# Draft Programmatic Environmental Impact Statement and National Historic Preservation Act Section 106 Consultation

West Los Angeles Medical Center Campus Proposed Master Plan for Improvements and Reconfiguration



U.S. DEPARTMENT OF VETERANS AFFAIRS

Greater Los Angeles Healthcare System (GLAHS)

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## **Acronyms**

Acronym	Definition
AARC	Average Annual Rate of Change
AB	Assembly Bill
ACHP	Advisory Council on Historic Preservation
ACLU	American Civil Liberties Union
ACM	Asbestos Containing Materials
ADT	Average Daily Traffic
AFB	Air Force Base
ANSI	American National Standards Institute
APE	Area of Potential Effect
APS	Alternative Planning Strategy
ARPA	Archaeological Resources Protection Act
ASHRAE	American Society of Heating, Refrigerating and Air-Conditioning Engineers
ASL	Above Sea Level
ASSE	American Society of Safety Engineers
ATCS	Adaptive Traffic Control System
ATSAC	Automated Traffic Surveillance and Control
AVTA	Antelope Valley Transit Authority
BBB	Big Blue Bus
BMT	Best Management Practices
BRT	Bus Rapid Transit
CAA	Clean Air Act
CAAA	CAA Amendments
CAAQS	California Ambient Air Quality Standards
CalEPA	California Environmental Protection Agency
CARB	California Air Resources Board
CBECS	Commercial Buildings Energy Consumption Survey
CCAP	Community Climate Action Plan
CCR	California Code of Regulations
CDFW	California Department of Fish and Wildlife
CDHS	California Department of Health Services
CEQ	Council on Environmental Quality
CEQA	California Environmental Quality Act
CERS	Community Engagement and Reintegration Service
CESA	California Endangered Species Act
CGP	Construction General Permit
CH <sub>4</sub>	Methane
CHRP	Campus Historic Resource Plan
CLC	Community Living Center
CMA	Critical Movement Analysis
CMP	Congestion Management Program
CNDDB	California Natural Diversity Database
CNEL	Community Noise Equivalent Level
CO	Carbon Monoxide
CO <sub>2</sub>	Carbon Dioxide
CPLA	Coastal Plain of Los Angeles
CRRC	Community Resource and Referral Center

Acronyms xv

Acronym	Definition				
CUP	Central Utility Plant				
CY	Calendar Year				
CZMA	Coastal Zone Management Act				
DIPE	Di-Isopropyl Ether				
DOF	Department of Finance				
DOT	U.S. Department of Transportation				
DPW	Department of Public Works				
DTSC	Department of Toxic Substances Control				
EA	Environmental Assessment				
EDR	Environmental Data Resources				
EIA	Energy Information Administration				
EIS	Environmental Impact Statement				
EISA	Energy Independence and Security Act of 2007				
EMS	Emergency Medical Services				
EO	Executive Order				
EPA	Environmental Protection Agency				
EPCRA	Emergency Planning and Community Right-to-Know Act				
ESCP	Erosion and Sediment Control Plan				
ETBE	Ethyl Tert-Butyl Ether				
EUI	Energy Use Intensity				
EUL	Enhanced Use Lease				
FCD	Flood Control District				
FEMA	Federal Emergency Management Agency				
FEMP	Federal Energy Management Program				
FMS	Facilities Management Service				
FPO	Federal Preservation Officer				
FTA	Federal Transit Administration				
FY	Fiscal Year				
GHG	Greenhouse Gases				
GLAHS	Greater Los Angeles Healthcare System				
GPD	Grant and Per Diem				
GSF	Gross Square Feet				
HAP	Hazardous Air Pollutant				
HARP2 RAST	Hotspot Analysis and Reporting Program version 2 Risk Assessment				
	Standalone Tool				
HASP	Health and Safety Plan				
HCF	Hundred Cubic Feet				
HCM	Highway Capacity Manual				
HEPA	High-Efficiency Particulate Arrestance				
HI	Hazard Index				
HMIS	Hazardous Materials Inventory Statements				
HMMP	Hazardous Materials Management Plan				
HOV	High Occupancy Vehicle				
HP	Horsepower				
HRA	Health Risk Assessment				
HRSD	Health Services Research and Development				
HSWA	Hazardous and Solid Waste Amendments				
HUD	Housing and Urban Development				

Acronyms xvi

Acronym	Definition
HUD-VASH	Housing and Urban Development - VA Supportive Housing
HVAC	Heating, Ventilation, and Air Conditioning
IBC	International Building Code
IECC	International Energy Conservation Code
IPCC	Intergovernmental Panel on Climate Change
IT	Information Technology
ITE	Institute of Transportation Engineers
LADOT	City of Los Angeles Department of Transportation
LADWP	Los Angeles Department of Water and Power
LAFD	Los Angeles Fire Department
LAHSA	Los Angeles Homeless Services Authority
LAMC	Los Angeles Municipal Code
LANC	Los Angeles National Cemetery
LAPD	City of Los Angeles Police Department
LASAN	Los Angeles Sanitation
LAUSD	Los Angeles Unified School District
LBP	Lead-Based Paint
LED	Light-Emitting Diode
LESH	Limited English-speaking Household
LID	Low Impact Development
LOS	Level of Service
LPA	Locally Preferred Alternative
LPG	Liquified Petroleum Gas
MHI	Median Household Income
MMBTU	Million British Thermal Units
MML	Master Materials License
MMTCO <sub>2</sub> e	Million Metric Tons of CO <sub>2</sub> Equivalents
MOA	Memorandum of Agreement
MRZ	Mineral Resource Zones
MS <sub>4</sub>	Municipal Separate Storm Sewer System
MSA	Metropolitan Statistical Area
MTBE	Methyl-Tert-Butyl Ether
MTCO <sub>2</sub> e	Metric Tons of Carbon Dioxide Equivalents
MW	Megawatts
MWMA	Medical Waste Management Act
N <sub>2</sub> O	Nitrous Oxide
NAAQS	National Ambient Air Quality Standards
NAGPRA	Native American Graves Protection and Repatriation Act
NCA	National Cemetery Administration
NCAA	National Collegiate Athletic Association
NEHRP	National Earthquake Hazards Reduction Program
NEPA	National Environmental Policy Act
NFPA	National Fire Protection Association
NHDVS	National Home for Disabled Volunteer Soldiers
NHPA	National Historic Preservation Act of 1966
NO	Nitrogen Oxide
NO <sub>2</sub>	Nitrogen Dioxide
NOAA	National Oceanic and Atmospheric Administration

Acronyms xvii

Acronym Definition					
NOI	Notice of Intent				
NPDES	National Pollutant Discharge Elimination System				
NPPA	Native Plant Protection Act				
NRC	Nuclear Regulatory Commission				
NRCS	Natural Resources Conservation Service				
NRHD	National Register Historic District				
NRHP	National Register of Historic Places				
NWI	National Wetland Inventory				
O&M	Operations and Maintenance				
OEHHA	Office of Environmental Health Hazard Assessment				
OHP	Office of Historic Preservation				
OI&T	Office of Information and Technology				
OSHA	Occupational Safety and Health Administration				
OSP	Office of Emergency Management and Resilience				
P&D	Planning and Design				
PA	Programmatic Agreement				
PATH	People Assisting the Homeless				
PEIR	Programmatic Environmental Impact Report				
PEIS	Preliminary Environmental Impact Statement				
PET	Positron Emission Tomography				
PIT	Point In Time				
PM	Particulate Matter				
PPE	Personal Protective Equipment				
PPH	Pounds Per Hour				
PPV	Peak Particle Velocity				
PTSD	Post-Traumatic Stress Disorder				
PV	Photovoltaic				
RCP	Reinforced Concrete Pipe				
RCNM	Roadway Construction Noise Model				
REL	Reference Exposure Level				
RMS	Root-Mean-Square				
ROD	Record of Decision				
ROG	Reactive Organic Gases				
RTP	Regional Transportation Plan				
RWQCB	Regional Water Quality Control Boards				
SB	Senate Bill				
SCAG	Southern California Association of Governments				
SCAQMD	South Coast Air Quality Management District				
SCE	Southern California Edison				
SCS	Sustainable Communities Strategy				
SF <sub>6</sub>	Sulphur Hexafluoride				
SHPO	State Historic Preservation Office				
SIOH	Supervision, Inspection, and Overhead				
SIP	State Implementation Plan				
SNAP	Supplemental Nutrition Assistance Program				
SO <sub>2</sub>	Sulfur Dioxide				
SOI	Secretary of Interior				
SSHO	Site Safety and Health Officer				
	The state of the s				

Acronyms xviii

Acronym	Definition			
SSPP	Sustainability Performance Plan			
SWPPP	Stormwater Pollution Prevention Plan			
SWRCB	State Water Resources Control Board			
TAC	Toxic Air Contaminant			
TAME	Tert-Amyl Methyl Ether			
TBA	Tert-Butyl Alcohol			
TDM	Transportation Demand Management			
TIA	Transportation Impact Analysis			
TIMP	Transportation Improvement and Mitigation Specific Plan			
TMDL	Total Maximum Daily Loads			
TPH	Total Petroleum Hydrocarbons			
TPHG	Total Petroleum Hydrocarbons as Gasoline			
TSM	Transportation Systems Management			
UCLA	University of California at Los Angeles			
US	United States			
USACE	United States Army Corps of Engineers			
USC	University of Southern California			
U.S.C.	United States Code			
USFWS	United States Fish and Wildlife Service			
USGS	United States Geological Survey			
USPS	United States Postal Service			
UST	Underground Storage Tank			
VA	U.S. Department of Veterans Affairs			
V/C	Volume-to-Capacity ratio			
VAPD	VA Police Department			
VHA	Veterans Health Administration			
VMT	Vehicle Miles Traveled			
VOC	Volatile Organic Compound			
WATCH	Worksite Area Traffic Control Handbook			
WLA	West Los Angeles			
WLA NHRD	West Los Angeles National Historic Register District			

Acronyms xix

### **Executive Summary**

As required by the National Environmental Policy Act (NEPA), the U.S. Department of Veterans Affairs (VA) has developed a Programmatic Environmental Impact Statement (PEIS) to identify, analyze, and document the potential environmental, cultural, and socioeconomic impacts associated with the implementation of the *Draft Master Plan for the Greater Los Angeles Campus*. The West Los Angeles (WLA) Campus, one of VA's largest health care facilities, is an integral part of the Greater Los Angeles Healthcare System, which serves more than 80,000 Veterans annually from the five counties of Kern, Los Angeles, San Luis Obispo, Santa Barbara, and Ventura.

This PEIS integrates NEPA review with requirements for consultation on effects to historic properties under Section 106 of the National Historic Preservation Act. This integrated process complies with the regulations of 36 Code of Federal Regulations (CFR) Part 800 and published federal guidance for substituting the Section 106 review for the NEPA process.

The *purpose* of VA's Proposed Action is to revitalize the WLA Campus to provide a safe and vibrant Veteran-centric community where Veterans in the greater Los Angeles area can access improved and expanded services. The Proposed Action is particularly geared towards improving VA services for vulnerable Veterans populations, including Veterans who are homeless, aging, female, or have significant medical needs. The intent is not only for the WLA Campus to be a 21st century health care facility and a home, but also to attract all Veterans and assist them with their reintegration into the community.

The Proposed Action is *needed* because the existing campus infrastructure is not sufficient to serve the current and future needs of the regional Veteran population, including health care, homeless housing, and supportive services. Many of the older campus facilities require significant repair or renovation, and as a result have become vacant or underutilized. Also, many of the older buildings do not meet current seismic, accessibility, or life safety standards. Additionally, the campus is not currently equipped to provide supportive housing or other related services.

This PEIS analyzes five alternatives for redevelopment of the WLA Campus, including a No Action alternative, as follows:

- Alternative A: Renovation of select existing buildings for same or new functions; up to 821 new units of supportive housing for homeless Veterans created.
- Alternative B: Demolition of select existing buildings and relocation of existing tenants and services to other remaining buildings; no new units of supportive housing for homeless Veterans created.
- Alternative C: Demolition and replacement of select existing buildings, and additional construction of new buildings on open land; up to 1,622 new units of supportive housing for homeless Veterans created.
- Alternative D: Renovation or demolition/replacement of select existing buildings, and additional
  construction of new buildings on open land; up to 1,622 new units of supportive housing for
  homeless Veterans created.

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• Alternative E: No Action, or the "status quo" alternative.

Table ES-1 summarizes the impacts of each alternative across resource areas. Where VA has identified appropriate mitigation measures to be implemented, those measures are identified in the summary table, regardless of whether the impact identified is major or significant. Chapter 6 of this PEIS provides the full description of each mitigation measure.

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**Table ES-1. Summary of Impacts and Mitigation Measures** 

RESOURCE AREA	ENVIRONMENTAL CONSEQUENCES					
	Alternative A Alternative B		Alternative C Alternative D		Alternative E	
AESTHETICS						
Construction: Settings and Landscapes; Buildings and Architecture; Light Pollution	Minor impact	Minor impact	Minor impact	Minor impact	No impact	
Operations: Settings and Landscape	No impact	No impact	Minor impact with mitigation	Minor impact with mitigation	No impact	
			Mitigation Measure AES-2: Maintain Vegetation Buffers	Mitigation Measure AES-2: Maintain Vegetation Buffers		
Operations: Building and Architecture	Minor impact	Moderate impact	Moderate impact with mitigation	Minor impact with mitigation	Minor impact	
	Mitigation Measure HIST- 1: Apply SOI Standards and CHRP		Mitigation Measure HIST- 1: Apply SOI Standards and CHRP	Mitigation Measure HIST- 1: Apply SOI Standards and CHRP		
Operations: Light Pollution	Minor impact	No impact	Minor with mitigation	Minor with mitigation	No impact	
	Mitigation Measure AES-1: Minimize Light Trespass		Mitigation Measure AES-1: Minimize Light Trespass	Mitigation Measure AES-1: Minimize Light Trespass		
AIR EMISSIONS						
Construction: Criteria Pollutants	Minor impact	Minor impact	Major impact (significant)	Potentially major impact	No impact	
		Mitigation Measure AQ-1: Apply Dust Control Measures	Mitigation Measure AQ-1: Apply Dust Control Measures	Mitigation Measure AQ-1: Apply Dust Control Measures		
			Mitigation Measure AQ-2: Reduce Heavy Equipment Emissions	Mitigation Measure AQ-2: Reduce Heavy Equipment Emissions		
Construction: TACs	Minor impact	Minor impact	Minor impact with mitigation (significant)	Minor impact with mitigation	No impact	
			Mitigation Measure AQ-2: Reduce Heavy Equipment Emissions	Mitigation Measure AQ-2: Reduce Heavy Equipment Emissions		
Construction: GHG emissions	Minor impact	Minor impact	Minor impact	Minor impact	No impact	

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RESOURCE AREA	URCE AREA ENVIRONMENTAL CONSEQUENCES				
	Alternative A	Alternative B	Alternative C	Alternative D	Alternative E
Construction: Odors	No impact	Minor impact	Minor impact	Minor impact	No impact
Operations: Criteria Pollutants	No impact	Minor impact	Major impact (significant)	Potentially major impact	No impact
		Mitigation Measure AQ-1:	Mitigation Measure TT-1:	Mitigation Measure TT-1:	
		Apply Dust Control	Implement Transportation	Implement Transportation	
		Measures	Demand Management	Demand Management	
			Program	Program	
			Mitigation Measure UT-1:	Mitigation Measure UT-1:	
			Apply Sustainable Building	Apply Sustainable Building	
			Design Standards	Design Standards	
Operations: TACs	No impact	No impact	No impact	No impact	No impact
Operations: GHG emissions	No impact	Minor impact	Minor impact	Minor impact	No impact
			Mitigation Measure TT-1:	Mitigation Measure TT-1:	
			Implement Transportation	Implement Transportation	
			Demand Management	Demand Management	
			Program	Program	
			Mitigation Measure UT-1:	Mitigation Measure UT-1:	
			Apply Sustainable Building	Apply Sustainable Building	
			Design Standards	Design Standards	
Operations: Odors	No impact	No impact	No impact	No impact	No impact
CULTURAL RESOURCES, INCLUDING HISTORIC PROPERTIES					
Construction and Operations: Historic	Potentially adverse effect	Significant adverse effect	Significant adverse effect	Potentially adverse effect	Potentially adverse effect
Properties	Mitigation Measure HIST-	Mitigation Measure HIST-	Mitigation Measure HIST-	Mitigation Measure HIST-	
Troperties	1: Apply SOI Standards	1: Apply SOI Standards	1: Apply SOI Standards	1: Apply SOI Standards	
	and CHRP	and CHRP	and CHRP	and CHRP	
Construction and Operations: Archeological	Potentially adverse effect	Potentially adverse effect	Potentially adverse effect	Potentially adverse effect	No adverse effect
- ,	Mitigation Measure HIST-	Mitigation Measure HIST-	Mitigation Measure HIST-	Mitigation Measure HIST-	
	2: Implement Archeological	2: Implement Archeological	2: Implement Archeological	2: Implement Archeological	
	Measures	Measures	Measures	Measures	
	Mitigation Measure HIST-	Mitigation Measure HIST-	Mitigation Measure HIST-	Mitigation Measure HIST-	
	3: Implement Measures for	3: Implement Measures for	3: Implement Measures for	3: Implement Measures for	
	Discovery of Human	Discovery of Human	Discovery of Human	Discovery of Human	
	Remains	Remains	Remains	Remains	

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RESOURCE AREA	ENVIRONMENTAL CONSEQUENCES					
	Alternative A	Alternative B	Alternative C	Alternative D	Alternative E	
GEOLOGY AND SOILS						
Construction and Operations: Geological hazards)	Beneficial	Beneficial	Beneficial	Beneficial	No impact	
Construction and Operations: Oil Reserves, Fossils/ Paleontological	No impact	No impact	No impact	No impact	No impact	
Construction: Soils	Minor impact  Mitigation Measure GEO-1:	Minor impact with mitigation	Minor impact with mitigation	Minor impact with mitigation	No impact	
	Apply Erosion Control Measures	Mitigation Measure GEO-1: Apply Erosion Control Measures	Mitigation Measure GEO-1: Apply Erosion Control Measures	Mitigation Measure GEO-1: Apply Erosion Control Measures		
Operation: Soils	No impact	No impact	No impact	No impact	No impact	
HYDROLOGY AND WATER QUALITY						
Construction	Minor impact	Minor impact with mitigation	Minor impact with mitigation	Minor impact with mitigation	No impact	
	Mitigation Measure GEO-1: Apply Erosion Control Measures	Mitigation Measure WQ-1: Implement Stormwater Management for Construction Activities	Mitigation Measure WQ-1: Implement Stormwater Management for Construction Activities	Mitigation Measure WQ-1: Implement Stormwater Management for Construction Activities		
		Mitigation Measure GEO-1: Apply Erosion Control Measures	Mitigation Measure WQ-2: Use Low Impact Development (LID) Techniques	Mitigation Measure WQ-2: Use Low Impact Development (LID) Techniques		
			Mitigation Measure GEO-1: Apply Erosion Control Measures	Mitigation Measure GEO-1: Apply Erosion Control Measures		
Operations	No impact	No impact	No impact	No impact	No impact	
WILDLIFE AND HABITAT						
Construction/Operations: Federally or State-listed species	No effect	No effect	No effect	No effect	No effect	

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RESOURCE AREA	ENVIRONMENTAL CONSEQUENCES					
	Alternative A	Alternative B	Alternative C	Alternative D	Alternative E	
Construction: Habitat	Minor impact	Minor impact with	Minor impact with	Minor impact with	No impact	
		mitigation	mitigation	mitigation		
	Mitigation Measure WH-3:					
	Revegetate or Plant with	Mitigation Measure WH-1:	Mitigation Measure WH-1:	Mitigation Measure WH-1:		
	Native Trees and	Apply Migratory Bird	Apply Migratory Bird	Apply Migratory Bird		
	Vegetation	Impact Reduction	Impact Reduction	Impact Reduction		
		Measures	Measures	Measures		
		Mitigation Measure WH-2:	Mitigation Measure WH-2:	Mitigation Measure WH-2:		
		Protect Existing Trees and	Protect Existing Trees and	Protect Existing Trees and		
		Vegetation	Vegetation	Vegetation		
		Mitigation Measure WH-3:	Mitigation Measure WH-3:	Mitigation Measure WH-3:		
		Revegetate or Plant with	Revegetate or Plant with	Revegetate or Plant with		
		Native Trees and	Native Trees and	Native Trees and		
		Vegetation	Vegetation 1	Vegetation		
Operations: Habitat	No impact	No impact	No impact	No impact	No impact	
NOISE						
Construction	Minor to moderate impact with mitigation	Potentially major impact	Potentially major impact	Potentially major impact	No impact	
	_	NOI-1: Minimize Noise	NOI-1: Minimize Noise	NOI-1: Minimize Noise		
	NOI-1: Minimize Noise	during Construction	during Construction	during Construction		
	during Construction	Activities	Activities	Activities		
	Activities					
		NOI-2: Monitor	NOI-2: Monitor	NOI-2: Monitor		
		Construction Noise and	Construction Noise and	Construction Noise and		
		Vibration	Vibration	Vibration		
Operations	Minor impacts	Minor impacts	Minor impacts	Minor impacts	No impact	
LAND USE						
Construction	No impact	No impact	No impact	No impact	No impact	
Operations	No impact	No impact	No impact	No impact	No impact	
FLOODPLAINS,						
WETLANDS, AND						
COASTAL ZONE						
Construction/Operations	No impact	No impact	No impact	No impact	No impact	
SOCIOECONOMICS						
Construction: Economic	Beneficial	Beneficial	Beneficial	Beneficial	No impact	
Output						
Construction:	No impact	No impact	No impact	No impact	No impact	
Population/housing						

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RESOURCE AREA	ENVIRONMENTAL CONSEQUENCES						
	Alternative A	Alternative B	Alternative C	Alternative D	Alternative E		
Construction: Social	Minor impact with	Minor to moderate impact	Minor to moderate impact	Minor to moderate impact	No impact		
patterns	mitigation	with mitigation	with mitigation	with mitigation			
	All valous at mitigation	All males so not maissing time	All males sent maiting tions	All malay and mailing tion			
	All relevant mitigation	All relevant mitigation	All relevant mitigation	All relevant mitigation			
0	measures for noise, traffic	measures for noise, traffic	measures for noise, traffic	measures for noise, traffic	N.C. and Same and		
Operations	Beneficial	Major impact	Beneficial	Beneficial	Minor impact		
COMMUNITY SERVICES					N		
Construction	Minor impact with	Minor impact with	Minor impact with	Minor impact with	No impact		
	mitigation	mitigation	mitigation	mitigation			
	Mitigation Measure CS-1:	Mitigation Measure CS-1:	Mitigation Measure CS-1:	Mitigation Measure CS-1:			
	Develop Construction	Develop Construction	Develop Construction	Develop Construction			
	Phasing and Sequencing	Phasing and Sequencing	Phasing and Sequencing	Phasing and Sequencing			
	Plan	Plan	Plan	Plan			
	Mitigation Measure CS-2:	Mitigation Measure CS-2:	Mitigation Measure CS-2:	Mitigation Measure CS-2:			
	Manage Worker Safety,	Manage Worker Safety,	Manage Worker Safety,	Manage Worker Safety,			
	Fire, and Security Risks at	Fire, and Security Risks at	Fire, and Security Risks at	Fire, and Security Risks at			
	Construction Sites	Construction Sites	Construction Sites	Construction Sites			
	Mitigation Measure CS-3:	Mitigation Measure CS-3:	Mitigation Measure CS-3:	Mitigation Measure CS-3:			
	Provide WLA Employee	Provide WLA Employee	Provide WLA Employee	Provide WLA Employee			
	Training	Training	Training	Training			
	Mitimatian Manager CC 4	Mitigration Managema CC 4	Mitigation Managema CC 4	Mitigation Massure CC 4			
	Mitigation Measure CS-4:	Mitigation Measure CS-4:	Mitigation Measure CS-4:	Mitigation Measure CS-4:			
	Develop Construction	Develop Construction	Develop Construction	Develop Construction			
Operations	Communications Plan  No impact	Communications Plan  Moderate impact (for	Communications Plan  Moderate impact (for	Communications Plan  Moderate impact (for	No impact		
Operations	No impact	medical), no impact for all	parks), no impact for all	parks), no impact for all	No impact		
		other services	other services	other services			
SOLID WASTE AND		Other Services	Other Services	Other Services			
HAZARDOUS MATERIALS	3						
Construction	Minor impact	Minor impact	Minor impact	Minor impact	No impact		
	Mitigation Measure	Mitigation Measure	Mitigation Measure	Mitigation Measure			
	WASTE-1: Require	WASTE-1: Require	WASTE-1: Require	WASTE-1: Require			
	Construction Waste	Construction Waste	Construction Waste	Construction Waste			
Operations	-				No impact		
Operations	Management Plans No impact	Management Plans No impact	Management Plans No impact	Management Plans No impact	No impact		

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RESOURCE AREA	ENVIRONMENTAL CONSEQUENCES						
	Alternative A	Alternative B	Alternative C	Alternative D	Alternative E		
TRANSPORTATION AND TRAFFIC							
Construction	Potentially major impact	Potentially major impact	Potentially major impact	Potentially major impact	No impact		
	Mitigation Measure TT-4:	Mitigation Measure TT-4:	Mitigation Measure TT-4:	Mitigation Measure TT-4:			
	Implement Construction	Implement Construction	Implement Construction	Implement Construction			
	Management Plan	Management Plan	Management Plan	Management Plan			
Operations	Minor impact	No impact	Minor impact with mitigation	Minor impact with mitigation	No impact		
	Mitigation Measure TT-3:			Mitigation Measure TT-1:			
	Implement Circulation Plan		Mitigation Measure TT-1:	Implement Transportation			
			Implement Transportation	Demand Management			
			Demand Management (TDM) Plan	(TDM) Plan			
				Mitigation Measure TT-2:			
			Mitigation Measure TT-2:	Implement Transportation			
			Implement Transportation	Systems Management			
			Systems Management (TSM) Plan	(TSM) Plan			
				Mitigation Measure TT-3:			
			Mitigation Measure TT-3:	Implement Circulation Plan			
			Implement Circulation Plan				
UTILITIES	National Comment with a Stimut Committee	Marine and an artificial state of the second second	Madanta Sanasta Mi	Mandanata Sana at 1996	No format		
Construction	Minor impact with mitigation	Minor impact with mitigation	Moderate impact with mitigation	Moderate impact with mitigation	No impact		
	Mitigation Measure UT-2:	Mitigation Measure UT-2:					
	Coordinate with Utility	Coordinate with Utility	Mitigation Measure UT-2:	Mitigation Measure UT-2:			
	Providers	Providers	Coordinate with Utility	Coordinate with Utility			
Operations	Minor import with	Deneficial	Providers Minor import with	Providers Minor impact with	No import		
Operations	Minor impact with mitigation	Beneficial	Minor impact with mitigation	Minor impact with mitigation	No impact		
	minganon		miligation	miligation			
	Mitigation Measure UT-1:		Mitigation Measure UT-1:	Mitigation Measure UT-1:			
	Apply Sustainable Building		Apply Sustainable Building	Apply Sustainable Building			
	Design Standards		Design Standards	Design Standards			
			Mitigation Measure WQ-2:				
			Use Low Impact				
			Development (LID)				
			Techniques				

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RESOURCE AREA	ENVIRONMENTAL CONSEQUENCES					
	Alternative A	Alternative B	Alternative C	Alternative D	Alternative E	
ENVIRONMENTAL JUSTICE						
Construction	Minor to moderate impact with mitigation	Minor to moderate impact with mitigation	Minor to moderate impact with mitigation	Minor to moderate impact with mitigation	No impact	
	All relevant mitigation measures for air quality, noise, community services, traffic	All relevant mitigation measures for air quality, noise, community services, traffic	All relevant mitigation measures for air quality, noise, community services, traffic	All relevant mitigation measures for air quality, noise, community services, traffic		
Operations	No impact	No impact	No impact	No impact	No impact	
CUMULATIVE IMPACTS*						
Construction/Operation: Geology and Soils; Hydrology and Water Quality; Wildlife and Habitat; Land Use, Floodplains, Wetlands and Coastal Zone; Solid Waste and Hazardous	No cumulative impact	No cumulative impact	No cumulative impact	No cumulative impact	No cumulative impact	
Materials Construction: Aesthetics; Cultural Resources, Including Historic Properties; Socioeconomics; Communty Services; Utilities; Environmental Justice	Minor cumulative impact	Minor cumulative impact	Minor cumulative impact	Minor cumulative impact	Minor cumulative impac	
Construction: Air Quality; Noise and Vibration; Transportation and Traffic	Moderate cumulative impact	Moderate cumulative impact	Moderate cumulative impact	Moderate cumulative impact	Moderate cumulative impact	
Operations: Aesthetics; Air Quality; Cultural Resources, including Historic Properties	No cumulative impact	No cumulative impact	No cumulative impact	No cumulative impact	No cumulative impact	
Operations: Noise and Vibration; Transportation and Traffic; Utilities	Minor cumulative impact	Minor cumulative impact	Minor cumulative impact	Minor cumulative impact	Minor cumulative impact	
Operations: Socioeconomics; Environmental Justice	Beneficial	Beneficial	Beneficial	Beneficial	Beneficial	

<sup>\*</sup>Mitigation measures referenced in the individual resource areas and included in Chapter 6 of this PEIS would be applied for VA's Proposed Action activities to mitigate VA's contribution to cumulative impacts.

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#### 1 Introduction

In January 2016, the U.S. Department of Veterans Affairs (VA) announced the *Draft Master Plan for the Greater Los Angeles (GLA) Campus* (hereinafter referred to as the "Draft Master Plan") as a framework to assist VA in determining and implementing the most effective use of the West Los Angeles (WLA) Campus for Veterans, particularly for homeless Veterans. The WLA Campus is one of largest health care facilities in the VA system and provides a full range of medical services to Veterans, including a state-of-the-art hospital and ambulatory care, rehabilitation, residential care, permanent supportive housing, reintegration services, and long-term care. VA has prepared this Draft Programmatic Environmental Impact Statement (PEIS) to identify, analyze, and document the potential environmental, cultural, and socioeconomic impacts of the proposed improvements and alternatives for redevelopment of the WLA Campus as set forth in the Draft Master Plan. The proposed improvements and redevelopment constitute the Proposed Action.

This Draft PEIS is conducted in accordance with the National Environmental Policy Act (NEPA) (42 United States Code [U.S.C.] § 4321 et seq.); the Council on Environmental Quality's (CEQ) Regulations for Implementing the Procedural Provisions of the National Environmental Policy Act (40 Code of Federal Regulations [CFR] Parts 1500-1508); VA's NEPA regulations, Environmental Effects of the Department of Veterans Affairs Actions (38 CFR Part 26); and VA's NEPA Interim Guidance for Projects. Pursuant to 36 CFR § 800.8(c) and VA Directive 7545, Cultural Resource Management, VA is also using this PEIS process to comply with requirements of Section 106 of the National Historic Preservation Act (NHPA) (54 U.S.C. § 306101 et seq.) in lieu of the procedures set forth in 36 CFR Part 800.

This Draft PEIS studies four alternative scenarios for redevelopment of the WLA Campus in response to the Draft Master Plan. In addition, the PEIS studies a no action alternative, which is required by NEPA and provides a baseline for comparing potential impacts from the action alternatives.

### 1.1 Greater Los Angeles Healthcare System and the WLA Campus

The WLA Campus is an integral part of the Greater Los Angeles Healthcare System (GLAHS) (Figure 1.1-1). GLAHS serves more than 80,000 Veterans annually who reside throughout the five counties of Kern, Los Angeles, San Luis Obispo, Santa Barbara, and Ventura. In total, there are approximately 1.4 million Veterans in the GLAHS service area (Los Angeles Homeless Services Authority, 2017).

The WLA Campus is located at the intersection of Sepulveda Boulevard, the San Diego Freeway (Interstate 405 or I-405), and Wilshire Boulevard in Los Angeles, California, and shares several borders with the densely urbanized Brentwood and Westwood neighborhoods. The WLA Campus provides a full range of medical services to eligible Veterans, including state-of-the-art inpatient hospital care and outpatient care, rehabilitation services, residential care, supportive housing, and long-term care services.

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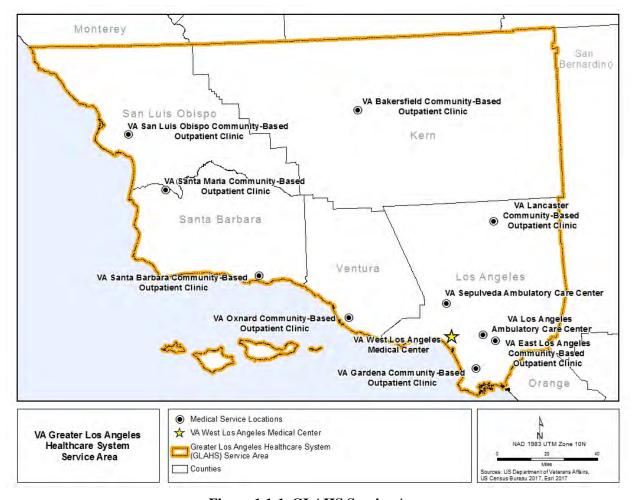


Figure 1.1-1. GLAHS Service Area

### 1.2 Services and Partnerships

The WLA Campus provides broad services to Veterans, including the following:

- Audiology
- Beds Assisted Living/Nursing Home
- Beds Intensive Care Unit
- Beds Medical/Surgical
- Community Engagement and Reintegration Service (CERS)
- Behavioral Health Dual Diagnosis
- Behavioral Health Mental Health Clinic
- Behavioral Health Neuropsychology
- Behavioral Health Outpatient Clinic
- Behavioral Health Psychiatry
- Behavioral Health Psychology

- Behavioral Health Post-Traumatic Stress Disorder (PTSD)
- Behavioral Health Social Work
- Behavioral Health Substance Abuse
- Canteen Service
- Cardiology
- Chaplain/Chapel
- Clinical Research
- Dental
- Diagnostic Imaging Nuclear Medicine
- Diagnostic Imaging Radiation Therapy
- Diagnostic Imaging Radiology
- Dialysis
- Digestive/Endoscopy

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- Education
- Eye Clinic
- Geriatric Psychiatry
- Home Based Health Care
- Inpatient Medical Care
- Long-term Care Community Living Center (CLC)
- Long-term Care Domiciliary
- Medical Services Administration
- Nutrition/Food
- Pathology
- Pharmacy
- Physical Therapy
- Police/Security
- Polytrauma Clinic
- Post Deployment Clinic
- Primary Care
- Prosthetics
- Recreational Therapy
- Rehab Medicine
- Residential Permanent Supportive Housing
- Residential Transitional Housing

- Residential Veteran Family Lodging (Fisher House)
- Residential Rehabilitation Treatment Program
- Specialty Care Electroencephalography/Neurology
- Specialty Care Infection Disease
- Specialty Care Orthopedics
- Specialty Care Palliative Care
- Specialty Care Podiatry
- Specialty Care Pulmonary
- Specialty Care Surgical Specialty Clinics
- Specialty Care Urology
- Surgical
- Urgent/Emergency Care
- Veteran Services Center of Excellence
- Veteran Services Legal Clinic
- Veteran Services Family Wellness Clinic
- Veteran Transportation System

In addition, VA works with various federal, state, and local affiliates to help create a community best fit to serve the needs of Veterans on the WLA Campus, as follows:

- Academic Affiliates: The WLA Campus serves as a major training site for medical residencies sponsored by the University of California Los Angeles (UCLA) David Geffen School of Medicine, the University of Southern California (USC) School of Medicine, and Cedars Sinai, as well as more than 45 colleges, universities, and vocational schools in 17 different medical, nursing, paramedical, and administrative programs. More than 500 University residents, interns, and students are trained in the GLAHS each year. GLAHS sponsors 16 medical residencies and numerous associated health residencies and internships in dentistry, podiatry, optometry, pharmacy, clinical psychology, social work, and dietetics.
- Military Bases/Units: Los Angeles Air Force Base (AFB), Port Hueneme, 146th Air National Guard, 311th Expeditionary Sustainment Command, and Edwards AFB use the WLA Campus for ceremonies during all Veteran-focused holidays (Veterans Day and Memorial Day).
- Regional Collaboratives: The Los Angeles Veterans Collaborative, the Ventura County Military Collaborative, the Kern County Veterans Collaborative, and the San Luis Obispo Veterans Services Collaborative form a network of community partners and Veteran organizations committed to reintegrating Service members into civilian life.

Chapter 1: Introduction

Community Engagement and Reintegration Service: Los Angeles County, City of Los
Angeles, Los Angeles Continuum of Care Lead, Los Angeles Homeless Services Authority, New
Directions for Veterans, and Step Up on Second all collaborate with VA to coordinate housing
and mental health services for homeless Veterans.

#### 1.3 Facilities

The 388-acre WLA Campus currently contains 95 buildings totaling approximately 2.82 million square feet (ft²), and land features that include gardens, recreational areas, surface parking lots, and a network of private roadways and walkways (Figure 1.3-1). The property is bisected by Wilshire Boulevard, forming a visual boundary that divides the facility into a North Campus and a South Campus.

The WLA Campus has a broad range of facility types that include:

- Medical Facilities: Located throughout the WLA Campus, these buildings provide space for outpatient, rehabilitation, vision, dental, mental health, imaging, and other services. The main Hospital is located in Building 500 on the South Campus and constructed from 1972 to 1976, Building 500 serves as the primary medical service facility and has approximately 922,000 ft² with six stories plus a finished basement level.
- **Supportive** (**Residential**) **Housing**: Located throughout the central and northern portions of the WLA Campus, supportive housing units are a mix of multi-unit buildings for permanent supportive housing, short-term transitional housing, and domiciliary services.
- **Staff Housing**: Located in the southwestern portion of the WLA Campus, staff housing consists of five single quarters buildings and two duplex quarters buildings.
- **Research Facilities**: Clinical research space and multiple laboratories are located in the central and southern portions of the WLA Campus.
- **VA Police**: VA Police Headquarters is located in the central area of the WLA Campus, with satellite facilities throughout the WLA Campus.
- Administrative Offices: Located in the central portion of the WLA Campus, multiple buildings
  are utilized by VA staff to provide administrative services for VA and the WLA Campus. These
  administrative buildings include services to include human resources, engineering, environmental
  management, fiscal, and legal.
- Engineering and Maintenance Buildings: Located primarily on the eastern side of the North Campus, multiple facilities are used for site maintenance, engineering offices, central utility plant, steam generation plant, chiller plant, plumbing and welding shops, paint shops, vehicle maintenance shops, fueling, and storage areas.
- Gardens and Open Space: Various gardens and lawns are located throughout the WLA Campus, including a Japanese Garden with several koi ponds, a rose garden, a historic palm grove, and large landscaped open space areas.

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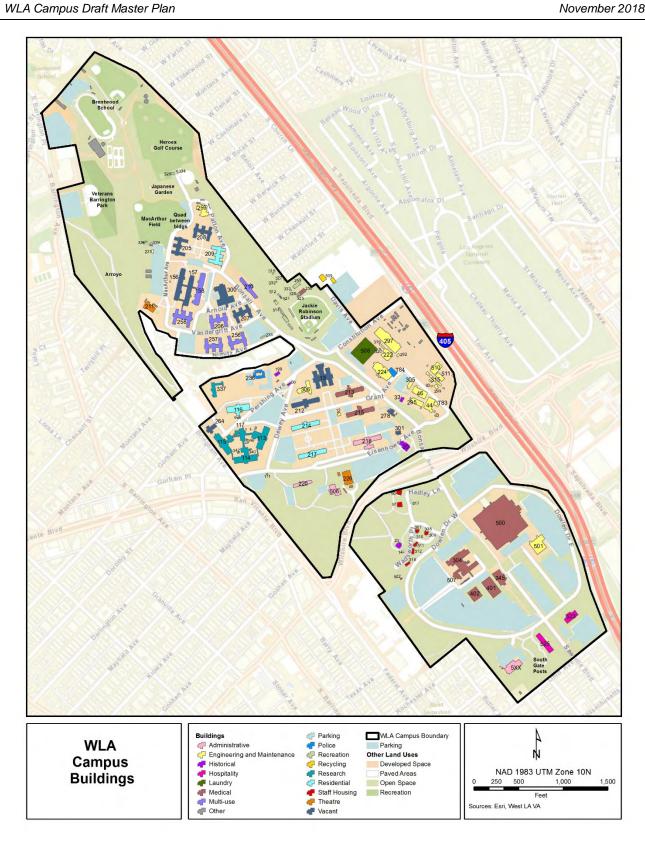


Figure 1.3-1. WLA Campus Facilities

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- Laundry: Located on the northeastern side of the WLA Campus, a state-of-the-art commercial laundry provides all laundry services for WLA Campus operations.
- Recycling Facility: Located on land transferred to the National Cemetery Administration (NCA) on the eastern side of the North Campus, the recycling facility and yard provide storage and logistical support for the recycling program related to WLA Campus operations. Replacement and relocation of the recycling facility is included as part of the Proposed Action; the future recycling facility is proposed to be relocated near engineering operations.

The WLA Campus also has land use agreements with several entities as follows:

- **Heroes Golf Course**: Located in the northeastern area of the North Campus, the Heroes Golf Course is a nine-hole golf course with 14 acres, a clubhouse, and a small storage structure.
- **Veterans Barrington Park**: Located in the northwest portion of the North Campus, this park is operated by the City of Los Angeles. The park consists of two baseball fields, open grassy areas, and a dog park covering approximately 12 acres.
- **Jackie Robinson Stadium**: Located on the eastern side of the North Campus, this 1,250-seat stadium includes a batting/training facility and related administrative-support structures covering approximately 10 acres. Constructed in 1981, the stadium is utilized in conjunction with the UCLA Bruins baseball team.
- **Brentwood School Recreational Facilities**: Located in 22 acres in the northwestern part of the North Campus, the school facilities include an aquatics center, baseball fields, football field, tennis courts, indoor recreation facility, and soccer fields.
- Oil Production Site: Located on the eastern side of the North Campus, an oil production site with 11 active wells is operated by Breitburn Operating LP (Breitburn) and covers approximately three acres.

In addition to the facilities described above, there are two Veterans-focused facilities immediately adjacent to the WLA Campus. These facilities are not within the scope of the Proposed Action analyzed in this PEIS:

- Los Angeles National Cemetery (LANC): Located at the intersection of South Sepulveda and
  Wilshire Boulevard, the LANC was established in 1889 as part of the National Home for
  Disabled Volunteer Soldiers (NHDVS) Pacific Branch and contains over 85,000 interments of
  Veterans and their dependents. NCA controls this 114-acre cemetery and is currently
  constructing a six-acre columbarium on the eastern side of the WLA Campus.
- California Department of Veterans Affairs (CalVet) facility: The CalVet Veterans Home of California—West Los Angeles is located at 11500 Nimitz Avenue, along the western edge of the WLA Campus, just north of Wilshire Boulevard. This 350,000 ft², four-floor structure acts as a transitional housing and care facility for Veterans. The 396-bed care facility provides residential care (assisted living) for the elderly, 24-hour skilled nursing services, and a memory care unit.

## 1.4 Patients Served on WLA Campus

The WLA Medical Center provided medical care for 80,195 patients during fiscal year (FY) 2016. Of these patients, approximately 90 percent were male (72,204 patients) and approximately 10 percent were female (7,905 patients). Approximately 66 percent of all patients were over the age of 55, totaling 52,946 patients. Table 1.4-1 summarizes patient demographics at the WLA Medical Center for FY 2016. Approximately eight percent of the patients seeking treatment at the WLA Campus required assistance for mental, behavioral, and/or neurodevelopmental disorders. During FY 2016, approximately 11 percent of the total patients (9,268 unique patients) were treated for diseases of the respiratory system (U.S. Department of Veterans Affairs, 2017a).

Age Range	Female	Male	Unknown	Total
Age Less than 25	270	664	0	934
Age 25 to 34	2,015	7,782	0	9,797
Age 35 to 44	1,527	6,158	0	7,685
Age 45 to 54	1,489	7,344	0	8,833
Age 55 to 64	1,698	14,947	0	16,645
Age 65 to 74	558	21,941	0	22,499
Age 75 to 84	205	8,303	0	8,508
Age 85+	143	5,065	0	5,208
Age Unknown	0	0	86	86
Totals	7,905	72,204	86	80,195

Table 1.4-1. WLA Medical Center Patient Demographics (FY 2016)

The WLA Campus also is focused on providing services to address the health care and support needs of homeless Veterans. The WLA Community Resource and Referral Center (CRRC), also known as the Welcome Center, is housed in Building 257 and provides access to both VA and community services to help prevent or end Veterans homelessness. The Welcome Center is a collaboration with multi-agency, multidisciplinary programs, and supportive services that provide access to stable housing, health care, job development programs, and other VA and non-VA benefits. According to annual records, in 2017 the Welcome Center had 8,943 visits from 5,126 unique Veterans. Of these 5,126 unique Veterans, 1,766 Veterans were housed in a Grant and Per Diem Program (GPD) shelter either on WLA Campus or a community shelter off campus.

The WLA Campus also provides homeless Veterans with a variety of housing services. Currently, the WLA Campus has 544 beds utilized by on-campus homeless programs. These beds include:

- New Directions for Veterans has 42 short-term/emergency housing beds for Veterans in Building 257. Short-term housing in Building 257 lasts up 90 days.
- New Directions for Veterans has 152 transitional housing beds for Veterans in Building 116. Transitional housing in Building 116 lasts up to two years.
- Buildings 214 and 217 house the Domiciliary Residential Rehabilitation and Treatment Program, which provides a variety of residential treatment programs, with 296 transitional beds including 120 targeted to homeless Veterans (U.S. Department of Veterans Affairs, 2017b). Eighty-two of these beds are bridge beds, which are only available to Veterans who have a clear housing

transition plan, such as a signed lease for a unit that is not yet available (VA GLAHS CERS Staff, 2018).

• Building 209, which is run by the Step Up on Second program, has 54 permanent housing units for Veterans and one additional unit set-aside for a staff support person.

## 1.5 WLA Campus Employees

As of May 2018, VA employed 5,001 individuals at the WLA Campus with 4,761 full-time staff and 240 part-time staff. Staff are comprised of professionals in the following functional areas: administrative, hospital, ambulatory, mental health, residential lodging, permanent supportive housing, community living centers, research facilities, facilities maintenance, and support and logistics. The WLA Medical Center staffing includes 466 physicians, 1,116 nurses, and 258 physician assistants and nurse practitioners, as well as ancillary medical, housekeeping, administrative, police/security, engineering, and facilities management professionals (U.S. Department of Veterans Affairs, 2018a). In FY 2017, over 1,500 volunteers supported WLA employees, 500 of these volunteers are registered and badged on WLA Campus for continuous volunteering (Stewart, 2018). VA anticipates moderate increases to various staffing levels as residential units are added to the WLA Campus (i.e., over time as the objectives of the Draft Master Plan are implemented), and related medical, administration, and maintenance needs also increase.

## 1.6 Background on the Draft Master Plan

The WLA Campus has a long history of service to Veterans. First established in 1887 as a home for disabled Veterans on land donated to the United States, the campus evolved over the years to provide a full continuum of health services to Veterans, including medical care, residential mental services, and research. However, over time, medical uses were concentrated on the southern end of the campus, and the remaining property started to suffer from lack of investment and upkeep. Other non-Veteran focused commercial uses were introduced to the campus, resulting in a shift from the core and historical mission of the campus.

A lawsuit was brought forth by various stakeholders, including descendants of relatives of the original land donors, challenging the government's use of the campus. As a result, VA signed the *Principles for a Partnership and Framework for Settlement* (hereinafter referred to as the "Principles Agreement") on January 28, 2015. The Principles Agreement established the initial objectives for engaging with stakeholders, developing a Draft Master Plan, and developing and implementing VA's strategy to address Veterans homelessness in the region and to expand needed services to Veterans.

The Preliminary Draft Master Plan was developed in 2015 with the participation of Veterans Service Organizations, Veterans, the local community, charitable and philanthropic entities, the former plaintiffs in the lawsuit, legislators, federal, state and local authorities, and many other stakeholders. More than 1,000 public comments were received on the preliminary draft. The Secretary of VA adopted the Draft Master Plan in January 2016.

The Draft Master Plan establishes a framework to assist VA in determining and implementing the most effective use of the WLA Campus for Veterans. The Draft Master Plan states the guidelines and

principles for development and regeneration, and offers in broad concepts recommendations for improvement. Some of the key elements of the Draft Master Plan include:

- Providing appropriate levels of supportive housing on the WLA Campus tailored to the needs of vulnerable veteran sub-populations (e.g., chronically homeless, severely disabled, aging veterans with disabilities, females with dependents);
- Optimizing formerly leased properties, underutilized buildings, and vacant land on WLA Campus to better serve the Veteran community;
- Providing opportunities for Veterans to interact and receive other non-medical support services, such as education and employment training, legal services, and benefits; and
- Modernizing and reorganizing uses and functions of the campus to provide for ease of access and efficiency.

The full Draft Master Plan and additional information can be found at <a href="https://www.westladraftmasterplan.org/documentation">www.westladraftmasterplan.org/documentation</a>. The Draft Master Plan has a planning horizon of 10 years. It is anticipated that as various elements of the Draft Master Plan are implemented and the needs of the campus and the Veteran population it serves change, the plan will be revised.

Other legal developments have occurred since the Draft Master Plan was issued. Enacted in September 2016, the West Los Angeles Leasing Act of 2016 (Pub. L. 114-226) reaffirmed that the uses of the WLA Campus must "principally benefit Veterans and their families" (Section 2(1)). As a result, VA is working diligently to review all current land use agreements and terminate those agreements that do not serve that stated purpose. In addition, the Act amended VA's authority to use enhanced used leases (EULs) as provided in 38 U.S.C. §§ 8161 to 8169. The EUL Program leases existing VA buildings and vacant land to selected third-party developers for a term of up to 75 years. The developers are responsible for financing, designing, redeveloping, occupying, operating, and maintaining the projects in accordance with detailed development plans approved by VA, and applicable federal, state, and local laws, codes, ordinances, and regulations. The EUL Program will be a critical component in providing supportive housing for homeless Veterans as envisioned in the Draft Master Plan.

# 1.7 Purpose of and Need for the Proposed Action

The *purpose* of VA's Proposed Action is to revitalize the WLA Campus to provide a safe and vibrant Veteran-centric community where Veterans in the greater Los Angeles area can access improved and expanded services. The Proposed Action is particularly geared towards improving VA services for vulnerable Veterans populations, including Veterans who are homeless, aging, female, or have significant medical needs. The intent is not only for the WLA Campus to be a 21st century health care facility and a home, but also to attract all Veterans and assist them with their reintegration into the community.

The Proposed Action is *needed* because the existing campus infrastructure is not sufficient to serve the current and future needs of the regional Veteran population, including health care, homeless housing, and supportive services. Many of the older campus facilities require significant repair or renovation, and as a result have become vacant or underutilized. Also, many of the older buildings do not meet current seismic, accessibility, or life safety standards. Additionally, the campus is not currently equipped to

provide supportive housing or other related services. Housing challenges for Veterans are especially severe in the greater Los Angeles area, as evidenced by the following:

- The Los Angeles Homeless Services Authority's (LAHSA) Homeless Count indicates that in 2017, on any given night, there were 4,476 homeless Veterans within the GLAHS catchment area, a 164 percent increase from the prior year.
- In 2017, over 75 percent of homeless Veterans and more than 60 percent of homeless Veteran families were unsheltered within the GLAHS catchment area.
- The number of homeless Veterans experiencing mental illness or substance abuse and requiring patient care and services from VA more than doubled in 2017. Specifically, in 2016, 1,344 patients visited the WLA Campus seeking treatment for mental illness/substance abuse and in 2017, that number increased to 2,910 patients (Los Angeles Homeless Services Authority, 2017).

# 1.8 Scope of this Draft Programmatic Environmental Impact Statement

This Draft PEIS evaluates the potential environmental, cultural, and socioeconomic impacts of the Proposed Action and alternatives at the WLA Campus. The potential impacts of the No Action alternative, as required by NEPA, are also evaluated. This Draft PEIS focuses on the following resource areas:

- Aesthetics
- Air Quality
- Community Services
- Environmental Justice
- Floodplains, Wetlands, and Coastal Zone
- Geology and Soils
- Cultural Resources including Historic Properties
- Hydrology and Water Quality

- Land Use
- Noise and Vibration
- Socioeconomics
- Solid Waste and Hazardous Materials
- Transportation and Traffic
- Utilities
- Wildlife and Habitat

The resource area analysis identifies both potential beneficial and negative effects of the Proposed Action during construction and operations. This Draft PEIS provides a baseline assessment of the existing environment, a description of regulatory frameworks, a study of alternatives to the Proposed Action, and the analysis of potential impacts, including cumulative impacts, associated with the Proposed Action. For potentially significant impacts, this Draft PEIS identifies applicable mitigation measures to reduce the potential impacts to less than significant where possible.

During the initial scoping phase of this PEIS, consideration was given as to whether this evaluation would be a combined PEIS and Programmatic Environmental Impact Report (PEIR) to comply with the requirements of the California Environmental Quality Act (CEQA) (14 California Code of Regulations [CCR] § 15000 et seq.). CEQA is a California statute requiring state and local public agencies to review a proposed project for significant environmental impacts and to identify measures to reduce these impacts where possible. Although VA is not required to comply with CEQA for federal projects proposed within the WLA Campus, implementation of certain elements of the Draft Master Plan through EULs would

involve third-party developers who may require approvals, permits, and/or funding from state or local agencies, which are subject to CEQA compliance.

CEQA analysis is often conducted in parallel with NEPA document development. However, because no state or local lead agency is yet involved in this Proposed Action, VA has developed this document as a PEIS rather than a combined PEIS/PEIR. Pursuant to Section 15221 of the CEQA Guidelines, state and local agencies can use a NEPA document to satisfy CEQA. This PEIS has been prepared in a manner that will meet fulfill CEQA requirements. For example, this PEIS includes a discussion of mitigation measures and an analysis of the potential for growth-inducing impacts associated with implementation of the proposed action. This step is intended to expedite the environmental review process at the state and local level and thereby facilitate the execution of EULs as a mechanism for providing supportive housing and other services to Veterans.

## 1.9 Use of NEPA to Comply with the NHPA Section 106 Process

Among the declarations of the NHPA of 1966, the second declared that "the historical and cultural foundations of the Nation should be preserved as a living part of our community life and development in order to give a sense of orientation to the American people" (16 U.S.C. § 470). Section 106 requires federal agencies to take into account the effects of their undertaking on any historic properties. Historic properties include districts, buildings, sites, structures, and objects that (1) are 50 years of age or older, with limited exceptions; (2) are significant to the understanding of our local, state, or national history; and (3) retain sufficient integrity to convey the importance of the property.

Redevelopment of the WLA Campus is a federal undertaking subject to the provisions of Section 106 of the NHPA and its implementing regulations (36 CFR Part 800). NEPA and NHPA each created agencies to assist implementation of major environmental and cultural programs that shape federal project planning. CEQ and the Advisory Council on Historic Preservation (ACHP) respectively administer regulations viewed as the cornerstones of the federal environmental review procedures. CEQ's Regulations for Implementing the Procedural Provisions of the National Environmental Policy Act (40 CFR Parts 1500-1508) encourage integration of the NEPA process with other planning and environmental reviews, such as Section 106 of NHPA. The regulations that implement NHPA Section 106, Protection of Historic Properties (36 CFR Part 800), encourage agencies to plan Section 106 consultations coordinated with other requirements of other statutes, as applicable, such as NEPA. To promote efficiency and transparency, VA has chosen to use the process and documentation of this Draft PEIS to comply with Section 106 in accordance with 36 CFR § 800.8 and the CEQ-ACHP guidance in NEPA and NHPA: A Handbook for Integrating NEPA and Section 106. VA will meet all the requirements of the Section 106 process through the PEIS. Further discussion on VA's process for substituting NEPA compliance for NHPA Section 106 compliance is included in Chapter 7, Agency Coordination and Public Involvement.

<sup>&</sup>lt;sup>1</sup> The ACHP has defined a federal undertaking in 36 CFR 800.16(y) as a project, activity, or program funded in whole or in part under the direct or indirect jurisdiction of a federal agency, including those carried out by or on behalf of a federal agency; those carried out with federal financial assistance; those requiring a federal permit, license or approval; and those subject to state or local regulation administered pursuant to a delegation or approval by a federal agency.

1-12

# 1.10 Document Organization

This PEIS is organized in the format recommended by CEQ (40 CFR § 1502.10) and includes:

- Executive Summary presents a high-level summary of the Draft PEIS.
- **Chapter 1: Introduction** presents background information and the purpose and need for the Proposed Action.
- Chapter 2: Alternatives describes each of the alternatives evaluated, including the No Action, and summarizes alternatives that were considered but not evaluated in detail.
- Chapter 3: Affected Environment describes the existing baseline natural and human environment within the area that could be affected by implementation of the Draft Master Plan.
- Chapter 4: Environmental Consequences describes the assessment of the potential environmental impacts of the alternatives.
- Chapter 5: Cumulative Impacts describes the assessment of the impacts on the environment which results from the incremental impact of the Proposed Action when added to other past, present, and reasonably foreseeable future actions.
- Chapter 6: Mitigation, Monitoring, Minimization, and Best Practices discusses the measures identified to minimize or mitigate for any potential adverse impacts identified in Chapters 4 and 5.
- Chapter 7: Agency Coordination and Public Involvement summarizes the process to involve the public and the input received during the scoping process, the NEPA/NHPA substitution process, and comments received on this Draft PEIS. This chapter also summarizes coordination with federal, state, and local agencies.
- **Appendices**: Supporting materials for this PEIS.

#### 2 Alternatives

The CEQ NEPA Implementing Regulations and VA's NEPA regulations require that an Environmental Impact Statement (EIS) rigorously explore and objectively evaluate all reasonable alternatives for implementing a proposed action (40 CFR § 1502.14). This chapter describes the alternatives development process, the proposed alternatives selected for analysis in this PEIS, and the potential alternatives considered but eliminated from further review.

## 2.1 Development of Alternatives

The alternatives development process for this PEIS started with the framework adopted under the 2016 Draft Master Plan, which described the vision for determining and implementing the most effective uses of the WLA Campus for Veterans. The Draft Master Plan incorporated substantial feedback received from Veterans and the community during the planning process. In March 2017, VA NEPA Specialists and the WLA Campus VA leadership team met to identify the alternatives for evaluation under this PEIS based on the needs of WLA (as documented in Section 1.7) and a flexible approach to addressing the goals of the Draft Master Plan. The subsequent May 19, 2017 Notice of Intent (NOI) identified four potential action alternatives and the no action alternative, as follows:

- Alternative A: Relocation of any existing tenants and services to another existing building, complete renovation and retrofit of the existing building or buildings for a new function and service provider.
- **Alternative B**: Relocation of any existing tenants and services to another existing building or buildings, complete renovation and retrofit of the existing building or buildings, and relocation of tenants back to the newly completed renovation.
- Alternative C: Relocation of any existing tenants and services to another existing building or buildings, and the attendant complete demolition of former building or buildings, with construction of completely new building or buildings.
- **Alternative D**: Relocation of any existing tenants and services to another existing building or buildings, complete demolition of former building or buildings, with no replacement of the demolished building or buildings.
- **Alternative E**: No Action, or the "status quo" alternative.

The PEIS scoping process described in Section 7.1.2, which included substantial stakeholder input, yielded changes to the alternatives as summarized below and described in greater detail in Section 2.2.

- **Alternative A**: Renovation of select existing buildings for same or new functions; up to 821 new units of supportive housing for homeless Veterans created.
- **Alternative B**: Demolition of select existing buildings and relocation of existing tenants and services to other remaining buildings; no new units of supportive housing for homeless Veterans created.

- Alternative C: Demolition and replacement of select existing buildings, and additional
  construction of new buildings on open land; up to 1,622 new units of supportive housing for
  homeless Veterans created.
- Alternative D: Renovation or demolition/replacement of select existing buildings, and additional
  construction of new buildings on open land; up to 1,622 new units of supportive housing for
  homeless Veterans created.
- **Alternative E**: No Action, or the "status quo" alternative.

## 2.2 Description of Alternatives Analyzed

This section describes the four alternative redevelopment options analyzed in this PEIS (i.e., Alternatives A through D) for the revitalization of the WLA Campus and a No Action alternative (Alternative E).

Since the Draft Master Plan provides a framework for redevelopment and does not direct specific construction activities, this PEIS analyzes various approaches to redevelopment addressing some or all of the objectives of the Draft Master Plan. To provide a thorough and meaningful analysis of the Proposed Action, the alternatives are scoped such that they encompass all projects under consideration that could be accomplished in the 10-year period of analysis, even if not all proposed activities under each alternative are likely to proceed. This ensures that the PEIS considers the maximum level of impact associated with each redevelopment approach.

As a common basis for all alternatives, VA identified specific buildings on campus for potential renovation, demolition, or replacement (Table 2.2-1). VA identified these buildings because they are in poor condition, are vacant or underutilized, and/or do not fully meet applicable current standards for seismic, accessibility, or fire and life safety. Alternatives A through D offer different options for the fate of these buildings as part of the overall reconfiguration and redevelopment of the existing WLA Campus. In addition, consistent with the goal to add supportive housing options for Veterans on campus, VA identified the capacity of these buildings to support Veterans housing units if remodeled or replaced in a similar footprint. Alternatives C and D additionally consider construction of new buildings in vacant or underutilized land.

Table 2.2-1. Existing Campus Buildings Proposed to be Addressed under Multiple Alternatives

Facilities	Current Use	Potential Future Use (Relevant to Alt. A and D)*	Building Square Footage	Potential Units of Veterans Housing (Relevant to Alt. A, C, and D)**
A. WLA North Campus	<ul> <li>Future Residential</li> </ul>			
Building 113	Research	Residential	57,875	70
Building 114	Research	Residential	60,938	75
Building 115	Research	Residential	54,234	68
Building 117	Research	Residential	15,299	16
Building 156	Vacant	Residential	48,122	55
Building 157	Vacant	Residential	30,928	38
Building 158	Multi-Use	Residential	44,794	56
Building 206	Multi-Use	Residential	43,122	54

Facilities	Current Use	Potential Future Use (Relevant to Alt. A and D)*	Building Square Footage	Potential Units of Veterans Housing (Relevant to Alt. A, C, and D)**
Building 210	Multi-Use	Residential	32,548	42
Building 212	Vacant	Multi-Use/Resid.	65,081	79
Building 222	Facilities Mgmt.	Community Ctr.	22,266	0
Building 256	Multi-Use	Residential	37,990	48
Building 257	Multi-Use/Res.	Multi-Use/Resid.	43,761	62
Building 258	Multi-Use	Residential	53,389	66
Building 259	Facilities Mgmt.	Residential	7,747	9
Building 264	Vacant	Residential/Comm. Center	9,587	12
Building 300	Kitchen & OI&T	Residential/Comm. Center	59,195	71
Buildings 329 & 334 - Golf Course	Golf	Golf/Residential	265	0
Building 337	Facilities Mgmt.	Demo/Residential	12,941	0
Building 509 Recycling Center	Facilities Mgmt.	Facilities Mgmt.	3,750	0
Subtotal			703,832	821
B. WLA North Campus	- Town Center			
Building 13	Facilities Mgmt.	Town Center	55,542	0
Building 233	Facilities Mgmt.	Town Center	840	0
Building 236	Facilities Mgmt.	Town Center	8,626	0
Building 306	Facilities Mgmt.	Town Center	16,769	0
Subtotal			81,777	0
C. WLA South Campus				
Building 304	Health care	Health care	74,852	0
Building 345	Health care	Health care	13,831	0
Building 401	Health care	Health care	29,495	0
Building 402	Health care	Health care	23,725	0
Building 500 (main hospital)	Health care	Health care	781,139	0
Building 501	Utilities	Utilities	27,995	0
Building 507	Health care	Health care	4,615	0
Building 5XX (Red Cross)	Office	Office	15,766	0
0.1.4.4.1			074 440	0
Subtotal			971,418	U

<sup>\*</sup> Alternatives A and D include the renovation of these existing building with potential for changing the existing use to a new use.

#### 2.2.1 Alternative A (Existing Building Renovations)

Alternative A includes the complete renovation of up to 33 existing buildings throughout the campus, with no new major construction planned. Table 2.2-1 provides a complete listing of the buildings proposed for upgrading and their current functions and square footage. Figure 2.2-1 illustrates the location of the upgraded buildings.

<sup>\*\*</sup> Alternatives A and D include the repurposing of these existing buildings to create supportive housing units for homeless Veterans. Alternative C includes the demolition of these buildings, but would replace the buildings with a similar amount of square footage to include supportive housing units for homeless Veterans.

Alternative A would serve the purpose and need for the Proposed Action by improving existing facilities and returning vacant or underutilized buildings to productive use. The targeted buildings that are located on the South Campus currently serve primarily health care functions, and after their renovation, they would return to health care use. Targeted buildings on the North Campus have a variety of uses with many currently vacant or underutilized; most of these buildings would be repurposed to serve as supportive housing for homeless Veterans. Alternative A projects that up to 821 units of supportive housing would be provided.

Alternative A does not include any new building construction. Targeted existing buildings would receive full interior renovations with minor exterior renovations where necessary. Anticipated building renovation activities would include:

- Upgrades to all mechanical, electrical, and plumbing systems;
- Reconfiguration of building interiors to support future use;
- Seismic improvements to comply with VA Directive H-18-8, Seismic Design Requirements, in compliance with Executive Order (EO) 13717, Establishing a Federal Earthquake Risk Management Standard or applicable state and local codes;
- Life safety improvements to provide compliant fire emergency systems, stairwells, handrails, and egress and exits, in compliance with applicable fire and life safety codes;
- Accessibility upgrades in accordance with the VA Standard PG 18-13, VA Barrier Free Design Standard or applicable state and local codes;
- Landscaping and regrading around renovated buildings to provide for attractive surroundings and to divert stormwater away from foundations and basements; and
- Exterior modifications such as painting, plastering, and window repair or replacement.

Some of the buildings affected by the Proposed Action and listed in Table 2.2-1 are historically significant as described in detail in Section 3.3, Cultural Resources Including Historic Properties. Renovations to be undertaken for those historic buildings may or may not take the form of "rehabilitation." Rehabilitation is when the principles of the Secretary of the Interior's *Standards for the Treatment of Historic Properties*, specifically the *Standards for Rehabilitation (SOI Standards)*, are applied. VA has not yet determined if the *SOI Standards* will be applied to all buildings under consideration for renovation under Alternative A. Therefore, where relevant, this PEIS analyzes the impacts of building renovations conducted with or without adherence to the *SOI Standards*.

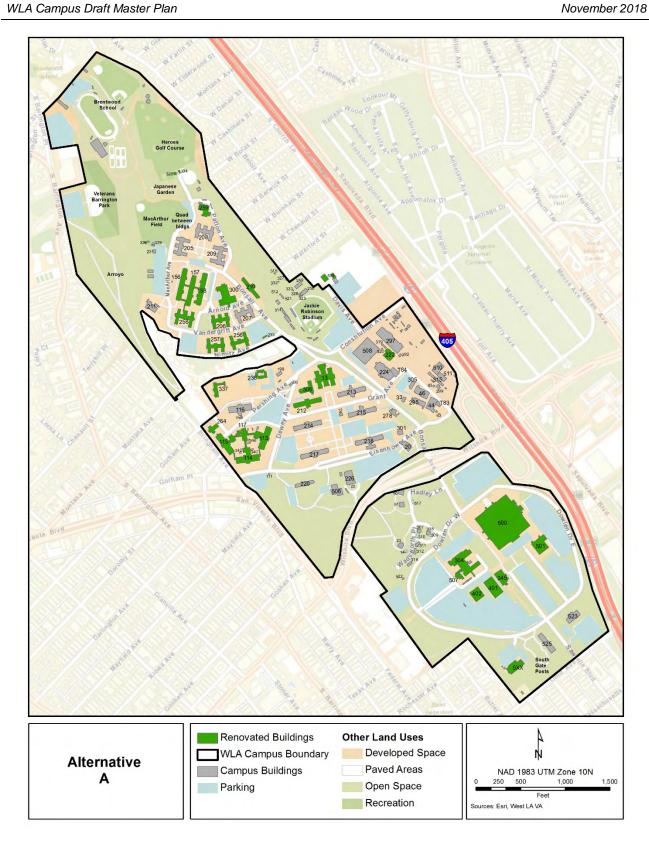


Figure 2.2-1. Illustration of Alternative A Renovation Activities

Table 2.2-2 summarizes the number of buildings renovated, their associated square footage, and the number and general location of new or renovated Veteran housing units.

**Number of** Building **Veterans Buildings Square Housing Units** Renovated **Footage** North Campus Housing & WLA 703,832 821 **Campus Operations** Medical Center - South Campus 8 971.418 0 Town Center - North Campus 4 0 81,777 Total 33 1,757,027 821

Table 2.2-2. Summary of Alternative A Activities

Alternative A would generate additional demand for utilities as the use of buildings is optimized and new residential units are created. The specific improvements that would be required to meet that increased demand have not been fully designed, but where relevant, this PEIS describes the existing condition of that infrastructure and the additional requirements resulting from the implementation of Alternative A.

The increased uses of the North Campus may also necessitate improvements to traffic circulation within the WLA Campus to increase efficiency. These roadway modifications would reduce the number of locations where pedestrian and automobile traffic may come in conflict. Recommended improvements have been identified as part of a draft Circulation Improvement Plan to be finalized once the locations and schedule of projects are better defined. Roadway reconfigurations may include, but are not limited to:

- Addition of new roadways, pedestrian paths, bicycle routes, and service truck routes;
- Modification of existing traffic patterns;
- Traffic reconfigurations such as traffic circles, road lengthening/shortening, and road widening, which may include the following:
  - The alignment of the southern segments of Patton Avenue with the north leg to form a single intersection with Bonsall Avenue;
  - o The extension of a realigned Patton Avenue between Bonsall Avenue and Nimitz Avenue;
  - o The conversion of Arnold Avenue between Patton Avenue and Bonsall Avenue from a westbound one-way roadway to a two-way roadway; and
  - o Addition of a northbound right-turn-only lane at the intersection of Bonsall Avenue and the Wilshire Boulevard Eastbound Ramps.
- Potential removal of certain roadways, pedestrian paths, bicycle routes, and service truck routes.

Before and during all Alternative A renovation activities, a comparable amount of "swing space" would need to be made available on campus to house all tenants and services currently occupying the targeted buildings. Renovation activities under Alternative A are projected to occur over a period of 10 years, phased to allow for organized relocations, renovations, and reoccupancy, and contingent on availability of funding or EUL options to execute the proposed activities.

## 2.2.2 Alternative B (Existing Building Demolition)

Alternative B includes the complete demolition of the 33 buildings identified in Table 2.2-1, with no planned replacement of the demolished buildings (i.e., no new construction). Following the demolition of the buildings, the land would be graded and seeded with grass and remain vacant for the foreseeable future. No other development or infrastructure improvements are contemplated for the campus under this alternative. Figure 2.2-2 illustrates the WLA Campus following Alternative B demolition activities.

Complete demolition of the existing buildings would require the permanent relocation/consolidation of all existing tenants and services to other existing buildings on campus. Once the existing tenants and services are relocated from the targeted buildings, demolition activities could take place. Demolition activities under Alternative B are not projected to occur all at once, but rather would be executed over a 10-year period to allow for the relocation and reorganization of existing functions from the demolished buildings to other buildings on campus that would be expected to remain. The pace of demolition would also be contingent on availability of funding and contracting vehicles to execute the proposed activities.

Table 2.2-3 summarizes the number of buildings demolished, their associated square footage, and the number and general location of new or renovated Veteran housing units. Table 2.2-3 also indicates the extent of ground disturbance that would be expected during demolition.

	Number of Buildings Demolished	Building Square Footage	Veterans Housing Units	Ground Disturbance (acres)
North Campus Housing & WLA Campus Operations	(21)	(703,832)	0	13.3
Medical Center – South Campus	(8)	(971,418)	0	6.4
Town Center – North Campus	(4)	(81,777)	0	3.1
Total	(33)	(1,757,027)	0	22.8

**Table 2.2-3. Summary of Alternative B Activities** 

While Alternative B does not meet the purpose and need for the Proposed Action, analyzing this alternative illustrates the impacts of proceeding with demolition activities in the absence of funding or EUL commitments required to implement renovation and construction activities envisioned for the Proposed Action. This alternative could have the benefit of freeing up resources currently spent on supporting inadequate infrastructure to improving the support provided to other buildings on campus. However, Alternative B would decrease the level of service from these targeted buildings that currently address Veterans' health care needs. In addition, this alternative would result in the net loss of 42 short-term/emergency beds currently available for homeless Veterans in Building 257, contrary to the commitments of the *Principles Agreement*. Therefore, VA does not prefer this alternative.

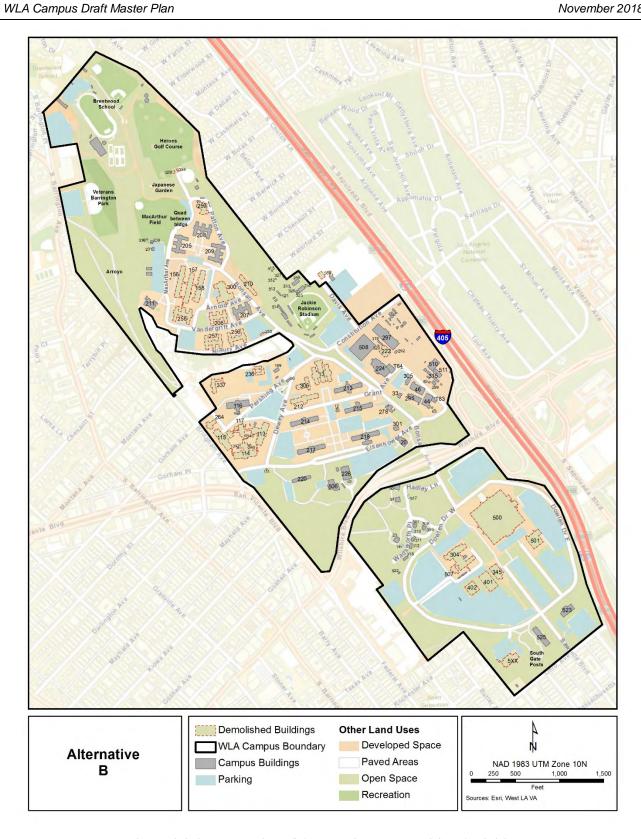


Figure 2.2-2. Illustration of Alternative B Demolition Activities

## 2.2.3 Alternative C (Demolition and New Construction)

Alternative C provides a comprehensive approach to meeting the purpose and need of the Proposed Action and represents the maximum development alternative. Alternative C assumes the complete demolition of all 33 targeted buildings identified in Table 2.2-1, new building construction to replace the 33 demolished buildings with a similar amount of square footage within existing building site areas, and the construction of additional new buildings on campus in currently vacant or underutilized areas.

As envisioned by the Draft Master Plan, VA redevelops the WLA Campus to provide supportive housing for Veterans, upgrade health care facilities to be compliant with current building codes, and provide accessible health care, a welcoming community, and additional vibrant facilities for Veterans and their families.

Alternative C reconfigures the South Campus to provide new buildings that would consolidate health care, food service, and research facilities. The replacement facilities would meet VA and California seismic, life safety, and accessibility requirements for medical center operations. Alternative C includes:

- Complete demolition of existing health care facilities that are not seismically compliant (including Buildings 304, 345, 401, 402, 500, 501, and 502);
- Construction of a new essential care facility, outpatient care clinic, and surge building approximately totaling 1,125,000 ft<sup>2</sup> to replace the demolished health care buildings;
- Construction of a new regional kitchen approximately 26,500 ft<sup>2</sup> to replace the kitchen operations currently in Building 300 on the North Campus;
- Construction of a replacement central utility plant;
- Construction of a new research building approximately 200,000 ft<sup>2</sup> to consolidate research functions currently in several buildings of the North Campus; and
- Construction of a new parking garage.

While proposed design and configuration of the replacement health care buildings and supporting functions on the South Campus has not been finalized, the density, height, and massing of the new South Campus facilities would be similar to those of the current facilities. New building heights would be limited to 299 feet, the height of the current main hospital (Building 500), to protect viewsheds from historically significant areas of the campus. New building construction would be bounded by Dowlen Drive, the road that encircles the current medical center. Construction and demolition activities would be sequenced in such a manner that existing medical functions would continue to operate during the course of construction, and buildings demolished only after their tenants and functions have been relocated to the newly constructed facilities.

Alternative C would also redevelop the North Campus to provide an estimated 1,622 new units of supportive housing for homeless Veterans and to create a town center that would feature social and recreational opportunities for resident and visiting Veterans, as well as access to additional resources including education, training, and benefits services. This alternative would include:

- Demolition of 703,832 ft<sup>2</sup> of existing buildings that are vacant or underutilized, and replacement
  with a similar amount of within the existing building site areas to provide supportive housing for
  Veterans and other campus support operations.
- Construction of approximately 680,850 ft<sup>2</sup> of additional buildings to accommodate new
  supportive housing for homeless Veterans. These new buildings would be located in one or more
  open areas of the campus to include MacArthur Field, the Heroes Golf Course, the northeast
  corner of Veterans Barrington Park, a parcel between the golf course and Veterans Barrington
  Park, and/or open land south of the CalVet facility.
- Demolition of 81,777 ft<sup>2</sup> of existing buildings around the future planned town center and replacement with approximately 450,000 ft<sup>2</sup> of development.

Figure 2.2-3 illustrates the options for location of new construction and redevelopment activities under Alternative C. The ultimate location, configuration, and number of buildings proposed for new construction on the North Campus has yet to be determined. However, the constraints identified under Alternative C (e.g., new square footage, number of new housing units, location and extent of potentially affected open land) support a conservative analysis that assumes the greatest potential impact for purposes of this PEIS. Table 2.2-4 summarizes the number of buildings demolished, their associated square footage, and the number and general location of new or renovated Veteran housing units.

	Number of Buildings Demolished/ Replaced	Building Square Footage	Veterans Housing Units	Ground Disturbance (acres)
North Campus Housing & WLA Campus Operations	21	703,832	821	14.0
Medical Center – South Campus	8	(971,418)	0	*
Town Center – North Campus	4	(81,777)	0	*
New Construction – Medical Facilities	N/A	1,125,000	0	13.7
New Construction – Regional Kitchen	N/A	26,500	0	0.6
New Construction – Research	N/A	200,000	0	3.1
New Construction – Veterans Housing	N/A	680,850	801	16.5
New Construction – Town Center	N/A	450,000	0	10.2
Total	33	2,132,987	1,622	58.1

**Table 2.2-4. Summary of Alternative C Activities** 

All new construction on both the North and South Campuses would be required to comply with applicable federal, state, and local requirements (when built by a third-party developer through the EUL process) or VA design standards (for VA-led construction projects), including but not limited to, VA Design Manuals (PG-18-10), Design and Construction Procedures (PG-18-3), VA Directive H-18-8, *Seismic Design Requirements*, and *VA Barrier Free Design Standard* (PG-18-13).

<sup>\*</sup> New construction of medical facilities and town center buildings encompasses the disturbance of the demolished buildings (i.e., new buildings will be constructed within the same site areas)

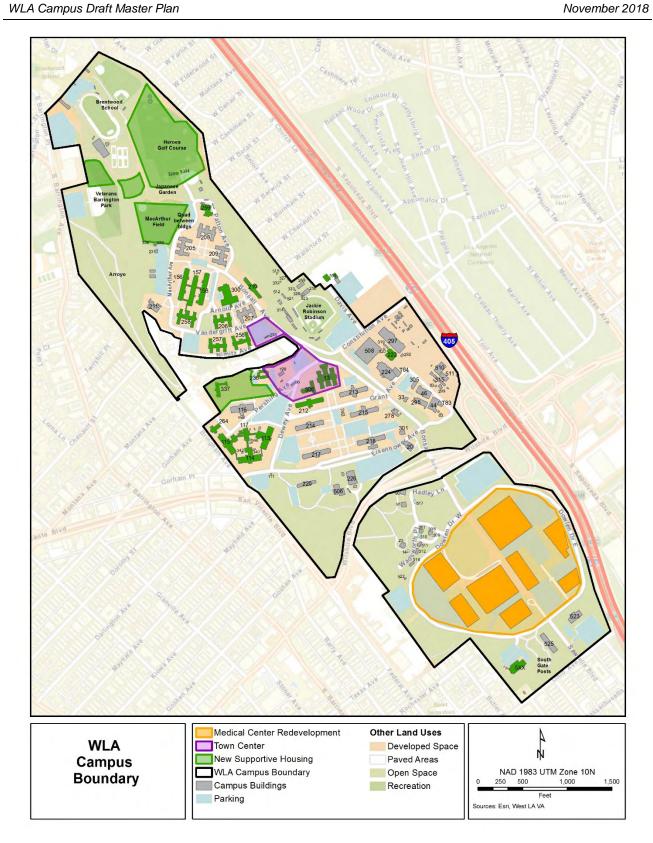


Figure 2.2-3. Illustration of Alternative C Construction Activities

Alternative C would generate additional demand for utilities and infrastructure, as the use of buildings is optimized and new residential units, including new buildings on previously vacant land, are created. The specific improvements that would be required to meet that increased demand have not been fully designed, but where relevant, this PEIS describes the existing condition of that infrastructure and the potential additional requirements resulting from the implementation of Alternative C.

The existing road network would likely require improvements for enhanced access and circulation given the increased density and population proposed for the North Campus. A draft Circulation Improvement Plan has been developed as described in Alternative A to help optimize current conditions. In addition to the improvements suggested under Alternative A, other modifications that are being considered to better support upcoming developments on campus include:

- The extension of Bonsall Avenue in the northwest direction, providing connectivity to the northeast corner of Veterans Barrington Park (if chosen as a location for new supportive housing development);
- The addition of a roadway surrounding the western edge of the MacArthur Field (if chosen as a location for new supportive housing development);
- The extension of Grant Avenue around the proposed Town Center community uses to connect with Vandergrift Avenue, to better encapsulate the non-residential uses;
- The addition of a north-south road between Eisenhower Avenue and approximately 200 feet north of Grant Avenue, providing a multi-modal linkage between the offices on the southern portion of the North Campus and the proposed Town Center; and
- Installing controlled access gating at major intersections such as Dowlen and Bonsall or Dowlen and Sawtelle to minimize cut-through traffic.

No new vehicular access points into the WLA Campus would be created or reopened to general traffic. Figure 2.2-4 provides a conceptual illustration of future circulation improvements. Not all improvements described above or illustrated in Figure 2.2-4 will necessarily be implemented. Once the locations and schedule of projects are better defined, VA will determine which elements of the plan will move forward.

For purposes of the PEIS analysis, all Alternative C demolition and construction activities are projected to be conducted within a 10-year period, which constitutes an aggressive schedule that reflects the maximum possible impact from concurrent activities.

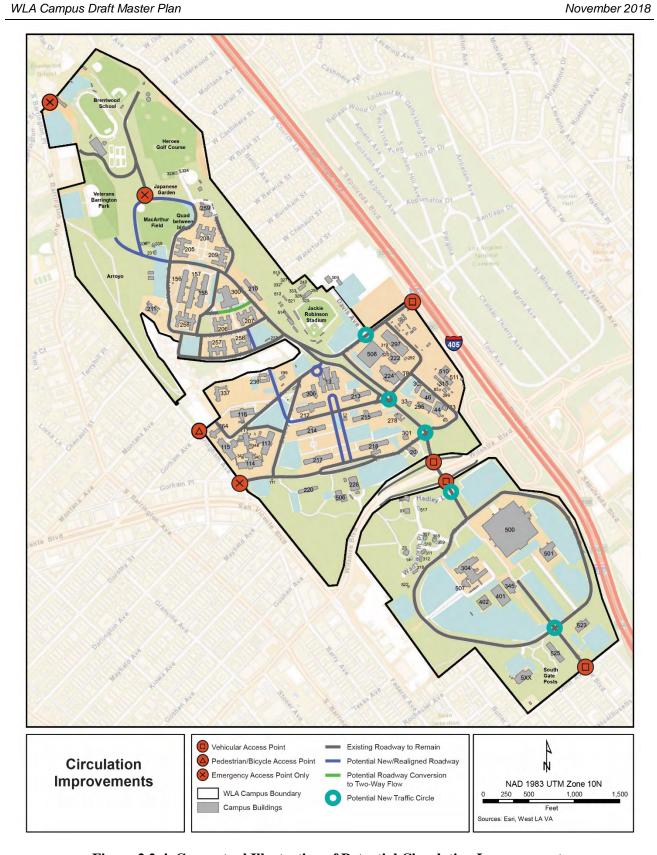


Figure 2.2-4. Conceptual Illustration of Potential Circulation Improvements

# 2.2.4 Alternative D (Renovation, Demolition, and New Construction)

Alternative D is VA's preferred alternative, which fully addresses the purpose and need of the Proposed Action. Alternative D includes the full range of renovation, demolition, and/or new construction options proposed in Alternatives A through C. Alternative D would allow VA choices to expand the South Campus to provide additional medical facilities that would provide better integrated care for Veterans; upgrade WLA Campus buildings and infrastructure to meet applicable building codes; and include new construction on vacant North Campus land or areas proposed for demolition to provide supportive housing for homeless Veterans and a town center to facilitate social engagement and provide access to other non-medical resources.

Alternative D assumes that rather than demolition and replacement of all targeted buildings identified in Table 2.2-1 (as assumed under Alternative C), VA would carefully consider all options to renovate, demolish, or construct new buildings on campus to best suit the needs of Veterans served at the WLA Campus. Final decisions regarding the renovation or replacement of each targeted building and the timeline for their development would be made as priorities are further defined and funding allocated.

For redevelopment of the South Campus, Alternative D includes similar assumptions to those of Alternative C. Alternative D promotes the consolidation of health care, research, and supporting functions into an integrated medical center with improved facilities, access, and circulation. However, under Alternative D, certain buildings or portions of buildings may be renovated rather than completely demolished, if renovations are deemed the best course of action and compatible with future uses. For purposes of analyzing impacts from the South Campus redevelopment, Alternative D assumes:

- Partial or complete demolition of existing health care facilities that are not seismically compliant (including Buildings 304, 345, 401, 402, 500, 501, and 502);
- Construction of a new essential care facility, outpatient care clinic, and surge building, totaling approximately 1,125,000 ft<sup>2</sup> to replace the demolished health care buildings;
- Construction of a new regional kitchen approximately 26,500 ft<sup>2</sup> to replace the kitchen operations currently in Building 300 on the North Campus;
- Construction of a replacement central utility plant;
- Construction of a new research building up to 200,000 ft<sup>2</sup> to consolidate research functions currently in several buildings of the North Campus; and
- Construction of a new parking garage.

As with Alternative C, the density, height, and massing of the new South Campus facilities would be similar to those of the current facilities. New building heights would be limited to 299 feet, the height of the current main hospital (Building 500), to protect viewsheds from historically significant areas of the campus. New building construction would be bounded by Dowlen Drive, the road that encircles the current medical center. Construction and demolition activities would be sequenced in such a manner that existing medical functions would continue to operate during the course of construction, and buildings

would be demolished only after their tenants and functions have been relocated to the newly constructed facilities.

The ultimate location, configuration, and number of buildings proposed for new construction on the North Campus depends on agreements between VA and the EUL third-party developer. However, unlike Alternative C, rather than wholesale demolition and replacement of vacant or underutilized buildings, VA and the third-party developer would carefully assess the condition and future use viability of existing buildings to determine which buildings could be renovated rather than replaced. This assessment would consider the desired integrity of the historic district, the visual continuity and consistency of the campus, and cost requirements. Renovation of existing buildings would include all possible activities described under Alternative A.

As with Alternative C, Alternative D also includes the construction of approximately 680,850 ft<sup>2</sup> of additional buildings on currently vacant land to accommodate new supportive housing for homeless Veterans. The current locations of vacant land considered for new buildings construction include MacArthur Field, Heroes Golf Course, the northeast corner of Veterans Barrington Park, a parcel between the golf course and Veterans Barrington Park, and/or open land south of the CalVet facility (Figure 2.2-3). In addition, up to an additional 450,000 ft<sup>2</sup> of new construction is projected for the development of the new town center on existing vacant and mixed-use land. Between possible renovation of existing buildings and new construction, up to 1,622 new supportive housing units are estimated to be created under Alternative D.

All new construction would comply with applicable federal, state, and local building requirements (when built by a third-party developer through the EUL process) or VA design standards (for VA-led construction projects), including but not limited to, VA Design Manuals (PG-18-10), Design and Construction Procedures (PG-18-3), VA Directive H-18-8, *Seismic Design Requirements*, and *VA Barrier Free Design Standard* (PG-18-13). VA has not yet determined if the *SOI Standards* will be applied to all renovation and new construction that may affect historic buildings on the WLA Campus. Therefore, where relevant, this PEIS analyzes the impacts of building renovations and new construction conducted with or without adherence to the *SOI Standards*.

Alternative D would generate additional demand for utilities, as the use of buildings is optimized and new residential units, including new buildings on previously vacant land, are created. The specific improvements that would be required to meet that increased demand have not been fully designed, but where relevant, this PEIS describes the existing condition of that infrastructure and the potential additional requirements resulting from the implementation of Alternative D.

The existing road network would likely require improvements for enhanced access and circulation given the increased density and population proposed for the North Campus. A draft Circulation Improvement Plan has been developed as described in Alternatives A and C to help optimize current conditions. Once the locations and schedule of projects are better defined, VA will determine which elements of the plan will be implemented. Alternative D is scheduled for a 10-year period, phased to allow organized relocations, renovations, demolition, and redevelopment. The construction time period projected is aggressive and contingent on availability of funding or EUL options, but it serves to provide a conservative estimate of the maximum, concurrent construction impacts that could occur under this alternative.

## 2.2.5 Alternative E (No Action)

Alternative E is the study of the impacts associated with the No Action or "status quo" alternative as a basis for comparison to Alternatives A through D. Under the No Action Alternative, no activities would happen to implement the Draft Master Plan, including not providing supportive housing for homeless Veterans as required under the Principles Agreement discussed in Section 1.6. Only ongoing operations and maintenance would be performed on existing buildings. This alternative does not meet the purpose and need of the Proposed Action as described in Section 1.7.

#### 2.3 Alternatives Identified but not Evaluated in Detail

VA explored and objectively considered a range of potentially reasonable alternatives to meet the purpose and need. Through this process, VA eliminated from further consideration in this PEIS the following alternative:

• Relocation of VA personnel and/or services away from the WLA Campus to other locations – As described in Section 1.6, VA committed in the Principles Agreement and the Draft Master Plan to optimize the WLA Campus for Veterans use. While the buildings and infrastructure of the WLA Campus require significant investment to fully meet the needs of Veterans in the greater Los Angeles region, including supportive housing for homeless Veterans, VA is committed to revitalizing the WLA Campus rather than expanding services at other existing GLAHS facilities or new facilities in the area. Further, the West Los Angeles Leasing Act of 2016 prohibits VA from selling or conveying any WLA Campus property; therefore, VA would be required to continue to provide maintenance and stewardship of the property, even if services were expanded elsewhere. As a result, this potential alternative was eliminated from further consideration.

## 3 Affected Environment

#### 3.1 Aesthetics

This section describes the current aesthetic character and visual setting of the WLA Campus and the federal, state, and local requirements that are applicable to aesthetics for the WLA Campus. Natural features (e.g., mountain ranges, ocean views, unique geological formations, rivers) and constructed landmarks (e.g., city skylines, buildings, bridges, cultural resources, memorials, statues) are considered under aesthetics. The value of a property's aesthetics and visual quality are subjective measures and are thus challenging to evaluate or quantify.

Visual resources and aesthetics were broadly reviewed across the WLA Campus to include naturally existing features and manmade structures that contribute to the overall visual character and scenic quality of the campus. Within this context of scenic quality, the term viewshed is used to describe an area or areas that are visible from locations within the WLA Campus property and outside the WLA Campus property looking in for those who live in proximity.

# 3.1.1 Regulatory and Policy Framework

Based upon the Supremacy Clause of the U.S. Constitution (Article VI) and because the WLA Campus is wholly owned by VA and the Federal Government, VA is not subject to state or local regulations regarding aesthetics or visual resources. However, due consideration is given to laws related to state and local laws regarding landscaping, open space, minimum distance of a building from the property line, maximum height of a building, historic preservation, and aesthetic qualities of a building, in accordance with 40 U.S.C. § 619(b).

In addition, certain portions of the WLA Campus are home to culturally and historically significant events and resources that resulted in designation of the WLA VA National Register Historic District (WLA VA NRHD) and the individual listing of two buildings in the National Register of Historic Places (NRHP). Section 3.3, Cultural Resources Including Historic Properties, provides the details of the historic designations and the NHPA review process.

The aesthetic character of WLA Campus resources is further evaluated against specific VA Design Manuals and directives, including the VA Site Development Design Manual, VA Directive 7545 (Cultural Resource Management), and VA Lighting Design Manual.

#### 3.1.2 Current Conditions

#### 3.1.2.1 Setting and Landscapes

The WLA Campus encompasses approximately 388 acres in downtown western Los Angeles. The campus is surrounded by densely populated communities including Brentwood, Westwood, and Sawtelle-West Los Angeles and shares viewsheds and property lines with urban areas for various commercial, educational, and residential purposes. The primary property boundary lines are the I-405 and single-family homes (northeast), Ohio Avenue (southeast), San Vincente Boulevard (south-southwest), South

Barrington Avenue (southwest), and Brentwood School and single-family homes (north). Wilshire Boulevard bisects the property into the North and South Campus (Figure 3.1-1).



Figure 3.1-1. WLA Campus Location and Surrounding Environment

The WLA Campus is sited on a terrace that slopes primarily from the north to south (approximately 2.5 percent), and WLA Campus elevations range from approximately 490 feet above sea level (ASL) in the northwest to approximately 260 feet ASL in the south. Steeper slopes covered with dense overgrowth

brush are primarily located along the Campus's northwestern and northeastern property boundaries (USGS, 1988) (see Section 3.4.2.2, Geology and Topography, for more information).

There are no naturally occurring water features on the WLA Campus and when surface water is present, it generally results from rain events, irrigation, and/or runoff from storm drain systems. Because the greater Los Angeles area has also experienced severe drought, many areas of the WLA Campus are covered in hardscape to reduce the need for watering plants and vegetation. Section 3.5, Hydrology and Water Quality, contains additional hydrology information on the WLA Campus.

While most of the South Campus is heavily developed, it retains a historic landscaped park (Wadsworth Park) (Figure 3.1-2). On the North Campus, most grounds surrounding historic, residential, and research buildings are landscaped, while most facilities or service/engineering buildings are surrounded by paved parking lots or access roads. A number of open parks and recreational areas are available to Veterans and visitors on the North Campus, including a golf course, soccer fields, and a Japanese garden (see Section 3.11.2.4, Parks and Recreation, for more information). The only open, naturalized area on the WLA Campus is a naturally occurring gulley (referred to as the arroyo) along part of the North Campus' western property boundary that is overgrown with brush and trees (Figure 3.1-2).





Wadsworth Park

Arroyo

Figure 3.1-2. WLA Campus Example Grounds and Park Views

Viewsheds from the surrounding neighborhoods into the South Campus are generally open, with the six-story VA main hospital (Building 500) clearly visible from multiple angles (Figure 3.1-3). Wadsworth Park, including its historic palm grove, is visible from neighborhoods to the southwest of the WLA Campus (Figure 3.1-4). Along the edges of the North Campus, overgrowth brush, pine, palm, and eucalyptus trees block views into the campus, creating natural looking viewsheds from multiple points of adjacent communities. Figures 3.1-5, 3.1-6, and 3.1-7 illustrate viewsheds into the North Campus.



Figure 3.1-3. Viewshed from Ohio Avenue Looking North into the South Campus



Figure 3.1-4. Viewshed from Wilshire Avenue Looking East into the Historic Palm Grove



Figure 3.1-5. Viewshed from Montana Avenue Looking Northeast into the North Campus



Figure 3.1-6. Viewshed from Burnham Street Looking Southwest into the North Campus



Figure 3.1-7. Viewshed from Woodburn Avenue Looking South into the North Campus

## 3.1.2.2 Architecture and Buildings

The WLA Campus includes both historic and recently constructed buildings that are interspersed across the property. Building heights vary from one story to six stories, with some facilities including sub-grade basement levels. Building sizes range from small sheds (less than 200 ft²) to larger complex buildings (more than 900,000 ft²). Certain buildings used for medical services, patient care, and housing are operational 24 hours a day with property routinely maintained and exterior facades kept orderly. Other facilities have been vacant for long periods of time with many of the exterior facades not maintained.

Most buildings on the North Campus are two to three stories with linear footprints, and often include interior courtyards hardscaped or landscaped with trees and vegetation. The buildings showcase an eclectic mix of early 20<sup>th</sup> century architectural styles, including Mission Revival, Art Deco, Carpenter Gothic, Colonial Revival, Richardson Romanesque, Shingle, and Streamline Moderne. The North Campus generally exhibits a consistent visual quality. Many building exteriors are light-colored stucco with terra cotta roof tiles. The historic roadway construction and layout across the North Campus has buildings oriented into fan-shaped patterns with concrete walkways and paved surface parking lots. Section 3.3, Cultural Resources Including Historic Properties, contains additional information regarding the specific architecture type used for each building and documents the time period of construction.

Several individual buildings and places hold significant importance to the visual and historic character of the WLA Campus, and as such, contribute to the general aesthetics (Figure 3.1-8). Many of the buildings and places are contributors to the NRHD, and protection of the WLA Campus viewsheds containing historic properties is important. Table 3.3-1 lists the specific buildings and areas that are included in the

WLA VA NRHD and the sites individually listed in the NHRP that are considered visually sensitive. Two of the WLA Campus buildings, the Wadsworth Chapel (Building 20) and the Streetcar Depot (Building 66), have been individually listed in the NRHP (Figure 3.1-8) (National Park Service, 1972a) (National Park Service, 1972b).



Wadsworth Chapel (Building 20, NRHP-Listed)



**Streetcar Depot (Building 66, NRHP-Listed)** 



Wadsworth Theatre (Building 226)



Stone Fence near Governor's Mansion (B23)

Figure 3.1-8. Examples of Historic Buildings and Features

Some of the historic buildings that contribute to the NHRD designation are being renovated and adapted to support Veterans' therapeutic and housing needs. Specifically, Building 209, a three-story 51,500 ft<sup>2</sup> building originally constructed in 1949, was rehabilitated in accordance with the *SOI Standards* in 2015 to provide 54 modernized residential units to house, train, and rehabilitate homeless Veterans (Figure 3.1-9). Building 209 is located within sight of Buildings 205, 207, and 208, which are also planned for renovation into therapeutic



Figure 3.1-9. Building 209

supportive housing for homeless Veterans. At this time, VA plans to rehabilitate Buildings 205 and 208 using the *SOI Standards* and has identified a developer who has committed to applying the *SOI Standards* to design plans for Building 207. Each of these buildings currently has stucco exteriors in an ochre color palette, terra cotta roof tiles, and dry vegetation landscaping or hardscaping.

The South Campus buildings, generally of more modern construction, reflect the later twentieth-century

preference for functional, rather than ornamental, building design. One of the largest and most prominent buildings at the WLA Campus is the six-story hospital (Building 500) that was constructed on the South Campus in 1977. The hospital is visible from most parts of the campus and includes exterior lighting to support safety and security (Figure 3.1-10). The hospital and other associated health care buildings are bounded by a circular roadway (Dowlen Drive) and parking lots with views of palm trees and decorative landscaping. From the upper-level stories, views from the hospital look across the WLA Campus, onto neighboring properties, the I-405, and downtown Los Angeles.



Figure 3.1-10. WLA Medical Center Hospital (Building 500)



Figure 3.1-11. Fisher House (Building 523)

Other recent construction on the South Campus include the 2009 opening of Fisher House (Building 523; Figure 3.1-11) and Patriot House (Building 525). Though newly constructed, the Fisher and Patriot Houses use an ochre exterior color palette with stucco and terra cotta roofing that fits the prior WLA aesthetic. The facilities that support WLA Campus maintenance activities, grounds keeping, and utility operations, concentrated primarily on the eastern side of the WLA Campus, are generally functional in appearance with no distinct style (Figure 3.1-12).



**Building 46: Plumbing Shop** 



**Building 305: Transportation Offices** 



**Building 310: Transportation Offices** 

Figure 3.1-12. Example WLA Campus Operations Support Buildings

#### 3.1.2.3 Light Pollution

The aesthetic quality of viewsheds from the WLA Campus and into the WLA Campus from neighboring communities can be impacted by the type of lighting fixtures used by VA and surrounding property owners, especially at night. The WLA Campus Lighting Study conducted in 2018 analyzed the location and types of lighting on the campus and their potential for light trespass (Lighting Design Alliance, 2018). Due to certain light sensitivities of campus residents and building operations, VA attempts to control light trespass where feasible, while also supporting the safety of residents and visitors via campus lighting. Exterior lighting fixtures are prevalent for most buildings entrances, parking lots, and some roadway/walkway areas. WLA Campus lighting fixtures include both full cutoff (i.e., those that do not permit uplight and thus limit light pollution) and non-cutoff (i.e., those that allow uplight and cause light trespass and pollution).

While the WLA Campus does not produce a significant amount of light pollution or glare that currently impacts viewsheds, current lighting systems produce light trespass in certain locations. Many campus activities currently occur during daytime hours, which helps to limit lighting needs and impacts resulting from current nighttime light trespass. However, noticeable light pollution occurs from evening games played at the Jackie Robinson Stadium. Lighting includes tall pole-mounted, industrial (i.e., 12-array) stadium lights that meet National Collegiate Athletic Association (NCAA) baseball standards. The stadium also includes a state-of-the-art video scoreboard with a light-emitting diode (LED) video display approximately 17 feet tall and more than 49 feet wide (Figure 3.1-13) (Daktronics, 2012).

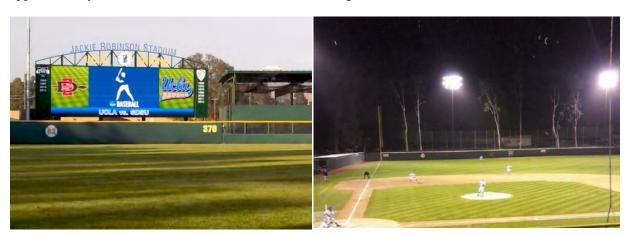


Figure 3.1-13. Jackie Robinson Stadium Lighting and Video Scoreboard

# 3.2 Air Quality

This section describes the existing physical affected environment and regulatory framework related to emissions of criteria air pollutants, hazardous air pollutants (HAPs), and greenhouse gases (GHGs). Ambient concentrations of air pollutants are determined by the qualities and quantities of emissions released by sources and the atmosphere's ability to transport, dilute, and transform the emissions. Natural factors that affect transport, dilution, and transformation include terrain, wind, atmospheric stability, and sunlight. The combination of low wind speeds and restricted vertical mixing is referred to as stable or

inversion conditions, and generally produces the highest concentrations of air pollutants. Therefore, existing air quality conditions in an area are determined by natural factors, such as topography, meteorology, and climate, in addition to the sources and strengths of emissions, as discussed separately below.

## 3.2.1 Regulatory and Policy Framework

Air quality for the WLA Campus is regulated at the federal level by the U.S. Environmental Protection Agency (EPA), at the state level by the California Air Resources Board (CARB), and at the local level by the South Coast Air Quality Management District (SCAQMD). Each of these agencies develops rules and regulations for which the WLA Campus and other organizations must comply.

Enacted in 1970 and amended in 1990, the Clean Air Act (CAA) (42 U.S.C. § 7401 et seq.) provides the statutory framework for EPA, states, and localities to jointly protect air quality and attain the objective of the CAA, "to protect and enhance the quality of the Nation's air resources so as to promote the public health and welfare and the productive capacity of its population" (42 U.S.C. § 7401(b)).

#### 3.2.1.1 National and State Ambient Air Quality Standards

As required by the CAA under 40 CFR Part 50, EPA set National Ambient Air Quality Standards (NAAQS) for selected criteria pollutants considered harmful to public health and the environment to include ozone, carbon monoxide (CO), nitrogen dioxide (NO<sub>2</sub>), sulfur dioxide (SO<sub>2</sub>), particulate matter (PM<sub>10</sub> and PM<sub>2.5</sub>), and lead (Pb). Primary NAAQS are limits set to protect public health, including the health of sensitive populations such as asthmatics, children, and the elderly. Secondary NAAQS are intended to protect public welfare, including protection against visibility impairment and damage to animals, crops, vegetation, and buildings (U.S. Environmental Protection Agency, 2016a).

Comparing contaminant levels in ambient air samples to the NAAQS is an indicator of the health of a region's air quality. Both EPA and CARB use ambient air quality monitoring data to designate areas according to their status for criteria pollutants. The purpose of these designations is to identify areas with air quality problems and initiate planning efforts to improve ambient air quality. Based upon ambient air quality monitoring data, EPA designates areas within each state as:

- In **attainment** for those NAAQS that are being met,
- In **nonattainment** for those NAAQS that are being exceeded,
- In **maintenance** if the area was reclassified from nonattainment to attainment and is therefore subject to an EPA-approved maintenance plan, or
- **Unclassified** if no determination has been made.

Nonattainment areas may differ in severity and are assigned a classification that is equal to the severity of their air quality problem (e.g., moderate, serious, severe, extreme). If an area is designated as nonattainment, states must develop a State Implementation Plan (SIP) to reduce air pollution in those areas. SIPs are a collection of regulations and documents that provide a plan for implementation, maintenance, and enforcement of the NAAQS in each state. The CAA requires EPA to review and approve all SIPs, but SIPs are generally enforced by the relevant state. EPA is authorized to take enforcement action against violators for federally approved SIPs. If a SIP has been approved by a state

but not yet approved by EPA, then it is only state-enforceable and not federally enforceable until approved by EPA.

CARB has developed California Ambient Air Quality Standards (CAAQS) that are generally more stringent than the corresponding federal EPA NAAQS and incorporate additional standards for sulfates, hydrogen sulfide, vinyl chloride, and visibility reducing particles. In addition, California designations include "transitional" as a subcategory of nonattainment, which is given to nonattainment areas that are progressing and nearing attainment (California Air Resources Board, 2017).

Table 3.2-1 provides a summary of NAAQS and CAAQS. Table 3.2-2 documents potential acute health effects of criteria air pollutants, while Table 3.2-3 documents potential chronic health effects. California standards for ozone, CO, SO2 (one- and 24-hour), NO2, and particulate matter (PM10, PM2.5, and visibility reducing particles) are values that are not to be exceeded. All others are not to be equaled or exceeded.

Table 3.2-1. Ambient Am Quanty Standards					
Pollutant	Averaging Time	CAAQSª	NAAQS <sup>a</sup>		
Ozone	1-hour	0.09 parts per million (ppm) (180 µg/m³)	_		
	8-hour	0.070 ppm (137 μg/m³)	0.070 ppm (137 µg/m <sup>3</sup> )		
PM <sub>10</sub>	24-hour	50 μg/m <sup>3</sup>	150 μg/m <sup>3</sup>		
	Annual Arithmetic Mean	20 μg/m <sup>3</sup>	_		
PM <sub>2.5</sub>	24-hour	—	35 μg/m <sup>3</sup>		
	Annual Arithmetic Mean	12 μg/m <sup>3</sup>	12 μg/m <sup>3</sup>		
CO	1-hour	20 ppm (23 mg/m <sup>3</sup> )	35 ppm (40 mg/m <sup>3</sup> )		
	8-hour	9.0 ppm (10 mg/m <sup>3</sup> )	9 ppm (10 mg/m <sup>3</sup> )		
NO <sub>2</sub>	1-hour	0.18 ppm (339 μg/m³)	100 parts per billion (ppb) (188 µg/m³)		
	Annual Arithmetic Mean	0.030 ppm (57 μg/m <sup>3</sup> )	0.053 ppm (100 μg/m <sup>3</sup> )		
	1-hour	0.25 ppm (655 μg/m <sup>3</sup> )	75 ppb (196 µg/m³)		
SO <sub>2</sub>	24-hour	0.04 ppm (105 μg/m³)	0.14 ppm (for certain areas)		
	Annual Arithmetic Mean	_	0.030 ppm (for certain areas)		
	30-Day Average	1.5 μg/m <sup>3</sup>	_		
Pb <sup>b</sup>	Calendar Quarter	_	1.5 μg/m³ (for certain areas)		
	Rolling 3-month Average	—	0.15 μg/m <sup>3</sup>		
Sulfates	24-hour	25 μg/m <sup>3</sup>			
Hydrogen Sulfide	1-hour	0.03 ppm (42 μg/m <sup>3</sup> )			
Vinyl Chloride <sup>b</sup>	24-hour	0.01 ppm (26 μg/m <sup>3</sup> )			

Table 3.2-1. Ambient Air Quality Standards

 $\mu g/m3 = microgram per cubic meter$ 

Source: (California Air Resources Board, 2016a)

a Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. ppm refers to ppm by volume, or micromoles of pollutant per mole of gas.

b CARB has identified Pb and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.

Table 3.2-2. Acute Health Effects of Criteria Air Pollutants

Pollutant	Concentration	Averaging Time	Symptoms
Ozone	0.10 to 0.40 ppm	1-2 hours	Increased respiration and pulmonary resistance; cough, pain, shortness of breath
Ozone	<=0.12 ppm	6-8 hours	Lung inflammation
CO	70-400 ppm	< 3 hours	Headache, dizziness, fatigue, nausea, vomiting
СО	> 800 ppm	2-3 hours	Unconsciousness and eventually death
NO <sub>2</sub>	10-20 ppm	< 3 hours	Coughing, difficulty breathing, vomiting, headache, eye irritation
NO <sub>2</sub>	20-150 ppm	4-12 hours	Chemical pneumonitis or pulmonary edema; breathing abnormalities, cough, cyanosis, chest pain, rapid heartbeat
NO <sub>2</sub>	> 200 ppm	< 1 Hour	Death
PM <sub>10</sub> and PM <sub>2.5</sub>	Dependent on particle size, composition, number	_	Breathing and respiratory symptoms, aggravation of existing respiratory and cardiovascular diseases, premature death
Pb	_	_	Abdominal pain, constipation, fatigue, headache, loss of appetite, memory loss, pain or tingling in the hands and/or feet, weakness; anemia, kidney and brain damage; miscarriage, stillbirths, and infertility; very high Pb exposure can cause death

Sources: (Godish, Air Quality, 2004) (New Hampshire Department of Environmental Services, 2007) (U.S. Congress, 1989) (U.S. Environmental Protection Agency, 2010) (U.S. Environmental Protection Agency, 2010) (U.S. Environmental Protection Agency, 2017a) (U.S. Environmental Protection Agency, 2003a) (National Research Council (US) Subcommittee on Rocket-Emission Toxicants, 1998) (National Institute for Occupational Safety and Health, 2017)

Table 3.2-3. Chronic Health Effects of Criteria Air Pollutants

Pollutant	Concentration	Averaging Time	Symptoms
Ozone	_	Long/lifetime	Permeability of respiratory epithelia, possibility of permanent lung impairment
СО	_	After acute exposure not resulting in death	Headache, fatigue, muscle aches, nausea, vomiting, and a change in sensitivity to light, odor, and taste
NO <sub>2</sub>	-	Severe intoxication after acute exposure	Chronic bronchitis, decreased lung function
PM <sub>10</sub> and PM <sub>2.5</sub>	Dependent on particle size, composition, number	Long/lifetime	Reduced lung function, chronic bronchitis, premature death
Pb	_	_	Abdominal pain, constipation, depression, memory loss, nausea; high blood pressure, heart disease, kidney disease, and reduced fertility

Sources: (Godish, Air Quality, 2004) (New Hampshire Department of Environmental Services, 2007) (U.S. Congress, 1989) (U.S. Environmental Protection Agency, 2010) (U.S. Environmental Protection Agency, 2017a) (U.S. Environmental Protection Agency, 2003a), (National Institute for Occupational Safety and Health, 2017)

General conformity requirements were adopted by Congress as part of the CAA Amendments of 1990 (CAAA) and implemented by EPA regulations in 40 CFR Part 93. Under the general conformity regulations, actions taken by the Federal Government must not undermine state or local efforts to achieve

and maintain NAAQS. Before a federal action is undertaken, it must be evaluated for conformity with the SIP. All reasonably foreseeable emissions, both direct and indirect, predicted to result from the federal action are taken into consideration and must be identified with respect to location and quantity. Direct emissions occur at the same time and place as the action. Indirect emissions are reasonably foreseeable emissions that may occur later in time and/or farther removed from the action and are subject to conformity if the federal agency can practicably control them and maintain control through a continuing program responsibility. If it is found that the federal action would create emissions above *de minimis* threshold levels specified in EPA regulations, the action cannot proceed unless mitigation measures are specified that would bring the project into conformance.

#### 3.2.1.2 Hazardous Air Pollutants and Toxic Air Contaminants

Title III of the CAAA directed EPA to promulgate national emissions standards for hazardous air pollutants (NESHAPs). The NESHAPs for major sources of HAPs may differ from those for area sources. Major sources are defined as stationary sources with the potential to emit more than 10 tons per year (tpy) of any HAP or more than 25 tpy of any combination of HAPs, while all other sources are considered area sources. The CAAA requires EPA to regulate HAPs from major sources in two phases. The first phase is "technology-based" (i.e., toxic air pollutants in an industry group or "source category"), while the second phase is a "risk-based" approach to determine whether more health-protective standards are necessary. Since 1990, EPA has issued regulations limiting toxic air emissions from more than 174 categories of industrial sources (e.g., chemical plants and oil refineries), which are projected to reduce annual toxic air emissions by about 1.7 million tons (U.S. Environmental Protection Agency, 2017b).

Among the many substances identified as HAPs are asbestos and lead. The regulation of HAPs generally occurs through rules that require the use of the maximum or best available control technology (MACT or BACT). MACT/BACT for asbestos and lead have been identified for many years, and there are established rules and procedures to prevent dispersion and inhalation of these substances. Asbestos is a naturally occurring mineral that was used in building materials for thermal and acoustical insulation and fire resistance until the mid-1980s, before it became subject to a partial ban by EPA in 1989 (U.S. Environmental Protection Agency, 2016b). Lead, which has a NAAQS, was used in paint for housing until 1978 when EPA banned lead-based paint for use in housing (U.S. Environmental Protection Agency, 2017c). Asbestos and lead, when disturbed during building related operations, renovations, or demolition, can become airborne as inhalable health hazard pollutants and therefore require abatement before certain activities. Section 3.12, Solid Waste and Hazardous Materials, contains additional information regarding lead, asbestos, and other waste materials.

In California, the term "toxic air contaminant" (TAC) is used in a similar sense as HAPs. TACs is defined by California law as an air pollutant that "may cause or contribute to an increase in mortality or an increase in serious illness, or which may pose a present or potential hazard to human health" (California Health and Safety Code § 39655(a)). As with criteria pollutants, TACs may be emitted by stationary, area, or mobile sources. Unlike criteria pollutants, TACs may also originate from indoor, noncombustion sources (e.g., building materials and consumer products like pesticides and cleaning solvents). Common stationary sources of TAC emissions include gasoline stations, dry cleaners, and diesel backup generators, which are subject to the requirements of local air district permits. The other, often more significant, sources of TACs emissions are motor vehicles on freeways, high-volume

roadways, or other areas with high numbers of diesel vehicles such as distribution centers. Off-road mobile sources include construction equipment, ships, and trains.

TACs can be separated into carcinogens and noncarcinogens based on the nature of the effects associated with exposure to the pollutant. For regulatory purposes, carcinogens are assumed to have no safe threshold below which health impacts would not occur, and cancer risk is expressed as excess cancer cases per one million exposed individuals. Noncarcinogens differ in that there is generally assumed to be a safe level of exposure below which no negative health impact is believed to occur. These levels are determined on a pollutant-by-pollutant basis. Acute and chronic exposure to noncarcinogens is expressed using a Hazard Index (HI), which is the ratio of expected exposure levels to acceptable health-acceptable exposure levels.

According to the *California Almanac of Emissions and Air Quality*, the majority of the estimated health risks from TACs can be attributed to relatively few compounds, the most important being particulate matter from the exhaust of diesel-fueled engines (diesel PM) (California Air Resources Board, 2013). Diesel PM was listed by the state as a TAC in 1998. Diesel PM has historically been used as a surrogate measure of exposure for all diesel exhaust emissions. Diesel PM consists of fine particles (diameter less than 2.5 μm), including a subgroup of ultrafine particles (diameter less than 0.1 μm). Collectively, these particles have a large surface area which makes them an excellent medium for absorbing organics. The visible emissions in diesel exhaust include carbon particles or "soot." Diesel exhaust also contains a variety of harmful gases and cancer-causing substances.

California Assembly Bill (AB) 2588, the Air Toxics "Hot Spots" Information and Assessment Act, was enacted in 1987 and requires stationary sources of pollutants to report the types and quantities of toxic air emissions. The goals of the "Hot Spots" Act are to collect emission data, to identify facilities having localized impacts, to ascertain health risks, to notify nearby residents of significant risks, and to reduce those significant risks to acceptable levels. In September 1992, the "Hot Spots" Act was amended by Senate Bill (SB) 1731 to require that owners of significant-risk facilities reduce their risks below the level of significance.

In August 2002, the SCAQMD's Mobile Source Committee approved the *Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Emissions*. If a proposed project has the potential to generate vehicular trips, especially heavy-duty diesel vehicles, SCAQMD recommends performing a mobile source health risk assessment to quantify potential cancer risks from diesel PM. An analysis of all TAC impacts due to the use of equipment potentially generating such air pollutants should also be included (South Coast Air Quality Management District, 2018).

#### 3.2.1.3 Clean Air Act Title V Operating Permit Requirements

Title V of the CAAA created an operating permits program implemented by the states. Sources that meet the definition of a major source of either criteria pollutants or HAPs must apply for and obtain a Title V Operating Permit. For HAPs, a major source is one that has the potential to emit more than 10 tpy of any individual HAP or 25 tpy of any combination of HAPs. For criteria pollutants, the definition of a major source depends on the region's attainment status. Specifically, in an attainment area, a major source is one that has the potential to emit more than 100 tpy of any criteria pollutant with more restricted levels at

various classifications of nonattainment for some criteria pollutants (40 CFR § 70.2). SCAQMD administers the Title V permit program in Los Angeles County.

#### 3.2.1.4 Greenhouse Gas Emissions

Federal regulation of GHGs focuses on reporting and fuel efficiency standards. In October 2009, EPA promulgated a rule (40 CFR Part 98) that requires fuel and gas suppliers, direct GHG emitters, and manufacturers of heavy-duty and off-road vehicles and engines, to monitor and report GHG emissions (i.e., CO<sub>2</sub>, methane [CH<sub>4</sub>], nitrous oxide [N<sub>2</sub>O], sulfur hexafluoride [SF<sub>6</sub>], hydrofluorocarbons [HFCs], perfluorocarbons [PFCs], and other fluorinated gases) if certain thresholds are exceeded. The EPA rule applies to facilities that emit more than 25,000 metric tons of GHGs per year.

The State of California is aggressively pursuing reduction in GHG emissions. The California Global Warming Solutions Act of 2006 (AB 32) was signed in September 2006 and requires California to reduce GHG emissions to 1990 levels by 2020. AB 32 required the development of a scoping plan to identify solutions for reducing GHG emissions; an initial plan was approved in December 2008 with an update approved in May 2014. Pursuant to AB 32, CARB also adopted the Greenhouse Gas Mandatory Reporting Regulation in December 2007. The regulations require certain stationary sources, including but not limited to, cement plants, petroleum refineries, and operators, retail providers and marketers involved in electric generation within California or the import or export of electricity across California borders, to comply with monitoring and reporting guidelines associated with their GHG emissions. The rule also applies to operators of other facilities in California that emit greater than or equal to 25,000 metric tons CO<sub>2</sub>/year from stationary combustion sources.

Signed on April 29, 2015, Executive Order B-30-15 went beyond the restrictions of AB 32 and required GHG emissions in California be reduced by 40 percent below 1990 levels by 2030 and 80 percent below 1990 levels by 2050. On September 2016, Governor Brown signed SB 32 into law, which codified the mandate to reduce GHG emissions by 40 percent below 1990 levels by 2030. In addition, SB 375, signed in September 2008, aligns regional transportation planning efforts, regional GHG reduction targets, and land use and housing allocations. SB 375 requires Metropolitan Planning Organizations (MPOs) to adopt a Sustainable Communities Strategy (SCS) or Alternative Planning Strategy (APS), which will prescribe land use allocations in that MPO's Regional Transportation Plan (RTP). In response to SB 375, the Southern California Association of Governments (SCAG) adopted the 2016-2040 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) in April 2016 to outline a plan for integrating the transportation network and related strategies with an overall land use pattern that responds to projected growth, housing needs, changing demographics, and transportation demands.

In addition, the *Unincorporated Los Angeles County Community Climate Action Plan* (CCAP) (adopted in 2015) addresses the County's approach to mitigating the impacts of climate change resulting from GHG emissions. The key objective of the CCAP is to reduce GHG emissions in the unincorporated areas of Los Angeles County by at least 11 percent below 2010 levels by 2020. There are 26 voluntary or mandatory actions described within the CCAP providing a blueprint for reducing GHG emissions throughout the County. These actions fall within the following categories: green building and energy; land use and transportation; water conservation and wastewater; waste reduction, reuse, and recycling; and land conservation and tree planting (Los Angeles County Department of Regional Planning, 2015).

Locally, SCAQMD Rules 2700-2702 establish a voluntary GHG reduction program within the air quality management. Rule 2701 includes information on certifying, using, and registering GHG reductions and eligible projects. Rule 2702 provides details on how an entity can participate in the GHG reduction program.

# 3.2.1.5 Local Air Quality Rules

SCAQMD is responsible for monitoring air quality and planning, implementing, and enforcing programs designed to attain and maintain NAAQS and CAAQS in all of Orange County and urban portions of Los Angeles, Riverside, and San Bernardino counties. SCAQMD also establishes permitting requirements for stationary sources and is responsible for ensuring that new, modified, or relocated stationary sources do not create net emissions increases and, therefore, are consistent with the region's air quality goals (South Coast Air Quality Management District, 2014a). In addition to implementing the permitting programs described in this section, SCAQMD has additional rules applicable to the regulatory context of this project:

- SCAQMD Rule 2202, On-Road Motor Vehicle Mitigation Options, is a program designed to reduce mobile source emissions from employee commutes. The rule applies to all employers with over 250 employees that report to the same worksite within the SCAQMD. The rule provides employers emission reduction strategies and trip reduction strategies they can implement to meet the designated emission reduction target for their worksite. The employers are required to offset volatile organic compounds (VOCs), NO<sub>x</sub>, and CO (South Coast Air Quality Management District, 2014b). As an alternative to meeting an emission reduction target, Rule 2202 allows employers the option to implement an Employee Commute Reduction Program to reduce the number of work-related vehicle trips (South Coast Air Quality Management District, 2016a).
- SCAQMD Rule 402, Nuisance, prohibits the discharge of air contaminants or other material that cause injury, detriment, nuisance, or annoyance to the public, or that endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property. Odor is considered an air quality issue in the context of NEPA, both at the local level (e.g., odor from wastewater treatment) and at the regional level (e.g., smoke from wildfires). Odors are generally regarded as an annoyance rather than a health hazard. Symptoms of a person's reaction to foul odors can range from psychological (e.g., irritation, anger, or anxiety) to physiological (e.g., circulatory and respiratory effects, nausea, vomiting, and headache) (Yorke Engineering, LLC, 2017).

#### 3.2.2 Current Conditions

The surrounding atmosphere is an important element in assessing an area's ambient air quality. The WLA Campus is in Los Angeles County within the South Coast Air Basin<sup>2</sup> (Figure 3.2-1). The South Coast Air Basin is one of 15 air basins in California and consists of the southwest portion of Los Angeles County, as well as portions of Orange, Riverside, and San Bernardino counties (California Air Resources

<sup>&</sup>lt;sup>2</sup> Los Angeles County is in both the South Coast Air Basin and the Mojave Desert Air Basin. The WLA Campus is completely within the South Coast Air Basin.

Board, 2014a). Each air basin denotes a specific area in the state that is defined by common geographical features and weather patterns, which correspond to similar air pollution burdens. About 25 percent of California's population resides in Los Angeles County (U.S. Census Bureau, 2017a).

## 3.2.2.1 Regional Climate

The overall climate in Los Angeles is influenced by two major topographic features surrounding the greater Los Angeles basin, the Pacific Ocean that bounds to the south and west, and the transverse mountain ranges that bound to the north and east. Other features are the Santa Monica Mountains to the north; the Elysian, Repetto, and Puente Hills to the east and southeast; and the Santa Ana Mountains and San Joaquin Hills to the southeast (Yerkes, McCulloh, Schoellhamer, & Vedder, 1971).

The Pacific Ocean brings a cooling layer of ocean breezes moderating the sun, and the mountain ranges shield the area from potentially intense blasts of desert heat and cold (Pitt, 2017), resulting in a dry climate typically classified as semiarid or Mediterranean (University of Wisconsin, 2005). Proximity to the Pacific Ocean also keeps temperatures stable and mild year-round with annual temperatures averaging 63.8 degrees Fahrenheit (°F) in the region. Summers are warm to hot and nearly completely dry. Winters are mildly cool to warm with occasional rain. The average annual high temperature is 71.7°F and the average annual low temperature is 55.9°F (US Climate Data, 2017).

Differences in topography contribute to large variations in temperature, humidity, precipitation, and cloud cover throughout the region. Average annual rainfall in the region varies with elevation, ranging from four to 25 inches, with the WLA Campus receiving approximately 18 inches of rain annually (LARWQCB, 2011) (Los Angeles County Department of Public Works, 2018a). Most of the rainfall in the area occurs from late autumn to early spring, with very little precipitation during the summer months.

Summers are pleasantly cooled by mild ocean winds with an average seasonal wind speed of 5.2 miles per hour (mph). The sunny skies and mild winds during the summer increase the absorption of incoming solar radiation by the polluted atmosphere of the Los Angeles metropolitan area resulting in problems of smog (University of Wisconsin, 2005). During the fall and winter, seasonal average wind speed increases to 8.7 mph (Weather Spark, n.d.). This increase in average speed is caused by winds that originate inland from cool, dry, high pressure air masses. Overall, inland winds subvert the mild sea breezes during the day and augment the land breeze and lower the overall humidity at night. When fall and winter wind speeds reach at least 28 mph or greater, they are referred to as Santa Ana winds, where strong wind gusts of dry air create a critical risk of wildfires (Masters, 2012). During Santa Ana winds, wind gusts typically reach 60 to 80 mph and have been reported up to 100 mph (National Weather Service, 2017).



Figure 3.2-1. Location of WLA Campus within the South Coast Air Basin and in Relation to Other Air Basins in California

WLA Campus Draft Master Plan

## 3.2.2.2 Regional Air Emissions

Air pollution includes criteria pollutants and toxic air pollutants. Ozone, the primary component of smog, is not emitted directly into the air, but formed through complex chemical reactions between precursor emissions of reactive organic gases (ROG) and NO<sub>x</sub> in the presence of sunlight. ROG are any compounds of carbon, excluding VOCs that are emitted from natural sources (such as plants), incomplete fossil fuel combustion, and the evaporation of chemical solvents and fuels. NO<sub>x</sub> are a group of gaseous compounds of nitrogen and oxygen that result from the combustion of fuels (Carter, Luo, Malkina, & Pierce, 1995).

Cars and trucks (on-road mobile) are the largest sources of air pollution in California, accounting for 36 percent of total emissions from 2000 to 2014. Other major contributors include industrial (21 percent) and electric power (20 percent) (California Air Resources Board, 2016b). Other sources of air pollution emissions include off-road mobile vehicles or equipment, various stationary sources, and a miscellaneous category of emission sources including consumer products such as hairspray, paints, and solvent use (area sources). Table 3.2-4 provides a summary of the sources of criteria pollutants in the Los Angeles County-South Coast Air Basin, including the contributing percentage of total statewide emissions.

Table 3.2-4. 2015 Annual Average Emissions for Criteria Air Pollutants and Precursors (Los Angeles County-South Coast Air Basin)

Sauraa Tura/Catamanu	Estimated Annual Average Emissions (tons per day)					
Source Type/Category	ROG	CO	NO <sub>x</sub>	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
Stationary Sources						
Fuel Combustion	7.9	32.7	33.9	6.4	4.2	4.1
Waste Disposal	4.7	0.7	1.8	0.4	0.1	0.1
Cleaning and Surface Coating	20.3	0.1	0	0	0.9	0.9
Petroleum Production and Marketing	17.3	5.1	1.4	2.5	1.7	1.5
Industrial Processes	6.7	0.3	0.4	0.2	5.9	3.5
Subtotal	56.9	38.9	37.5	9.5	12.8	10.1
Areawide Sources						
Solvent Evaporation	59.8	0	0	0	0	0
Miscellaneous Processes	5.6	27.1	9.4	0.3	40.7	14.6
Subtotal	65.4	27.1	9.4	0.3	40.7	14.6
Mobile Sources						
On-Road Motor Vehicles	71.2	594.2	135.5	1.1	14.2	6.7
Other Mobile Sources	45.9	382.4	70.8	2.7	4	3.4
Subtotal	117.1	976.6	206.3	3.8	18.2	10.1
Grand Total	239.4	1042.6	253.2	13.6	71.7	34.8
Total Emissions Statewide	1544.4	5373.4	1727.9	77.1	1405.6	372.2
Percentage of Emissions	15%	19%	15%	18%	5%	9%

Totals in table may not add exactly due to rounding.

Source: (California Air Resources Board, 2016c)

Mobile sources are the greatest contributors of CO and NO<sub>x</sub> in the Los Angeles County-South Coast Air Basin, contributing about half of all ROG emissions. On-road motor vehicles contribute approximately 60 percent of CO mobile emissions and approximately 65 percent of NO<sub>x</sub> mobile emissions. Stationary sources from fuel combustion and petroleum production are the most significant contributors of SO<sub>x</sub>,

while areawide sources are the greatest contributors of  $PM_{10}$  and  $PM_{2.5}$  resulting from construction and demolition, paved road dust, and cooking (California Air Resources Board, 2016c).

Most stationary sources of criteria pollutant emissions in Los Angeles are minor sources, and include hospitals, small electrical producers and cogeneration facilities, and light commercial and industrial processes. The only significant sources of criteria pollutants and HAPs within 10 miles near the WLA Campus are UCLA, University of Southern California - University Park Campus, Los Angeles International Airport, and Cedars-Sinai Medical Center (California Air Resources Board, 2015a).

#### 3.2.2.3 Criteria Pollutant Attainment Status

Section 107 of the CAAA requires that EPA publish a list of all geographic areas in compliance with the NAAQS, plus those not attaining the NAAQS. As noted in Section 3.2.1.1, areas not in NAAQS compliance are deemed nonattainment areas. Areas that have insufficient data to make a determination are deemed unclassified and treated as being attainment areas until proven otherwise. An area's designation is based on the data collected by the state monitoring network on a pollutant-by-pollutant basis.

As shown Table 3.2-5, EPA has classified the Los Angeles County-South Coast Air Basin as an extreme nonattainment area for ozone, serious nonattainment area for PM<sub>2.5</sub>, and a partial nonattainment area for Pb. EPA also lists the Los Angeles County-South Coast Air Basin as an attainment/maintenance area for CO, NO<sub>2</sub>, and PM<sub>10</sub> as these were previously nonattainment areas, while SO<sub>2</sub> is an unclassifiable/ attainment area. However, the Los Angeles County-South Coast Air Basin is in nonattainment for PM<sub>10</sub> and attainment for Pb compared to the CAAQS (South Coast Air Quality Management District, 2016b) (U.S. Environmental Protection Agency, 2018a).

**NAAQS Pollutant CAAQS** 8-hour Ozone (1997) Nonattainment Nonattainment (Extreme) 8-hour Ozone (2008) Nonattainment (Extreme) 8-hour Ozone (2015) Nonattainment (Extreme) Attainment CO Attainment/Maintenance Attainment NO<sub>2</sub>Attainment/Maintenance Attainment  $SO_2$ Unclassifiable/Attainment Nonattainment PM<sub>10</sub> Attainment/Maintenance  $PM_{2.5}$ Nonattainment (Moderate) Nonattainment Pb Nonattainment (Partial) Attainment

Table 3.2-5. South Coast Air Basin Attainment Status

Source: (South Coast Air Quality Management District, 2016b) (U.S. Environmental Protection Agency, 2018a)

Consequently, the general conformity rule is applicable for emissions of CO, NO<sub>2</sub>, PM<sub>2.5</sub>, PM<sub>10</sub>, ozone precursors (VOCs and NO<sub>x</sub>), and Pb from construction and operation of proposed projects in the Los Angeles County-South Coast Air Basin. The applicable general conformity *de minimis* thresholds and emissions threshold for the South Coast Air Basin are shown in Table 3.2-6.

Pollutant **Area Type Emission Threshold** (tpy) Ozone (VOC or NOx) Nonattainment (Extreme) 10 CO 100 Attainment/Maintenance  $NO_2$ Attainment/Maintenance 100 PM<sub>10</sub> Attainment/Maintenance 100 PM<sub>2.5</sub>Nonattainment (Serious) 70 Pb Nonattainment (Partial) 25

Table 3.2-6. General Conformity de minimis Thresholds for Projects in the South Coast Air Basin

Source: (U.S. Environmental Protection Agency, 2017d)

#### 3.2.2.4 Local Air Emissions

CARB's air quality monitoring program collects real-time measurements of ambient level pollutants at over 40 sites located throughout the state. The data generated are used to define the nature and severity of pollution in California, determine which areas of California are in attainment or nonattainment, identify pollution trends in the state, and develop air models and emission inventories.

A CARB air monitoring site is located on the WLA Campus at Wilshire and Sawtelle Boulevards (34.05109 N, -118.45640 W) and is most representative of the air quality in the study area (Figure 3.2-2). This station does not monitor  $PM_{10}$  or  $PM_{2.5}$ . The last three years of available monitoring data for the WLA Campus is summarized in Table 3.2-7 to illustrate the study area's general air quality trends.

Table 3.2-7. WLA Campus Air Monitoring Data

Pollutant	2014	2015	2016
Ozone			
Maximum concentration (1-hour, ppm)	0.116	0.102	0.085
Maximum concentration (8-hour, ppm)	0.094	0.072	0.073
Number of days federal standard exceeded (8-hour)	5	2	2
Number of days state standard exceeded (1-hour)	1	2	0
Carbon Monoxide (CO)			
Maximum concentration (1-hour, ppm)	2.2	1.6	2.2
Maximum concentration (8-hour, ppm)	1.3	1.4	1.1
Number of days federal standard exceeded (1-hour)	0	0	0
Number of days federal standard exceeded (8-hour)	0	0	0
Number of days state standard exceeded	NA	NA	NA
Nitrogen Dioxide (NO <sub>2</sub> )			
Maximum concentration (1-hour, ppm)	0.064	0.068	0.055
98th Percentile 1-hour Concentration (ppm)	0.054	0.049	0.049
National Annual Standard Design Value (ppm)	0.013	0.012	0.012
California Annual Average (ppm)	0.013	0.011	0.011
Number of days state standard exceeded	0	0	0
Nitrogen Oxide (NO)			
Maximum concentration (1-hour, ppm)	0.155	0.092	0.117
Oxides of Nitrogen (NO <sub>x</sub> )			
Maximum concentration (1-hour, ppm)	0.203	0.132	0.166

Source: (California Air Resources Board, 2014b)

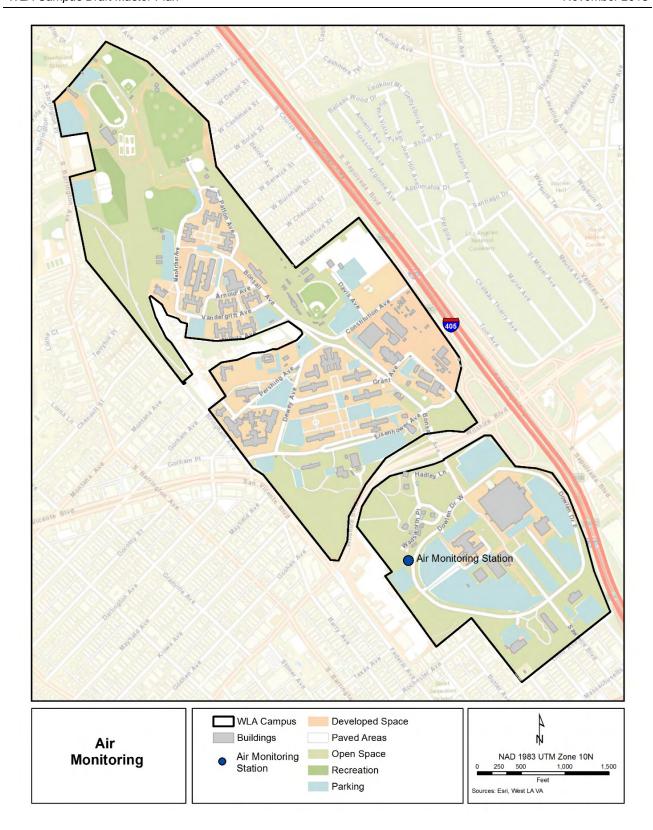


Figure 3.2-2. Location of Air Quality Monitoring Station on the WLA Campus

Table 3.2-8 lists the criteria pollutant emissions generated on the WLA Campus for 2015 and 2016, and Table 3.2-9 lists the TAC emissions as reported to SCAQMD. Primary stationary sources of criteria pollutants and TACs (e.g., diesel exhaust) on the WLA Campus include natural gas boilers, cogeneration boilers, and emergency generators. Emergency generators are operated only during emergency conditions (e.g., electrical outages) and under permitted requirements.

Table 3.2-8. Criteria Pollutant Emissions from WLA Campus

Pollutant	2015 Emissions (tons/year)	2016 Emissions (tons/year)
ROG	5.1	N/A
CO	1.822	4.038
NO <sub>x</sub>	5.020	7.985
SO <sub>x</sub>	0.071	0.071
PM	2.044	2.262
PM <sub>10</sub>	1.7	N/A
PM <sub>2.5</sub>	1.5	N/A
VOC	5.103	9.500

Sources: (California Air Resources Board, 2015a) (South Coast Air Quality Management District, n.d.)

Table 3.2-9. TAC Emissions from WLA Campus

Pollutant	2015 Emissions (lbs/year)	2016 Emissions (lbs/year)
1,3-Butadiene	2.222	5.177
Arsenic	0.016	0.038
Asbestos	0.054	0.056
Benzene	3.356	5.893
Cadmium	0.015	0.036
Chromium, hexavalent (and compounds)	0.001	0.002
Formaldehyde	630.025	44.416
Pb	0.084	0.200
Ammonia	767.064	677.220
Naphthalene	0.271	0.539
Nickel	0.039	0.094
Polycyclic aromatic hydrocarbons, total, without individual components reported	0.393	0.898

Sources: (California Air Resources Board, 2015a) (South Coast Air Quality Management District, n.d.)

The WLA Campus has a Title V facility permit (facility ID 14966, latest revision dated April 20, 2016) to operate the pieces of equipment listed below that may generate HAP, criteria pollutant, and TAC emissions noted in Table 3.2-8 and Table 3.2-9:

- Three natural gas cogeneration boilers (>50 million British Thermal Unit per hour (MMBtu/hr)) at Building 295 (Steam Plant);
- Two natural gas boilers (5-20 MMBtu/hr) associated with the laundry facility in Building 508;

- 11 electric diesel emergency generators (>500 horsepower (HP)) collocated near underground and aboveground storage tanks; see Section 3.12.2.5 and Figure 3.12-1;
- 19 electric diesel emergency generators (50-500 HP) collocated near underground and aboveground storage tanks; see Section 3.12.2.5 and Figure 3.12-1;
- Three selective catalytic reduction air pollution control systems in Building 295 (Steam Plant), part of boiler emissions;
- Three storage tanks with liquefied petroleum gas near Building 295 (Steam Plant) at entrance to North Campus east of Bonsall Avenue, south of Eisenhower Avenue; and
- Service station storage and dispensing gasoline north of Building 510 (South Coast Air Quality Management District, n.d.).

RideLinks, Inc. is certified by the SCAQMD to assist employers with Rule 2202 mobile emission compliance options, including rideshare, credits, and offset programs (RideLinks, Inc., 2016). RideLinks, Inc. purchased mobile emission credits for the WLA Campus from SCAQMD to help comply with Rule 2202. From June 16 to December 15, 2017, RideLinks, Inc. emissions credit purchases for VA cost approximately \$81,000 (U.S. Department of Veterans Affairs, 2017c).

As discussed in more detail in Section 3.4, Geology and Soils, the WLA Campus currently has 14 oil wells; 11 are active, two are plugged and abandoned, and one is idle (California Department of Conservation, 2017). The active wells are in an industrial area on the eastern part of the WLA Campus near the intersection of Constitution Avenue and I-405. These wells are operated by Breitburn through a federal lease and permitted through the Department of Conservation's Division of Oil, Gas, and Geothermal Resources. These oil wells are a source of methane emissions, VOCs, and air toxics, such as benzene, ethylbenzene, and n-hexane (U.S. Environmental Protection Agency, 2016c).

#### 3.2.2.5 Existing Sensitive Receptors

Some members of the population are especially sensitive to air pollutant emissions and should be given special consideration when evaluating air quality impacts from projects. These people include children, the elderly, and persons with pre-existing respiratory or cardiovascular illness, including Veterans receiving medical care. Structures that house these persons or places where they gather are defined as sensitive receptors. SCAQMD considers a sensitive receptor to be any residence including private homes, condominiums, apartments, and living quarters, schools, preschools, daycare centers, and health facilities such as hospitals or retirement and nursing homes (SCQAMD Rule 1470).

For purposes of analyzing impacts, SCAQMD considers a sensitive receptor where it is possible that an individual could remain for 24 hours. However, the analysis in this PEIS is more conservative and identifies locations where sensitive receptors may work or visit during a normal eight-hour workday.<sup>3</sup> Figure 3.2-3 shows the various sensitive receptor locations within the WLA Campus footprint.

<sup>&</sup>lt;sup>3</sup> The 24-hour exposure scenario includes residents who are living on the WLA Campus or are on the WLA Campus for an extended stay. The more conservative, eight-hour scenario includes employees or visitors to the WLA Campus receiving treatment.

The South Campus is a sensitive receptor area with the elderly and persons with pre-existing respiratory or cardiovascular illness working, living, or visiting and frequently traveling between buildings. Additionally, there are two sensitive receptor areas located within the general WLA Campus footprint that are either not currently owned or operated by VA; these are the Brentwood School athletic fields and the CalVet facility.

### 3.2.2.6 Existing Odors

To help identify permitted stationary sources that could also generate odors, CARB's Pollution Mapping Tool was searched by facility type (e.g., refinery, oil and gas production) (California Air Resources Board, 2015b). Based upon the Pollution Mapping Tool results, there are no known major odor sources located near or within the existing WLA Campus.

### 3.2.2.7 Greenhouse Gas Emissions and Climate Change

Established by the World Meteorological Organization and the United Nations Environment Programme, the Intergovernmental Panel on Climate Change (IPCC) assesses scientific, technical, and socioeconomic information relevant to the understanding of climate change, potential impacts, and adaptation and mitigation options (IPCC, 2014). The IPCC defines climate change as a measurable change, over time, in the state of the climate. Since the 1950s, scientists have observed warming temperatures in both the atmosphere and oceans. Average global surface temperatures increased 1.33°F from 1900 to 2000 (IPCC, 2013). Varying scenarios predict an average global surface temperature increase of between 2°F and 11°F over the next 100 years (IPCC, 2013). Resulting from the increased temperatures, snowfall and ice amounts have decreased and correspondingly, sea levels have risen. Causes of this change include both natural and human-caused, or anthropogenic, GHG emissions (IPCC, 2014).

The Earth's atmosphere contains naturally occurring GHGs such as water vapor, CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, and ozone. Humans emit additional contributions of CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, and CFCs. Anthropogenic emissions include some chemicals that affect climate and simultaneously emit others that affect air pollution, with some emissions affecting both (IPCC, 2013). Since the industrial revolution, GHG emissions resulting from human activities have increased by 70 percent, as demonstrated in Figure 3.2-4 (IPCC, 2014).

Amounts and intensities of GHG emissions are driven by several factors: population size, type of economic activity, social culture, types and amounts of energy usage, patterns of land use, and climate policy. Recent climate extremes, such as extreme heat waves and droughts, catastrophic floods, and high-intensity hurricanes and cyclones result from changes in the climate. Continued increased GHG emissions increase the likelihood of severe weather events. Of particular interest to the majority of California is the very likely prediction that heat waves would "occur more often and last longer," which would increase the danger of wildfire (IPCC, 2014).

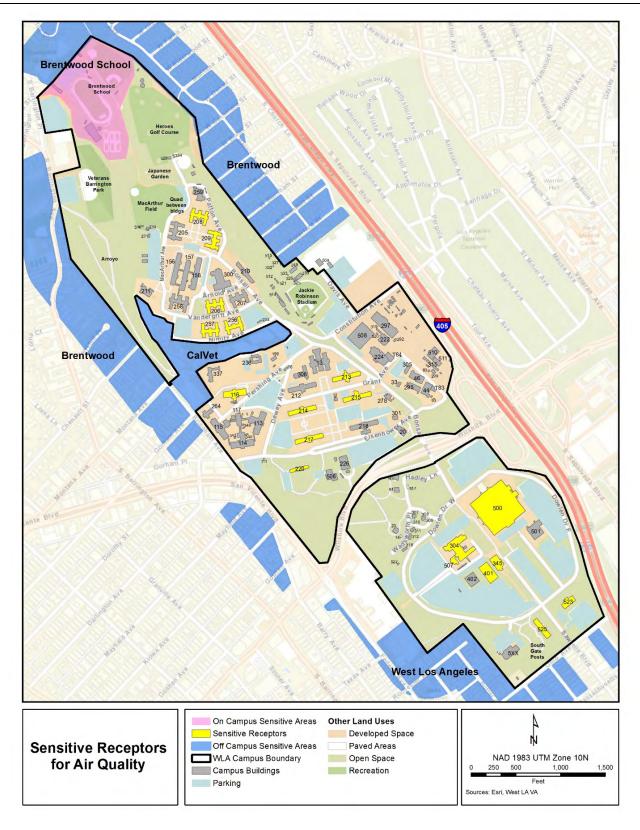


Figure 3.2-3. Sensitive Receptors for Air Quality on the WLA Campus

On a national level, U.S. GHG emissions netted 6,511 million metric tons of CO<sub>2</sub> equivalents (MMTCO<sub>2</sub>e) in 2016 after taking into account sequestration from the land sector (decrease of 2.5 percent from 2015 net emissions). Nationally, 81 percent of GHGs emitted were CO<sub>2</sub>, with transportation and electricity economic sectors each emitting 28 percent (U.S. Environmental Protection Agency, 2018b).

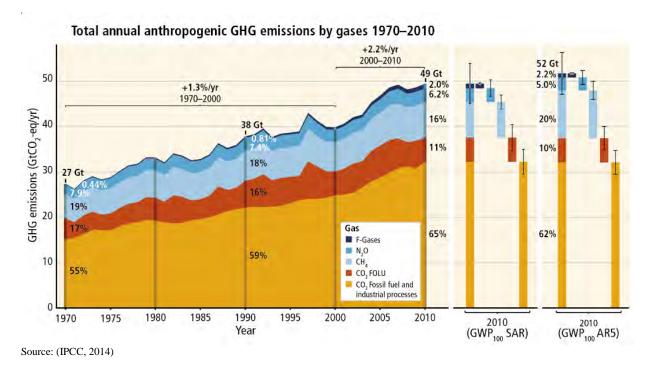
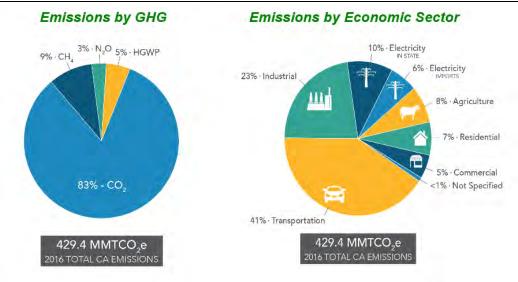


Figure 3.2-4. Total Annual Anthropogenic GHG Emissions by Gases (1970 – 2010)

California maintains a GHG inventory that provides estimates of anthropogenic GHG emissions using calculations stemming from the 2016 IPCC Guidelines. In 2016, California recorded a total of 429.4 MMTCO2e. The majority (83 percent) of California's GHG emissions are CO<sub>2</sub>. The transportation sector emits 41 percent of the annual GHGs in the state with industrial sources emitting 23 percent (California Air Resources Board, 2018). Further breakdowns by both type of GHGs and economic sector are provided in Figure 3.2-5.



Source: (California Air Resources Board, 2018)

Figure 3.2-5. California GHG Emissions by Type and Economic Sector

California ranks second in the United States for GHG emissions due to its size and population. However, in 2015, the U.S. Energy Information Administration (EIA) ranked California as the third lowest for emissions per person (Figure 3.2-6) (EIA, 2018).

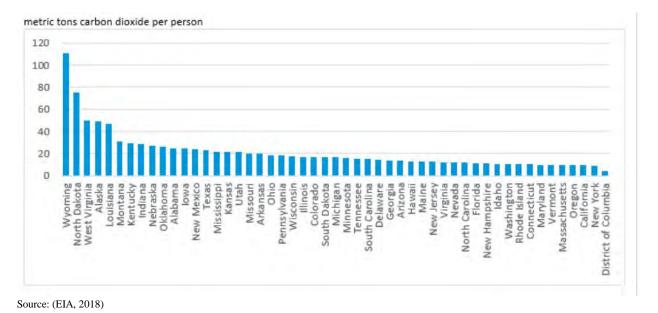


Figure 3.2-6. Ranked per Capita GHG Emissions for the United States

Current sources of GHG emissions from the WLA Campus include stationary and mobile equipment burning fossil fuels, industrial emissions related to electrical generation, and commuting. Since 2012, VA has reported GHG emissions attributed primarily to the three large natural gas boilers that distribute steam for hot water generation and heating to the WLA Campus. In 2017, VA reported GHG emissions of 11,667 metric tons of CO2 equivalent (MTCO<sub>2</sub>e) for the WLA Campus, which is nearly an eight percent decrease from 2016 (ALTA Environmental, 2018).

# 3.3 Cultural Resources Including Historic Properties

This section describes the history and cultural background of the WLA Campus, including the regulatory framework related to cultural resources documenting archeological, architectural, and historic properties to be analyzed.

## 3.3.1 Regulatory and Policy Framework

This section provides federal laws and regulations and VA directives that are applicable to cultural resources, including historic properties, for the WLA Campus.

#### 3.3.1.1 National Historic Preservation Act

The National Historic Preservation Act of 1966 (NHPA), as amended (54 U.S.C. § 300101 et seq.), requires federal agencies to consider the potential effects of its undertakings on historic properties and provide the ACHP, an independent federal agency responsible for promoting preservation and enhancement of the country's historic properties, the opportunity to comment on such undertakings. A historic property is "any district, site, building, structure, or object included in, or eligible for, the NRHP, and hence entitled to consideration under NHPA." VA is using the information and documentation required to prepare the PEIS and record of decision (ROD) to comply with Section 106 of NHPA in place of the procedures in 36 CFR Part 800.

## 3.3.1.2 Archaeological Resources Protection Act

The Archaeological Resources Protection Act (ARPA) (Public Law [Pub. L.] 96-95; 16 U.S.C. § 470aa-470mm) recognizes the significance of archeological resources to our understanding of American history and set policy for the protection of archeological deposits on public lands. ARPA also encourages cooperation between the Federal Government, individuals, and professional archeologists to exchange information concerning archeological properties.

## 3.3.1.3 American Indian Religious Freedom Act

The American Indian Religious Freedom Act (42 U.S.C. § 1996) established federal policy to protect and preserve the inherent rights of freedom for Native groups to believe, exercise, and express their traditional religions. Their rights include access to sites, use and possession of sacred objects, and freedom to worship through ceremonial and traditional rites.

# 3.3.1.4 Native American Graves Protection and Repatriation Act

The Native American Graves Protection and Repatriation Act (NAGPRA) (Pub. L. 101-601, 25 U.S.C. § 3001 et seq.) is a federal statute providing protection for Native American burial sites, human remains, sacred and funerary objects, and other objects of cultural significance on federal lands or under federal jurisdiction. NAGPRA also requires consultation with federally recognized Native American and American Indian tribes and the lineal descendants of past Native American communities to make determinations about the retention and disposition of cultural items.

## 3.3.1.5 EO 13175 and VA's Tribal Consultation Policy

EO 13175, Consultation and Coordination with Indian Tribal Governments, requires federal agencies to consult with Native American and American Indian tribes in making decisions that could affect Native American interests, and work with the tribe(s) on these matters. In 2011, VA adopted its federal-tribal consultation policy in accordance with EO 13175. Through this policy, VA seeks to establish positive government-to-government relations between VA and all federally recognized tribes through meaningful and good faith consultation.

## 3.3.1.6 VA Directive 7545: Cultural Resource Management

Cultural resources, as defined in VA Directive 7545, *Cultural Resource Management*, includes "all aspects of the human environment that have historical, architectural, archeological, or cultural significance, including, but not limited to, historic properties, archeological resources and data, Native American ancestral remains and cultural items, religious places and practices, historical objects and artifacts, historical documents, and community identity". VA Handbook 7545, *Cultural Resource Management Procedures*, summarizes the major laws, EOs, and internal policies governing VA's historic preservation and cultural resource management responsibilities and compliance procedures.

# 3.3.1.7 U.S. Department of Veterans Affairs Program Comment for Vacant and Underutilized Properties

On October 26, 2018, the ACHP published notice of acceptance of VA's Program Comment regarding Vacant and Underutilized Buildings, an alternative to standard compliance with Section 106 developed in accordance with 36 CFR § 800.14, in the *Federal Register*. The Program Comment enables VA to proceed with certain undertakings following an expedited review process to find uses for vacant and underutilized properties in its inventory in the following order: (1) use by VA; (2) third-party use via an EUL or NHPA Section 111 lease; (3) sale, transfer, exchange, or conveyance; and (4) deconstruction and demolition. VA and the parties to the Program Comment consultation effort developed programmatic mitigation and, in cases of historic buildings that provided space for hospitals, medical care, staff offices or living quarters, project-specific mitigation to resolve potential adverse effects.

#### 3.3.2 Current Conditions

#### 3.3.2.1 Historic Context

Archeological evidence suggests that humans inhabited the present-day greater Los Angeles area between 11,000 and 15,000 years ago, although some archeologists have suggested earlier settlement. From roughly 5000 B.C. to 1500 B.C., people lived in small groups and depended heavily on vegetation for their daily diet. By approximately 800 A.D., people of the Los Angeles Basin had expanded their diet to include acorns and other plants, as well as local game hunted with projectile points. The Gabrielino or Tongva people controlled the Los Angeles Basin at the time of Spanish exploration in the late 1760s. Chiefs managed villages with the assistance of counselors, and most positions within the tribal hierarchy were hereditary (Duke Cultural Resources Management, 2014).

Spanish Territorial Governor Juan Alvarado granted Francisco Sepulveda, a Spanish military officer, ceded outright title to the Rancho San Vicente y Santa Monica in 1839 following more than a decade of land disputes. This Rancho contained the portions of the WLA Campus west of present-day Sepulveda Boulevard. Sepulveda sold his land holdings to Robert Baker in the 1870s. Governor Manuel Micheltorena granted the Rancho San Jose de Buenos Ayres to Maximo Alanis in 1843. This Rancho, later acquired by John Wolfskill, contained the portions of the WLA Campus east of Sepulveda Boulevard, as well as the Los Angeles National Cemetery (LANC) (Duke Cultural Resources Management, 2014).

Congress authorized the creation of the National Home for Disabled Volunteer Soldiers (NHDVS), originally known as the National Asylum for Disabled Volunteer Soldiers, in 1865 to care primarily for disabled Veterans of the Union Army of the Civil War (Julin, 2007). The NHDVS soon expanded its mission to include Veterans of the Spanish-American War and other American conflicts, as well as infirmity due to advanced age or mental condition. The WLA Campus was initially developed in 1887 as the Pacific Branch of the NHDVS (Julin, 2007).

The NHDVS established the Pacific Branch on land donated by Robert and Arcadia Bandini Baker, John Percival Jones, and John Wolfskill (Loomis, 2008). The firm of Peters & Burns served as supervising architects of the Campus (The Soldier's Home, 1888). The Campus steadily grew, and it included 11 barracks, an assembly hall, bandstand, mess hall, library, elaborate gardens, and the Barry Hospital by 1908 (Figure 3.3-1). Most of those buildings and landscape features has since been demolished. Rail lines provided necessary supplies to the site and a trolley system connected the Campus to nearby Santa Monica.



Figure 3.3-1. Streetscape of the WLA Campus (ca. 1905)

A series of fires in the late 1920s convinced Campus and NHDVS officials of the need for "fireproof" buildings (Veterans' Debt to Frederick, 1924). In 1927, the NHDVS replaced the wood-framed Barry Hospital with the James W. Wadsworth Hospital. Beginning in 1929, nearly all the wood barracks and public buildings were demolished and replaced with brick or stucco construction (National Park Service, 2014). Construction of the large buildings necessitated removal of nearly all the lavish gardens previously seen on the grounds.

In 1930, Congress passed legislation authorizing the merger of three government agencies addressing Veterans and their benefits into the new Veterans Administration (National Park Service, 2014). Following World War II, Veterans Administration leadership enacted a nationwide program to increase research at its facilities (Hannah & Smith, 2016). Research projects greatly expanded at the WLA Campus, which today is home to one of the largest research programs in VA (U.S. Department of

Veterans Affairs, 2017d). Initially consolidated in Wadsworth Hospital, research is now conducted across several buildings on the WLA Campus.

On February 9, 1971, a massive earthquake struck Los Angeles, causing severe damage to the WLA Campus. As a result, the Veterans Health Administration (VHA) enacted new seismic safety requirements nationwide. Thirty WLA Campus buildings were determined to be unsafe, including the Wadsworth Hospital, which was demolished in 1972 and replaced with Building 500 in 1977. Figure 3.3-2 shows the WLA North Campus as it was in 1984. More recent WLA Campus construction includes several large buildings on the South Campus.

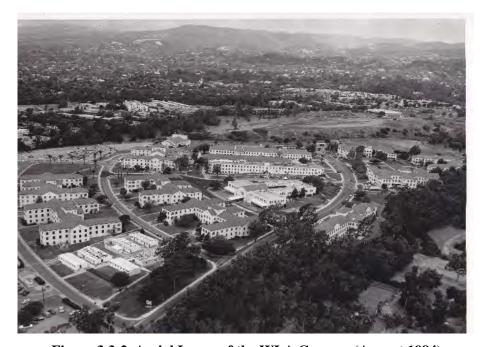


Figure 3.3-2. Aerial Image of the WLA Campus (August 1984)

## 3.3.2.2 WLA Veterans Affairs National Register Historic District

The West Los Angeles Veterans Affairs National Register Historic District (WLA VA NRHD) was listed in the NRHP in 2014 for its Mission Revival architecture, and as a symbol of the care provided by the Federal Government to Veterans. Properties listed in the NRHP are also automatically entered into the California Register of Historical Resources. The WLA VA NRHD includes the entirety of the North Campus, the northwest corner of the South Campus, and the whole LANC (Figure 3.3-3).

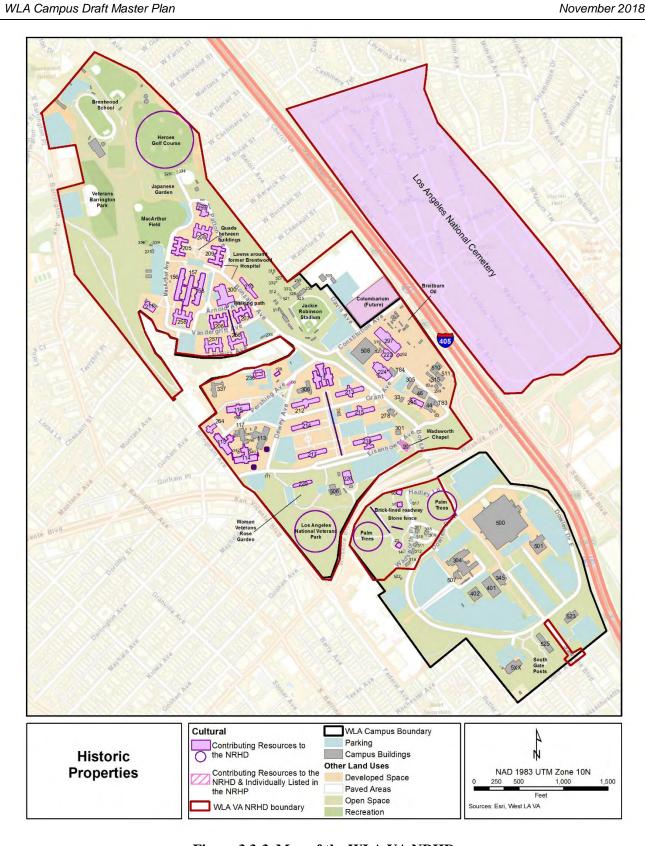


Figure 3.3-3. Map of the WLA VA NRHD

The district contains multiple buildings; objects, including the gate posts at the intersection of Bonsall and Ohio Avenues; and structures and landscape features, including the palm trees between Building 23 and Wilshire Boulevard. The arrangement of certain roadways and buildings is also historic, including the triangle formed by Bonsall, Dewey, and Eisenhower Avenues. Buildings, structures, and landscape features that contribute to the historic character of the WLA VA NRHD were utilized between 1923 and 1952, the period of significance.<sup>4</sup> Not all areas of the campus are included in the WLA VA NRHD. Notably, the main hospital (Building 500) and the newer buildings surrounding the hospital (e.g., Buildings 401 and 402) are outside the district boundaries.

Mission Revival architecture is characterized by the use of stucco, terra cotta roof tiles, and arches. The style was popular, especially in California, in the early  $20^{th}$  century and reflects the architectural style of  $18^{th}$  century Spanish missions located in California. Significant examples of Mission Revival style in the WLA VA NRHD include Building 157 and Building 220 (Figure 3.3-4). Not all buildings in the WLA VA NRHD reflect these architectural traits, but non-Mission Revival buildings may still contribute to the district because they were used in service to Veterans (Figure 3.3-5). With limited exceptions, the buildings of the WLA VA NRHD are between one and three stories in height and have linear, rather than rounded, footprints. Table 3.3-1 lists the buildings that contribute to the WLA VA NRHD.



Figure 3.3-4. Building 157, September 2017



Figure 3.3-5. Building 116, September 2017

Table 3.3-1. Contributing Elements of the WLA VA NRHD – Buildings

Building	Name/Function	Date of Construction	Architectural Style	
13	Storage	1929	Art Deco	
14	Garage	1900	None	
20	Wadsworth Chapel	1900	Carpenter Gothic/Shingle	
23	Quarters	1900	Shingle	
33	Quarters	1893	Shingle/Queen Anne	
46	Engineering Shop	1922	None	
66	Streetcar Depot	1893	Shingle	
90	Duplex Quarters	1927	Colonial Revival	

<sup>&</sup>lt;sup>4</sup> The length of time when a property was associated with important events, activities, or persons, or attained the characteristics which qualify it for National Register listing.

Building	Name/Function	Date of Construction	Architectural Style
91	Duplex Quarters	1927	Colonial Revival
111	West Gate House	1936	None
114	Research Lab	1930	Richardson Romanesque elements
115	Research Lab	1930	Richardson Romanesque elements
116	Outleased	1930	Richardson Romanesque elements
117	Mortuary	1930	None
156	Vacant	1923	Mission Revival elements
157	Vacant	1923	Mission Revival
158	Vacant	1923	Mission Revival elements
199	Hoover Barracks- Vacant	1932	None
205	Supportive Housing (future)	1937	Mission Revival elements
206	Mental Health Homeless	1940	Mission Revival
207	Supportive Housing (future)	1940	Mission Revival elements
208	Supportive Housing (future)	1945	Mission Revival elements
209	Permanent Supportive Housing	1945	Mission Revival elements
210	Research/MIREC	1945	Mission Revival elements
211	Brentwood Theater	1946	Mission Revival
212	Sub-Acute Care	1938	Mission Revival
213	NHCU Pod & Dialysis	1938	Mission Revival
214	Domiciliary	1938	Mission Revival
215	NHCU	1938	Mission Revival
217	Domiciliary	1941	Mission Revival
218	Administration Building	1941	Mission Revival
220	Dental/Research	1939	Mission Revival
222	Mail Out Pharmacy	1938	Streamline Moderne elements
224	Outleased – Laundry	1946	Streamline Moderne
226	Wadsworth Theater	1940	Mission Revival
236	Police Headquarters	1945	None
256	Day Treatment Center Mental Health	1946	Mission Revival elements
257	Mental Health/New Directions/Methadone	1946	Mission Revival elements
258	Administration/Mental Health	1946	Mission Revival elements
259	Compensated Work Therapy	1945	None
264	FBI	1944	None
292	Water Treatment Plant	1946	None
295	Steam Plant	1947	Streamline Moderne
297	Supply Warehouse	1948	None
300	Dietetics/Kitchen	1952	Mission Revival elements
n/a	Garden House/Memorial to Women Veterans	1947	None

Source: (National Park Service, 2014)

Certain landscape features of the WLA Campus also have been listed in the NRHP as contributing elements to the WLA VA NRHD. Table 3.3-2 lists the landscape features and objects that contribute to the WLA VA NRHD.

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Table 3.3-2. Contributing Elements of the WLA VA NRHD – Landscape

Feature	Date of Construction	
South Gate Posts	c. 1892	
Golf Course	1946	
Los Angeles National Veterans Park	c. 1930	
Palm tree grid between Building 23 and Wilshire Boulevard	c. 1920	
Stone fence northeast of Building 23	c. 1930	
Open lawn in the residential Quarters area	c. 1900	
Brick-lined roadway between Building 23 and Wilshire Boulevard	c. 1920	
Bonsall Avenue from the Ohio Avenue entrance to the split at Dowlen Drive	c. 1890	
Palm trees lining Bonsall Avenue	c. 1920	
Triangular roadway system bound by Bonsall, Dewey, and Eisenhower Avenues	c. 1940	
Lawns of Buildings 212, 213, 214, 215, 217, and 218 and the walking paths through each	c. 1940	
Paths between Building 13 and the Wadsworth Theater (Building 226), and the paths connecting these buildings	c. 1940	
Rows of trees behind Building 220	c. 1939	
Fig trees at the facades of Building 113 and 114	c. 1930	
West Arroyo	c. 1890	
Eucalyptus trees north of Constitution Avenue	c. 1890	
Lawns around the buildings of the former Brentwood Hospital	c. 1946	
Quad formed by Building 205, 208, and 209	c. 1945 (altered 1965)	
Walking path between Buildings 256 and 300	c. 1952	

Source: (National Park Service, 2014)

# 3.3.2.2.1 Wadsworth Chapel (Building 20)

Constructed in 1900, the Wadsworth Chapel (Building 20) was individually listed in the NRHP in 1972 for its Carpenter Gothic architecture (National Park Service, 1972a). It also is included as a contributing element to the WLA VA NRHD (National Park Service, 2014). As a NRHP-listed property, the building also is listed in the California Register of Historical Resources. Building 20 has wood cladding, a multi-pitch roof, and arched roof brackets (Figure 3.3-6). The chapel features the unique design of housing two separated interior religious spaces, one for Protestant services and one for Catholic. The dual use of the interior space is indicated by the exterior towers.



Figure 3.3-6. Wadsworth Chapel (Building 20), November 2017

# 3.3.2.2.2 Streetcar Depot (Building 66)

The Streetcar Depot (Building 66), also known as the Trolley Stop or the News Stand, was constructed in 1893 (Historic American Building Survey, 2014).<sup>5</sup> The Streetcar Depot was individually listed in the

<sup>&</sup>lt;sup>5</sup> The NRHP nomination lists a construction date of 1900, but subsequent research corrected the date to 1893.

NRHP in 1972 and therefore in the California Register of Historical Resources. The wood-framed building was used as a streetcar station. It is one-story in height and consists of a single room with an open porch (Figure 3.3-7). Relocation of the building within the Campus and modifications to the building were documented in the NRHP nomination (National Park Service, 1972b). The Streetcar Depot also is included as a contributing element to the WLA VA NRHD (National Park Service, 2014).

# 3.3.2.3 Archeological Sites

Based on past campus archeological investigations, VA has determined that the WLA Campus has potential to



Figure 3.3-7. Streetcar Depot (Building 66), September 2017

yield archeological materials related to Native American lifeways and the history of the campus as a place of care for Veterans (Duke Cultural Resources Management, 2014). In 2014, two archeological sites were identified on the WLA Campus.<sup>6</sup> A determination of eligibility of these sites has not been completed at this time. To date, VA has precluded any activities at these two sites.

## 3.3.2.4 Traditional Cultural Properties

Traditional cultural properties (TCPs) are resources eligible for inclusion in the NRHP for association with the practices, beliefs, lifeways, and traditions of a community. A 2017 TCP study assessed the possibility of TCPs on the campus related to Native American, Veterans, and other communities. This study determined that there are no TCPs on the WLA Campus, including any Native American religious sites or cultural practices (Row 10 Historic Preservation Solutions, LLC, 2017).

# 3.3.2.5 Paleontological Properties

Paleontological resources, commonly known as fossils, are the remains of organisms that died thousands or even millions of years ago. There are no known paleontological resources on the WLA Campus. Section 3.4, Geology and Soils, describes the paleontological environment of the WLA Campus.

# 3.4 Geology and Soils

This section describes the regulatory and policy framework, and existing environment at the WLA Campus for geology and soils. The U.S. Geological Survey (USGS) is the primary government organization responsible for the nation's geological resources. USGS defines geology as an interdisciplinary science with a focus on the following aspects of earth sciences: geologic hazards and disasters, climate variability and change, energy and mineral resources, ecosystem and human health, and groundwater availability (USGS, 2016a).

Section 3.4 provides an overview on the regulatory setting for geology and soils; the physiographic and geologic setting of the WLA Campus; a description of potential geologic hazards (earthquakes, seismic

<sup>&</sup>lt;sup>6</sup> The exact location of archeological sites is restricted to protect the resource.

ground shaking, liquefaction, landslides, and land subsidence) on the WLA Campus; oil resources (methane zone) within the WLA Campus; soils found on the WLA Campus; and the potential for paleontological/fossil resources.

# 3.4.1 Regulatory and Policy Framework

This section provides federal, state, and local regulations that are applicable to geology and soil concerns for the WLA Campus.

## 3.4.1.1 Earthquake Hazards Reduction Act

The Earthquake Hazards Reduction Act of 1977 (Pub. L. 95–124) established the National Earthquake Hazards Reduction Program (NEHRP). Since inception of the NEHRP, federal agencies, including the Federal Emergency Management Agency (FEMA), USGS, National Science Foundation, and National Institute of Standards and Technology (NIST), have coordinated efforts to reduce risks to life and property that result from earthquakes. The NEHRP's primary goals include:

- Develop effective practices and policies for earthquake loss reduction and accelerate their implementation;
- Improve techniques for reducing earthquake vulnerabilities of facilities and systems;
- Improve earthquake hazards identification and risk assessment methods, and their use; and
- Improve the understanding of earthquakes and their effects.

# 3.4.1.2 EO 13717, Establishing a Federal Earthquake Risk Management Standard

Signed in February 2016, EO 13717, Establishing a Federal Earthquake Risk Management Standard, requires federal agencies to take measures that improve occupant safety within buildings that are owned, leased, financed, or regulated by the Federal Government. Within 90 days of enactment of the EO, federal agencies were required to ensure that all new buildings were compliant with the earthquake-resistant design provisions of the 2015 editions of the International Building Code (IBC) or the International Residential Code, nationally recognized building codes promulgated by the International Code Council, or equivalent codes.

#### 3.4.1.3 Alguist-Priolo Earthquake Fault Zoning Act

The State of California enacted the Alquist-Priolo Earthquake Fault Zoning Act in 1971 following a significant earthquake event in San Francisco. The intent of this law is to help ensure public safety by prohibiting the siting of facilities and structures across traces of active faults that constitute a potential hazard from surface faulting or fault creep. The Act addresses risks posed by surface fault ruptures but no other earthquake hazards.

## 3.4.1.4 Los Angeles County Department of Public Works

The Los Angeles County Department of Public Works (DPW) requires an erosion and sediment control plan (ESCP) for all projects that exceed one acre or more of ground disturbance. An ESCP is also

required for all projects where grading will occur, at non-residential sites, and at residential sites of six stories or greater (Los Angeles County Department of Public Works, 2013).

## 3.4.1.5 VA Seismic Design Requirements – H-18-8

VA H-18-8, *Seismic Design Requirements*, set standards for VA buildings and facilities to help ensure that VA medical facilities are resistant to fire, earthquake, and other natural disasters. The standards apply to new critical and essential facilities, ancillary facilities, and retrofits and evaluations for existing facilities.

#### 3.4.1.6 Veterans Health Administration Directive 2005-019

VHA Directive 2005-019, *Seismic Safety of VHA Buildings*, establishes a policy for the seismic safety of VHA essential facilities remaining operational following earthquakes. Under this directive, all new buildings must be structurally designed and constructed in compliance with VA *Seismic Design Requirements* (H-18-8) and the IBC.

#### 3.4.1.7 VA Directive 7512

VA Directive 7512 establishes policy regarding the seismic safety of VA buildings. VA Directive 7512 adopts the 2015 IBC for the design and construction of new VA buildings. For existing buildings, VA Directive 7512 mandates compliance with the latest version of NIST's *Standards of Seismic Safety for Existing Federally Owned and Leased Buildings*. In addition, VA Directive 7512 established Seismic Safety Coordinators to coordinate the agency's compliance with EO 13717.

#### 3.4.2 Current Conditions

# 3.4.2.1 Physiography

The WLA Campus is within the Pacific Border province of the Pacific Mountain System region, about four miles east of Santa Monica and 14 miles west of downtown Los Angeles. The Pacific Mountain System spans the entire Pacific coastline for California, Oregon, and Washington. The Pacific Border province follows California's Pacific coastline along most of the state. This province is tectonically active and one of the youngest geological areas in North America. The Pacific Border province is characterized by lowlands and mountains on the eastern margin and coastal areas to the west (National Park Service, 2016). The WLA Campus is within the Pacific Border Province's Transverse Range, which includes a series of east-west trending steep mountain ranges and valleys (California Geological Survey, 2002). The highest peaks reach over 10,000 feet ASL (National Park Service, 2016), and this area is among the most rapidly rising regions on Earth. The Transverse Range is bordered to the west by the Pacific Ocean and has been deformed by the San Andreas Fault to the south (California Geological Survey, 2002).

Greater Los Angeles, including the WLA Campus, is within the Los Angeles Basin, a northwest-trending lowland plain that is roughly 50 miles long and 20 miles wide. The Los Angeles Basin is bounded by mountains and hills to the north, northeast, east, and southeast, with the Pacific Ocean to the west (USGS, 2006a). The northern extent of the WLA Campus lies just over one mile south of the base of the Santa Monica Mountains.

# 3.4.2.2 Geology and Topography

The WLA Campus lies within the Beverly Hills and Van Nuys (south 1/2) USGS quadrangles, and is underlain by Quaternary (2.6 million years ago to present) sands, gravels, and shales that are likely sourced from nearby mountain ranges (City of Beverly Hills, 2005). Two distinct units form the underlying surface geology of the WLA Campus: Quaternary Older Alluvium Deposits (Qoa) and Quaternary Alluvium Deposits (Qa) (USGS, 1991) (Figure 3.4-1). Unit Qoa underlies the majority of the WLA Campus except for much of the area east of Bonsall Avenue. This layer is characterized by slightly compacted older gray to light-brown pebble-gravel, sand, silt, and clay deposited by rivers from the Santa Monica Mountains. Unit Qa underlies the eastern portion of the WLA Campus and is characterized as alluvial gravel, sand, and silt-clay that originated in stream channels in the Santa Monica Mountains.

As mentioned in Section 3.4.2.1, Physiography, the northern extent of the WLA Campus lies just over one mile south of the base of the Santa Monica Mountains. While the Santa Monica Mountains are slightly over 3,100 feet ASL, the WLA Campus is at a much lower elevation. The WLA Campus is located on a terrace that is gently sloped (about 2.5 percent) from north to south, with elevations ranging from approximately 490 feet ASL in the northwestern portion of the WLA Campus to approximately 260 feet ASL in the southern section. In general, steeper slopes are most evident in the Campus's northwestern and northeastern portions (Figure 3.4-2) (USGS, 1988).

<sup>&</sup>lt;sup>7</sup> In some sources, units Qoa and Qa may be referred to as Qof and Qya, respectively.

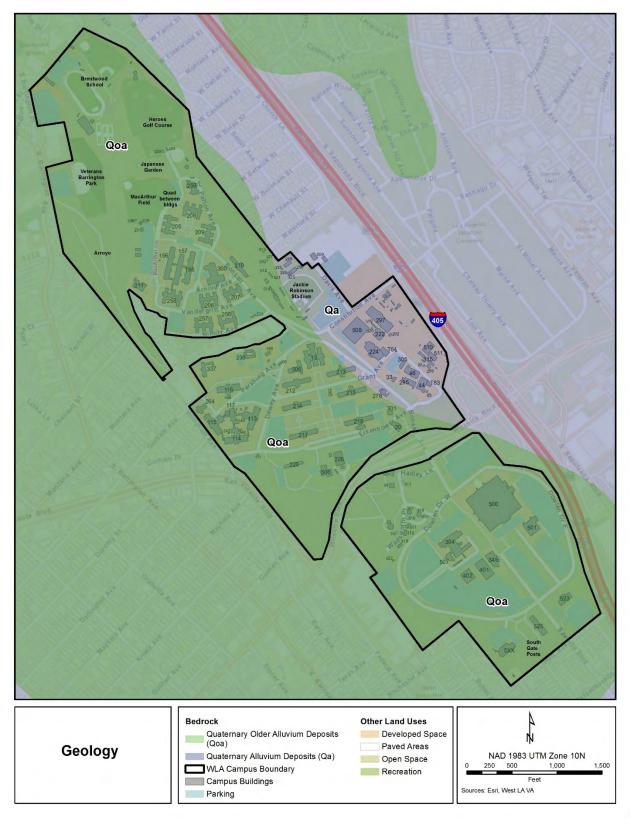


Figure 3.4-1. Geology of the WLA Campus

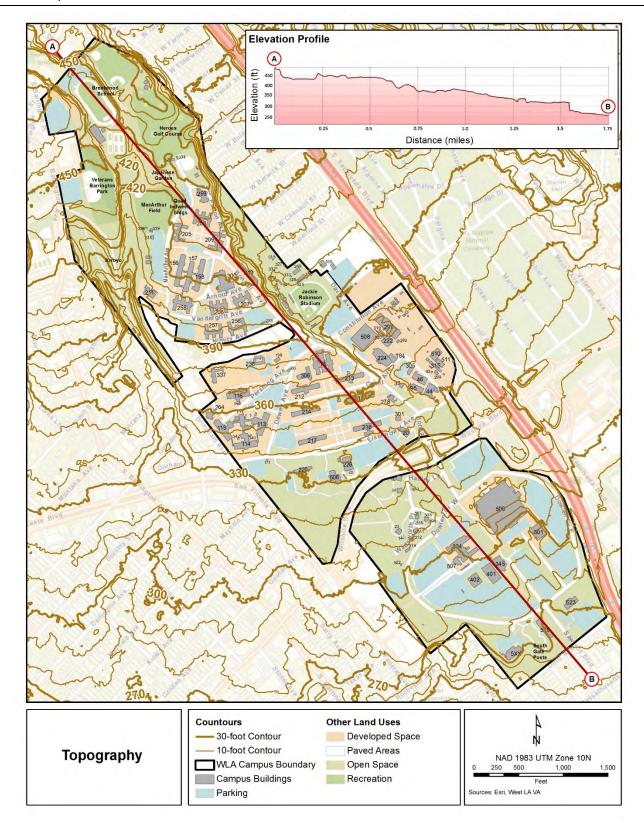


Figure 3.4-2. Topography of the WLA Campus

## 3.4.2.3 Geological Hazards

There are several geologic hazards in southern California that result from the region's underlying geology and topography. The most prominent hazards that could possibly affect the WLA Campus include earthquakes, seismic shaking, liquefaction, and landslides. Each of these geologic hazards and their relationship to the current conditions at the WLA Campus are further detailed below.

## **3.4.2.3.1** *Earthquakes*

Earthquakes are common in southern California, owing largely to the presence of many faults. Southern California is among the most seismically active areas in the United States. On average, the region annually experiences roughly 10,000 earthquakes, yet only 15 to 20 of these earthquakes exceed Magnitude (M)-4.0 on the Richter Scale (USGS, 2017c). Several earthquakes have affected Los Angeles in proximity to the WLA Campus, including the 1927 M-5.0 offshore earthquake, the 1971 M-6.5 San Fernando earthquake, and the 1994 M-6.65 and M-5.29 Northridge earthquakes. These earthquake epicenters were roughly four miles, 14 miles, and 13 miles from the WLA Campus, respectively (Figure 3.4-3). The 1971 San Fernando earthquake was responsible for severe damage to the Wadsworth Hospital and other buildings on the WLA Campus.

The WLA Campus is also in a seismically active region close to several major fault lines. There are at least 22 active fault lines within 60 miles of the WLA Campus. The Santa Monica fault trends northeast-southwest throughout the Los Angeles metropolitan area and passes through the southernmost portion of the WLA Campus near the Building 5XX and Parking Lot 1 (Figure 3.4-3). The Santa Monica fault reaches within 165 feet of the ground surface near the WLA Campus (Catchings, et al., 2008) (Pratt, T.; Dolan, J., 2010). The Santa Monica fault, located south of the San Andreas fault zone, was the cause for the 1994 Northridge earthquakes (USGS, 1999). The Hollywood and Newport-Inglewood faults are three to four miles northeast and four to five miles southeast, respectively, of the WLA Campus.

# 3.4.2.3.2 Seismic Shaking

Seismic shaking describes the movement of the Earth's land surface in response to the waves produced during fault slips (USGS, 2017b). Seismic shaking is the primary cause of damage related to earthquakes, and the Modified Mercalli Intensity Scale is used to classify earthquakes according to the intensity of their shaking (Table 3.4-1). Lower numbers (I and II) on the Mercalli Scale are imperceptible to most humans, while higher numbers (VIII to X) are likely to result in significant damage (USGS, 2017e). USGS estimates that the greater Los Angeles metropolitan area may experience "damaging earthquake shaking" more than 250 times over the next 10,000 years (i.e., more than once every 25 years) (USGS, 2017a).

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Richter Scale: "The Richter magnitude scale was developed in 1935 by Charles F. Richter of the California Institute of Technology as a mathematical device to compare the size of earthquakes. The magnitude of an earthquake is determined from the logarithm of the amplitude of waves recorded by seismographs" (USGS, 2017b).

WLA Campus Draft Master Plan

Figure 3.4-3. Active Faults and Historic Earthquakes in the WLA Campus Area

Table 3.4-1. Modified Mercalli Intensity Scale

Intensity	Shaking	Description/Damage
ř.	Not felt	Not felt except by a very few under especially favorable conditions.
II	Weak	Felt only by a few persons at rest, especially on upper floors of buildings.
nı	Weak	Felt quite noticeably by persons indoors, especially on upper floors of buildings. Many people do not recognize it as an earthquake. Standing motor cars may rock slightly. Vibrations similar to the passing of a truck. Duration estimated.
IV	Light	Felt indoors by many, outdoors by few during the day. At night, some awakened. Dishes, windows, doors disturbed; walls make cracking sound. Sensation like heavy truck striking building. Standing motor cars rocked noticeably.
V	Moderate	Felt by nearly everyone; many awakened. Some dishes, windows broken. Unstable objects overturned. Pendulum clocks may stop.
VI	Strong	Felt by all, many frightened. Some heavy furniture moved; a few instances of fallen plaster. Damage slight.
VII	Very strong	Damage negligible in buildings of good design and construction; slight to moderate in well-built ordinary structures; considerable damage in poorly built or badly designed structures; some chimneys broken.
VIII	Severe	Damage slight in specially designed structures; considerable damage in ordinary substantial buildings with partial collapse. Damage great in poorly built structures. Fall of chimneys, factory stacks, columns, monuments, walls. Heavy furniture overturned.
IX.	Violent	Damage considerable in specially designed structures; well-designed frame structures thrown out of plumb. Damage great in substantial buildings, with partial collapse. Buildings shifted off foundations.
K-	Extreme	Some well-built wooden structures destroyed; most masonry and frame structures destroyed with foundations. Rails bent.

Source: (USGS, 2017e)

Seismic shaking is impacted by the earthquake's magnitude (i.e., increasing magnitude leads to greater shaking), distance from the earthquake's source, and underlying geology. Seismic shaking typically decreases with increasing distance from the earthquake's source (California Geological Survey, 2006). Underlying geology is a significant factor in determining the level of ground shaking during an earthquake. While "hard" igneous rocks greater than 65 million years old do not tend to increase seismic shaking, "soft" sediments can have the opposite effect and tend to increase seismic shaking (California Department of Conservation, 2016b).

In 2003, the California Seismic Safety Commission, in partnership with the California Department of Conservation, Governor's Office of Emergency Services, and USGS, published a map of the *Earthquake Shaking Potential for the Los Angeles Metropolitan Region*. That map depicts the intensity of ground shaking and damage from projected future earthquakes in Los Angeles. Of the nine color codes used to represent levels of potential earthquake hazards, areas denoted at the highest end of the spectrum are considered to be near major, active faults and would experience more frequent earthquake shaking. The WLA Campus is located within the sixth greatest risk category for exposure to earthquake ground shaking (California Seismic Safety Commission, California Geological Survey, Governor's Office of Emergency Services, and USGS, 2003).

# 3.4.2.3.3 Liquefaction

Liquefaction describes the collapse of wet and/or loose soils due to earthquake-induced ground shaking. During earthquakes, soil particles can lose contact with one another and sediments begin to behave as a liquid. Specifically, soil can lose the ability to support structures, may flow down slopes, and explode to the surface. Liquefaction is often accompanied by soil settlement in uneven patterns that damages

buildings, roads, and pipelines (USGS, 2006b). Three factors are required for liquefaction to occur (USGS, 2006c):

- Loose, granular sediment (commonly occurs on "fill" land or where the underlying geology is predominantly alluvium),
- Saturation of the sediment by groundwater, and
- Strong ground shaking.

Historically, liquefaction has posed a geologic hazard to parts of southern California. During the 1994 Northridge earthquake, liquefaction damaged roads, pipelines, and buildings throughout the Los Angeles metropolitan area. Liquefaction poses the greatest threat to areas that are underlain by loosely packed sediments saturated with groundwater, and within 40 feet of the ground surface. These conditions are common in Southern California's valleys and alluvial floodplains (California Department of Conservation, 1998).

About 20 percent of the Beverly Hills Quadrangle is within a designated liquefaction zone<sup>9</sup> (California Department of Conservation, 1998), including the southeastern portion of the WLA Campus (California Geological Survey, 2017) (Figure 3.4-4). Portions of the WLA Campus that are susceptible to liquefaction are underlain by loosely packed eroded sediments and are generally areas underlain by Unit Qa. Another contributing factor is depth to groundwater; liquefaction potential increases in areas where the depth to groundwater is shallow (i.e., less than 40 feet). The *Seismic Hazard Zone Report for the Beverly Hills 7.5-Minute Quadrangle, Los Angeles County, California* indicates that there have been periods during which the depth to groundwater throughout much of the WLA Campus has been less than 40 feet. Groundwater depths have reached historic highs of 10 to 20 feet (or less) in southern portions of the WLA Campus (California Department of Conservation, 1998).

#### **3.4.2.3.4** *Landslides*

The term landslide describes a variety of localized downhill soil movements that can occur in a matter of seconds, or over the course of hours or days. Landslides can be triggered by a single severe storm or earthquake, causing widespread damage in a short period. Most landslide events are triggered by water infiltration that decomposes and loosens rock and soil, lubricates frictional surfaces, adds weight to an incipient landslide, and imparts buoyancy to the individual particles. Intense rainfall, rapid snowmelt, freeze/thaw cycles, earthquakes, volcanic eruptions, and human alterations to the natural landscape are also triggers (USGS, 2003). Areas with one or more of the following conditions are at risk from landslides: steep hills, road cuts, locations of previous landslide, steep stream channel banks, alluvial fans, and slopes that have experienced wildfires within the last one to six years (City of Beverly Hills, 2010).

Landslides are common in southern California due to the region's steep topography and weak underlying geology. Landslides may be triggered during the rainy winter and spring months in southern California (i.e., between November and April), particularly after rainfall of 10 inches or greater. Once the ground becomes saturated, more than two inches of rain in six hours in the lowlands or more than four inches in six hours in the mountains can result in landslides. Mudslides in southern California typically reach

<sup>&</sup>lt;sup>9</sup> Liquefaction zones are defined as "areas where historical occurrence of liquefaction, or local geological, geotechnical and [groundwater] conditions indicate a potential for permanent ground displacements such that mitigation as defined in Public Resources Code Section 2693(c) would be required" (California Department of Conservation, 1998).

speeds between 10 and 25 miles per hour (mph) and can exceed 100 mph in rare instances (California Department of Conservation, 2016a). Earthquake-induced landslides also are common in southern California and the 1994 Northridge earthquake produced more than 11,000 landslides in the region (USGS, 2005). During the last 25 years, there have been more than 100 deaths due to landslides in California (California Department of Conservation, 2016a).

California has developed a landslide susceptibility classification system that rates an area's landslide risk based on a combination of an area's underlying geology and slope. Landslide susceptibility is rated on a scale ranging from 0 (least susceptible) to X (most susceptible). Areas with low slopes are not susceptible to landslides, even where the underlying geology is composed of weak rock materials and these areas would be rated as Class 0. Classes VIII, IX, and X have high susceptibility to landslides given their steep slopes in hard rocks and weak rocks with moderate to steep slopes. Portions of the WLA Campus have susceptibility ratings between VII and X, indicating strong vulnerability to landslide events (Figure 3.4-5). To date, no landslide evidence has been recorded within the WLA Campus (Wills, C.; Perez, F.; Gutierrez, C., 2011), likely owing to the minimal slopes throughout the WLA Campus.

#### 3.4.2.3.5 Land Subsidence

Land subsidence describes the settlement of a land area, which can occur quickly in a matter of seconds, or slowly over the course of months or years. Nationwide, the primary causes of land subsidence are attributed to aquifer compaction, drainage of organic soils, underground mining, sinkholes, and thawing permafrost. More than 80 percent of land subsidence in the United States is a consequence of overwithdrawal of groundwater (USGS, 2000). While portions of the Los Angeles Basin are susceptible to land subsidence due to groundwater pumping and aquifer compaction, land subsidence has not been observed at the WLA Campus (USGS, 2017d).

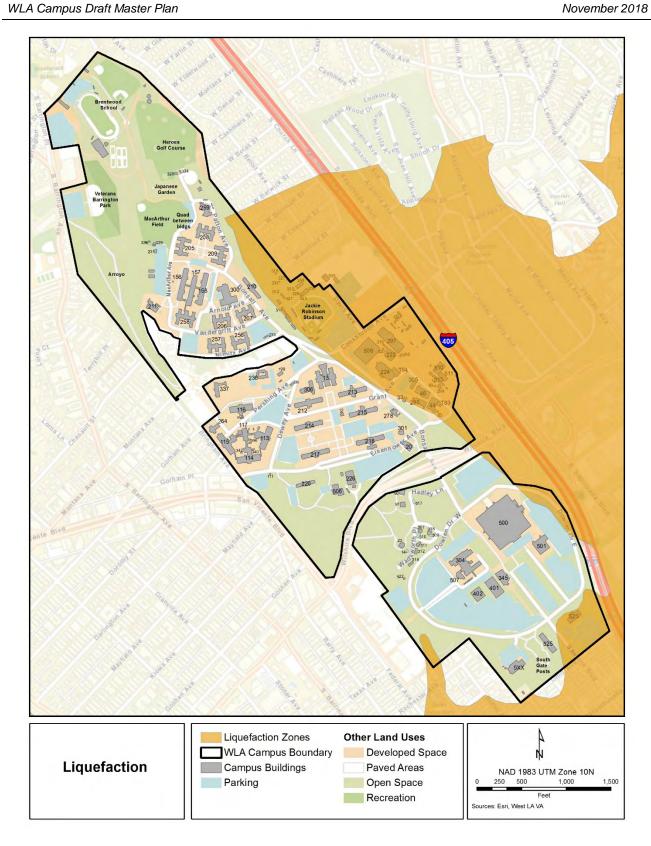


Figure 3.4-4. Liquefaction Zones on the WLA Campus

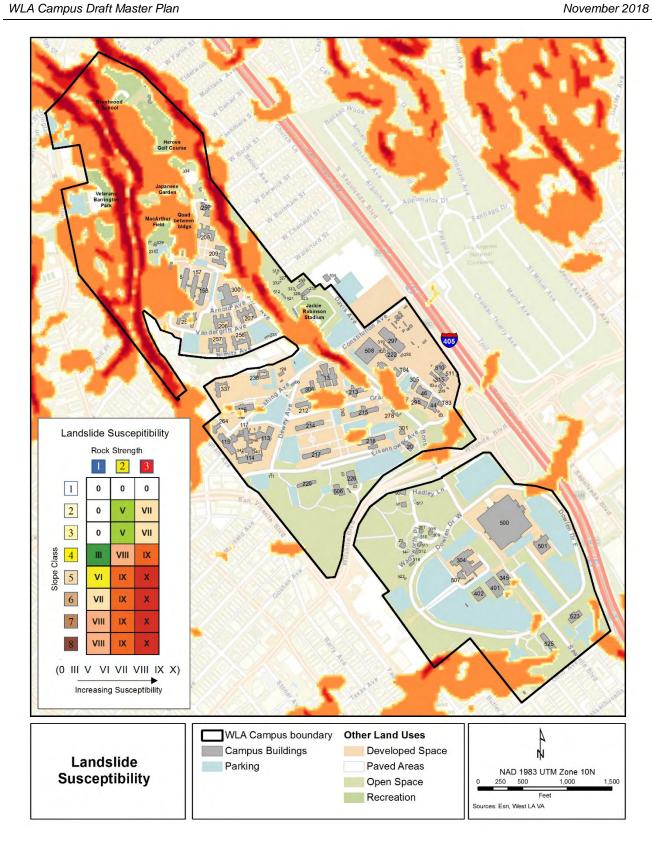


Figure 3.4-5. Landslide Susceptibility on the WLA Campus

## 3.4.2.4 Mineral and Oil Resources

# 3.4.2.4.1 California Mineral Resource Zones

The California State Mining and Geology Board has classified lands throughout the state into Mineral Resource Zones (MRZ) based on their potential to contain significant mineral deposits. There are four MRZs throughout California (California Department of Conservation, 2004):

- MRZ 1: Areas of No Mineral Resource Significance
- MRZ 2: Areas of Identified Mineral Significance
- MRZ 3: Areas of Undetermined Mineral Significance
- MRZ 4: Areas of Unknown Mineral Significance

The southernmost portion of the WLA Campus, in approximate alignment with the area south of the Santa Monica Fault, is classified as MRZ 1. The remaining portions of the WLA Campus are classified as MRZ 3. There are no MRZ 2 zones (i.e., areas of identified mineral significance) on the WLA Campus (California Department of Conservation, 1979).

### 3.4.2.4.2 *Methane Zone*

Methane zones are areas with hazardous concentrations of subsurface methane gas that could accumulate in structures and pose safety risks to people and facilities (Los Angeles County Department of Public Works, 2017). In these areas, there is the potential for these explosive gases to collect in structures and concentrate at hazardous levels. A recent study was conducted in Los Angeles to determine potential sources of methane gas using on-road measurements. The study concluded that approximately 75 percent of the sources were of fossil origin; 20 percent were biogenetic (e.g., existing and former landfills, cattle, water treatment facilities); and five percent were undetermined (Hopkins, et al., 2016).

Most portions of the WLA Campus lie within a methane zone, except for the northernmost reaches of the campus (City of Los Angeles Department of Building and Safety, 2017a) (Figure 3.4-6). The City of Los Angeles has the authority to withhold building permits until "detailed plans [are submitted] that show adequate protection against flammable gas incursion by providing the installation of suitable methane mitigation systems" (City of Los Angeles Department of Building and Safety, 2004). City of Los Angeles ordinances establish testing protocols, installation procedures, and design parameters for methane gas mitigation systems during construction and for buildings in methane zones. Building protection requirements are designed according to tested methane levels and pressures measured at a specific site within a methane zone and may include passive systems, such as de-watering systems and impervious membranes, or active systems, such as mechanical ventilation, gas detection alarms, and an alarm system and control panel (City of Los Angeles Department of Building and Safety, 2017a).

According to the Los Angeles County DPW Solid Waste Information Management System website, the WLA Campus is not within 1,000 feet of a methane producing site (Los Angeles County Department of Public Works, 2017).

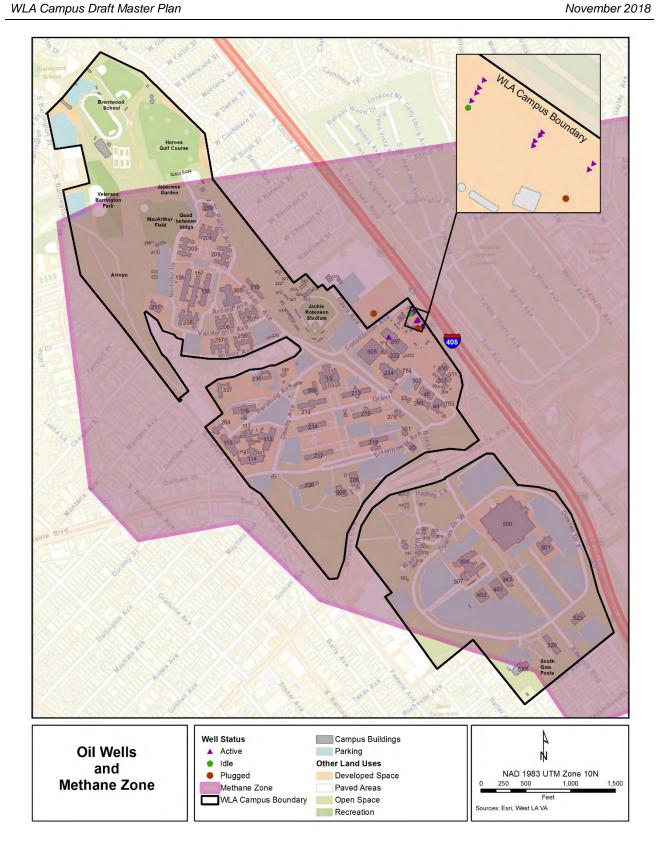


Figure 3.4-6. Oil Wells and Methane Zone on the WLA Campus

## 3.4.2.4.3 Oil Fields

A patchwork of oil and natural gas fields cover an area from central to southern California. Los Angeles, with more than 3,700 derricks extracting oil from 55 active fields, has the largest number of urban oil fields in the United States with active wells near residences, businesses, and schools. Many of the oil wells located in densely populated areas of Los Angeles were drilled in the early 1900s. Wells that were once closed due to inactivity have been allowed to reopen without additional permitting or notifications to neighbors and residents (Chaturvedi, I., n.d.).

Much of the WLA Campus is in the Sawtelle oil field, which was discovered in 1965 and remains in production (California Division of Oil, Gas, and Geothermal Resources, 2003). The oil field stretches beneath the WLA Campus, to the east across I-405, the southern portion of the LANC, and portions of neighboring residential areas. The WLA Campus currently has 14 oil wells within the Sawtelle oil field. Of the 14 oil wells, 11 are active, two are plugged and abandoned, and one is idle (Figure 3.4-6) (California Department of Conservation, 2017).

The active wells are located in the industrial area on the eastern part of the WLA Campus near the intersection of Constitution Avenue and I-405. These wells are operated by Breitburn through a federal lease. Total production from the active wells was 172,525 barrels in 2016; 187,870 barrels in 2015; 184,907 barrels in 2014; and 221,382 barrels in 2013. Production from a single well ranged from a high of 76,288 barrels in 2015 and a low of 528 barrels in 2016 (California Department of Conservation, 2017). In some cases, the oil is produced from consolidated drilling sites that allows for urban development to occur near oil production facilities (California Division of Oil, Gas, and Geothermal Resources, 2003).

#### 3.4.2.4.4 Tar Pits

Tar pits form when crude oil rises to the Earth's surface and minor oil components evaporate; a heavy tar, or asphalt, remains and is deposited in a pool on the Earth's surface (University of California Museum of Paleontology, 2018). The Rancho La Brea Tar Pits are a series of asphalt pools in Southern California that are famous for preserving saber-toothed cats, Columbian mammoths, American mastodons, and dire wolves. As the nearest tar pits to the WLA Campus, the Rancho La Brea Tar Pits are about five miles west of downtown Los Angeles and roughly five miles east of the WLA Campus (USGS, 2012). More than one million bones have been recovered from the La Brea Tar Pits since 1906 (La Brea Tar Pits & Museum, 2018) from over 660 species of vertebrates, plants, mollusks, and insects (University of California Museum of Paleontology, 2018).

### 3.4.2.5 Soils

This section provides an overview of runoff potential, soil erosion potential, and soil compaction potential related to soils at the WLA Campus. Soil orders are the highest level of soil taxonomy, and there are 12 soil orders characterized by texture, color, temperature, and moisture regime. Soil suborders are the next level down and are differentiated within an order by soil moisture and temperature regimes, as well as dominant physical and chemical properties (NRCS, 2017b). Soil suborders is a system of classification

used to make and interpret soil surveys. The STATSGO2<sup>10</sup> soil database identifies 32 different soil suborders in California (NRCS, 2017c).

Two distinct soil units dominate the WLA Campus: Urban land-Sepulveda-Pierview Complex and Urban Land-Anthraltic Xerorthents, Loamy substratum-Grommet Complex (Figure 3.4-7). The Natural Resources Conservation Service (NRCS) Web Soil Survey indicates that approximately 82 percent of the project area consists of Urban land-Sepulveda-Pierview Complex soils. Sepulveda soils fall within soil suborder Orthents (NRCS, 2017d), while Pierview soils belong to the soil suborder Xeralfs (NRCS, 2017e). The remaining 18 percent of the project area includes Urban Land and Anthraltic Xerorthents (soil suborder Orthents) (NRCS, 2014) with Loamy Substratum and Grommet Complex (soil suborder Xerolls) (NRCS, 2017f) soils on 0 to 5 percent slopes (NRCS, 2017g).

*Urban Land-Sepulveda-Pierview Complex:* Urban lands within this soil unit are generally encountered on 0 to 5 percent slopes. Areas underlain by urban landscape do not infiltrate water and are associated with high percentages of stormwater runoff. Sepulveda and Pierview soils are typically found on 2 to 12 percent slopes and noted for being well-drained. Sepulveda soils are commonly associated with alluvial fans, while Pierview soils are typically associated with alluvial fan remnants. Sepulveda and Pierview soils are not typically associated with flooding (NRCS, 2017g).

*Urban Land-Anthraltic Xerorthents, Loamy Substratum-Grommet Complex:* The Urban Land-Anthraltic Xerorthents, Loamy substratum-Grommet Complex is represented in the following proportions: urban land (55 percent); Anthraltic xerorthents, loamy substratum, and similar soils (20 percent); and Grommet and similar soils (15 percent). Urban lands within this soil unit are generally encountered on 0 to 2 percent slopes. Areas underlain by urban landscape do not infiltrate water and are associated with very high percentages of stormwater runoff. Anthraltic Xerorthents, Loamy Substratum-Grommet Complex soils are commonly associated with alluvial fans, typically found on 0 to 5 percent slopes and noted for being well-drained. The Anthraltic Xerorthents, Loamy Substratum-Grommet Complex soils are not typically associated with flooding (NRCS, 2017h).

## 3.4.2.5.1 Soil Erosion Potential

Soil erosion describes the removal of soil particles from a source location by water, wind, or gravity. Water-induced erosion can transport soil into streams, rivers, and lakes, degrading water quality and aquatic habitat. When topsoil is eroded, organic material is depleted creating a loss of nutrients available for plant growth. Soils displaced by wind can cause human health problems and reduced visibility, creating a public safety hazard (NRCS, 1996a). Disturbed land that has been affected by construction may erode at 1,000 times the pre-disturbed rate (i.e., when erosion and sediment control measures are not implemented) (North Carolina Department of Environmental Quality, 2009). Xeralfs and Orthents are both common in Mediterranean climates, such as California's, and are commonly found on erosional surfaces (NRCS, 2015).

STATSGO2 is the Digital General Soil Map of the United States developed by the National Cooperative Soil Survey and supersedes the State Soil Geographic (STATSGO) dataset. The U.S. General Soil Map is comprised of general soil association units and is maintained and distributed as a spatial and tabular dataset.

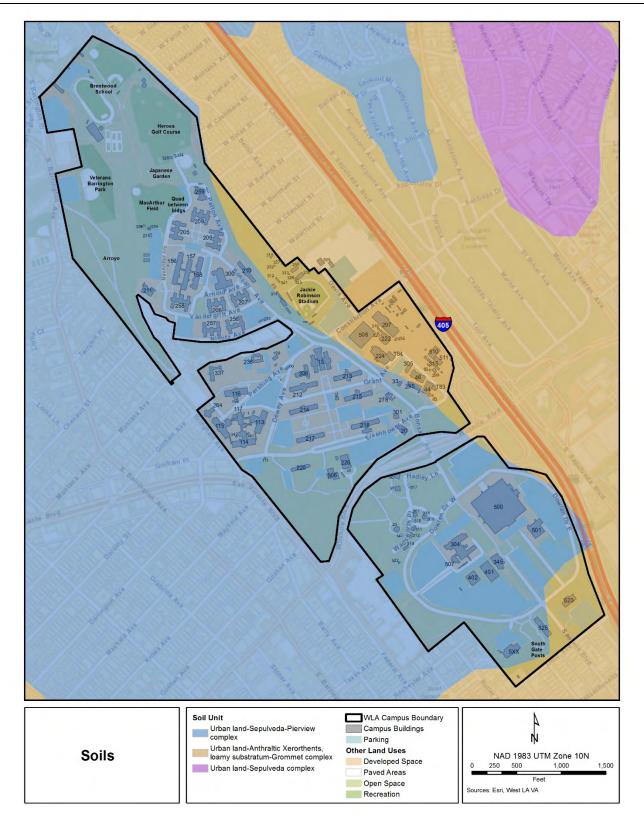


Figure 3.4-7. Soils on the WLA Campus

## 3.4.2.5.2 Soil Compaction Potential

Soil compaction and rutting occurs when soil layers are compressed by machinery or animals, which decreases both open spaces in the soil, as well as water infiltration rates (NRCS, 1996b). Moist soils with high soil water content are most susceptible to compaction and rutting, as they lack the strength to resist deformation caused by pressure. When rutting occurs, channels form and result in downslope erosion (USFS, 2009). Other characteristics that affect compaction and rutting risk include soil composition (i.e., low organic soil has a higher compaction risk), amount of pressure exerted on the soil, and repeatability (i.e., the number of times the pressure is exerted on the soil). Machinery and vehicles that have axle loads greater than 10 tons can cause soil compaction of greater than 12 inches (NRCS, 1996b) (NRCS, 2003).

Loam, sandy loam, and sandy clay loam soils are most susceptible to compaction and rutting; silt, silty clay, silt loam, silty clay loam, and clay soils are more resistant to compaction and rutting (NRCS, 1996b). Soil suborders with the highest potential for compaction and rutting at the WLA Campus include those in the Xeralfs suborder, which are found in the Pierview Complex soils throughout the majority of the WLA Campus (Figure 3.4-7).

## 3.4.2.5.3 Expansive Soils

Expansive soils describe soils that swell when wet or shrink in volume when they are dried. In California, expansive soils are typically composed of clay or siltstone (City of Monterey Park, CA, 2018). The WLA Campus is not underlain by soils that are generally considered to be expansive (ESRI, 2017) (Olive, et al., 1989).

# 3.4.2.6 Paleontological/Fossil Resources

Studies of marine fossils dated from the late Miocene Epoch (23.0 to 5.3 million years ago) indicate that much of the Los Angeles Basin was under roughly 0.5 miles of seawater. Miocene fossils retrieved within the Los Angeles Basin include Mud pecten (*Delectopecten vancouvernsis fernandoensis*), Seastar (*Zoroasteridae*), and Deep-sea smelt (*Bathylagus*). By the Pleistocene Epoch (5.3 million to 10,000 years ago), temperatures cooled, and the marine environment receded from southern California and terrestrial animals became common in the Los Angeles Basin. Near the Los Angeles County Metropolitan Transportation Authority (LA Metro) Red Line subway (roughly seven miles to the northeast of the WLA Campus), Pleistocene fossils of bones and teeth of the Great Ground Sloth and an Ancient Bison have been found (California Department of Conservation, 2001). Ice Age fossils, including a mammoth or mastodon bone and camel bone (*Camelops hesternus*), were also recently found during construction of the LA Metro Purple Line, roughly 5.5 miles east of the WLA Campus at the intersection of Wilshire Avenue and La Brea Avenue (Landa, J., 2017).

As noted in Section 3.4.2.2, Geology and Topography, the primary geologic units that underlie the WLA Campus are Qoa and Qa. Previous environmental analyses have evaluated the potential for these units to yield fossils. Unit Qoa has yielded significant vertebrate fossils in Los Angeles County. In other areas of Los Angeles County, Unit Qoa has been found to contain fossils for a variety of aquatic and terrestrial species such as whales and sea lions to horses, camels, bison, mammoths, and gophers to rays, fish, and sharks found between five and 100 feet depths. Unit Qa deposits do not typically have fossilized materials (Applied Earth Works Inc., 2014).

To date, no paleontological resources have been recorded on the WLA Campus and a query of the University of California Museum of Paleontology Localities did not provide any documented fossil records for the WLA Campus (University of California - Berkley, 2017).

# 3.5 Hydrology and Water Quality

This section describes the regulatory and policy framework and the local climate, hydrology, water quality, and groundwater in the vicinity of the WLA Campus and surrounding area. Floodplains and wetlands are discussed separately in Section 3.9, Floodplains, Wetlands, and Coastal Zone.

Water resources include all surface water bodies and groundwater used by both natural and man-made systems. Lakes, ponds, rivers, and streams, as well as estuarine and coastal waters, are typical surface water systems. Groundwater includes all underground water that occupies pore spaces between sand, clay, and/or rock particles. These resources can be grouped into watersheds, which consist of surface water and all underlying groundwater and encompass an area of land that drains streams and rainfall to a common outlet (e.g., reservoir, bay). Within Los Angeles County, surface waters supply drinking water, provide flood control and aquatic habitat, and support recreation, tourism, agriculture, fishing, and industrial uses. Primary uses of groundwater in the region are for public supply, agriculture, and industrial purposes (Winter, Harvey, Franke, & Alley, 1998) (LARWQCB, 2014).

# 3.5.1 Regulatory and Policy Framework

## 3.5.1.1 Federal Water Pollution Control Act (Clean Water Act)

The Federal Water Pollution Control Act or Clean Water Act (CWA; 33 U.S.C. § 1251 et seq.) is the primary federal statute governing surface water and groundwater resources. The CWA aims to protect water quality and to restore and maintain the chemical, physical, and biological integrity of waters of the United States. Under the CWA, the EPA and states are delegated certain responsibilities in water quality control and water quality planning. In California, the State Water Resources Control Board (SWRCB) and nine Regional Water Quality Control Boards (RWQCB) implement many of the CWA provisions. The Los Angeles RWQCB is aligned to the WLA Campus and thus helps to guide water protection rules for the site (California Department of Conservation, 2017).

Under Section 303(c) of the CWA, states are responsible for establishing water quality standards and to review and update such standards on a triennial basis. Section 303(d) of the CWA requires states and the EPA to identify and list waters not meeting state water quality standards (referred to as impaired waters) and to develop total maximum daily loads (TMDL), defined as the maximum amount of a pollutant a waterbody can receive and still meet water quality standards. After determining TMDL for impaired waters, states are required to identify all point and nonpoint sources (runoff) of pollution in a watershed that are contributing to the impairment and to develop an implementation plan that will allocate reductions to each source to meet state standards. Impaired waterways near the WLA Campus are primarily threatened by nonpoint sources, such as runoff from urban areas, forestry, and agriculture, that affect both human health and aquatic life, habitat, and wildlife.

Section 401 of the CWA allows states the opportunity to address aquatic resource impacts of federally issued permits and licenses. The primary function is for states to help protect water quality by giving

them the ability to grant, grant with conditions, deny, or waive Section 401 certification (e.g., CWA Section 404 permit). The SWRCB is responsible for reviewing any proposed federally permitted or licensed activity that may impact water quality.

Section 402 of the CWA addresses the effluent permit system for point source discharges (e.g., sewer outfalls) of pollutants into waters of the United States and authorizes the EPA or approved states to administer the National Pollutant Discharge Elimination System (NPDES) program. The NPDES program also regulates the discharge of nonpoint sources, such as stormwater effluent. The program uses the NPDES permitting mechanism to require the implementation of controls to prevent pollutants from being washed into local waterbodies by stormwater runoff. NPDES permit requirements include mandatory permits for any earth moving or ground clearing for areas larger than one acre.

Stormwater management through NPDES regulates the discharges of contaminated stormwater into receiving waterbodies. The following stormwater discharges are covered by a NPDES permit:

- Discharge associated with industrial activity,
- Discharge from a municipal separate storm sewer system (MS4), or
- Discharge that contributes to a violation of a water quality standard or significantly contributes pollutants to waters of the United States.

The Los Angeles RWQCB is responsible for managing the NPDES permit program in Los Angeles County, including issuing MS4 permits and construction general permits for construction activities disturbing more than one acre of land.

Section 404 of the CWA addresses prohibition and permitting for dredged materials and fill material into waters of the United States. Activities regulated under Section 404 include fill for development, water resource projects (e.g., dams or levees), infrastructure development, and mining projects. A Section 404 permit must be obtained from the United States Army Corps of Engineers (USACE) for activities that discharge dredged or fill material into waters of the United States, including wetlands. Section 404 individual permits are required for activities that may create significant impacts, such as the construction of dams, levees, and highways along a waterway. Section 404 general permits are granted on a nationwide, statewide, or regional basis for activities that produce minimal impacts, such as minor culvert or road crossings over streams.

## 3.5.1.2 California Porter-Cologne Water Quality Control Act

Enacted in 1969, the California Porter-Cologne Water Quality Control Act (California Water Code § 13000 et seq.) is the primary law governing water quality regulation in the state. The Act established a water protection program and beneficial uses of water, applicable to surface waters, wetlands, and groundwater and to both point and nonpoint sources of pollution. The Act established the California Water Code that authorizes the SWRCB to implement the CWA through nine RWQCBs. Each RWQCB is required to develop water quality control standards (e.g., beneficial uses, water quality objectives and criteria) for all areas within their region for surface and groundwater. RWQCBs are responsible for regulating surface and groundwaters (e.g. inspections, enforcement actions) and establishing requirements for water discharge, including nonpoint sources, within their region.

# 3.5.1.3 Section 438 of the Energy Independence and Security Act

To help protect water resources, Section 438 of the Energy Independence and Security Act of 2007 (EISA; Pub.L. 110-140; 42 U.S.C. § 17001 et seq.) requires federal agencies to reduce stormwater runoff from federal development and redevelopment projects to the maximum extent technically feasible. Projects that exceed 5,000 gross square feet (GSF) must maintain or restore pre-development hydrology during the development or redevelopment process. Stormwater management practices that can be implemented include a variety of green infrastructure or low impact development (LID) practices, such as reducing impervious surfaces, increasing porous pavements, and installing green roofs.

# 3.5.1.4 U.S. Department of Veterans Affairs Site Development Design Manual

VA's *Site Development Design Manual* was developed for the planning and design of all VA facilities, including site layout, parking, traffic, stormwater management, utilities, and landscaping. The manual provides VA design guidelines for medical and support facilities.

## 3.5.1.5 Local Planning, Zoning, and Development Laws

The Los Angeles County DPW *Hydrology Manual* governs the design of storm drain facilities and flood protection, and limit allowable discharges (i.e., TMDL) into existing storm drains (Los Angeles County Department of Public Works, 2006). The Los Angeles County DPW also regulates hydrologic impacts of projects through requirements for hydrologic reviews, LID development, and stormwater management plans.

### 3.5.2 Current Conditions

As discussed in Section 3.2.2.1, Regional Climate, the climate in the Los Angeles area is characterized as Mediterranean with warm, dry summers and mild, wet winters. Differences in topography contribute to large variations in temperature, humidity, precipitation, and cloud cover throughout the region. Average annual rainfall in the region varies with elevation, ranging from 4 to 25 inches, with the WLA Campus receiving approximately 18 inches of rain annually (LARWQCB, 2011) (Los Angeles County Department of Public Works, 2018a). The majority of rainfall in the area occurs from late autumn to early spring, with little precipitation during the summer months.

## 3.5.2.1 Surface Water Hydrology

The WLA Campus is located in the Los Angeles Basin, as designated by the Los Angeles RWQCB. Though the area is densely populated and highly industrialized, significant parts of the region are actively used for agriculture and livestock. Headwaters for the Los Angeles Basin originate in the nearby mountain areas with streams and rivers flowing through urbanized, industrial, and farmed areas, ultimately reaching the region's coastal areas. The region's coastline consists of open ocean, harbors, estuaries, lagoons, and bays, including Santa Monica Bay, a nationally significant waterbody designated into the National Estuary Program (LARWQCB, 2014).

The Santa Monica Bay is a 266-square mile area of coastal Los Angeles that supports a variety of terrestrial and marine habitats, including coastal sand dunes, salt and brackish marshes, and kelp and

seagrass beds. The Santa Monica Bay is the nearest waterbody to the WLA Campus and is located approximately three miles to the west. Due to extensive urban development in Los Angeles County, there is no direct hydrologic connection from the WLA Campus to the Santa Monica Bay (LARWQCB, 2011).

The Los Angeles RWQCB has jurisdiction over the coastal watersheds in Los Angeles and Ventura Counties, including the WLA Campus, and is responsible for protecting and maintaining the quality of both surface water and groundwater in the region. Developed by the Los Angeles RWQCB, the Los Angeles Region Basin Plan for the Coastal Watersheds of Los Angeles and Ventura Counties (Basin Plan) is a comprehensive regional plan detailing the region's water quality regulations and associated programs. The Los Angeles RWQCB implements the Basin Plan through discharge requirements (i.e., state or NPDES permits), enforcement tools, and encouraging the improvement of local water supplies (LARWQCB, 2014).

In some areas of the Los Angeles RWQCB, stormwater and urban runoff are transported via natural systems (e.g., streams, riparian corridors, wetlands), while the remaining portion of Los Angeles County utilizes a storm drain network. This network is owned and maintained primarily by the Los Angeles County Flood Control District (FCD) and is designed to carry runoff to the ocean. Sewage is not allowed to enter the storm drain system. In the City of Los Angeles, gutters convey stormwater to storm drain inlets, which lead to an underground drainage network that empties into constructed channels or streams and creeks flowing into wetlands, lakes, or flood control basins. Large channelized flows outfall into rivers that discharge into harbors or the ocean (City of Los Angeles Department of Public Works, 2009). A majority of stormwater outfalls discharge into the Santa Monica Bay resulting in an average of 30 billion gallons of stormwater and urban runoff each year (LARWQCB, 2011). The Los Angeles County FCD works with cities and related agencies that have jurisdiction over land use to reduce and treat urban runoff to meet Los Angeles RWQCB water quality standards (Los Angeles County Department of Public Works, 2017a).

The WLA Campus is located within the approximate 130-square-mile Ballona Creek subwatershed. The watershed is bounded by the Santa Monica Mountains on the north, the Harbor Freeway (State Route 110) to the east, the Baldwin Hills on the south, and the City of Santa Monica to the west (Los Angeles County Department of Public Works, 2007). Ballona Creek is a nine-mile flood control channel that generally flows southwest and drains the western Los Angeles Basin. Much of the aboveground portion of the channel is lined with concrete to prevent future flooding. Ballona Creek is the largest stream in the Los Angeles Basin, collecting runoff from the south slopes of the Santa Monica Mountains as well as from urbanized areas in and around Los Angeles. The Ballona Creek watershed drains into the Santa Monica Bay at the Marina del Rey harbor (LARWQCB, 2011).

Within urbanized areas, such as the Ballona Creek subwatershed, impervious surfaces prevent the natural infiltration of water into the ground. Approximately 29 percent of the Santa Monica Bay watershed is covered by impervious surfaces, with the Ballona Creek subwatershed accounting for 17 percent (which is 55 percent of the subwatershed) (LARWQCB, 2011). Impervious surfaces (e.g., parking lots, buildings, roadways) comprise approximately 145 acres (37 percent) of the WLA Campus.

The WLA Campus is located on a terrace that is primarily sloped from north to south, with elevations ranging from approximately 490 feet ASL in the northwestern portion of the campus to approximately 260 feet ASL in the southern section (See Section 3.4.2.2, Geology and Topography, for more

information). Based on review of the California EcoAtlas Online Map Viewer and the results from an onsite wetland field survey (see Section 3.9, Floodplains, Wetlands, and Coastal Zone), an arroyo<sup>11</sup> is present within the northwestern edge of the North Campus. Limited streamflow or hydrology is present in the arroyo. An existing stormwater pipe, located upstream of the arroyo and extending from Sunset Boulevard and running underneath the Brentwood School property, discharges stormwater onto the North Campus. Water present in the southernmost portion of the arroyo corresponds to nearby stormwater culvert outfalls. Surface water in the arroyo below the outflow area most likely is due to irrigation and/or runoff from the storm drain system. The arroyo has been historically altered due to prior on-site activities and on adjacent properties, both up and downstream (see Section 3.9, Floodplains, Wetlands, and Coastal Zone). No intermittent or perennial surface waterbodies are located on the North or South Campus.

The Los Angeles County FCD owns and operates underground stormwater facilities within incorporated and unincorporated areas of Los Angeles County, including the WLA Campus. Stormwater for the entire site is conveyed to the Los Angeles County flood control system, located west and south of the WLA Campus, which flows into Sepulveda Channel, found on the eastern side of I-405, and empties into Ballona Creek. (See Section 3.14, Utilities, for more information on the WLA Campus' stormwater drainage system.)

## 3.5.2.2 Surface Water Quality

The greatest threats to the water quality of rivers and streams in the Santa Monica Bay region are primarily caused by municipal storm sewer systems and nonpoint sources. Advances have been made to reduce these threats through either permitting or by implementing control measures that address nonpoint sources. Other threats to water quality in the region include bioaccumulation of toxic compounds in aquatic species, increased development and recreational uses, flow diversion, channelization and dredging, and impacts from sand and gravel mining operations (LARWQCB, 2014).

According to the RWQCBs, the primary challenge to California's waters has been controlling nonpoint sources, such as runoff from urban areas, forestry, and agriculture. Stormwater runoff carries pollutants from roads, parking lots, maintenance areas, buildings, and other sources into drainage systems, degrading the quality of water as it flows downstream. Containments from urban areas affecting stormwater quality include trash, sediments, bacteria, metals, oil and grease, nutrients, and pesticides.

In the Basin Plan, the existing beneficial uses for Ballona Creek include non-contact water recreation and wildlife habitat. Ballona Creek, however, is listed in the SWRCB's 2014-2016 CWA 303(d) List of Impaired Waters and does not meet the water quality standards for beneficial uses. Pollutants that contribute to the impairment of Ballona Creek include coliform bacteria, copper (dissolved), cyanide, lead, toxicity, trash, viruses (enteric), and zinc (California Environmental Protection Agency, 2018).

Pressures from urban development have resulted in habitat modification or habitat removal, and increased pollutant loading to waterbodies in the watershed. To achieve more specific water quality improvements and habitat restoration, the Ballona Creek Watershed Management Plan identified best management practices (BMPs) that address stormwater runoff and dry weather flows (Los Angeles County Department of Public Works, 2004). In addition, the proposed Ballona Creek bacteria TMDL project would utilize

<sup>&</sup>lt;sup>11</sup> An arroyo is a nearly vertically walled, flat floored stream channel that forms in fine, cohesive, easily eroded material.

treatment and low-flow diversion technology at existing water treatment or water quality facilities in the Ballona Creek subwatershed to meet Los Angeles RWQCB water quality objectives (LA Sanitation, n.d.).

The WLA Campus does not treat stormwater runoff. As previously described, stormwater for the entire site is conveyed to the Los Angeles County flood control system, located west and south of the WLA Campus, which empties into Ballona Creek. Drainage for the North Campus is predominantly conveyed via either the arroyo or the on-site stormwater drainage system to the southwest, where water is conveyed off site across Wilshire Boulevard and continues to the south campus and into the Los Angeles County Flood Control system. No intermittent or perennial waterbodies occur on the site. Stormwater discharges for the WLA Campus are covered under a Phase II MS4 permit for a non-traditional permittee issued by the SWRCB.

### 3.5.2.3 Groundwater

The Coastal Plain of Los Angeles (CPLA) groundwater basin includes four groundwater subbasins, with the WLA Campus located in the Santa Monica subbasin. The CPLA groundwater basin is bounded by the Santa Monica Mountains on the north, the Santa Ana Mountains to the east, the San Joaquin Hills and the Pacific Ocean to the south, and the Pacific Ocean on the west. The majority of groundwater in the CPLA is stored in alluvial aquifers (CADWR, 2013). Generally, the water quality in CPLA aquifers is suitable for drinking and daily water needs. Low levels of dissolved solids concentrations make the water safe to drink, though there are some areas with higher levels of salinity due to sea water encroachment (LARWQCB, 2014).

Two aquifers are found in the Santa Monica subbasin, the Ballona and Silverado Aquifers. The Ballona Aquifer is approximately 10 to 50 feet thick, while the Silverado Aquifer, which underlies the WLA Campus, varies in thickness from 100 to 280 feet (CADWR, 2004) (CADWR, 2015) (Locus Technologies, 2000). Generally, average depths to groundwater for the entire WLA Campus in the Silverado Aquifer are greater than 70 feet below the surface but can vary seasonally depending on weather conditions (U.S. Department of Veterans Affairs, 2016a). As noted in Section 3.4.2.3, Geological Hazards, depth to groundwater for certain parts of the South Campus has been measured at less than 40 feet below the surface, corresponding to areas with potential for increased liquefaction. Groundwater in the Santa Monica subbasin generally flows from north to south (CADWR, 2004), with groundwater flow beneath the WLA Campus generally flowing toward the Santa Monica Bay (Meridian Consultants, 2015). Recharge of the Santa Monica subbasin occurs mainly from rainfall and surface runoff from the Santa Monica Mountains (CADWR, 2004). No water supply wells or injection wells are located on the WLA Campus, with the nearest well located approximately 0.7 miles southwest of the WLA Campus at the Santa Monica Water Treatment Plant.

Historical medical waste disposal areas are located at the WLA Campus within the northern portion of the arroyo. Waste included biological wastes, animal carcasses, medical isotope waste, and other miscellaneous medical debris believed to be disposed on site in the 1960s. Subsurface investigation activities were completed in 2007 and 2010, respectively. The results of these studies concluded that contaminants and radionuclides found in the soil and water did not exceed preliminary remediation goals established for soil and tap water by EPA Region 9. Additionally, contaminant and radionuclide concentrations in groundwater did not exceed maximum contaminant levels established for drinking water by the California Department of Public Health (Allwest Geoscience Inc., 2010). GLAHS is required to

obtain approval from the Nuclear Regulatory Commission (NRC) for any change in status of this historical waste disposal area (Section 3.12, Solid Waste and Hazardous Materials, contains additional details).

### 3.6 Wildlife and Habitat

This section describes the regulatory and policy framework and existing environment at the WLA Campus for wildlife, fisheries, vegetation, and habitat.

## 3.6.1 Regulatory and Policy Framework

## 3.6.1.1 Endangered Species Act

The Endangered Species Act (ESA; 16 U.S.C. § 1531 et seq.) established a program for federal agencies to participate in the conservation and recovery of imperiled species and the ecosystems upon which threatened and endangered species of fish, wildlife, and plants depend. This is to be accomplished by avoiding adverse effects on species due to federal actions, and by using the agency's authorities to undertake proactive conservation efforts alongside their mandated mission. The ESA defines an endangered species as one currently in danger of becoming extinct, while a threatened species is "likely to become endangered in the foreseeable future throughout all or a significant portion of its range." The ESA also addresses candidate species and proposed species. Candidate species are those with sufficient information on their vulnerability and threats to propose them as endangered or threatened under the ESA, but their status has not yet been fully evaluated. Proposed species are candidate species that warrant listing and have been officially proposed in a *Federal Register* notice. The U.S. Fish and Wildlife Service (USFWS) administers the ESA for terrestrial and freshwater species, while the National Oceanic and Atmospheric Administration (NOAA) Fisheries administers the ESA for marine species and anadromous fish (USFWS & NOAA Fisheries, 1998).

Critical habitat, as defined by the ESA, is a geographic area with physical or biological features that are essential to the conservation of listed species that may need specific management or protection. Critical habitat could include areas not currently occupied by the species but are essential to its conservation (16 U.S.C. § 1532).

The ESA requires federal agencies to engage in consultation with the USFWS and/or NOAA Fisheries to ensure that the continued existence of listed species is not jeopardized and that designated critical habitat is not adversely modified by actions authorized, funded, or carried out by that agency. The consultation process is set out in Section 7(a)(2) of the ESA and 50 CFR Part 402.

Section 9 of the ESA prohibits the taking of ESA species. Taking of an ESA-protected species is defined as to "harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or attempt to engage in any such conduct." The ESA defines harm as "significant habitat modification or degradation that results in death or injury to listed species by significantly impairing behavioral patterns such as breeding, feeding, or sheltering." The ESA defines harass as "actions that create the likelihood of injury to listed species to such an extent as to significantly disrupt normal behavior patterns which include, but are not limited to, breeding, feeding or sheltering" (50 CFR § 17.3).

# 3.6.1.2 Migratory Bird Act

The USFWS administers the Migratory Bird Treaty Act (MBTA; 16 U.S.C. §§ 703-712, as amended), which protects migratory bird species in the United States. The MBTA prohibits, unless under permit, to pursue, hunt, take, capture, kill, attempt to take, capture or kill, possess, offer for sale, sell, offer to purchase, purchase, import, export, or transport of any native migratory bird, nests, eggs, or any bird, nest, or egg parts. Additionally, EO 13186, *Responsibilities of Federal Agencies to Protect Migratory Birds*, directs federal agencies to implement the MBTA.

# 3.6.1.3 EO 13751, Safeguarding the Nation from the Impacts of Invasive Species

EO 13112, *Invasive Species*, requires federal agencies to actively prevent the introduction and spread of invasive species. EO 13751, *Safeguarding the Nation from the Impacts of Invasive Species*, builds upon EO 13112 and requires coordinated, cost-efficient federal prevention and control efforts, includes human and environmental health aspects, and ensures consideration of technological innovation.

# 3.6.1.4 California Endangered Species Act

The California Department of Fish and Wildlife (CDFW) administers the California Endangered Species Act (CESA), which works to protect and preserve all native species and their habitats threatened with extinction. The CESA prohibits the take of wildlife species designated by the California Fish and Game Commission as endangered, threatened, or candidate species, unless specifically authorized by CDFW.

# 3.6.1.5 California Fish and Game Code Section 3500-3513, Bird Protection

Sections 3500-3513 of the California Fish and Game Code regulates the taking of birds and their nests, such as hawks, owls, eagles, and falcons. Specifically, it is unlawful to take, possess, or needlessly destroy nesting birds, their nests, or eggs.

### 3.6.1.6 California Native Plant Protection Act of 1977

The California Native Plant Protection Act (NPPA) directs the California Fish and Game Commission to designate plants as rare or endangered. Exclusions may be granted by the CDFW for vegetation in agricultural and nursery lands, emergencies, changes in land use, and other situations.

# 3.6.1.7 City of Los Angeles Native Tree Protection Ordinance Number 177404

The Native Tree Protection ordinance outlines the protection of Southern California native tree species such as the Southern California black walnut (*Juglans californica* var. *californica*), Western sycamore (*Platanus racemosa*), California bay (*Umbellularia californica*), and oaks including the Valley oak (*Quercus lobata*), California live oak (*Quercus agrifolia*), and Engelmann oak (*Quercus engelmannii*) but excluding the Scrub oak (*Quercus dumosa*). Protected native trees with a diameter of at least four inches at the base of the tree and over 4.5 feet tall cannot be relocated or removed without a permit from the City of Los Angeles Board of Public Works (City of Los Angeles, 2006).

WLA Campus Draft Master Plan

## 3.6.2 Current Conditions

## 3.6.2.1 Vegetation and Habitat

Vegetation and habitat is commonly organized into EPA ecoregions as defined by areas of lands with similar characteristics, such as soil, vegetation, elevation, and climate. Ecoregions are categorized in a broad scale (Level I) to a finer scale (Level IV) (USGS, 2016b). West Los Angeles is in the Southern California/Northern Baja Coast Level III ecoregion (U.S. Environmental Protection Agency, 2013). Within this, the WLA Campus is part of the Los Angeles Plain Level IV ecoregion, while the Venturan-Angeleno Coastal Hills Level IV ecoregion is a few miles to the north. The natural landscape in the Los Angeles Plain ecoregion consists of California sagebrush (*Artemisia californica*), chamise chaparral (*Adenostoma fasciculatum*), California live oak, and annual grasslands (Griffith, et al., 2016).

Within the WLA Campus, most of open land has been landscaped, and groundcover on campus is grass or bare ground. Ornamental horticultural varieties such as the Brazilian pepper tree (*Schinus terebinthfolius*) and jacaranda (*Jacaranda mimosifolia*) along with lawn grasses are present throughout landscaped areas. Landscaping plant species on the campus include bird of paradise (*Paradisaeidae* sp.), juniper (*Juniperus chinensis*), and various succulents.

A variety of mature trees, primarily non-native species, occur throughout the campus. A tree survey of the WLA Campus conducted in 2017 identified 4,380 trees consisting of 132 species. Of these, 88 percent (3,844 total) were mature trees having trunk diameters of six inches or greater. Trees within the WLA Campus are predominantly blue gum eucalyptus or Tasmanian bluegum (*Eucalyptus globulus*) (Figure 3.6-1) covering 37 percent of the campus, with Mexican fan palms (*Washingtonia robusta*) also prominently found (six percent). Blue gum eucalyptus trees are more prevalent on the North Campus, while Mexican fan palms and Canary Island date palms (*Phoenix canariensis*) are more



Figure 3.6-1. Blue Gum Eucalyptus

No

prevalent on the South Campus (U.S. Department of Veterans Affairs, 2018b). Table 3.6-1 lists in order of prevalence the most common 20 tree species documented as occurring on the WLA Campus.

Common Name	Scientific Name	California Native (Yes/No)	Invasive Species (Yes/No)
Blue gum eucalyptus	Eucalyptus globulus	No	Yes
Mexican fan palm	Washingtonia robusta	No	Yes
Canary Island date palm	Phoenix canariensis	No	Yes
Jacaranda	Jacaranda mimosifolia	No	No
Brazilian pepper tree	Schinus terebinthfolius	No	No
Evergreen ash	Fraxinus uhdei	No	No
California fan palm	Washingtonia filifera	Yes	No

No

Cinnamomum camphora

Table 3.6-1. Twenty Most Common Tree Species Documented on the WLA Campus

Camphor tree

Common Name	Scientific Name	California Native (Yes/No)	Invasive Species (Yes/No)
Fern pine	Podocarpus gracilior	No	No
Lemon-scented gum	Corymbia citriodora	No	No
Tipu tree	Tipuana tipu	No	No
Silk oak tree	Grevillea robusta	No	No
American sweetgum	Liquidambar styraciflua	No	No
Bottle tree	Brachychiton populneus	No	No
Canary Island pine	Pinus canariensis	No	No
Date palm	Phoenix dactylifera	No	No
Fig	Ficus carica	No	Yes
London plane tree	Platanus x acerifolia	No	No
Weeping bottlebrush	Melaleuca viminalis	No	No

Sources: (Calflora, 2017) (U.S. Department of Veterans Affairs, 2018b) (Center for Invasive Species and Ecosystem Health, 2006)

Unique or historic trees on the WLA Campus include Moreton Bay fig trees (*Ficus macrophylla*), Cape fig (*Ficus sur*), Canary Island date palms, and mature groves of eucalyptus (Row 10 Historic Preservation Solutions, LLC, 2018b).

A small area on the northwest boundary of the WLA Campus is an arroyo with an adjacent bluff. The area is open space and retains some native species such as arroyo willow (*Salix lasiolepis*) and mulefat (*Baccharis salicifolia*). Much of the area is covered with non-native and invasive plant species, such as the heavily overgrown giant reed (*Arundo donax*). Trees, such as blue gum eucalyptus and plants and grasses, such as mustard weed (*Brassica* sp.), pampas grass (*Cortaderia* sp.), and Goldenrod (*Solidago* sp.), grow throughout the arroyo (Figure 3.6-2). Section 3.9, Floodplains, Wetlands, and Coastal Zone, contains additional information on the arroyo.



Figure 3.6-2. Northern Arroyo near Dog Park with Blue Gum and Other Eucalyptus Varieties

In addition to the giant reed, other invasive species include the three most common tree species occurring on the WLA Campus, each of which is considered an invasive species as identified on the California Invasive Plant Council's California Invasive Plant List (Table 3.6-1) (Center for Invasive Species and Ecosystem Health, 2006). The blue gum eucalyptus is native to Australia and accounts for 37 percent of the trees on the WLA Campus. It is highly susceptible to fire during dry seasons due to ignitable resin and the volume of flammable dead leaves, dropped bark, or limbs (California Invasive Plant Council, n.d.). The Mexican fan palm, also known as the Washington fan palm, accounts for six percent of trees on the WLA Campus (U.S. Department of Veterans Affairs, 2018b). It is native to Mexico, spreads prolifically, and creates a monoculture if seedlings are not pulled (California Invasive Plant Council,

2005(a)). The Canary Island date palm accounts for five percent of trees on the WLA Campus. It is native to the Canary Islands off the coast of Africa and grows in clusters to form a canopy that shades out native plants (California Invasive Plant Council, 2005(b)). Other invasive tree species found on the WLA Campus are the edible fig (*Ficus carica*), river redgum (*Eucalyptus camaldulensis*), and olive (*Olea europea*) (U.S. Department of Veterans Affairs, 2018b).

Several species protected under the City of Los Angeles Native Tree Protection Ordinance Number 177404 are present on the WLA Campus (Figure 3.6-3). Protected native trees with a diameter of at least four inches at the base of the tree and over 4.5 feet tall cannot be relocated or removed without a permit from the City of Los Angeles Board of Public Works (City of Los Angeles, 2006). Ten California live oaks are found singly in various locations on the WLA Campus with a grouping of three trees alongside a walking path south of Wilshire Boulevard. One Engelmann oak, a native California oak, is present near the Wadsworth Theater between Eisenhower Avenue and Wilshire Boulevard. The WLA Campus has 39 Western sycamores in apparent good health, with stands in the Japanese Garden at the southern edge of Heroes Golf Course and behind the CalVet facility. Two California bays are found on the WLA Campus, one on the east side of the arroyo and the other north of the Jackie Robinson Stadium (U.S. Department of Veterans Affairs, 2018b).

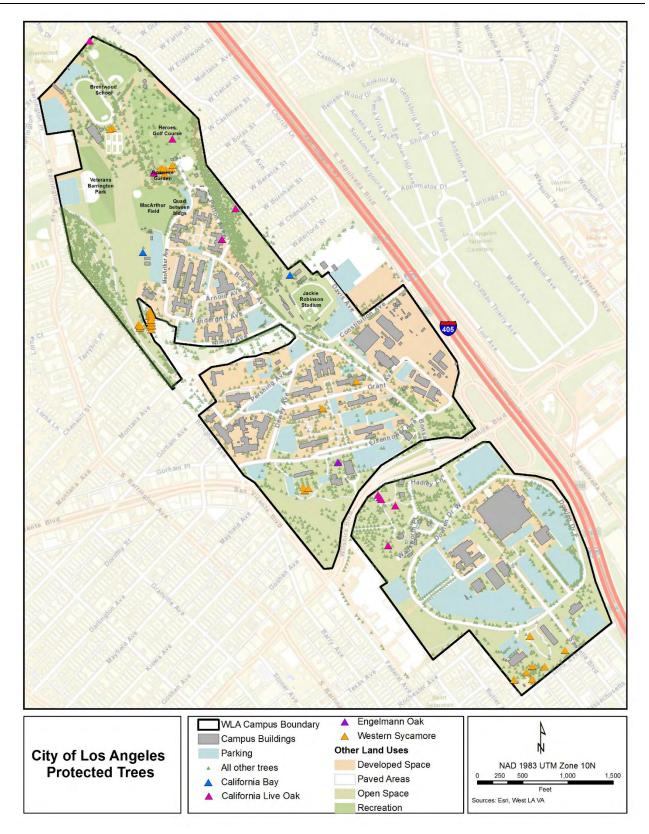


Figure 3.6-3. City of Los Angeles Protected Trees

### **3.6.2.2** Wildlife

Wildlife communities in urbanized areas consist of species that tolerate, if not use to their benefit, human-dominated ecosystems. These include species with a high tolerance of human disturbance, and species that can change their habitat, behavior, or food sources to adapt to environmental disturbances. Some species capitalize on effects of human disturbance, including those using human food sources and refuges or habitats (Urban Wildlife Working Group, 2012). A 2017 site survey of the WLA Campus logged multiple common wildlife species. The WLA Campus is inundated with pocket gophers (*Thomomys* sp.)



Figure 3.6-4. California Mantis

and their extensive burrows. Other mammal species witnessed during the site survey included the coyote (*Canis latrans*), squirrel (*Sciuridae* sp.), and rabbit (*Sylvilagus* sp.). Invertebrates observed during the survey included the honey bee (*Apis* sp.), California mantis (*Stagmomantis californica*) (Figure 3.6-4), viceroy (*Limenitis archippus*), Monarch butterfly (*Danaus plexippus*), spring azure butterflies (*Celastrina ladon*), cabbage white butterflies (*Pieris rapae*), sulphur moth (*Hesperumia sulphuraria*), and a variety of ants, flies, and spiders. Feral cats live on campus and help to reduce the rodent population. Wild parakeets (*Melopsittacus* spp. and *Psittacara* spp.) are also present on the WLA Campus (U.S. Department of Veterans Affairs, 2018c).

Table 3.6-2 lists the various bird species sighted during the survey. It documents the common name, scientific name, and identifies if the species is protected under the MBTA. Figure 3.6-5 shows birds sighted during survey efforts on the WLA Campus.

Table 3.6-2. Bird Species Documented on the WLA Campus

Common Name	Scientific Name	Protected under MBTA (Yes/No)
Anna's hummingbird	Calypte anna	Yes
Black phoebe	Sayornis nigricans	Yes
Blue jay	Cyanocitta cristata	Yes
Blue-gray gnatcatcher	Polioptila caerulea	Yes
Bushtit	Psaltriparus minimus	Yes
California scrub-jay	Aphelocoma californica	No
California towhee	Melozone crissalis	Yes
Cassin's vireo	Vireo cassinii	Yes
Common raven	Corvus corax	Yes
Cooper's hawk	Accipiter cooperii	Yes
Dark-eyed junco	Junco hyemalis	Yes
European starling	Sturnus vulgaris	No
Great horned owl	Bubo virginianus	Yes
Lesser goldfinch	Spinus psaltria	Yes
Mallard	Anas platyrhynchos	Yes

Common Name	Scientific Name	Protected under MBTA (Yes/No)
Merlin	Falco columbarius	Yes
Mourning dove	Zenaida macroura	Yes
Northern mockingbird	Mimus polyglottos	Yes
Red-tailed hawk	Buteo jamaicensis	Yes
Rock pigeon	Columba livia	No
Rufous hummingbird	Selasphorus rufus	Yes
Say's phoebe	Sayornis saya	Yes
Western bluebird	Sialia Mexicana	Yes
White crowned sparrow	Zonotrichia leucophrys	Yes
Yellow warbler	Setophaga petechia	Yes

Sources: (U.S. Department of Veterans Affairs, 2018c) (USFWS, 2013)



Figure 3.6-5. Birds Observed During Species Survey on WLA Campus

### **3.6.2.3** Fisheries

No perennial streams are present on the WLA Campus. A small area on the northwest boundary of the WLA Campus is an arroyo with an adjacent bluff. A 0.5-acre area within the arroyo is an assumed wetland, but water is rarely present and is never present long enough to support fisheries or most aquatic life.

## 3.6.2.4 Federally Listed Plants and Wildlife

In accordance with Section 7 of the ESA, consultation letters were requested through the USFWS' Information for Planning and Conservation (IPaC) website of Threatened and Endangered Species. Responses received from the USFWS Carlsbad and Ventura Regional Offices identified 11 protected species with the potential to occur within the WLA Campus (USFWS, 2017a) (USFWS, 2017b). Table 3.6-3 lists these 11 species and habitat requirements. The WLA Campus does not contain designated critical habitat for any ESA-listed species.

Table 3.6-3. Federally Listed Species Potentially Occurring within the WLA Campus

Common Name	Scientific Name	Federal Status	USFWS Office	Habitat Requirements/Notes	Habitat on WLA Campus
Birds					_
Coastal California gnatcatcher	Polioptila californica	Threatened	Carlsbad, Ventura	Coastal sage scrub: low California sagebrush, buckwheat, prickly pear cactus shrubs (under 6 feet tall), salvia	No
California least tern	Sterna antillarum browni	Endangered	Ventura	Coastal dunes, generally near to estuaries and coastal lagoons	No
Least Bell's vireo	Vireo bellii pusillus	Endangered	Ventura	Coastal, open beaches free of vegetation	No
Light-footed clapper rail	Rallus longirostris levipes	Endangered	Ventura	Coastal salt marshes	No
Marbled murrelet	Brachyramphus marmoratus	Threatened	Ventura	Coastal waters/bays, nests on island mountainsides or inland forests	No
South-western willow flycatcher	Empirdonax traillii extimus	Endangered	Ventura	Dense riparian trees and shrubs associated with rivers, swamps, lakes, and reservoirs	No
Western snowy plover	Charadrius alexandrinus nivosus	Threatened	Carlsbad, Ventura	Coastal beaches, sand spits, dunes, dredged material fill sites, saltponds	No
Amphibians					
California red- legged frog	Rana draytonii	Threatened	Ventura	Pools and backwaters of streams, creeks, marshes, springs, lagoons, and other aquatic habitats	No
Riverside fairy shrimp	Streptocephalus woottoni	Endangered	Ventura	Vernal pools	No
Vernal pool fairy shrimp	Branchinecta lynchi	Threatened	Ventura	Vernal pools	No
Plants					
Gambel's Water cress	Nasturtium gambelii	Endangered	Carlsbad	Wetland habitat; one wild population exists (Vandenberg Air Force Base)	No

Sources: (USFWS, 2017a) (USFWS, 2017b)

In November 2017, a weeklong site survey was conducted to verify the suitability of habitat and the presence of protected species at the WLA Campus. The WLA Campus does not contain wildlife corridors to support the movement or migration of wildlife other than birds or insects. The WLA Campus is approximately four miles from coastal beach habitat and does not contain vernal pools. During the survey, no federally listed species were sighted, and the survey team did not find any potential habitat that could support federally listed species (U.S. Department of Veterans Affairs, 2018c).

### 3.6.2.5 State-Listed Plants and Wildlife

In accordance with the CESA, a review of the California Natural Diversity Database (CNDDB) identified California-protected endangered, threatened, and state species of concern plants and animals. This list was cross-referenced against the last noted occurrence, back to 1950, within the Beverly Hills Quadrant where the WLA Campus is located. Table 3.6-4 lists these state-protected species and their habitat requirements.

Table 3.6-4. State-Listed Species Potentially Occurring within the WLA Campus

Common Name	Scientific Name	Last Noted in Quad*	State Status**	Habitat Requirements/Notes
Arachnids				
Gertsch's socalchemmis spider	Socalchemmis gertschi	1952	S1	Rocky outcrops and thick leaf litter
Insects				
Crotch bumble bee	Bombus crotchii	1953	S1S2	Grassland and scrub, near milkweeds, dusty maidens, lupines, medics, phacelias, and sages
Monarch butterfly – California overwintering population	Danaus plexippus	2014	S2S3	Access to streams, sunlight, and eucalyptus groves
Mammals				
Hoary bat	Lasiurus cinereus	1957	S3S4	Lower montane coniferous forests, old growth, riparian forests
South coast marsh vole	Microtus californicus stephensi	1957	S1S2	Grasslands and wet meadows, coastal wetlands and open oak savanna with good ground cover
Silver-haired bat	Lasionycteris noctivagans	1985	S3S4	Tree cavities or bark crevices; forage over open water or open grass
Reptiles				
Coastal whiptail	Aspidoscelis tigris stejnegeri	2007	S3	Hot and dry open areas with sparse foliage
Birds				
Coastal California gnatcatcher	Polioptila californica	1980	S2	Sagebrush, buckwheat, salvia, prickly pear cactus
Plants				
Mesa horkelia	Horkelia cuneata var. puberula	1956	S1	Chaparral, cismontane woodlands, coastal scrub
Nuttall's scrub oak	Quercus dumosa	2009	S3	Chaparral, closed-cone coniferous forests, coastal scrub
Southern tarplant	Centromadia parryi ssp. Australis	1957	S2	Marshes, swamps, salt marshes, valley and foothill grasslands, vernal pools, and wetlands

<sup>\*</sup> Year of last documented sighting within the Beverly Hills Quadrant, as noted by the CNNDB

During the November 2017 site survey, two teams of biologists noted six occurrences of solitary Monarch butterflies (*Danaus plexippus*). Monarch butterflies were noted at different times by the survey teams. As Monarch butterflies were not collected, it is possible that a single Monarch butterfly may have been observed in more than one location. Monarch butterflies are occasional transient visitors to the WLA Campus during their mid-October through February migration season. As illustrated in Figure 3.6-6, Monarch butterflies were noted in both natural settings and developed areas, in parts of both the North Campus and the South Campus (U.S. Department of Veterans Affairs, 2018c).

Monarch butterflies are found throughout the United States, but populations have severely declined since the 1990s, with a decline of nearly 97 percent of the overwintering population in coastal California (Xerces Society, n.d.). Monarch butterflies have a complicated life cycle and migration. Monarch butterflies that live west of the Rocky Mountains in Utah, Arizona, and southern Nevada migrate to and

<sup>\*\*</sup> California's ranking system is as follows: S1: critically imperiled, S2: imperiled, S3: vulnerable, S4: apparently secure, S5: secure Source: (CDFW, 2017)

hibernate in eucalyptus groves in California and return to the same trees every winter. Several locations in coastal southern California are noted for large populations of overwintering monarchs. The closest overwintering site to the WLA Campus, and the only location in Los Angeles, is the Leo Carrillo State Beach. This beach is approximately 28 miles from the WLA Campus and has a eucalyptus grove next to a creek with an overwintering population of approximately 700 monarchs (MonarchWatch, 1997).

No other state-listed species were observed on the WLA Campus during the survey. The team looked for but did not find habitat that could potentially support state-listed species. The team also sought but did not find evidence that state-listed species were present at some other time, including bat roosts, droppings, and colonies of host plants near areas with prey species and foraging plants (U.S. Department of Veterans Affairs, 2018c).

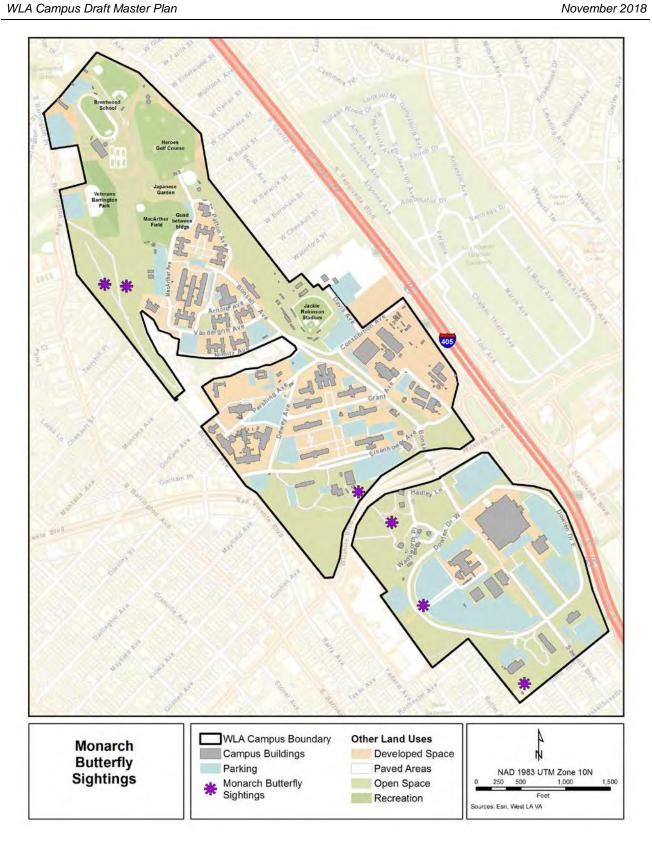


Figure 3.6-6. Monarch Butterfly Sightings on WLA Campus

### 3.7 Noise and Vibration

This section describes the regulatory and policy framework, and the noise receptors and sound levels on the WLA Campus. Noise is defined as unwanted sound waves or sound that is perceived as a nuisance by humans. Noise is considered an environmental pollutant because it can be a human health hazard. Exposure to high noise levels can cause hearing impairment and other health issues. Human response to noise varies based on noise levels and source type, distance between the source and receptor, receptor sensitivity, and time of day.

Sound is defined by the vibrations that travel through the air and is characterized by its frequency, commonly measured in hertz. Sound pressure levels are expressed on a logarithmic scale called decibels (dB). Thus, a doubling of the energy of a noise source, such as doubling of traffic volume, would increase the noise level by 3 dB, while a halving of the energy would decrease the noise level by 3 dB.

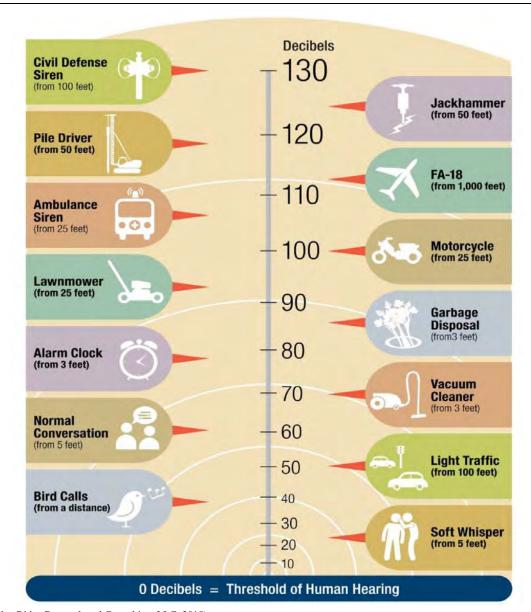
Because human ears do not respond to all frequencies equally, weighting schemes are applied to dB to account for this variability. The most often used are "A-weighted" decibels (dBA or dB(A)) and denote the adjustment of the frequency content of a noise event to represent the way in which the average human ear responds to the noise event. This gives greater weight to the frequencies audible to the human ear by filtering out noise frequencies not audible to the human ear. Human judgments of the relative loudness or annoyance of a sound correlate well with the dBA levels of those sounds. Therefore, the dBA scale is used for measurements and standards involving typical human perception of noise. On a daily basis, most people are exposed to sound levels of 50 dBA or higher.

Impulse noise (high-amplitude noise resulting from demolition or artillery activities) is measured in C-weighted decibels (dBC). The C-weighting scale measures more of the low-frequency components of noise than the A-weighting scale and better represents community response to impulse noise. Low-frequency sound components can cause buildings and windows to shake or rattle.

Human perception of noise is not linear in terms of dBA or acoustical energy. Two noise sources do not sound twice as loud as one source. The average healthy human ear can barely perceive either increases or decreases of 3 dBA, yet a change of 5 dBA is readily perceptible, and an increase (or decrease) of 10 dBA sounds twice (or half) as loud (Caltrans, 2013). Figure 3.7-1 provides common indoor and outdoor activities and the corresponding sound levels to demonstrate human perception of the correlation of noise with acoustical energy.

Noise levels in urban and residential areas vary based on housing density and location. A normal suburban area is subject to roughly 55 dBA, which increases to 60 dBA for an urban residential area, and 80 dBA in the downtown section of a city. The time of day is also an important factor for noise assessment. Acceptable noise levels during the day may interfere with the ability to sleep during evening or nighttime hours. Many federal agencies often use Day-Night Average A-weighted Sound Level ( $L_{dn}$ ) to assess the impact of noise on people.  $L_{dn}$  is the energy-averaged sound level measured over a 24-hour period to include evening hours obtained by averaging sound exposure level values for a given 24-hour period.

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Source: (Blue Ridge Research and Consulting, LLC, 2018)

Figure 3.7-1. Typical Noise Levels

Operational noise from constructed facilities includes equipment operation (e.g., pumps, generators, fans), vehicle trips to and from facilities for operations and maintenance (O&M), and facility worker trips (e.g., commuting). The intensity of noise decreases between a noise source and a noise receiver with increased distance from the action. In addition, a variety of measures can help to reduce noise levels during construction activities such as properly maintaining and muffling construction equipment, using sound shields or temporary noise barriers, limiting construction activity hours, avoiding idling of heavy equipment, and limiting the use of warning devices.

Similar to noise, vibration can also cause an unwanted nuisance impact. Vibration is defined as the oscillatory motion that can be described in terms of the displacement, velocity, or acceleration. Typical outdoor sources of vibration waves that propagate through the ground and create perceptible ground-

borne vibration in nearby buildings include construction equipment, steel-wheeled trains, and traffic on rough roads. Vibration amplitudes are measured by the peak particle velocity (PPV) and the root-mean-square (RMS) velocity. PPV is used to describe the instantaneous peak of the vibration signal and is used to assess immediate damage to a building. RMS measures the average of the squared amplitude of the signal and is used to evaluate the human response to groundborne vibration. The units used to describe RMS (vibration velocity level) are inches per second or VdB (a decibel unit referenced to one microinch per second [1  $\mu$ in/sec]). Background vibration is typically measured at 50 VdB. Humans can typically begin perceiving vibration at 65 VdB. At 100 VdB, fragile buildings could sustain minor damage from vibration. Vibration from manmade activities typically dissipates as the distance from the vibration source increases (Federal Transit Administration, 2018).

# 3.7.1 Regulatory and Policy Framework

### **3.7.1.1** Noise Control Act of 1972

The Noise Control Act of 1972, along with subsequent amendments (e.g., Quiet Communities Act of 1978 [42 U.S.C. §§ 4901–4918]), initiated a federal program to regulate noise to protect human health and minimize the public's annoyance from noise. The Noise Control Act establishes guidelines to address the effects of noise on public health and welfare and on the environment and serves to establish a means for effective coordination of federal research and activities in noise control. The Act authorizes the establishment of federal noise emission standards for products distributed in commerce and provides information to the public with respect to the noise emission and noise reduction characteristics of such products. As part of the Act, EPA has developed noise guidelines for state and local governments. To prevent hearing loss over the lifetime of a receptor, the yearly average Leq should not exceed 70 dBA, and the Ldn should not exceed 55 dBA in outdoor activity areas or 45 dBA in indoor areas to prevent interference and annoyance. Table 3.7-1 presents a summary of recommended guidelines for noise levels considered safe for community exposure without the risk of adverse health or welfare effects.

Table 3.7-1. Summary of EPA Recommended Noise Level Standards for Yearly Exposure

Effect	Level	Area
Hearing Loss	L <sub>eq(24)</sub> ≤ 70 dB	All areas
Outdoor activity interference and	L <sub>dn</sub> ≤ 55 dB	Outdoor in residential areas and farms and other outdoor areas where people spend widely varying amounts of time and other places in which quiet is a basis for use
annoyance	L <sub>eq(24)</sub> ≤ 55 dB	Outdoor areas where people spend limited amounts of time, such as school yards, playgrounds, etc.
Indoor activity interference	L <sub>eq</sub> ≤ 45 dB	Indoor residential areas
Indoor activity interference and annoyance	L <sub>eq(24)</sub> ≤ 45 dB	Other indoor areas with human activities, such as schools

Source: (U.S. Environmental Protection Agency, 1974)

# 3.7.1.2 VA Master Construction Specifications, Section 01 57 19, Temporary Environmental Controls

VA's Master Construction Specifications, Section 01 57 19, *Temporary Environmental Controls*, specifies certain controls on types of environmental pollution and damage that VA contractor's must

consider, and outlines the management and monitoring of noise levels during VA construction activities. Specifically, VA aims to minimize noise using every feasible action and limits construction to the hours between 8:00 a.m. and 6:00 p.m. unless otherwise permitted by local ordinance or the Resident Engineer. Furthermore, VA places restrictions on repetitive impact noises on the property as shown in Table 3.7-2:

Table 3.7-2. Maximum Permissible Repetitive Impact Noise (dB)

Time Duration of Impact Noise	Sound Level in dB
More than 12 minutes in any hour	70
Less than 30 seconds of any hour	85
Less than 3 minutes of any hour	80
Less than 12 minutes of any hour	75

Source: (U.S. Department of Veterans Affairs, 2011)

VA also maintains a maximum permissible construction equipment noise level at 50 feet as shown in Table 3.7-3.

Table 3.7-3. Maximum Permissible Construction Equipment Noise Levels at 50 feet (dBA)

Earth Moving Equipment		Materials Handling	Equipment
Front Loaders	75	Concrete Mixers	75
Backhoes	75	Concrete Pumps	75
Dozers	75	Cranes	75
Tractors	75	Derricks Impact	75
Scrapers	80	Pile Drivers	95
Graders	75	Jack Hammers	75
Trucks	75	Rock Drills	80

Source: (U.S. Department of Veterans Affairs, 2011)

## 3.7.1.3 California Department of Health Services Noise Standards

The California Department of Health Services (CDHS) has established guidelines for evaluating the compatibility of various land uses as a function of community noise exposure. These guidelines are shown in Table 3.7-4 as Community Noise Exposure Levels (CNEL). CNEL is the average equivalent A-weighted sound level during a 24-hour day, obtained after addition of five decibels to sound levels in the evening from 7 p.m. to 10 p.m. and addition of 10 decibels to sound levels at night from 10 p.m. to 7 a.m.

Table 3.7-4. California Community Noise Exposure Levels (CNEL) (dB)

Land Use	Normally Acceptable	Conditionally Acceptable	Normally Unacceptable	Clearly Unacceptable
Single Family, Duplex, Mobile Homes	50-60	55-70	70-75	Above 70
Multi-Family Homes	50-65	60-70	70-75	Above 70
Schools, Libraries, Churches, Hospitals, Nursing Homes	50-70	60-70	70-80	Above 80
Transient Lodging - Motels, Hotels	50-65	60-70	70-80	Above 80

Land Use	Normally Acceptable	Conditionally Acceptable	Normally Unacceptable	Clearly Unacceptable
Auditoriums, Concert Halls, Amphitheaters	-	50-70	-	Above 65
Sports Arena, Outdoor Spectator Sports	-	50-75	-	Above 70
Playgrounds, Neighborhood Parks	50-70	-	67-75	Above 72
Golf Courses, Riding Stables, Water Recreation, Cemeteries	50-75	-	70-80	Above 80
Office Buildings, Business and Professional Commercial	50-70	67-77	Above 75	-
Industrial, Manufacturing, Utilities, Agriculture	50-75	70-80	Above 75	-

Notes:

Normally Acceptable: Specified land use is satisfactory based upon the assumption that any buildings involved are of normal conventional construction without any special noise insulation requirements.

<u>Conditionally Acceptable</u>: New construction or development should be undertaken only after a detailed analysis of the noise reduction requirements is made and needed noise insulation features included in the design. Conventional construction but with closed windows and fresh air supply systems or air conditioning will normally suffice.

Normally Unacceptable: New construction or development should generally be discouraged. If new construction or development does proceed, a detailed analysis of the noise reduction requirements must be made and needed noise insulation features included in the design.

Clearly Unacceptable: New construction or development should generally not be undertaken.

Source: (Office of Planning and Research, 2017)

## 3.7.1.4 Los Angeles County Municipal Code Noise Regulation

Chapter 12.08, Noise Control, of the County of Los Angeles Municipal Code serves as the noise ordinance for the county and establishes noise standards to control unnecessary, excessive, and annoying noise and vibration in the county. Within Chapter 12.08 of the Los Angeles County Code, Section 12.08.380 assigns the following noise zones for receptor properties in the county:

- Noise Zone 1 Noise-sensitive areas
- Noise Zone 2 Residential properties
- Noise Zone 3 Commercial properties
- Noise Zone 4 Industrial properties

With respect to operational noise, Section 12.08.390 of the noise ordinance established exterior noise levels that should be applied to all receptor properties within a designated noise zone. These exterior noise levels are shown in Table 3.7-5.

Noise	Designated Noise Zone Land	Time Interval	Exterior Noise
Zone	Use (Receptor Property)		Level (dBA)
1	Noise sensitive area	Any time	45
2	Residential properties	10:00 p.m. to 7:00 a.m. (nighttime)	45
		7:00 a.m. to 10:00 p.m. (daytime)	50
3	Commercial properties	10:00 p.m. to 7:00 a.m. (nighttime)	55
		7:00 a.m. to 10:00 p.m. (daytime)	60
4	Industrial properties	Any time	70

Table 3.7-5. Los Angeles County Exterior Noise Standards by Noise Zone

Source: (Los Angeles County, n.d.)

The exterior noise levels shown in Table 3.7-5 are meant to be further applied as noise standards based on the duration of the noise; i.e., the louder the noise, the shorter the time it is allowed to last. The noise ordinance uses a number of noise metrics to define the permissible noise levels. These metrics include  $L_{50}$ ,  $L_{25}$ ,  $L_{8.3}$ ,  $L_{1.7}$ , and  $L_{max}$ , and are based upon a one-hour timeframe that indicates exceedances of 50, 25, 8.3, and 1.7 percent of the time, plus the maximum sound level during that time period. The following noise standards should be applied to the exterior noise levels provided in Table 3.7-5:

- Standard No. 1 shall be the exterior noise level that may not be exceeded for a cumulative period of more than 30 minutes in any hour. Standard No. 1 shall be the applicable noise level from Table 3.10-5; or, if the ambient L<sub>50</sub> exceeds the forgoing level, then the ambient L<sub>50</sub> becomes the exterior noise level for Standard No. 1.
- Standard No. 2 shall be the exterior noise level that may not be exceeded for a cumulative period of more than 15 minutes in any hour. Standard No. 2 shall be the applicable noise level from Table 3.10-5 plus 5 dB(A); or, if the ambient L<sub>25</sub> exceeds the forgoing level, then the ambient L<sub>25</sub> becomes the exterior noise level for Standard No. 2.
- Standard No. 3 shall be the exterior noise level that may not be exceeded for a cumulative period of more than 5 minutes in any hour. Standard No. 3 shall be the applicable noise level from Table 3.10-5 plus 20 dB(A); or, if the ambient L<sub>8.3</sub> exceeds the forgoing level, then the ambient L<sub>8.3</sub> becomes the exterior noise level for Standard No. 3.
- Standard No. 4 shall be the exterior noise level that may not be exceeded for a cumulative period of more than one minute in any hour. Standard No. 4 shall be the applicable noise level from Table 3.10-5 plus 15 dB(A); or, if the ambient L<sub>1.7</sub> exceeds the forgoing level, then the ambient L<sub>1.7</sub> becomes the exterior noise level for Standard No. 4.
- Standard No. 5 shall be the exterior noise level that may not be exceeded for any period of time. Standard No. 5 shall be the applicable noise level from Table 3.10-5 plus 20 dB(A); or, if the ambient L<sub>0</sub> exceeds the forgoing level, then the ambient L<sub>0</sub> becomes the exterior noise level for Standard No. 5.

## 3.7.1.5 City of Los Angeles Municipal Code Noise Regulation

The City of Los Angeles comprehensive noise ordinance can be found in Chapter XI of the Los Angeles Municipal Code (LAMC). Chapter XI establishes sound measurement and criteria, minimum ambient noise levels for different land use zoning classifications, sound emission levels for specific uses, hours of

operation for certain uses, standards for determining when noise is deemed to be a disturbance, and legal remedies for violations (City of Los Angeles, 2018). Section 112.05 of LAMC Chapter XI prohibits the operation of any powered equipment or powered hand tool that produces a maximum noise level exceeding the following noise limits at 50 feet from the noise source between the hours of 7:00 a.m. and 10:00 p.m. when the source is located within 500 feet of a residential zone (as depicted in Figure 3.7-2):

- 75 dB(A) for construction, industrial, and agricultural machinery, including crawler-tractors, dozers, rotary drills and augers, loaders, power shovels, cranes, derricks, motor graders, paving machines, off-highway trucks, ditchers, trenchers, compactors, scrapers, wagons, pavement breakers, and compressors and pneumatic or other powered equipment.
- 75 dB(A) for powered equipment of 20 horsepower or less intended for infrequent use in residential areas, including chain saws, log chippers, and powered hand tools.
- 65 dB(A) for powered equipment intended for repetitive use in residential areas, including lawn mowers, backpack blowers, small lawn and garden tools, and riding tractors (City of Los Angeles, 2018).

These noise limitations may not apply where compliance is deemed to be technically infeasible. Technically infeasible means that the noise limitations cannot be achieved despite the use of mufflers, shields, sound barriers, and other noise and vibration reduction devices or techniques. Such techniques include increasing distance between a noise source and a noise receiver during equipment operation or installing isolation equipment (e.g., vibration-dampening mounts).

Section 112.02 limits the operation of building mechanical equipment so as not to exceed the ambient noise level on the premises of any other occupied property by more than 5 dB. Section 41.40 prohibits construction activity (including demolition) and repair work where the use of any power tool, device, or equipment would disturb persons occupying sleeping quarters in any place of residence between the hours of 9:00 p.m. and 7:00 a.m., Monday through Friday, and between 6:00 p.m. and 8:00 a.m. on Saturday. All such activities are prohibited on Sundays and all federal holidays (City of Los Angeles, 2018).

### 3.7.1.6 Federal Transit Administration Vibration Guidelines

To address the human response to groundborne vibration, the Federal Transit Administration (FTA) has guidelines for maximum-acceptable vibration criteria for different types of land uses. Maximum-acceptable vibration criteria based on the frequency of an event are applied to different types of land uses to address the human response to groundborne vibration. These guidelines recommend 65 VdB, referenced to 1 μin/sec, and are based on the velocity amplitude for land uses where low ambient vibration is essential for interior operations (e.g., hospitals, high-tech manufacturing, laboratory facilities). The guidelines recommend 80 VdB for residential uses and buildings where people normally sleep, and 83 VdB for institutional land uses with primarily daytime operations such as schools, churches, clinics, and offices (Federal Transit Administration, 2018). Table 3.7-6 summarizes the general human response to different levels of groundborne vibration.

Table 3.7-6. Human Res	ponse to Different Levels of	Groundborne Vibration

Vibration- Velocity Level (VdB)	Human Reaction
65	Approximate threshold of perception
75	Approximate dividing line between barely perceptible and distinctly perceptible.  Many people find that transportation-related vibration at this level is unacceptable
85	Vibration acceptable only if there is an infrequent number of events per day

Source: (Federal Transit Administration, 2018)

Table 3.7-7 presents the vibration level changes that the FTA has determined to be acceptable for various land use categories.

Table 3.7-7. FTA Recommended Groundborne Vibration Impact Criteria

	Impact Levels (VdB; relative to 1 µin/sec)				
Land Use Category	Frequent Events	Occasional Events	Infrequent Events		
<b>Category 1:</b> Buildings where vibration would interfere with interior operations	65	65	65		
Category 2: Residences and buildings where people normally sleep	72	75	80		
Category 3: Institutional land uses with primarily daytime uses	75	78	83		

Notes: Frequent events are more than 70 vibration events per day; occasional events are between 30 and 70 vibration events per day; and infrequent events are fewer than 30 vibration events per day.

Source: (Federal Transit Administration, 2018)

Standards also have been established to address the potential for construction-caused vibration annoyance or interference. The primary concern regarding construction vibration is the potential for the operation of heavy-duty construction equipment to cause structural damage to buildings. Varying criteria have been developed to address the appropriate level of vibration considered acceptable before it may result in damage to structures or varying building types (Federal Transit Administration, 2018). Table 3.7-8 shows the project contributions to vibration-level thresholds that have been determined to be acceptable for different building types.

Table 3.7-8. FTA Recommended Construction Vibration Damage Criteria

Building Category	PPV (in/sec)	Approximate L <sub>v</sub>
Reinforced concrete, steel or timber (no plaster)	0.5	102
Engineered concrete and masonry (no plaster)	0.3	98
Nonengineered timber and masonry buildings	0.2	94
Buildings extremely susceptible to vibration damage	0.12	90

Notes: L<sub>v</sub> = Root Mean Square vibration velocity level expressed in decibels (VdB) referenced to 1 μm/sec (micro inch/second)

 $in/sec = inches \ per \ second; \ PPV = peak \ particle \ velocity$ 

Source: (Federal Transit Administration, 2018)

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### 3.7.2 Current Conditions

### 3.7.2.1 Noise Sources

The predominant noise levels at the WLA Campus are generated from transportation, industrial, or recreational activities. The proximity of the WLA Campus to I-405 and the Los Angeles International Airport make ground and air traffic a significant source of noise. Additional sources of sound at the WLA Campus include heating, ventilation, and air conditioning (HVAC) units; emergency sirens; recreational activities; local traffic; large vehicle deliveries and bus transportation; amplified music; solar power stations; human conversation; birds and insects chirping; water flowing at the Japanese Garden; and wind through vegetation.

#### 3.7.2.2 Noise Measurements

To identify representative noise levels within the WLA Campus, a monitoring study of 10 sites was conducted in 2017 (Blue Ridge Research and Consulting, LLC, 2018). The monitoring sites were selected to represent the diversity of activity occurring within and around the WLA Campus. Monitoring site locations were also diversified spatially to cover the exterior, interior, and borders of the WLA Campus, as well as to measure sound levels at varied distances from major roadways. Nine of the 10 monitoring sites were located within the WLA Campus, while the tenth site was located on VA land leased to Brentwood School. The study obtained noise measurements during four consecutive 24-hour periods from the morning of Friday, October 20, 2017 through the morning of Tuesday, October 24, 2017.

The noise metrics used were the  $L_{eq}$  and the NN% time exceeded level. The period of an  $L_{eq}$  measurement is typically related to an activity, and the  $L_{eq}$  duration is provided along with the value (e.g.,  $L_{eq}$  (24) denotes a 24-hour duration). The NN% time exceeded level is the sound level that is exceeded NN% of the time for a given period, such that:

- NN=99 (L<sub>99</sub>) represents the lowest noise level since 99 percent of the time noise levels are higher,
- NN=01 (L<sub>01</sub>) represents the highest noise level since noise levels are above this level only one percent of the time,
- NN=90 (L<sub>90</sub>) is typically used as the ambient background sound level, since sound levels are above this level 90 percent of the time,
- NN=50 (L<sub>50</sub>) describes the median sound level, and
- NN=10 ( $L_{10}$ ) denotes the top 10 percent of sound levels.

The one-second sound level data measured for this noise study were sorted to provide the range of sound levels that occurred on an  $L_{NN}$  basis.

Table 3.7-9 summarizes the audible sound sources observed at each monitoring site and includes A-weighted equivalent sound level ( $L_{Aeq}$ ) and A-weighted  $L_{10}$ ,  $L_{50}$ , and  $L_{90}$  time exceeded levels for the entire measurement period. In addition, the loudest A-weighted one-second sound level ( $L_{max}$ ) among all observed events is provided for each location, along with the date and time window in which the  $L_{max}$  measurement was made. On average, the loudest areas on the WLA Campus during the monitoring period were the VA Hospital and the Bonsall and Pershing Avenues intersection mainly due to passing

vehicles and I-405 traffic. The quietest area during the monitoring period was the soccer fields which were less affected by nearby traffic. Figure 3.7-2 shows  $L_{\text{Aeq}}$  levels for each monitoring site.

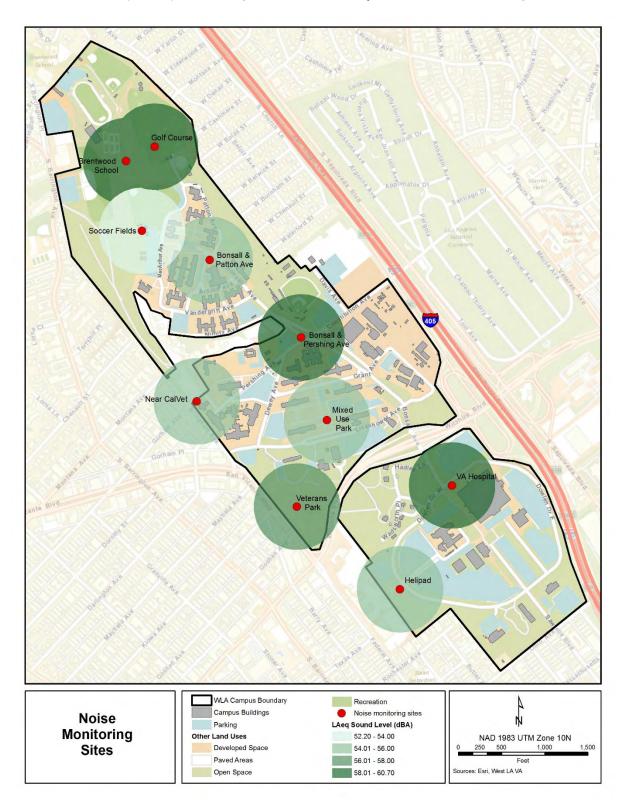


Figure 3.7-2. Noise Monitoring Sites on the WLA Campus

Table 3.7-9. Summary of Audible Sound Sources and Sound Levels at Monitoring Locations

Monitoring	Audible Sound Sources Observed	A-weighted Sound Level (dBA)					
Location		L <sub>Ae</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	L <sub>max</sub>	L <sub>max</sub> Observed
VA Hospital	Passing vehicles (trucks, buses) on Dowlen Drive; aircraft; Hospital HVAC; area traffic (I-405)	60.7	60.5	57.0	54.5	74.7	October 21, 2017 1:28:05-25 PM
Bonsall and Pershing Avenue	Passing vehicles (bus, SUV) on Bonsall Avenue; aircraft (helicopter, propeller); regular traffic along Wilshire Blvd. and I-405; metal clanging from sports field; birds chirping; wind through vegetation	60.5	61.0	57.0	54.3	81.1	October 21, 2017 3:46:40-47:00 PM
Brentwood School	Construction activity (forklift, crane); metal clanging; generator (lights); aircraft (helicopter, propeller); passing vehicles; area traffic; insects chirping	58.6	55.1	51.8	47.8	81.7	October 20, 2017 9:01:15-35 AM
Veterans Park Conservancy	Regular traffic along Wilshire and San Vicente Blvds., insects and birds chirping, aircraft (propeller), wind through vegetation	57.9	58.3	56.3	54.4	63.3	October 23, 2017 9:04:50-05:10 PM
Bonsall and Patton Ave (near Building 300)	Industrial pressurization unit at Building 209; VA HVAC units; passing vehicles (cars, trucks) on Bonsall Avenue; idling truck at Building 300; area traffic	55.5	56.1	53.2	51.3	57.2	October 23, 2017 8:29:50-30:10 PM
Helipad (near solar fields off Dowlen Drive)	Passing vehicles (motorcycles, police siren) on Dowlen Drive; aircraft (large, helicopter, propeller); solar panel power station; light wind in vegetation; birds chirping; area traffic (I-405)	54.6	54.8	51.4	49.8	79.8	October 23, 2017 5:30:20-40 PM
Near CalVet (near Building 264 on Gorham Avenue)	Vehicles (bus, motorcycle, truck) on Bringham Avenue; aircraft (large, propeller); pedestrians talking; area traffic (I-405); music	54.8	56.8	51.1	47.9	63.2	October 22, 2017 12:05:14-34 PM
Mixed Use Park (near Eisenhower Avenue)	Pedestrians talking, aircraft (helicopter), traffic along Wilshire Blvd. and Eisenhower Avenue, VA HVAC units, area traffic, birds chirping, amplified singing	55.1	54.7	52.7	51.2	66.5	October 23, 2017 3:51:10-30 PM

Monitoring	Audible Sound Sources		A-w	eighte	d Soun	d Level (	dBA)
Location	Observed	L <sub>Ae</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	L <sub>max</sub>	L <sub>max</sub> Observed
Soccer Fields (near Parking Lot 38 off MacArthur Avenue)	Generators (lights); idling vehicles; inserts pulsing; soccer activity (whistles, voices); wind thru vegetation; aircraft (large, helicopter, propeller); birds chirping	52.2	52.8	49.7	46.3	56.3	October 23, 2017 7:54:50-55:10 PM
Heroes Golf Course (near the Japanese Gardens)	Generators (lights); insects chirping; aircraft (helicopter, propeller); area traffic (I-405); soccer activity (voices); amplified music	58.5	58.9	56.0	54.0	61.0	October 23, 2017 7:40:50-41:10 PM

Notes: \* = observed

dBA = A-weighted decibels Leq = equivalent noise level Lmax = maximum noise level

LNN = noise level exceeded NN% of a specific period of time Source: (Blue Ridge Research and Consulting, LLC, 2018)

#### 3.7.2.3 Existing Sensitive Receptors

Land uses that are sensitive to noise and vibration are those uses where exposure would result in adverse impacts (i.e., injury or annoyance) and uses where lack of noise and vibration is an essential element of the area's intended purpose. Residences have the potential for increased, prolonged exposure of individuals to both interior and exterior noise and vibration. Other noise sensitive land uses may include schools, preschools, hospitals, convalescent facilities, hotels, motels, churches, libraries, and other uses where low interior noise levels are essential. Public parks are also typically considered sensitive receptors.

Due to the size of the WLA Campus, many buildings on- and off-campus might be subject to the annoyance of noise and vibration. Figure 3.7-3 presents the primary buildings and areas that were identified as potential noise sensitive receptors. The primary on-campus facilities with sensitive noise receptors are residential quarters, domiciliaries, and community living centers; medical, rehabilitation, and therapy facilities; research laboratories; and recreational facilities. The areas east, west, and south of the WLA Campus also contain sensitive receptors because they are largely residential, with a mix of single-family and multi-family buildings along I-405, Ohio Avenue, San Vicente Boulevard, and Federal Avenue.

Buildings that are normally occupied by people are considered sensitive to groundborne vibration due to the annoyance occupants may experience. Other vibration sensitive buildings include historic or lightweight buildings, buildings containing sensitive or hazardous materials, buildings used for research, manufacturing, or health care operations that are sensitive to very low thresholds of vibration to function effectively (e.g., magnetic resonance imaging [MRI] or microelectronics manufacturing facilities). Groundborne vibration can result in structural damage and may interfere with the intended functions of such buildings (Federal Transit Administration, 2018).

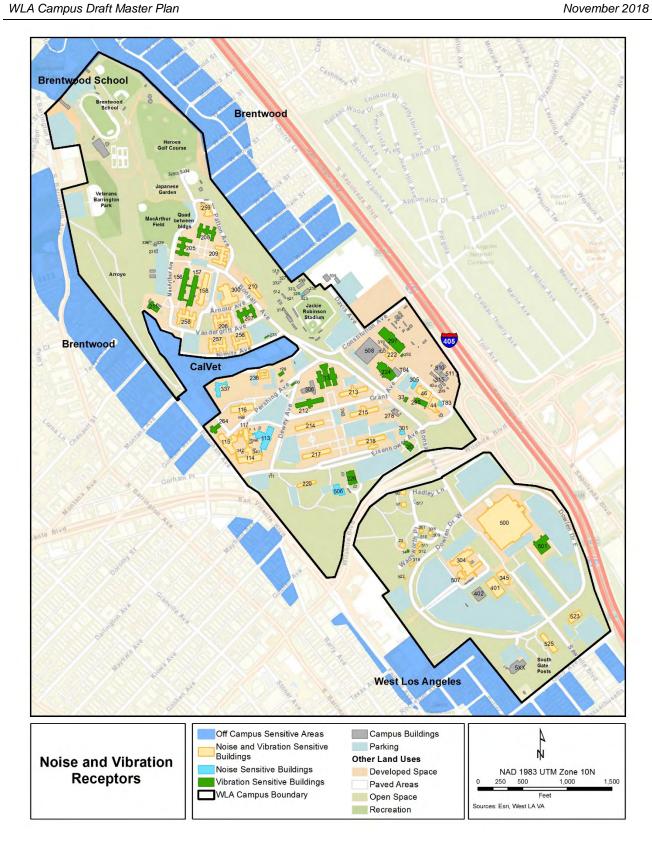


Figure 3.7-3. Noise and Vibration Sensitive Buildings on the WLA Campus

As detailed in Section 3.3, Cultural Resources Including Historic Properties, portions of the WLA Campus are within an NRHP historic district, and many of the buildings are considered contributing properties. In addition, the WLA Campus has several locations that are used as storage areas for hazardous or sensitive materials, as well as water and steam plants that could be vibration sensitive receptors. Figure 3.7-3 presents the primary WLA Campus buildings that are vibration receptors. For each building physically situated on the WLA Campus or under property agreement with VA, Table 3.7-10 indicates its current use, whether it is a noise or vibration sensitive receptor, and if it is a contributing property for the historic district.

Table 3.7-10. List of WLA Campus Buildings that are Noise and/or Vibration Sensitive

Building #	Description/Current Use	Noise Sensitive Building	Vibration Sensitive Building	Historic or Contributing Building
VA Building	s			
13	Storage (Vacant)	NO	YES	YES
14	Single Garage	NO	YES	YES
20	Wadsworth Chapel (Vacant)	NO	YES	YES
23	Governor's Mansion (Vacant)	YES	YES	YES
33	Superintendent's Home/Office (Vacant)	NO	YES	YES
44	Engineering Shop	YES	YES	NO
46	Engineering Shop	YES	YES	YES
63	Engineering M&O	YES	YES	NO
66	Trolley Station (Vacant)	NO	YES	YES
90	Duplex Quarters	YES	YES	YES
91	Duplex Quarters	YES	YES	YES
111	West Gate House (Vacant)	NO	YES	YES
113	Research Lab	YES	NO	NO
114	Research Lab	YES	YES	YES
115	Research Lab	YES	YES	YES
116	Outleased New Directions Homeless Vets	YES	YES	YES
117	Research Lab	YES	YES	YES
156	Vacant	NO	YES	YES
157	Vacant	NO	YES	YES
158	Swing Space/IRM (Vacant)	YES	YES	YES
199	Hoover Barracks (Vacant)	NO	YES	YES
205	MHC (Vacant)	NO	YES	YES
206	Research/Mental Health	YES	YES	YES
207	Former Salvation Army (Vacant)	NO	YES	YES
208	Rehab Medicine	NO	YES	YES
209	Veteran housing	YES	YES	YES

Building #	Description/Current Use	Noise Sensitive Building	Vibration Sensitive Building	Historic or Contributing Building
210	Research Lab/MIREC (Brentwood)	YES	YES	YES
211	Theater (Brentwood)	NO	YES	YES
212	Salvation Army (Vacant)	NO	YES	YES
213	Community Living Center	YES	YES	YES
214	Domiciliary	YES	YES	YES
215	Community Living Center	YES	YES	YES
217	Domiciliary	YES	YES	YES
218	Administration Building	YES	YES	YES
220	Integrated Medicine Center	YES	YES	YES
222	Occupational Safety & Health	YES	YES	YES
224	Support Services	NO	YES	YES
226	Wadsworth Theatre	NO	YES	YES
231	Grounds Maintenance Equipment	NO	NO	NO
233	Hazmat Building	NO	YES	NO
236	Police HQ	YES	YES	YES
249	Greenhouse	NO	NO	NO
256	Day Treatment Center/Mental Health	YES	YES	YES
257	Mental Health/New Directions/Methadone	YES	YES	YES
258	Mental Health Administration	YES	YES	YES
259	Com Work Therapy	YES	YES	YES
264	Annex Theatre (Vacant)	NO	YES	YES
292	Water Treatment Plant	NO	YES	YES
295	Steam Plant	NO	YES	YES
297	Supply Warehouse	NO	YES	YES
300	Dietetics	YES	YES	YES
301	AFGE Union	YES	NO	NO
304	Eye Clinic/Polytrauma/Employee Health	YES	YES	NO
305	Transportation Offices	YES	NO	NO
306	Cafeteria/Post Office	NO	NO	NO
307	Single Quarters	YES	YES	NO
308	Single Quarters	YES	YES	NO
309	Garage	NO	NO	NO
310	Garage	NO	NO	NO
311	Single Quarters	YES	YES	NO
312	Single Quarters	YES	YES	NO
318	Single Quarters	YES	YES	NO

Building #	Description/Current Use	Noise Sensitive Building	Vibration Sensitive Building	Historic or Contributing Building
319	Supply Storage	NO	NO	NO
325	Horticulture Restrooms	NO	NO	NO
326	Horticulture Office	YES	NO	NO
329	Golf Club House	NO	NO	NO
333	Horticulture Tool Shed	NO	NO	NO
334	Golf Club Storage Building	NO	NO	NO
336	Baseball Park Restrooms	NO	NO	NO
337	Research Animal House	YES	NO	NO
339	Baseball Park Band Shell	NO	NO	NO
340	Radiation Waste	NO	NO	NO
345	Radiation Therapy	YES	YES	NO
401	Administration & Mental Health	YES	YES	NO
402	Comprehensive Homeless Center	YES	YES	NO
500	Main Hospital	YES	YES	NO
501	Chiller Plant	NO	YES	NO
505	Engineering Grounds Maintenance	NO	NO	NO
506	VA District Council	YES	NO	NO
507	MRI Facility	YES	YES	NO
508	Laundry	NO	NO	NO
509	Recycling Center	NO	NO	NO
510	Transportation	NO	NO	NO
511	Storage	NO	NO	NO
512	Bird Sanctuary Workshop	YES	YES	NO
514	Quarters Storage/Parrot Sanctuary	NO	NO	NO
515	Nursery Tool Shed	NO	NO	NO
518	Horticulture Trailer	NO	NO	NO
522	Single Quarters	YES	YES	NO
523	Fisher House	YES	YES	NO
525	Patriot House	YES	YES	NO
5XX	American Red Cross	YES	NO	NO
T83	Welding Shop	YES	NO	NO
T84	Laundry Annex/Police Training	NO	NO	NO
Property Ag	reements			
-	Brentwood School	YES	YES	NO
-	Veterans Home of California	YES	YES	NO
-	US Air Force Property	NO	NO	NO

Building #	Description/Current Use	Noise Sensitive Building	Vibration Sensitive Building	Historic or Contributing Building
-	US Army Property	NO	NO	NO
-	California National Guard Property	NO	NO	NO

### 3.8 Land Use

This section provides an overview of the regulatory framework and current type, pattern, and density of land use activity for the WLA Campus and adjacent neighborhoods. For this section, land use is defined and characterized by relationships between building structures, open space, utility systems, roadways, transportation systems, and their physical and functional arrangement. An efficient land use management strategy involves the implementation of orderly development to minimize potentially adverse impacts relating to unplanned and unregulated development. Prudent planning, combined with land use regulations designed to accomplish plan objectives, will increase the likelihood of orderly growth.

# 3.8.1 Regulatory and Policy Framework

Land use activities at the WLA Campus are governed by the West Los Angeles Leasing Act of 2016 and VA directives and guidance regarding land use and site development. Real property owned by the Federal Government is exempt from local planning and zoning regulations. However, reasonable compatibility with existing and future land use designations and zoning ordinances in the project area must be considered (40 U.S.C. § 619(b)).

### 3.8.1.1 West Los Angeles Leasing Act of 2016

The WLA Campus is subject to the provisions of the West Los Angeles Leasing Act of 2016 (Pub. L. 114-226), which governs the terms and structure of land use agreements and the manner in which the campus land can be utilized. In particular, leases within the WLA Campus must "principally benefit Veterans and their families" as described in Section 2(1) of the Act, which states as follows:

"(1) Principally Benefit Veterans and Their Families Defined.--In this section the term "principally benefit veterans and their families", with respect to services provided by a person or entity under a lease of property or land-sharing agreement--(1) means services--(A) provided exclusively to veterans and their families; or (B) that are designed for the particular needs of veterans and their families, as opposed to the general public, and any benefit of those services to the general public is distinct from the intended benefit to veterans and their families; and (2) excludes services in which the only benefit to veterans and their families is the generation of revenue for the Department of Veterans Affairs."

#### 3.8.1.2 VA Directives and Guidance

VA incorporates a variety of measures to help manage compatibility with adjacent uses, planning and zoning codes, and local guidelines. In particular, the VA *Site Development Design Manual* and the VA

Sustainable Design Manual provide guidance for proposed land use activities. Principles articulated in these manuals include advancing local and regional planning goals; choosing location efficient sites that are pedestrian friendly; facilitating access by public transit; maximizing use of existing resources and infrastructure; encouraging infill development and preservation and adaptive re-use of historic and other existing buildings; and implementing LID and green building principles.

## 3.8.1.3 Local Land Use Planning and Zoning

The WLA Campus, as well as minor portions of the surrounding areas, are federally owned or unincorporated sections of Los Angeles County. The majority of the areas surrounding the WLA Campus are within the City of Los Angeles and are governed by the following adopted land use plans and policies: City of Los Angeles Municipal Code, City of Los Angeles General Plan, and City of Los Angeles General Plan Framework Element.

Local land use objectives are implemented through the community planning process. The City of Los Angeles has 35 community plans, of which four (West Los Angeles, Westwood, Bel Air-Beverly Crest, Brentwood-Pacific Palisades) are located within the surrounding areas as shown in Figure 3.8-1 and described in more detail in the subsections below.

## 3.8.1.3.1 West Los Angeles Community Plan Area

- **Description:** Located to the south, southwest, and southeast of the WLA Campus, the West Los Angeles Community Plan Area consists of approximately 4,565 acres of low rolling hills and flat plains. The plan area is bounded by Centinela Avenue to the west, Wilshire Boulevard and Santa Monica Boulevard on the north, National Boulevard, Pico Boulevard, and Exposition Boulevard to the south, and Durango Avenue, Robertson Boulevard, and Canfield Avenue to the east.
- Land Use: Large-scale land uses include Rancho Park Golf Course, Hillcrest Country Club, and Fox Studios. Single-family development comprises most of the residential land use. A mix of multi-family development is present, including apartments and condominiums at varying densities and building types (duplexes, small, medium, and large complexes and high-rise structures). Commercial land use includes strip development on major arterials (Wilshire, Santa Monica, Pico, Sawtelle, and Westwood Boulevards). Most of the commercial facilities are either small-scale and free standing or mini-mall type buildings. The Century City Shopping Center is a major shopping center that also contains high-rise office buildings, a major entertainment center, and two large hotels. The Westside Pavilion is a major shopping center that will be redeveloped for office space. Industrial land use is located between Sepulveda Boulevard and Cotner Avenue, and west of Sepulveda Boulevard near Olympic, Exposition and Pico Boulevards, consisting of small, medium, and large manufacturing businesses, wholesale/retail distribution outlets, and storage operations. A civic center providing governmental functions is located in the vicinity of Santa Monica Boulevard west of the I-405, providing administrative and community services with a County Courts building, library, post office, police station, and senior center. The Expo Line light rail system connecting Santa Monica to downtown Los Angeles has 19 stations in place over 15 miles with stations located in, and adjacent to, the southern section of the community.

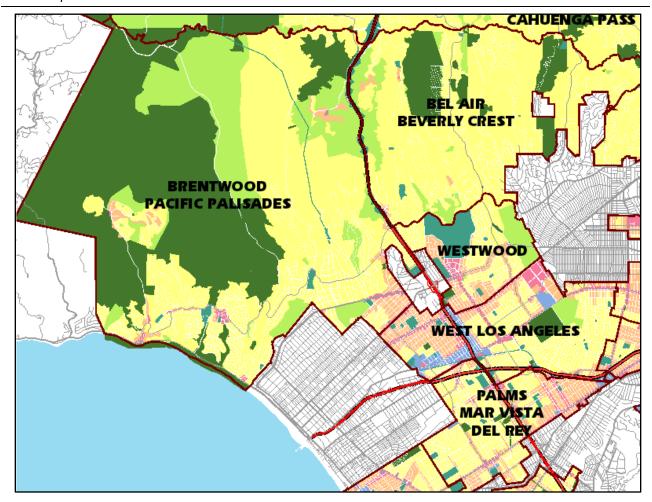


Figure 3.8-1. Community Plan Areas

• **Specific Plans:** Several specific plans regulate land use development in the community include the Century City North Specific Plan, Century City South Specific Plan, West Los Angeles Transportation Improvement and Mitigation Plan (WLA TIMP), and Sepulveda Corridor Specific Plan.

### 3.8.1.3.2 Westwood Community Plan Area

- **Description:** Located to the east of the WLA Campus, the Westwood Community Plan Area consists of approximately 2,571 acres of varying terrain, with flat land in the southern section and rolling hillside in the north. The plan area is bounded by Sunset Boulevard and the Bel Air Community to the north; the City of Beverly Hills to the east; Santa Monica Boulevard and the West Los Angeles Community to the south; and Brentwood-Pacific Palisades Community and Sepulveda Boulevard to the west.
- Land Use: Large-scale land uses include UCLA, Westwood Village, the Los Angeles Country Club, and the Mormon Temple. The predominant land use is residential of varying densities. Single family housing is located between Westwood Boulevard and the Country Club, north and south of Wilshire Boulevard; and south of Sunset Boulevard. The majority of multi-family

housing is medium and high density with high-rise towers situated along Wilshire Boulevard between the Los Angeles Country Club and Malcolm Avenue. Additional multi-family development has been constructed in Westwood Village, on Beverly Glen Boulevard, adjacent to Veteran Avenue, and in North Westwood Village. Low-rise multi-family housing, including three- and four-story buildings, is concentrated south of Wilshire Boulevard, along Hilgard Avenue just east of UCLA, and on portions of Sepulveda Boulevard. Commercial land uses are situated in four provinces: the high-rise office corridor along Wilshire Boulevard comprised of financial institutions and corporate headquarters, Westwood Village, a pedestrian-oriented commercial district located between UCLA and Wilshire Boulevard, Westwood Boulevard south of Wilshire Boulevard, and on Santa Monica and Sepulveda Boulevards.

• Specific Plans: Several specific plans regulate land use development in the community which include the Westwood Village, Wilshire-Westwood Corridor, Westwood Community Plan Multiple Family Residential, North Westwood Village and WLA TIMP.

## 3.8.1.3.3 Bel Air-Beverly Hills Crest Community Plan Area

- **Description:** Located to the northeast of the WLA Campus, the Bel Air-Beverly Hills Crest Community Plan Area contains approximately 9,900 acres of rolling hillside which is located south of Mulholland Drive, west of Laurel Canyon Boulevard, Wonderland Drive, and the City of Beverly Hills, north of Sunset Boulevard, and east of the I-405.
- Land Use: Residential development is predominantly single-family homes. A limited number of multi-family projects are located on upper Roscomare Road and near the intersection of Sepulveda Boulevard and Moraga Drive. Neighborhood commercial centers are located on upper Roscomare Road, and at Beverly Glen Circle, with mixed office and retail at Sepulveda Boulevard and Moraga Drive. Minor commercial land use activity is also present in Beverly Glen Canyon.
- **Specific Plans:** Specific plans regulating land use development in the community include the Mulholland Scenic Parkway.

# 3.8.1.3.4 Brentwood-Pacific Palisades Community Plan Area

- **Description:** Located to the west and northwest of the WLA Campus, the Brentwood-Pacific Palisades Community Plan Area contains approximately 24,163 acres. The plan area is bordered to the southwest by the Pacific Ocean; to the south by the City of Santa Monica and Wilshire Boulevard; to the east by the I-405, and to the north by Mulholland Drive. Approximately 55 percent of the land area has been designated as public open space.
- Land Use: Large-scale land uses include University High School, Topanga State Park, Will Rogers State Park, Riviera Country Club, Brentwood Country Club, Mt. St. Mary's College, and the Getty Center. Multiple neighborhoods are located within the community with Brentwood (eastern portion) and Pacific Palisades (western portion) consisting of the largest land masses. Major streets and thoroughfares are Sunset Boulevard, San Vicente Boulevard, Wilshire Boulevard, Pacific Coast Highway, Mulholland Drive, and Barrington Avenue. The communities

are primarily residential with a mix of multi-family development present, including apartments and condominiums at varying densities and building types (duplexes, small, medium, and large complexes and high-rise structures). Supporting retail and office land uses are mostly of low and medium density. Wilshire Boulevard immediately west of the WLA Campus contains medium-and high-density commercial and residential buildings such as the 25-story Wells Fargo Center, which provides convenient freeway access and close proximity to existing and planned transit lines.

• **Specific Plans:** Several specific plans regulate land use development in the community, including Westwood Community Multiple Family Residential, Westwood Design Review Board, Pacific Palisades Community Village, San Vicente Scenic Corridor, and Mulholland Scenic Parkway.

#### 3.8.2 Current Conditions

The WLA Campus is located in an urban setting in an unincorporated area of Los Angeles County. As described in Section 1.3, Facilities, the current land uses at the WLA Campus include primarily health care, residential, administrative, and operational support functions. The South Campus is zoned as IT – Institutional, and the North Campus is zoned as O-S – Open Space (Los Angeles County Department of Regional Planning, 2016).

The WLA Campus is surrounded by a diverse range of uses and conditions, including fully developed residential neighborhoods, commercial districts, government facilities, and open space recreational facilities, comprised of varying degrees of low, medium, and high-density buildings. The eastern quadrant consists of low-density residential neighborhoods to the north, the I-405 through the middle section, and open space recreational facilities (Bad News Bears Field) to the south. Further east of the I-405 are additional low-density residential neighborhoods, the LANC situated on 114-acres, the 17-story Wilshire Federal Building, additional lower density federal facilities, and Westwood Park. The southern quadrant is comprised of medium-density residential buildings and low- to medium-density commercial projects. The western quadrant contains medium-density residential buildings both north and south of Wilshire Boulevard. Land uses along Wilshire Boulevard and San Vicente Boulevard include medium to high-density residential and commercial buildings including ground floor retail and restaurants. The northern quadrant is comprised of a multitude of land uses including low-density residential, medium-density residential, low- and medium-density commercial (Brentwood Village), United States Postal Service (USPS) facility, public space recreational facilities, retail, and restaurants.

The majority of the surrounding areas are located within the City of Los Angeles and governed by the City of Los Angeles Municipal Code. Figure 3.8-2 provides an overview of the current land uses of the surrounding areas.



Figure 3.8-2. Surrounding Areas Land Use Map

# 3.9 Floodplains, Wetlands, and Coastal Zone

This section describes the regulatory and policy framework and existing environment at the WLA Campus for floodplains, wetlands, and coastal zone. Local hydrology, water quality, and groundwater are discussed in Section 3.5, Hydrology and Water Quality.

Floodplains are generally flat land areas along the edge of a stream, river, or other body of water that collect water when the waterbody overflows its own normal water channel due to high rainfall, snowmelt, or high tide. FEMA defines floodplains as "any land area susceptible to being inundated by floodwaters from any source" (FEMA, 2017a). Floodplains, when allowed to function in their natural state, can contain water within stream channels when high stream flows occur. Debris and sediment from flooding events build up along the edges of the floodplains and create natural levees, which protect upland areas from future flood waters. Wetlands are defined by the USACE as "those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions" (USACE, 1998). Wetland areas may hold water seasonally or year-round, and wetlands can support unique plant species and are important habitat for many wildlife species.

# 3.9.1 Regulatory and Policy Framework

# 3.9.1.1 Federal Water Pollution Control Act (Clean Water Act)

As described in Section 3.5.1, Regulatory and Policy Framework, the CWA (33 U.S.C. § 1251 et seq.) is the primary federal statute governing surface water and groundwater resources. The CWA aims to protect water quality and to restore and maintain the chemical, physical, and biological integrity of waters of the United States. Under the CWA, EPA and states are delegated certain responsibilities in water quality control and water quality planning. In California, the SWRCB and nine RWQCBs implement many of the CWA provisions. The Los Angeles RWQCB is aligned to the WLA Campus.

Section 401 of the CWA allows states the opportunity to address aquatic resource impacts of federally issued permits and licenses. The primary function is for states to help protect water quality by providing them the ability to grant, grant with conditions, deny, or waive Section 401 certification (e.g., CWA Section 404 permit). The SWRCB is responsible for reviewing any proposed federally permitted or licensed activity that may impact water quality.

### 3.9.1.2 Coastal Zone Management Act

The Coastal Zone Management Act (CZMA; 16 U.S.C. § 1451 et seq.) was enacted in 1972 to preserve, protect, develop, and where possible, to restore and enhance the resources of the nation's coastal zone. Coastal states are encouraged to develop state coastal management programs, and comprehensively manage and balance competing uses of and impacts to coastal resources. The CZMA requires that any federal actions affecting any land or water use, or natural resource of the coast be consistent with the enforceable policies of a state's federally approved coastal management program. The California Coastal Commission conducts consistency evaluations under the CZMA in California.

## 3.9.1.3 California Porter Cologne Water Quality Control Act

As described in Section 3.5.1, the California Porter-Cologne Water Quality Control Act (California Water Code § 13000 et seq.) was enacted in 1969 and is the primary law governing water quality regulation in the state. The Act establishes a water protection program and beneficial uses of water, applicable to surface waters, wetlands, and groundwater and to both point and nonpoint sources of pollution.

### 3.9.1.4 EO 11990, Protection of Wetlands

EO 11990, *Protection of Wetlands*, directs federal agencies to "avoid to the extent possible the long- and short-term adverse impacts associated with the destruction or modification of wetlands and to avoid direct or indirect support of new construction in wetlands whenever there is a practicable alternative." Federal agencies shall minimize impacts to wetlands and preserve and enhance the natural and beneficial values of wetlands in carrying out their responsibilities for the use, management, or development of federal lands.

#### 3.9.1.5 EO 11988, Floodplain Management

EO 11988, *Floodplain Management*, was issued in 1977 in furtherance of NEPA and the National Flood Insurance Act of 1968 and the Flood Disaster Protection Act of 1973, as amended (42 U.S.C. § 4001 et seq.). EO 11988 requires federal agencies to "avoid to the extent possible the long- and short-term adverse impacts associated with the occupancy and modification of floodplains and to avoid direct or indirect support of floodplain development whenever there is a practicable alternative."

Federal agencies are to use maps prepared by the Federal Insurance Administration of FEMA (Flood Insurance Rate Maps [FIRMs] or Flood Hazard Boundary Maps) to determine whether a proposed action is located in or would likely affect a floodplain. If no floodplain impact is identified, the action may proceed without further consideration. If the agency determines that a proposed action is located in, or would affect a floodplain, a floodplain assessment must be undertaken and included in the EIS. If there is no practicable alternative to locating in or affecting the floodplain, the federal agency must act to minimize potential harm to the floodplain. The federal agency also must act to restore and preserve the natural and beneficial values of floodplains as part of the analysis of all alternatives under consideration.

### 3.9.2 Current Conditions

### 3.9.2.1 Floodplains

The area surrounding the WLA Campus lies in a relatively flat alluvial plain that slopes from the Santa Monica mountains approximately one mile to the north. There are pockets of 100-year and 500-year flood hazard zones immediately north and west of the WLA Campus, and more extensive flood hazard zones to the east and south. These 100-year and 500-year hazard zones are outside the WLA Campus and do not extend onto Campus property (FEMA, 2018).

The WLA Campus is spread across two FEMA FIRM panels in Los Angeles County. Based on the two FIRMs (i.e., Panel 06037C1580F, Panel 06037C1590F), the project area is identified as Zone X or as an area outside the 0.2 percent annual chance (500-year) floodplain (FEMA, 2008a; FEMA, 2008b). This means that the WLA Campus is in an area of minimal flood hazard and has a low risk of flooding. Due to

the low risk of potential flooding, the purchase of flood insurance is not required in these areas (FEMA, 2017b). There have been no reported incidents of flooding on the WLA Campus in at least the last 30 years (National Weather Service, 2017).

As described in Section 3.5, Hydrology and Water Quality, there are no intermittent or perennial surface waterbodies on the WLA Campus. An arroyo is located in the northwestern edge of the WLA Campus and has limited streamflow.

#### **3.9.2.2 Wetlands**

Wetlands are common throughout California, and include tidal flats and marshes, lakeshores, desert washes and oases, and bogs and fens in mountains and valleys. California's wetlands provide habitat for more species of plants and animals than any other habitat type in the state (Southern California Wetlands Recovery Project, 2018). In total, there are 2.9 million acres of wetlands throughout California and the greatest concentration of wetlands is found in the San Francisco Bay Delta and Central Valley Regions which has 38 percent of the state's total wetlands acreage. The South Coast Region, which includes the WLA Campus, has roughly three percent of the state's total wetlands, totaling 100,000 acres (roughly three percent) (California Natural Resources Agency, 2010).

The WLA Campus is mostly developed, and only one intermittent stream channel has been mapped by the USFWS National Wetland Inventory (NWI) as a wetland area (Figure 3.9-1). This 1.16-acre area, located in the arroyo area on the northwestern edge of the WLA Campus, is described by the NWI mapper as a freshwater forested/shrub wetland (USFWS, 2017c). The NRCS Web Soil Survey shows the arroyo area to have a water table (soils with a zone of saturation) of greater than 6.5 feet (>200 centimeters) below the surface (NRCS, 2017a). A water table at a 6.5-foot depth would not support a year-round wetland on that site.

Historically, maps show the arroyo to be a natural area with intermittent to year-round drainage (NRCS, 2017a; California Wetlands Monitoring Workgroup, 2017; USGS, 2017b). Before 1996, a Los Angeles County storm drain terminated at the north end of the arroyo within the WLA Campus. In 1996, an additional 2,500-foot storm sewer and drain pipe was installed underground at the north end of the arroyo, directing the flow south to control the stormwater. Fill material was used to bury the stormwater pipe and to facilitate a landscape which could be used for future development. At the southern end of the storm drain extension, three acres of wetlands were constructed. Presently, much of the upper filled area contains sports fields and facilities used by the Brentwood School and no longer supports any wetland features (Locus Technologies, 2000).

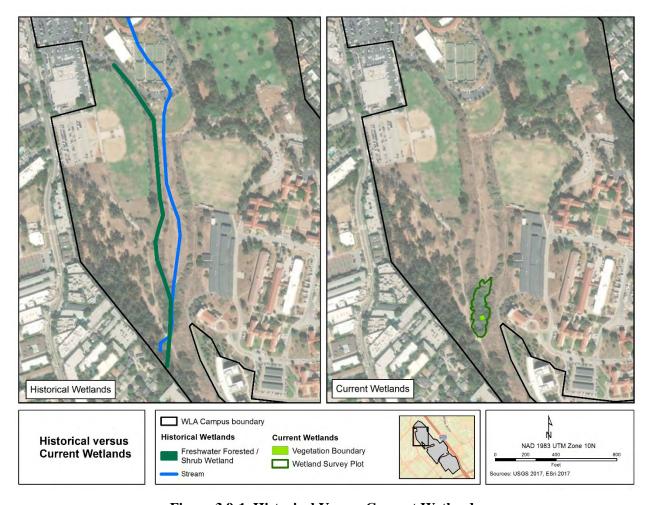


Figure 3.9-1. Historical Versus Current Wetlands

A ground-truthing survey of the undeveloped areas of the entire arroyo was conducted in November 2017. Based on the surface features observed during the survey and considering the stormwater diversion drain project, the mapped hydrology and the USFWS NWI data no longer appear to be consistent with the current environment and wetland features present in the arroyo (Figure 3.9-1). The current conditions of the arroyo reflect minimal streamflow and hydrology in the northern undeveloped portion (Figure 3.9-2), and a distinct area where water is present in the southernmost portion (Figure 3.9-3) (U.S. Department of Veterans Affairs, 2018).



Figure 3.9-2. North (Upper) End of the Arroyo



Figure 3.9-3. Southern (Lower) End of the Arroyo Below the Storm Drain Outflow

The presence of water corresponds with the outflow of the storm drain system. An approximately 0.5-acre area below the lower storm drain outflow was observed to support wetland vegetation. One area located approximately 200 feet south of the outflow was accessible to conduct wetland sampling (denoted as survey plot, Figure 3.9-1).

The arroyo below the stormwater outflow appears to act as an ephemeral <sup>12</sup> drainage during and following storm events, or after heavy irrigation from areas connected to the storm drain system. Some natural hydrology may be present due to the low point in the arroyo topography. This area contains dense vegetation, including native species that are associated with wetland and riparian areas such as arroyo willow and mulefat, yet the predominant vegetation is an invasive, non-native species known as arundo or giant reed. Much of the wetland area contains vegetation so dense that sunlight is unable to reach the bottom of the canyon. A smaller area within the 0.5-acre area is likely a wetland based on the presence of wetland vegetation, hydrology, and soils within the wetland survey plot (Figure 3.9-1).

The wetland survey plot was located within an area that had been cleared of vegetation. The current conditions of the wetland survey plot are atypical from the rest of the overgrown, inaccessible surrounding vegetation and canyon area conditions. Due to the vegetation removal, the wetland survey plot receives sunlight and some understory vegetation was present, although most of the area was bare ground and covered with remnants of the cut vegetation. Table 3.9-1 lists and Figure 3.9-4 shows vegetation species, wetland indicator status, and percent cover within the wetland survey plot. Based on the wetland dominance of the vegetation, hydrophytic vegetation is present and dominant within the wetland survey plot, indicating the plot supports wetland vegetation (U.S. Department of Veterans Affairs, 2018).

9-1. Vegetation Identifi	T		Plot
T	1	1	
 Common Nome	Doroont	\Matland	

Scientific Name	Common Name	Percent Cover	Wetland Indicator Status	Native/Non- native
Arundo donax L.	Arundo/giant reed	10%	FACW <sup>1</sup>	Non-native
Cyperus involucratus Rottb.	Umbrella plant	1%	FACW <sup>1</sup>	Non-native
Fraxinus uhdei (Wenz.) Lingel.	Shamel ash	1.0%	FACU <sup>2</sup>	Non-native
Oxalis pes-caprae L.	Bermuda buttercup	0.2%	N/A	Non-native
Ricinus communis L.	Castor bean	2%	FACU <sup>2</sup>	Non-native
Salix lasiolepis (Benth.)	Arroyo willow	70%	FACW <sup>1</sup>	Native

<sup>&</sup>lt;sup>1</sup>FACW—Facultative Wetland: Occasionally found in non-wetlands but usually occur in wetlands (67-99 percent wetland occurrence).

Sources: (Lichvar, Melvin, Butterwick, & Kirchner, 2012; USACE, 2008)

<sup>&</sup>lt;sup>2</sup>FACU—Facultative Upland: Occasionally found in wetlands but usually occur in non-wetlands (1-33 percent wetland occurrence).

<sup>&</sup>lt;sup>12</sup> Ephemeral: lasting for a short time; a temporary drainage (Cambridge University Press, 2016).



Figure 3.9-4. Vegetation Within the Wetland Survey Plot

Soils on the upland slopes of the wetland survey plot were dry, but toward the bottom of the slopes, the soils were moist and showed the presence of water. These zones of soils, located immediately above the water table such that they retain water are called a capillary fringe, were present where the steep slope on the east side of the channel intersected with the damp soils at the bottom of the channel (Figure 3.9-5). Soils observed in the moist areas were coated sand, gravel, silt, and a layer of dark, sticky silt at the surface. Soil samples ranged from olive-black to very dark greyish brown, and light olive brown to greyish olive. The texture from samples were sandy clay loam with silt loam on the surface, and silty clay loam. No mottling, reducing, or other hydric soil conditions were present in the samples (U.S. Department of Veterans Affairs, 2018).



Figure 3.9-5. Soils Within the Wetland Survey Plot

Wetland hydrology indicators include standing water just upstream of the sample plot. The standing water was measured at approximately 9.5 inches deep about two feet from the downstream edge. Aquatic invertebrates, most likely mosquito or midge larvae, were observed. The water had a thin layer of oil or scum and was slightly cloudy. Downstream of the standing water, within the survey plot, the soils were moist and a capillary fringe of about 6 to 12 inches was present along the banks of the canyon. Figure

3.9-6 shows wetland hydrology features within and upstream of the survey plot (U.S. Department of Veterans Affairs, 2018).



Figure 3.9-6. Standing Water and Evidence of Standing Water within and North of Wetland Survey Plot

Based on the survey findings within the area below the storm drain outflow, it is suspected that one large area or several smaller areas within the dense vegetation are wetlands. Presently, based on the findings of the survey, at least the single survey plot supports wetland conditions (U.S. Department of Veterans Affairs, 2018).

#### 3.9.2.3 Coastal Resources

Located along the Pacific Coast, California has 3,427 miles of shoreline extending from the border with Oregon through 15 California coastal counties to the international border with Mexico (NOAA, 2018). The coastal zone consists of an area of land and water along the shoreline that was established by the

California Coastal Act of 1976. The California coastal zone varies in width from several hundred feet in highly urbanized areas and up to five miles in some rural areas and extends offshore three miles. The California coastal zone is under the jurisdiction of the California Coastal Commission with the exception of the San Francisco Bay, which is regulated by the Bay Conservation and Development Commission. The WLA Campus is not within the coastal zone and is three miles northeast of the nearest coastal zone boundary (Figure 3.9-7) (California Coastal Commission, n.d.).

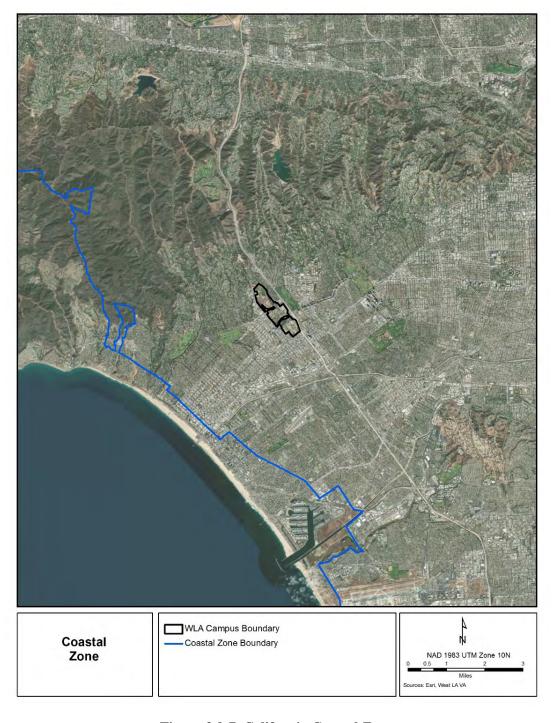


Figure 3.9-7. California Coastal Zone

#### 3.10 Socioeconomics

This section describes the regulatory environment and socioeconomic characteristics of the affected environment, including population trends, income, labor force and employment, housing and homelessness, and WLA Campus patient characteristics. While closely related to socioeconomics, Section 3.15, Environmental Justice, includes a more detailed analysis regarding race and ethnicity, poverty, and homelessness.

# 3.10.1 Regulatory and Policy Framework

The regulatory framework for addressing socioeconomics is based on the NEPA requirement for federal agencies to use a systematic and interdisciplinary approach that integrates natural and social sciences in planning and decision-making that could impact the human environment (42 U.S.C. § 4332(2)(A)). CEQ regulations for implementing NEPA state that the "[h]uman environment shall be interpreted comprehensively to include the natural and physical environment and the relationship of people with that environment." The regulations also state that "[w]hen an environmental impact statement is prepared and economic or social and natural or physical environmental effects are interrelated, then the environmental impact statement will discuss all of these effects on the human environment" (40 CFR §1508.14).

#### 3.10.2 Current Conditions

### 3.10.2.1 Geographic Areas of Analysis

Socioeconomics and the associated subject of environmental justice require several different geographic areas of analysis. The following list describes characteristics of geographic areas reviewed for this Proposed Action and provides examples of how these geographic areas relate to socioeconomic (and environmental justice) topics.

- California Socioeconomic data tables and the related discussions use statewide statistics as a benchmark, or reference population, to compare to the project-specific geographic areas of analysis.
- Greater Los Angeles Healthcare System Service Area (GLAHS) As described in Chapter 1, VA's GLAHS "catchment" or service area includes the five counties of Kern, Los Angeles, Santa Barbara, San Luis Obispo, and Ventura. Figure 1.1-1 shows the geographic extent of the GLAHS service area. Veterans from throughout this five-county area utilize services on the WLA Campus and associated medical center and community clinics. Data on the general population and Veteran population in the GLAHS service area are important socioeconomic (and environmental justice) indicators for this PEIS.
- Los Angeles County Los Angeles County is the most populous county of the GLAHS service
  area encompassing nearly 81 percent of the service area population in 2016 (Table 3.10-1). Due
  to the smaller population size of the other four counties, the distance of those counties to the
  WLA Campus, and the presence of VA community clinics in those counties, most of the Veterans

<sup>&</sup>lt;sup>13</sup> Veterans from beyond the five-county area may use the WLA Medical Center for some services. In addition, VA Long Beach Healthcare System's catchment includes portions of Los Angeles County.

served at the WLA Campus are from Los Angeles County. In addition, due to the size of Los Angeles County's population and economy, and the relatively central location of the WLA Campus within the county, Los Angeles County dominates the social and economic environment of the WLA Campus. Therefore, this PEIS gives specific attention to social and economic data for Los Angeles County. It also uses Los Angeles County as a reference population for discussion of social and economic conditions in the communities adjacent to the WLA Campus.

- Adjacent Communities The WLA Campus is surrounded by several distinct communities within
  the City of Los Angeles. Each of these communities has a well-known identity, a sense of place
  among residents, and recognition through a neighborhood council or community plan established
  by the City of Los Angeles. This PEIS addresses four communities adjacent to the WLA Campus
  (Figure 3.10-1), as follows:
  - Brentwood Located west and north of the WLA Campus, Brentwood includes some of the wealthiest neighborhoods in Los Angeles. The area is primarily residential, including low-density, single-family homes in the hillside areas north of San Vicente Boulevard, with some retail and professional offices mostly along San Vicente and Wilshire Boulevards, and no industrial land uses (Los Angeles Times, 2017). The area is defined by census tracts<sup>14</sup> that make up the southeast portion of the City of Los Angeles's Brentwood-Palisades Community Plan (City of Los Angeles, 2010) and includes most of the area of the Brentwood Homeowners Association (Brentwood Homeowners Association, 2018).
  - West Los Angeles Located south of the WLA Campus, most of the residential land use in West Los Angeles is moderate to high-density single-family development, and a mix of multi-family development with varying densities and building types. Most of the commercial facilities are small retail facilities that serve local neighborhoods with a few larger shopping centers that draw customers from adjacent communities. Some commercial and industrial land, mainly along or near Olympic Boulevard, serves small to large manufacturing businesses, distribution centers, and storage facilities (City of Los Angeles, 1999). The area consists of all the census tracts within the boundary of the West Los Angeles Neighborhood Council (EmpowerLA, 2003).
  - Westside Located southeast of the WLA Campus, Westside is characterized by low- to high-density single-family residential development with retail and other commercial development located along heavily traveled routes such as Santa Monica, South Sepulveda, and Pico Boulevards. The area south of Santa Monica Boulevard and east of Century Park West, known as Century City, is characterized by very high density and mostly high-end commercial and residential development. The Rancho Park Golf Course takes up a large area south of Pico Boulevard and west of Motor Avenue. The area includes most of the census tracts that correspond to the boundary of the Westside Neighborhood Council (EmpowerLA, 2002). A census tract east of Motor Avenue and two census tracts south of I-10 are not included because of their considerable distance from the WLA Campus.

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<sup>&</sup>lt;sup>14</sup> A census tract is a geographic area used by the U.S. Census Bureau. Census tracts are generally defined to include between 1,200 and 8,000 people, using roads and other visible physical features as well as relatively stable political boundaries (counties and sometimes municipalities) and "are delineated with the intention of being maintained over a long time so that statistical comparisons can be made from census to census" (U.S. Census Bureau, 2018d).

- Westwood Located east of the WLA Campus, Westwood consists of residential areas and commercial use concentrated in specific areas. The residential areas are primarily low- to moderate-density single-family development with some multi-family development. Commercial areas occur predominantly along or near Wilshire and Santa Monica Boulevards. Additional major land uses include the UCLA campus and UCLA Medical Center, and at the far east side of Westwood from the WLA Campus, the Los Angeles Country Club (City of Los Angeles, 2001). The area includes all census tracts within the boundary of the Westwood Neighborhood Council (EmpowerLA, 2010).
- WLA Campus As described in Chapter 1, Introduction, the WLA Campus is one of the largest
  medical center campuses in VA's system and provides a full range of medical services to
  Veterans, including a state-of-the-art hospital and ambulatory care, rehabilitation, residential care,
  short-term and permanent housing, and long-term care services. Therefore, when available, VA
  statistics describe the social and economic characteristics of the WLA Veteran patient population,
  including homeless Veterans.
- Census Tract 7011 The WLA Campus is located within Census Tract 7011 (Figure 3.10-1). Other prominent land uses within Census Tract 7011 and on the east side of the I-405 are the LANC north of Wilshire Boulevard and a large federal building south of Wilshire Boulevard. Large parcels within Census Tract 7011 and adjacent to, but not within the WLA Campus, include north of Wilshire Boulevard, a U.S. Post Office, and CalVet; and south of Wilshire Boulevard, a U.S. Army Reserve facility and the Westwood Transitional Living Village operated by the Salvation Army. The resident population (not including inpatients at the WLA hospital) of Census Tract 7011 consists of:
  - Residents of the CalVet Veterans Home of California West Los Angeles, a 396-bed facility completed in 2010. This facility is not considered part of the WLA Campus;
  - o Residents of the Community Living Center, a 151-resident VA-run long-term care facility on the WLA Campus (UCLA, 2015);
  - Veterans who reside on the WLA Campus in various VA housing. See Section 3.10.2.5.4,
     WLA Campus Housing, for additional information;
  - A small number of VA staff and their families who live on the WLA Campus in five single quarters buildings and two duplex quarters buildings; and
  - o Residents of the Westwood Transitional Living Village, located off the WLA Campus on the east side of the I-405 freeway, in a small parcel between the freeway and South Sepulveda Boulevard and north of Ohio Avenue. This is a 40-unit facility run by the Salvation Army that provides support services for homeless families for up to two years. It houses approximately 150 individuals and has a high percentage of children. Families of Veterans make up approximately 40 percent of the population (The Salvation Army, 2018).

Some of the tables in this section include statistics for Census Tract 7011, which come from the same U.S. Census Bureau source and are directly comparable to the state, GLAHS service area, county, and adjacent community statistics in those tables. Census Bureau statistics specific to the WLA Campus are not available. However, the narrative describes known relationships between the populations of the census tract and the WLA Campus.

The following subsections for population, income, labor force and employment, and housing address each topic for some or all of these geographic areas of analysis. It is neither necessary, nor possible given available data sources, <sup>15</sup> to address some topics at the level of the adjacent communities. For the applicable areas, each subsection addresses the general population, the Veteran population, and the WLA Campus. A final subsection focuses on the characteristics of Veterans who use services at the WLA Campus. Socioeconomic topics relevant to environmental justice are covered in Section 3.15, Environmental Justice.

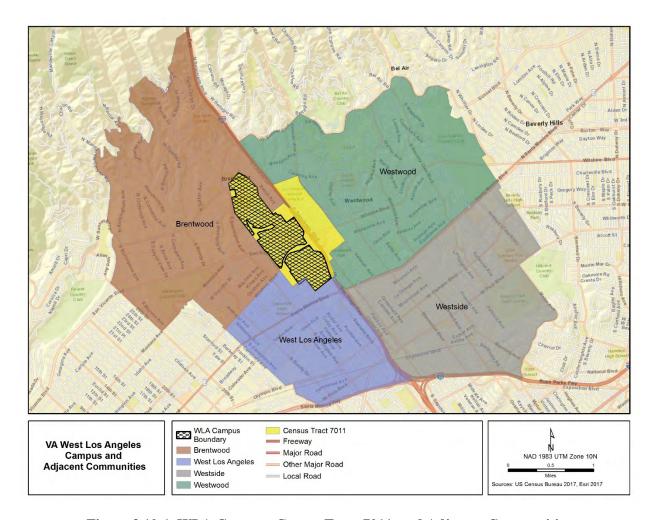


Figure 3.10-1. WLA Campus, Census Tract 7011, and Adjacent Communities

<sup>15</sup> Data sources are described briefly at the first use of each source. The data and information presented address the population residing within a geographic area unless otherwise noted.

Table 3.10-1. Historical and Projected Population of California and GLAHS Service Area

Area	1990	2000	2010	2016*	2020	2030	2050	AARC 2000 – 2016	AARC 2016 – 2030
California	29,828,238	34,000,880	37,333,583	39,354,432	40,719,999	44,019,846	49,158,401	0.9%	0.8%
Service Area:									
Kern County	547,998	664,378	841,887	888,994	929,787	1,067,631	1,350,705	1.8%	1.3%
Los Angeles County	8,860,302	9,543,982	9,837,011	10,229,245	10,451,759	10,885,337	11,274,596	0.4%	0.4%
San Luis Obispo County	217,787	247,726	269,013	278,917	286,416	302,323	309,424	0.7%	0.6%
Santa Barbara County	368,943	399,882	423,552	448,353	461,916	492,495	531,252	0.7%	0.7%
Ventura County	669,102	756,905	824,467	854,383	871,960	922,001	979,739	0.8%	0.5%
Service Area Total	10,664,132	11,612,873	12,195,930	12,699,892	13,001,838	13,669,787	14,445,716	0.6%	0.5%

Note: \*Most recent and currently available dataset.

AARC: Average Annual Rate of Change (compound growth rate)

Source: (California Department of Finance, 2017)

### **3.10.2.2 Population**

## 3.10.2.2.1 General Population

Table 3.10-1 shows the historical population of California and the GLAHS service area from 1990 to 2016 and the projected population to 2050, along with the average annual rate of change (AARC) (also known as the compound growth rate, and hereinafter referred to as growth rate) from 2000 to 2016 and 2016 to 2030. According to the California Department of Finance (DOF) Demographic Research Unit, the population of California increased at a 0.9 percent growth rate from 2000 to 2016 (34,000,880 to 39,354,432) and is projected to increase from 2016 to 2030 at a slightly slower growth rate of 0.8 percent (39,354,432 to 44,019,846). The 2016 total population within the GLAHS service area was 12,699,892 people with a projected increase to 13,669,787 people by 2030, representing a growth rate of 0.5 percent per year<sup>16</sup> (California Department of Finance, 2017).

Of the five GLAHS service area counties, Kern County is projected to experience the highest growth rate from 2016 to 2030 at 1.3 percent (growing from 888,994 to 1,350,705) and Los Angeles County will have the lowest growth rate at 0.4 percent (10,229,245 to 11,274,596). However, Los Angeles will experience the greatest absolute increase in population, growing by over one million people. All other counties had much smaller 2016 populations and will experience much smaller absolute increases in population to 2030. Historically, from 2000 to 2016, the population of Kern County had grown slightly faster at a growth rate of 1.8 percent, and Los Angeles County saw the same growth rate at 0.4 percent. From 2000 to 2016, San Luis Obispo County and Santa Barbara County both experienced a 0.7 percent growth rate (247,726 to 278,917, and 399,882 to 448,353, respectively). From 2016 to 2030, Santa Barbara County is projected to maintain a 0.7 percent growth rate (448,353 to 492,495) and San Luis Obispo County is projected to experience a slightly lower growth rate at 0.6 percent (278,917 to 302,323). The population for Ventura County increased from 2000 to 2016 at a growth rate of 0.8 percent (756,905 to 854,383) and is projected to increase at a slower growth rate of 0.5 percent from 2016 to 2030 (854,383 to 922,001) (California Department of Finance, 2017).

Table 3.10-2 shows the historical population for Census Tract 7011 and the four identified communities adjacent to the WLA Campus. It uses Census Bureau data as the California DOF does not provide historical or projected population data for these geographic areas. Table 3.10-2 data are from the 2000 and 2010 decennial censuses of the U.S. population and from the American Community Survey 2011-2015 estimates. The latter source, which was also used in several other tables and one figure in this socioeconomics section, is based on sample data for each year of the five-year period; thus, the estimates reflect average conditions from 2011-2015.

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<sup>&</sup>lt;sup>16</sup> While population tables in Section 3.10.2 provide projections beyond 2030, they only present growth rate figures through 2030. Projections for later years are indicative but are subject to greater uncertainty.

Area	2000	2010	2011–2015	AARC 2000 to 2011–2015
Census Tract 7011*	682	746	988	2.9%
Adjacent Communities:				
Brentwood	25,484	26,563	26,463	0.3%
West Los Angeles	32,399	30,763	34,515	0.5%
Westside	26,832	27,068	27,964	0.3%
Westwood	47,844	51,485	55,057	1.1%

Table 3.10-2. Historical Population of Census Tract 7011 and the Adjacent Communities

Notes: \*Includes residents of the WLA Campus.

Assumes 2013 as the average year for the period 2011-2015. AARC: Average Annual Rate of Change (compound growth rate)

Sources: (U.S. Census Bureau, 2017b; U.S. Census Bureau, 2017c; U.S. Census Bureau, 2017d)

The data for Census Tract 7011 in Table 3.10-2 include the resident population of the WLA Campus and the populations from CalVet and the Salvation Army's Westwood Transitional Living Village. Growth in Census Tract 7011's population from 2010 to 2011-2015 probably reflects the opening of CalVet, which was completed in September 2010 after the 2010 census was taken. The estimated population of Census Tract 7011 in the 2011-2015 period was 988 (U.S. Census Bureau, 2017d). It is likely that the population of Census Tract 7011 has continued to grow since 2011-2015 due to VA efforts to house more Veterans on the WLA Campus.

According to this Census Bureau data, the total population of all the adjacent communities increased from 2000 to 2010 and from 2010 to 2011-2015 except for Brentwood which had a slight decrease from 2010 to 2011-2015. From 2000 to 2011-2015, the Westwood community—the largest of the communities—experienced the highest growth rate among the adjacent communities at 1.1 percent (growing from 47,844 to 55,057). The West Los Angeles community is the second largest of the communities and had a population growth rate of 0.5 percent from 2000 (32,399) to 2011-2015 (34,515). The Brentwood and Westside communities are similar in size and experienced the same population growth rate of 0.3 percent. Westwood grew from 25,484 to 26,463 and Westside grew from 26,832 to 27,964 (U.S. Census Bureau, 2017b; U.S. Census Bureau, 2017d).

The adjacent communities to the WLA Campus are well-established with virtually all developable land already developed. Redevelopment projects that could increase population density are possible. The most likely future scenario is that each community will maintain a stable population or experience slow population growth.

## 3.10.2.2.2 Veteran Population

Table 3.10-3 provides projections of the Veteran population from 2016 to 2045 for California and the GLAHS service area. The projections were produced by VA's National Center for Veteran Analysis and Statistics based on 2015 estimates of the Veteran population and are the basis for VA's nationwide services and facilities planning. In 2016, the estimated Veteran population within the GLAHS service area was 417,183 Veterans. Through 2030, the Veteran population is projected to decrease throughout the GLAHS service area at an annual rate of -3.9 percent to 237,944 Veterans. Within the GLAHS service area, Los Angeles County is projected to experience the largest rate of decrease in Veteran

population (-4.3 percent) (U.S. Department of Veterans Affairs, 2016b; Los Angeles Homeless Services Authority, 2017 [Vet PIT Count]).

Table 3.10-3. Population of Veterans in California and the GLAHS Service Area

Area	2016	2020	2030	2045*	AARC 2016-2030
California	1,735,213	1,529,814	1,152,308	853,879	-2.9%
Service Area:					
Kern County	40,308	36,620	30,698	24,163	-1.9%
Los Angeles County	294,652	243,840	158,177	95,894	-4.3%
San Luis Obispo County	17,481	15,215	10,894	6,979	-1.8%
Santa Barbara County	22,547	19,071	13,527	9,763	-3.6%
Ventura County	42,194	36,006	24,648	16,228	-3.8%
Service Area Total	417,183	350,753	237,944	153,027	-3.9%

Notes: \*Source data provide Veteran population projections to 2045. AARC = Average Annual Rate of Change (compound growth rate)

Source: (U.S. Department of Veterans Affairs, 2016b)

The advanced age of many current Veterans likely accounts for the projected decreases in the Veteran population in coming years. As of the 2011-2015 period, 50.9 percent of Veterans in the GLAHS service area were 65 years of age or older, including 27.1 percent aged 74 or older (U.S. Census Bureau, 2018a).

Table 3.10-4 documents the gender of Veterans in California and the GLAHS service area during the 2011-2015 period. The percentages of male and female Veterans in the GLAHS service area (93.5 and 6.5 percent, respectively) were similar to the statewide percentages (92.7 and 7.3 percent, respectively). The gender of Veterans varied slightly across the GLAHS service area, as the male percentage varied from a low of 92.4 percent to a high of 94.1 percent (U.S. Census Bureau, 2018a).

Table 3.10-4. Gender of Veterans in California and the GLAHS Service Area, 2011-2015

Area	Total Veteran	Male Vet	terans	Female Veterans			
	Population	Total Male	Male (%)	Total Female	Female (%)		
California	1,777,410	1,647,922	92.7%	129,488	7.3%		
Service Area:							
Kern County	40,880	37,972	92.9%	2,908	7.1%		
Los Angeles County	304,828	285,078	93.5%	19,750	6.5%		
San Luis Obispo County	19,134	17,989	94.0%	1,145	6.0%		
Santa Barbara County	24,098	22,273	92.4%	1,825	7.6%		
Ventura County	44,586	41,962	94.1%	2,624	5.9%		
Service Area Total	433,526	405,274	93.5%	28,252	6.5%		

Source: (U.S. Census Bureau, 2018a)

#### 3.10.2.3 Income

### 3.10.2.3.1 Income of the General Population

Table 3.10-5 displays the estimated median household income (MHI) and percentage of households with specific sources of income in California, the GLAHS service area, and the four adjacent communities during the 2011-2015 period. Within the GLAHS service area, Ventura County had the highest household income at \$77,348, and Kern County the lowest at \$49,026. Kern County had a high proportion of households receiving Supplemental Nutrition Assistance Program (SNAP) benefits (16.5 percent), which reflects the low level of income. Los Angeles County had a significant proportion of households within the GLAHS service area (3,263,069 out of 4,038,027, or almost 81 percent), which skews the service area MHI (\$57,534) to reflect the Los Angeles County MHI (\$56,196) (U.S. Census Bureau, 2017e). The figures for Census Tract 7011 in Table 3.10-5 do not reflect most of the residents of the WLA Campus. The income statistics in Table 3.10-5 are for people who live in households. As defined by the Census Bureau:

A household includes all the people who occupy a housing unit (such as a house or apartment) as their usual place of residence. A household includes the related family members and all the unrelated people, if any, such as lodgers, foster children, wards, or employees who share the housing unit. A person living alone in a housing unit, or a group of unrelated people sharing a housing unit such as partners or roomers, is also counted as a household. The count of households excludes group quarters (U.S. Census Bureau, 2018b).

Persons living in VA staff housing on the WLA Campus are considered to live in households. This is a very small number of people and households. The Census Bureau classifies other residents of the WLA Campus as living in group quarters, which are defined as:

[a] place where people live or stay, in a group living arrangement, that is owned or managed by an entity or organization providing housing and/or services for the residents. This is not a typical household-type living arrangement. These services may include custodial or medical care as well as other types of assistance, and residency is commonly restricted to those receiving these services (U.S. Census Bureau, 2018b).

The income statistics in Table 3.10-5 for Census Tract 7011 mainly reflect households in the Salvation Army's Westwood Transitional Living Village, located outside the WLA Campus, which houses homeless families. The Census Bureau classifies this housing complex as a set of households, not as a group quarters. The Census Bureau does not report an MHI for Census Tract 7011; however, the MHI is probably very low given that the percentage of persons in poverty within Census Tract 7011 was 58.6 percent (see Table 3.15-3 in Section 3.15, Environmental Justice). Also, while the Census Bureau does not have income statistics for the WLA Campus, the income level for WLA Campus residents is considered to be low since Veteran housing on the WLA Campus primarily targets homeless Veterans.

Among the adjacent communities, the MHI of the Brentwood community was \$116,035 and of Westside was \$96,335, both of which are significantly higher than the MHI of California (\$61,618) or the other

geographic areas. Households in the adjacent communities, as a whole, relied less on social security income (21.4 percent) and much less on retirement income (8.7 percent), supplemental security income (2.5 percent), cash public assistance income (0.8 percent), and SNAP benefits (1.2 percent) than California and GLAHS service area households (U.S. Census Bureau, 2017e).

Figure 3.10-2 shows variations in MHI across the adjacent communities, based on 2011-2015 data (U.S. Census Bureau, 2017f). The legend shows five income groups. Gaps between some of the income groups indicate that no census tracts within the adjacent communities have MHIs within those gaps. The highest MHIs (over \$125,000) are in the census tracts north and northwest of the WLA Campus (mainly in Brentwood, plus one in Westwood). The next highest income group (\$90,000 to \$110,000) is distributed across several census tracts in Brentwood and in portions of Westwood and Westside at some distance from the WLA Campus. The three census tracts in the lowest MHI group (under \$30,000) are in Westwood east of Census Tract 7011. These census tracts have large numbers of housing units for UCLA students. Students have low incomes and thus pull down the MHI for these census tracts. The remaining census tracts in Westwood, Westside, and West Los Angeles fall into two middle income groups (\$50,000 to \$74,000, and \$75,000 to \$89,000).

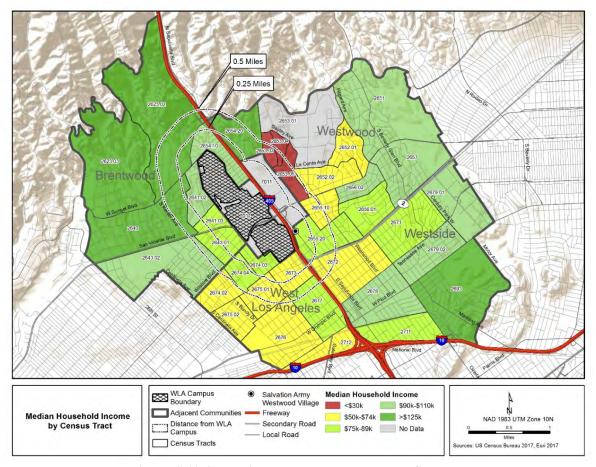


Figure 3.10-2. Median Household Income by Census Tract.

Table 3.10-5. Median Household Income and Sources of Income, 2011–2015

Area	Total	Median	F	Percentages	of Household	ls with Specific	Sources of Inco	ome
	Households	Household Income	With Earnings	With Social Security Income	With Retire- ment Income	With Supplem- ental Security Income	With Cash Public Assistance Income	With SNAP Benefits in the Past 12 Months
California	12,717,801	\$61,818	80.4%	26.3%	15.8%	6.2%	3.9%	9.2%
Service Area:								
Kern County	259,700	\$49,026	78.8%	25.8%	14.1%	7.9%	6.9%	16.5%
Los Angeles County	3,263,069	\$56,196	82.2%	23.7%	12.0%	6.9%	4.1%	8.8%
San Luis Obispo County	103,576	\$60,691	75.5%	32.9%	21.9%	4.7%	2.0%	5.9%
Santa Barbara County	142,713	\$63,985	79.9%	29.2%	16.6%	4.8%	2.5%	7.0%
Ventura County	268,969	\$77,348	82.0%	28.6%	19.4%	4.5%	2.5%	7.0%
Service Area Total	4,038,027	\$57,534	81.7%	24.6%	13.0%	6.7%	4.1%	9.0%
Census Tract 7011*	52	(-)**	94.2%	19.2%	13.5%	0.0%	28.8%	28.8%
Adjacent Communities:								
Brentwood	12,953	\$116,035	85.7%	23.9%	9.0%	2.0%	0.7%	0.6%
West Los Angeles	16,347	\$67,317	89.2%	14.0%	5.7%	2.8%	1.6%	2.3%
Westside	12,424	\$96,335	79.9%	26.4%	12.5%	2.6%	0.7%	1.2%
Westwood	19,109	\$71,674	77.8%	22.6%	8.5%	2.4%	0.3%	0.8%
Adjacent Communities Total	60,833	\$84,985	83.0%	21.4%	8.7%	2.5%	0.8%	1.2%

Notes: \*Does not include most residents of the WLA Campus.

\*\*Data unavailable

Source: (U.S. Census Bureau, 2017e)

## 3.10.2.3.1 Income of the Veteran Population

Table 3.10-6 shows the median income of male and female Veterans and non-Veterans in California and the GLAHS service area during the 2011-2015 period. In California and across the GLAHS service area, the median income of Veterans exceeded the median income of non-Veterans. Within the GLAHS service area, the difference ranged from \$14,448 in Los Angeles County (\$39,095 for all Veterans compared to \$25,647 for all non-Veterans) to \$22,024 in Santa Barbara County (\$46,708 for all Veterans compared to \$24,684 for all non-Veterans). In all cases, the median income of males was higher than the median income of females. The median income of Veterans in San Luis Obispo County, Santa Barbara County, and Ventura County exceeded the median income of Veterans in California. Female Veterans in Kern County had the lowest median income of Veterans in the GLAHS service area (\$28,895) (U.S. Census Bureau, 2018a).

Table 3.10-6. Median Income of Veterans and Non-Veterans in California and the GLAHS Service Area, 2011-2015

Area		Veteran		Non-Veteran			
	Male	Female	Total	Male	Female	Total	
California	\$42,203	\$34,045	\$41,682	\$31,676	\$22,333	\$26,524	
Service Area:							
Kern County	\$40,605	\$28,895	\$40,008	\$25,833	\$16,580	\$20,735	
Los Angeles County	\$39,628	\$32,126	\$39,095	\$28,071	\$21,334	\$24,647	
San Luis Obispo County	\$45,556	\$29,286	\$44,878	\$31,983	\$21,263	\$25,577	
Santa Barbara County	\$47,542	\$37,891	\$46,708	\$27,961	\$21,309	\$24,684	
Ventura County	\$49,899	\$40,922	\$49,249	\$35,133	\$23,844	\$28,699	
Service Area Total	\$41,481	\$32,868	\$40,904	\$28,453	\$21,210	\$24,687	

Notes: Data are for civilian population (does not include active duty military) 18 years and over with income.

Figures are in 2015 inflation-adjusted dollar

Source: (U.S. Census Bureau, 2018a)

#### 3.10.2.4 Labor Force and Employment

### 3.10.2.4.1 Employment in the General Population

The U.S. Bureau of Labor Statistics defines labor force as non-active duty military and non-institutionalized persons that are 16 years or older and employed, seeking employment, or unemployed and available to work (U.S. Bureau of Labor Statistics, 2018). Table 3.10-7 displays the total number of persons in the labor force and those who were unemployed, the unemployment rate for California and the GLAHS service area in 2010 and 2016, along with changes in these indicators between the two years. These data are not available for the adjacent communities to the WLA Campus.

Table 3.10-7. Labor Force and Unemployment, 2010 and 2016

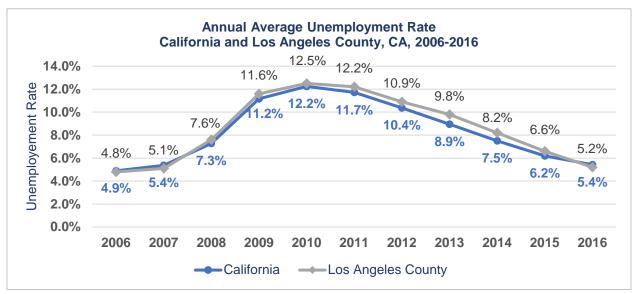
Area	2010			2016			Change, 2010–2016		
	Total Labor Force	Unem- ployed	Unem- ployment Rate	Total Labor Force	Unem- ployed	Unem- ployment Rate	Total Labor Force (Percent Change)	Unem- ployed (Percent Change)	Unem- ployment Rate (Percent Change)
California	18,336,283	2,244,333	12.24%	19,102,734	1,037,687	5.4%	4.2%	-53.8%	-6.8%
Service Area:									
Kern County	371,515	58,154	15.7%	389,091	40,169	10.3%	4.7%	-30.9%	-5.3%
Los Angeles County	4,917,375	615,101	12.5%	5,043,254	264,495	5.2%	2.6%	-57.0%	-7.3%
San Luis Obispo County	133,651	13,442	10.1%	140,365	5,982	4.3%	5.0%	-55.5%	-5.8%
Santa Barbara County	212,267	20,587	9.7%	216,625	10,846	5.0%	2.1%	-47.3%	-4.7%
Ventura County	430,010	46,586	10.8%	427,785	22,149	5.2%	-0.5%	-52.5%	-5.7%
Service Area Total	6,064,818	753,870	12.4%	6,217,120	343,641	5.5%	2.5%	-54.4%	-6.9%

Note: Figures are annual averages for each year.

Source: (U.S. Bureau of Labor Statistics, 2017)

Overall, California and the GLAHS service area (except for Ventura County) experienced labor force increases from 2010 to 2016. Ventura County was the only one of the five counties in the GLAHS service area to experience a labor force decrease during the same timeframe. Across most of the geographic areas, the number of unemployed persons decreased approximately 50 percent from 2010 to 2016. The exception was Kern County, which experienced a reduction of approximately 40 percent. The GLAHS service area saw a drop of 6.9 percentage points in the unemployment rate to 5.5 percent, which was similar to the state's drop of 6.8 percentage points to an overall 5.4 percent unemployment rate. The unemployment rate dropped to similar levels across the five counties in the GLAHS service area, except Kern County where the 2016 unemployment rate remained higher at 10.3 percent. Los Angeles County saw the largest drop in unemployment rate (7.3 percentage points). The improvements in the unemployment rate are consistent with recovery from the Great Recession<sup>17</sup> (U.S. Bureau of Labor Statistics, 2017).

Figure 3.10-3 shows the effect of the Great Recession (late 2000s) and subsequent recovery on the unemployment rate for Los Angeles County and the state from 2006 to 2016. Unemployment in Los Angeles County paralleled statewide unemployment but was somewhat higher in most of the period shown (U.S. Bureau of Labor Statistics, 2017).



Source: (U.S. Bureau of Labor Statistics, 2017)

Figure 3.10-3. Unemployment Rate, 2006-2016

The WLA Campus is situated in an urban environment within Los Angeles County, which has the densest population, housing, and labor force of the five GLAHS service area counties. In this portion of Los Angeles County, there are multiple employment centers, generally defined as concentrations of jobs due to the presence of large organizations or concentrations of employers. The WLA Campus itself is a major employment center due to the WLA Medical Center and other VA services (Section 3.10.2.4.3, WLA Campus Employment) and multiple employment centers exist within the adjacent communities. The UCLA campus, located in Westwood, is a major regional employment center, as is the Century City area

<sup>&</sup>lt;sup>17</sup> The Great Recession is generally considered to have lasted from December 2007 to June 2009, and its economic impacts to have lasted much longer (Federal Reserve Bank of Richmond, 2013).

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of Westside. Additional employment centers associated with office, retail, and industrial buildings and areas are found along or near several major corridors in the adjacent communities, particularly Santa Monica, South Sepulveda, Pico, Olympic, Wilshire, and San Vicente Boulevards.

## 3.10.2.4.2 Employment in the Veteran Population

Table 3.10-8 shows the unemployment rate of Veterans and non-Veterans in California and the GLAHS service area from 2011 to 2015. This dataset is from the U.S. Census Bureau and does not exactly match the unemployment rate data from the U.S. Bureau of Labor Statistics reported above because it is collected on a different basis. However, the data are consistent for Veterans and non-Veterans. The unemployment rate of Veterans in the state and in the GLAHS service area (9.6 percent for both) was somewhat lower than the unemployment rate of non-Veterans in the state (9.8 percent) and the GLAHS service area (9.9 percent). The highest unemployment rate of Veterans was in Los Angeles County (10.5 percent), which was the only county in the service area with an unemployment rate for Veterans higher than the statewide rate for Veterans (9.6 percent). The lowest unemployment rate for Veterans was in Santa Barbara County (6.6 percent). The unemployment rates for non-Veterans were lower than the rates for Veterans in Los Angeles County (9.9 percent) and San Luis Obispo County (6.4 percent) (U.S. Census Bureau, 2018a).

Table 3.10-8. Veteran and Non-Veteran Unemployment Rate in California and the GLAHS Service Area, 2011-2015

Area	Veteran	Non-Veteran
California	9.6%	9.8%
Service Area:		
Kern County	8.1%	12.8%
Los Angeles County	10.5%	9.9%
San Luis Obispo County	7.3%	6.4%
Santa Barbara County	6.6%	8.1%
Ventura County	8.0%	8.6%
Service Area Total	9.6%	9.9%

Note: Data are for the civilian population 18 to 64 years of age.

Source: (U.S. Census Bureau, 2018a)

### 3.10.2.4.3 WLA Campus Employment

As described in Section 1.5, WLA Campus Employees, as of May 2018, VA employed 5,001 individuals at the WLA Campus with 4,761 full-time staff and 240 part-time staff. Staff are comprised of professionals in the following functional areas: administrative, hospital, ambulatory, mental health, residential lodging, permanent supportive housing, community living centers, research facilities, facilities maintenance, and support and logistics. As of May 2018, the WLA Campus staff included 466 physicians, 1,166 nurses, and 443 psychologists and social workers. In March 2018, the WLA Campus had approximately 500 registered volunteers with identification badges and over 1,000 unregistered persons that volunteer on an occasional basis (Stewart, 2018). Further, GLAHS received a total of 164,958 volunteer hours throughout 2017 (U.S. Department of Veterans Affairs, 2017e).

## 3.10.2.5 Housing and Homelessness

## 3.10.2.5.1 Housing in the General Population

Table 3.10-9 displays housing units <sup>18</sup> and occupancy data for California and the GLAHS service area in 2010 and 2016, along with changes in the indicators between the two years. From 2010 to 2016, the total number of housing units increased across all geographic areas from 1.9 percent (5,224 housing units) in Ventura County to 3.7 percent (10,566 housing units) in Kern County. The percentage of occupied units increased for California, the GLAHS service area as whole, and for three of the five counties of the service area. While Ventura County and Santa Barbara County both experienced an increase in occupied units (2,187 occupied units and 1,607 occupied units, respectively), these counties experienced a drop in the percentage of occupied units (-1.0 percentage points and -0.9 percentage points, respectively). San Luis Obispo County was the only geographic area to encounter an increase in the percentage of owner-occupied units (2.5 percentage points or 6,675 owner-occupied units). Santa Barbara County and Los Angeles County experienced the largest declines in the percentage of owner-occupied units (-2.4 and -2.3 percentage points, or 2,512 and 27,927 fewer owner-occupied units, respectively) (U.S. Census Bureau, 2017g). Decreases in the owner-occupancy rate may reflect mortgage difficulties for some homeowners resulting from the Great Recession (late 2000s) and its aftermath, changes in the affordability of housing, and other factors.

Table 3.10-10 presents housing cost indicators for 2010 and 2016. It shows that median housing value (i.e., the value of owner-occupied units) increased considerably in this period rising 28.7 percent (\$106,600) in California and 24.5 percent (\$101,081) across the GLAHS service area. The largest increases were in San Luis Obispo and Los Angeles counties (28.7 percent [\$122,000] and 25.2 percent [\$108,400], respectively). These increases are of a magnitude large enough to create affordability issues for some homeowners or would-be homeowners. Median gross rents also increased across all geographic areas, but by a lower amount totaling approximately half as much as median housing values increased (U.S. Census Bureau, 2017g).

In addition to affordability issues, the Los Angeles area has limited housing availability. In 2017, the rental vacancy rate for the Los Angeles-Long Beach-Anaheim Metropolitan Statistical Area (MSA) was 4.1 percent. This was the 7th lowest of the 75 MSAs in the United States and much lower than the rate of 7.0 percent across all MSAs (U.S. Census Bureau, 2018c). Low vacancy rates make it difficult for families and individuals of low income to secure affordable housing.

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<sup>&</sup>lt;sup>18</sup> A housing unit is defined by the Census Bureau as a house, apartment, mobile home or trailer, group of rooms, or a single room intended for occupancy as separate living quarters (U.S. Census Bureau, 2018b).

Table 3.10-9. Housing Units and Housing Occupancy, 2010 and 2016

Area	2010			2016			Change, 2010–2016		
	Total	Occupied	Owner-	Total	Occupied	Owner-	Total	Occupied	Owner-
	Housing	Units (%)	Occupied	Housing	Units (%)	Occupied	Housing	Units	Occupied
	Units		Units* (%)	Units		Units* (%)	Units	(Percentage	Units
							(Percent	Point Change)	(i orosinago
California	10.000.070	22.70/	oo/	44.004.075	22 424	<b>50.0</b> 0/	Change)		Point Change)
California	13,682,976	90.7%	55.6%	14,061,375	92.1%	53.6%	2.8%	1.4%	-2.0%
Service Area:									
Kern County	284,674	88.6%	59.0%	295,240	91.6%	57.0%	3.7%	3.0%	-2.0%
Los Angeles County	3,444,870	93.0%	46.9%	3,520,811	93.9%	44.6%	2.2%	0.9%	-2.3%
San Luis Obispo County	117,353	84.9%	60.1%	120,866	88.0%	62.6%	3.0%	3.1%	2.5%
Santa Barbara County	152,819	92.2%	53.4%	155,962	91.3%	51.0%	2.1%	-0.9%	-2.4%
Ventura County	281,681	94.4%	64.0%	286,905	93.4%	62.1%	1.9%	-1.0%	-1.9%
Service Area Total	4,281,397	92.5%	49.4%	4,379,784	93.4%	47.2%	2.3%	0.9%	-2.1%

Note: \*Percentage of occupied housing units

Source: (U.S. Census Bureau, 2017g)

Table 3.10-10. Housing Costs, 2010 and 2016

Area	Area 2010 2016		Change, 2010–2016						
	Median Housing Value*	Median Gross Rent	Median Housing Value*	Median Gross Rent	Median Housing Value (Percent Change)	Median Gross Rent (Percent Change)			
California	\$370,900	\$1,163	\$477,500	\$1,375	28.7%	15.4%			
Service Area:	Service Area:								
Kern County	\$164,200	\$821	\$204,200	\$927	24.4%	11.4%			
Los Angeles County	\$429,500	\$1,147	\$537,900	\$1,330	25.2%	13.8%			
San Luis Obispo County	\$425,200	\$1,137	\$547,200	\$1,313	28.7%	13.4%			
Santa Barbara County	\$446,800	\$1,267	\$531,200	\$1,542	18.9%	17.8%			
Ventura County	\$458,200	\$1,381	\$561,400	\$1,647	22.5%	16.2%			
Service Area Total	\$412,324	\$1,145	\$513,405	\$1,330	24.5%	13.9%			

Note: \*Value of Owner-Occupied Units

Source: (U.S. Census Bureau, 2017g)

## 3.10.2.5.2 Homelessness in the General Population

Due to the transient nature of people experiencing homelessness, quantifying the exact number of homeless people is difficult.<sup>19</sup> Periodically, the Los Angeles Homeless Services Authority (LAHSA) conducts an intensive Point In Time (PIT) count of people experiencing homelessness in Los Angeles County.<sup>20</sup> This effort, conducted annually during the last 10 days of January, attempts to count homeless persons at all known locations frequented by the homeless, including shelters and "street" locations such as metro lines, parks, and riverbeds. Table 3.10-11 displays the results of the counts conducted from 2016 through 2018. From 2016 to 2017, the homeless population in Los Angeles County from the PIT count period increased by 17 percent from 46,874 people to 55,048 people (Los Angeles Homeless Services Authority, 2016) (Los Angeles Homeless Services Authority, 2017). From 2017 to 2018, the homeless population in Los Angeles County decreased by 3 percent from 55,048 to 53,195 people (Los Angeles Homeless Services Authority, 2018). Because these numbers represent a snapshot in time, the number of people who experience homelessness across the course of a year is probably considerably higher.

Table 3.10-11. Homeless Population in Los Angeles County, 2016-2018

Year	Unsheltered	Sheltered	Total Homeless Population
2016	34,701	12,173	46,874
2017	40,082	14,966	55,048
2018	39,826	13,369	53,195

Sources: (Los Angeles Homeless Services Authority, 2016), (Los Angeles Homeless Services Authority, 2017), (Los Angeles Homeless Services Authority, 2018)

A wide spectrum of causes and factors contribute to homelessness. LAHSA and the American Civil Liberties Union (ACLU) of Southern California have identified several, including:

- Increased cost of living
- Changes to social policies
- Availability of affordable housing
- Low rental vacancy rate
- Median rent increasing faster than median household income
- Changes to social welfare benefits
- Lack of affordable mental health services
- Poverty
- Domestic violence (Los Angeles Homeless Services Authority, 2017) (ACLU of Southern California, 2016).

<sup>20</sup> Not including Glendale, Long Beach, and Pasadena.

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The Census Bureau's conventional methods of enumerating housing units and group quarters are not well-suited to counting homeless populations (U.S. Census Bureau, 2018e). In 2010, the Census Bureau conducted a three-day Service-Based Enumeration at emergency and transitional shelters and targeted non-sheltered outdoor locations to give people experiencing homelessness an opportunity to be included in the decennial census. While the Census Bureau counted people experiencing homelessness, they did not produce or publish a total count of the homeless population. The Census Bureau stresses that this decennial census enumeration did not represent the entire homeless population and only was a count of individuals at shelters and outdoor locations over a three-day period (U.S. Census Bureau, 2012). The LAHSA PIT count is assumed to be a more current and more accurate enumeration of homeless persons.

## 3.10.2.5.3 Homelessness in the Veteran Population

As part of the PIT counts, LAHSA also attempts to identify homeless Veterans. Table 3.10-12 shows that the population of homeless Veterans in Los Angeles County from 2016 to 2017 increased by 54 percent from 3,071 to 4,742 homeless Veterans (Los Angeles Homeless Services Authority, 2017). In 2017 to 2018, the population of homeless Veterans decreased by 19 percent from 4,742 in 2017 to 3,819 in 2018 (Los Angeles Homeless Services Authority, 2018).

Year Unsheltered Sheltered **Total Homeless Population of Veterans** 2016 1,453 3,071 1,618 1,266 4,742 2017 3,476 1,041 3,819 2018 2,778

Table 3.10-12. Population of Homeless Veterans in Los Angeles County, 2016-2018

Source: (Los Angeles Homeless Services Authority, 2016), (Los Angeles Homeless Services Authority, 2017), (Los Angeles Homeless Services Authority, 2018)

Homeless Veterans are a special focus of current WLA programs and of the Draft Master Plan. Multiple services for homeless Veterans are coordinated through the Welcome Center, as described in Section 1.4, Patients Served on West Los Angeles Campus. According to annual records, the Welcome Center had 8,943 visits from 5,126 unique Veterans in 2017. Of these 5,126 unique Veterans, 1,766 Veterans were housed in a GPD shelter either on the WLA Campus or a community shelter off campus (U.S. Department of Veterans Affairs, 2017a). The following sections review GLAHS programs focused on housing that are oriented toward homeless Veterans.

# 3.10.2.5.4 WLA Campus Housing

The northern portion of the WLA Campus provides Veterans with a variety of housing services, many of which are targeted to homeless Veterans. Currently, the WLA Campus has 544 beds utilized for residential rehabilitation treatment and homeless Veteran programs, as described in Section 1.4, Patients Served on West Los Angeles Campus. In the near future, VA plants to increase WLA Campus housing for homeless Veterans through three EUL projects (Building 205 at approximately 68 units, Building 207 at approximately 51 units, and Building 208 at approximately 54 units). These projects are not part of the Proposed Action but are considered in Chapter 5, Cumulative Impacts.

Additional housing provided by VA on the WLA Campus includes:

- The Community Living Center (Buildings 213 and 215) is a VA-run long-term care facility with capacity for 151 patients (UCLA, 2015).
- Staff housing is in the southwestern portion of the WLA Campus and consists of seven single quarters buildings and two duplex quarters buildings (VA GLAHS CERS Staff, 2018).

#### 3.10.2.5.5 Off-Campus Veteran Housing

In addition to Veteran housing services provided on the WLA Campus, VA provides Veterans with off-campus transitional and permanent housing assistance. These services are provided by the VA GPD Program, Health Care for Homeless Veteran Contracts, Community of Friends, U.S. VETS, U.S.

Department of Housing and Urban Development (HUD), and other organizations (U.S. Department of Veterans Affairs, 2018d).

- The VA GPD Program provides resources to nonprofit organizations, state and local government agencies, and tribal governments to develop and sustain programs and services to help homeless Veterans. These services help Veterans find stable housing, gain skills to increase their income, and gain independence. The maximum stay in this type of housing is 24 months (U.S. Department of Veterans Affairs, 2018e).
- The Health Care for Homeless Veterans program offers residential treatment, outreach, and case management services to homeless Veterans. The program operates at VA medical centers where clinically trained staff identify Veterans who need safe and stable housing arrangements (U.S. Department of Veterans Affairs, 2018f)
- Community of Friends provides permanent housing and a variety of support services such as case
  management, life skills, substance abuse recovery, transportation assistance, and employment
  services. They adapted two underused buildings at the VA Sepulveda Ambulatory Care Center
  for studio apartments for homeless, disabled Veterans. The two buildings are located
  approximately 15 miles north of the WLA Campus (A Community of Friends, 2018).
- U.S. VETS Westside Supporting Housing provides permanent housing, family services, counseling, and job assistance to Veterans experiencing homelessness. The Westside housing properties are located approximately 10 miles south of the WLA Campus (U.S. VETS, 2018).
- HUD VA Supportive Housing (HUD-VASH) is a collaborative effort between HUD and VA to
  assist Veterans and their families with finding and sustaining permanent housing through a
  combination of HUD housing vouchers and VA services such as health care, mental health
  treatment, and substance use counseling. VA case managers assist homeless Veterans eligible for
  VA health care services with securing housing. This program enrolls the highest percentage of
  Veterans who have experienced long-term or chronic homelessness (U.S. Department of Veterans
  Affairs, 2018f).
- Non-VASH permanent housing are additional programs that are provided by multiple
  organizations. These programs provide housing, mental health treatment, health care,
  employment services, and other services to assist people experiencing homelessness, including
  Veterans and their families.

Table 3.10-13 shows the number of beds VA makes available off campus to homeless Veterans through the programs described above.

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Table 3.10-13. VA-Supported Housing Available off the WLA Campus

Program Name	Beds
Transitional Housing	
VA GPD Programs	905
VA Health Care for Homeless Veteran Contracts	225
Permanent Housing	
Community of Friends (VA Sepulveda campus: includes 50 HUD-VASH project-based vouchers managed through the Housing Authority of the City of Los Angeles)	147
U.S. VETS Westside Supported Housing (321 units) and Westside II (98 non-VASH units)	419
Non-VASH Permanent housing units/vouchers (including New Directions, People Assisting the Homeless (PATH), Skid Row Housing Trust, and Volunteers of America projects)	554
CalVet Veterans Home of California–West Los Angeles	396
HUD-VASH (vouchers for Veterans living in their own apartments)*	6,376
Total Off-Campus Beds	9,022

Note: \*To avoid double-counting, this total does not include the 50 project-based vouchers at the VA Sepulveda campus included under Community of Friends.

Source: (U.S. Department of Veterans Affairs, 2018d)

# 3.10.2.6 WLA Campus Veteran Patient Population

The WLA Medical Center provided care for 80,195 patients during FY 2016. Patient statistics included the following demographic data points (U.S. Department of Veterans Affairs, 2017a):

- By age, 45 percent were age 65 and older and 17.1 percent were age 75 or older.<sup>21</sup>
- Thirteen percent of patients served in Operation Enduring Freedom in Afghanistan and/or Operation Iraqi Freedom, 29 percent served in the Persian Gulf War, 38 percent served in the Vietnam War, 6 percent served in the Korean War, and 3 percent served in World War II.
- By gender, 90 percent of the patients were male and 10 percent were female.
- Marital statistics indicated 38 percent of patients were married, 27 percent were never married, 26 percent were divorced, and small percentages were separated, widowed, or their marital status was unknown.
- Forty-four percent of patients had an income under \$30,000, 20 percent had an income of \$30,000 or higher, and for 35 percent, no income information was available.

With respect to medical conditions, some of the conditions of patients seen at the WLA Medical Center in FY 2016 included (U.S. Department of Veterans Affairs, 2017a):<sup>22</sup>

• Twenty-two percent of patients (17,747 unique patients) required assistance for mental, behavioral, and/or neurodevelopmental disorders. Of those, approximately 8 percent (6,102 unique patients) required assistance for post-traumatic stress disorder (PTSD).

<sup>&</sup>lt;sup>21</sup> Table 1.4-1 provides a detailed breakdown by gender and age.

<sup>&</sup>lt;sup>22</sup> Patients may be categorized with multiple conditions among these and other conditions.

- Nineteen percent of patients (14,899 unique patients) were treated for diseases of the nervous system.
- Eleven percent of patients (9,268 unique patients) were treated for diseases of the respiratory system.
- Twenty-seven percent of patients (21,527 unique patients) were treated for diseases of the musculoskeletal system and connective tissue. A portion of these patients would have had mobility limitations because of these conditions.

Medical and other programs at the WLA Campus support many disabled Veterans. Usually, disability rates are high among the Veteran population. Within the GLAHS service area, the Census Bureau estimates that 27.2 of Veterans in the 2011-2015 period had some type of disability, compared to 11.4 percent of non-Veterans (U.S. Census Bureau, 2018a).

With respect to VA patients who are homeless, the following demographics of patients seen in homeless programs were collected across the GLAHS; separate data for the WLA Campus were not available.

- By gender, 92.1 percent were male, 7.7 percent were female, and 0.1 percent were transgender.
- Race statistics indicated that 46.7 percent were Black or African American, 40.1 percent were White, 8.1 were an unknown race, 2.4 percent were American Indian or Alaska Native, 1.6 percent were Asian, and 1.1 percent were Native Hawaiian or Other Pacific Islander.
- By age, 23.5 percent were age 40 or younger, 64.3 percent were age 41 to 65, 11.4 percent were age 66 to 85, and 0.8 percent were older than 85.
- Nine percent of patients served in Operation Enduring Freedom and/or Operation Iraqi Freedom.
- Marital statistics indicated that 8.5 percent were married or in a committed relationship (U.S. Department of Veterans Affairs, 2017e).

Some of the mental health conditions and substance abuse conditions in patients seen in homeless programs include:

- Alcohol addiction (25.5 percent)
- Drug addiction (24.7 percent)
- Drug and alcohol addiction (14.2 percent)

- Mental disorder (47.1 percent)
- Dual mental health condition and drug or alcohol addiction (24.0 percent) (U.S. Department of Veterans Affairs, 2017e)

The Nosos program is used by VA to quantify risk scores for VA patients. The Nosos score is calculated by combining the patient's diagnosis, age, and gender with other factors such as pharmacy records and VA priority status. The Nosos score portrays the complexity and expected treatment cost of the Veteran patient population. Specifically, the Nosos scores are centered around 1, which means the Veteran is expected to have costs that are the national average for VA patients. As an example, if a patient has a

Nosos score of 2.5, then a patient has an expected cost that is 2.5 times higher than the average VA patient (U.S. Department of Veterans Affairs, 2018g).

The following Nosos scores show the relative complexity of patients in several GLAHS programs that assist homeless Veterans:

- All veterans receiving services from GLAHS: Nosos score average of 1.05 (Marston, 2018).
- Veteran population receiving support from the GLAHS GPD Program: Nosos score average of 2.01 (U.S. Department of Veterans Affairs, 2017e).
- Veteran population receiving GLAHS HUD-VASH assistance: Nosos score average of 2.09 (U.S. Department of Veterans Affairs, 2017e).
- Veteran population receiving services from GLAHS H-PACT assistance: Nosos score average of 2.35 (Marston, 2018).

## 3.11 Community Services

This section describes community services such as law enforcement, fire protection, parks/recreational resources, and schools within the existing WLA Campus and the immediate vicinity.

## 3.11.1 Regulatory and Policy Framework

Per the Supremacy Clause of the U.S. Constitution, no state or local requirements related to community services apply to VA as a federal entity. VA acts as its own building and fire code protection official and "authority having jurisdiction." As such, VA reviews fire code requirements during the design and construction phases of each project. All relevant fire protection codes can be found in VA's *Fire Protection Design Manual 7th Edition*. VA may include dedicated fire response services in project plans when required to support VA medical facilities operating 24 hours a day in communities without full-time, 24-hour fire response staff. VA Handbook 0730, *Security and Law Enforcement*, requires the establishment of a support agreement with local law enforcement agencies. A police and security unit is staffed and operates 24 hours a day at VA facilities to provide physical security and law enforcement for the protection of persons and VA property.

#### 3.11.2 Current Conditions

This section describes existing conditions of community services on, or in the immediate vicinity of, the WLA Campus. Figure 3.11-1 identifies the locations of existing community services on and near the WLA Campus, and Table 3.11-1 further details the types of community services available.

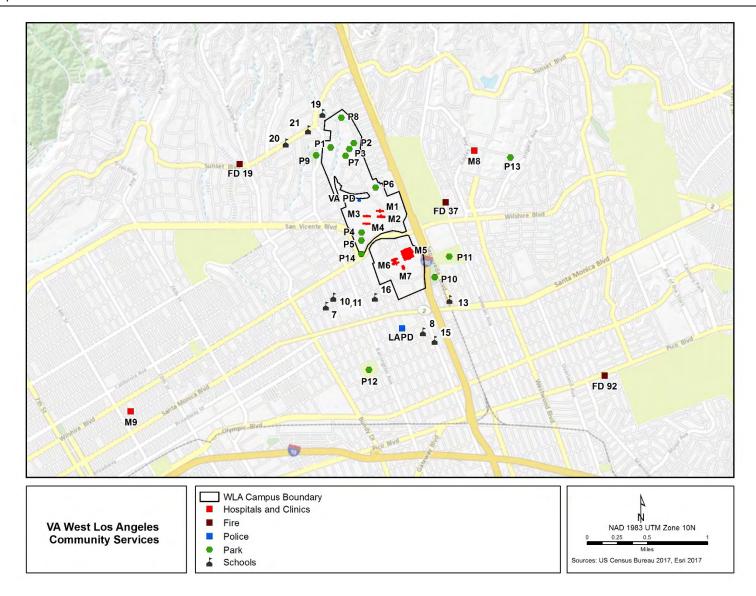


Figure 3.11-1. Existing Community Services Near WLA Campus

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Table 3.11-1. Existing Community Services at or Near WLA Campus Identified in Figure 3.11-1

Label	Schools				
7	Brockton Avenue Elementary				
8	Nora Sterry Elementary				
10	University Senior High				
11	University Senior High Math/Art/Science/Technology Magnet				
13	Fusion Academy				
15	New Horizon School Westside				
16	Saint Sebastian School				
19	Brentwood School				
20	St. Martin of Tours				
21	The Archer School for Girls				
Parks					
P1	Veterans Barrington Park				
P2	Heroes Golf Course				
P3	Japanese Garden				
P4	Women Veterans Rose Garden				
P5	Los Angeles National Veterans Park				
P6	Jackie Robinson Stadium				
P7	MacArthur Field				
P8	Brentwood School Athletic Facilities				
P9	Barrington Recreation Center				
P10	Bad News Bears Field				
P11	Westwood Recreation Center				
P12	Stoner Recreation Center				
P13	UCLA Mildred E. Mathias Botanical Garden				
P14	Veterans Park and Gateway Plaza				
Hospital 8	& Clinics				
M1	B213 CLC				
M2	B215 CLC				
M3	B214 Domiciliary				
M4	B217 Domiciliary				
M5	B500 Main Hospital				
M6	B304 & B507				
M7	B345 Radiation Therapy				
M8	Ronald Reagan UCLA Medical Center				
M9	UCLA Medical Center, Santa Monica, Nerthercutt E				
Support S	Support Services				
VA PD	VA Police Department				
LAPD	Los Angeles Police Department				
FD 37	Los Angeles Fire Department Station 37				
FD 19	Los Angeles Fire Department Station 19				
FD 92	Los Angeles Fire Department Station 92				

<sup>\*</sup> Label identifier corresponds with location depicted in Figure 3.11-1.

## 3.11.2.1 Hospital and Clinics

The WLA Medical Center, consisting of the main hospital (Building 500) and several medical clinics, treats Veterans predominantly from the GLAHS service area through primary care, urgent care, pharmacy services, outpatient surgery, inpatient care, dialysis, x-ray and mobile imaging, specialty care, laboratory services, and mental health services for post-traumatic stress, substance abuse, and other conditions. As described in Section 1.5, staffing at the WLA Medical Center includes 466 physicians, 1,116 nurses, and 258 physician assistants and nurse practitioners, as well as ancillary medical, housekeeping, administrative, police/security, engineering, and facilities management professionals (U.S. Department of Veterans Affairs, 2018a). The WLA Medical Center operates 24 hours a day, seven days a week.

The WLA Medical Center is a Veteran-only health care provider; therefore, it does not provide any medical care to the surrounding communities nor does it act as a primary trauma center. Nearby hospitals with trauma/emergency centers are the Ronald Reagan UCLA Medical Center located at 757 Westwood Plaza (2.5 miles); UCLA Medical Center, Santa Monica, Nethercutt Emergency Center located at 1255 15th Street in Santa Monica (2.9 miles); and Southern California Hospital Emergency Department located at 3828 Delmas Terrace (5.8 miles).

## 3.11.2.2 Fire/Rescue and Emergency Medical Services

The Los Angeles Fire Department (LAFD) provides fire suppression services and emergency medical services (EMS) throughout Los Angeles. The LAFD operates out of 106 fire stations divided into four bureaus: Central, South, Valley, and West. The LAFD operates 94 engines, 93 paramedic ambulances, 42 trucks/light forces, 41 basic life support ambulances, 28 assessment trucks/light forces, 15 brush patrols, six airport units, six helicopters, five dozers/loaders, five fire boats, four hazardous materials squads, four swift water rescue teams, four foam tenders, and a heavy rescue. Emergency response operations provided by the LAFD include fire suppression, tactical rescues, emergency medical care, fire prevention, arson investigations, responses to natural disasters, responses to mass-casualty and hazardous-materials incidents, and fire and EMS dispatch supervision. The LAFD has a current staff of 3,216 uniformed members and 379 civilians. In 2017, LAFD responded to more than 500,000 incidents, of which roughly 83 percent were emergencies (Los Angeles Fire Department, 2018a).

There are no fire departments on the WLA Campus. The WLA Campus is serviced by the West Bureau of the LAFD. The closest station to the WLA Campus, West Bureau's Station 37, is within one mile and is located to the east at 1090 Veteran Avenue. The LAFD, when needed, also provides emergency transport of patients to the WLA Campus. If additional fire/rescue and EMS are needed, Stations 19, 59, and 92 are all located within three miles of the WLA Campus. Table 3.11-2 shows the 2018 general response times for Station 37.

**Table 3.11-2. Response Times for Station 37 (January – July 2018)** 

Type of Incident	Response Time (min:sec)
Structure Fire	5 minutes 16 seconds
Critical Advanced Life Support	5 minutes 49 seconds
EMS	6 minutes 41 seconds
Non-EMS	6 minutes 15 seconds

Source: (Los Angeles Fire Department, 2018b)

The WLA Campus is at risk for wildfire emergencies, especially with the large number of ignitable trees and dry overgrowth. Dry eucalyptus trees on both the western and eastern borders of WLA Campus are extremely ignitable under fire hazard conditions. The WLA Campus Emergency Operations Plan (EOP) describes evacuation procedures as well as arrangements with local emergency responders. The WLA Campus also collaborates with local emergency management agencies in cases of large fires or other disasters in the greater Los Angeles area, serving as an operational command center and equipment staging area.

#### 3.11.2.3 Law Enforcement Services

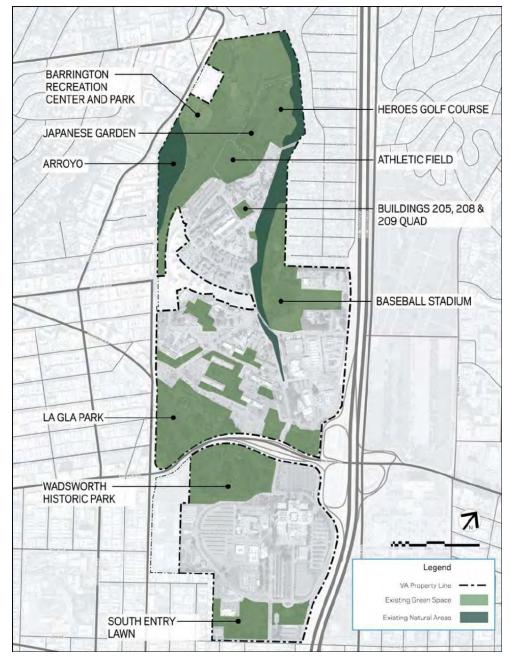
VA maintains its own police and security unit on the WLA Campus to provide law enforcement services for the safety and wellbeing of patients, staff, and visitors. The VA Police Department (VAPD) is headquartered in Building 236 and currently employs 78 full-time employees. VAPD operates 32 vehicles, including a bus, K-9 units, a Special Ops truck, patrol vehicles, support services vehicles, and Criminal Investigation Division vans (Leas, 2017). VAPD duties include responding to suspicious or criminal activity, vehicle accidents, and personal property losses on the WLA Campus. Police officers provide 24-hour patrols of the WLA Campus facilities and parking lots.

Although the WLA Campus is federal property, the Los Angeles Police Department (LAPD) may provide backup support in the event of an emergency. The LAPD WLA Community Police Station is located at 1663 Butler Avenue, one mile south of the campus. The WLA Community Police Station serves a residential population of over 220,000. Throughout the workday, this population swells to approximately a half million. The station covers over 65 square miles and 748 street miles of service area. In comparison to the other 17 LAPD community police stations, the WLA Community Police Station covers the largest number of square miles (Los Angeles Police Department, n.d.).

#### 3.11.2.4 Parks and Recreation

The WLA Campus contains multiple open areas, parks, gardens, and recreational facilities to provide relaxation opportunities, restorative areas, and natural retreats for Veterans and visitors (Figure 3.11-2). Most of these parks and recreational facilities are located on the North Campus and include:

• The Los Angeles National Veterans Park is located on 16 acres on the southwestern border of the North Campus (Figure 3.11-2). Salient features of this park include the Veterans Parkway and Gateway Plaza (Figure 3.11-3) and the historic Women Veterans Rose Garden (Figure 3.11-4). Diverse programming is offered at the park, including yoga, tai chi, and Artists for Trauma therapy classes. The park offers large open areas with tree plantings of more than 600 Jacaranda, Palm, Pepper Tree, and Camphor trees (Veterans Park Conservancy, 2018).



Source: (U.S. Department of Veterans Affairs, 2016a)

Figure 3.11-2. Open Space, Parks and Recreational Areas in the WLA Campus





Figure 3.11-3. Veterans Parkway Entrance Gates

Figure 3.11-4. Women Veterans Rose Garden

• Located on the northeastern portion of the North Campus, Heroes Golf Course is a non-profit 9-hole, par-3 golf course and is open to Veterans and the public year-round with nighttime golfing available (Figure 3.11-5). Founded in 2008, Heroes Golf Course supports VA's recreational and rehabilitation programs by providing physical and psychological therapy to boost veterans suffering from post-traumatic symptoms and other medical conditions (Westwood Patch, 2013).



Figure 3.11-5. Heroes Golf Course

- Veterans Barrington Park, operated by the City of Los Angeles, is located on the northwest border of campus. The park has 12 acres of mixed uses, including a dog park, baseball diamonds, and athletic fields.
- The Japanese Garden is located on approximately two acres immediately south of the Heroes Golf Course. The landscape is densely planted with mature trees and shrubs and features a series of interconnected, concrete lined pools. Two painted wood bridges cross the pools, and winding, unpaved paths provide circulation through the garden (Figure 3.11-6).



Figure 3.11-6. Japanese Garden

• MacArthur Field is located on the northwest quadrant of the campus and has approximately four acres of soccer and baseball fields (Figure 3.11-7).



Figure 3.11-7. MacArthur Field Soccer Field

• The Jackie Robinson Stadium is leased by UCLA for use as the Bruins baseball field. The field has a seating capacity for 1,250 spectators and is located on the eastern side of the North Campus. UCLA routinely holds Veterans appreciation baseball games where a selected Veteran will throw

- out the opening games ceremonial first pitch, and Veterans receive free admission to all UCLA Bruins home baseball games (UCLA Bruins, 2018).
- The Brentwood School leases 20 acres of land from VA on the northernmost campus boundary, bordering the Heroes Golf Course to the south. On this VA acreage, the school has constructed an athletic complex that includes a swimming pool, track field, tennis courts, and baseball diamonds (Figure 3.11-8).



Figure 3.11-8. Brentwood School Athletic Track

In the South Campus, Wadsworth Historic Park consists of wide expanses of lawn with mature trees, including a grove of approximately 50 Canary Island palm trees that form part of the historic landscape laid out in the 1930s (Row 10 Historic Preservation Solutions, LLC, 2018b).

Table 3.11-3 lists several public parks and recreational facilities located within one mile of the WLA Campus.

Table 3.11-3. Parks and Recreational Facilities within One Mile of the	WLA	Campus
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Facility	Address	Distance from Campus	Operator
Barrington Recreation Center	333 South Barrington Avenue	<0.25 miles	City of Los Angeles
Bad News Bears Field	1411 South Sepulveda Boulevard	<0.25 miles	West Los Angeles Little League
Westwood Recreation Center	1350 South Sepulveda Boulevard	<0.5 miles	City of Los Angeles
Stoner Recreation Center	1835 Stoner Avenue	<0.75 miles	City of Los Angeles
UCLA Mildred E. Mathias Botanical Garden	707 Tiverton Drive	<1 mile	UCLA

#### 3.11.2.5 Schools

The Los Angeles Unified School District (LAUSD) is the second largest in the nation and enrolls more than 640,000 students in kindergarten through 12<sup>th</sup> grade at over 900 schools and 187 public charter schools. The boundaries spread over 720 square miles and include the mega-city of Los Angeles as well as all or parts of 31 smaller municipalities plus several unincorporated sections of Southern California (Los Angeles Unified School District, n.d.).

The University Senior High School and University Senior High Magnet are public schools within 0.25 miles of the WLA Campus offering grades 9 through 12. In addition, there are four private schools within 0.25 mile of the WLA Campus. Brentwood School is a private middle and high school with an enrollment of approximately 1,020 students and 125 full-time teachers, and as described in Section 3.11.2.4, Parks and Recreation, the school has athletic facilities on WLA Campus property (Brentwood School, 2018). The Fusion Academy is a private school offering grades 6 through 12. The Saint Sebastian School is a private school offering grades kindergarten through 8. The Archer School for Girls is a private girls school offering grades 6 through 12 (California Department of Education, 2017a).

There are four schools more than 0.25 mile and less than 0.5 mile of the WLA Campus. The Brockton Avenue Elementary and Nora Sterry Elementary are public schools offering grades kindergarten through 5. The New Horizon School Westside is a private school offering grades kindergarten through 5. The St. Martin of Tours school is a private school offering grades kindergarten through 8 (California Department of Education, 2017a; California Department of Education, 2017b).

All other schools in the adjacent communities are located more than 0.5 miles from the WLA Campus. Figure 3.11-1 identifies the various locations of schools on and near the WLA Campus, and Table 3.11-1 lists each of the school names.

#### 3.12 Solid Waste and Hazardous Materials

This section describes the regulatory and policy framework and the existing conditions for solid waste and hazardous materials at the WLA Campus.

Solid waste includes waste such as garbage or refuse; sludge from a wastewater treatment plant, water supply treatment plant, or air pollution control facility; and other discarded materials from industrial, commercial, mining, and agricultural operations. Solid waste from community activities may include excess food, containers, packaging, residential landscape wastes, other household discards, and light industrial debris.

Hazardous materials are defined as a substance or material that has been determined to pose an unreasonable risk to health, safety, and property. Materials and waste may be considered hazardous if they are toxic, can be ignited by open flame, corrode other materials, react violently, explode, or create vapors. Examples of hazardous wastes may include acids and caustics, spent solvents and other flammable liquids, highly reactive or strong oxidizing materials, industrial process wastes, discarded chemicals, expired pharmaceuticals, toxic metal compounds and materials (e.g., lead-based paint), and other discarded substances that meet specific characteristics or hazardous waste listing criteria. Regulated hazardous materials are identified through federal and state laws and regulations.

Medical waste (another form of regulated solid waste) is generated from the diagnosis, treatment, or immunization of humans or animals. Medical waste includes non-hazardous pharmaceutical waste, trace chemotherapy waste, sharps, and the production or testing of biological materials such as serums, vaccines, antigens, and antitoxins. Laboratory cultures, blood, blood products, tissues, and body parts are also considered medical waste.

## 3.12.1 Regulatory and Policy Framework

This section provides federal, state, and local regulations that apply to solid waste and hazardous materials.

#### 3.12.1.1 Resource Conservation and Recovery Act of 1976

Under the Resource Conservation and Recovery Act of 1976 (RCRA; 42 U.S.C. § 6901 et seq.), EPA regulates hazardous waste from "cradle to grave" including the generation, transportation, treatment, storage, and disposal of hazardous waste under Subtitle C. RCRA also provides a framework for the management of nonhazardous solid wastes regulated under Subtitle D. The California Department of Toxic Substances Control (DTSC) is the primary authority enforcing RCRA in California.

The Hazardous and Solid Waste Amendments (HSWA) modified RCRA in 1984 (Pub. L. 98-616) affirming and extending the "cradle to grave" system of regulating hazardous wastes. The HSWA specifically prohibited the use of certain techniques for the disposal of some hazardous wastes, focusing on waste minimization and phasing out land disposal of hazardous wastes, as well as providing corrective action for releases. Additional HSWA mandates included enhanced enforcement authority for EPA, stricter hazardous waste management standards, and a comprehensive underground storage tank (UST) program.

# 3.12.1.2 Comprehensive Environmental Response, Compensation, and Liability Act of 1980

The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA; 42 U.S.C. § 103) is also known as Superfund. CERCLA provides EPA with the regulatory authority to seek out parties responsible for uncontrolled or abandoned hazardous waste sites; for accidents, spills, and other emergency releases of pollutants and contaminants into the environment; and to ensure cooperation in cleanup efforts. EPA and state environmental protection or waste management agencies coordinate identification, monitoring, and response activities for CERCLA's Superfund sites. The California DTSC is the primary authority enforcing the cleanup of hazardous waste sites in California.

#### 3.12.1.3 Superfund Amendments and Reauthorization Act of 1986

The Superfund Amendments and Reauthorization Act (SARA; Pub. L. 99-499) reauthorized CERCLA to continue cleanup activities around the country. This legislation added several site-specific amendments, clarified definitions, and imposed technical requirements including additional enforcement authorities. Title III of SARA also authorized the Emergency Planning and Community Right-to-Know Act (EPCRA). EPCRA provides state and local organizations with the information necessary to plan for chemical emergencies. Under EPCRA, facilities that store, use, or release certain chemicals may be

subject to several reporting requirements. Facility-reported information is then made publicly available to ensure that interested parties have access to this information and may become more informed about potentially deleterious chemicals in their communities.

#### 3.12.1.4 Toxic Substances Control Act of 1976

The Toxic Substances Control Act (TSCA; Pub. L. 94-469) provides EPA with the regulatory authority to implement requirements for reporting, recordkeeping, and testing, as well as restrictions associated with certain chemical substances and/or mixtures. Specifically, under TSCA, EPA regulates the production, importation, use, and disposal of specific chemicals, such as polychlorinated biphenyls (PCBs), asbestos, radon, and lead-based paint (LBP).

#### 3.12.1.5 Title 29 of the Code of Federal Regulations

Occupational safety standards are established in 29 CFR and are designed to minimize workplace safety risks from both physical and chemical hazards. The Occupational Safety and Health Administration (OSHA) is the federal agency with primary responsibility for assuring worker safety in the workplace. Under 29 CFR § 1910.1200, Hazard Communication Standard, construction workers must be informed about hazardous substances that they may encounter. The regulations require employers to identify and label hazardous substances, communicate hazard information relating to hazardous substances and their handling, provide safety data sheets for hazardous substances, and provide training programs.

Compliance with 29 CFR Part 1926 ensures that construction workers are properly trained to recognize workplace hazards and to take appropriate steps to reduce potential risks caused by such hazards. To protect workers from exposure to potential hazards, a site health and safety plan must be prepared before any work may begin at a site that is contaminated, or where work requires disturbance of building materials containing hazardous substances. OSHA also includes requirements to protect workers from activities that could disturb hazardous materials including asbestos.

## 3.12.1.6 Title 49 of the Code of Federal Regulations

Under 49 CFR, the U.S. Department of Transportation (DOT) has the regulatory responsibility for the safe transportation of hazardous materials. DOT regulations include both products and waste, such as asbestos containing materials (ACM), within the scope of the definition of hazardous materials. During transport, all regulated DOT hazardous materials must meet requirements for packaging, labeling, manifest, and employee training requirements.

#### **3.12.1.7 Atomic Energy Act of 1954**

The Atomic Energy Act of 1954 (Pub. L. 83-703) requires states to assume responsibility for the use, transportation, and disposal of low-level radioactive material and for the protection of the public from radiation hazards. The use of radioactive materials is closely regulated by the NRC, and the requirements for using radioactive byproduct materials for medical uses are set forth in 10 CFR Part 35. The NRC requires users of radioactive materials to keep radiation exposure within the agency's dose limits as low as reasonably achievable. Users are also required to be licensed and undergo inspections by the NRC to ensure safe practices with radioactive materials and compliance with regulations.

# 3.12.1.8 VA National Health Physics Program and VA National Radiation Safety Committee

Under the guidance of VA's National Radiation Safety Committee, VA's National Health Physics Program provides regulatory oversight for the NRC's Master Materials License (MML), which entails permitting the use of radioactive materials, conducting on-site inspections, and investigating incidents. VA's National Health Physics Program manages the MML and issues each VHA facility a Materials Permit for all use of radioactive materials (U.S. Department of Veterans Affairs, 2015).

# 3.12.1.9 Department of Veterans Affairs Directives

VA and VHA have established several interrelated directives to establish a policy framework for the handling of solid waste and hazardous materials across its national health care system operations. These internal VA/VHA standards are designed to promote the protection of the environment and safeguard all Veterans, employees, and visitors who may be accessing VA facilities and services from environmental hazards. Key environmental management directives include:

- VA Directive 0057, Environmental Management Program, consolidates and expands the content
  of previous environmental directives into one directive to address green purchasing, chemicals
  management and pollution prevention, electronics stewardship, environmental compliance, waste
  prevention and recycling, and environmental management systems. VA Directive 0057
  reinforces VA's policy to conduct business in a sustainable manner.
- VA Directive 0059, Chemicals Management and Pollution Prevention, establishes policies for implementing chemicals management and pollution prevention requirements of VA Directive 0057.
- VA Directive 0063, *Waste Prevention and Recycling Program*, establishes uniform internal procedures for waste prevention and recycling programs across VA.
- VHA Directive 1105, Management of Radioactive Materials, establishes policies and actions to
  ensure management of radioactive materials by implementing and maintaining NRC's MML.
  Under the NRC's MML, VHA is authorized to issue permits to individual VA medical facilities
  to use radioactive materials.
- VHA Directive 1850.02, Pest Management Operations, provides the requirements for
  establishing and maintaining an effective integrated pest management program within VA
  medical facilities.
- VHA Directive 1850.06, *Waste Management Program*, describes the requirements for establishing and maintaining integrated waste management programs.
- VHA Directive 7705, Management of Hazardous Chemicals, provides procedures to ensure that
  hazardous chemicals are ordered, stored, handled, used, and disposed of in a manner consistent
  with applicable regulatory, statutory, and accreditation requirements and accepted safe practices.
  This directive also requires that each VA medical facility maintains a Hazardous Chemicals
  Management Program to address management and reduction of hazardous chemicals and wastes.

- VHA Directive 7706, *Management of Mercury in Veterans Health Administration Facilities*, assigns responsibility and describes procedures for the management, reduction, and virtual elimination of mercury and mercury containing compounds in VA medical facilities in a manner that is safe, protective of the environment and compliant with all applicable regulations.
- VHA Directive 7709, *Emergency Planning and Community Right-to-Know Program*, describes the procedures for implementation and maintenance of EPCRA through VHA.
- VHA Directive 7710, Management of Lead-Based Paint in VHA Housing & Child Occupied Facilities, establishes policy for the LBP assessment program to reduce exposure to lead in VHA-owned housing and child-occupied facilities. This includes all VHA housing constructed before 1978 and regulates VHA target housing with emphasis on the protection of children.
- VHA Directive 7714, *Asbestos Management Program*, describes the policy on the identification, management and control of hazards related to ACM at VA facilities.
- VHA Directive 7715, *Safety and Health During Construction*, establishes the policy for maintaining safe and healthy worksites for staff, patients, volunteers, visitors, contractors, and the public during construction- and renovation-related activities. This directive emphasizes that construction and renovation activities on VA-owned and VA-leased properties be conducted to protect the health and safety of VA and contractor staff, patients, and the public.

# 3.12.1.10 California Department of Resources Recycling and Recovery Solid Waste Regulations

The California Department of Resources Recycling and Recovery (CalRecycle) manages solid waste in the state (27 CCR Division 2, Subdivision 1). CalRecycle is responsible for providing oversight to state-managed waste handling and recycling programs and ensuring that Local Enforcement Agencies (LEAs) carry out state waste management programs (CalRecycle, 2015). LEAs permit, inspect, and enforce state and local solid waste standards. LEAs have primary responsibility for the correct operation and closure of solid waste facilities and for guaranteeing the proper transportation and storage of solid waste. This can be accomplished through unannounced inspections, issuing corrective notices and enforcement orders, and responding to citizen complaints. The LEA for solid waste and recycling facilities located within the city of Los Angeles is the Los Angeles Department of Building and Safety (City of Los Angeles Department of Building and Safety, 2017b). The LEA for solid waste and recycling facilities located in the greater Los Angeles County is the County Department of Public Health (Los Angeles County Department of Public Health, n.d.).

# 3.12.1.11 California Department of Toxic Substances Control Regulations

Under 22 CCR Division 4.5, specific wastes are identified that are subject to regulation as hazardous wastes. The California DTSC is responsible for enforcement of these hazardous waste laws and regulations, overseeing cleanup of hazardous wastes, approving permits for facilities that store, treat, or dispose hazardous wastes, and protecting consumers from toxic materials.

Universal wastes are a subset of hazardous wastes that are widely produced by households and businesses and are subject to less stringent management standards than hazardous wastes. There are seven categories of hazardous wastes managed as universal wastes, including computers, electronic devices, batteries, fluorescent lamps, mercury containing devices and equipment, aerosol cans, and cathode ray tubes. Universal wastes must be disposed at a universal waste transfer station, recycling facility, or authorized disposal facility (22 CCR Division 4.5, Chapter 11, Section 66261.9).

## 3.12.1.12 California Medical Waste Management Act

The Medical Waste Management Act (MWMA; California Health and Safety Code, Division 104, Part 14) authorizes a local governing body to implement and enforce a medical waste management program by adopting an ordinance or resolution. A medical waste management program involves processing and reviewing medical waste management plans, inspecting on-site treatment facilities, conducting evaluations, or reviewing records for all facilities that have been issued a large quantity medical waste registration or permit. Medical waste generators must be inspected in response to complaints or emergency incidents, and their medical waste permits issued by the local agency may be either suspended or revoked upon failure of an inspection. Inspections ensure that businesses comply with applicable regulations including the MWMA. For the WLA Campus, the local governing body is the California Department of Public Health.

### 3.12.1.13 Unified Program

The California Environmental Protection Agency (CalEPA) is responsible for coordinating and evaluating the administration of the Unified Program and certifying Unified Program Agencies. Certified Unified Program Agencies (CUPAs) are accountable for carrying out responsibilities regarding administrative requirements, permits, inspections, and enforcement for six components of the Unified Program, to include:

- Hazardous Materials Release Response Plan and Inventory (HMRRP or Business Plan)
- California Accidental Release Prevention
- USTs
- Aboveground Petroleum Storage Act
- Hazardous Waste Generator and On-site Hazardous Waste Treatment (Tiered Permitting)
- California Fire Code: Hazardous Materials Management Plans (HMMP) and Hazardous Materials Inventory Statements (HMIS)

LAFD is the CUPA responsible for the Unified Program within Los Angeles County and as a participating agency has an agreement to implement certain elements (including USTs) of the Unified Program within the City of Los Angeles. The City of Los Angeles Fire Department is the participating agency responsible for overseeing hazardous materials, ASTs, and USTs components at the WLA Campus. The Los Angeles County Fire Department retains authority for tiered permitting, recycling, and waste.

#### 3.12.2 Current Conditions

The WLA Campus provides health care and medical research in addition to serving administrative functions, housing, nutritional services (kitchen), laundry, engineering shops, and police operations. For day-to-day operations, the WLA Campus is permitted to generate, store, and handle hazardous and/or medical waste, as well as storing hazardous materials, such as diesel fuel and gasoline in storage tanks. The WLA Campus has a Title V facility permit for air emissions (see Section 3.2, Air Quality) related to numerous reciprocating internal combustion emergency generators, five steam and hot water boilers, three liquified petroleum gas (LPG) storage tanks, and a gasoline dispenser for refueling VA fleet vehicles (South Coast Air Quality Management District, n.d.). Presently, there is no fire department located on the WLA Campus.

Daily operations at the WLA Campus require the management of solid waste and the use of hazardous materials. This covers a wide range of activities for delivering medical services, such as administering chemotherapy or managing used sharps containers, biomedical waste, and pathogenic waste. Other services associated with solid waste and hazardous materials include cleaning and sterilization (e.g., laundry) of medical areas and patient rooms, clinical laboratories, and laboratory-based medical research. Hazardous materials, such as medical gases, pharmaceuticals, sterilization chemicals, and toxins, are used and solid waste is generated during O&M. O&M activities associated with the use of solid waste and hazardous materials include waste stream management; operation of boilers, chillers, and HVAC systems (refrigerants); operation of electrical systems (e.g., emergency generators, oil-filled transformers); aboveground and underground fuel storage; and pest management.

#### 3.12.2.1 Solid Waste

The WLA Campus is located in an unincorporated section of Los Angeles County and, therefore, does not receive solid waste services through LA Sanitation (LA Sanitation, n.d.). Solid waste is collected on the WLA Campus within on-site dumpsters for disposal, reuse, or recycling. Active Recycling Company provides solid waste collection and disposal services for the WLA Campus. In 2017, 2,984.47 tons of non-hazardous solid waste were disposed of between Chiquita Canyon Landfill, located in Los Angeles County, and Simi Valley Landfill, located in Ventura County. This represents approximately 0.07 percent of the combined total annual solid waste these landfills are permitted to receive. Recyclable materials (excluding electronic equipment) are also collected by Active Recycling Company and include cardboard, paper, scrap metal, appliances, and wooden pallets. Figure 3.12-1 identifies the location of the WLA Campus recycling yard, which is used to sort and store recyclable materials prior to pick up by Active Recycling Company. In 2017, 466.01 tons of recyclable materials were sent from the WLA Campus to Active Recycling Company. Recyclable electronic equipment is shipped directly to Unicor for processing and recycling. In 2017, 56.68 tons of recyclable electronic equipment were shipped by the WLA Campus to Unicor (Olson, 2018).

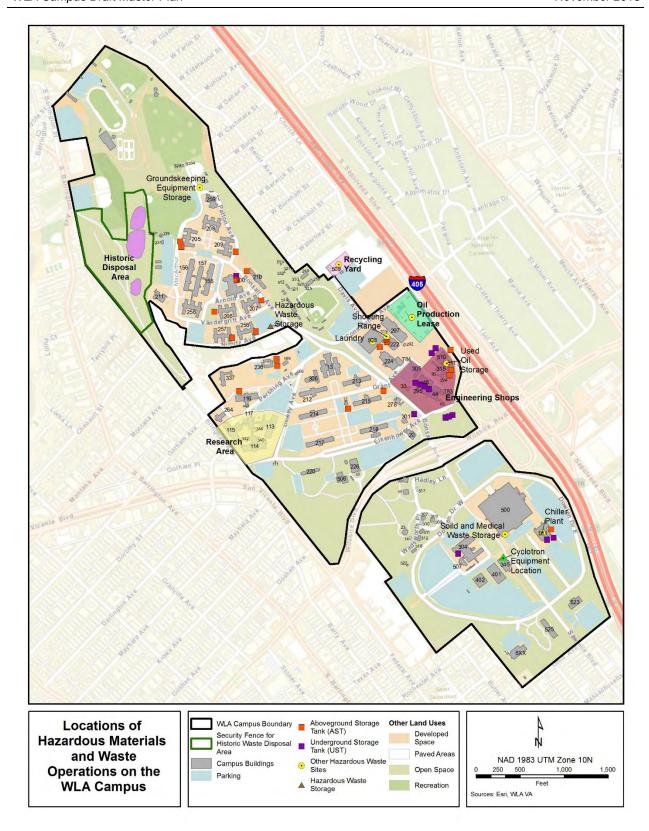


Figure 3.12-1. Locations of Hazardous Materials and Waste Operations on the WLA Campus

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At the WLA Campus, solid waste also includes medical pathological waste, non-hazardous pharmaceutical waste, and trace chemotherapy waste. Medical pathological waste includes sharps having the potential to puncture or lacerate, blood and tissue contaminated materials like bandages and surgical dressing, tissue from surgeries or autopsy, medical research animal carcasses, and personal protective equipment such as latex gloves, gowns, and masks. The WLA Campus generates more than 200 pounds of regulated medical waste each month, making the facility a large quantity generator of medical waste. Medical waste that may present a bio-hazard (i.e., infectious) is collected by EDM and transported to an autoclave, and then steam sterilized before disposal. Pathological waste, trace chemotherapy waste, and non-hazardous pharmaceutical waste, are collected by EDM utilizing a subcontract with Stericycle for off-site incineration. In 2017, 172.43 tons of medical pathological waste, trace chemotherapy waste, and non-hazardous pharmaceutical waste, were generated by the WLA Campus (Olson, 2018).

#### 3.12.2.2 Hazardous Waste

The WLA Campus is a large quantity generator of hazardous waste (i.e., generates more than 2,200 pounds of hazardous waste or 2.2 pounds of acutely hazardous waste per month) with most of the hazardous waste generated by medical services at the WLA Medical Center, such as the in-patient pharmacy and clinical laboratories. The WLA Campus generates both acutely hazardous waste and traditional hazardous waste. On the northern portion of the WLA Campus, medical research laboratories generate hazardous waste, as do the engineering shops. Examples of hazardous waste generated by operations at the WLA Campus include ignitable laboratory solvents, unused commercial chemical products (e.g., pharmaceuticals and laboratory chemicals), acutely hazardous waste pharmaceuticals (P-listed), and oil contaminated waste. Hazardous wastes, other than hazardous waste pharmaceuticals, are collected by North State Environmental and incinerated off site. Hazardous waste pharmaceuticals are collected by EDM through a subcontract with Stericycle and incinerated off site. Before being shipped off site, all hazardous waste is collected from points of generation throughout the campus and transferred to Building 223, where it is accumulated for up to 90 days (Figure 3.12-1). In 2017, 38.74 tons of hazardous waste, including hazardous waste pharmaceuticals, were generated by the WLA Campus (Olson, 2018).

Universal waste is a subset of hazardous waste with less stringent management requirements. Federal universal waste regulations include hazardous waste batteries, mercury-containing equipment, certain pesticides, and lamps. Additional categories of hazardous wastes managed as universal wastes In California include electronic devices, additional mercury-containing items including dental amalgam, cathode ray tubes, and non-empty aerosol cans. As a result of wastes generated on site, the WLA Campus is classified as a small quantity handler of universal waste. North State Environmental collects all universal waste streams, other than electronic equipment, which is sent to Unicor.

#### 3.12.2.3 Hazardous Materials

The WLA Campus utilizes hazardous materials associated with medical services and the O&M of Campus infrastructure. Certain hazardous materials (as identified in California Health and Safety Code, Chapter 3.2, Article 5, Section 339), when stored in quantities greater than 500 pounds, must be reported by the facility to the CUPA in an annual report. For the 2017 reporting year, the WLA Campus reported hazardous substances were stored in quantities greater than 500 pounds for diesel fuel, ethanol,

formaldehyde, formalin, gasoline, lubricating oils, methanol (mixed with dimethylbenzene), motor oil, liquid nitrogen, oxygen, and xylenes (California Environmental Protection Agency, 2017a). Other examples of hazardous materials present on the WLA Campus include laundry chemicals, pharmaceutical products, laboratory chemicals, solvents, aerosols, paints and stains, pesticides, water treatment chemicals, welding fuels, and other compressed gasses (U.S. Department of Veterans Affairs, 2017f).

## 3.12.2.4 Building Materials

Certain buildings located on the WLA Campus still contain LBP and ACM, while some electrical equipment is known to contain PCBs. Records of existing surveys of LPB, ACM, and PCBs are maintained by the WLA Campus Industrial Hygienist. If demolition of structures containing LBP, ACM, and PCBs were planned to occur, specific mitigation measures would need to be taken. Additionally, disposal of LBP, ACM, and PCBs may require special handling, packing, and documentation when quantities are sufficient to trigger regulatory requirements under OSHA, DOT, TSCA, or air quality programs.

## 3.12.2.5 Underground and Aboveground Storage Tanks

The WLA Campus has USTs and aboveground storage tanks (ASTs) used for fuel or oil storage, and one AST is used for the storage of brine water (Figure 3.12-1). There are 14 USTs located throughout the WLA Campus. Of those, 13 USTs are actively in use ranging in size from 1,000 gallons of diesel fuel to 60,000 gallons of LPG. An abandoned 388,000-gallon reinforced concrete UST was designed to store fuel oil and is currently in the process of being permanently closed. Table 3.12-1 lists the USTs located on the WLA Campus, including the size of the tank, use, tank construction material, and approximate location (ALTA Environmental, 2017).

Size Tank **Tank Material** Use **Tank Location** Contents (gallons) Building 295 Diesel Heating Steel 20,000 Diesel Heating Steel Building 295 20,000 Building 295 Steel Diesel Heating 20,000 Steel Building 510 Gasoline 2,500 Vehicles Diesel 2,500 Vehicles Steel Building 510 Steel Building 501 Diesel 20,000 Generator(s) Building 501 Steel 20,000 Diesel Generator(s) Steel Building 304 Diesel 1,000 Generator(s) Building 295 Diesel 2,500 Generator(s) Steel Building 300 Steel Diesel Generator(s) 5,000 Steel South of Building 44 LPG 60,000 Heating LPG Heating Steel South of Building 44 60,000 Steel South of Building 44 LPG 60,000 Heating 388.000 Concrete Northeast of Building 20 None Not in Use

Table 3.12-1. USTs on the WLA Campus

Source: (ALTA Environmental, 2017)

In addition to the USTs, there are 20 ASTs on the WLA Campus ranging in size from 75 to 30,000 gallons. Of the 20 ASTs, 17 contain diesel fuel, one contains propane, one stores used motor oil, and one

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stores brine water. Furthermore, eight of the 20 ASTs are small tanks (i.e., 500 gallons or less) connected beneath associated emergency engine generators, referred to as "belly tanks." The remaining 12 ASTs are free-standing tanks. All ASTs, except for the brine tank, are steel double-walled tanks. The brine tank is made of a high-density plastic. Table 3.12-2 lists the ASTs on the WLA Campus and includes the tank size, use, construction material, and approximate location (ALTA Environmental, 2017). Refer to Figure 3.12-1 for the location of the USTs and ASTs on the WLA Campus.

Table 3.12-2. ASTs on the WLA Campus

Tank Contents	Size (gallons)	Use	Tank Material	Tank Location
Diesel	1,000	Generator(s)	Steel	Building 205
Diesel	75	Generator(s)	Steel – Belly Tank	Building 205
Diesel	100	Generator(s)	Steel – Belly Tank	Building 206
Diesel	100	Generator(s)	Steel – Belly Tank	Building 207
Diesel	100	Generator(s)	Steel – Belly Tank	Building 210
Diesel	500	Generator(s)	Steel – Belly Tank	Building 209*
Diesel	100	Generator(s)	Steel – Belly Tank	Building 256
Diesel	1,000	Generator(s)	Steel	Building 257
Diesel	5,000	Generator(s)	Steel	Building 12
Diesel	200	Generator(s)	Steel	Building 116
Diesel	20,000	Generator(s)	Steel	Building 215G
Diesel	1,525	Generator(s)	Steel	Building 222
Diesel	700	Generator(s)	Steel	Building 236
Diesel	75	Generator(s)	Steel – Belly Tank	Building 236
Diesel	2,000	Generator(s)	Steel	Building 299
Diesel	75	Generator(s)	Steel – Belly Tank	Building 300
Diesel	20,000	Generator(s)	Steel	Building 501
Used motor oil	300	Used Oil	Steel	Building 314
Propane	300	Fuel	Steel	Building 315
Salt Brine	30,000	Laundry Water	High-Density Plastic	Building 508

Source: (ALTA Environmental, 2017)

According to a review of an Environmental Data Resources (EDR) records search for the WLA Campus, historical leaks from USTs have occurred on the WLA Campus (Environmental Data Resources, 2017). Further review of records from the California SWRCB GeoTracker website, three USTs referenced at location T-65 and one UST referenced at location T-304 identified leaks of gasoline and diesel in 1992. Upon identification of the leaks, all four USTs were closed and removed in July 1992. Later, in September 2001, these leaks were first reported to the California SWRCB. Sampling of soil and groundwater was performed in the immediate vicinity of the historical tanks in March 2004. Results of samples are not provided in GeoTracker; however, no remediation of soil or groundwater was required. The California SWRCB provided the WLA Campus letters of No Further Action for these releases on May 17, 2004 (California State Water Resources Control Board, 2015b).

<sup>\*</sup> Tank is located on the WLA Campus but is no longer operated by VA. Tenant agency occupies Building 209 and operates the AST for emergency power.

In January 1994, leaks of gasoline and diesel from two USTs referenced as location T-258 (California State Water Resources Control Board, 2015c), and two USTs referenced as location T-501 (California State Water Resources Control Board, 2015d) were discovered. Upon identification of the release, these four USTs were removed and closed in January 1994. Similar to the 1992 leaking USTs, the 1994 leaks were first reported to the California SWRCB in September 2001. For the leaks at T-258, sampling of soil and groundwater was performed in March 2004. Results of samples are not provided in GeoTracker; however, no remediation of soil or groundwater was required. The California SWRCB provided the WLA Campus letters of No Further Action for T-258 on May 11, 2004, confirming closure of the releases (California State Water Resources Control Board, 2015c). For the leaking USTs at T-501, a more thorough environmental investigation was required. Four groundwater monitoring wells were installed in July 2004, and soil grab samples were collected. The soil samples were analyzed for benzene, toluene, di-isopropyl ether (DIPE), ethanol, ethylbenzene, ethyl tert-butyl ether (ETBE), methyl-tert-butyl ether (MTBE), total petroleum hydrocarbons (TPH) as gasoline (TPHG), tert-amyl methyl ether (TAME), tertbutyl alcohol (TBA), and total xylenes and m-, p-, and o-xylenes. For chemicals other than TPHG, results of contaminants were non-detected. Results of TPHG samples reported concentrations ranging from 0.02 milligrams per kilogram (mg/kg) to 3.3 mg/kg. Quarterly groundwater testing continued from July 2004 through April 2005. No results of quarterly groundwater sampling are provided in GeoTracker. As a result of the soil and groundwater investigations, no remediation of soil or groundwater was required. The California SWRCB provided the WLA Campus letters of No Further Action for the release at T-501 on May 31, 2005, confirming closure of the releases (California State Water Resources Control Board, 2015d).

There is no indication that the current soil or groundwater at the WLA Campus remains affected by these previous leaking UST events.

#### 3.12.2.6 Oil Production Lease

Breitburn operates an oil production lease on the eastern portion of the WLA Campus immediately south of Constitution Avenue and west of I-405. Figure 3.12-1 identifies the location of the lease, which covers approximately 2.5 acres. The lease is known as the Dowlen-Federal lease, and Breitburn extracts oil from the Sawtelle oil field (see Section 3.4, Geology and Soils). Breitburn is a small quantity generator of hazardous waste (i.e., generate between 220 and 2,200 pounds of hazardous waste per month) and has been assigned EPA identification number CAL000231820. Operations began in 2013, and no violations or releases have been reported for the site. For 2017, the Breitburn site reported storage of crude oil greater than 120,000 gallons but not exceeding 1,199,999 gallons (California Environmental Protection Agency, 2017b).

# 3.12.2.7 VA Police Department Firing Range

The VAPD operates one firing range on the WLA Campus. The firing range is a free-standing customized trailer, approximately 100 feet in length, designed with three interior firing lines. The firing range is situated on the eastern portion of the WLA Campus east of Building 508 (Laundry) and northwest of Building 222 (Figure 3.12-1). The VAPD reports the range is certified to handle high power rifle rounds but is used predominately for pistol practice with 9mm ammunition (Centeno, 2018). The unfired 9mm ammunition is comprised of lead bullets, gun powder, brass casings, and brass primers.

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After discharging, the lead bullets and brass casings are recovered by VA police officers on the range and recycled. The lead bullets are recycled by L&G Batteries. The brass casings are recycled through Safeway Recycling. Before recycling, the used bullets and casings are accumulated and stored in a 55-gallon plastic drum located immediately outside the firing range. Approximately four times per year, the firing range high-efficiency particulate arrestance (HEPA) filters and the separate particulate filter (for lead dust) are changed. The HEPA filters are recycled by Safeway Recycling, while the lead particulate filters are disposed of as hazardous waste through US Ecology (Dalley, 2018).

### 3.12.2.8 Regulated Nuclear Material Sources

The NRC issued a MML (No. 03-23853-01VA) to VA on March 17, 2003. There is no expiration date for the VA's MML. Under the MML, VA is authorized to issue byproduct radioactive material permits and inspect VA's permitted facilities throughout the United States. As of April 2017, VA manages 117 permittees through MML No. 03-23853-01VA (U.S. Department of Veterans Affairs, 2014; NRC, 2017). The WLA Campus is one of the 117 VA permitted facilities operating under MML No. 03-23853-01VA. The WLA Campus permit (No. 04-00181-04) is issued as a broad scope medical permit for medical diagnosis, therapy, and research in humans (NRC, 2011).

The WLA Campus houses two cyclotrons located in Building 345. Cyclotrons are a type of particle accelerator used to generate positron emission tomography (PET) imagery of radionuclides and radiopharmaceuticals for medical diagnosis and research studies by UCLA and VA. The newer cyclotron, purchased by UCLA, is a 19 milli-electrovolt (MeV) R-19 cyclotron used daily to produce flourine-18 for nuclear medicine imaging studies and used occasionally to produce a small amount of carbon-11 for research purposes. The other older cyclotron, which was donated by UCLA, is a 45 MeV typically in standby mode as a back-up for the newer cyclotron (NRC, 2011).

The cyclotrons are overseen and operated by two full-time chemists and two full-time cyclotron engineers. The cyclotron-produced nuclides are transferred from the cyclotron through enclosed delivery lines, which discharge into four processing hoods where the particles undergo chemical synthesis. Effluent (i.e., fume-hood exhaust) is filtered before being released to the atmosphere. Weekly surveys of radiation levels are performed in the cyclotron production and synthesis areas. Liquid and gas targets are used to produce accelerator-produced radionuclides. Used targets are stored in the cyclotron vault. NRC records report radiation levels measured in the cyclotron production areas to be within regulated limits. Radiation levels measured by NRC in the cyclotron control room were measured and determined to be at background. Following a 2011 on-site inspection, NRC determined no unusual or unexpected levels of radiation were measured and no employee or member of the public encounters radiation in doses greater than limits specified in 10 CFR § 20.1201 or § 20.1301 (NRC, 2011).

In addition to the cyclotrons, the WLA Campus contains a historical waste disposal area that is identified in a Letter of Understanding between NRC and VA, dated June 16, 2014, which was incorporated into the VA's MML on July 9, 2014 as Amendment #9 (NRC, 2017). The Letter of Understanding restricts VA from altering the status (i.e., land use) of the historical waste disposal area without NRC approval (U.S. Department of Veterans Affairs, 2014). Additional information on the historical waste disposal area is provided in Section 3.12.2.9.

## 3.12.2.9 Historical Waste Disposal Area

From as early as the 1940s through 1968, medical waste, hazardous waste, and low-level radioactive waste were buried in a disposal area within the WLA Campus. Incinerator ash, presumably from medical waste, as well as unburned medical waste, animal carcasses, medical isotope waste, and hazardous waste were buried in three distinct burial pits within the arroyo (Figure 3.12-1) (U.S. Department of Veterans Affairs, 2016a).

In 1981, Congressman Anthony Beilenson (23<sup>rd</sup> District of California) raised questions regarding the extent and nature of contamination at the burial areas. According to records provided by Congressman Beilenson's office to Herbert Book of the NRC, hundreds of gallons of toluene and a large amount of dioxane were buried at the site. Additionally, multiple areas of stressed soil and vegetation were observable near the reported dumping locations, but specific locations of the waste burial areas were not delineated (NRC, 1981).

Several documented inspections and assessments of this area have occurred since 1981. Results of initial groundwater sampling analysis determined no contamination was present. As a result, NRC made the determination that the site posed no adverse risk to human health (NRC, 1981). The arroyo and this former disposal site have not been planned for development or use.

In December 2010, VA completed the *Initial Volatile Organic Compound (VOC) and Radiological Subsurface Investigation Report* and concluded that VOC contaminants and radionuclides found in the soil and water of the disposal sites did not exceed preliminary remediation goals established for soil and tap water by EPA Region 9. Additionally, contaminant and radionuclide concentrations in groundwater did not exceed maximum contaminant levels established for drinking water by the California Department of Public Health (Allwest Geoscience Inc., 2010). Based on the completed site investigations, no potential health risks were identified. However, the NRC and VA had previously entered into agreement, as a Letter of Understanding, that VA will seek NRC approval for any change in the status of the land from undeveloped/restricted access. On May 4, 2011, the NRC provided VA acknowledgment of their review of results of the 2010 sampling event. NRC agreed with VA's interpretation that the site is not a risk to human health. VA has not made a request to NRC for permission to redevelop the site (U.S. Department of Veterans Affairs, 2014).

#### 3.12.2.10 Off-site Concerns

To determine if activities occurring off site from the WLA Campus have resulted in environmental conditions that may have potentially impacted the WLA Campus, a review of the EDR radius map was performed. The EDR report included a review of environmental databases for locations up to two miles from the center of the WLA Campus reporting activities such as hazardous materials businesses, hazardous waste generators, fuel storage tanks, dry cleaners, and historic contaminations relating to chemical spills or other contaminant releases. Results of the EDR search were screened to eliminate activities occurring more than 0.5 miles from the center of the WLA Campus. Upon review of the EDR records and consideration of local topography and hydrology, seven facilities were identified as users of hazardous materials or as hazardous waste generators within 0.5 miles from the WLA Campus. However, none of the seven facilities have reported spills or other environmental incidents resulting in the release of hazardous materials or hazardous waste to soil or groundwater (Environmental Data Resources, 2017).

Therefore, it is unlikely surrounding land use has impacted environmental conditions on the WLA Campus.

## 3.13 Transportation and Traffic

This section provides an overview of the regulatory framework and summarizes the existing conditions for transportation and traffic-related matters, including traffic, circulation, parking, transit, pedestrian, and bicycle activities at the WLA Campus.

# 3.13.1 Regulatory and Policy Framework

The following agencies and plans govern transportation planning in the areas surrounding the WLA Campus:

- The Southern California Association of Governments (SCAG) *Regional Transportation Plan/ Sustainable Communities Strategy (RTP/SCS)* was adopted in April 2016. The RTP/SCS represents SCAG's long-term vision for the region's transportation system, emphasizing mobility, accessibility, safety, reliability, and sustainability to create a framework for capital investment in transportation infrastructure.
- The Los Angeles County *Congestion Management Program (CMP)* is a state-mandated program intended to link local land use decisions with their impacts on regional transportation and air quality and develop a partnership among transportation decision makers on devising appropriate transportation solutions that include all modes of travel. LA Metro is responsible for formulating the CMP and implementing the program for planning, managing vehicular congestion, and coordinating regional transportation policies.
- The City of Los Angeles General Plan Mobility Element (*Mobility Plan 2035*) provides the policy foundation for achieving a transportation system that balances the needs of all road users.
   *Mobility Plan 2035* includes five main goals that define the City's high-level mobility priorities:
   Safety First; 2) World Class Infrastructure; 3) Access for All Angelenos; 4) Collaboration, Communication, and Informed Choices and 5) Clean Environments and Healthy Communities.
- The WLA Transportation Improvement and Mitigation Specific Plan (TIMP) is a transportation-specific plan area for all, or portions of WLA, Westwood, Brentwood–Pacific Palisades, and the Palms–Mar Vista–Del Rey Community Plan Areas, which are adjacent to the WLA Campus. Key objectives of the TIMP involve the promotion of areawide transit enhancements, incorporation of neighborhood protection programs to minimize intrusion of commuter traffic through residential neighborhoods, encouraging Caltrans to widen the I-405 for high occupancy vehicle (HOV) lanes, the creation of funding mechanisms for specific transportation improvements, and regulation of phased development.

#### 3.13.2 Current Conditions

The WLA Campus encompasses approximately 388 acres northwest and southwest of Wilshire Boulevard and the I-405, surrounded by the Los Angeles communities of Brentwood, Westwood, and West Los

Angeles. The WLA Campus is served by a comprehensive system of transportation options (roads, public transit, bicycle lanes, and pedestrian access) as described in this section.

#### 3.13.2.1 Roadway System

Regional access for the WLA Campus and the surrounding area is provided by an extensive freeway, arterials, collector, and local street network. The Santa Monica (I-10) and San Diego (I-405) freeways are located south and directly east of the WLA Campus, respectively. These freeways provide convenient access to the larger, regional roadway network.

- The <u>San Diego Freeway (I-405)</u> is a major north-south interstate highway. I-405 branches off from Interstate 5 (I-5) in the Sylmar Community near the City of San Fernando and passes through the San Fernando Valley, West Los Angeles, South Central Los Angeles, the City of Long Beach and Orange County before rejoining I-5 in the City of Irvine. I-405 is primarily a north-south route through the west side of Los Angeles County. In the vicinity of the WLA Campus, this freeway typically provides four general-purpose travel lanes and one HOV travel lane in each direction and interchanges with I-10/Santa Monica Freeway, and has full or partial ramp connections at Sunset Boulevard, Wilshire Boulevard, and Santa Monica Boulevard. According to most current (2016) data available from the Caltrans, I-405 has an average daily traffic volume of 289,000 to 310,000 vehicles near Wilshire Boulevard (Caltrans, 2018).
- The <u>Santa Monica Freeway (I-10)</u> is a major east-west interstate highway that runs in the State of California east from Santa Monica through Los Angeles and San Bernardino to the border with Arizona continuing east through the southern United States. Near the WLA Campus, I-10 connects downtown Los Angeles to Mid-City, the City of Culver City, West Los Angeles, and the City of Santa Monica. In the vicinity of the WLA Campus, this freeway typically provides four travel lanes in each direction and interchanges with the I-405 and has full or partial ramp connections at Bundy Drive and Overland Boulevard. According to the most current (2016) data available from Caltrans, average daily traffic volumes on I-10 near the I-405 junction are approximately 237,000 to 250,000 vehicles (Caltrans, 2018).

Important surface streets within a mile of the WLA Campus include Wilshire Boulevard, Sunset Boulevard, Santa Monica Boulevard, Sepulveda Boulevard, San Vicente Boulevard, Barrington Avenue, Westwood Boulevard, and Veteran Avenue. These roadways, in addition to other important roadways in the area, are described in greater detail below and further illustrated in Figure 3.13-1.

• <u>Santa Monica Boulevard</u> is an east-west roadway located less than a 0.25 mile south of the southern end of the WLA Campus. Santa Monica Boulevard is a major arterial that travels through the communities and cities of Silver Lake, Little Armenia, Hollywood, West Hollywood, Beverly Hills, Century City, West Los Angeles and Santa Monica. This roadway terminates at Ocean Avenue near the Pacific Ocean and at Sunset Boulevard near downtown Los Angeles. Proximate to the WLA Campus, Santa Monica Boulevard generally provides three through-travel lanes per direction. Additionally, this roadway includes left- and right-turn channelization at major intersections and some segments feature one local-access frontage lane in each direction. On-street parking is generally permitted. Bicycle lanes are striped intermittently on Santa Monica Boulevard, including near the WLA Campus, between Sepulveda Boulevard and Avenue of the

Stars. Santa Monica Boulevard connects to I-405 with on- and off-ramps in both the northbound and southbound directions.

- Olympic Boulevard, located approximately one mile south of the WLA Campus, is an east-west roadway that extends from Montebello through East Los Angeles, the Fashion District, downtown Los Angeles, Pico Union, Mid-Wilshire, Pico-Robertson, Beverly Hills, Century City, West Los Angeles, and Santa Monica. Within the study area, Olympic Boulevard generally features three through travel lanes in each direction, with left- and right-turn channelization at major intersections, and on-street parking.
- <u>Sunset Boulevard</u> is an east-west avenue that is within two blocks of the northern end of the WLA Campus. It extends easterly from the Pacific Ocean into the Echo Park/downtown Los Angeles area, where it becomes Cesar Chavez Avenue. Within the study area, Sunset Boulevard has two travel lanes and left-turn channelization at signalized intersections as well as on-/off-ramp connections with I-405.
- <u>Wilshire Boulevard</u> begins in the City of Santa Monica and continues easterly into downtown Los Angeles. Wilshire Boulevard serves as the primary access for the site. In the City of Santa Monica, it is designated as a Boulevard roadway. In the site vicinity, Wilshire Boulevard is striped with three travel lanes per direction with left-turn channelization. Generally, within the City of Los Angeles, the eastbound and westbound curb lanes are restricted to bus and right-turn-only operation during the weekday morning and afternoon peak periods. Wilshire Boulevard is grade-separated over Bonsall Avenue, with on-/off-ramps accessing Bonsall Avenue. Wilshire Boulevard also has northbound and southbound ramp connections with I-405.
- <u>Ohio Avenue</u> serves the neighborhood south of the WLA Campus. Ohio Avenue forms the southern boundary of the WLA Campus. It is striped with one travel lane per direction and a bike lane in the eastbound direction, with left-turn channelization installed at key intersections.
- <u>Westwood Boulevard</u> is located approximately 0.50 mile from the WLA Campus and provides two travel lanes per direction, except at Wilshire Boulevard where it has three northbound lanes. Left- and/or right-turn lanes are available on Westwood Boulevard at some locations.
- <u>Veteran Avenue</u> is approximately 0.25 mile from the WLA Campus and extends from Sunset Boulevard to south of Pico Boulevard. It is striped with two travel lanes and left- and right-turn channelization north and south of Wilshire Boulevard.
- Sepulveda Boulevard is one of the longest, continuous arterials in Los Angeles County, extending
  from the northern San Fernando Valley to the South Bay. It runs along the east side of I-405 and
  provides secondary access to the WLA Campus at its intersection with Constitution Avenue.
  Sepulveda Boulevard is generally striped with two travel lanes per direction, along with left-turn
  channelization.
- <u>Sawtelle Boulevard</u> provides primary southerly access for the WLA Campus, terminating within the site north of Dowlen Drive. Sawtelle Boulevard has one travel lane northbound and southbound between Ohio Avenue and Olympic Boulevard, with left-turn channelization at Olympic Boulevard.

- <u>San Vicente Boulevard</u> extends northerly from Wilshire Boulevard where Federal Avenue terminates, and then curves westerly into the City of Santa Monica. It forms a section of the western boundary of the North Campus. San Vicente Boulevard provides two northbound/westbound travel lanes and two to three southbound/eastbound travel lanes within the City of Los Angeles, separated by a raised median. Left-turn channelization is provided at signalized intersections.
- <u>Federal Avenue</u> is proximate to the western boundary of the WLA Campus. Federal Avenue has one to two travel lanes per direction, along with left-turn channelization at key intersections. The prolongation of Federal Avenue north of Wilshire Boulevard is San Vicente Boulevard.
- <u>Barrington Avenue</u> is a local street within the WLA Campus study area. Barrington Avenue is adjacent to or within two blocks of the western boundary of the North Campus. It has one to two travel lanes in each direction, plus left-turn lanes at Wilshire Boulevard, Ohio Avenue, and Santa Monica Boulevard.

In addition to Sawtelle Boulevard, circulation inside the WLA Campus is provided by a series of private streets. Primary internal streets include:

- Bonsall Avenue serves as the primary north-south access roadway for the North Campus and, along with Sawtelle Boulevard, is a primary access roadway for the South Campus. Bonsall Avenue extends northerly from Dowlen Drive on the South Campus, passes under Wilshire Boulevard, and continues northerly to MacArthur Avenue on the North Campus.
- Constitution Avenue, also on the North Campus, runs east-west between a feeder roadway on the
  west and Sepulveda Boulevard on the east, and is used for secondary access to and from
  Sepulveda Boulevard.
- Dowlen Drive is a ring road on the South Campus, intersected by Bonsall Avenue on its northern perimeter and Sawtelle Boulevard on its southern perimeter, creating "East" and "West" segment designations. Dowlen Drive accesses all the major parking lots and buildings on the South Campus.

Generally, these private streets have two-way flow, one travel lane in each direction, and no on-street parking. All intersections on site are stop-controlled, with most having all-way stops.

The physical condition of the WLA Campus roadway network was assessed in 2018 by a combination of manual methods and by use of drone technology. The WLA Campus pavement network contains 1,001 pavement segments, each of which was assessed for this study. Close to half of the WLA Campus pavement segments (49.44 percent) are rated good, satisfactory, or fair; the rest were classified as poor to failing. There were no full pavement branches in a completely failed condition. The greatest density of distresses was identified on the access road off Dowlen Drive E. The best pavement conditions on WLA Campus was identified on Nimitz Avenue and the Service Road along the west side of the campus (Booz Allen Hamilton, 2018c).

In recent years, the Campus has closed several access points from the surrounding public streets for security concerns. These closures also prohibit cut-through traffic from the surrounding neighborhoods.

Direct vehicular access to and egress from the WLA Campus is presently provided via four access/egress points depicted in Figure 3.13-2. These access points are:

- Constitution Avenue and Sepulveda Boulevard Primarily serves as direct access to and egress
  from the North Campus, although some traffic uses this gate for travel to and from the South
  Campus and to and from Wilshire Boulevard to the west;
- Bonsall Avenue north of the Wilshire Boulevard westbound on- and off-ramps Primarily serves as direct access to and egress from the North Campus, although some traffic uses this gate for travel to and from the South Campus and to and from Wilshire Boulevard to the west;
- Bonsall Avenue at Wilshire Boulevard eastbound on- and off-ramps Primarily serves as direct access to and egress from the South Campus, although some traffic uses this gate for travel to and from the North Campus and to and from Sawtelle Boulevard to the south;
- Sawtelle Boulevard at Ohio Avenue Primarily serves as a direct access/egress to/from the South Campus, although some traffic uses this gate for travel to and from the North Campus and to and from Sawtelle Boulevard to the south;
- Additional gates, which are located at Eisenhower Avenue and Bringham Avenue, at Gorham
  Avenue and Bringham Avenue, are opened for vehicles on an as-needed basis such as emergency
  access.

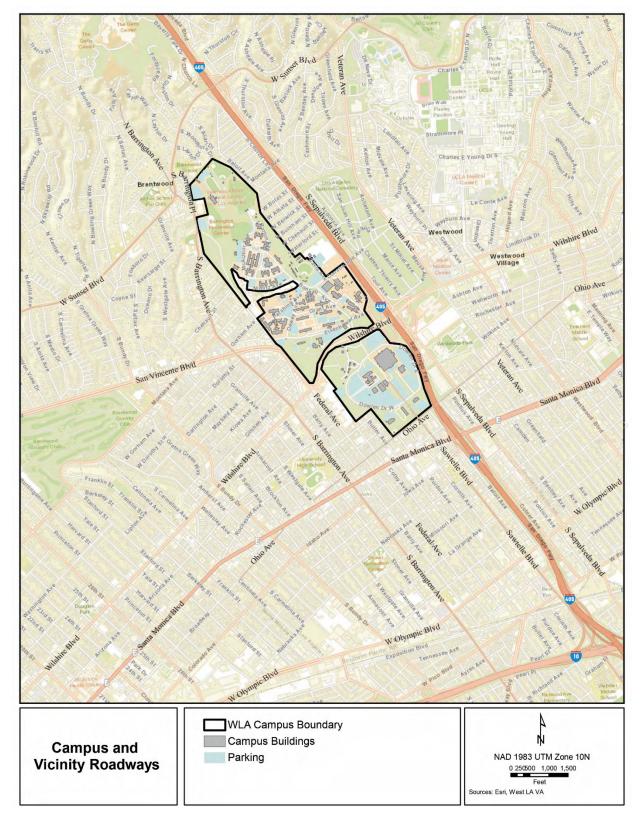


Figure 3.13-1. WLA Campus and Vicinity Roadways

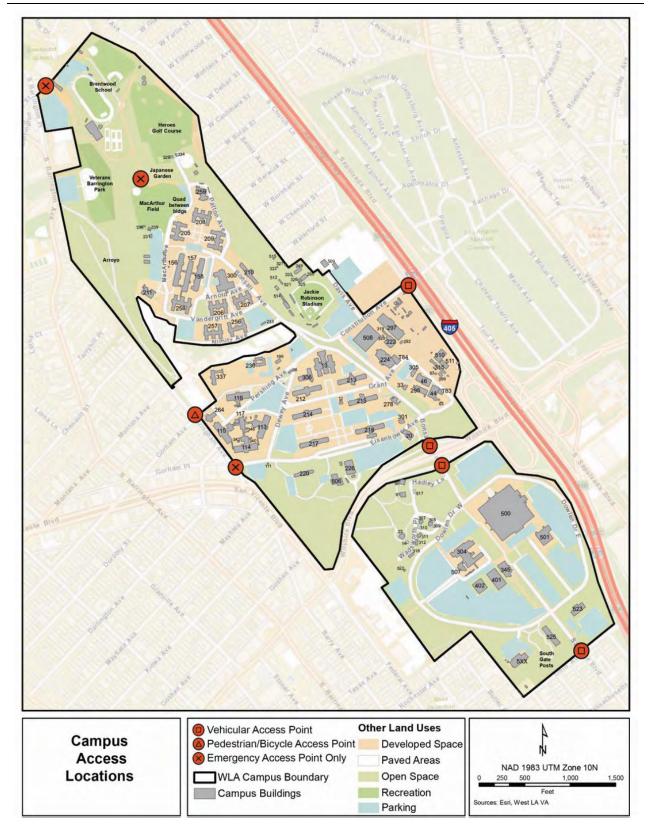


Figure 3.13-2. Existing Vehicular, Bicycle, and Pedestrian Access

#### 3.13.2.2 Public Transit

The WLA Campus and surrounding area are served by an extensive system of bus lines and one rail line. When transfer opportunities are considered, the site is very accessible to and from the greater Los Angeles region via public transit. Moreover, planned improvements and extensions to the bus and rail network are expected to further increase transit access to the WLA Campus. These transit lines, along with the wider area transit network, are summarized in Table 3.13-1.

#### 3.13.2.2.1 Public Bus Transit Service

The WLA Campus is served by bus lines operated by the LA Metro, City of Los Angeles Department of Transportation (LADOT), Santa Monica Big Blue Bus (BBB), Culver City Bus, and the Antelope Valley Transit Authority (AVTA). There are 11 bus lines that stop within approximately 0.25 mile from the WLA Campus. Of the 11 bus lines, five are walkable from both North and South Campus, three are walkable from the North Campus, and three are walkable from the South Campus. The locations and general routes of these bus lines relative to the WLA Campus and surrounding areas are depicted in Figure 3.13-3. In addition, there are numerous bus lines that exist outside the 0.25-mile radius but are still relatively accessible to the WLA Campus.

## 3.13.2.2.2 Public Rail Transit Service

Currently, the Expo Light Rail line is the only rail line that serves West Los Angeles. The Expo Light Rail line provides service between downtown Los Angeles and Santa Monica. Two stations are located within 2.5 miles of the South Campus. More specifically, the Expo/Sepulveda Station is located approximately two miles southeast of the WLA Campus, and the Expo/Bundy Station is located approximately 2.5 miles southwest of the WLA Campus. This rail line operates with six-minute headways during weekday a.m. and p.m. peak periods and 12-15-minute headways during the weekend. The Expo Light Rail line provides multiple transfer opportunities with bus transit service along with other Metro rail lines allowing for greater connectivity to the Southern California region.

**Table 3.13-1. Existing Transit Lines** 

				}		EASTBOU	ND		WESTBOU	DIRECTION	OF SERVIC	NORTHBO	IND		SOUTHBO	IIND
TRANSIT	LINE#	MODE	SERVICE	DESCRIPTION		Headways (			Headways (			Headways (			Headways	_
AGENCY	LINE#	WIODE	TYPE	DESCRIPTION	AM	PM	,	AM	PM		AM	PM	, , , , , , , , , , , , , , , , , , ,	AM	PM	Ì
					Peak	Peak	Weekend	Peak	Peak	Weekend	Peak	Peak	Weekend	Peak	Peak	Weekend
Antelope Valley Transit Authority	AV786	Bus	Commuter Express	Antelope Valley-Westside/Hollywood Express: Northbound to Lancaster/Palmdale, Southbound to Century City/West LA/Hollywood via 14 Fwy, I-405 Fwy, Westwood BI, Santa Monica BI & Wilshire BI							25	20-45	N/A	20-30	N/A	N/A
Big Blue Bus	BBB1	Bus	Local	Northeast bound to UCLA, Westbound to Santa Monica via Santa Monica Bl	12	12	15	12	12	15	1			1		
Big Blue Bus	BBB2	Bus	Local	Northeast bound to UCLA, Westbound to Santa Monica via Wilshire BI	15-17	15-20	20-23	15-20	15-20	20	-					
Big Blue Bus	BBB8	Bus	Local	Northeast bound to UCLA, Westbound to Downtown Santa Monica via National BI, Ocean Park BI	15-20	15-20	30	14-20	15-20	30						
Big Blue Bus	BBBR12	Bus	Rapid	Northbound to UCLA, Southbound to Culver City Station (Expo Line) via Westwood BI, Palms BI							12	12	30	12	12	30
Big Blue Bus	BBB14	Bus	Local	Northbound to Brentwood Village, Southbound to Playa Vista via Bundy Dr, Centinela Ave							16-20	15	17-20	15-20	14-16	20
Big Blue Bus	BBB15	Bus	Local	Northbound to Brentwood Village, Southbound to West LA via Barrington Ave							30-35	30-35	45	30-35	30-35	45
Big Blue Bus	BBB17	Bus	Local	Northbound to UCLA, Southbound to Culver City via Sawtelle BI, Dowlen Dr East (thru VA Hospital grounds) & Wilshire BI							16-20	21-22	45	19-21	18-21	45
Big Blue Bus	BBB18	Bus	Local	Northeast bound to UCLA, Westbound to Santa Monica via Wilshire BI, San Vicente BI & Montana Ave	20-27	20-26	30	20-29	25-26	30						
Culver City Bus	C6	Bus	Local	Northbound to UCLA, Southbound to Metro Green Line Station via Sepulveda Bl							14-20	16-30	20-22	17-20	20-22	20-22
Culver City Bus	R6	Bus	Rapid	Northbound to UCLA, Southbound to Metro Green Line Station via Sepulveda Bl							15-20	15-20	N/A	15-20	15-20	N/A
LADOT	CE431	Bus	Commuter Express	Eastbound to Downtown LA, Westbound to Westwood via I-10 Fwy	25-30	N/A	N/A	N/A	25-35	N/A						
LADOT	CE534	Bus	Commuter Express	Eastbound to Downtown LA, Westbound to West LA via Olympic BI	N/A	20-40	N/A	25-30	N/A	N/A	-			-		
LADOT	CE573	Bus	Commuter Express <sup>1</sup>	Northbound to Encino/Mission Hills, Southbound to Westwood/Century City via I-405 Fwy							N/A	10-35	N/A	10-45	N/A	N/A
Metro Transit Authority	2/302	Bus	Local & Limited, Owl <sup>2</sup>	Eastbound to Downtown LA, Westbound to Pacific Palisades via Sunset BI	9-15	2-13	13-20	3-14	8-13	13-20						
Metro Transit Authority	4	Bus	Local, Owl	Eastbound to Downtown LA, Westbound to Santa Monica via Santa Monica BI & Sunset BI	10-16	8-12	10-20	4-25	11-15	10-20						
Metro Transit Authority	20	Bus	Local, Owl	Eastbound to Downtown LA, Westbound to Santa Monica via Wilshire BI	10-13	10-15	15-20	5-15	6-15	15-20						
Metro Transit Authority	704	Bus	Rapid	Eastbound to Downtown Los Angeles, Westbound to Santa Monica via Santa Monica Bl	15-17	10-15	20-30	10-15	11-21	20-30						
Metro Transit Authority	720	Bus	Rapid	Eastbound to Downtown LA/Commerce, Westbound to Downtown LA/Santa Monica via Wilshire BI & Whittier BI	7-11	3-6	6-20	1-5	8-10	6-20						
Metro Transit Authority	734	Bus	Rapid	Northbound to Sylmar Station, Southbound to Westwood via Sepulveda BI							20-21	14-20	N/A	18-22	19-21	N/A
Metro Transit Authority	788	Bus	Express	Valley-Westside Express: Northbound to Arleta, Southbound to Westwood via Van Nuys BI, I-405 Fwy							15-23	8-19	N/A	14-21	15-24	N/A
Metro Transit Authority	806	LRT	Rail	Eastbound to Downtown Los Angeles, Westbound to Santa Monica via Exposition Bl	6	6	12-15	6	6	12-15						

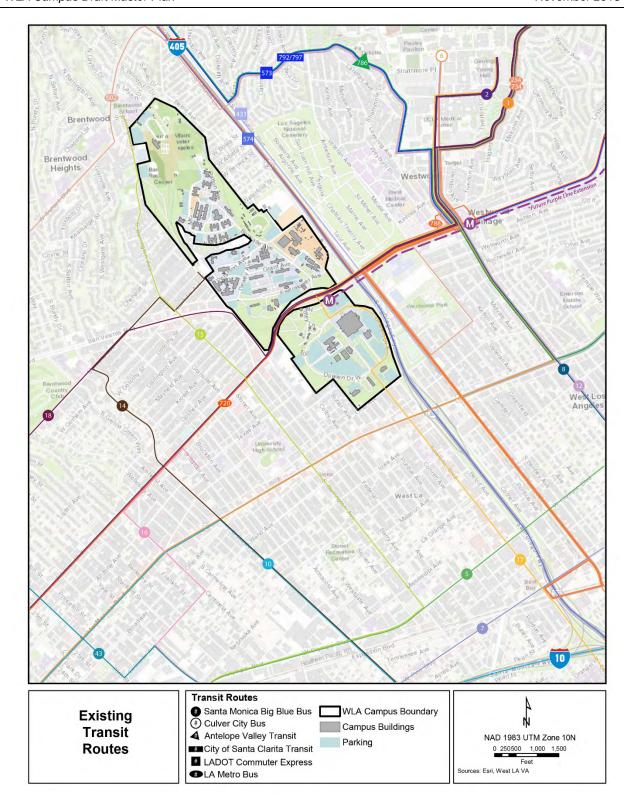


Figure 3.13-3. Existing Transit Routes

# 3.13.2.3 Bicycle Facilities

The WLA Campus existing conditions provide few bicycle-friendly roads, and the bike lanes in place do not connect throughout the WLA Campus. Primary roadways are not designed to be main thoroughfares for pedestrians, bicycles, or shuttles. Accessibility is compromised due to topography challenges, lack of curb cuts, sidewalk conditions and width, safety lighting, traffic calming, and signage.

The WLA Campus study area contains several bicycle facilities with most of the significant bicycle infrastructure located east of the WLA Campus in Westwood. Most notably, lanes on Santa Monica Boulevard connect Santa Monica to Century City; Barrington Avenue connects West Los Angeles to Mar Vista; and Westwood Boulevard connect Westwood to Palms. Bicycle facilities that directly serve the WLA Campus include an existing bicycle lane/route on Ohio Avenue between Westgate Avenue and Westholme Avenue and on San Vicente Boulevard/Federal Avenue between Bringham Avenue and Ohio Avenue. A summary of the WLA Campus area bicycle network is provided in Table 3.13-2 and shown in Figure 3.13-4.

Table 3.13-2. WLA Campus Area Bicycle Network

Roadway	Segment	Туре
Barrington Ave	Federal Ave to Ohio Ave	Route
Broxton Avenue	Le Conte Avenue to Weyburn Avenue	Route
Federal Avenue	Wilshire Boulevard to Ohio Avenue	Route
Gayley Avenue	Weyburn Avenue to Wilshire Boulevard; southbound between Le Conte Avenue and Weyburn Avenue; Le Conte Avenue to Landfair Avenue	Route
Gayley Avenue	Northbound between Le Conte Avenue and Weyburn Avenue	Lane
Glendon Avenue	Weyburn Avenue to Wellworth Avenue	Route
Kinross Avenue	Gayley Avenue to Glendon Avenue	Route
Le Conte Avenue	Gayley Avenue to Hilgard Avenue	Lane
Midvale Avenue	Wilshire Boulevard to Rochester Avenue	Route
Montana Avenue	Sepulveda Blvd to Landfair Avenue	Route
Ohio Avenue	Eastbound between Purdue Avenue and Sepulveda Boulevard	Lane
Ohio Avenue	Westgate Avenue to Purdue Avenue; westbound between Purdue Avenue and Sepulveda Boulevard; Sepulveda Boulevard to Westholme Avenue	Route
San Vicente Boulevard	City of Santa Monica limit to Bringham Avenue	Lane
San Vicente Boulevard	Bringham Avenue to Wilshire Boulevard	Route
Santa Monica Blvd	Sepulveda Blvd to 310 feet west of Avenue of the Stars	Lane
Santa Monica Blvd	Willey Ln to Flores St	Lane
Sepulveda Blvd	Bromwood Avenue to Montana Avenue	Lane
Sepulveda Blvd	Ohio Avenue to Santa Monica Boulevard	Route
Texas Avenue	City of Santa Monica limit to Westgate Avenue	Route
Tiverton Avenue	Le Conte Avenue to Glendon Avenue	Route
Wellworth Avenue	Midvale Avenue to Glendon Avenue	Route
Westgate Avenue	Texas Avenue to Ohio Avenue	Route

Roadway	Segment	Туре
Westholme Ave	Hilgard Ave to Santa Monica Blvd	Route
Westwood Blvd	Wellworth Ave to 350 feet north of Santa Monica Blvd	Lane
Westwood Blvd	350 feet north of Santa Monica Blvd to National Blvd	Route
Weyburn Avenue	Gayley Avenue to Tiverton Avenue	Route

Source: (City of Los Angeles Department of City Planning, 2016)

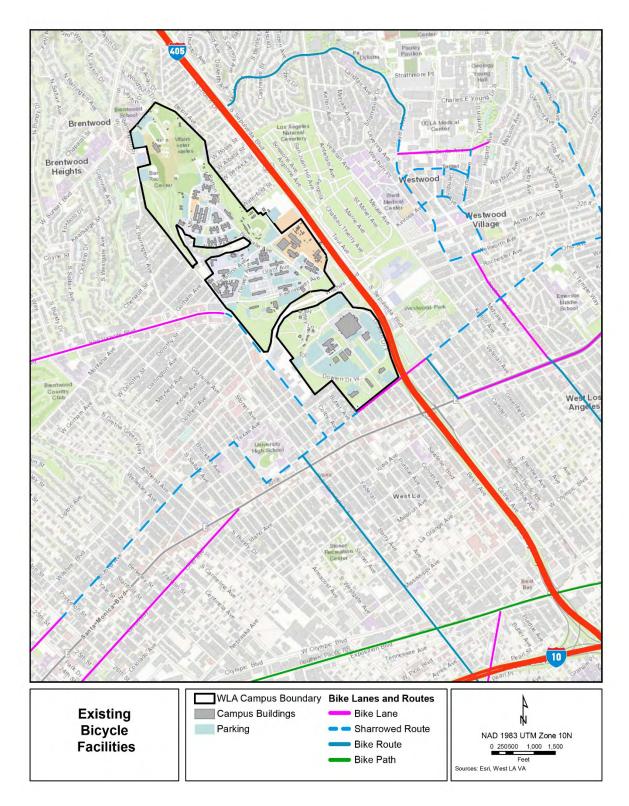


Figure 3.13-4. Existing Bicycle Facilities

## 3.13.2.4 Pedestrian Facilities

The WLA Campus existing conditions for roads and sidewalks does not provide a pedestrian-friendly environment. Accessibility is compromised due to topography challenges, lack of curb cuts, sidewalk conditions and width, safety lighting, traffic calming, and signage.

The roadways near and within the WLA Campus vicinity provide pedestrian sidewalks, generally on both sides of their right-of-way, with crosswalks located at major intersections. The pedestrian facilities provide alternative mode connections to and within the WLA Campus, including serving as first mile/last mile connections to the transit system.

Near the WLA Campus, Westwood Boulevard east of the WLA Campus (between Ashton Avenue and one block north of Santa Monica Boulevard) is designated by the Los Angeles City Planning Department as a pedestrian oriented district. This district is subject to pedestrian-friendly design standards and prohibits auto-centric land uses. This district is within 0.50 mile of the WLA Campus.

# 3.13.2.5 Parking

The WLA Campus has numerous surface parking lots dispersed throughout the North Campus and South Campus, as depicted in Figure 3.13-5. Currently, 4,297 on-site vehicular parking spaces for residents, employees, and guests. The North Campus supplies a total of 2,130 parking spaces, while the South Campus provides a total of 2,167 parking spaces. Table 3.13-3 summarizes the vehicle parking supply for the WLA Campus.

Location **Accessible** Other/Reserved **Total** Regular North Campus 1,726 161 243 2,130 South Campus 2,167 1,823 193 151 **Total** 3,549 354 394 4,297

Table 3.13-3. Vehicle Parking Supply Summary

Table 3.13-4 summarizes the vehicle parking demand survey results on an hourly basis during the period of 8:00 a.m. to 5:00 p.m. on a typical weekday for the WLA Campus.

**Table 3.13-4. Vehicle Parking Demand Summary** 

	North Campus			South Campus			WLA Campus		
Hour Started	Supply	Demand	Occupancy	Supply	Demand	Occupancy	Supply	Demand	Occupancy
8:00 AM	2,130	1,437	67%	2,167	1,620	75%	4,297	3,057	71%
9:00 AM	2,130	1,573	74%	2,167	1,843	85%	4,297	3,416	79%
10:00 AM	2,130	1,603	75%	2,167	2,017	93%	4,297	3,620	84%
11:00 AM	2,130	1,685	79%	2,167	2,095	97%	4,297	3,780	88%
12:00 AM	2,130	1,647	77%	2,167	1,968	91%	4,297	3,615	84%
1:00 PM	2,130	1,639	77%	2,167	2,048	95%	4,297	3,687	86%
2:00 PM	2,130	1,629	76%	2,167	2,006	93%	4,297	3,635	85%
3:00 PM	2,130	1,511	71%	2,167	1,770	82%	4,297	3,281	76%
4:00 PM	2,130	1,305	61%	2,167	1,287	59%	4,297	2,592	60%
5:00 PM	2,130	1,074	50%	2,167	768	35%	4,297	1,842	43%

Source: (Crain & Associates, 2018)

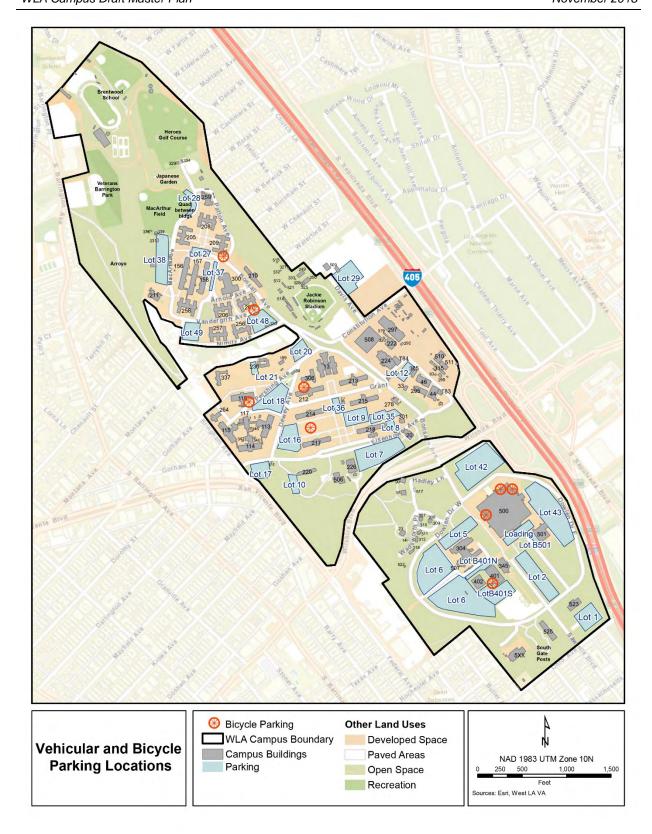


Figure 3.13-5. Vehicular and Bicycle Parking Locations

Bicycle parking facilities are placed throughout the North Campus and South Campus, providing bicycle parking within various walking distances from current land uses and transit connections (Figure 3.13-5). The overall WLA Campus contains bicycle parking infrastructure for 230 bicycles, 192 bicycles on the North Campus and 38 bicycles on the South Campus. Table 3.13-5 summarizes the bicycle parking supply.

Table 3.13-5. Bicycle Parking Supply Summary

North Campus	
South of Building 209	18
South of Building 207	6
North of Building 212	30
South of Building 116	48
Between Buildings 214 & 217	90
Subtotal	192
South Campus	
East of Building 500	7
North of Building 500	10
West of Building 500	14
Southwest Corner of Building 401	7
Subtotal	38
Total WLA Campus	230

Table 3.13-6 summarizes bicycle parking demand for the WLA Campus, which was determined through a survey on an hourly basis during the period of 8:00 a.m. to 5:00 p.m. on a typical weekday.

**Table 3.13-6. Bicycle Parking Demand Summary** 

	North Campus			South Campus			WLA Campus			
Hour Started	Supply	Demand	Occupancy	Supply	Demand	Occupancy	Supply	Demand	Occupancy	
8:00 AM	192	76	40%	38	18	47%	230	94	41%	
9:00 AM	192	92	48%	38	20	53%	230	112	49%	
10:00 AM	192	83	43%	38	23	61%	230	106	46%	
11:00 AM	192	85	44%	38	23	61%	230	108	47%	
12:00 AM	192	86	45%	38	24	63%	230	110	48%	
1:00 PM	192	85	44%	38	22	58%	230	107	47%	
2:00 PM	192	82	43%	38	21	55%	230	103	45%	
3:00 PM	192	77	40%	38	16	42%	230	93	40%	
4:00 PM	192	79	41%	38	12	32%	230	91	40%	
5:00 PM	192	79	41%	38	10	26%	230	89	39%	

Source: (Crain & Associates, 2018)

# 3.13.3 WLA Campus Transportation Study

A comprehensive transportation impact analysis for the WLA Campus was completed in August 2018 (Crain & Associates, 2018). As part of that study, existing traffic conditions were evaluated for an approximately 1.5-mile radius surrounding the WLA Campus.

The study analyzed a total of 55 intersections to determine detailed level of service (LOS) under existing (2017) traffic conditions. Of those 55 intersections, 47 were signalized intersections within the City of Los Angeles (including one intersection shared with the City of Santa Monica) and eight unsignalized intersections internal to the WLA Campus.

The study also analyzed 22 roadway segments, including 12 roadway segments that represent residential streets closest to the WLA Campus and 10 internal roadway segments within the WLA Campus. Figure 3.13-6 indicates the locations of the analyzed intersections and roadway segments.

The transportation study was prepared in accordance with the assumptions, methodologies, and procedures outlined by the following city traffic guidelines: 1) *LADOT Transportation Impact Study Guidelines* (December 2016); 2) City of Santa Monica Significance Criteria (current as of October 2016); and 3) 2010 Congestion Management Program (CMP) for Los Angeles County.

## 3.13.3.1 Data Collection

Vehicular turning movement traffic counts were conducted during the weekday a.m. and p.m. peak periods at all 55 intersections. The manual counts were conducted over the course of three days from Tuesday, October 17, 2017 to Thursday, October 19, 2017. The counts were conducted from 7:00 a.m. to 10:00 a.m. and 3:00 p.m. to 6:00 p.m. in order to determine the weekday a.m. and p.m. peak hour traffic volumes. The peak-hour volumes for each study intersection were determined on the basis of the combined four highest consecutive 15-minute traffic counts for all vehicular movements entering the intersection.

Existing average daily traffic (ADT) volumes at the 55 study intersections and 22 roadway segments were conducted in concurrence with the intersection traffic counts on Thursday, October 19, 2017.

The traffic volumes, along with information pertaining to intersection geometrics, traffic signal operations and on-street parking restrictions, were collected and analyzed using established traffic engineering techniques.

## 3.13.3.2 City of Los Angeles Intersection Analysis Methodology

For the 47 signalized intersections in the study area that correspond to the City of Los Angeles, the study used the Critical Movement Analysis (CMA) methodology required under the LADOT *Transportation Impact Study Guidelines* (December 2016). Using the CMA procedures, a determination can be made of the operating characteristics of an intersection in terms of the LOS for different levels of traffic volume and other variables, such as critical signal phases and the number and type of traffic lanes.

Under CMA methodology, LOS is reflected as volume-to-capacity ratio (V/C), where capacity is the total maximum hourly volume of vehicles in the intersection critical lanes that has a reasonable expectation of passing through the intersection under the prevailing roadway and traffic conditions. The V/C ratio is calculated by dividing the sum of the critical movement volumes by the appropriate capacity value, for the type of signal control present or proposed at the subject intersections. Table 3.13-7 shows a description of the different LOS and their corresponding V/C values.

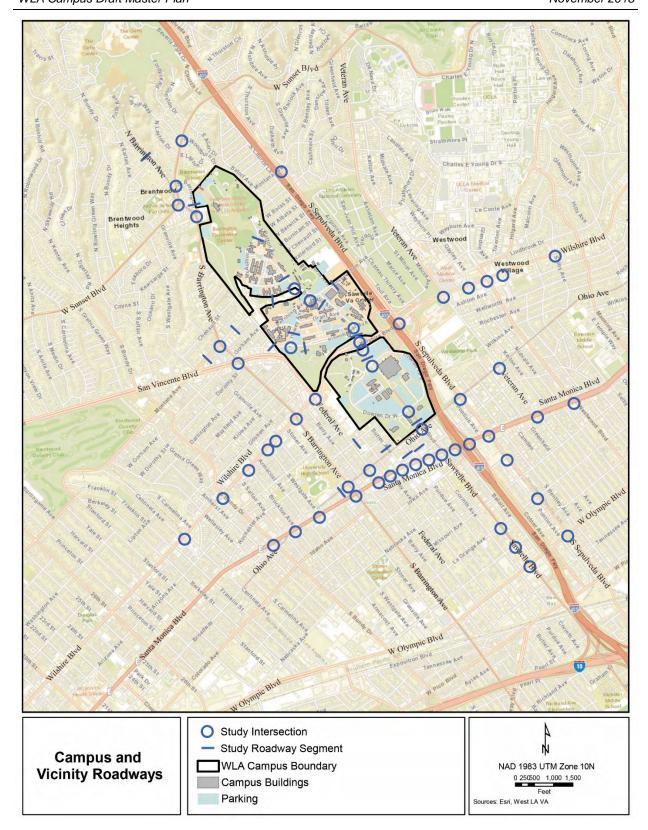


Figure 3.13-6. Study Area Intersection and Roadway Segment Locations

Table 3.13-7. LOS Criteria for Intersections as a Function of V/C Values

Level of Service	Description of Operating Characteristics	Range of V/C Ratios
Α	Excellent. No vehicle waits longer than one red light.	0.000 - 0.600
В	Very Good. An occasional approach phase is fully utilized; many drivers begin to feel somewhat restricted within groups of vehicles.	0.601 - 0.700
С	Good. Occasionally, drivers may have to wait through more than one red light; backups may develop behind turning vehicles.	0.701 - 0.800
D	Fair. Delays may be substantial during portions of the rush hour, but enough lower volume periods occur to permit clearing of developing lines, preventing excessive backups.	0.801 - 0.900
E	Poor. Represents the most vehicles that intersection approaches can accommodate; may be long lines of waiting vehicles through several signal cycles.	0.901 - 1.000
F	Failure. Backups from nearby intersections or on cross streets may restrict or prevent movement of vehicles out of the intersection approaches. Tremendous delays with continuously increasing queue lengths.	> 1.000

Source: (City of Los Angeles Department of Transportation, 2016)

Applying this analysis procedure, the V/C ratio and corresponding LOS were calculated for each study intersection for existing traffic conditions. These standard calculations are also adjusted to account for signal enhancements not considered in the CMA methodology, including the effects of intersections currently operating under the City of Los Angeles's Automated Traffic Surveillance and Control (ATSAC) system or the upgraded Adaptive Traffic Control System (ATCS).

The ATSAC/ATCS is a highly sophisticated computerized system that continually monitors traffic demand at signalized intersections within the system and modifies signal timing in real time to maximize capacity and decrease overall delay. The ATSAC system has been recognized to increase intersection capacity by approximately seven percent. The upgrade to ATCS is able to increase capacity by an additional three percent, resulting in a total 10 percent increase in intersection capacity. Therefore, per LADOT policy, the standard V/C ratios were decreased by 0.070 where only the ATSAC system is in effect and by 0.100 where the combined ATSAC+ATCS are in effect. All 47 of the signalized study intersections in Los Angeles have been upgraded with full ATSAC/ATCS signal enhancements.

# 3.13.3.3 Highway Capacity Manual Intersection Analysis Methodology

For the one signalized intersection in the study area that is shared by the City of Los Angeles and the City of Santa Monica, and the eight unsignalized study intersections internal to the WLA Campus, the study additionally applied the *Highway Capacity Manual* (HCM) operational analysis methodology, as required by the City of Santa Monica and widely used for traffic analysis. The HCM methodology takes into account signal operations thereby calculating the average delay (in seconds) that a motorist will experience in addition to V/C ratios. Specifically, this method assesses the effects of signal type, timing, phasing, and progression; vehicle mix; and geometrics on delay. LOS designations are based on the criterion of average control or signal delay per vehicle. Control or signal delay is a measure of driver discomfort, frustration, and fuel consumption, and includes initial deceleration delay approaching the

traffic signal, queue move-up time, stopped delay and final acceleration delay. Table 3.13-8 notes the intersection LOS criteria.

Table 3.13-8. LOS Criteria for Intersections as a Function of Delay

LOS	Description of Operating Characteristics	Signalized Intersection Control Delay (Seconds/Vehicle)	Unsignalized Intersection Control Delay (Seconds/Vehicle)
А	Very low control delay, most vehicles do not stop at all.	< 10.0	0 – 10
В	Relatively low control delay. However, more vehicles stop than LOS A.	>10.0 < 20.0	> 10 – 15
С	Higher control delays. Individual cycle failures may begin to appear. The number of vehicles stopping is significant at this level, although many still pass through the intersection without stopping.	>20.0 < 35.0	> 15 – 25
D	Control delay in the range where the influence of congestion becomes more noticeable. Many vehicles stop, and individual cycle failures are noticeable.	>35.0 < 55.0	> 25 – 35
Е	High control delay values. Individual cycle failures are frequent occurrences.	>55.0 < 80.0	> 35 – 50
F	High control delay values that often occur with over-saturation. Poor progression and long cycle lengths may also be major contributing causes to such delay levels	> 80.0	> 50

Source: (Transportation Research Board, 2000)

## 3.13.3.4 Existing Intersection LOS Results

For study intersections in the City of Los Angeles, 45 intersections are currently operating at LOS D or better during the weekday a.m. and p.m. peak hours, with the remaining two intersections operating at LOS E or worse during one or both peak periods. For the internal WLA Campus study intersections, all eight intersections are currently operating at LOS D or better during the weekday a.m. and p.m. peak hours. Table 3.13-9 summarizes the existing a.m. and p.m. peak hour LOS calculations for the 55 study intersections, and the results are illustrated in Figure 3.13-7.

The LOS results for intersections along Wilshire Boulevard and Santa Monica Boulevard indicate operations that are better than the level of traffic congestion drivers experiencing at these intersections. The congestion at the intersections along these corridors is related to the I-405 ramps, which create downstream blockages in the receiving lanes on both corridors with lower number of vehicles being able to pass through the intersections. Manual traffic counts only collect vehicular movements through the intersection and address if that intersection is a blockage. Therefore, due to the restrictive nature of the bottleneck associated with the freeway ramps, the actual number of vehicles entering the intersection is not indicative of the actual intersection demand.

Table 3.13-9. Existing (2017) Traffic Conditions LOS Analysis

No.	Intersection	Peak	Existing (2017) Conditions				
		Hour	V/C	Delay	LOS		
1	Centinela Avenue & A/B	AM	0.450	6.0	Α		
	Wilshire Boulevard	PM	0.567	9.6	Α		
2	Bundy Drive & <sup>B</sup>	AM	0.799	-	С		
	Wilshire Boulevard	PM	0.780	-	С		
3	Bundy Drive & <sup>B</sup>	AM	0.668	-	В		
	Santa Monica Boulevard	PM	0.734	-	С		
4	Brockton Avenue & B	AM	0.465	-	Α		
	Wilshire Boulevard	PM	0.427	-	Α		
5	Brockton Avenue & B	AM	0.429	-	Α		
	Santa Monica Boulevard	PM	0.450	-	Α		
6	Westgate Avenue & B	AM	0.439	-	Α		
	Wilshire Boulevard	PM	0.399	-	Α		
7	Westgate Avenue & B	AM	0.463	-	Α		
	Santa Monica Boulevard	PM	0.487	-	Α		
8	Granville Avenue & B	AM	0.435	-	Α		
	Wilshire Boulevard	PM	0.401	-	Α		
9	Barrington Place & B	AM	0.775	-	С		
	Sunset Boulevard	PM	0.661	-	В		
10	Barrington Avenue & B	AM	0.726	-	С		
	Sunset Boulevard	PM	0.597	-	Α		
11	Barrington Avenue &	AM	0.321	-	Α		
	Barrington Place	PM	0.336	-	Α		
12	Barrington Avenue &	AM	0.635	-	В		
	Montana Avenue	PM	0.616	-	В		
13	Barrington Avenue &	AM	0.670	-	В		
	San Vicente Boulevard	PM	0.620	-	В		
14	Barrington Avenue & B	AM	0.752	-	С		
	Wilshire Boulevard	PM	0.701	-	С		
15	Barrington Avenue &	AM	0.559	-	Α		
	Ohio Avenue	PM	0.647	-	В		
16	Barrington Avenue & B	AM	0.691	-	В		
	Santa Monica Boulevard	PM	0.613	-	В		
17	San Vicente Boulevard/Federal <sup>B</sup>	AM	0.764	-	С		
	Avenue & Wilshire Boulevard	PM	0.705	-	С		
18	Federal Avenue &	AM	0.373	-	Α		
	Ohio Avenue	PM	0.375	-	Α		
19	Federal Avenue & B	AM	0.529	-	Α		
	Santa Monica Boulevard	PM	0.423	-	Α		
20	Sunset Boulevard & B	AM	0.654	-	В		
	Woodburn Drive	PM	0.639	-	В		
21	Colby Avenue & <sup>B</sup>	AM	0.361	-	Α		
	Santa Monica Boulevard	PM	0.254	-	Α		
22	Butler Avenue & B	AM	0.385	-	Α		
	Santa Monica Boulevard	PM	0.335	-	А		
23	Purdue Avenue & B	AM	0.286	-	А		
	Santa Monica Boulevard	PM	0.193	-	А		
			1		1		

No.	Intersection	Peak	Existin	Existing (2017) Conditions				
		Hour	V/C	Delay	LOS			
24	Corinth Avenue & B	AM	0.460	-	Α			
	Santa Monica Boulevard	PM	0.313	-	Α			
25	Sawtelle Boulevard &	AM	0.708	-	С			
	Ohio Avenue	PM	0.598	-	Α			
26	Sawtelle Boulevard & B	AM	0.523	-	Α			
	Santa Monica Boulevard	PM	0.466	-	Α			
27	Sawtelle Boulevard &	AM	0.237	-	Α			
	La Grange Avenue	PM	0.289	-	Α			
28	Sawtelle Boulevard &	AM	0.319	-	Α			
	Mississippi Avenue	PM	0.436	-	Α			
29	Sawtelle Boulevard & B	AM	0.773	-	С			
	Olympic Boulevard	PM	0.760	-	С			
30	Beloit Avenue/I-405 Southbound	AM	0.923	-	Е			
	Ramps <sup>B</sup> & Santa Monica Boulevard	PM	0.750	-	С			
31	Cotner Avenue/I-405 Northbound	AM	0.649	_	В			
0.	Ramps <sup>B</sup> & Santa Monica Boulevard	PM	0.569	_	А			
32	Sepulveda Boulevard &	AM	0.706	_	C			
02	Montana Avenue	PM	0.628	_	В			
33	Sepulveda Boulevard &	AM	0.454	-	A			
00	Constitution Avenue	PM	0.607	_	В			
34	Sepulveda Boulevard & B	AM	0.712	_	C			
<b>0</b> 4	Wilshire Boulevard	PM	0.848	_	D			
35	Sepulveda Boulevard &	AM	0.787	_	C			
00	Ohio Avenue	PM	0.815	_	D			
36	Sepulveda Boulevard & B	AM	0.837	_	D			
00	Santa Monica Boulevard	PM	0.740	_	C			
37	Sepulveda Boulevard &	AM	0.338	_	A			
01	Nebraska Avenue	PM	0.438	_	A			
38	Sepulveda Boulevard &	AM	0.365	_	A			
00	La Grange Avenue	PM	0.472	_	A			
39	Sepulveda Boulevard & B	AM	0.873	-	D			
00	Olympic Boulevard	PM	0.898	_	D			
40	Veteran Avenue & B	AM	0.740	_	C			
10	Wilshire Boulevard	PM	0.693	-	В			
41	Veteran Avenue &	AM	0.683	_	В			
71	Ohio Avenue	PM	0.691	_	В			
42	Veteran Avenue & B	AM	0.621	_	В			
72	Santa Monica Boulevard	PM	0.750	_	C			
43	Gayley Avenue & B	AM	0.756	_	C			
.0	Wilshire Boulevard	PM	0.691	_	В			
44	Westwood Boulevard & B	AM	0.715	_	C			
	Wilshire Boulevard	PM	0.637	_	В			
45	Westwood Boulevard & B	AM	0.939	_	E			
70	Santa Monica Boulevard	PM	0.915	-	E			
46	Glendon Avenue & B	AM	0.628	_	В			
40	Wilshire Boulevard	PM	0.705	_	С			
		FIVI	0.700	1				

No.	Intersection	Peak	Existing (2017) Conditions				
		Hour	V/C	Delay	LOS		
47	Selby Avenue & <sup>B</sup>	AM	0.538	-	Α		
	Wilshire Boulevard	PM	0.672	-	В		
48	Dewey Avenue & <sup>C</sup>	AM	-	6.9	А		
	Eisenhower Avenue	PM	-	7.0	А		
49	Bonsall Avenue & C	AM	-	8.4	Α		
	Nimitz Avenue	PM	-	8.4	А		
50	Bonsall Avenue & C	AM	-	9.2	Α		
	Pershing Avenue	PM	-	9.3	А		
51	Bonsall Avenue & C	AM	-	10.2	В		
	Eisenhower Avenue	PM	-	12.6	В		
52	Bonsall Avenue & C	AM	-	10.3	В		
	Wilshire Boulevard Westbound Ramps	PM	-	13.8	В		
53	Bonsall Avenue & C	AM	-	12.0	В		
	Wilshire Boulevard Eastbound Ramps	PM	-	19.3	С		
54	Bonsall Avenue & C	AM	-	9.3	А		
	Dowlen Drive	PM	-	10.0	В		
55	Sawtelle Boulevard & C	AM	-	13.7	В		
	Dowlen Drive	PM	-	8.9	Α		

#### Notes:

Source: (Crain & Associates, 2018)

a - Intersection shared between the cities of Los Angeles and Santa Monica.

b - Due to issues with upstream blockages, intersections along Santa Monica Boulevard, Wilshire Boulevard, Sunset Boulevard, and Olympic Boulevard were evaluated using a stricter significance impact threshold. A project-related V/C increase equal to or greater than 0.01 was applied regardless of LOS. This threshold does not apply to the Wilshire Boulevard ramps on the VLA Campus. These are not mainline intersections.

 $<sup>\</sup>ensuremath{\text{c}}$  - WLA Campus intersection, unsignalized.

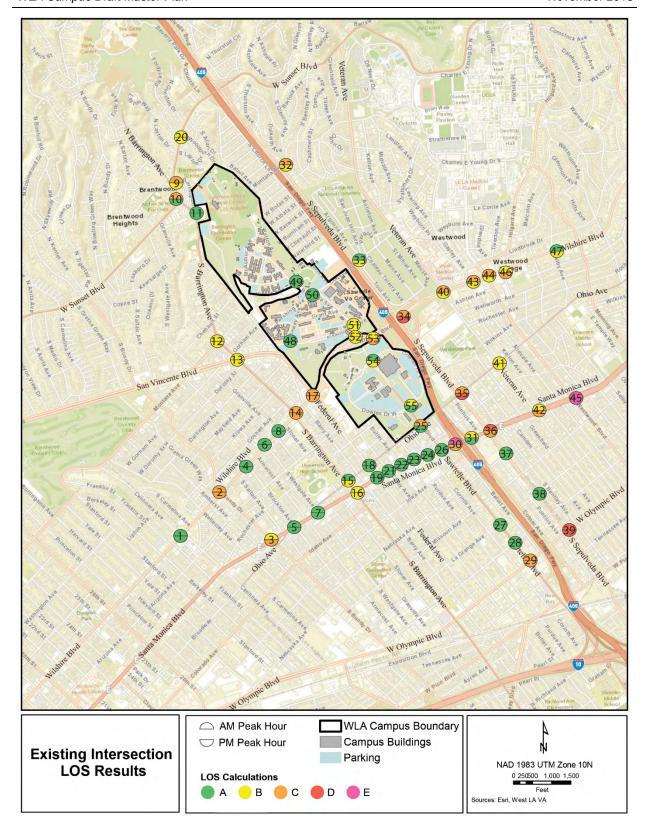


Figure 3.13-7. Existing Intersection LOS Results

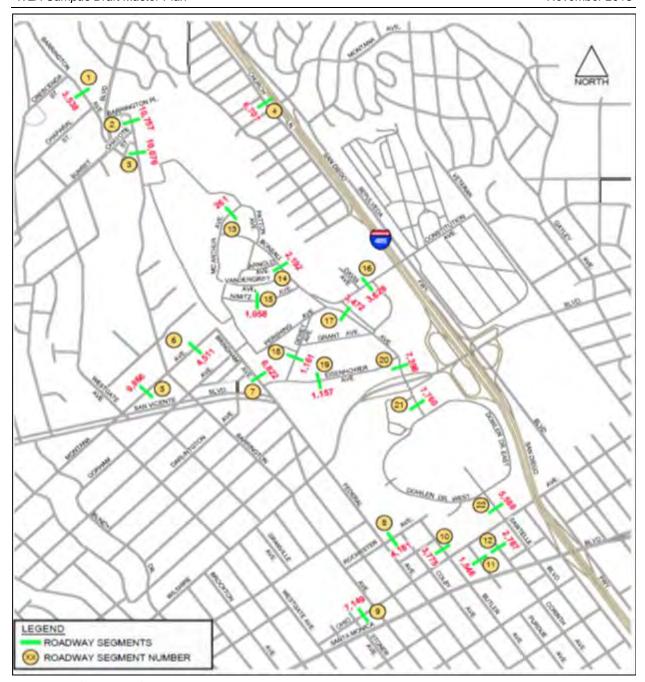
# 3.13.3.5 Existing Roadway Segments Traffic Volumes

The existing average daily traffic (ADT) volume counts for 22 roadway segments were conducted in concurrence with the intersection traffic counts. Figure 3.13-8 depicts the roadway segments traffic counts.

Table 3.13-10. Existing (2017) Roadway Segments Traffic Counts Summary

No.	Roadway Segment	ADT (2017)
1	Barrington Ave between Crescenda St & Chaparal St	3,538
2	Barrington Place between Sunset Blvd & Chayote St	10,757
3	Barrington Place between Barrington Ave & Chayote St	10,076
4	Church Lane between Elderwood St & Montana Ave	6,707
5	Montana Ave between Westgate Ave & Barrington Ave	9,866
6	Montana Ave between Barrington Ave & Bringham Ave	4,511
7	Bringham Ave between Darlington Ave & San Vicente Ave	6,822
8	Rochester Ave between Federal Ave & Colby Ave	4,181
9	Ohio Ave between Stoner Ave & Barrington Ave	7,149
10	Butler Ave between Wyoming Ave & Ohio Ave	3,775
11	Purdue Ave between Ohio Ave & Santa Monica Blvd	1,546
12	Corinth Ave between Massachusetts Ave & Ohio Ave	2,787
13	Patton Ave north of Bonsall Ave	261
14	Bonsall Ave between Arnold Ave & Vandergrift Ave	2,192
15	Nimitz Ave between MacArthur Ave & Bonsall Ave	1,058
16	Constitution Ave east of Davis Ave	3,629
17	Bonsall Ave between Pershing Ave & Grant Ave	3,472
18	Dewey Ave between Eisenhower Ave & Grant Ave	1,161
19	Eisenhower Ave between Dewey Ave & Bonsall Ave	1,157
20	Bonsall Ave between Eisenhower Ave & Wilshire Blvd Westbound Ramps	7,398
21	Bonsall Ave between Wilshire Blvd Eastbound Ramps & Dowlen Dr	7,760
22	Sawtelle Blvd between Dowlen Dr & Ohio Ave	5,588

Source: (Crain & Associates, 2018)



Source: (Crain & Associates, 2018)

Figure 3.13-8. Existing (2017) Traffic Conditions Roadway Segment Traffic Counts

# 3.13.3.6 Bicycle and Pedestrian Volumes

Table 3.13-11 shows the existing peak-hour bicycle and pedestrian volumes for the intersections located within the WLA Campus.

No. Intersection Peak **Bicycle** Pedestrian Period Volumes Volumes 48 Dewey Avenue & Eisenhower Avenue AM 15 15 PM 7 13 Bonsall Avenue & Nimitz Avenue AM 8 49 1 PM 10 3 Bonsall Avenue & Pershing Avenue AM 8 50 1 PM 24 1 Bonsall Avenue & Eisenhower Avenue AM 17 51 17 PM 14 13 Bonsall Avenue & Wilshire Boulevard 44 ΑM 52 29 Westbound Ramps PM46 15 Bonsall Avenue & Wilshire Boulevard AM 101 53 21 Eastbound Ramps PM 92 10 54 Bonsall Avenue & Dowlen Drive AM 43 18 PM 48 8 Sawtelle Boulevard & Dowlen Drive AM 20 55 13 PM 30 5

Table 3.13-11. WLA Campus Bicycle and Pedestrian Volumes

Source: (Crain & Associates, 2018)

## 3.14 Utilities

This describes the regulatory and policy framework and the existing conditions for utilities at the WLA Campus. Utilities are defined as services provided to the public, often but not always distributed by community-wide infrastructure. Specific utilities on the WLA Campus identified and evaluated in this PEIS are water, sanitary sewer, stormwater, electrical, heating (natural gas and steam), and communications (telephone and data).

# 3.14.1 Regulatory and Policy Framework

## **3.14.1.1 Energy Policy Act of 2005**

Through a variety of mandates, the Energy Policy Act of 2005 (EPAct 2005; Pub.L. 109-58) seeks to reduce energy-related environmental effects and reliance on nonrenewable energy resources, encourage long-term economic growth, and enhance U.S. energy security. EPAct 2005 established several goals and standards to reduce energy use in new and existing federal buildings. Section 109 requires new federal buildings to be designed 30 percent below American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) standards or the International Energy Conservation Code (IECC). EPAct 2005 also required federal facilities to apply sustainable design principles to new and replacement buildings. Federal agencies are permitted to retain savings achieved through energy and water reductions.

## 3.14.1.2 Energy Independence and Security Act

Section 431 of EISA increased the existing federal energy reduction goal from two percent (as established by EPAct 2005) to three percent per year, with a result of 30 percent efficiency by FY 2015. The reporting baseline for energy savings is 2003; therefore, energy consumption per gross square foot for

federal buildings is reduced in comparison to 2003 values. In addition, EISA directed federal agencies to purchase Energy Star and Federal Energy Management Program (FEMP)-designated products; and required new federal buildings to be built 30 percent below American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) standards or the IECC.

# 3.14.1.3 EO 13834, Efficient Federal Operations

In May 2018, EO 13834, *Efficient Federal Operations*, was announced with the intent that federal agencies meet statutory requirements and prioritize actions to increase efficiency, reduce waste, provide cost savings, enhance the resilience of federal infrastructure and operations, and enable each Agency to more effectively achieve its mission. EO 13834 rescinded EO 13693.

## 3.14.1.4 California Porter-Cologne Water Quality Control Act

As described in Section 3.5.1.2, California Porter-Cologne Water Quality Control Act, the Act (California Water Code § 13000 et seq.) is the primary law governing water quality regulation in the state. The Act establishes a water protection program and beneficial uses of water, applicable to surface waters, wetlands, and groundwater and to both point and nonpoint sources of pollution. The Act established the California Water Code that authorizes the SWRCB to implement the CWA through nine RWQCBs. Each RWQCB is required to develop water quality control standards (e.g., beneficial uses, water quality objectives and criteria) for all areas within their region for surface and groundwater. RWQCBs are responsible for regulating surface and groundwaters (e.g., inspections, enforcement actions) and establishing requirements for water discharge, including nonpoint sources, within their region.

# 3.14.1.5 Local Planning, Zoning, and Development Laws

The Los Angeles County Flood Control Act, enacted in 1915, established the Los Angeles County FCD and authorized it to provide flood protection, water conservation, recreation, and aesthetic enhancement within its boundaries. The Los Angeles County DPW *Hydrology Manual* to govern the design of storm drain facilities and flood protection, and limit allowable discharges (i.e., TMDLs) into existing storm drains (Los Angeles County Department of Public Works, 2018b).

# 3.14.1.6 U.S. Department of Veterans Affairs Strategic Sustainability Performance Plan

The U.S. Department of Veterans Affairs *Strategic Sustainability Performance Plan* (SSPP) was prepared in response to EO 13693, *Planning for Federal Sustainability in the Next Decade*, requiring federal agencies to develop, implement, and annually update an integrated SSPP to, among other requirements, specific agency strategies to accomplish each of the various EO goals. The VA SSPP provides approaches to addressing sustainability goals for a variety of resource areas, including energy and water conservation and alternative fuels, for VA facilities.

## 3.14.1.7 Department of Veterans Affairs Design Manuals

VA's *Site Development Design Manual* was developed for the planning and design of all VA facilities, including site layout, parking, traffic, stormwater management, utilities, and landscaping.

The VA Steam, Heating Hot Water, and Outside Distribution Systems Design Manual provides VA requirements on the quantity, capacity, arrangement, and standby capability of the boilers and auxiliary equipment. This manual applies to the design of new boilers, boiler replacement, and modification of existing boilers, in all climates.

The VA *Telecommunications and Special Telecommunications Systems Design Manual* provides VA's minimum requirements to provide telecommunications engineers and designers essential information needed for the planning and design of Office of Information and Technology (OI&T), Facilities Management Service (FMS) and Emergency Management and Resilience (OSP) Special Telecommunications Systems vital for OSP, FMS, and OI&T physical locations and interfaces in all VA facility projects.

#### 3.14.2 Current Conditions

The WLA Campus facilities and utility infrastructure have an operational history dating back over 100 years. Portions of the original facilities and utility infrastructure are still in use or vacant but subject to reactivation. In numerous instances, the current operations of an older facility are quite different from the original design or intended use. Owing to limited historical as-built engineering records, reconciling decades of operational changes at the facility level over the past 100 years is often difficult or impossible (Leo A. Daly, 2017). A conditions assessment of the WLA Campus utility systems (water, sewer, electrical, natural gas, steam, and telecommunication) was conducted in spring 2018 (Booz Allen Hamilton, 2018d) to review available WLA Campus engineering records, conduct interviews with VA engineering staff, perform field engineering inspections, and compile meter reading and other data collection. The WLA Campus includes several leased facilities such as Heroes Golf Course, Breitburn (an oil drilling operation), Brentwood School, and the Jackie Robinson baseball field. In most cases, these leased facilities do not have separate, dedicated submeters, and therefore are part of the current conditions analysis. Where data was limited or unavailable, modeling was used to estimate expected demand.

## **3.14.2.1 Water Supply**

The Los Angeles Department of Water and Power (LADWP) supplies water to the greater Los Angeles region. The total annual water sales to all LADWP customers was 167 billion gallons during FY 2014-2015, the most recent LADWP reporting period available. The water supply comes from four main water sources: 29 percent from the Los Angeles Aqueduct, which is supplied from the Eastern Sierra Nevada mountains; 57 percent from purchased water from the Bay Delta (48 percent) and Colorado River (9 percent); 12 percent from the San Fernando, Sylmar, Eagle Rock, Central, and West Coast groundwater basins; and two percent from recycled water (Los Angeles Department of Water and Power, 2013).

Domestic water is supplied to the WLA Campus by service connections to the LADWP municipal water system. Domestic water is used to feed both general water consumption (including for facility use and irrigation) and the fire suppression system on the WLA Campus. LADWP provides two domestic water main lines serving the WLA Campus, a 12-inch water main line for the North Campus and a 10-inch water main line for the South Campus (Figure 3.14-1). There is a third connection from San Vicente Boulevard near Wilshire Boulevard.

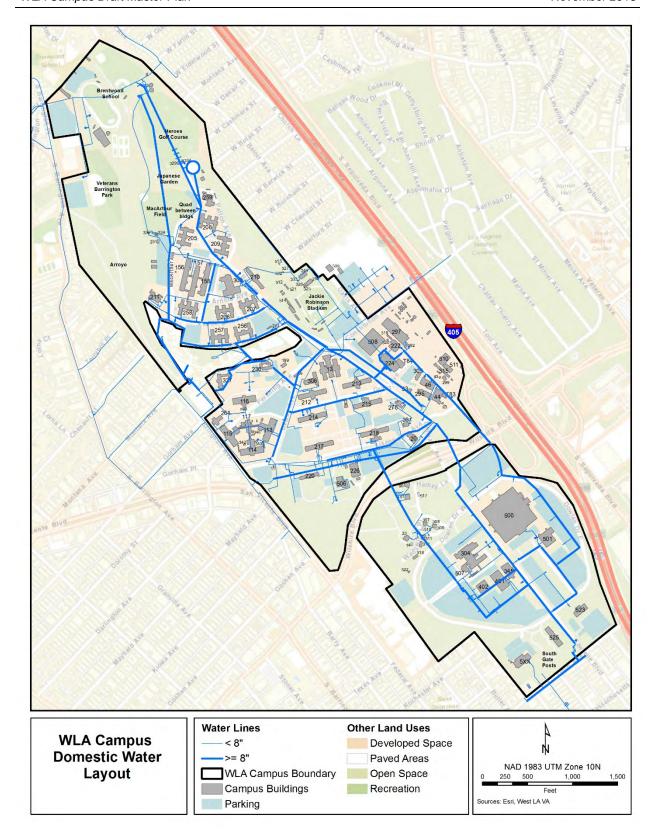


Figure 3.14-1. WLA Campus Domestic Water Layout

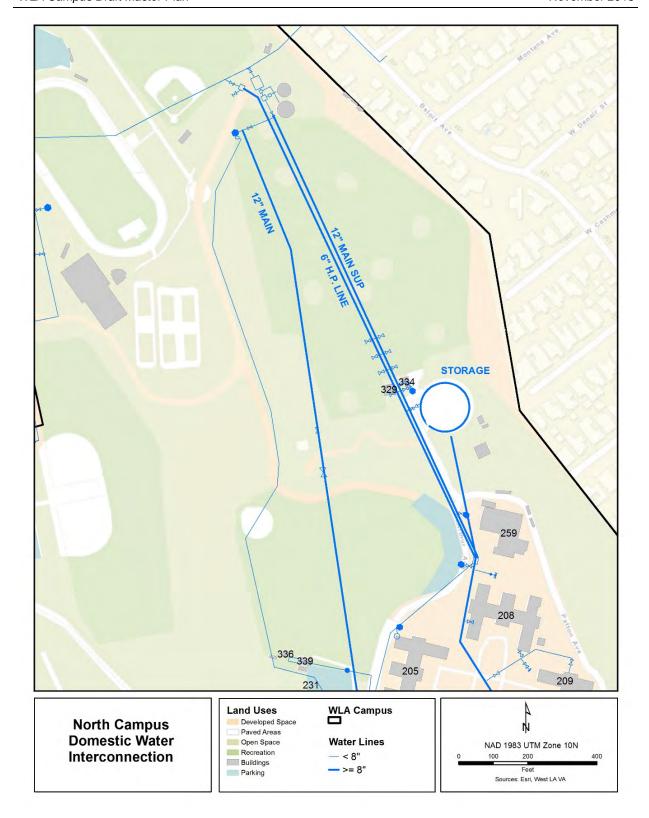


Figure 3.14-2. North Campus Domestic Water Interconnection

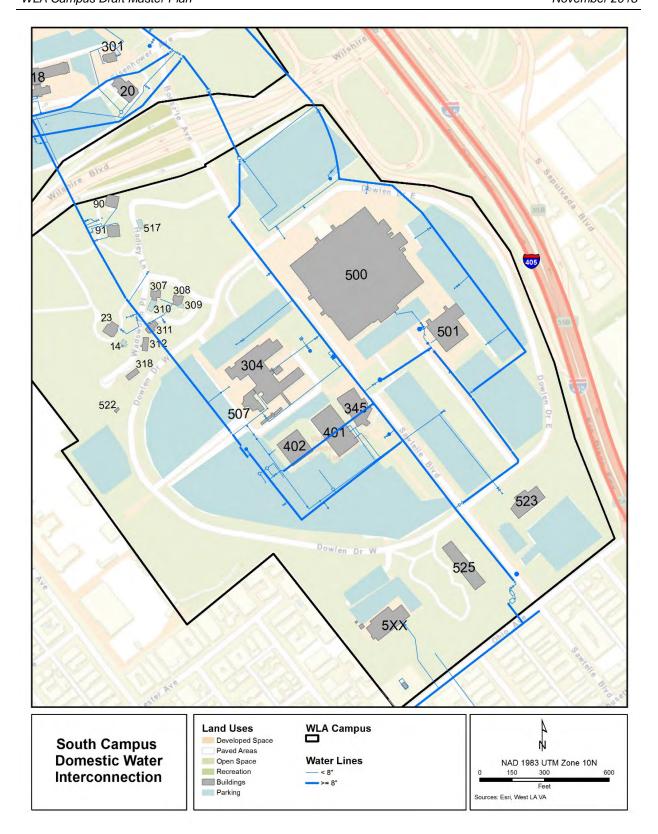


Figure 3.14-3. South Campus Domestic Water Interconnection

The North Campus connection, known as the Brentwood connection, is located at the northern boundary adjacent to Brentwood School. This LADWP-metered water main distributes water through three branch supply lines (two 8-inch lines and one 12-inch line) within the WLA Campus. Collectively, these branch lines provide domestic water for campus-wide usage. The Brentwood connection can directly replenish VA's adjacent 800,000-gallon distribution storage tanks or bypass the tanks and provide direct service to the VA system (Figure 3.14-2). The South Campus is served by the North Campus supply branches extending under Wilshire Boulevard (Figure 3.14-3). The South Campus connection is located in the southern boundary adjacent to Sawtelle Boulevard and Ohio Avenue through three LADWP metered branch lines.

The service connection at Sawtelle Boulevard and Ohio Avenue is a 10-inch "fireline" service and meter, and virtually 100 percent of the WLA Campus' domestic water is provided from the North Campus connection (Leo A. Daly, 2017) (Booz Allen Hamilton, 2018d). Material of construction for the main portions of the domestic water piping system are cement-lined ductile cast iron pipes, which were installed during construction in 1989. It is expected that the more recently developed sites utilized the same materials of construction (Booz Allen Hamilton, 2018d).

Based on LADWP monthly utility bills, Table 3.14-1 summarizes the WLA Campus domestic water consumption for FY 2015-2017. For the three-year period, average monthly water consumption was 38,163 hundred cubic feet (HCF) for 2015, 31,387 HCF for 2016, and 32,069 HCF for 2017. This water consumption equates to 342.6 million gallons (M gal) for 2015, 281.7 M gal in 2016, and 287.9 M gal in 2017. In addition to domestic use and consumption, the WLA Campus uses water for sprinklers on the campus grass, golf course, athletic fields, and gardens. Based on typical water use, the 9-hole, par 3 Heroes Golf Course was estimated to use approximately 5 M gal of water per year (PowerSurety, 2018a). Jackie Robinson Stadium can be expected to use approximately 2.7 M gal of water per year (PowerSurety, 2018b).

Table 3.14-1. WLA Campus Domestic Water Consumption (HCF)

	FY 2015 (HCF)	FY 2016 (HCF)	FY 2017 (HCF)
October	51,982	15,229	28,796
November	45,533	13,195	30,362
December	42,831	27,654	20,459
January	28,565	27,654	64,897
February	37,062	22,768	22,239
March	4,368	22,597	16,732
April	66,038	36,459	24,896
May	44,370	88,866	30,059
June	35,697	32,890	33,586
July	34,171	33,449	34,270
August	36,477	28,599	39,083
September	30,865	27,280	39,449
Average Monthly Consumption (HCF)	38,163	31,387	32,069
Average Monthly Consumption (M gal)	28.5	23.5	24
Annual Consumption (M gal)	342.6	281.7	287.9

Source: (Booz Allen Hamilton, 2018e)

The WLA Campus-owned portion of the domestic water system infrastructure is over 50 years old; however, the main drinking water lines are in good condition. The 12-inch water main that runs north-south and interconnects the North and South Campus was replaced within the last 15 years. Lateral and branches to building service entrances range in age from 10 to 50 years old and were generally constructed as sites were developed or major upgrades occurred. All domestic water mains and large diameter laterals have sufficient capacity and capability to support the present load and have capacity for additional growth based on domestic use (Booz Allen Hamilton, 2018d). Standard O&M will be needed on the system as it degrades over time.

Inadequate building-level water pressure has been noted at certain buildings or facilities. Water pressures typically vary based on numerous conditions including elevation of the building and/or floor, location of the building along a supply line, and the load/demand requirements of a building. Low pressure issues within the North Campus have been noted at Buildings 156, 157, 159, 205, 208, 240, 259, and 300 (Leo A. Daly, 2017).

Limited data was available for the existing WLA Campus fire system. Fire suppression system monthly fire pump tests for Buildings 116, 205, 206, 207, 208, 210, 258, and 501 indicate the systems passed with no issues or concerns (U.S. Department of Veterans Affairs, 2018h). A majority of the buildings throughout the WLA Campus are provided with fire sprinklers for fire protection. The WLA Campus domestic water distribution main system is used to provide fire sprinkler water demands with a common water line typically provided to each building. The common water line is separated into both fire water and domestic water as the common line approaches a building. The fire water line and domestic water line are then equipped with isolation valves and backflow preventers to protect the campus water distribution system from contamination (Leo A. Daly, 2017).

## 3.14.2.2 Sanitary Sewer System

Wastewater treatment for the WLA Campus is provided through contracted services from LADWP. LADWP maintains a wastewater partnership with the City of Los Angeles Sanitation (LASAN), as the Los Angeles region public works entity responsible for sanitation operations. The LASAN system includes integrated operation of over 6,700 miles of sewer line piping, four city water reclamation plants, and 49 pumping stations with a combined capacity to treat 580 million gallons per day (mgd) of wastewater (LA Sanitation, n.d.).

Sanitary sewer infrastructure configuration for the WLA Campus provides gravity conveyance of wastewater through underground sewer pipes from buildings supplied by tributary water connections (Figure 3.14-4). Wastewater from the North Campus is conveyed through three major sanitary sewer lines that extend to the South Campus and pass under Wilshire Boulevard. One 8-inch sewer line serving the North Campus extends southwards under Wilshire Boulevard onto South Campus. Two additional sewer lines from the North Campus convey wastewater in parallel through 18-inch and 24-inch lines originating at Wilshire Boulevard and I-405. These parallel lines also extend under Wilshire Boulevard to South Campus from the northeast (Leo A. Daly, 2017). These parallel lines were recently upgraded as part of the I-405 project (Booz Allen Hamilton, 2018d).

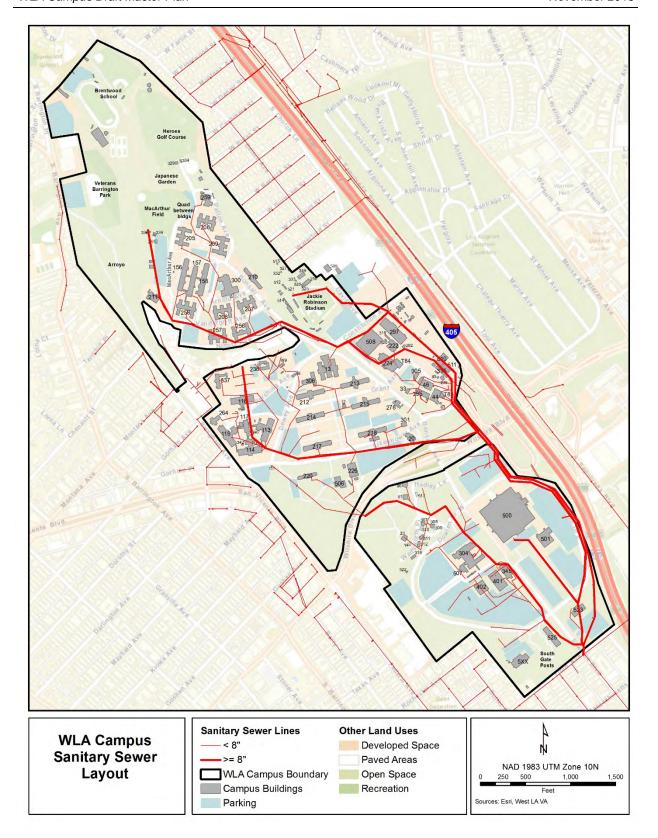


Figure 3.14-4. WLA Campus Sanitary Sewer Layout

The WLA Campus wastewater system has multiple tributary connections to these on-site sewer main lines. The main lines collect and converge the wastewater with a final connection to the LASAN's sewer system at a manhole located on the southern boundary adjacent to Ohio Avenue and Sawtelle Boulevard (Leo A. Daly, 2017). Sanitary sewer piping material of construction varies depending on age and diameter. The smaller diameter (12-inch or smaller) branch lines and building interconnects located on the North Campus consist of clay pipe. Some buildings, like Building 208, have a PVC building connection that transitions to the original clay pipe branch line, likely the result of a building upgrade. The general direction of flow is based on relative elevation difference between the northern and southern areas of the WLA Campus as the higher elevation of the North Campus provides gravitational flow of wastewater to the lower elevations of the South Campus (Figure 3.4-2).

Table 3.14-2 shows flow rates from the sewer water monitoring station in the parking lot adjacent to Building 523 (Leo A. Daly, 2017). Average flow of 314 gallons per minute (gpm) equates to 165.2 M gal per year (Booz Allen Hamilton, 2018d), about 58 percent of water demand. The demand is generally low, and significantly lower than the 95 percent design standard (U.S. Department of Veterans Affairs, 2013). Given the high levels of irrigation, including approximately 5 M gallons of water per year for the 9-hole Heroes Golf Course (PowerSurety, 2018a) and 2.7 M gallons of water per year for the Jackie Robinson Stadium (PowerSurety, 2018b), lower levels of sanitary flow when compared to water inflow would be expected.

Table 3.14-2. Average Monthly Sewer Combined Sewer Flows

		Average Flow
Year	Month	(gpm)
2015	July	378
2015	August	362
2015	September	357
2015	October	370
2015	November	326
2015	December	332
2016	January	350
2016	February	357
2016	March	317
2016	April	305
2016	May	232
2016	June	234
2016	July	206
2016	August	274
Average Flow (gpm)		314
Average Flow (M gal per year)		165.2

Source: (Leo A. Daly, 2017)

Most of the existing sewer main lines that serve existing structures on the WLA Campus were constructed in the early to mid-1900s. The existing 8-inch and 12-inch sewer lines were constructed before 1937 (except for the recently relocated portion). Aside from the recently modified sewer mains, much of the system is in poor condition. Lines vary in age from 10 years to over 80 years old with their condition in good, fair, and poor for the older lines (Booz Allen Hamilton, 2018d). Many of the sanitary sewer mains,

branches, and laterals either exceed design capacity or are near their limits, with age and condition the primary causes for concern (Booz Allen Hamilton, 2018d). The main north-south sewer line running under Wilshire Boulevard is over 50 percent of its design capacity when adjusted for age and condition; the main lines between Buildings 508 and 256 and Buildings 217 and 116 exceed their capacity when similarly adjusted for age and condition (Booz Allen Hamilton, 2018d). Furthermore, a 2012 sewer report notes cracks in pipes, root blockages, roots in lines, bellying of lines, and debris in sewer lines, as well as other issues (SWS Engineering & Surveying, Inc., 2012). No written documentation is available to determine if these issues were corrected. There are also existing abandoned sewer lines in various locations throughout the WLA Campus (Leo A. Daly, 2017). A Phase 2 Site Utility Assessment is currently underway for the WLA Campus to further assess the location and condition of the sewer lines.

# 3.14.2.3 Stormwater Management System

The WLA Campus is located in the Los Angeles Basin as designated by the Los Angeles RWQCB (LARWQCB, 2014). In some areas of the Los Angeles RWQCB, stormwater and urban runoff are transported via natural systems (e.g., streams, riparian corridors, wetlands), while the remaining portion of Los Angeles County utilizes a storm drain network owned and maintained primarily by the Los Angeles County FCD. The Los Angeles County FCD oversees more than 2,700 square miles and approximately 2.1 million land parcels within six major watersheds. The FCD authority includes drainage infrastructure within 86 incorporated cities as well as the unincorporated county areas covering 14 major dams and reservoirs, 483 miles of open channel, 27 spreading grounds, 3,330 miles of underground storm drains, 47 pump plants, 172 debris basins, 27 sediment placement sites, three seawater intrusion barriers, and an estimated 82,000 catch basins. In 1984, the Los Angeles County FCD entered into an operational agreement with the Los Angeles County DPW to transfer planning and operational activities to DPW (Los Angeles County Department of Public Works, 2018b).

Sewage is not allowed to enter the storm drain system. In the City of Los Angeles, gutters convey stormwater to storm drain inlets, which lead to an underground drainage network that empties into constructed channels or streams and creeks flowing into wetlands, lakes, or flood control basins. Large channelized flows outfall into rivers that discharge into harbors or the Pacific Ocean (City of Los Angeles Department of Public Works, 2009). A majority of stormwater outfalls discharge into the Santa Monica Bay, resulting in an average of 30 billion gallons of stormwater and urban runoff each year (LARWQCB, 2011). The Los Angeles County FCD works with cities and related agencies that have jurisdiction over land use to reduce and treat urban runoff to meet Los Angeles RWQCB water quality standards (Los Angeles County Department of Public Works, 2017a).

The existing storm drain system for the WLA Campus is over 80 years old and, in some areas, over 95 years old (U.S. Department of Veterans Affairs, 2016a). All systems are either part of the original WLA Campus construction or were part of the a phased-in site development. The general condition of the system is good (Booz Allen Hamilton, 2018d). Impervious surfaces cover approximately 145 acres (37 percent) of the WLA Campus.

The North Campus existing storm drain system consists primarily of three separate drainage areas based on the topography of the site. During storm events, stormwater within the upper northern portion of the WLA Campus drains to the arroyo, where it is conveyed to an off-site culvert that continues south to Bringham Avenue (Figure 3.14-5).

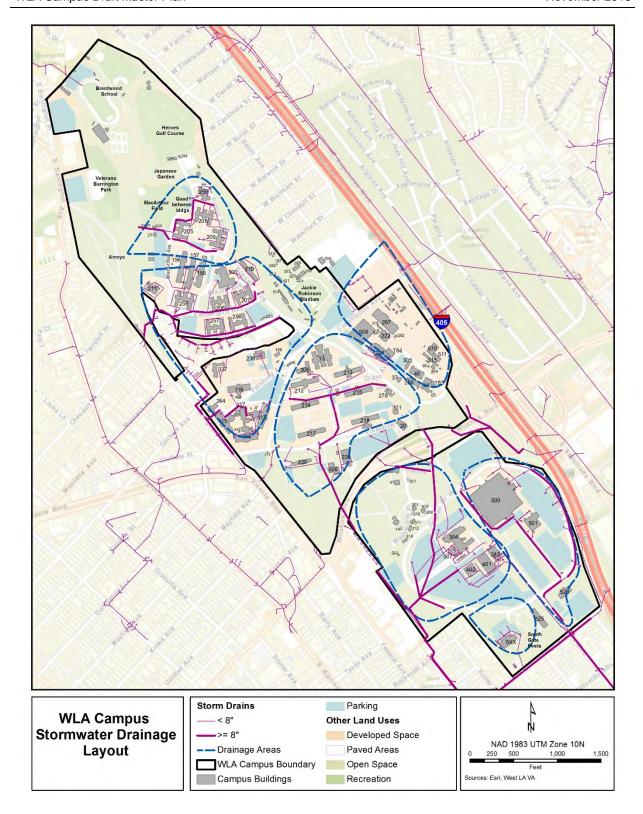


Figure 3.14-5. WLA Campus Stormwater Drainage Layout

In addition to the outfall from the Brentwood School site, off-site stormwater enters the northeastern corner of the WLA Campus near Waterford Street from the adjacent residential neighborhood. The drainage area for the remaining North Campus is divided by a slight ridgeline that follows the majority of Bonsall Avenue. For the middle and southwestern portions of the northern WLA Campus (west of Bonsall Avenue), the area is mostly urbanized and covered with impervious surfaces, and stormwater runoff is collected by various storm drains inlets. This drainage system flows toward the southwestern corner of Wilshire Boulevard and San Vicente Boulevard, across Wilshire Boulevard, continuing through the South Campus, and into the Los Angeles County flood control system. For the eastern side of the North Campus (east of Bonsall Avenue), stormwater flows southeast towards I-405 and Wilshire Boulevard and into the Los Angeles County flood control system. Additionally, two open channel concrete drainage structures collect on-site stormwater for the east side of the WLA Campus, which are piped under Wilshire Boulevard and through the South Campus. Storm drain inlets are also present along Bonsall Avenue that collect and transport water under Wilshire Boulevard and through the South Campus. The South Campus is covered primarily by impervious surfaces; stormwater runoff is conveyed into multiple storm drains that flow southwest off site into the Los Angeles County Flood Control system (Leo A. Daly, 2017) (Los Angeles County Department of Public Works, 2017b) (U.S. Department of Veterans Affairs, 2016a).

The South Campus storm drain infrastructure consists of two main systems (Figure 3.14-5). One system enters the site from the North Campus at Wilshire Boulevard and Bonsall Avenue and flows in the southwest direction to a 42-inch pipe owned by the Los Angeles County FCD directly west of the campus. The eastern portion of the South Campus flows south and connects to a Los Angeles County FCD owned 42-inch reinforced concrete pipe (RCP) along Ohio Avenue at Sawtelle Avenue. Both systems eventually flow to Ballona Creek and discharge into the Pacific Ocean at Marina Del Ray. In addition to these two main systems, a small tributary area in the southwest portion of the South Campus drains south to a 12-inch RCP that joins the Los Angeles County FCD 42-inch RCP along Ohio Avenue. Stormwater for the entire site is conveyed to the Los Angeles County Flood Control system, located west and south of the WLA Campus, which flows into Sepulveda Channel, found on the eastern side of I-405, and empties into Ballona Creek (Leo A. Daly, 2017).

The general condition of the stormwater system is good. However, the stormwater leg located to the south and west of Buildings 214 and 215, which collects stormwater from a large portion of the North Campus, exceeds the load carrying capability of the 10-inch stormwater drain as currently shown in asbuilts (Booz Allen Hamilton, 2018d). In addition, the following storm drains when reviewed for existing capacity during 10-year and 50-year storm events were noted as follows:

- For the storm drain system located at Ohio Avenue and Sawtelle Avenue, which has a flow capacity of 128 cubic feet per second (cfs), the existing condition of the system capacity is sufficient for the 10-year storm event with an expected flow discharge of 74 cfs and the 50-year storm event with an expected flow discharge of 91 cfs.
- For the storm drain system located at Colby Avenue and Rochester Avenue, which has a flow capacity of 153 cfs, the existing condition of the system capacity is sufficient for the 10-year storm event with an expected flow discharge of 128 cfs but is exceeded for the 50-year storm event with an expected flow discharge of 214 cfs.

• For the storm drain system located at Ohio Avenue and Purdue Avenue, which has a flow capacity of 147 cfs, the existing condition of the system is sufficient for the 10-year storm event with an expected flow discharge of 87 cfs but could be an issue in the 50-year storm event with an expected flow discharge of 131 cfs (Leo A. Daly, 2017).

# 3.14.2.4 Electrical Supply

Electrical service for the WLA Campus is provided by Southern California Edison (SCE). SCE annually delivers more than 87 billion kilowatt hours (kWh) of electricity to 15 million people through a massive electrical infrastructure that spans 180 incorporated cities, 15 counties, and 50,000 square miles of service area (Southern California Edison, 2018). The WLA Campus receives electrical service from the SCE power grid with electrical circuits stemming from the Sawtelle main power substation located on Ohio Street at the southern edge of the WLA Campus with medium voltage utility interconnections at 11 metered account service connections within the campus (Figure 3.14-6) (Leo A. Daly, 2017). The Sawtelle substation has four circuits (Nimitz, Patton, Federal, and Purdue). Nimitz and Patton are routed to Building 501 to a power pole in Parking Lot 42. Three service substations are located on the WLA Campus: Substation #1 at Building 501, Substation #2 near Building 299, and Substation #3 within an independent enclosure next to Building 5XX (Table 3.14-3).

From the power pole at Parking Lot 42, two SCE 15KV circuits are routed to Substation #1 transformers and switchgear. There are six-unit substations in Buildings 500 and 501, two of which are loop fed and four are radial fed. The total allowable utility power capacity at this substation is 4.39 megawatts (MW). Buildings 304, 345, 402, and 507 are directly powered through the Sawtelle substation through SCE feeders underground, yet this information needs to be verified due to lack of records (Leo A. Daly, 2017). Substation #2 provides power to the North Campus via eight circuits connected to the switchgear. The total demand load on Substation #2 from meter readings is 6.2 MW but could be as high as 12 MW if all buildings on the North Campus were in operation. Substation #3 is located on the South Campus and provides power to Buildings 402, 523, and 525, and the total capacity of this substation is unknown. Additionally, multiple solar photovoltaic (PV) systems are located within the WLA Campus (see Section 3.14.2.5, Solar). These solar PV systems operate with sub-metered, grid-tied interconnections to the SCE distribution system. Major loads at the WLA Campus include the industrial kitchen (Building 306), the cyclotron (Building 345), VA main hospital (Building 500), and the chilled water plant (Building 501) (Silver, 2018).

Table 3.14-3. WLA Campus Electrical Substation Age and Condition

Component	Age	Condition
Sawtelle Substation	20 Years	Good, based on visual inspection
SCE Ductbanks Nimitz/Patton	60 Years	Unknown
SCE Circuits Nimitz/Patton	10 Years	Good
SCE Service Substations #1 and #2	45 Years	Fair
WLA Campus Ductbanks and Circuits #1- #8	50 Years	Fair
Building Distribution System	1 to 127 Years	Varies from Good to Poor

Source: (Booz Allen Hamilton, 2018d)

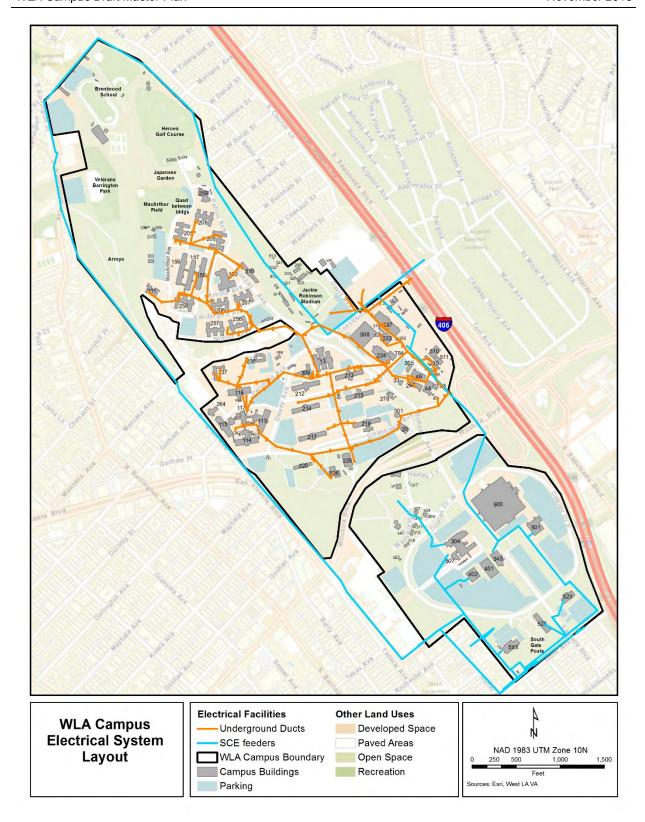


Figure 3.14-6. WLA Campus Electrical System

The on-site, VA-owned portion of domestic electrical supply system infrastructure is over 100 years old. Consistent with aging and end-of-useful life conditions, these systems are subject to continuous O&M repairs by VA engineering and maintenance staff (Leo A. Daly, 2017).

The WLA Campus consumed 47,955,824 kWh of electricity in calendar year (CY) 2015 and 46,707,490 kWh of electricity in CY 2016. Table 3.14-4 summarizes electrical consumption for 2015-2017. This includes leased facilities, such as Heroes Golf Course and Jackie Robinson Stadium, which are not submetered.

	CY 2015 (kWh)	CY 2016 (kWh)	CY 2017 (kWh)
January	3,689,247	3,495,142	3,856,991
February	4,087,299	3,985,500	3,685,439
March	3,612,333	3,435,359	3,399,188
April	3,337,133	3,320,355	3,792,518
May	3,833,787	3,732,992	3,614,965
June	3,984,656	4,074,289	4,090,836
July	4,192,194	4,033,540	4,440,462
August	4,555,964	4,229,826	4,192,874
September	4,772,977	4,384,154	
October	4,375,451	4,274,299	
November	3,970,864	3,957,697	
December	3,543,919	3,784,337	
Total	47,955,824	46,707,490	31,073,273

**Table 3.14-4. WLA Campus Electrical Consumption** 

Source: (Booz Allen Hamilton, 2018e)

#### 3.14.2.5 Solar

Since 2010, VA has installed more than 7MW of VA-owned and operated solar PV systems on building roofs, parking lot shading structures, and ground mounted systems. The WLA Campus solar PV systems tie in with the SCE grid at Buildings 299 and 501, and the SCE Substation #2 near Building 5XX. The solar PV systems are monitored by a third party via fiber optic cables and are metered at each point. While solar PV power is mainly consumed by WLA Campus facilities, there may be some power flow back to SCE during times of low power usage on campus. Approximately 43 percent of the WLA Campus electrical demand occurs during daytime hours (Leo A. Daly, 2017). Table 3.14-5 identifies the existing solar PV on the WLA Campus and their capacity, while Figure 3.14-7 identifies the locations of the solar PV on the WLA Campus.

Accurate and continuous data for solar PV production was unavailable; therefore, modeling based on data from select solar site meters on the WLA Campus was used to create an average production of solar PV value at 10,039,680 kWh per year (Booz Allen Hamilton, 2018d). Total solar PV generation on the WLA Campus displaces 17.2 percent of total campus electrical consumption. All solar PV generated at the WLA Campus is interconnected in front of the meter and not exported outside of the campus. Peak solar generation capacity is estimated at 6 MW of AC demand support between the hours of 12:00 p.m. to 2:00 p.m. (Booz Allen Hamilton, 2018d).

Table 3.14-5. WLA Campus Existing Solar PV and Capacity

Building or Site	Location	Number of Panels	Capacity (KW DC)
Building 500	South Campus	1,086	271
Heliport	South Campus	2,520	617.4
Building 304	South Campus	324	81
Building 401	South Campus	280	70
Building 218	North Campus	210	51.45
Building 213	North Campus	140	34.3
Building 222	North Campus	140	34.3
Building 508	North Campus	231	56.59
Building 510	North Campus	84	20.59
Building 511	North Campus	312	76.44
Lot 18	North Campus	868	212.66
Lot 20	North Campus	1,218	298.41
Lot 38	North Campus	2,318	567.91
Lot 49	North Campus	602	147.49
Lot 12, Buildings 299 & 299B	North Campus	1,162	284.69
Site #1	South Campus	1,722	413.28
Site #2	South Campus	2,688	631.68
Site #3	South Campus	3,472	815.92
Site #4	South Campus	2,912	698.88
Site #5	South Campus	1,344	315.84
Site #6	South Campus	4,046	971.04
Site #7	South Campus	1,162	284.69
Site #8	South Campus	2,100	514.5

Source: (Leo A. Daly, 2017)

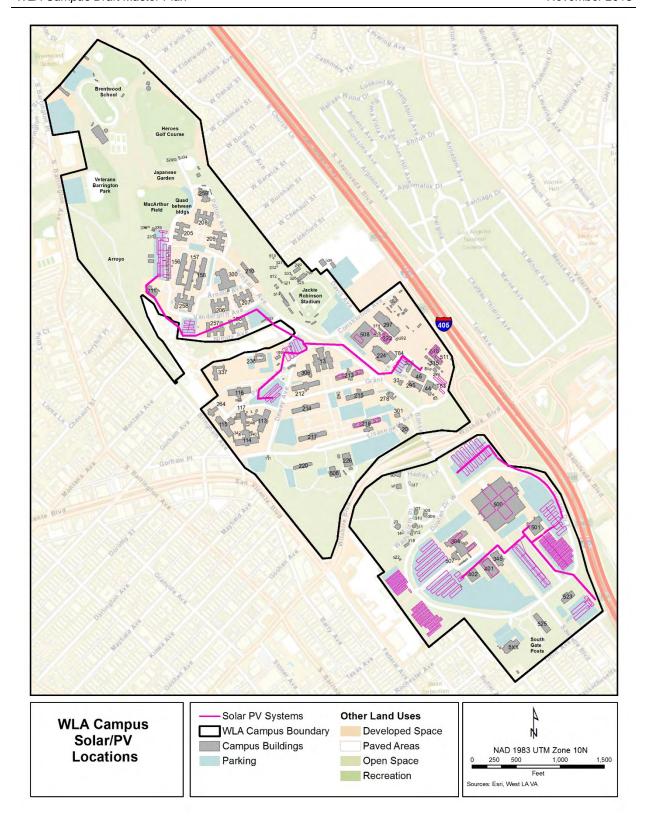


Figure 3.14-7. WLA Campus Solar PV Locations

#### **3.14.2.6 Natural Gas**

Underground natural gas service is available across the WLA Campus (Figure 3.14-8). Natural gas fuel is purchased through a VA-negotiated commodity contract with Tiger Natural Gas, Inc. The purchased natural gas is then transported to the WLA Campus under a separate contract with Southern California Gas (SoCalGas). Natural gas is delivered to the WLA Campus through the SoCalGas Los Angeles natural gas piping infrastructure. The SoCalGas Los Angeles region is a part of a larger integrated regional/state natural gas distribution network serving 21.6 million consumers through 5.9 million meters of distribution network covering approximately 20,000 square miles (Southern California Gas Company, 2018).

An 8-inch SoCalGas main line enters the North Campus near Building 299, where it enters a utility pressure-reducing station prior to distribution on the WLA Campus. Distribution on site is accomplished with a 4-inch and 3-inch header that generally follows the utility corridor on Bonsall Ave on the campus North-South axis. Material of construction of gas mains and primary laterals are a combination of polyethylene (PE) gas pressure piping (likely ASTM D2513) and coated black steel (likely ASTM A53). South Campus mains are comprised of both PE and steel, whereas the North Campus is mostly steel. The primary natural gas user on the WLA Campus is the central steam plant located in Building 295. A dedicated 4-inch line serves the plant that connects to this main header (Booz Allen Hamilton, 2018d).

The natural gas system is reduced at the service gate (city gate) from 30 psi to 7 psi prior to distribution on site (Figure 3.14-8). Piping material of construction varies between the North and South Campus. South Campus mains are primarily high-density polyethylene piping with branches to buildings consisting of original construction coated-black steel (cathodic protection). North Campus natural gas piping is exclusively original construction coated-black steel. Much of the original gas piping available for inspection appears to be in poor condition (Booz Allen Hamilton, 2018d).

The on-site, VA-owned portion of the domestic natural gas supply system infrastructure is over 40 years old, and older gas piping is being replaced with new corrosion resistant piping (Leo A. Daly, 2017). All gas lines are still within their design capacity when accounting for age and condition; however, the branch main lines connecting the South Campus to the North Campus and city gate are above 70 percent capacity. As needed, these systems are subject to continuous O&M repairs by VA engineering and maintenance staff.

During FY 2017, the WLA Campus consumed 242,645 decatherm (dTherm) of natural gas. Table 3.14-6 summarizes the natural gas consumption for 2015-2017 (Booz Allen Hamilton, 2018d). No natural gas lines run to the leased facilities.

There are presently 31 buildings on the WLA Campus that have an inter-tie to the natural gas distribution on site. The laundry facility (Building 508, 6,000 cubic feet per hour [CFH]) and the central steam plant (Building 295, 64,000 CFH) together comprise 87 percent of the total natural gas use on the WLA Campus. For the remaining facilities, if greater pressures were available at the utility pressure-reducing station, then the WLA Campus mains would have a greater capacity to carry a higher volume of gas with potential to meet expected future demand (Booz Allen Hamilton, 2018d).

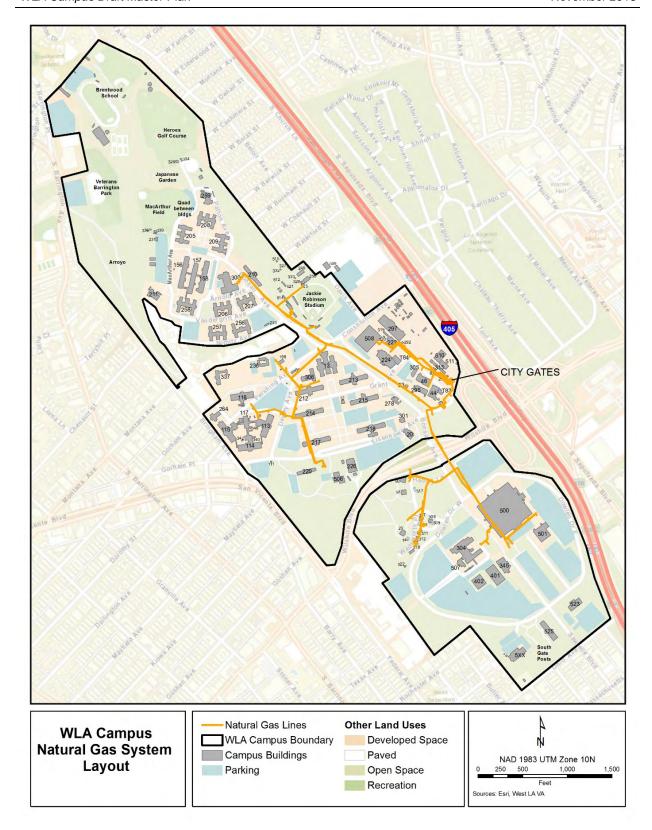


Figure 3.14-8. WLA Campus Natural Gas System Layout

Table 3.14-6. WLA Campus Natural Gas Consumption (dTherms)

Month	FY 2015	FY 2016	FY 2017
October	19,484	20,604	18,356
November	19,767	24,211	18,998
December	23,287	24,569	23,327
January	22,728	20,108	25,598
February	20,142	22,476	22,147
March	20,749	20,551	22,536
April	21,452	20,215	20,431
May	19,328	20,311	20,856
June	18,390	18,508	18,702
July	17,464	16,674	17,130
August	16,739	17,123	16,931
September	17,989	17,277	17,633
Total	237,519	242,627	242,645

Source: (Booz Allen Hamilton, 2018d)

#### 3.14.2.7 Steam

Steam for the WLA Campus is produced in a natural gas fired boiler plant located within Building 295 and supplied through three natural gas fired steam boilers. Constructed in 1949, most of the steam pipes serving the North Campus are original and are located in concrete trenches with concrete cover plates, The steam pipes serving Building 500 and other facilities on the South Campus were updated in 1973 and as part of a phased renovation program in 2007. Steam is initially distributed to three metered steam manifold headers located within Building 295 (Figure 3.14-9). Piping connections at each manifold distributes the steam throughout a large and complex steam-supply and condensate-return system loop. WLA Campus consumption from January 2017 to April 2018 generally varied between 49,826 pounds per hour (PPH) and 10,000 PPH (Booz Allen Hamilton, 2018d).

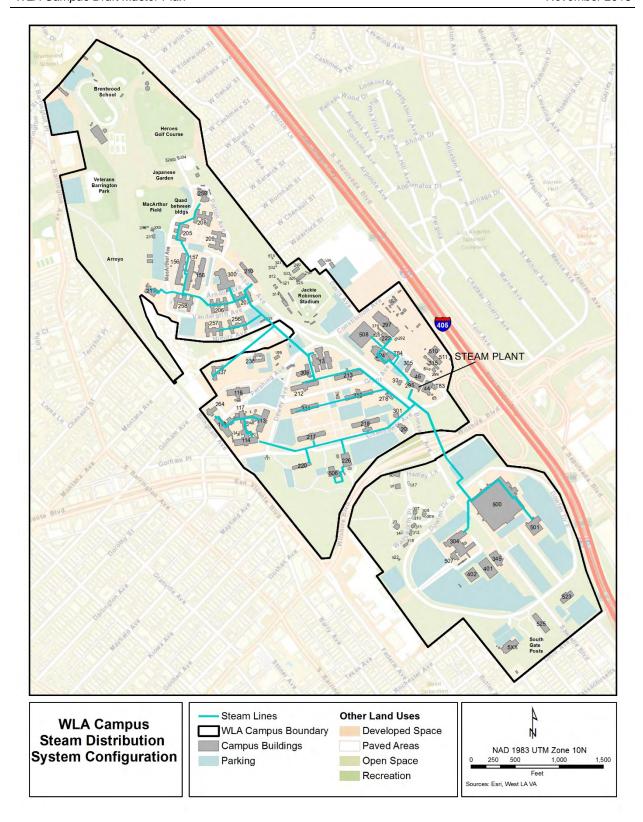


Figure 3.14-9. WLA Campus Steam Distribution System Configuration

In 2017, the steam plant underwent an EPA-mandated project to replace all four water-tube boilers including operational components, compliance systems, and controls to address EPA air-quality emission issues. The new downsized boiler system consists of three smaller natural gas boilers. Similar replacement projects have typically improved steam plant boiler operational efficiently by approximately 20 to 30 percent. Figure 3.14-10 provides the WLA Campus steam plant nameplate capacity before and after replacement.

#### **Prior Steam Plant Equipment Rating**

- Boiler 1 45,000 PPH
- Boiler 2– 45,000 PPH
- Boiler 3 45,000 PPH (non-operational before 1995)
- Boiler 4 45,000 PPH

Total nameplate capacity – 135,000 PPH (excluding Boiler 3)

#### **Replacement Steam Plant Equipment Rating**

- Boiler 1 33,600 PPH
- Boiler 2 33,600 PPH
- Boiler 3 33,600 PPH

Total nameplate capacity = 100,800 PPH

Figure 3.14-10. Steam Plant Equipment Rating Information

Average hourly production of steam from the CUP is 24,000 PPH. The new boilers being installed in the CUP with a firm capacity rating of 66,000 PPH would be a significant increase when combined with large-scale replacement of steam lines and/or selective decentralization were to occur to address the significant steam loss in the distribution system. With no modifications to the existing distribution system, the renovated plant would have sufficient capacity to reliably serve existing demand plus have approximately 15 percent remaining capacity for additional load (Booz Allen Hamilton, 2018d).

The steam distribution system consists of approximately three miles of steam and condensate return lines situated underground in tunnels, shallow trenches, and directly buried. Many of the main steam lines and branches on the South Campus have been replaced within the last 15 years and are generally in good condition; however, steam related supports, traps, valves, and instrumentation on the North Campus are in poor condition and many steam pipe tunnels have significant leaks due to corrosion of the steam distribution components. It is estimated that 40 to 50 percent of the steam generated in Building 295 does not actually make it to points of use (Booz Allen Hamilton, 2018d). The line that feeds Buildings 214 and 215 is currently beyond its design capacity when adjusted for age and condition. Lines that feed

buildings in the North Campus, specifically Buildings 337, 256, 257, 206, 207, 258, and 211, are over 50 percent of capacity when adjusted for age and condition. Many buildings on the distribution loop do not return condensate due to poor condition of piping. The condensate return rate is between 30 to 60 percent as a result (Booz Allen Hamilton, 2018d). While the steam plant has sufficient capacity currently, the steam plant is inefficient at providing thermal load to the WLA Campus. The amount of loss due to inefficiency and the poor condition of the distribution system is substantial and provides a highly inefficient solution for the WLA Campus needs.

For chilled water, no data or reports were available to assess the current condition of the chilled water plant. The chilled water plant is in Building 501 and provides chilled water to Building 500. Performance and capacity are unknown due to lack of access to data.

#### 3.14.2.8 Communications

Being part of a large metropolitan area, the WLA Campus has numerous options for telephone, television, and internet. Current providers and services for communications resources and infrastructure are:

- Information Technology (IT) Network: Campus-wide single mode, multimode optical fiber, and copper cables
  - o Single mode fiber and 1,200 pair copper cables routed in underground ductbanks
  - o Copper cable (reportedly unused)
  - o Fiber (installed in 1983-84).
- IT Provider: Frontier Communications Corporation is the primary telecommunications provider.
- **VA IT systems:** Get Well Network and other patient education systems; Integrated energy monitoring with Schneider Electric building automation system and building metering.
- **Fire alarm systems:** Fiber optic fire alarm network in four zones with building-level fire control panel and communications of fire alarm signals.
- **Security system networking**: Building-level access control with enterprise IT fiber optic closed-circuit television.
- **Broadcast media**: CATV and DirecTV service.
- **Phone system:** Frontier (formerly Verizon) is the primary phone service provider (Booz Allen Hamilton, 2018d).

The on-site, VA-owned portion of the communications infrastructure is over 30 years old (Leo A. Daly, 2017). Consistent with aging and end-of-useful life conditions, these systems are subject to continuous O&M repairs by VA engineering and maintenance staff. VA engineering staff have been unable to upgrade portions of their telecommunications system requiring phone lines because the cable is too old. Individual cable replacement is ongoing when upgrading residential units to include equipment such as TVs. Figure 3.14-11 provides available data on the telecommunication lines on the WLA Campus. It should be noted that outside communications service provider resources are abundant.

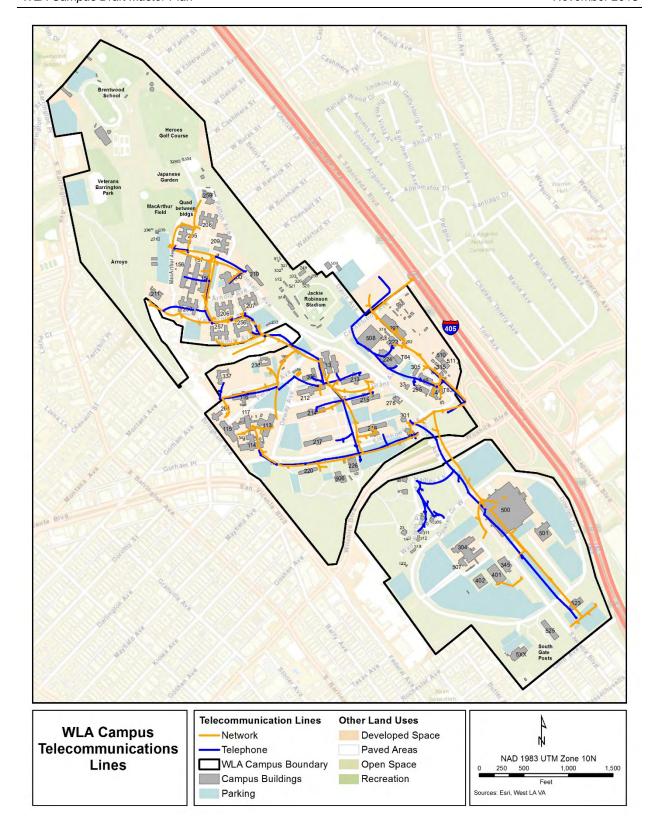


Figure 3.14-11. Available Data on WLA Campus Telecommunications Lines

# 3.15 Environmental Justice

As defined by the EPA, environmental justice is "the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income, with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies" (U.S. Environmental Protection Agency, 2018c). Environmental justice is closely related to socioeconomics (Section 3.10) and concerns topics such as minority populations and populations in poverty (including homeless persons). Populations with limited English proficiency and populations of children are often addressed within the environmental justice context because of similar regulatory requirements for their consideration.

# 3.15.1 Regulatory and Policy Framework

This section contains an overview of federal, state, and local laws and regulations applicable to environmental justice.

# 3.15.1.1 EO 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations

The purpose of EO 12898, Federal Actions to Address Environmental Justice in Minority Populations of Low-Income Populations, is to ensure that federal agencies avoid taking actions that have a disproportionately high and adverse impact on low-income populations or minority populations. Each federal agency must make achieving environmental justice part of its mission by identifying and addressing, as appropriate, disproportionately high and adverse human health, environmental, economic, and social effects of its programs, policies, and activities on minority and low-income populations, particularly when such analysis is required by NEPA. EO 12898 emphasizes the importance of NEPA's public participation process directing that each federal agency shall provide opportunities for community input in the NEPA process. Agencies are further directed to identify potential effects, as well as best management practices (BMPs) and mitigation measures in consultation with affected communities.

# 3.15.1.2 EO 13045, Protection of Children from Environmental Health Risks and Safety Risks

EO 13045, *Protection of Children from Environmental Health Risks and Safety Features*, requires federal agencies to take action to ensure that their policies, programs, activities, and standards address disproportionate environmental health and safety risks to children. These risks include the health or safety of children that are from products or substances that a child is likely to come into contact with or ingest. Children may suffer disproportionately from these risks because their neurological, immunological, digestive, and other bodily systems are still developing. Their size and weight can make them more susceptible to these environmental health and safety risks.

# 3.15.1.3 EO 13166, Improving Access to Services for Persons with Limited English Proficiency

Under EO 13166, *Improving Access to Services for Persons with Limited English Proficiency*, federal agencies are required to examine services they provide, identify needs for services to individuals with

limited English proficiency, and develop and implement a system to provide services to individuals with limited English proficiency.<sup>23</sup>

#### 3.15.1.4 California Code, Government Code § 65040.12

The State of California Government Code § 65040.12 defines environmental justice as "the fair treatment of people from all races, cultures, and income levels" as it relates to environmental laws, regulations, and policies. The statute requires the California Office of Planning and Research to develop guidelines to ensure equitable distribution of public services and facilities, location of industrial facilities that pose a significant hazard to human health and safety away from schools or residential areas, location of schools and residential areas away from industrial facilities, and expansion of opportunities for transit-oriented development.

#### 3.15.1.5 CEQ Guidance for Environmental Justice Analysis

Subsequent to publication of EO 12898, CEQ issued guidance for considering environmental justice within the NEPA process (Council on Environmental Quality, 1997). Many environmental justice analyses use the definitions and approaches established in this guidance to identify minority and lowincome populations and to identify other populations of concern. The mapping of minority, low-income, limited English proficiency, and child populations in Section 3.15.2, Current Conditions, utilizes, in part, these definitions and approaches.

The CEO guidance defines minorities as individual(s) who are members of the following population groups: American Indian or Alaskan Native; Asian or Pacific Islander; Black, not of Hispanic origin; or Hispanic. Environmental justice analysts also include two additional population groups defined by the Census Bureau since publication of the CEO guidance: Some Other Race, and Two or More Races. The guidance recommends identifying a "minority population" as follows:

Minority populations should be identified where either: (a) the minority population of the affected area exceeds 50 percent or (b) the minority population percentage of the affected area is meaningfully greater than the minority population percentage in the general population or other appropriate unit of geographic analysis (Council on Environmental Quality, 1997).

The CEQ guidance states that "low-income" should be determined using the annual statistical poverty thresholds from the Census Bureau. That is, persons living under the poverty income threshold are potentially of concern (Council on Environmental Quality, 1997). The guidance does not specify how to identify a "low-income population," but in practice the "meaningfully greater" approach used for minority populations is often followed.

The CEQ guidance does not define what constitutes "meaningfully greater." Environmental justice analysts recommend that the definition of meaningfully greater should vary based on the likelihood of adverse impacts, with higher thresholds in situations when the chances of adverse impacts are minor, and

<sup>&</sup>lt;sup>23</sup> Limited English-speaking households are not specifically mentioned in EO 12898 or CEQ guidance language paraphrased below but are included in the language and the environmental justice analysis because of the focus of EO 13166 and the common practice in NEPA environmental justice analysis in California is to address limited English-speaking households. Language referring to Native American tribes is removed from the following paragraphs because no specific tribes have a notable presence on or in the vicinity of the WLA Campus.

lower thresholds when the chances of adverse impacts are high (Winthrop, 2010). In practice, meaningfully greater is often interpreted to identify an environmental justice population if the percentage of population in minority and/or poverty status in an area is at least 10 percentage points higher than in the comparison area (e.g., greater than or equal to 19 percent of the population in poverty in a study area geography compared with 9 percent of the population in poverty in the comparison area).

Analysts often identify additional thresholds for relative levels of concentration of populations of concern. Subsections below discuss the additional thresholds used in this PEIS.

Analysts use the approaches described above to identify populations based on their place of residence. However, an additional approach is sometimes necessary. CEQ's guidance states:

In identifying low-income populations, agencies may consider as a community either a group of individuals living in geographic proximity to one another, or a set of individuals (such as migrant workers or Native Americans), where either type of group experiences common conditions of environmental exposure or effect [emphasis added] (Council on Environmental Quality, 1997).

This statement from CEQ guidance makes clear that populations also may be identified based on other considerations besides place of residence. Some agencies have clarified this further in their own environmental justice guidance documents. For instance, DOT Order 5610.2(a), *Department of Transportation Actions to Address Environmental Justice in Minority Populations and Low-Income Populations* states:

Low-Income Population means any readily identifiable group of low-income persons who live in geographic proximity, and, if circumstances warrant, geographically dispersed/transient persons (such as migrant workers or Native Americans) who will be similarly affected by a proposed DOT program, policy or activity [emphasis added] (U.S. Department of Transportation, 2012).

A transient low-income population of concern for this PEIS is the homeless Veteran population, particularly those who receive services at the WLA Campus. By visiting the WLA Campus, they "experience common conditions of environmental exposure or effect."

#### 3.15.2 Current Conditions

This section uses the same geographic areas of analysis that were used in the socioeconomics analysis in Section 3.10.2.1: California, GLAHS service area, Los Angeles County, four adjacent communities, Census Tract 7011, and the WLA Campus. For the four adjacent communities and Census Tract 7011, each subsection for environmental justice includes a color thematic map showing the level of an indicator (e.g., minority population as a percentage of the total population) across each community and Census Tract 7011. The sub-community units of geography used on the maps are census tracts. Each subsection details the thresholds used to establish the color classes used on the maps. The thresholds were based on CEQ guidance and best practices in environmental justice analysis using the state and Los Angeles County as reference populations. Each map applies five classes to the values for each indicator: two shades of green below the first threshold, amber immediately above the first threshold, and two shades of red above the second and third thresholds. The minority population and low-income population subsections also present data specifically addressing the Veteran population at the county and state levels.

These data show how the Veteran population compares to the general population at those geographic levels.

#### 3.15.2.1 Minority Population

#### 3.15.2.1.1 Minorities in the General Population

Table 3.15-1 shows the percentage of the population by race and Hispanic status in California, the GLAHS service area, adjacent communities, and Census Tract 7011. Table 3.15-1 and several others in this section use data from the U.S. Census Bureau's American Community Survey 2011-2015 estimates. This source is based on sample data for each year of the five-year period; thus, the estimates reflect average conditions from 2011-2015.<sup>24</sup>

The total population in 2011-2015 within the GLAHS service area was 12,457,324.<sup>25</sup> As shown in Table 3.15-1 and portrayed graphically in Figure 3.15-1, nearly 58 percent of the GLAHS service area population was White, followed by Some Other Race<sup>26</sup> (17.6 percent), Asian (12.4 percent), and Black/African American (7.3 percent). When compared to the other counties in the GLAHS service area, the population of Los Angeles County contained the highest percent of Black/African American (8.3 percent), Asian (14.1 percent), and Some Other Race (19.6 percent). Kern County contained the highest Hispanic population (51.0 percent), followed by Los Angeles County (48.2 percent) and Santa Barbara County (44.1 percent) (U.S. Census Bureau, 2017h; U.S. Census Bureau, 2017i).

The Asian population within the four adjacent communities (21.8 percent) was considerably higher when compared to the population of the GLAHS service area (12.4 percent), with the highest percentages in Westwood (29.2 percent) and West Los Angeles (23.7 percent). Brentwood had the highest percentage of White population at 85.7 percent, followed by Westside (74.4 percent), both considerably higher than the White population of the GLAHS service area (57.9 percent) or state (61.8 percent). The Hispanic population within the adjacent communities (11.6 percent) was considerably lower than the Hispanic population in California (38.4 percent) and the GLAHS service area (47.3 percent). West Los Angeles had the highest percentage of Hispanic population (22.0 percent) followed by Westwood (9.9 percent) and Westside (7.5 percent). (U.S. Census Bureau, 2017h; U.S. Census Bureau, 2017i).

<sup>24</sup> This is the most recent data available at the census tract level, the level required to develop the demographic data points for the adjacent communities. Section 3.10, Socioeconomics, uses this source for adjacent community data, and in some cases, uses more recent single-year data where it is sufficient to present data at the county and state level only.

<sup>&</sup>lt;sup>25</sup> In Section 3.10.2.2, Population, the 2016 total population within the GLAHS service area was 12,699,892. The difference in population is because the data source essentially provides an average of the population in the GLAHS service area for 2011-2015.

<sup>&</sup>lt;sup>26</sup> The category Some Other Race includes people who do not identify themselves as one of the other race categories.

Table 3.15-1. Population by Race and Hispanic Status, 2011-2015

Area	Total				Race				Hispanic	All
	Population	White	Black/ African American	American Indian/ Alaska Native	Asian	Native Hawaiian/ Pacific Islander	Some Other Race	Two or More Races	·	Minorities
California	38,421,464	61.8%	5.9%	0.7%	13.7%	0.4%	12.9%	4.5%	38.4%	61.3%
Service Area:										
Kern County	865,736	74.7%	5.7%	1.2%	4.6%	0.2%	10.5%	3.3%	51.0%	63.4%
Los Angeles County	10,038,388	53.3%	8.3%	0.6%	14.1%	0.3%	19.6%	3.9%	48.2%	73.1%
San Luis Obispo County	276,517	85.0%	2.1%	0.7%	3.7%	0.1%	5.1%	3.4%	21.8%	30.2%
Santa Barbara County	435,850	74.3%	2.0%	0.9%	5.2%	0.2%	13.3%	4.1%	44.1%	53.7%
Ventura County	840,833	78.8%	1.8%	0.7%	7.1%	0.2%	7.2%	4.2%	41.6%	53.0%
Service Area Total	12,457,324	57.9%	7.3%	0.7%	12.4%	0.2%	17.6%	3.9%	47.3%	69.4%
Census Tract 7011*	988	40.7%	43.4%	0.0%	6.6%	0.1%	6.2%	3.0%	15.2%	68.2%
Adjacent Communities	:									
Brentwood	26,463	85.7%	1.2%	0.3%	8.4%	0.0%	0.7%	3.8%	6.1%	19.0%
West Los Angeles	34,515	60.5%	2.6%	2.2%	23.7%	0.0%	6.0%	4.9%	22.0%	52.5%
Westside	27,964	74.4%	1.9%	0.1%	17.5%	0.9%	1.8%	3.4%	7.5%	31.2%
Westwood	55,057	59.6%	2.3%	0.1%	29.2%	0.1%	3.8%	4.9%	9.9%	45.6%
Adjacent Communities Total	143,999	67.5%	2.1%	0.7%	21.8%	0.2%	3.4%	4.4%	11.6%	39.6%

Notes: \*Includes residents of the WLA Campus.

Sources: (U.S. Census Bureau, 2017h; U.S. Census Bureau, 2017i)

<sup>&</sup>quot;All Minorities" is defined as all persons other than Non-Hispanic White.

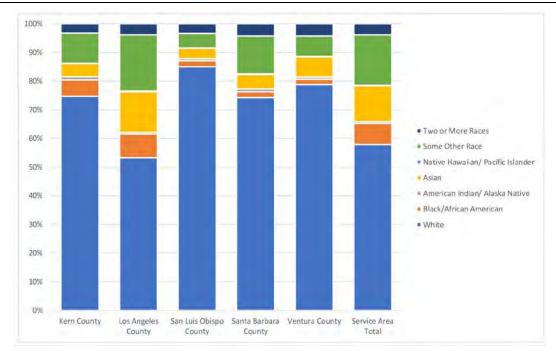


Figure 3.15-1. Population by Race in the Service Area, 2011-2015

The data for Census Tract 7011 in Table 3.15-1 include the resident population of the WLA Campus. For Census Tract 7011, 40.7 percent of the population was White, a substantially lower percentage than in the state, GLAHS service area, or adjacent communities. The highest minority population in Census Tract 7011 was Black/African American (43.4 percent), a substantially higher percentage than in the state, GLAHS service area, or adjacent communities. The percentages for all other races were lower than those in the state, GLAHS service area, or adjacent communities. The Hispanic population percentage within Census Tract 7011 (15.2 percent) was considerably lower than the statewide and GLAHS service area percentages (U.S. Census Bureau, 2017h; U.S. Census Bureau, 2017i).

Figure 3.15-2 shows variations in the prevalence of the All Minorities population across the adjacent communities and Census Tract 7011, based on 2011-2015 data (U.S. Census Bureau, 2017h; U.S. Census Bureau, 2017i). The first threshold used to establish the color classes was the CEQ guidance threshold of 50 percent. Below that value, a breakpoint was defined at half the value of the first threshold, or 25 percent. Above the first threshold, the next threshold was at the lower value for the two reference populations, which was 61.3 percent for California. The final threshold was at the higher value for the Los Angeles County reference population, 73.1 percent.

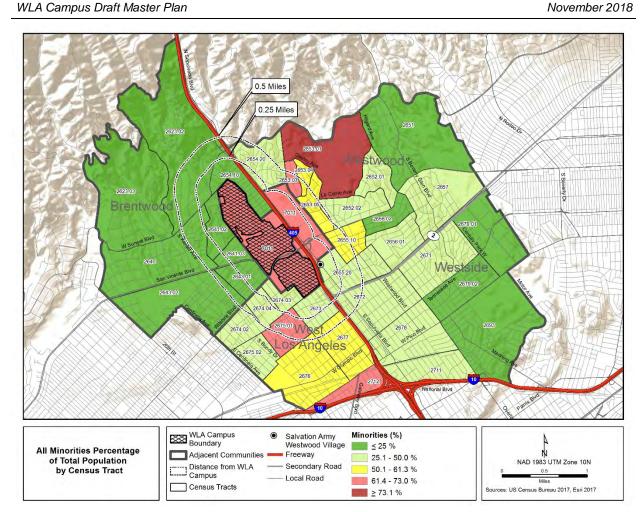


Figure 3.15-2. All Minorities Percentage of Total Population by Census Tract

High percentages of the All Minority populations included Census Tract 7011, census tracts northeast of the WLA Campus, and census tracts south of the WLA Campus. To the northeast, portions of Census Tracts 2653.03, 2653.04, 2653.05, and 2655.10 were within 0.5 miles of the WLA Campus and contained All Minority populations between 50.0 to 73.0 percent. To the south, a portion of Census Tract 2675.01 was within 0.25 miles of the WLA Campus and contained an All Minority population between 61.4 and 73.0 percent. Also to the south, portions of Census Tracts 2676 and 2677 were within 0.5 miles of the WLA Campus and contained All Minority populations between 50.0 to 61.3 percent. The lowest concentrations of All Minority populations were found northwest and southeast of the WLA Campus. Census Tract 2653.01, northeast of the WLA Campus, had the highest concentration of All Minority population (over 73 percent) and was more than 0.5 miles from the WLA Campus (U.S. Census Bureau, 2017h; U.S. Census Bureau, 2017i).

#### 3.15.2.1.2 Minorities in the Veteran Population

Table 3.15-2 shows the percentage of the Veteran population by race in California and the GLAHS service area. The total population of Veterans in 2011-2015 within the GLAHS service was 433,526. Nearly 73 percent of the GLAHS service area Veteran population was White, followed by Black/African American (12.1 percent), Asian (6.1 percent), Some Other Race (5.0 percent) and Two or More Races (3.1 percent). When compared to other counties in the GLAHS service area, the Veteran population of Los Angeles County contained the highest percentage of Black/African American (15.4 percent), Asian (7.5 percent), and Some Other Race (5.8 percent). The Veteran population in Los Angeles County had the highest Hispanic population (21.1 percent), followed by Kern County (18.6 percent), Ventura County (15.9 percent), and Santa Barbara County (14.7 percent) (U.S. Census Bureau, 2018a).

### 3.15.2.2 Low-Income Population

Table 3.15-3 shows the percentage of individuals and families living below the poverty level in California, the GLAHS service area, and adjacent communities during the 2011-2015 period. The GLAHS service area percentage of persons in poverty (17.9 percent) was slightly higher than the statewide percentage (16.3 percent). Among the GLAHS service area counties, Kern County had the highest percentage of population in poverty (23.5 percent), followed by Los Angeles County (18.2 percent) and Santa Barbara County (16.3 percent). The GLAHS service area percentage of families in poverty (13.9 percent) was also slightly higher than the statewide percentage (12.2 percent). Kern County had the highest percentage of families in poverty (19.4 percent) followed by Los Angeles County (14.3 percent) and Santa Barbara County (10.0 percent) (U.S. Census Bureau, 2017j).

The percentage of persons in poverty within the adjacent communities (16.7 percent) was similar to the statewide percentage (16.3 percent). Westwood had the highest percentage of population in poverty (31.3 percent), considerably higher than the poverty rates for California, the GLAHS service area, or Los Angeles County, followed by West Los Angeles (14.0 percent). The percentage of families in poverty within the adjacent communities (4.7 percent) was 7.5 percentage points less than the statewide percentage (12.2 percent). The percentage of families in poverty in the adjacent communities was lower than the statewide percentage. West Los Angeles had the highest percentage of families in poverty (7.3 percent), followed by Westwood (5.2 percent) (U.S. Census Bureau, 2017j).

Table 3.15-2. Veteran Population by Race and Hispanic Status, 2011–2015

Area	Total		Race Hispan					Hispanic	All	
	Population - Veteran	White - Veteran	Black/African American - Veteran	American Indian/Alaska Native - Veteran	Asian - Veteran	Native Hawaiian/ Pacific Islander - Veteran	Some Other Race - Veteran	Two or More Races - Veteran	- Veteran	Minorities - Veteran
California	1,777,410	77.2%	9.0%	0.9%	5.8%	0.4%	3.6%	3.0%	15.0%	32.8%
Service Area:										
Kern County	40,880	84.1%	4.9%	1.4%	2.1%	0.2%	3.6%	3.7%	18.6%	29.2%
Los Angeles County	304,828	66.8%	15.4%	0.7%	7.5%	0.5%	5.8%	3.2%	21.1%	47.0%
San Luis Obispo County	19,134	91.3%	2.9%	0.7%	1.1%	0.0%	1.5%	2.5%	7.1%	13.8%
Santa Barbara County	24,098	85.9%	4.9%	1.4%	1.6%	0.5%	3.4%	2.3%	14.7%	23.6%
Ventura County	44,586	85.0%	3.5%	0.7%	4.8%	0.2%	3.1%	2.6%	15.9%	26.4%
Service Area Total	433,526	72.5%	12.1%	0.8%	6.1%	0.4%	5.0%	3.1%	19.4%	40.5%

Notes: "All Minorities" is defined as all persons other than Non-Hispanic White. Total Population of Veterans is Veterans within the civilian population 18 years and over.

Source: (U.S. Census Bureau, 2018a)

The data for Census Tract 7011 in Table 3.15-3 include most of the resident population of the WLA Campus.<sup>27</sup> The percentage of persons in poverty within Census Tract 7011 was 58.6 percent, more than three times the percentages for California, the GLAHS service area, and the adjacent communities (U.S. Census Bureau, 2017j) (U.S. Census Bureau, 2017k). The families in poverty shown in Table 3.15-3 are mostly located off the WLA Campus in the Salvation Army's Westwood Transitional Living Village, as only a very small number of families could reside in the seven staff housing units on the WLA Campus.

Area	Persons ir	n Poverty	Families in Poverty (Families with Children*)		
	Number Percentage		Number	Percentage	
California	6,135,142	16.3%	1,063,568	12.2%	
Service Area:					
Kern County	195,744	23.5%	37,996	19.4%	
Los Angeles County	1,800,265	18.2%	313,322	14.3%	
San Luis Obispo County	38,630	14.8%	4,950	7.6%	
Santa Barbara County	68,017	16.3%	9,382	10.0%	
Ventura County	91,880	11.1%	15,643	7.9%	
Service Area Total	2,194,536	17.9%	381,293	13.9%	
Census Tract 7011**	482	58.9%	15	31.3%	
Adjacent Communities:					
Brentwood	1,783	6.7%	171	3.0%	
West Los Angeles	4,801	14.0%	428	7.3%	
Westside	2,054	7.4%	218	3.4%	
Westwood	13,054	31.3%	320	5.2%	
Adjacent Communities Total	21,692	16.7%	1,137	4.7%	

Table 3.15-3. Populations in Poverty, 2011–2015

Notes: \*Data are for the population for whom poverty status is determined. Families with children are defined as families with children (under 18 years of age) related to the householder by birth or adoption.

Sources: (U.S. Census Bureau, 2017j) (U.S. Census Bureau, 2017k)

Figure 3.15-3 shows variations across the adjacent communities and the WLA Campus in the percentage of individuals living in poverty, based on 2011-2015 data (U.S. Census Bureau, 2017j) (U.S. Census Bureau, 2017k). The first threshold used to establish the color classes was the lower reference population poverty rate of 16.3 percent for California. Below that value, a breakpoint was defined at half the value of the first threshold, or 8.1 percent. Above the first threshold, the higher reference population poverty rate, for Los Angeles County, was not used as a threshold because it was only slightly higher, at 18.2 percent. Instead, the next threshold was 20 percent. This is the Census Bureau's definition of a "poverty area" (Bishaw, 2014). The final threshold was 40 percent, which is often defined as a "high poverty area" an "extreme poverty area." Studies of concentrated poverty commonly use these definitions (Kneebone, Nadeau, & Berube, 2011) (Jargowsky, 2013).

The highest concentrations of persons in poverty were Census Tract 7011 and Census Tracts 2653.03, 2653.04, and 2653.05 (U.S. Census Bureau, 2017j) (U.S. Census Bureau, 2017k). These three census

<sup>\*\*</sup>Includes most residents of the WLA Campus.

<sup>&</sup>lt;sup>27</sup> The dataset is for the "population for whom poverty status is determined" (U.S. Census Bureau, 2017j). This population, 818 persons for Census Tract 7011 in the 2011-2015 period, was 82.8 percent of the total population. The difference of 170 from the total population of 988 is the population that the Census Bureau classifies as institutionalized e.g., confined to a nursing home (U.S. Census Bureau, 2018e).

tracts were in Westwood to the northeast and within 0.5 miles of the WLA Campus. They are a special case as they are located adjacent to the UCLA campus and include dense off-campus housing for UCLA students. Students often have very low incomes but are not necessarily in poverty as many come from non-poverty families. Additional census tracts within 0.5 miles of the WLA Campus and with high concentrations of persons in poverty were Census Tracts 2655.10 and 2674.03 (U.S. Census Bureau, 2017j) (U.S. Census Bureau, 2017k). Census Tract 2655.10 is also near UCLA in Westwood and is probably affected by students. Census Tract 2674.03, in West Los Angeles immediately south of the WLA Campus, may not be as affected by a student population. The lowest concentrations of persons in poverty were to the northwest and southeast of the WLA Campus (U.S. Census Bureau, 2017j) (U.S. Census Bureau, 2017k).

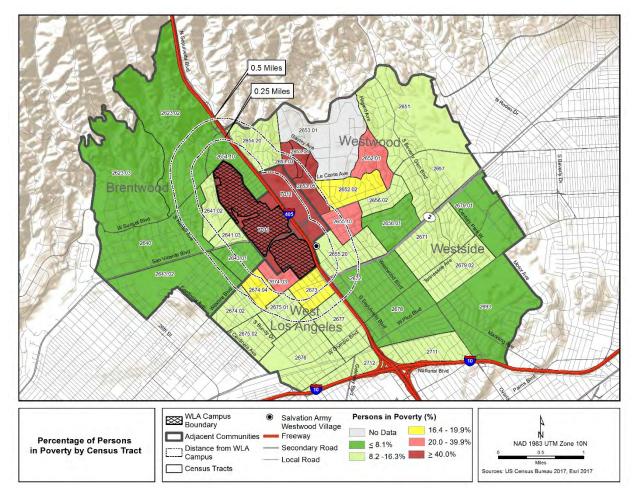


Figure 3.15-3. Percentage of Persons in Poverty by Census Tract

#### 3.15.2.2.1 Poverty in the Veteran Population

Table 3.15-4 shows the number and percentage of Veterans and non-Veterans living below the poverty level in California and the GLAHS service area during the 2011-2015 period. The GLAHS service area percentages of Veterans (7.8 percent) and non-Veterans in poverty (15.7 percent) were slightly higher

than the statewide percentages for Veterans (7.4 percent) and non-Veterans (14.5 percent). Among the GLAHS service area counties, Los Angeles County had the highest percentage of Veterans in poverty (8.5 percent), followed by Kern County (8.0 percent). Throughout the GLAHS service area, the percentage of Veterans in poverty was lower than the percentage of non-Veterans in poverty (U.S. Census Bureau, 2018a).

Table 3.15-4. Veteran and Non-Veteran Populations in Poverty, 2011–2015

	Veterans in Poverty		Non-Veteran	s in Poverty		
Area	Number	Percentage	Number	Percentage		
California	131,227	7.4%	3,965,884	14.5%		
Service Area:						
Kern County	3,287	8.0%	109,298	19.3%		
Los Angeles County	25,994	8.5%	1,183,204	16.0%		
San Luis Obispo County	1,058	5.5%	30,006	14.8%		
Santa Barbara County	1,393	5.8%	46,112	14.7%		
Ventura County	2,130	4.8%	56,945	9.7%		
Service Area Total	33,862	7.8%	1,425,565	15.7%		

Note: Data are for the civilian population 18 years and over for whom poverty status is determined.

Source: (U.S. Census Bureau, 2018a)

#### 3.15.2.2.2 Homelessness and Environmental Justice

Homelessness—in general and for Veterans—is discussed in detail in Sections 3.10.2.5.2 and 3.10.2.5.3, and must also be considered in the environmental justice context because of its close relationship to the population in poverty. Many but not all homeless persons are homeless because they are in poverty due to a very low income or loss of a job and cannot afford housing. Homeless Veterans are a special focus of current GLAHS and WLA programs and the WLA Campus Draft Master Plan. Homeless Veterans seek out the WLA Campus to obtain services.

Homeless Veterans are particularly important as a focus for environmental justice analysis because many are complex patients, as described in Section 3.10.2.6. At the WLA Campus, over 47 percent have a mental disorder and over 64 percent have alcohol addition, drug addiction, or both (U.S. Department of Veterans Affairs, 2017e). Of the mentally ill homeless Veterans, VA staff note that many suffer from PTSD. These and other health conditions represent special vulnerabilities that could make these Veterans uniquely susceptible, relative to healthier minority and low-income Veterans, to changes in their daily lives.

#### 3.15.2.3 Limited English-Speaking Households

# 3.15.2.3.1 Limited English-Speaking Households in the General Population

Table 3.15-5 shows the percentage of limited English-speaking households (LESH) in California, the GLAHS service area, and adjacent communities during the 2011-2015 period. An LESH is one in which no member of the family who is 14 years old or over speaks only English, or speaks a non-English language and speaks English very well. More simply, all members of the family 14 years old and over

have difficulty with English (U.S. Census Bureau, 2017l). Another term for this in some literature and in EO 13166 is limited English proficiency.

As shown in Table 3.15-5, the LESH percentage in the GLAHS service area (12.5 percent) was nearly three percentage points higher than the statewide percentage (9.5 percent). Except for Los Angeles County, the counties in the GLAHS service area had a lower LESH percentage than the statewide percentage. Los Angeles County had the highest LESH percentage (13.7 percent) followed by Kern County (8.8 percent) and Santa Barbara County (7.7 percent). The LESH percentage within the adjacent communities (7.2 percent) was 2.3 percentage points lower than the statewide percentage (U.S. Census Bureau, 2017m).

Within Census Tract 7011, there were no identified LESH households (U.S. Census Bureau, 2017m). The figures for Census Tract 7011 in Table 3.15-5 do not reflect most of the residents of the WLA Campus. The statistics in Table 3.15-5 are for people who live in households, which includes the very small number of people living in staff housing on the WLA Campus but does not include Veterans in other VA housing on the WLA Campus, whom the Census Bureau classifies as living in group quarters. However, it is assumed that Veterans speak English, otherwise they would not have been able to serve in the military.

Table 3.15-5. Limited English-Speaking Households, 2011-2015

Area	Number	Percentage
California	1,210,285	9.5%
Service Area:		
Kern County	22,794	8.8%
Los Angeles County	448,505	13.7%
San Luis Obispo County	3,584	3.5%
Santa Barbara County	10,967	7.7%
Ventura County	18,052	6.7%
Service Area Total	503,902	12.5%
Census Tract 7011*	0	0.0%
Adjacent Communities:		
Brentwood	398	3.1%
West Los Angeles	1,485	9.1%
Westside	898	7.2%
Westwood	1,583	8.3%
Adjacent Communities Total	4,364	7.2%

Notes: \*The dataset does not include most residents of the WLA Campus. However, all Veterans speak English.

Source: (U.S. Census Bureau, 2017m)

Figure 3.15-4 shows variations across the adjacent communities and Census Tract 7011 in the percentage of LESH based on 2011-2015 data (U.S. Census Bureau, 2017m). The first threshold used to establish the color classes was the lower value of the two reference populations, which was the California percentage of LESH (9.5 percent). Below that value, a breakpoint was defined at half the value of the first threshold, or 4.7 percent. Above the first threshold, the next threshold was the higher reference population for Los Angeles County (13.7 percent). The final threshold was 23.7 percent, based on the

practice of defining "meaningfully greater" in some environmental justice analyses by adding 10 percentage points to a reference population percentage.

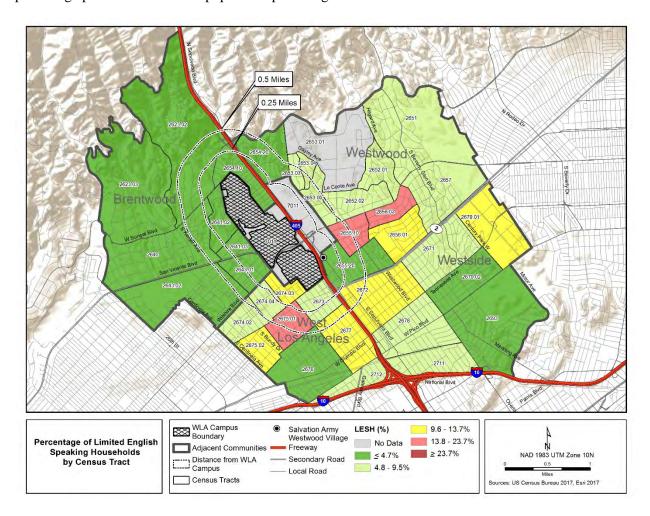


Figure 3.15-4. Percentage of Limited English-Speaking Households by Census Tract

The census tracts with the highest LESH concentrations within 0.5 miles of the WLA Campus were to the east and south and included Census Tracts 2655.10 and 2675.01, with LESH percentages between 13.8 and 23.7 percent. Beyond 0.5 miles, only one census tract had a high LESH concentration. However, all of the census tracts mentioned had LESH concentrations that were less than the "meaningfully greater" threshold. The census tracts north and northwest of the WLA Campus contained the lowest LESH concentrations (U.S. Census Bureau, 2017m).

# 3.15.2.3.2 Limited English-Speaking Households in the Veteran Population

No statistics for limited English proficiency are presented for the Veteran population in California and the GLAHS service area because this topic is not relevant for the Veteran population. As noted earlier, it is assumed that all Veterans speak English. In addition, even if a Veteran has members of his or her

household with limited English-speaking proficiency, that household would not be considered a limited English-speaking household due to the Veteran's English proficiency.

#### 3.15.2.4 Child Population

#### 3.15.2.4.1 Children in the General Population

Table 3.15-6 shows the percentage of children in the total population in California, the GLAHS service area, and adjacent communities during the 2011-2015 period. It also shows the percentage of children in the total population of the GLAHS service area (23.5 percent) was similar to the statewide percentage (23.9 percent). The highest percentage of children was in Kern County (29.6 percent) and the lowest percentage was in San Luis Obispo County (18.4 percent) (U.S. Census Bureau, 2017d; U.S. Census Bureau, 2017n; U.S. Census Bureau, 2017o).

In the adjacent communities, the percent of children was 11.7 percent, which was 12.2 percentage points lower than the statewide percentage (23.9 percent); all neighboring communities had lower percentages than the statewide or GLAHS service area figures. Among the adjacent communities, Westside had the highest percentage of children (18.3 percent), and Westwood had the lowest (7.5 percent) (U.S. Census Bureau, 2017d; U.S. Census Bureau, 2017n; U.S. Census Bureau, 2017o).

Within Census Tract 7011, the percentage of children was very low at 5.3 percent (U.S. Census Bureau, 2017d; U.S. Census Bureau, 2017o). The data for Census Tract 7011 include all residents of the WLA Campus; however, children living in Census Tract 7011 in the 2011-2015 period were mostly or entirely living in the Salvation Army's Westwood Transitional Living Village. The only housing on the WLA Campus that could accommodate children are the seven VA staff housing units, which as of March 2018 had two or three resident children.

**Table 3.15-6. Population of Children** 

Area	Total Population	Population of	of Children
	-	Area	Total Population
California	38,421,464	9,174,343	23.9%
Service Area:			
Kern County	865,736	255,909	29.6%
Los Angeles County	10,038,388	2,322,174	23.1%
San Luis Obispo County	276,517	50,846	18.4%
Santa Barbara County	435,850	98,487	22.6%
Ventura County	840,833	206,217	24.5%
Service Area Total	12,457,324	2,933,633	23.5%
Census Tract 7011*	988	52	5.3%
Adjacent Communities:			
Brentwood	26,463	3,915	14.8%
West Los Angeles	34,515	3,699	10.7%
Westside	27,964	5,112	18.3%
Westwood	55,057	4,146	7.5%
Adjacent Communities Total	143,999	16,872	11.7%

Notes: \*Includes residents of the WLA Campus.

Sources: (U.S. Census Bureau, 2017d; U.S. Census Bureau, 2017n; U.S. Census Bureau, 2017o)

Based on 2011-2015 data, Figure 3.15-5 shows variations across the adjacent communities and Census Tract 7011 in the percentage of children in the population (U.S. Census Bureau, 2017d; U.S. Census Bureau, 2017o). The first threshold used to establish the color classes was the Los Angeles County percentage of children (23.1 percent), which was the lower of the two reference population values. Below that value, a breakpoint was defined at half the value of the first threshold, or 4.7 percent. Above the first threshold, the higher reference population rate, for California, was not used as a threshold because it was only slightly higher than the Los Angeles County value at 23.9 percent. Instead, the next threshold was 33.1 percent. This threshold was based on the common practice of defining "meaningfully greater" in environmental justice analyses by adding 10 percentage points to a reference population percentage. The final threshold, (43.1 percent) was defined by an additional 10 percentage points.

In the specific geographies evaluated in this PEIS, none of the census tracts had child population percentages above the threshold of 33.1 percent. Census Tract 2623.02, to the northwest of and partly within 0.5 miles of the WLA Campus, had the highest child population and ranged from 23.2 percent and 33.1 percent. Census Tract 2693, located at a great distance southeast of the WLA Campus, had a similar child population percentage. The lowest concentrations of child populations included Census Tract 7011 and most of the census tracts adjacent to the WLA Campus. These census tracts had child populations of less than 11.6 percent. All of the area within 0.5 miles of the WLA Campus, except a small portion of Census Tract 2623.02, had child populations of less than 23.2 percent (U.S. Census Bureau, 2017d; U.S. Census Bureau, 2017o).

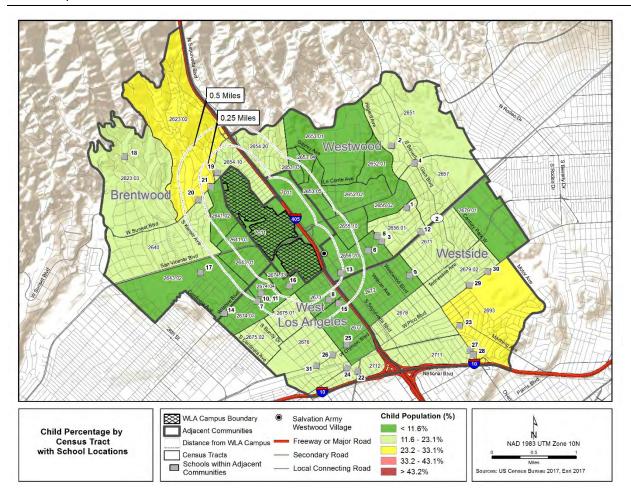


Figure 3.15-5. Children as a Percentage of Total Population by Census Tract and Schools within Adjacent Communities

#### 3.15.2.4.2 Children in the Veteran Population

Veterans may have children in their households. However, a focus on Veteran-dependent children would not substantively add to this PEIS since analysis of the overall child population is sufficient with respect to the requirements of EO 13045 and the Proposed Action.

#### 3.15.2.4.3 Schools

Children who reside outside a defined geographic area may be exposed to impacts of a Proposed Action if they attend or visit schools located within the area and impacts affect those schools. Figure 3.15-5 includes the locations of 31 schools in the adjacent communities and Census Tract 7011. Table 3.15-7 lists the name of each school, the corresponding number on Figure 3.15-5, type of school, and grade levels.

Table 3.15-7. Schools within Adjacent Communities

Number*	School	Туре	Grade Levels
1	Fairburn Avenue Elementary	Public	K - 5
2	Warner Avenue Elementary	Public	K - 5
3	Emerson Community Charter	Public	6 - 8
4	Sinai Akiba Academy	Private	K - 8
5	St. Paul the Apostle	Private	K - 8
6	WorldSpeak Language Immersion Private School	Private	K - 8
7	Brockton Avenue Elementary	Public	K - 5
8	Nora Sterry Elementary	Public	K - 5
9	Westwood Charter Elementary	Public	K - 5
10	University Senior High	Public	9 - 12
11	University Senior High Math/Art/Science/Technology Magnet	Public	9 - 12
12	Creative Center for Children	Private	K - 1
13	Fusion Academy	Private	6 - 12
14	Halstrom Academy-Brentwood	Private	6 - 12
15	New Horizon School Westside	Private	K - 5
16	Saint Sebastian School	Private	K - 8
17	Brentwood Elementary Science Magnet	Public	K - 5
18	Kenter Canyon Elementary Charter	Public	K - 5
19	Brentwood School	Private	K - 12
20	St. Martin of Tours	Private	K - 8
21	The Archer School for Girls	Private	6 - 12
22	Citizens of the World #3	Public	K - 2
23	Overland Avenue Elementary	Public	K - 5
24	The City School	Public	6 - 8
25	Arete Preparatory Academy	Private	9 - 12
26	Brawerman Elementary School - Wilshire Blvd Temple	Private	K - 6
27	Notre Dame Academy	Private	9 - 12
28	Notre Dame Academy Elementary	Private	K - 8
29	St. Timothy School	Private	K - 8
30	Temple Isaiah Preschool and Kindergarten	Private	K
31	Wildwood School	Private	K - 12

<sup>\*</sup> Number identifier corresponds with location depicted in Figure 3.15-5

Sources: (California Department of Education, 2017a) (California Department of Education, 2017b)

### 3.15.2.5 **Summary**

EO 12898 requires federal agencies to avoid taking actions that have a disproportionately high and adverse impact on low-income populations or minority populations. Populations with limited English proficiency and populations of children were also addressed above because of similar regulatory requirements for their consideration. The analyses identified the populations of concern within the adjacent communities based on percentages of the total population by census tract in 2011-2015.

High percentages of minority populations included Census Tract 7011 (which encompasses the WLA Campus and some additional housing and population), five census tracts northeast of the WLA Campus in Westwood, and three census tracts south of the WLA Campus in West Los Angeles. However, only two

of these census tracts were in the highest minority concentration groupings; none of these census tracts are immediately adjacent to the WLA Campus.

Census Tract 7011, which includes the WLA Campus, had a high percentage of persons in poverty. This reflects the focus of WLA Campus housing on homeless Veterans, who often are homeless because of very low incomes. Multiple census tracts in Westwood also had high percentages of persons in poverty. However, none of these census tracts are immediately adjacent to the WLA Campus, and several are special cases as they include dense off-campus housing for UCLA students. Students often have very low incomes but are not necessarily in poverty as many come from non-poverty families. Only one census tract had a high percentage of persons in poverty immediately adjacent to the WLA Campus (south in West Los Angeles).

High percentages of limited English-speaking households (LESH) were present in two census tracts in Westwood and one in West Los Angeles; none are immediately adjacent to the WLA Campus. There were no LESH in Census Tract 7011, which includes the WLA Campus.

None of the census tracts in the adjacent communities had high child population percentages. Four schools are located within 0.25 miles of the WLA Campus and five schools are located between 0.25 and 0.5 miles.

In summary, Census Tract 7011, which includes the WLA Campus, has minority and poverty populations of concern. In the adjacent communities, there are relatively few populations of concern near the WLA Campus. Only one census tract with a population of concern (for poverty) is immediately adjacent to (south of) the WLA Campus. When considering distance rather than adjacency, a very small portion of one other census tract with populations of concern for minorities and LESH is located within 0.25 miles of the WLA Campus (also to the south). A few additional census tracts with minority, poverty, or LESH populations of concern have portions located between 0.25 and 0.5 miles. Several schools are located within each distance band.

### 3.16 Other Past, Present, and Reasonably Foreseeable Actions

This section identifies other past, present, and reasonably foreseeable actions at the WLA Campus that are not part of the Proposed Action described in Chapter 2 of this PEIS. These actions are analyzed along with the Proposed Action to evaluate cumulative impacts in Chapter 5 of this PEIS. As defined by 40 CFR § 1508.7, cumulative impacts on the environment can result from the incremental impact of an action when added to other past, present, and reasonably foreseeable future actions. Past, present, and reasonably foreseeable actions have been defined as follows:

- 1) PAST: These include projects that previously occurred and warrant review in determining cumulative environmental impacts. Completed projects may have a cumulative impact on the WLA Campus when considered with potential impacts of the Proposed Action and alternatives.
- 2) PRESENT: These include projects that are currently occurring at the WLA Campus or in the vicinity. Information regarding present projects and associated current impacts are useful as it may directly result in changes to traffic, noise, or other environmental concerns.

3) REASONABLY FORESEEABLE: These include future projects that are proposed and anticipated and are generally included in existing planning documents. Court decisions have further clarified that reasonably foreseeable projects are those likely to occur, rather than ones that are contemplated, remote, speculative, or in the distant future.

Other past, present, and reasonably foreseeable actions were identified through a review of information sources across VA, LADOT, City of Los Angeles Department of Public Works, City of Los Angeles Department of City Planning, Los Angeles County Department of Regional Planning, LA Metro, Caltrans, and private entities within or near the project area.

Table 3.16-1 below lists five past, present, and reasonably foreseeable actions on or immediately adjacent to the WLA Campus.

Table 3.16-1. Past, Present, and Reasonably Foreseeable Actions on or adjacent to the WLA Campus

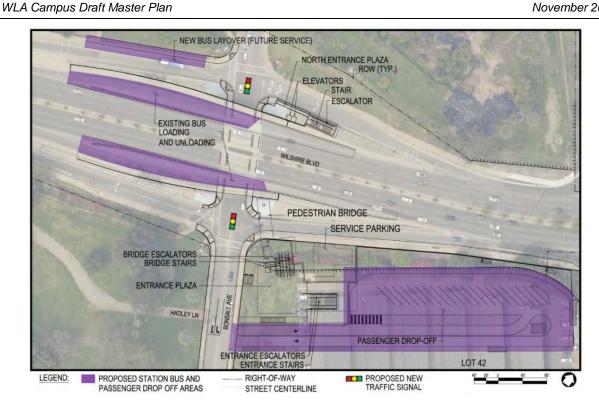
Project Name	Description	Responsible Agency
Building 209 EUL	Building 209, a previously underutilized 51,500 ft <sup>2</sup> building, was rehabilitated in accordance with the <i>SOI Standards</i> in 2015 to provide 54 new residential units for chronically homeless Veterans. Rehabilitation included seismic corrections, life safety improvements, architectural renovation, and building system upgrades. An environmental assessment (EA) was completed in 2012 (Castle-Rose, Inc., 2012).	VA
Columbarium Construction	VHA transferred 13 acres on the eastern side of the WLA Campus to NCA to expand burial options for Veterans in the greater Los Angeles area. A columbarium is currently under construction in a phased approach. The first phase will include 10,000 to 25,000 burial niches (Figure 3.16-1). An EA was completed in 2011 (MACTEC, 2011).	VA
Purple Line Extension	LA Metro is undertaking a phased extension of the Purple Line subway line. At present, the Purple Line connects from Koreatown to Los Angeles Union Station via downtown Los Angeles. Sections 1 and 2 of the extension project are currently underway and will extend the Purple Line to Century City. Section 3 of the Purple Line extension currently in the planning phase will extend the western terminus to the WLA Campus. The new Westwood/VA Hospital Station is proposed to be located on WLA Campus property north of Building 500 (Main Hospital). VA is working with LA Metro to finalize the proposed footprint of the station (Figure 3.16-2) and address potential impacts from operation and construction of the new station. The estimated year of completion for the Purple Line extension is dependent upon continued funding and the pace of construction activities; however, LA Metro currently aims to commence operations of the new station in 2026. The Westside Subway Extension Final Environmental Impact Statement/Environmental Impact Report (EIS/EIR) was finalized in 2012 and Westside Purple Line Extension Final Supplemental EIS in 2017. More information on this project is found at https://www.metro.net/projects/purple-section3.	LA Metro

Project Name	Description	Responsible Agency
Buildings 205, 207, and 208 EULs	VA is working with third-party developers to renovate three underutilized WLA Campus buildings (Buildings 205, 207, and 208) to repurpose them into Veteran residential housing using VA's EUL authority. Approximately 160 new units of supportive housing will be provided. The renovations would include seismic corrections, interior and exterior architectural renovations, and building systems upgrades.	VA
Rehabilitation of Five Historic Buildings	The 1887 Fund, a local non-profit organization, is raising funds to rehabilitate five historically significant WLA Campus buildings (Wadsworth Chapel [Building 20], Governor's Mansion [Building 23], Superintendent's Home [Building 33], Trolley Station [Building 66], and Hoover Barracks [Building 199]) in accordance with the SOI Standards.	1887 Fund



Source: (The LA Group, n.d.)

Figure 3.16-1. Planned Columbarium



Source: (WSP, 2018a)

Figure 3.16-2. Planned LA Metro Purple Line Westwood/VA Hospital Station Location

Actions occurring off campus include both public and privately funded community development projects, such as renovation or demolition of existing buildings, construction of new facilities and development of land parcels, or transportation projects. Table 3.16-2 lists four relevant off-campus projects that are under review by the Los Angeles Department of City Planning Major Projects group that could potentially have an impact on the WLA Campus or could be impacted by the Proposed Action when considered cumulatively, based on their scope and location.

Table 3.16-2. Past, Present, and Reasonably Foreseeable Actions Occurring Near the WLA Campus

Project Title	Address	Description	Size	Distance to WLA
CIM Commercial Building Sale	11600 West Wilshire Blvd	Medical Office Building Sale	>240,000 ft <sup>2</sup>	0.1 miles
Santa Monica Redevelopment	11674 West Santa Monica Boulevard	Residential, Grocery, Parking	>316,000 ft <sup>2</sup>	0.4 miles
Trident Center Modernization	11355 and 11377 West Olympic Boulevard	Offices, Dining, Recreational	>342,000 ft <sup>2</sup>	0.9 miles
Fox Studios Master Plan	10201 West Pico Blvd	Media Campus	>1,099,000 ft <sup>2</sup>	2.9 miles

Source: (Los Angeles Department of City Planning, n.d.)

# 4 Environmental Consequences

This chapter describes and evaluates the potential beneficial or adverse environmental impacts resulting from the Proposed Action and Alternatives. NEPA requires agencies to assess the potential direct and indirect impacts each alternative could have on the existing environment as characterized in Chapter 3, Affected Environment. Direct impacts are those impacts that are caused by the Proposed Action and occur at the same time and place, such as soil disturbance. Indirect impacts are those impacts related to the Proposed Action but result from an intermediate step or process, such as changes in surface water quality because of soil erosion.

The relative degree of severity of environmental impacts are defined as follows:

- None/No impact: No measurable or discernible change from current conditions.
- Minor impacts: Slight but detectable. Effects are generally short-term and highly localized.
- <u>Moderate impacts</u>: Readily apparent, as there would be a noticeable change that could result in short-term or long-term impacts.
- <u>Major impacts</u>: Large and highly noticeable, often long-term or permanent, and/or above a threshold of significance.
- Beneficial: A positive effect or improvement in the human environment.

For each individual resource area, an analysis is provided to document possible impacts on resources for the Proposed Action alternatives (Alternatives A through D) and the No Action alternative (Alternative E). The No Action alternative provides a comparison to describe the effects of environmental resources of the existing conditions to the four proposed alternatives. Because this PEIS is a programmatic analysis and specific projects and schedules are not yet fully defined, the assumptions used for the resource area analyses are generally those that are most conservative and would result in the greatest level of impact, even if an alternative may be implemented in a manner that is less impactful. This ensures that the PEIS considers the maximum level of impact to each resource area associated with each alternative. Assumptions used are described in the methodology sections for each resource area (Sections 4.1 through 4.15).

Potential impacts are assessed in terms of context of the action and the intensity of the potential impact per CEQ regulations (40 CFR § 1508.27). Context refers to the timing, duration, and where the impact could potentially occur. In terms of duration of potential impact, context is described as short- or long-term. Intensity refers to the magnitude or severity of the effect as either beneficial or adverse. Resource-specific impact rating criteria are provided at the beginning of each resource area section.

#### 4.1 Aesthetics

This section describes potential impacts to the aesthetic character and visual quality of the WLA Campus associated with the Proposed Action.

WLA Campus Draft Master Plan

#### 4.1.1 Evaluation Criteria

An action is deemed to have an adverse impact on aesthetics if it:

- Substantially degrades the visual character or quality of the existing setting and landscape, including open spaces;
- Introduces visual elements that are incompatible, out of scale, in great contrast, or out of character with their surroundings;
- Removes or degrades visual elements that substantially contribute to the valued visual character of the area; or
- Creates a new source of substantial light or glare that would impact light sensitive areas.

#### 4.1.2 Assessment Methods

The effects of Alternatives A through E on the aesthetic character and visual quality of the WLA Campus were evaluated qualitatively against the baseline current conditions described in Section 3.1, Aesthetics. Several variables affect the degree of visibility and visual impact of a project, including the scale and size of the project actions, distance and viewing angle, and influences of adjacent scenery or land uses. A lighting study conducted in 2018 evaluated the viewshed into and from the WLA Campus, with a particular focus on light intrusion (Lighting Design Alliance, 2018).

# 4.1.3 Alternative A (Existing Building Renovations)

Alternative A involves renovations to 33 buildings throughout the WLA Campus. The renovations would primarily be interior to the buildings, although some renovation activities would take place on the building exteriors, entrances, and nearby landscaping.

#### 4.1.3.1 Impacts from Construction

Alternative A renovation activities would primarily involve the use of hand-held construction equipment (i.e., no construction cranes) with both small and large construction vehicles (e.g., passenger vehicles, bucket-trucks, tractor trailers) being driven and parked near the buildings for the duration of the renovation activities. Construction hours would be restricted to daytime in accordance with construction noise restrictions imposed by VA standards and local ordinances, thereby minimizing the need for nighttime lighting during construction. Staging of equipment and materials may require some supplemental nighttime lighting, but any such lighting would be directed downward and would be of cutoff type to minimize light pollution. When completed in compliance with general construction practices, impacts of construction of Alternative A on the WLA Campus aesthetics and visual quality would be minor and short-term.

### 4.1.3.2 Impacts from Operations

### 4.1.3.2.1 Setting and Landscape

Alternative A is not expected to alter the WLA Campus setting and landscape existing conditions. No new building construction or changes to existing open spaces are proposed. Thus, the planned long-term operations of the renovated buildings would result in no changes to the visual quality of the setting and landscape.

# 4.1.3.2.2 Architecture and Buildings

No adverse impacts to the aesthetics of the WLA Campus architecture and buildings are anticipated under Alternative A. Renovation activities would primarily occur indoors with some minor modifications possible to building entrances, windows, and landscaping. Adherence to Mitigation Measure HIST-1, *Apply SOI Standards and CHRP*, would minimize and, in some cases, prevent introduction of visual elements incompatible with the existing aesthetic in different areas of the WLA Campus.

# 4.1.3.2.3 Light Pollution

Under Alternative A, the renovated buildings do not represent a new source of substantial light pollution. Pre-existing lighting levels would be evaluated for conformance with VA physical security requirements. While no adverse impacts are anticipated, application of Mitigation Measure AES-1, *Minimize Light Trespass*, would further minimize the effects of any necessary additions, improvements, or changes to lighting.

# 4.1.4 Alternative B (Existing Building Demolition)

Alternative B involves demolition of 33 WLA Campus buildings without replacement of the buildings. Upon completion of demolition activities, the land space previously occupied by the facilities would be returned to naturalized, open green space areas.

#### **4.1.4.1 Impacts from Construction**

Alternative B demolition activities would involve the use of large construction equipment (e.g., cranes, bulldozers, dump trucks), construction vehicles, and hand-held construction equipment for the duration of the demolition activities. Demolition hours would be restricted to daytime in accordance with construction noise restrictions imposed by VA standards and local ordinances, thereby minimizing the need for nighttime lighting. Staging of equipment and materials may require some supplemental nighttime lighting, but any such lighting would be directed downward and would be of cutoff type to minimize light pollution. When completed in compliance with general construction practices, impacts of demolition activities on the WLA Campus aesthetics and visual quality would be minor and short-term.

### 4.1.4.2 Impacts from Operations

### 4.1.4.2.1 Setting and Landscape

Following demolition, the land previously occupied by the buildings would be filled with dirt and landscaped or restored to naturalized, grassy areas with vegetative cover. These changes to the campus setting would be noticeable, creating a more open, natural look. As this change is not expected to degrade or impede scenic views and landscapes, no adverse impacts are identified for this aspect of aesthetics.

# 4.1.4.2.2 Architecture and Buildings

Overall, Alternative B facility demolition activities would have a moderate impact on the aesthetics of the WLA Campus architecture and buildings. Many buildings that contribute to the visual quality of the campus would be removed. Of the 33 buildings proposed for demolition, 18 of them are contributing elements to the WLA VA NRHD. The significance of these impacts from a historic preservation perspective is further discussed in Section 4.3, Cultural Resources Including Historic Properties.

# 4.1.4.2.3 Light Pollution

Under Alternative B, light sources would decrease across the campus as buildings and their attendant functions and light uses are removed. Therefore, no adverse effects are anticipated with regards to light pollution.

# 4.1.5 Alternative C (Demolition and New Construction)

Alternative C involves full demolition of 33 buildings throughout the WLA Campus and new construction of more than 3.2 million ft<sup>2</sup>. Some of the new construction would be a direct replacement for the demolished buildings and would occupy the existing footprints of demolished buildings and already developed areas, such as parking lots. However, approximately 680,850 ft<sup>2</sup> of new construction is proposed in open park areas of the North Campus.

#### 4.1.5.1 Impacts from Construction

Demolition and new building construction activities would involve the use of large construction equipment (e.g., cranes, bulldozers, dump trucks), construction vehicles, and hand-held construction equipment for the duration of the activities. Construction and demolition hours would be restricted to daytime in accordance with construction noise restrictions imposed by VA standards and local ordinances, thereby minimizing the need for nighttime lighting. Staging of equipment and materials may require some supplemental nighttime lighting, but any such lighting would be directed downward and would be of cutoff type to minimize light pollution. Given the scope and scale of construction and demolition activities proposed under Alternative C, it is expected that construction activities would be more noticeable to patients, visitors, and neighbors that those of Alternatives A or B. However, when completed in compliance with general construction practices, impacts of construction and demolition activities on the WLA Campus aesthetics and visual quality would be still expected to be minor and short-term.

# 4.1.5.2 Impacts from Operations

# 4.1.5.2.1 Setting and Landscape

Alternative C involves the construction of more than 3.2 million ft<sup>2</sup> of new construction. Redevelopment on the South Campus is expected to be of similar scale and height as the existing building to be replaced, and therefore no visual changes are expected for the South Campus setting. On the North Campus, however, approximately 680,850 ft<sup>2</sup> of new residences for homeless Veterans are projected on current open parkland. Figure 2.2-3 depicts the areas under consideration for construction, including the Heroes Golf Course, Veterans Barrington Park, a parcel between the golf course and Veterans Barrington Park, MacArthur Field, and open land south of the CalVet facility.

New construction on open parkland would represent a noticeable, moderate change to the landscape and viewsheds from and into these areas for campus residents, visitors, and bordering neighbors. The extent of the impact on the viewsheds would depend on the height and massing of the buildings and the individual viewer's perspective. Visual contrast to the neighbors to the north and northwest of the campus would likely be most noticeable given the site topography, where those areas are situated on higher ground and look down into the campus. Application of the *SOI Standards* to design plans and, once finalized through consultation, adherence to the Campus Historic Resource Plan (CHRP) in the siting and design of new construction would greatly minimize impacts on viewsheds. VA will also retain the existing vegetation buffers on the north and northwest property boundaries and expand them as necessary to provide visual shielding to neighboring residential properties, in accordance with Mitigation Measure AES-2, *Maintain Vegetation Buffers*, detailed in Chapter 6, Mitigation, Monitoring, Minimization, and Best Practices.

## 4.1.5.2.2 Architecture and Buildings

Similar to Alternative B, Alternative C proposes the demolition of 33 buildings on campus, 18 of which are contributing elements to the NRHD. Therefore, demolition activities would be a noticeable change that would alter the valued visual character of the WLA Campus, resulting in an adverse impact on the aesthetics of the WLA Campus architecture and buildings. The significance of these impacts from a historic preservation perspective is further discussed in Section 4.3, Cultural Resources Including Historic Properties.

Proposed new construction in areas within the historic district could also present a significant impact if not built with materials, colors, height, and massing that are designed to fit within the context of the existing buildings on the WLA Campus. Adherence to Mitigation Measure HIST-1, *Apply SOI Standards and CHRP* would minimize the visual effect of new construction.

# 4.1.5.2.3 Light Pollution

Operational activities under Alternative C may result in some noticeable impacts from lighting on the WLA Campus and into neighboring properties. While lighting in redeveloped areas of the campus is expected to be consistent with current lighting levels, the addition of new residential buildings on previously vacant lands on the North Campus introduces new light sources that have the potential to cause some lighting trespass onto neighboring properties. Given the residential use of the future buildings,

interior light use is expected to follow similar patterns as those of adjacent residential neighborhoods, where interior light use would decrease as evening advances. Exterior lights would need to be added in these new developments to provide appropriate illumination of streets, sidewalks, and building entrances for new residents. While no significant impacts are anticipated, VA would apply Mitigation Measure AES-1, Minimize Light Trespass, for any necessary additions to lighting.

## 4.1.6 Alternative D (Renovation, Demolition, and New Construction)

As described in Chapter 2, Alternatives, Alternative D includes a combination of renovations of existing buildings on the WLA Campus, demolition of some existing buildings with no replacement construction, demolition and construction of new buildings within existing building site areas, and construction of new buildings on existing parking areas, athletic fields, and vacant lands on the WLA Campus.

# **4.1.6.1** Impacts from Construction

Given that the scale of potential demolition, renovation, and new construction is similar to that of Alternative C, impacts from construction on the campus aesthetics are expected to also be similar. During the period of construction, construction equipment and vehicles would be visible throughout the campus. Construction and demolition hours would be restricted to daytime, thereby minimizing the need for nighttime lighting. Staging of equipment and materials may require some supplemental nighttime lighting, but any such lighting would be directed downward and would be of cutoff type to minimize light pollution. Therefore, impacts to the aesthetics and visual quality of the campus from construction activities would be expected to be minor and short-term, and would not constitute a significant adverse effect.

### 4.1.6.2 Impacts from Operations

### 4.1.6.2.1 Setting and Landscape

Impacts to the setting and landscape of the WLA Campus under Alternative D are expected to be similar to those of Alternative C. While Alternative D endeavors to renovate existing campus buildings wherever feasible, the alternative includes a similar level of new construction for residential buildings on open parkland on the North Campus. This would result in some impacts to the viewsheds, particularly to neighbors to the north and northwest of the campus. Application of the *SOI Standards* to design plans and, once finalized through consultation, adherence to the CHRP in the siting and design of new construction would greatly minimize impacts on viewsheds (Mitigation Measure HIST-1). VA is also expected to retain the existing vegetation buffers on the north and northwest property boundaries and expand them as necessary to provide visual shielding to neighboring residential properties, in accordance with Mitigation Measure AES-2, *Maintain Vegetation Buffers*.

### 4.1.6.2.2 Architecture and Buildings

Alternative D considers the potential demolition of the same 33 buildings proposed for demolition under Alternatives B and C. However, to the extent feasible given the condition of the buildings, their proposed future use, their inherent historic value, and cost considerations, VA would aim to renovate these buildings rather than demolish and replace them. Renovation of existing buildings, particularly those

than contribute to the historic designation of the campus, would retain the visual character and quality of North Campus. The degree of impact of Alternative D would therefore be contingent on the number and location of buildings proposed for demolition, but it would be up to and no greater than the impacts identified under Alternatives B and C. Given the proposed demolition of buildings that contribute to the historic fabric of the campus, Alternative D has the potential to permanently alter the valued visual character of the WLA Campus, resulting in an adverse impact on the aesthetics of the WLA Campus architecture and buildings. The significance of these impacts from a historic preservation perspective is further discussed in Section 4.3, Cultural Resources Including Historic Properties.

Proposed new construction in areas within the historic district would be built with materials, colors, height, and massing that would be designed to fit within the context of the existing buildings on the WLA Campus, thereby minimizing their visual effect, in accordance with Mitigation Measure HIST-1, *Apply SOI Standards and CHRP*.

## 4.1.6.2.3 Light Pollution

Operational activities under Alternative D may result in some noticeable impacts from lighting on the WLA Campus and into neighboring properties. Lighting in redeveloped areas of the campus, including the new South Campus medical facilities and any replacement construction in the North Campus, is expected to be consistent with current lighting levels. For any renovated existing buildings, pre-existing lighting levels would be evaluated for conformance with VA physical security requirements, and some limited additional external illumination may be required. However, the additions of new residential buildings on previously vacant lands on the North Campus have the greatest potential to cause lighting trespass onto neighboring properties. Given the residential use of the future buildings, interior light use is expected to follow similar patterns as those of adjacent residential neighborhoods, where interior light use would decrease as evening advances. Exterior lights would be needed in these new developments to provide appropriate illumination of streets, sidewalks, and building entrances for new residents. While no significant impacts are anticipated, VA would apply Mitigation Measure AES-1, *Minimize Light Trespass*, for any necessary additions to lighting.

## 4.1.7 Alternative E (No Action)

Under Alternative E, the WLA Campus would remain the same as present day. No construction activities tied to the Proposed Action would occur on the WLA Campus.

## **4.1.7.1** Impacts from Construction

Under Alternative E, there would be no renovations, new construction, or demolition to the existing landscape, buildings, architecture, lighting, or open areas on the WLA Campus. Therefore, no construction-related impacts to aesthetics would occur as a result of Alternative E.

### 4.1.7.2 Impacts from Operations

Under Alternative E, there would be no change to the setting, landscape, buildings, architecture, lighting, or open areas on the WLA Campus as the existing buildings and operations would remain the same as

present day. No operational changes of existing uses would occur; thus, no impacts on the WLA Campus would occur.

# 4.2 Air Quality

This section describes potential impacts to air quality associated with the proposed realignment and development at the WLA Campus. The analysis focuses on criteria air pollutants, TACs, GHGs, and odors.

#### 4.2.1 Evaluation Criteria

An alternative in this PEIS is considered to result in an adverse impact related to the following emissions if it would:

- For criteria pollutants, result in annual criteria pollutant emissions during construction or operation in excess of EPA general conformity *de minimis* thresholds, as stated in Table 3.2-5; or
- Exceed SCAQMD air quality significance thresholds for mass daily criteria pollutant emissions during construction or operation, as shown in Table 4.2-1.

Pollutant	Construction	Operation
NOx	100 lbs/day	55 lbs/day
ROG/VOC	75 lbs/day	55 lbs/day
PM <sub>10</sub>	150 lbs/day	150 lbs/day
PM <sub>2.5</sub>	55 lbs/day	55 lbs/day
SOx	150 lbs/day	150 lbs/day
CO	550 lbs/day	550 lbs/day
Lead	3 lbs/day	3 lbs/day

**Table 4.2-1. SCAQMD Air Quality Significance Thresholds** 

- For TACs, result in a maximum incremental risk of cancer greater than or equal to 10 in one million, and/or a hazard index exceeding 1.0.
- For GHG, generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment; and/or conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs.
- For odors, create an objectionable odor at the nearest sensitive receptor.

### 4.2.2 Assessment Methods

### 4.2.2.1 Criteria Pollutants

Emissions of criteria pollutants during construction and operation were modeled using the CalEEMod, Version 2016.3.2 computer program (California Air Pollution Control Officers Association, 2017). For construction emissions, assumptions regarding construction equipment (type and number) to be used on site were determined based on CalEEMod defaults and reviewed by VA GLAHS to take into consideration on-site spacing restrictions that would affect the equipment types and numbers that could

operate simultaneously within the boundaries of the site. For operational area-source emissions, direct area emissions were calculated based on the incremental difference in building square footage. The following conservative assumptions were used:

- Construction schedule assumes all projects considered under each alternative would be conducted within the 10-year planning timeframe.
- Future use of all existing buildings on the North Campus was assumed to be health care. While many of the existing buildings to be renovated or replaced in the North Campus are expected to be repurposed for residential uses, there is some uncertainty about the fate of all the buildings. Therefore, to make the most conservative assumption, the future facility use selected was health care<sup>28</sup>, as it represents the highest emissions rates of all potential future building types (worst case).
- Although renovated or newly constructed buildings are expected to be more modern or efficient (see Section 4.14, Utilities), future direct area emissions were estimated with no reduction in energy intensity (i.e., energy use per square foot of building space) using the default parameters of the model.

For operational mobile-source emissions of criteria pollutants, assumptions were based on CalEEMod defaults were used based on building square footage and "worst case" future use. For the No Action Alternative (Alternative E), future trip rates were assumed to remain the same as current conditions in the absence of expansion at the WLA Campus. That is, no new employee, patient, or delivery trips would occur in the absence of new buildings and services, including parking.

Indirect area-source emissions of criteria pollutants resulting from energy use (electricity and water use) are too speculative to evaluate, because it is unknown what proportion of electricity consumed under the PEIS alternatives is produced in the South Coast Air Basin. Additionally, emissions associated with grid-based power are presumably already included in the regional emissions budget and covered under the current SIP.

For evaluation of criteria pollutants, a NEPA air quality significance analysis differs from the general conformity analysis in that all project emissions of criteria pollutants are considered regardless of the attainment status of the area where the Proposed Action takes place. Therefore, CO, NO<sub>2</sub>, PM<sub>2.5</sub>, PM<sub>10</sub>, ozone precursors (VOCs and NO<sub>x</sub>), and SO<sub>2</sub> were all considered in the impact analysis. For the general conformity applicability, only ozone precursors (VOCs and NO<sub>x</sub>), PM<sub>2.5</sub>, and PM<sub>10</sub> are included in the analysis because the WLA Campus is in a nonattainment area for those pollutants. While the campus is also in a non-attainment area for lead, this pollutant was not considered further in the analysis given there are no direct sources of lead as part of the alternatives and any lead-containing particulate matter generated as part of the demolition of buildings containing lead-based paint would be managed in

<sup>&</sup>lt;sup>28</sup> CalEEMod facility building type definitions used in the air quality modeling for North Campus: Medical office building (health care): This is a facility that provides diagnoses and outpatient care on a routine basis but is unable to provide prolonged in-house medical and surgical care. One or more private physicians or dentists generally operate this type of facility.

Mid-rise apartment (residential): Mid-rise apartments in rental buildings that have between 3 and 10 levels. (California Air Pollution Control Officers Association, 2017)

accordance with applicable federal, state, and local abatement requirements. Impact from asbestos emissions is also not considered further because of similar abatement requirements.

#### 4.2.2.2 Health Risk Assessment

A health risk assessment (HRA) was conducted to determine the potential of exposing sensitive receptors to TACs. The HRA assessed cancer risk and acute and chronic non-cancer health impacts from diesel exhaust PM, NO<sub>2</sub>, and CO emissions per the guidance in the Office of Environmental Health Hazard Assessment (OEHHA) *Air Toxics Hot Spots Program Guidance Manual for the Preparation of Risk Assessments* (California Environmental Protection Agency, 2015). Diesel exhaust PM, NO<sub>2</sub>, and CO emissions are primarily generated from the operation of diesel-burning construction equipment.

Assessing the potential cancer impact from diesel exhaust PM, NO<sub>2</sub>, and CO involves estimating the number of individuals that develop cancer per million individuals due to exposure to a pollutant over the construction timeframe. The Hotspot Analysis and Reporting Program version 2 (HARP2) Risk Assessment Standalone Tool (RAST) was used to estimate cancer risk to both residents and workers. HARP2 RAST can calculate cancer and non-cancer risk for multiple pathways including soil, drinking water, and fish ingestion; however, only the inhalation pathway was used to assess the impacts of the subject air pollutants. HARP2 RAST calculates a risk value that is a pollutant-specific probability of developing cancer. Multiplying the risk value from the model by one million provides the chance in a million of a person developing cancer.

Non-carcinogenic risk was assessed by calculating a hazard indices (HIs) for each of the three pollutants. An HI is calculated as a ratio of the maximum "worst-case" ambient air pollutant concentration divided by the OEHHA Reference Exposure Level (REL) and compared to the HI threshold of 1.0 (California Environmental Protection Agency, 2015). An HI greater than 1.0 indicates there is a non-carcinogenic health risk, while an HI less than or equal to 1.0 indicates that adverse health effects are not expected to result from exposure to emissions of that pollutant.

Estimating ambient air concentration of air pollutants can be done using a variety of air dispersion models. Options vary from screening level tools to refined models requiring a detailed input (e.g., meteorological, terrain, and receptor data). This screening analysis used EPA's AERSCREEN (version 16216) model to estimate the ambient concentration of the diesel exhaust PM, NO<sub>2</sub>, and CO emissions. AERSCREEN is a screening model based off EPA's AERMOD model. The AERSCREEN model was chosen over AERMOD largely because some of the data needed for a more rigorous dispersion model like AERMOD (e.g., details on buildings such as height and orientation) are not known in this early planning stage. Using a more robust model such as AERMOD would likely result in lower estimated ambient air concentrations of the modeled pollutants. This in turn would result in lower estimated cancer and non-cancer risks.

The calculated pollutant ambient air concentrations estimated using AERSCREEN were used as the input to the HARP2 RAST model to estimate cancer and non-cancer risk. The following assumptions were used to analyzed cancer and non-cancer risks:

- The AERSCREEN model was run using the outputs from the CalEEMod model, which are inherently conservative as previously described, and used the emissions rates from the highest year of emissions as a worst case.
- Residents and workers were exposed to construction emissions over the entire 10-year construction timeframe (regardless of actual location of individual projects relative to those sensitive receptors).
- Worker exposure was assumed to be over an eight-hour day for 250 days per year.
- The breathing rates of residents was assumed to be associated with light intensity, while workers had a moderate breathing intensity rate.
- Mitigation measures used in estimating the pollutant emission rates from CalEEMod were assumed to be in place when estimating the ambient air pollutant concentrations using the AERSCREEN model.

#### 4.2.2.3 Greenhouse Gases

The methodology used in this PEIS to analyze the project's contribution to global climate change includes a quantification of GHG emissions. The purpose of calculating the project's GHG emissions is for informational and comparative purposes, as neither CARB nor SCAQMD has adopted a quantifiable threshold for evaluating whether project-generated GHGs would be considered a significant impact. The determination of significance is focused on project consistency with the 2016-2040 RTP/SCS, which outlines the strategies, programs, and projects to be implemented in Southern California to meet or exceed GHG reduction targets.

CalEEMod Version 2016.3.2 was used to quantify GHG emissions associated with construction of individual development projects and operational sources associated with those projects. CalEEMod allows for the input of project-specific information and is designed to model construction emissions for land use development projects based on building size, land use and type, and disturbed acreage. CalEEMod also calculates operational GHG emissions associated with a project at buildout, including those emissions resulting from transportation (trip generation), electricity use, natural gas use, solid waste generation, water and wastewater use, and other area sources (e.g., landscaping) (California Air Pollution Control Officers Association, 2017).

# 4.2.3 Alternative A (Existing Building Renovations)

Alternative A involves renovations to buildings on the WLA Campus. These renovations would generally affect the interior of those buildings; however, some buildings may have exterior modifications to facades and entrances. The footprint of the existing buildings would not change significantly. None of the buildings would be demolished or new buildings constructed.

# **4.2.3.1 Impacts from Construction**

#### 4.2.3.1.1 Criteria Pollutants

Alternative A renovations would primarily involve the use of hand tools and would not be anticipated to generate a significant amount of criteria pollutants. Little ground disturbance is anticipated as renovations are mainly interior construction activities. Therefore, anticipated potential impacts to air quality are considered minor for this resource area.

#### 4.2.3.1.2 Toxic Air Contaminants

No HRA screening was performed for Alternative A for diesel exhaust PM, NO<sub>2</sub>, and CO emissions given that renovations are mainly interior construction activities and potential impacts to air quality as well as sensitive receptors are considered minor.

#### 4.2.3.1.3 Greenhouse Gases

Alternative A renovations would primarily involve the use of hand tools and would not be anticipated to generate a significant amount of GHG emissions. Therefore, potential impacts to air quality are considered minor for this resource area under Alternative A.

#### 4.2.3.1.4 Odors

Construction activities associated with Alternative A could result in odors, mainly from diesel exhaust emitted by equipment. These odors would be temporary, would occur during daytime hours during the construction period, and would disperse quickly. Therefore, potential direct odor impacts of Alternative A would be minor. No indirect impacts would occur.

### 4.2.3.2 Impacts from Operations

## 4.2.3.2.1 Criteria Pollutants

Future operational emissions of criteria pollutants associated with Alternative A would be lower than current operational emissions primarily due to the potential change in use of most of the buildings on the North Campus. While most of the buildings renovated on the South Campus would retain their health care functions, most of the renovated buildings on the North Campus, which currently have a mix of health care, administrative, and other support functions, would be repurposed for residential use for homeless Veterans. Operation of multi-unit housing would generate fewer criteria pollutants than prior functions. Therefore, no direct or indirect impacts on regional air quality are anticipated.

### 4.2.3.2.2 Toxic Air Contaminants

No additional sources of TACs are expected to be introduced to the WLA Campus as part of the operation of the renovated buildings under Alternative A. Therefore, no operational impacts from TACs are anticipated.

#### 4.2.3.2.3 Greenhouse Gases

Future operational emissions of GHGs associated with Alternative A would be lower than the original operational emissions primarily due to the potential change in facility use of most of the buildings, as described in Section 4.2.3.2.1, Criteria Pollutants. Therefore, no impacts are anticipated as GHG operational emissions would decrease under Alternative A.

The 2016-2040 RTP/SCS promotes compact, transit-oriented development. Alternative A is consistent with this goal by increasing housing and promoting better building utilization in areas served by already existing and future transit options.

#### 4.2.3.2.4 Odors

Alternative A does not involve the use of any net new incinerators, which could be a source of odor emissions. Other minor sources for odors such as new garbage dumpsters on the WLA Campus could expose on-site sensitive receptors to odors; however, this type of odor exposure is unlikely. VA would continue to comply with regulatory requirements and best practices so that on-site minor odor sources, such as garbage dumpsters, would not adversely affect sensitive receptors. Therefore, odors are not anticipated under Alternative A.

# 4.2.4 Alternative B (Existing Building Demolition)

Alternative B involves demolition of 33 buildings comprising nearly 1.75 million ft<sup>2</sup> of building at the existing WLA Campus. Implementing Alternative B would result in a net decrease in building square footage on the WLA Campus. Prior to demolition activities, existing tenants and services would be relocated to other buildings on the WLA Campus. There would be approximately 22.8 acres of ground disturbance associated with demolition activities for Alternative B. Athletic fields and vacant land would not be changed under Alternative B.

### 4.2.4.1 Impacts from Construction

#### 4.2.4.1.1 Criteria Pollutants

Alternative B demolition activities include site preparation (e.g., clearing), trenching, filling and grading, and asphalt removal and would occur over a period of 10 years, beginning in 2019 and continuing until 2029. Demolition activities typically require the use of concrete saws, heavy trucks, excavating and grading equipment (tractors and forklifts), and other mobile and stationary construction equipment. The types of criteria pollutants generated by demolition activities are typically  $NO_x$  and PM (dust and exhaust), although CO and ROG are also emitted during operation of fossil fuel-powered construction equipment.

Direct, demolition-related emissions of criteria pollutants were quantified using CalEEMod. Table 4.2-2 shows the results. Direct demolition-related emissions of criteria pollutants from Alternative B are estimated to be substantially lower than the significance thresholds. In addition, demolition emissions presented in Table 4.2-2 conservatively assume that all demolition would occur in a single year to determine the "worst case" impacts of maximum annual emissions. In actuality, only a portion of these

emissions would occur in any year. The direct impact on regional air quality would be minor and temporary. No indirect impacts are expected to occur.

Table 4.2-2. Summary of Modeled Annual Emissions of Criteria Pollutants and Precursors
Associated with Alternative B (Tons/Year)

Year	VOC/ROG	NOx	NO <sub>2</sub>	СО	PM <sub>10</sub>	PM <sub>2.5</sub>
Demolition Emissions	0.79	7.40	5.55	6.64	0.45	0.38
de minimis Threshold	10	10	100	100	100	70

Source: (Booz Allen Hamilton, 2018a)

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Direct demolition-related emissions of criteria pollutants were also calculated in pounds per day using the results above (Table 4.2-3). Direct demolition-related emissions of criteria pollutants from Alternative B would be substantially lower than the SCAQMD mass daily thresholds. In addition, demolition emissions presented in Table 4.2-3 also conservatively assume that all demolition activities would occur in a single year to determine the "worst case" impacts of maximum annual emissions. Only a portion of these emissions would occur in any year. The direct impact on regional air quality would be minor. No indirect impacts would occur.

Table 4.2-3. Summary of Modeled Annual Emissions of Criteria Pollutants and Precursors Associated with Alternative B (Pounds/Day)

Year	VOC/ROG	NO <sub>x</sub>	CO	PM <sub>10</sub>	PM <sub>2.5</sub>
Demolition Emissions	6.45	60.13	53.99	3.66	3.06
Mass Daily Threshold	75	100	550	150	55

Source: (Booz Allen Hamilton, 2018a)

### 4.2.4.1.2 Toxic Air Contaminants

Table 4.2-4 shows the resident and worker cancer risk for PM generated from the exhaust of diesel burning equipment used in Alternative B construction activities as well as any diesel PM<sub>2.5</sub> emissions from vehicle activity during operations over the 10-year construction period. The cancer risk for both worker and resident exposure does not exceed the threshold of 10; therefore, impacts are not considered significant.

Table 4.2-4. Excess Cancer Risk Assessment Results from Alternative B.

Pollutant	Excess Cancer Risk Worker (in a million)	Excess Cancer Risk Resident (in a million)	Excess Cancer Risk Threshold (in a million)
Diesel PM	3.36	1.96	10

Source: (Booz Allen Hamilton, 2018b)

Table 4.2-5 lists the HIs for each of the three pollutants. They do not exceed the SCAQMD threshold of 1.0; therefore, impacts are not considered significant.

Concentration Max from Hazard **Emissions AERSCREEN** Hazard Index (lbs/hr) **REL Threshold Pollutant**  $(ug/m^3)$ Index 1.0 Diesel PM 0.05 0.29 125 0.002  $NO_2$ 470 1.0 0.64 4.0 0.009 CO 0.61 0.00017 1.0 3.8 23,000

Table 4.2-5. Hazard Indices for Pollutants from Alternative B

Source: (Booz Allen Hamilton, 2018b)

#### 4.2.4.1.3 Greenhouse Gases

Demolition-related GHG emissions associated with Alternative B were quantified using CalEEMod Version 2016.3.2 (Booz Allen Hamilton, 2018a). Construction-related GHG emissions associated with Alternative B are 987 metric tons of carbon dioxide equivalent (MTCO<sub>2</sub>e), amortized over 30 years are 33 MTCO<sub>2</sub>e per year. Thus, construction-related GHG emissions would not make a significant contribution to cumulative GHG emissions and global climate change. This impact would be minor.

### 4.2.4.1.4 Odors

Construction activities associated with Alternative B could result in odors mainly from diesel exhaust emitted by equipment. These odors would be temporary, would occur during business hours during the construction period, and would disperse quickly given the wind in the area. Therefore, potential direct odor impacts of Alternative B during demolition would be minor. No indirect impacts would occur.

### 4.2.4.2 Impacts from Operations

Alternative B involves demolition of existing buildings and the conversion of these building site areas into naturalized, open grassy areas resulting in minimal beneficial changes pertaining to air quality due to the removal of buildings and the revegetation of the open grassy areas. There would be no increased generation of criteria pollutants, TAC, or any odor sources. Thus, no impacts from operations are anticipated to result.

Regarding GHG emissions, the 2016-2040 RTP/SCS promotes compact, transit-oriented development. Alternative B is not consistent with this goal by demolishing infrastructure in this developed area near existing and future transit options.

# 4.2.5 Alternative C (Demolition and New Construction)

Alternative C would involve construction of approximately 3.2 million new gross ft<sup>2</sup> of residential buildings and health care facilities at the WLA Campus. Alternative C would also involve the demolition of over 1.75 million ft<sup>2</sup> of existing structures on the WLA Campus, resulting in approximately 1.5 million net new ft<sup>2</sup> on the WLA Campus. There would be approximately 58.1 acres of ground disturbance associated with demolition activities for Alternative C. Prior to demolition activities, existing tenants and services would be relocated to other buildings on the WLA Campus. In addition, parking areas, athletic fields, and vacant land are included under Alternative C given new building construction would occur at these locations.

## **4.2.5.1** Impacts from Construction

#### 4.2.5.1.1 Criteria Pollutants

Demolition activities would involve large construction-related equipment but would occur within previously disturbed and graded areas. Foreseeable construction and demolition activities for Alternative C include site preparation (e.g., demolition and clearing/grubbing), trenching, grading and excavation, building construction, asphalt paving, and application of architectural coatings. Construction activities typically require the use of concrete saws (demolition), heavy trucks, cranes, excavating and grading equipment (tractors and forklifts), and other mobile and stationary construction equipment. The types of criteria pollutants generated by construction activities are typically NO<sub>x</sub> and PM (dust and exhaust), although CO and ROG are also emitted during operation of fossil fuel-powered construction equipment.

Direct, construction-related emissions of criteria pollutants were quantified using CalEEMod. The results are shown in Table 4.2-6.

Table 4.2-6. Summary of Modeled Annual Emissions of Criteria Pollutants and Precursors
Associated for Alternative C Construction Only (tpy)

Year	VOC/ROG	NO <sub>x</sub>	$NO_2$	СО	PM <sub>10</sub>	$PM_{2.5}$
Total 2019	2.14	16.26	12.20	13.40	1.76	1.20
Total 2020	6.66	27.00	20.25	26.25	2.48	1.62
Total 2021	1.78	13.42	10.06	12.92	1.26	0.80
Total 2022	2.99	7.69	5.77	7.82	0.82	0.46
Total 2023	1.93	8.61	6.46	9.34	0.80	0.50
Total 2024	3.26	14.68	11.01	16.79	1.26	0.76
Total 2025	5.07	11.31	8.48	13.37	1.05	0.59
Total 2026	1.42	8.72	6.54	10.52	0.65	0.40
Total 2027	3.17	9.27	6.95	11.86	0.74	0.46
Total 2028	0.80	7.86	5.90	9.80	0.60	0.37
Total 2029	0.28	2.78	2.08	3.46	0.21	0.13
de minimis Threshold	10	10	100	100	100	70

**Bold** indicates exceedance.

Source: (Booz Allen Hamilton, 2018a)

Because all reasonably foreseeable emissions, both direct and indirect, predicted to result from the Proposed Action are taken into consideration under the general conformity rule, construction-related and operational emissions were combined to determine the impacts of maximum annual construction and operational emissions for Alternative C. Table 4.2-7 below shows the results.

Table 4.2-7. Summary of Modeled Annual Emissions of Criteria Pollutants and Precursors Associated with Alternative C (Construction and Operations) (tpy)

Year	VOC/ROG	NO <sub>x</sub>	NO <sub>2</sub>	СО	PM <sub>10</sub>	PM <sub>2.5</sub>
Total 2019	2.14	16.26	12.20	13.40	1.76	1.20
Total 2020	6.66	27.00	20.25	26.25	2.48	1.62
Total 2021	8.05	19.64	14.73	41.91	6.75	2.91
Total 2022	2.43	6.46	4.85	3.96	0.57	0.38

Year	VOC/ROG	NO <sub>x</sub>	NO <sub>2</sub>	СО	PM <sub>10</sub>	PM <sub>2.5</sub>
Total 2023*	0.35	2.37	1.78	-5.18	-2.15	-0.32
Total 2024	6.11	20.91	15.69	34.22	8.03	2.69
Total 2025	9.12	20.07	15.06	37.94	13.24	3.98
Total 2026	3.40	12.00	9.00	20.49	5.59	1.82
Total 2027	4.95	11.90	8.93	19.85	11.05	3.24
Total 2028	1.75	6.52	4.89	6.57	8.20	2.35
Total 2029*	0.28	2.78	2.08	3.46	0.21	0.13
Total 2030	4.01	11.75	8.81	26.27	12.19	3.33
de minimis Threshold	10	10	100	100	100	70

**Bold** indicates exceedance.

Source: (Booz Allen Hamilton, 2018a)

As shown in Table 4.2-6, the direct construction-related emissions of criteria pollutants from Alternative C would be over the significance thresholds for NO<sub>x</sub> in 2019, 2020, 2021, 2024, and 2025. Construction-related emissions of criteria pollutants combined with operational emissions under Alternative C (Table 4.2-7) would be over the significance thresholds for NO<sub>x</sub> in 2019, 2020, 2021, 2024, 2025, 2026, 2027, and 2030. The emission estimates show these years exceed the thresholds because of the large number of concurrent construction projects on the WLA Campus and is primarily attributable to on-site emissions from construction equipment. The change in the operational baseline is due to the assumptions in the change in use of buildings and additional new construction. However, these are very conservatively modeled results. In implementing Alternative C, it is likely some or most of the existing North Campus facilities being demolished would be replaced with residential facilities rather than health care facilities as modeled, resulting in lower emissions. In addition, the modeled emissions assume all Alternative C projects are moving forward within the 10-year construction timeframe.

Applying Mitigation Measures AQ-2: *Reduce Heavy Equipment Emissions*, *UT-1: Apply Sustainable Building Design Standards*, and TT-1: *Implement Transportation Demand Management Program* would reduce NO<sub>x</sub> emissions to below *de minimis* levels as shown in Table 4.2-8, except for in 2024, 2025 and 2030. Because emissions exceed significance thresholds even with implementation of these mitigation measures, the direct impact on regional air quality would still be significant and unavoidable.

Table 4.2-8. Summary of Modeled Annual Mitigated Emissions of Criteria Pollutants and Precursors Associated with Alternative C (Construction and Operations) (Tons/Year)

Year	VOC/ROG	NO <sub>x</sub>	NO <sub>2</sub>	СО	PM <sub>10</sub>	PM <sub>2.5</sub>
Total 2019	0.56	2.85	2.14	13.37	0.90	0.39
Total 2020	4.04	6.66	4.99	26.65	1.14	0.36
Total 2021	4.01	8.77	6.58	32.41	3.79	1.15
Total 2022	1.76	1.15	0.86	3.46	0.08	0.42
Total 2023*	-0.39	-4.10	-3.07	-4.89	-2.61	-0.68
Total 2024	4.56	10.16	7.62	30.63	5.61	1.67
Total 2025	7.66	11.19	8.39	30.80	9.46	2.70
Total 2026	2.38	5.23	3.92	16.60	3.40	1.02

<sup>\*</sup> Overall emissions shown as negative values are due to a large decrease in operational emissions either because of a change in the use of the building or the demolition of existing buildings.

Year	VOC/ROG	NOx	NO <sub>2</sub>	СО	PM <sub>10</sub>	PM <sub>2.5</sub>
Total 2027	3.64	2.19	1.64	11.36	6.41	1.75
Total 2028*	0.43	-2.57	-1.92	-4.98	2.15	0.51
Total 2029	0.09	0.54	0.40	3.78	0.11	0.04
Total 2030	3.69	10.66	8.00	21.38	9.48	2.59
de minimis Threshold	10	10	100	100	100	70

**Bold** indicates exceedance.

Source: (Booz Allen Hamilton, 2018a)

Exceedance of the *de minimis* thresholds triggers the need for a general conformity determination given that emissions are expected to have a negative effect on the SCAQMD's ability to comply with its SIP. A general conformity determination was not performed as part of this PEIS because of the "worst case" nature of Alternative C. Should VA decide to implement Alternative C, either additional mitigation measures or adjustments to the construction schedule would be implemented to reduce NO<sub>x</sub> emissions to below *de minimis* levels or VA would meet with SCAQMD personnel to determine if the area SIP can accommodate the additional emissions. Either method would ensure the Proposed Action does not impact ambient air quality and VA complies with the general conformity determination requirements. If VA makes changes to Alternative C to reduce emissions below *de minimis* levels, then a general conformity determination would not be necessary.

Direct, construction-related emissions of criteria pollutants were also calculated in pounds per day (Table 4.2-9). As shown in Table 4.2-9, the direct construction-related emissions of criteria pollutants from Alternative C would exceed the SCAQMD mass daily thresholds for NO<sub>x</sub> in 2019, 2020, 2021, and 2024. As discussed previously, this is due to the large number of construction and demolition activities happening concurrently on the WLA Campus and is primarily attributable to on-site emissions from construction equipment.

Table 4.2-9. Summary of Modeled Annual Emissions of Criteria Pollutants and Precursors Associated with Alternative C Construction Only (Pounds/Day)

Year	VOC/ROG	NO <sub>x</sub>	СО	PM <sub>10</sub>	PM <sub>2.5</sub>
Total 2019	17.36	132.20	108.90	14.28	9.73
Total 2020	54.12	219.48	213.43	20.16	13.21
Total 2021	14.43	109.10	105.04	10.27	6.52
Total 2022	24.32	62.51	63.54	6.63	3.75
Total 2023	15.65	70.00	75.93	6.54	4.06
Total 2024	26.51	119.35	136.49	10.21	6.22
Total 2025	41.20	91.93	108.73	8.55	4.77
Total 2026	11.50	70.87	85.57	5.26	3.22
Total 2027	25.75	75.38	96.42	6.05	3.74
Total 2028	6.47	63.92	79.70	4.88	2.99
Total 2029	2.28	22.59	28.11	1.72	1.06
Mass Daily Threshold	75	100	550	150	55

**Bold** indicates exceedance.

<sup>\*</sup> Overall emissions shown as negative values are due to a large decrease in operational emissions either because of a change in the use of the building or the demolition of existing buildings.

Source: (Booz Allen Hamilton, 2018a)

As discussed above, through application of Mitigation Measure AQ-2: Reduce Heavy Equipment Emissions, criteria pollutant mass daily thresholds would be reduced to a level below significance as shown in Table 4.2-10.

Table 4.2-10. Summary of Modeled Annual Mitigated Emissions of Criteria Air Pollutants and Precursors Associated with Alternative C Construction Only (Pounds/Day)

Year	VOC/ROG	NO <sub>x</sub>	СО	PM <sub>10</sub>	PM <sub>2.5</sub>
Total 2019	4.57	23.16	108.67	7.30	3.14
Total 2020	32.85	54.14	216.67	9.29	2.89
Total 2021	4.48	33.28	107.90	5.50	1.97
Total 2022	19.51	21.27	66.57	5.27	4.75
Total 2023	9.84	17.96	80.82	3.73	1.41
Total 2024	16.30	40.04	144.40	5.92	2.14
Total 2025	33.64	34.06	115.73	5.61	1.97
Total 2026	5.59	23.97	91.03	2.89	0.98
Total 2027	20.31	13.45	104.40	3.25	1.16
Total 2028	2.12	12.38	87.07	2.52	0.84
Total 2029	0.74	4.36	30.72	0.89	0.30
Mass Daily Threshold	75	100	550	150	55

**Bold** indicates exceedance.

Source: (Booz Allen Hamilton, 2018a)

Once VA has more certainty in the construction schedule, timeframes, and details (e.g., type/size of construction equipment used and duration) associated with Alternative C, more refined and robust modeling can be conducted to more accurately assess the potential impacts from criteria pollutant emissions.

### 4.2.5.1.2 Toxic Air Contaminants

Table 4.2-11 shows the resident and worker cancer risk for PM generated from the exhaust of diesel burning equipment used in Alternative C construction activities without mitigation over the 10-year construction period. The cancer risk for both worker and resident exposure exceeds the SCAQMD significance threshold of 10 in one million, indicating an elevated cancer risk for residents and workers.

Table 4.2-11. Excess Cancer Risk Assessment Results from Alternative C without Mitigation

	Excess	Excess	Excess
	Cancer Risk	Cancer Risk	Cancer Risk
	Worker	Resident	Threshold
Pollutant	(in a million)	(in a million)	(in a million)
Diesel PM	22.4	13.1	10

Source: (Booz Allen Hamilton, 2018b)

The excess cancer risk estimates modeled for Alternative C can be attributed primarily to two factors: (1) the assumption that a large number of concurrent construction projects would occur on the WLA Campus over a 10-year construction period; and (2) the inherently conservative nature of the AERSCREEN

model. The diesel PM emissions are primarily generated from on-site emissions from construction equipment. Applying Mitigation Measure AQ-2: *Reduce Heavy Equipment Emissions* across all Alternative C projects would reduce diesel PM emissions, thereby reducing cancer risk as shown on Table 4.2-12.

Table 4.2-12. Excess Cancer Risk Assessment Results from Alternative C with Mitigation

Pollutant	Excess Cancer Risk Worker (in a million)	Excess Cancer Risk Resident (in a million)	Excess Cancer Risk Threshold (in a million)
Diesel PM	1.14	0.67	10

Source: (Booz Allen Hamilton, 2018b)

Table 4.2-13 lists the HIs for each of the three pollutants. They do not exceed the SCAQMD threshold of 1.0, therefore, there is no non-cancer risk from emissions of these pollutants.

Table 4.2-13. Hazard Indices for Pollutants from Alternative C without Mitigation

Pollutant	Max Emissions (lb/hr)	Concentration from AERSCREEN (ug/m^3)	REL	Hazard Index	Hazard Index Threshold
Diesel PM	0.30	1.91	125	0.015	1.0
NO <sub>2</sub>	4.6	28.9	470	0.062	1.0
СО	1.0	62.8	23,000	0.002	1.0

Source: (Booz Allen Hamilton, 2018b)

However, applying the Mitigation Measures AQ-2: *Reduce Heavy Equipment Emissions* discussed earlier across all Alternative C projects lowers the diesel PM cancer risk and HIs for diesel PM and NO<sub>2</sub> as shown in Table 4.2-14; therefore, impacts are not considered significant. Note, the emission rate for CO increases slightly most likely due to increased incomplete combustion associated with NO<sub>2</sub> reduction methods.

Table 4.2-14. Hazard Indices for Pollutants from Alternative C with Mitigation

Pollutant	Max Emissions (lb/hr)	Concentration from AERSCREEN (ug/m³)	REL	Hazard Index	Hazard Index Threshold
Diesel PM	0.02	0.097	125	0.0008	1.0
NO <sub>2</sub>	1.14	7.16	470	0.015	1.0
CO	6.1	38.2	23,000	0.002	1.0

Source: (Booz Allen Hamilton, 2018b)

#### 4.2.5.1.3 Greenhouse Gases

Construction-related GHG emissions associated with Alternative C were quantified using CalEEMod. Total construction-related GHG emissions associated with Alternative C during the construction period are 24,484 MTCO<sub>2</sub>e, or amortized over 30 years are 816 MTCO<sub>2</sub>e per year (Booz Allen Hamilton, 2018a). Alternative C would not generate construction GHG emissions, either directly or indirectly, that would have a significant impact on the environment.

#### 4.2.5.1.4 Odors

Construction activities associated with Alternative C could result in odors mainly from diesel exhaust emitted by equipment. These odors would be temporary, would occur during business hours during the construction period, and would disperse quickly given the wind in the area. Therefore, potential direct odor impacts during construction would be minor. No indirect impacts would occur.

## 4.2.5.2 Impacts from Operations

#### 4.2.5.2.1 Criteria Pollutants

Area- and mobile-source emissions of criteria pollutants were quantified using CalEEMod. Table 4.2-15 shows the results. As shown, the direct operational emissions of most of the criteria pollutants from Alternative C would be substantially lower than the significance thresholds, except in 2030. However, the overall change in operational emissions between the end-state post construction and the baseline (i.e., overall delta) would be over the *de minimis* threshold for VOC/ROG and NOx. This is primarily attributable to the assumptions for change in use of most of the buildings on the WLA Campus. However, the "worst case" nature of Alternative C is unlikely given not all of the North Campus facilities future uses would be health care (as modeled), and not all projects are likely to move forward within the 10-year construction timeframe.

Table 4.2-15. Summary of Modeled Annual Emissions of Criteria Pollutants and Precursors Associated with Operational Activities for Alternative C (tpy)

Year	VOC/ROG	NO <sub>x</sub>	NO <sub>2</sub>	СО	PM <sub>10</sub>	PM <sub>2.5</sub>
Delta 2021	6.28	6.22	4.66	28.99	5.49	2.11
Delta 2022a	-0.57	-1.23	-0.92	-3.85	-0.25	-0.08
Delta 2023 <sup>a</sup>	-1.57	-6.24	-4.68	-14.52	-2.95	-0.82
Delta 2024	2.85	6.23	4.68	17.43	6.78	1.93
Delta 2025	4.05	8.77	6.58	24.57	12.19	3.39
Delta 2026	1.98	3.29	2.47	9.97	4.95	1.42
Delta 2027	1.79	2.63	1.97	7.99	10.31	2.78
Delta 2028 <sup>a</sup>	0.95	-1.34	-1.00	-3.23	7.60	1.98
Delta 2029 <sup>a</sup>	0	0	0	0	0	0
Delta 2030	4.01	11.75	8.81	26.27	12.19	3.33
Overall Deltab	14.25	25.68	19.26	76.82	39.18	11.18
de minimis Threshold	10	10	100	100	100	70

**Bold** indicates exceedance.

Source: (Booz Allen Hamilton, 2018a)

The primary sources of VOC/ROG are consumer products and mobile sources, while the primary source of NO<sub>x</sub> emissions is from mobile sources. Thus, reducing commuter and visitor trips through incentive programs and public transportation would help to reduce these emissions. VA would implement mitigation measures to help reduce operational VOC/ROG and NOx emissions from Alternative C,

<sup>&</sup>lt;sup>a</sup> Emissions shown as negative values are due to a large decrease in operational emissions either because of a change in the use of the building or the demolition of existing buildings.

<sup>&</sup>lt;sup>b</sup> The overall delta represents the change in emissions between the end-state post construction and the baseline.

including public transportation programs and use of low VOC products (addressed under Mitigation Measures *TT-1: Implement Transportation Demand Management (TDM) Plan* and *UT-1: Apply Sustainable Building Design Standards*). However, even with these mitigation measures, emissions for some criteria pollutants are exceeded (Table 4.2-16). Therefore, the direct impact on regional air quality would still be significant and unavoidable. If Alternative C emissions of VOC/ROG and NOx can be reduced below *de minimis* levels using these mitigation measures, then a general conformity determination would not be necessary.

Table 4.2-16. Summary of Modeled Annual Mitigated Emissions of Criteria Pollutants and Precursors Associated with Operational Activities for Alternative C (tpy)

Year	VOC/ROG	NO <sub>x</sub>	NO <sub>2</sub>	СО	PM <sub>10</sub>	PM <sub>2.5</sub>
Delta 2021	3.46	4.68	3.51	19.14	3.11	0.90
Delta 2022a	-0.64	-1.47	-1.10	-4.72	-0.56	-0.17
Delta 2023 <sup>a</sup>	-1.60	-6.31	-4.73	-14.83	-3.07	-0.86
Delta 2024	2.56	5.23	3.92	12.87	4.88	1.41
Delta 2025	3.52	7.00	5.25	16.57	8.77	2.46
Delta 2026	1.69	2.28	1.71	5.41	3.05	0.90
Delta 2027 <sup>a</sup>	1.15	0.54	0.40	-1.48	6.01	1.60
Delta 2028 <sup>a</sup>	0.17	-4.09	-3.07	-15.70	1.83	0.41
Delta 2029 <sup>a</sup>	0	0	0	0	0	0
Delta 2030	3.69	10.66	8.00	21.38	9.48	2.59
Overall Deltab	9.89	19.03	14.27	44.04	25.90	7.00
de minimis Threshold	10	10	100	100	100	70

**Bold** indicates exceedance.

Source: (Booz Allen Hamilton, 2018a)

Because all reasonably foreseeable direct and indirect emissions predicted to result from Alternative C are taken into consideration under the general conformity regulations, construction-related and operational emissions were combined to determine the impacts of maximum annual construction and operational emissions for Alternative C. See results and discussion above in Table 4.2-7.

Direct, operational emissions of criteria pollutants were also calculated in pounds per day using the results above (Table 4.2-17). As shown, the direct operational emissions of criteria pollutants from Alternative C would be over the significance thresholds for NOx in 2025 and 2030. Thus, VA would need to implement BMPs or other methods to mitigate those emissions (Chapter 6, Mitigation, Monitoring, Minimization, and Best Practices). The primary source of the NOx emissions is from mobile sources; thus, reducing commuter and visitor trips through incentive programs and public transportation could reduce these emissions. VA would implement mitigation measures to help reduce operational NOx emissions from Alternative C, including public transportation programs and use of low VOC products (addressed under Mitigation Measures *TT-1: Implement Transportation Demand Management (TDM) Plan* and *UT-1: Apply Sustainable Building Design Standards*) (results shown in Table 4.2-18). No indirect impacts would occur.

<sup>&</sup>lt;sup>a</sup> Emissions shown as negative values are due to a large decrease in operational emissions either because of a change in the use of the building or the demolition of existing buildings.

<sup>&</sup>lt;sup>b</sup> The overall delta represents the change in emissions between the end-state post construction and the baseline.

Table 4.2-17. Summary of Modeled Annual Emissions of Criteria Pollutants and Precursors Associated with Operational Activities for Alternative C (Pounds/Day)

Year	VOC/ROG	NO <sub>x</sub>	СО	PM <sub>10</sub>	PM <sub>2.5</sub>
Total 2021	51.02	50.53	235.68	44.60	17.15
Total 2022 <sup>a</sup>	-4.60	-9.97	-31.34	-2.00	-0.65
Total 2023 <sup>a</sup>	-12.77	-50.73	-118.07	-24.00	-6.70
Total 2024	23.19	50.69	141.71	55.10	15.69
Total 2025	32.94	71.28	199.76	99.12	27.57
Total 2026	16.14	26.72	81.02	40.23	11.56
Total 2027	14.53	21.37	64.98	83.82	22.59
Total 2028 <sup>a</sup>	7.75	-10.88	-26.29	61.76	16.10
Total 2029	0	0	0	0	0
Total 2030	32.62	95.52	213.57	99.07	27.05
Mass Daily Threshold	55	55	550	150	55

<sup>&</sup>lt;sup>a</sup> Emissions shown as negative values are due to a large decrease in operational emissions either because of a change in the use of the building or the demolition of existing buildings.

Source: (Booz Allen Hamilton, 2018a)

Table 4.2-18. Summary of Modeled Annual Mitigated Emissions of Criteria Pollutants and Precursors Associated with Operational Activities for Alternative C (Pounds/Day)

Year	VOC/ROG	NO <sub>x</sub>	СО	PM <sub>10</sub>	PM <sub>2.5</sub>
Total 2021	28.10	38.02	28.51	155.59	25.32
Total 2022 <sup>a</sup>	-5.21	-11.94	-8.96	-38.41	-4.58
Total 2023 <sup>a</sup>	-12.99	-51.27	-38.45	-120.57	-24.98
Total 2024	20.78	42.52	31.89	104.64	39.66
Total 2025	28.65	56.94	42.70	134.69	71.30
Total 2026	13.73	18.56	13.92	43.95	24.79
Total 2027 <sup>a</sup>	9.31	4.38	3.28	-12.05	48.85
Total 2028 <sup>a</sup>	1.35	-33.24	-24.93	-127.60	14.92
Total 2029	0	0	0	0	0
Total 2030	29.99	86.70	65.03	173.84	77.03
Mass Daily Threshold	55	55	550	150	55

<sup>&</sup>lt;sup>a</sup> Emissions shown as negative values are due to a large decrease in operational emissions either because of a change in the use of the building or the demolition of existing buildings.

Source: (Booz Allen Hamilton, 2018a)

## 4.2.5.2.2 Toxic Air Contaminants

No additional sources of TACs are expected to be introduced to the WLA Campus as part of the operation of the new buildings under Alternative C. Therefore, no operational impacts from TACs are anticipated.

#### 4.2.5.2.3 Greenhouse Gases

Construction-related GHG emissions associated with Alternative C amortized over 30 years are 816 MTCO<sub>2</sub>e per year, <sup>29</sup> while the estimated overall change once construction is completed on the WLA Campus in annual operational GHG emissions is 46,118 MTCO<sub>2</sub>e. Thus, Alternative C would generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment. Alternative C represents a "worst case" scenario and there is a remote likelihood of all construction and demolition activities occurring at the same time. Should VA select Alternative C, VA would implement a number of mitigation measures to help reduce operational emissions to 31,190 MTCO<sub>2</sub>e, including public transportation programs (Mitigation Measure TT-1: *Implement TDM Plan*) and energy conservation designs and plans (Mitigation Measure UT-1: *Apply Sustainable Building Design Standards*). If criteria pollutant emissions cannot be mitigated below the significance thresholds, this would be considered a significant and unavoidable impact.

The 2016-2040 RTP/SCS promotes compact, transit-oriented development. Alternative C is consistent with this goal by proposing to develop health care facilities and residential housing in a densely packed area near existing and future transit options in the area.

#### 4.2.5.2.4 Odors

Alternative C does not involve the use of any net new incinerators, which could be a source of odor emissions. Other minor sources for odors such as garbage dumpsters on the WLA Campus could expose on-site sensitive receptors to odors; however, these types of odor exposures are unlikely. VA would continue to comply with regulatory requirements and best practices so that on-site minor odor sources, such as garbage dumpsters, would not adversely affect sensitive receptors. Therefore, odors are not anticipated under Alternative C.

## 4.2.6 Alternative D (Renovation, Demolition, and New Construction)

Under Alternative D, there would be a combination of renovations of existing buildings on the WLA Campus, demolition of existing buildings with no replacement construction, demolition and construction of new buildings within existing building site areas, or construction of new buildings on existing parking areas, athletic fields, and vacant lands on the WLA Campus. The discussion in this section is focused on additional or compounded potential impacts.

### 4.2.6.1 Impacts from Construction

#### 4.2.6.1.1 Criteria Pollutants

Foreseeable construction and demolition activities for Alternative D would include site preparation (e.g., demolition and clearing/grubbing), trenching, grading and excavation, building construction, asphalt paving, and application of architectural coatings. Construction activities would typically require the use of concrete saws (demolition), heavy trucks, cranes, excavating and grading equipment (tractors and

Total construction-related GHG emissions across the period of construction is 24,484 MTCO<sub>2</sub>e; however, construction emissions should be amortized over the life of the project, defined as 30 years, and added to the annual operational emissions (South Coast Air Quality Management District, 2008)

forklifts), and other mobile and stationary construction equipment. The types of criteria pollutants generated by construction activities are typically  $NO_x$  and PM (dust and exhaust), although CO and ROG are also emitted during operation of fossil fuel-powered construction equipment.

The direct construction-related emissions of criteria pollutants from Alternative D would be up to, but likely lower than, those modeled for Alternative C (Table 4.2-6) given the likelihood of renovation in lieu of full demolition and rebuild. Therefore, it is possible but unlikely that emissions would exceed significance thresholds. Once decisions are made on individual projects under Alternative D, VA would reevaluate the potential for exceedance of significance thresholds. Mitigation measures would be implemented as described under Alternative C to lower criteria pollutant emissions below *de minimis* levels throughout construction and operation or VA would meet with SCAQMD personnel to determine if the area SIP can accommodate the additional emissions. If criteria pollutant emissions cannot be mitigated below the significance thresholds, this would be considered a significant and unavoidable impact.

#### 4.2.6.1.2 Toxic Air Contaminants

The results of a HRA for Alternative D would be similar but lower than results for Alternative C. The level of emissions from Alternative D is assumed to be lower than those of Alternative C; therefore, the HIs for each of the three pollutants (Table 4.2-12) would be similar or lower and would not exceed the SCAQMD threshold of 1.0 indicating there is no non-cancer risk from emissions of these pollutants. Without mitigation, Alternative D would likely result in a similar cancer risk for diesel exhaust PM as reported for Alternative C (Table 4.2-11), that is, above SCAQMD significance thresholds.

Similar to Alternative C, applying Mitigation Measures AQ-2: *Reduce Heavy Equipment Emissions* across all proposed projects would reduce the diesel PM and NO<sub>2</sub> emissions from construction activities. Lower emissions also reduce the diesel PM cancer risk (Table 4.2-13) and HIs for diesel PM and NO<sub>2</sub> (Table 4.2-14); therefore, impacts are not considered significant. The emission rate for CO increases slightly most likely due to increased incomplete combustion associated with NO<sub>2</sub> reduction methods.

#### 4.2.6.1.3 Greenhouse Gases

Construction and (delta) operational GHG emissions associated with Alternative D would be similar to or less than those modeled for Alternative C.

### 4.2.6.1.4 Odors

Alternative D construction activities could result in odors mainly from diesel exhaust emitted by equipment. These odors would be temporary, would occur during business hours during the construction period, and would disperse quickly given the wind in the area. Therefore, potential direct odor impacts during construction would be minor. No indirect impacts would occur.

# 4.2.6.2 Impacts from Operations

#### 4.2.6.2.1 Criteria Pollutants

The direct operational emissions of criteria pollutants from Alternative D would be up to, but likely lower than, Alternative C. Alternative C modeled emissions for a "worst case" scenario of future use as health care facilities. Alternative D would have less operational emissions as many of the buildings future use would be residential, with lower emissions typically than emissions from a health care facility. Similar to Alternative C, direct operational emissions of most of the criteria pollutants from Alternative D would be substantially lower than the significance thresholds. There is a likelihood that the overall change in operational emissions between the end-state post construction and the baseline (i.e., overall delta) for Alternative D would also be over the *de minimis* threshold for VOC/ROG.

Similar to Alternative C, the primary source of NOx emissions is from mobile sources; thus, reducing commuter and visitor trips through incentive programs and public transportation could help to reduce these emissions (Mitigation Measure TT-1). Should VA decide to implement Alternative D, either mitigation measures would be implemented to reduce VOC/ROG emissions to below *de minimis* levels or VA would meet with SCAQMD personnel to determine if the area SIP can accommodate the additional emissions. Either method would ensure the Proposed Action does not impact ambient air quality and VA complies with the general conformity determination requirements. If VA makes changes to Alternative D to reduce emissions below *de minimis* levels, then a general conformity determination would not be necessary. If criteria pollutant emissions cannot be mitigated below the significance thresholds, this would be considered a significant and unavoidable impact

#### 4.2.6.2.2 Toxic Air Contaminants

No additional sources of TACs are expected to be introduced to the WLA Campus as part of the operation of the new and renovated buildings under Alternative D. Therefore, no operational impacts from TACs are anticipated.

#### 4.2.6.2.3 Greenhouse Gases

Construction and (delta) operational GHG emissions associated with Alternative D would be similar to or less than those shown in Alternative C because the future uses would generate less GHG emissions than the "worst-case" health care facility scenario.

Alternative C represented a "worst-case" scenario and there is a remote likelihood of all construction and demolition activities occurring at the same time. Under Alternative D, it would be anticipated that GHG emissions would be less that Alternative C estimates. Should VA select Alternative D, VA would implement a number of mitigation measures to help reduce operational GHG emissions from Alternative C, including public transportation programs (Mitigation Measure TT-1: *Implement TDM Plan*) and energy conservation designs and plans (Mitigation Measure UT-1: *Apply Sustainable Building Design Standards*).

The 2016-2040 RTP/SCS promotes compact, transit-oriented development. Alternative D is consistent with this goal by increasing housing and more dense development in areas served by already existing and proposed future transit options.

#### 4.2.6.2.4 Odors

Alternative D does not involve the use of any net new incinerators, which could be a source of odor emissions. Other minor sources for odors such as garbage dumpsters on the WLA Campus could expose on-site sensitive receptors to odors; however, these types of odor exposures are unlikely. VA would continue to comply with regulatory requirements and best practices so that on-site minor odor sources, such as garbage dumpsters, would not adversely affect sensitive receptors. Therefore, odors are not anticipated under Alternative D.

# 4.2.7 Alternative E (No Action)

Under Alternative E, the WLA Campus would remain the same as present day. No construction or demolition activities tied to the Proposed Action would occur on the WLA Campus.

## 4.2.7.1 Impacts from Construction

Under Alternative E, there would be no renovations, new construction, or demolition to existing buildings on the WLA Campus. Therefore, no construction-related air quality impacts would occur as a result of Alternative E.

## 4.2.7.2 Impacts from Operations

Under Alternative E, there would be no change in operational uses as the existing buildings and operations would remain the same as present day. Therefore, no air quality impacts on the WLA Campus would occur. The continued operation of the existing WLA Campus under Alternative E would not impact air quality. It should be noted that mobile-source emissions would likely decrease in the future with implementation of federal and state regulations and future technological improvements, resulting in decreased criteria pollutant emissions, vehicular TAC emissions, CO concentrations, and GHG emissions.

# 4.3 Cultural Resources Including Historic Properties

NEPA analysis considers the level of environmental effects that would be caused by or result from the proposed alternatives, including the "No Action Alternative." Section 106 of the NHPA similarly requires federal agencies to consider the effects of their undertakings on historic properties. Effects on historic properties may be beneficial, neutral, or adverse. An adverse effect is defined as "alteration to the characteristics of a historic property" that qualify it for listing in the NRHP. Effects that are significant or the accumulation of minor adverse effects can require a historic property to be de-listed from the NRHP, thereby ending federal considerations granted to historic properties under laws such as the NHPA.

#### 4.3.1 Evaluation Criteria

An adverse effect is identified when an undertaking would cause a significant change to one or more character-defining features of a historic property. Potential adverse effects of an alternative include:

- Physical destruction of all or part of a historic building, structure, or landscape features such as gardens or road systems;
- Disturbance or damage of an archeological site;
- Alteration of a historic building that is not consistent with the SOI Standards, specifically the Standards for Rehabilitation of Historic Properties;
- Moving a historic building or structure from its historic location;
- Change in the physical features of a historic setting;
- Modification or closure of a historic roadway system;
- Construction of a new road through a historic resource such as an identified historic landscape;
- Introduction of visual or noise elements that diminish the integrity of a historic property's character-defining features; and
- Neglect of a historic building, structure, or landscape element that causes its deterioration.

### 4.3.2 Assessment Method

Under the implementing regulations of Section 106 of the NHPA, 36 CFR § 800.16(d) defines the APE as the geographic area or areas within which an undertaking may directly or indirectly cause alterations in the character or use of historic properties. For this Proposed Action, VA has defined the APE for this undertaking to include the WLA Campus and the LANC (Figure 4.3-1). Impacts to historic or cultural resources within the entire APE were analyzed.

All the areas slated for redevelopment under the Proposed Action fall within the boundaries of the APE and many of the buildings slated for renovation are contributing elements to the WLA VA NRHD, thus making them subject to certain constraints related to historic preservation. To facilitate analysis of potential adverse effects and guide redevelopment activities on the campus, VA has developed a draft Programmatic Agreement (PA) currently the subject of consultation and included in Appendix B of this PEIS.

To best preserve the long-term functionality of the WLA Campus, the draft PA identifies contributing resources to the WLA VA NRHD that best represent the history of the WLA Campus as expressed by Criteria A and C as Preservation Priority 1. Built resources that do not singularly define a period of WLA Campus history but collectively illustrate significance have been identified as Preservation Priority 2. Preservation Priority 3 built resources are those that historically served a support function but cannot represent Criteria A and C without Preservation Priority 1 and/or Preservation Priority 2 buildings as a reference, e.g., support buildings such as sheds and engineering shops. Table 4.3-1 lists historic buildings subject to the Proposed Action.

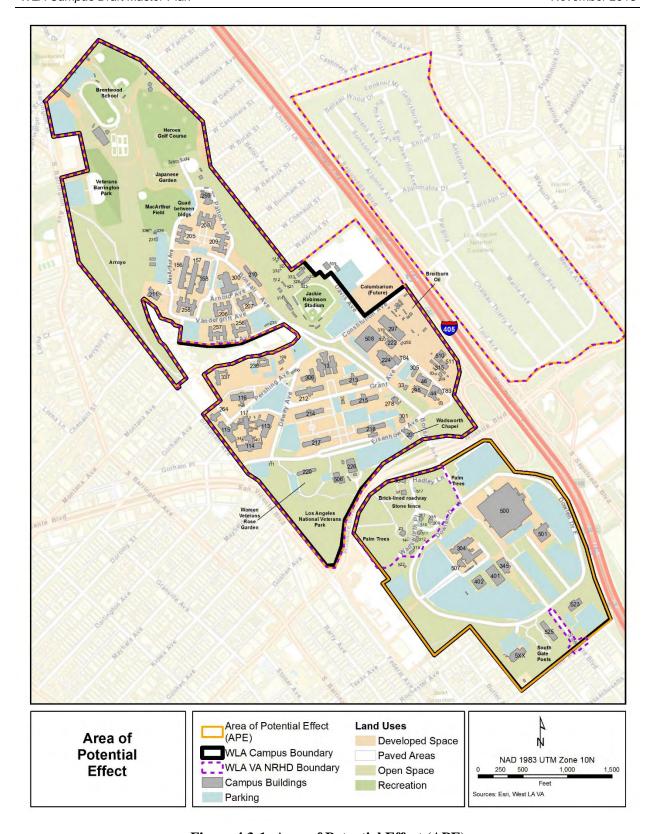


Figure 4.3-1: Area of Potential Effect (APE)

Table 4.3-1. Preservation Priorities for Historic Buildings on the WLA Campus Included in the
Proposed Action

Preservation Priority 1	Preservation Priority 2	Preservation Priority 3
Building 13	Building 156	Building 114
Building 157	Building 158	Building 115
Building 258	Building 206	Building 117
	Building 210	Building 222
	Building 212	Building 236
	Building 256	Building 259
	Building 257	Building 264
	Building 300	_

Certain roadways of the WLA Campus, such as Bonsall Avenue, also contribute to the WLA VA NRHD and are preservation priorities.

While Building 20 (the Wadsworth Chapel) and Building 66 (Streetcar Depot) are Preservation Priority 1 and individually listed in the NRHP, they are not buildings included in the Proposed Action (Table 2.2-1). A specific analysis of the cumulative impacts to planned renovation for both of these buildings is documented in Section 5.3, Cultural Resources, Including Historic Properties.

# 4.3.3 Alternative A (Existing Building Renovations)

Alternative A involves the renovation of 33 existing buildings, 18 of which are contributing resources to the WLA VA NRHD (listed in Table 4.3-1). Seven other buildings to be renovated are within the WLA VA NRHD but are non-contributing resources (Buildings 113, 233, 306, 329, 334, 337, and 509). The eight remaining buildings, all located in the South Campus (Buildings 304, 345, 401, 402, 500 [main hospital], 501, 507, and 5XX), are within the APE but not within the WLA VA NRHD. Renovations would include a range of upgrades to bring the buildings to compliance with seismic, accessibility, and fire and life safety requirements as well as reconfigure the building interiors for their future use. If the goals of the Draft Master Plan can be met, VA may choose to rehabilitate historic buildings in accordance with the *SOI Standards* rather than renovate buildings without historic preservation protocols.

Implementation of Alternative A also may include changes to the existing traffic and circulation system to accommodate new residents such as traffic circles; road widening; modification of existing vehicular lanes to pedestrian or bike paths; the addition of new roadways; and road closure and/or removal.

### 4.3.3.1 Impacts from Construction and Operation

Renovation of the 25 buildings that are contained within the WLA VA NRHD has the potential to be an adverse effect. These types of effects may be minor to major depending on the building and the method and types of renovation activities being conducted. Rehabilitations conducted following the *SOI Standards*, as reflected in Mitigation Measure HIST-1, *Apply SOI Standards and CHRP*, are not considered an adverse effect. The *SOI Standards* largely address treatment of exterior spaces and select interior of historic buildings; however, the *SOI Standards* can be used for other types of historic properties such as landscape. Use of the *SOI Standards* requires retention and preservation of the distinctive features and materials of the property, but not restoration of the property to its original appearance. Continued or expanded use of historic WLA Campus buildings benefits the buildings

through improvements such as seismic retrofitting, cleaning, maintenance, and replacement/improvement of structural supports and foundations.

Potential alterations not in accordance with the *SOI Standards* would include construction of new entries, replacement of historic windows and doors with unsympathetic modern materials, or removal of terra cotta roof tiles. Additions designed to be compatible with the materials, massing, and design of the original building and the WLA VA NRHD could be in accordance with the SOI Standards; case-by-case review would be required. Renovation of a historic building without use of the *SOI Standards* will result in an adverse effect. The level of impact to the building is dependent on the specific renovation.

Adverse effects of renovations not in compliance with the SOI Standards are not limited to impacts to the individual buildings but may affect the WLA VA NRHD as a whole. Construction activities to renovate or retrofit a historic building without application of the SOI Standards has the potential to affect features that would qualify the building as a contributing resource to the WLA VA NRHD. Modification of significant characteristics, such as the exterior materials, the construction of a large addition to the façade, or an accumulation of smaller alterations that change the building footprint may warrant a change in a building's contributing status to the WLA VA NRHD. These types of effects to Preservation Priority 1 buildings would qualify as moderate to major impacts to the WLA VA NRHD depending on the specific renovation activities. Unsympathetic renovations can render a building unable to contribute to the historic district, but the renovation of one or all Preservation Priority 1 buildings without the SOI Standards is unlikely to require removal of the WLA VA NRHD from the NRHP; however, reevaluation of the district may be required. Such changes to Preservation Priority 2 or 3 contributing resources would be less impactful to the WLA VA NRHD. Again, unsympathetic renovation or minor construction outside the SOI Standards may necessitate changing the building from a contributing to a noncontributing resource. An accumulation of changes to non-contributing resources in one area may require VA to reanalyze the boundaries of the WLA VA NRHD in consultation with SHPO. For example, if Buildings 114, 115, and 117 in the North Campus all became non-contributing resources, the NRHD boundaries may need to be reconsidered.

Renovation without utilization of the *SOI Standards* also may adversely affect the viewshed, design, and setting of nearby historic buildings and landscape features. For example, alteration of the historic roadway system around Buildings 13, 212, 213, 214, 215, 216, 217, and 218 through road closure would constitute an adverse effect to the WLA VA NRHD. This sort of effect may be minimized through retention of the roadway, but changed from vehicular to pedestrian traffic. Construction of roads also has the potential to affect contributing resources to the WLA VA NRHD and may also disturb archeological properties. The installation of traffic control measures such as lights or circles (roundabouts) are less likely to adversely affect the WLA VA NRHD because the historic path of the roadway would be retained; adverse effects to archeological properties may still occur. Application of Mitigation Measure HIST-1, *Apply SOI Standards and CHRP*, would help VA to avoid and/or minimize adverse effects to the WLA VA NRHD as a result of modifications to the existing transportation and circulation patterns. VA would apply Mitigation Measures HIST-2, *Implement Archeological Measures*, to identify intact sites, evaluate these sites for eligibility for listing in the NRHP, and for the management of any identified archeological resources. Mitigation Measure HIST-3, *Implement Measures for Discovery of Human Remains*, would be applied if human remains were identified during the course of construction. Adverse

effects to archeological resources will be avoided or mitigated as appropriate with implementation of these identified mitigation measures.

Renovation of non-contributing resources that is incompatible with the overall aesthetic of the WLA VA NRHD has the potential to affect historic buildings, notably through changes to the WLA Campus design, landscapes, and viewsheds. Such unsympathetic changes may be an adverse effect to the WLA VA NRHD. While the *SOI Standards* are not applicable to the seven non-contributing resources listed in Table 2.2-1 (Buildings 113, 233, 306, 329, 334, 337, 509), if VA chooses to comply with *SOI Standards* 9 and 10, this would not be an adverse effect to the WLA VA NRHD. However, if VA does not apply the *SOI Standards* to the design of these buildings, it could be an adverse effect to the WLA VA NRHD. Use of the *SOI Standards* is not appropriate for the renovation of buildings outside the WLA VA NRHD, such as Buildings 304, 345, 401, 402, 500, 501, 507, and 5XX.

Renovation of an existing building or buildings with or without use of the *SOI Standards* has the potential to disturb archeological properties during construction or with potential utility upgrades. Construction vehicles could disrupt or destroy subsurface deposits during ground-moving or grading, and construction of necessary foundation, utility work, or structural members could disrupt or destroy archeological artifacts. VA would apply Mitigation Measures HIST-2, *Implement Archeological Measures*, to identify intact sites, evaluate these sites for eligibility for listing in the NRHP, and for the management of any identified archeological resources. Mitigation Measure HIST-3, *Implement Measures for Inadvertent Discovery of Human Remains*, would be applied if human remains were identified. Therefore, adverse effects to archeological resources will be avoided or mitigated as appropriate with implementation of the identified mitigation measures.

Once construction has ceased, and the renovated buildings are operational, there are no known adverse effects of operations to the WLA VA NRHD following implementation of Alternative A because the WLA Campus would remain a site of care for Veterans. There are no adverse effects to known and/or potential archeological resources from operations following implementation of Alternative A.

# 4.3.4 Alternative B (Existing Building Demolition)

Under Alternative B, 33 campus buildings are planned for demolition, inclusive of 18 buildings that contribute to the WLA VA NRHD, and seven that are non-contributing resources. Eight of these buildings are outside the boundaries of the WLA VA NRHD. No new construction is being considered under Alternative B.

## 4.3.4.1 Impacts from Construction and Operation

The planned demolition of the 18 contributing resources will result in significant adverse effects to the individual historic buildings as well as to the WLA VA NRHD, including the potential removal of the historic district from the NRHP.

Demolition of Preservation Priority 1 buildings (Buildings 13, 157, 258) would result in major adverse impacts to the WLA VA NRHD, while demolition of a Preservation Priority 2 building (Buildings 156, 158, 206, 210, 212, 256, 257, 300) or Preservation Priority 3 building (Buildings 114, 115, 117, 222, 236, 259, and 264) would qualify as a minor to moderate effect to the WLA VA NRHD. The demolition of all

18 contributing resources likely would necessitate review of the integrity of the WLA VA NRHD and its continued inclusion in the NRHP. The WLA VA NRHD could be delisted or significantly modified as a result of this review as the resulting open spaces would not adequately be able to convey the history of the WLA Campus as a Veterans health care facility.

The removal of one Preservation Priority 1 building would affect the historic district but would not necessarily require its removal from the NRHP. For example, Building 157 is the most prominent example of Mission Revival architecture on the WLA Campus. Demolition of Building 157 would impact the ability of the WLA VA NRHD to convey significance under Criterion C: Architecture but not its ability to convey significance as a place of care for Veterans (Criterion A). The demolition of buildings in a Preservation Priority would require review of the historic district's ability to relate historical significance to the public. Demolition of a collection of buildings in one geographic area may cause VA, in consultation with SHPO, to review the boundaries of the WLA VA NRHD. Review of the integrity of the WLA VA NRHD would be necessary as Alternative B is implemented.

The spatial relationships between certain WLA Campus buildings have been identified as contributing resources to the WLA VA NRHD as a hallmark of the design. Removal of one or multiple buildings in these groupings has the potential to affect integrity of design. Demolition of a grouping such as Buildings 113, 114, 115, and 117 on the North Campus likely would require review of the WLA VA NRHD campus boundaries. The loss of Buildings 156, 157, and 158 would be more significant because of the history of these buildings and their Mission Revival architectural details. As the proposed demolitions under Alternative B are contrary to the *SOI Standards*, the impact cannot be mitigated. Therefore, implementation of Alternative B is a serious and irreversible adverse effect to historic resources.

Controlled demolition of North Campus buildings is unlikely to damage archeological resources. Disturbance may occur if utility lines are removed; however, these contexts would be disturbed from the initial trenching, and therefore do not maintain the necessary integrity to qualify for listing in the NRHP. Demolition on the South Campus is anticipated to be handled by heavy equipment with excavating high-reach arms rather than implosion or wrecking ball. Controlled demolition of this type is unlikely to result in inadvertent damage to nearby buildings or archeological sites. VA would apply Mitigation Measures HIST-2, *Implement Archeological Measures*, to identify intact sites, evaluate these sites for eligibility for listing in the NRHP, and for the management of any identified archeological resources. Mitigation Measure HIST-3, *Implement Measures for Inadvertent Discovery of Human Remains*, would be applied if human remains were identified. Therefore, adverse effects to archeological resources will be avoided, minimized, and/or mitigated through implementation of the identified mitigation measures and the measures included in the draft PA (included in Appendix B of this PEIS).

Once demolition activities have been completed, adverse effects of operations to the WLA VA NRHD are anticipated if the historic district loses its designation. There are no adverse impacts or effects to known and/or potential archeological resources from operations following implementation of Alternative B.

# 4.3.5 Alternative C (Demolition and New Construction)

Alternative C also includes demolition of 33 existing buildings, including 18 contributing resources, and replacement of those buildings within their existing footprints. Alternative C also includes construction of completely new buildings on existing vacant land on the WLA Campus. Potential sites include

MacArthur Field, Heroes Golf Course, the northeast portion of Veterans Barrington Park, a parcel between the golf course and Veterans Barrington Park, an empty parcel between the CalVet Home and Building 236, and Parking Lots 20 and 48 (for the new town center). The function of the new buildings may include EUL development of supportive housing, research, or medical services.

# 4.3.5.1 Impacts from Construction and Operation

Section 4.3.4.1 describes the adverse effects of demolition on individual buildings and the WLA VA NRHD for Alternative B. Those same buildings are considered for demolition under Alternative C. The planned demolition of the 18 contributing resources would result in significant and irreversible adverse effects to the WLA VA NRHD, reevaluation to determine if historic district retains sufficient integrity to be listed in the NRHP will be required. Delisting of the historic district from the NRHP or modification of the historic district boundaries, both significant adverse effects, is possible. Buildings 20 and 66 are not being contemplated for demolition under Alternative C and will remain. Both are individually listed in the NRHP and any new construction must take into account effects to these buildings. As the proposed demolitions under Alternative C are contrary to the *SOI Standards*, no possible mitigation measure is envisioned. For purposes of evaluating impacts of the proposed action on historic properties, it is assumed that the WLA VA NRHD retains sufficient integrity to be listed in the NRHP, although the geographic boundaries and criterion for eligibility may be altered.

Alternative C also proposes replacement of the demolished buildings. The medical buildings on the South Campus are outside the boundaries of the WLA VA NRHD and their demolition would not affect nearby historic buildings. The design of replacement construction would require review but is unlikely to affect the character-defining features of contributing resources to the WLA VA NRHD so long as the height of new buildings does not exceed 299 feet above current surface level (the present height of Building 500) and new buildings more than four stories in height are not sited adjacent to the WLA VA NRHD boundaries. Viewsheds in this area have already been compromised due to extant construction and would not be further affected as long as construction remains below this height.

New construction within the WLA VA NRHD can be designed to harmonize with the existing aesthetic or designed to be incompatible. The overall appearance of medical treatment buildings on the South Campus generally favors pale exteriors, flat roofs, single-pane windows, and square footage in excess of 30,000 ft<sup>2</sup>. This sort of construction would be disruptive to the low-slung, two-to-three story, stucco-clad, buildings of the North Campus. New construction in the WLA VA NRHD should not be identical to historic buildings, but it should be compatible. Construction that is not compatible can range from a minor to major adverse effect to a historic district depending on location, exterior materials, massing, and height.

The relationship of specific buildings within the WLA VA NRHD was deliberate and has been identified as historic as an element of the overall campus design. These include the groupings of Buildings 206, 207, 256, 257, and 300 and Buildings 13, 212, 213, 214, 215, 217, and 218. While these groupings include various buildings that are and are not part the Proposed Action (Table 2.2-1), interruptions of the specific distance between these buildings by the construction has the potential to affect the integrity of the historic North Campus design.

The construction of new buildings can also necessitate changes to roadways and other landscape elements, which could be an adverse effect. As described in Section 4.1, Aesthetics, viewshed changes caused by such actions may also qualify as an adverse effect, depending on the location. The roadway and sidewalk patterns in some areas of the WLA Campus are contributing resources to the WLA VA NRHD and a list of all contributing landscape features is included in Section 3.3.2.1, Historic Context. Reconfiguration of these elements would constitute an adverse effect to the WLA VA NRHD. It is assumed that alteration of the existing transportation and circulation system of the WLA Campus would be required to accommodate the demolition of existing buildings and the associated new construction; the closure of existing roadways and construction of new ones within the WLA VA NRHD would constitute an adverse effect to the historic property. Additionally, reconfiguration of existing landscapes and greenspaces within the historic district would constitute an adverse effect to the WLA VA NRHD.

New construction has the potential to be a moderate to major effect to the WLA VA NRHD if located adjacent to Preservation Priority 1 or 2 buildings, as opposed to around the edges of the historic district or outside the boundaries. Overall, the adverse impacts of new construction may be mitigated by applying the construction guidelines outlined in the *SOI Standards* that are applicable to each WLA Campus Historic Preservation Area (Mitigation Measure HIST-1). However, given the serious and irreversible adverse effects of the demolition that would precede new construction, Alternative C presents an overall adverse impact that cannot be fully mitigated. Review of the integrity of the WLA VA NRHD would be required as Alternative C is implemented to evaluate the potential for changes to the boundaries of the historic district or potential delisting from the NRHP.

The demolition and replacement of buildings, and new development of vacant land, have the potential to disrupt or destroy archeological sites if proper identification methods are not used prior to ground disturbance. VA would apply Mitigation Measures HIST-2, Implement Archeological Measures, to identify intact sites, evaluate these sites for eligibility for listing in the NRHP, and manage any identified archeological resources. Mitigation Measure HIST-3, *Implement Measures for Inadvertent Discoveries*, would be applied if human remains were identified. Therefore, adverse effects to archeological resources will be avoided, minimized, and/or mitigated through implementation of the identified mitigation measures and the measures included in the draft PA (Appendix B).

The effects of operations following demolition are described in Section 4.3.3.1. Once the newly constructed buildings are in service, there are no known adverse impacts or effects of operations to historic properties.

# 4.3.6 Alternative D (Renovation, Demolition, and New Construction)

Alternative D proposes the renovation or potential demolition and replacement of the 33 buildings listed in Table 2.2-1. Redevelopment of the South Campus makes similar assumptions to those of Alternative C. Buildings in the medical center area of the South Campus (Buildings 304, 345, 401, 402, 500 [main hospital], 501, and 507), all of which are outside the historic district, would be partially or full demolished and replaced with new construction. For the remaining 26 buildings, most of which are located on the North Campus, VA would carefully consider all options to renovate or demolish and/or replace based on what would best suit the needs of Veterans served. Final decisions regarding the renovation or replacement of buildings on the North Campus and the timeline for their development would be made as priorities are further defined and funding allocated.

Alternative D also includes the construction of new supportive housing in one or more open areas of the North Campus, including MacArthur Field, Heroes Golf Course, the northeast portion of Veterans Barrington Park, a parcel between the golf course and Veterans Barrington Park, and an empty parcel between the CalVet Home and Building 236. Construction is also proposed for a new town center in the area of Parking Lots 20 and 48.

## 4.3.6.1 Impacts from Construction and Operation

The effects of renovation would be similar to those described in Section 4.3.3, whether applied to all WLA Campus buildings or only some. The effect of renovation without the use of the *SOI Standards* has the potential to be a moderate impact near the boundaries the WLA VA NRHD and range from moderate to major within the core of the historic district. Application of Mitigation Measure HIST-1, *Apply SOI Standards and CHRP* wherever feasible would avoid adverse effects. Where adverse effects cannot be avoided, the mitigation measures in the final PA would take effect.

The effects of demolition are described in Section 4.3.4, and would be applicable to Alternative D depending on which buildings are selected for demolition and their respective locations and contributions to the historic district. The effects of demolition of Preservation Priority 1 and 2 buildings would range from moderate to major depending on the specific building(s) and the number of buildings. Demolition of Preservation Priority 3 buildings would quality as a minor to moderate effect to the WLA VA NRHD. Demolition of several contributing resources would adversely affect the WLA VA NRHD and has the potential to raise the level of impact. Where adverse effects cannot be avoided, the mitigation measures in the final PA would be implemented.

The introduction of new construction into the significant building and roadway patterns of the North Campus has the potential to be a moderate to major impact, and the construction of several new buildings could be a significant effect to the WLA VA NRHD. Applying Mitigation Measure HIST-1, *Apply SOI Standards and CHRP*, would mitigate the impacts of new buildings and ensure compatibility with the surrounding resources within each WLA Campus Historic Preservation Area.

The potential for demolition or clusters of demolitions, new construction, and renovation of contributing resources without application of the *SOI Standards*, would require review to determine if implementation of Alternative D necessitates delisting from the NRHP or altering of the boundaries and significance of the WLA VA NRHD.

Whether due to renovation and/or rehabilitation, demolition, or new construction, changes to the existing circulation and transportation system, such as installation of traffic circles, road closures, new roads, or the creation of pedestrian and bike paths, within the WLA VA NRHD have the potential to adversely affect historic properties. Modification of the path of Bonsall Avenue through the North Campus and the fan-shaped road systems near Buildings 13 and 300 would constitute adverse effects.

The demolition and replacement of buildings, new development of vacant land, and changes to roadways have the potential to disrupt or destroy archeological sites if proper identification methods are not used prior to ground disturbance. VA would apply Mitigation Measures HIST-2, *Implement Archeological Measures*, to identify intact sites, evaluate these sites for eligibility for listing in the NRHP, and for the management of any identified archeological resources. Mitigation Measure HIST-3, *Implement Measures* 

for Inadvertent Discovery of Human Remains, would be applied if human remains were identified. Therefore, adverse effects to archeological resources will be avoided, minimized, and/or mitigated through implementation of the identified mitigation measures and the measures included in the draft PA (found in Appendix B of this PEIS).

The impacts of operations under Alternative D are similar to those described for operations under Alternatives A through C.

# 4.3.7 Alternative E (No Action)

Alternative E is the No Action/No Project alternative, or maintenance of the "status quo." Under Alternative E, the present functions and services of the WLA VA NRHD would remain in the current locations, buildings would not be demolished, no new buildings would be constructed, and no vacant land would be developed.

Buildings presently vacant and/or underutilized would remain in this condition under Alternative E. Continued vacancy and/or underutilization may result in delayed or denied investment in building maintenance and a lack of investment would lead to additional deterioration, with deteriorated buildings facing possible future demolition. As previously described, the demolition of contributing resources could adversely affect the WLA VA NRHD. Therefore, Alternative E represents a potentially adverse effect.

Continuation of present services would not adversely affect archeological resources.

# 4.4 Geology and Soils

This section describes potential impacts to geology and soils associated with the Proposed Action.

### 4.4.1 Evaluation Criteria

There is potential for geology or soil adverse impacts to occur when an activity:

- Results in increased exposure to geologic hazards, including substantial damage to structures or infrastructure, or expose people to substantial risk of injury;
- Causes or accelerates instability from erosion resulting in sediment runoff or deposition that would not be contained or controlled on-site;
- Results in permanent loss or loss of access to mineral or oil reserves; or
- Damages fossil and paleontological resources.

### 4.4.2 Assessment Methods

For geologic hazards such as faulting or liquefaction, evaluations were based on distance to known fault zones and seismic characteristics of the fault zone. Effects of the alternatives on soils that possess a moderate to severe potential for erosion and liquefaction could be adverse. Soil erosion impacts are also discussed in Section 4.5, Hydrology and Water Quality. The WLA Campus does have an active fault on

the existing WLA Campus (Figure 3.4-3); therefore, exposure of people or structures to a surface fault rupture is included in the evaluation.

Given that there has been no evidence of landslides, land subsidence, or expansive soils at the WLA Campus, these effects were not evaluated. Similarly, as noted in Section 3.4.2.4.1, California Mineral Resource Zones, the WLA Campus is not classified as MRZ-2 (i.e., an Area of Identified Mineral Significance) (California Department of Conservation, 1979). Therefore, impacts to mineral resources are not addressed further within this analysis.

Evaluations for paleontological resources were based on the standard guidelines for assessment and mitigation of adverse impacts from the Society of Vertebrate Paleontology. The four established categories of sensitivity for paleontological resources are high, undetermined, low, and no potential for containing significant paleontological resources. Areas where fossils have been previously found are considered to have a high sensitivity and a high potential to produce fossils. Areas that are not sedimentary in origin and that have not been known to produce fossils in the past typically are considered to have low sensitivity. Areas that have not had any previous paleontological resource surveys or fossil finds are considered to be of undetermined sensitivity until surveys and mapping are performed to determine their sensitivity. Areas with no potential to contain significant paleontological resources include landscapes underlain by metamorphic or igneous rocks (Society of Vertebrate Paleontology, 2011). To date, no paleontological resources have been identified on or near the WLA Campus.

# 4.4.3 Alternative A (Existing Building Renovations)

# 4.4.3.1 Impacts from Construction

Alternative A involves renovations to buildings on the WLA Campus. These renovations would generally affect only the interior of those buildings; however, some buildings may have exterior modifications to entrances, windows, or other external features. The footprint of the existing buildings would not change significantly. No buildings would be demolished or require extensive exterior construction activities. Renovation activities may include seismic retrofitting. Seismic retrofits are mandated by EO 12941, *Seismic Safety of Existing Federally Owned or Leased Buildings*, VA seismic design requirements (VA Directive H-18-8), and state and local building codes.

# 4.4.3.1.1 Geologic Hazards

Interior renovations would not increase exposure to geologic hazards for affected WLA Campus buildings. However, several existing buildings that would be renovated as part of Alternative A are within designated hazard areas. The effects of Alternative A on these buildings, and impacts from geologic hazards on the renovated structures, are described below.

Southern portions of the WLA Campus, including Building 5XX, are within the Santa Monica Fault Zone (Figure 3.4-3). Buildings that are within active fault zones are at high risk of significant damage (with potential for casualties) due to vertical or horizontal offset that results from an earthquake (Goettel, 2011), and avoidance of new construction within these areas is required (State of California, 2015) (California Geological Survey, 2018) (California Legislative Information, 2018). Implementation of Alternative A would have no impacts on Building 5XX's exposure risk to seismic rupture (i.e., risk levels would remain

the same). The remaining WLA Campus buildings are at least 0.2 miles from the Santa Monica Fault, placing them at minimal risk of exposure to seismic rupture.

In addition, several WLA Campus structures proposed for renovation, including Buildings 222 and 509, are within the WLA Campus's designated liquefaction zone (Figure 3.4-4). Implementing Alternative A would not change either building's liquefaction exposure risk.

As noted in Section 3.4.2.3.1, Earthquakes, the entirety of the WLA Campus is at risk of exposure to earthquake forces. Structural (e.g., diaphragm strengthening and concrete beam reinforcement) and non-structural (e.g., bracing utility lines with metal struts or cables) modifications to each building's interior engineering would improve the capacity to withstand the lateral and moment forces experienced during a major seismic event. These enhancements would constitute a moderate beneficial impact as they would bring long-term improvements to the safety of the WLA Campus facilities.

#### 4.4.3.1.2 Oil Reserves

Interior building renovations associated with Alternative A would not impact WLA Campus oil resources.

#### 4.4.3.1.3 Soils

Minimal soil disturbing activities are anticipated for interior renovations associated with Alternative A. The topography at the existing WLA Campus would not be altered. Continued landscaping activities with native plants and vegetation would result in beneficial impacts to soils by reducing the potential for erosion and sediment loading in storm drain systems (NRCS, 2001). There would be minor impacts to soils given that no heavy equipment or use of equipment on unpaved roads is anticipated. Under Alternative A, interior renovations would lead to limited ground disturbance and would not exceed one acre for any individual building project.

## 4.4.3.1.4 Fossils and Paleontological Resources

There would be no anticipated impacts to fossils or paleontological resources given that Alternative A would involve limited ground disturbance within previously disturbed lands. It is also highly unlikely that any proposed renovation projects would reach depths capable of holding paleontological resources.

# 4.4.3.2 Impacts from Operations

Alternative A involves interior renovations to WLA Campus facilities. The planned and future use of the WLA Campus buildings would result in no changes to surrounding geology and soils. Continued landscaping activities with native plants and vegetation would result in beneficial impacts to soils by reducing the potential for erosion and sediment loading in storm drain systems (NRCS, 2001). No impacts to geology and soils from facility operations are anticipated to result under Alternative A.

## 4.4.4 Alternative B (Existing Building Demolition)

Alternative B involves demolition of individual WLA Campus buildings. Prior to demolition activities, existing tenants and services would be relocated to other WLA Campus buildings. Parking areas, athletic fields, and vacant land are not proposed to be altered under Alternative B.

# 4.4.4.1 Impacts from Construction

Under Alternative B, individual WLA Campus buildings would be demolished and would not be replaced. There would be 22.8 acres of ground disturbance for the demolished buildings and structures (Table 2.2-3). Following demolition, the landscape previously occupied by these WLA Campus buildings would be restored to open, vegetated areas.

# 4.4.4.1.1 Geologic Hazards

Demolition-related impacts vary depending on the geologic hazard and specific demolition site. Building demolition would reduce the number of aging structures on the WLA Campus that could be subject to seismic shaking and damage. Demolition of WLA Campus buildings would therefore constitute a beneficial impact with respect to seismic shaking.

Southern portions of the WLA Campus, including Building 5XX, are within the Santa Monica Fault Zone. Demolition of Building 5XX would constitute a moderate beneficial impact due to reduction in risk of exposure to seismic rupture. The remaining WLA Campus buildings are more than 0.2 miles from the Santa Monica Fault, placing them at minimal risk of exposure to seismic rupture. Demolition of the WLA Campus buildings would negate this risk and constitute a minor benefit due to the localized reduction in seismic rupture risk.

Among WLA Campus buildings that could be impacted by Alternative B, only Buildings 222 and 509 are located within a designated liquefaction zone (Figure 3.4-4). Demolition of Buildings 222 and 509 would constitute a minor benefit due to the localized reduction in liquefaction risk with respect to those structures.

### 4.4.4.1.2 Oil Reserves

As described in Section 3.4.2.4, Mineral and Oil Resources, oil resource development occurs in the northeast portion of the WLA Campus near the intersection of Constitution Avenue and I-405 (Figure 3.4-6). One active well is near Building 297, which is roughly 200 feet from the proposed demolition site of Building 222. All other WLA Campus buildings that could be impacted by Alternative B are more than 0.15 miles away from the WLA Campus's active oil wells. However, demolition activities would be directed away from the oil development areas and, therefore, there would be no impacts associated with Alternative B on oil resource development.

#### 4.4.4.1.3 Soils

Topography at the existing WLA Campus would not be substantially altered as the existing building footprints would be filled in with dirt. Erosion potential would increase in areas where vegetative cover would be removed. However, implementation of Mitigation Measure GEO-1, *Apply Soil Erosion Measures*, during construction would mitigate the potential for adverse impacts. Therefore, short-term and localized erosion-related impacts from demolition would likely be minor.

Soil compaction potential could increase due to the operation of heavy equipment in the project area. However, these impacts would be minor due to the localized project scope and given that the land surfaces that would be affected have been previously disturbed. BMP implementation, such as limiting

the areas that are affected by vehicular traffic or subsoiling (i.e., soil ripping) to depths of 20 inches, would minimize impacts related to soil compaction (Hanks & Lewandowski, 2003).

## 4.4.4.1.4 Fossils and Paleontological Resources

Fossil discoveries have been common throughout the Los Angeles Basin, particularly within unit Qoa that underlies most portions of the WLA Campus, except for the campus's eastern portions. To date, no paleontological resources have been identified on or near the WLA Campus. Demolition of North Campus buildings is unlikely to reach depths capable of holding paleontological resources. Demolition of the larger buildings on the South Campus may, but these contexts have been disturbed by construction of the buildings.

## 4.4.4.2 Impacts from Operations

There would be no operational impacts associated with Alternative B given that there would be no construction of replacement structures following the demolition activities.

# 4.4.5 Alternative C (Demolition and Construction)

Alternative C involves full demolition of individual buildings throughout the WLA Campus (as described in Alternative B) with new construction of buildings to support future use activities. Prior to demolition, existing tenants and services would be relocated to other buildings on the WLA Campus. Demolished buildings would be replaced with new buildings within the same project footprint. In addition, new construction is proposed on several existing parking areas, athletic fields, and vacant land as part of Alternative C.

## 4.4.5.1 Impacts from Construction

### 4.4.5.1.1 Geologic Hazards

Demolition- and construction-related impacts vary depending on the geologic hazard and site. Under Alternative C, WLA Campus buildings would be demolished and replaced with newly constructed buildings having modern structural and non-structural components. These construction enhancements would improve each building's capacity to withstand lateral and moment forces experienced during seismic events. These enhancements would constitute a moderate beneficial impact as they would bring long-term safety improvements to the WLA Campus buildings and reduce the risk of structural damage from future seismic events.

Southern portions of the WLA Campus, including Building 5XX, are within the Santa Monica Fault Zone. Buildings that are within active fault zones are at high risk of significant damage (with potential for casualties) due to vertical or horizontal offset that results from an earthquake (Goettel, 2011), and new construction avoidance within these areas is required (State of California, 2015) (California Geological Survey, 2018) (California Legislative Information, 2018). Implementation of Alternative C would have no impacts on Building 5XX's exposure risk to seismic rupture (i.e., risk levels would remain the same). The remaining WLA Campus building sites are more than 0.2 miles from the Santa Monica Fault, placing them at minimal risk of exposure to seismic rupture.

Buildings 222 and 509 are located within the WLA Campus's designated liquefaction zone (Figure 3.4-4). As noted in Section 3.4.2.3.1, Earthquakes, liquefaction may occur during earthquakes if soil particles lose contact with one another and sediments begin to behave as a liquid. Specifically, soil can lose the ability to support structures and result in soil settlement in uneven patterns that damages buildings, roads, and pipelines (USGS, 2006b). Demolition and construction of Buildings 222 and 509 would have no impacts with respect to liquefaction, as risk levels would remain similar to existing conditions. No other building sites on the WLA Campus are within the designated liquefaction zone; demolition and construction on these sites would have no impacts with respect to liquefaction.

As further noted in Section 3.4.2.3.1, the entirety of the WLA Campus is at risk of exposure to the forces associated with earthquakes. Structural (e.g., diaphragm strengthening and concrete beam reinforcement) and non-structural (e.g., bracing utility lines with metal struts or cables) upgrades would improve each building's capacity to withstand the lateral and moment forces experienced during a major seismic event. These enhancements would constitute a moderate beneficial impact as they would bring long-term improvements to the safety of the WLA Campus facilities.

#### 4.4.5.1.2 Oil Reserves

Oil resource development occurs in the northeast portion of the WLA Campus near the intersection of Constitution Avenue and I-405 (Figure 3.4-6). One active well is near Building 297, which is roughly 200 feet from the proposed demolition and construction site of Building 222. All other WLA Campus buildings that could be impacted by Alternative C are more than 0.15 miles away from the WLA Campus's active oil wells. Minor, short-term, and temporary impacts would occur if demolition and construction activities were to affect oil resources or limit access to the oil development area. However, demolition and construction activities would be directed away from the oil development areas, and therefore, there would be no impacts to oil resources associated with Alternative C.

#### 4.4.5.1.3 Soils

Under Alternative C, WLA Campus buildings, athletic fields, and parking lots would be demolished and would be replaced with new buildings. There would be an estimated 58.1 acres of ground disturbance from the demolition of existing buildings and construction of new buildings (Table 2.2-4). Implementation of Mitigation Measure GEO-1, *Apply Soil Erosion Measure*, during construction would mitigate the potential for adverse impacts.

Soil compaction potential could increase due to the operation of heavy equipment. However, impacts would be minor due to the localized project scope and given that the affected land surfaces would have been previously disturbed. Examples of BMPs that would limit or mitigate soil compaction include limiting the areas that are affected by vehicular traffic or subsoiling (e.g., loosening soil layers at depths of one foot or more below the ground surface) (Hanks & Lewandowski, 2003).

### 4.4.5.1.4 Fossils and Paleontological Resources

Fossil discoveries have been common throughout the Los Angeles Basin, particularly within unit Qoa, which underlies most portions of the WLA Campus except for the campus's eastern portions. Construction of buildings on the North Campus is unlikely to require disturbance at depths capable of

disturbing paleontological evidence. Portions of the South Campus may require excavation for footers, pilings, and foundations in soils and at depths consistent with the potential to contain paleontological resources.

## 4.4.5.2 Impacts from Operations

The future use of WLA Campus buildings as residential space, health care facility, research facilities, town center, multi-use facilities, or parking would result in minimal changes to geology and soils. Continued landscaping activities with native plants and vegetation would result in beneficial impacts to soils by reducing the potential for erosion and sediment loading in storm drain systems (NRCS, 2001). No impacts to geology and soils from facility operations are anticipated to result under Alternative C.

## 4.4.6 Alternative D (Renovation, Demolition, and New Construction)

Under Alternative D, there would be a combination of renovations of existing buildings on the WLA Campus, demolition of existing buildings with no replacement construction, demolition and construction of new buildings within existing building site areas, or construction of new buildings on existing parking areas, athletic fields, and vacant lands on the WLA Campus. Alternative D would result in similar potential impacts noted in Alternatives A through C.

## 4.4.6.1 Impacts from Construction

## 4.4.6.1.1 Geologic Hazards

Impacts related to geologic hazards from the implementation of Alternative D vary depending on the geologic hazard, project activity, and project site as described below.

Under Alternative D, implementation of interior renovations would have no impacts on Building 5XX's exposure risk to seismic rupture (i.e., risk levels would remain the same). Building 5XX would remain at high risk of significant damage (with potential for casualties) from vertical or horizontal offset that results from an earthquake (Goettel, 2011).

Under Alternative D, several WLA Campus structures, including Buildings 222 and 509, that would be renovated or reconstructed are located within the WLA Campus's designated liquefaction zone (Figure 3.4-4). Following implementation of Alternative D, these buildings would remain at current risk levels for exposure to liquefaction.

As noted in Section 3.4.2.3.1, Earthquakes, the entire WLA Campus is at risk of exposure to the forces associated with earthquakes. Interior structural (e.g., diaphragm strengthening and concrete beam reinforcement) and non-structural (e.g., bracing utility lines with metal struts or cables) modifications would improve each building's capacity to withstand the lateral and moment forces experienced during a major seismic event. Similar to Alternative C, these enhancements would constitute a beneficial impact as they would bring long-term improvements to the safety of the WLA Campus facilities.

#### 4.4.6.1.2 Oil Reserves

Demolition and construction activities under Alternative D would be similar to those described for Alternative C. There would be no impacts related to oil resources.

#### 4.4.6.1.3 Soils

Demolition and construction activities under Alternative D would be similar to those described for Alternative C. Alternative D would result in 58.1 acres of ground disturbance with the potential for increased erosion and soil compaction. Implementation of Mitigation Measure GEO-1, *Apply Soil Erosion Measures*, during construction would mitigate the potential for adverse impacts.

Soil compaction potential could increase due to the operation of heavy equipment in the project area. However, these impacts would be minor due to the localized project scope and given that the land surfaces that would be affected have been previously disturbed. BMP implementation would minimize impacts related to soil compaction. Examples of BMPs that would limit soil compaction include limiting the areas that are affected by vehicular traffic or subsoiling (i.e., soil ripping) to depths of 20 inches (Hanks & Lewandowski, 2003).

## 4.4.6.1.4 Fossils and Paleontological Resources

Demolition and construction activities under Alternative D would be similar to those described for Alternative C. Construction of buildings on the North Campus is unlikely to require disturbance at depths capable of disturbing paleontological evidence. Portions of the South Campus may require excavation for footers, pilings, and foundations in soils and at depths consistent with the potential to contain paleontological resources.

#### 4.4.6.2 Impacts from Operations

Alternative D involves interior renovations, demolition, and/or construction activities to WLA Campus facilities. The effects of operating these facilities under Alternative D would be similar to those described for Alternative C. The planned and future use of the WLA Campus buildings would result in minimal changes to geology and soils surrounding these facilities. Continued landscaping activities with native plants and vegetation would result in beneficial impacts to soils by reducing the potential for erosion and sediment loading in storm drain systems (NRCS, 2001). There would be no impacts to geology and soils from facility operations under Alternative D.

#### 4.4.7 Alternative E (No Action)

Under Alternative E, the WLA Campus would remain the same as present day. No construction activities tied to the Proposed Action would occur on the WLA Campus.

#### 4.4.7.1 Impacts from Construction

Under Alternative E, there would be no renovations, new construction, or demolition to existing buildings on the WLA Campus. Therefore, no construction-related impacts on geology, soils, or paleontological resources would occur as a result of Alternative E.

## 4.4.7.2 Impacts from Operations

Under Alternative E, there would be no change in geology and soils on the WLA Campus as the existing buildings and operations would remain the same as present day. No new operational changes of existing uses would occur; thus, no impacts on the WLA Campus would occur. The continued operation of the existing WLA Campus under Alternative E would not impact geology and soils.

## 4.5 Hydrology and Water Quality

This section describes potential impacts to hydrology and water quality associated with the proposed realignment and development at the WLA Campus.

#### 4.5.1 Evaluation Criteria

There is potential for major hydrology and water quality impacts to occur when an activity:

- Violates existing water quality standards that would otherwise substantially degrade surface water or groundwater quality;
- Results in substantial water quality changes that would adversely affect aquatic life or beneficial uses of aquatic ecosystems; or
- Results in substantive groundwater depletion.

#### 4.5.2 Assessment Methods

The evaluation criteria were applied to determine potential impacts using a qualitative approach. The assessment reviewed potential impacts to water quality and groundwater from construction and facility operations associated with project-related drainage alterations, increased impervious areas, or water quality degradation. Water quality impacts associated with soil erosion are also discussed in Section 4.4, Geology and Soils.

## 4.5.3 Alternative A (Existing Building Renovations)

### 4.5.3.1 Impacts from Construction

Alternative A involves renovations to buildings on the WLA Campus. These renovations would generally affect only the interior of those buildings, while some buildings may have exterior modifications to entrances and facades and could include new landscaping. The footprint of the existing buildings would not change significantly. Under Alternative A, impervious surfaces on the WLA Campus would not change and would continue to cover approximately 145 acres (37 percent) of the WLA Campus. None of the buildings would be demolished or require extensive exterior construction activities. During renovations, existing tenants and services would be relocated to other buildings on the WLA Campus.

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### 4.5.3.1.1 Water Quality

Under Alternative A, the footprint of the existing buildings is not expected to change. Facility renovations would result in limited ground disturbing activities. Minor exterior structural changes, utility work, and new landscaping may occur on a site-specific basis and could cause minor short-term impacts to water quality from sedimentation due to surface runoff. Exposed soils would be susceptible to erosion from stormwater runoff. Potential short-term construction impacts to water quality would be minimized through application of Mitigation Measure GEO-1, *Apply Soil Erosion Measures*). Landscaping activities (e.g., planting trees/shrubs) may occur and would result in beneficial impacts to water quality by reducing the potential for erosion and runoff.

### **4.5.3.1.2** *Groundwater*

Ground disturbance associated with any renovation activities would be minor, occurring at the surface level to a few feet below the ground surface; following renovations, the landscape would be restored to pre-existing conditions. Therefore, renovation activities associated with Alternative A would not impact groundwater on the WLA Campus.

## 4.5.3.2 Impacts from Operations

The planned and future use of these renovated buildings would not likely result in changes pertaining to hydrology and water quality. Thus, no adverse impacts to hydrology and water quality from facility operations are anticipated to result under Alternative A.

# 4.5.4 Alternative B (Existing Building Demolition)

#### 4.5.4.1 Impacts from Construction

Alternative B involves demolition of individual buildings throughout the WLA Campus. Prior to demolition activities, existing tenants and services would be relocated to other buildings on the WLA Campus. Demolition activities would result in ground disturbance of approximately 22.8 acres (see Table 2.2-3).

## **4.5.4.1.1** *Water Quality*

As described in Section 3.5, Hydrology and Water Quality, no intermittent or perennial surface waterbodies are located on the WLA Campus. The arroyo, located within the northwestern edge of the WLA Campus (Figure 3.9-1), has been significantly altered previously and only contains limited streamflow. No demolition activities are expected to occur near the arroyo; therefore, no impacts to waterbodies are anticipated from implementation of Alternative B.

During demolition, exposed soils would be susceptible to erosion from stormwater runoff, temporarily increasing the potential for sedimentation in stormwater drainages. Temporary changes in on-site drainage patterns due to grading activities may also occur on the WLA Campus. These changes could result in possible sediment accumulation in new locations that could block stormwater flows, potentially causing increased localized ponding or flooding during storm events. Soil deposits on paved roadways from construction vehicles could increase sediment loading to nearby stormwater drains, clogging inlets

and reducing the functional capacity of the pipes to convey flows. Minor impacts to hydrology and surface water quality associated with exposed soils and project-related drainage alterations would be short-term until the vegetative cover is replaced following the completion of demolition activities. Mitigation Measures WQ-1, *Implement Stormwater Management for Construction Activities*, and GEO-1, *Apply Erosion Control Measures*, would be implemented to minimize potential impacts.

As noted in Table 4.5-1, some of the WLA buildings proposed for demolition may have the potential to impact water quality, including engineering shops, recycling facilities, and medical waste and equipment storage. Spills or leaks from construction equipment or materials used for construction activities (e.g., oils, paints, solvents) including those stored at the on-site construction staging area, could lead to contaminated stormwater runoff and adversely affect water quality. If improperly handled, these pollutants could be transported in stormwater runoff that flows to the Pacific Ocean or infiltrate groundwater. See Section 4.12, Solid Waste and Hazardous Materials, for more information on the handling and storage of solid waste and hazardous materials.

Table 4.5-1. Facilities Proposed for Demolition and/or Construction on the WLA Campus Posing a
Potential Threat to Water Quality

Building Number	Current Use
222	Facilities Management
259	Facilities Management
337	Facilities Management
509	Facilities Management
304	Health care
345	Health care
401	Health care
402	Health care
500/507	Health care
501	Utilities
13	Facilities Management
233	Facilities Management
236	Facilities Management
306	Facilities Management

Demolition activities would not occur within or near the medical waste disposal areas in the arroyo (see Figure 3.12-1). As discussed in Section 3.5.2.3, Groundwater, contaminants and radionuclides have been found in the soil and groundwater within the arroyo, yet were found to be at acceptable, low-level concentrations (U.S. Department of Veterans Affairs, 2016a). NRC has determined that the site posed no adverse risk to human health (NRC, 1981). Therefore, impacts to hydrology and water quality associated with the medical waste disposal areas are not anticipated.

Based on the lack of existing surface water features on the WLA Campus and through implementation of Mitigation Measures WQ-1 and GEO-1, short-term impacts on hydrology and water quality for Alternative B would be minor.

### 4.5.4.1.2 **Groundwater**

Groundwater resources are not anticipated to be encountered during demolition activities. Average depth to groundwater on the WLA Campus is typically greater than 70 feet below the surface, with some areas

historically measuring less than 40 feet in the South Campus (see Section 3.4.2.3, Geological Hazards). Ground disturbance would be minor, occurring at surface level to a few feet below the ground surface, and the building footprints would be restored to open grassy areas. Therefore, demolition activities associated with Alternative B would not impact groundwater on the WLA Campus. If groundwater is encountered during demolition, temporary dewatering would be necessary to keep the work area dry.

## 4.5.4.2 Impacts from Operations

Once Alternative B is fully implemented, impervious surfaces on the WLA Campus would cover approximately 129 acres, which is a decrease of approximately 16 acres (four percent) resulting from the restoration of demolished buildings to naturalized, open grassy areas and other similar vegetative conditions. This increase in vegetative cover on the WLA Campus would result in a beneficial impact to overall water quality, stormwater infiltration, and groundwater recharge quantities. Peak flows during storm events would be slightly reduced resulting from increased absorption. Natural landscapes allow for the infiltration of rainwater into the soil, thereby reducing surface runoff rates and allowing for the removal of pollutants. Therefore, the reduction in urban runoff in these new naturalized, open grassy areas would assist in protecting surface water quality and groundwater resources.

Surface flow drainage patterns may change slightly based on the increase of open grassy areas. However, stormwater would continue to be directed to the existing WLA Campus stormwater drainage system and managed under the WLA Campus's existing MS4 permit. There would be no adverse impacts to hydrology and water quality associated with Alternative B operations.

## 4.5.5 Alternative C (Demolition and New Construction)

Alternative C involves demolition of individual buildings throughout the WLA Campus (as described in Alternative B) with new construction of buildings to support future use activities. Demolition and construction activities would result in ground disturbance of approximately 58.1 acres (Table 2.2-4). Prior to demolition activities, existing tenants and services would be relocated to other buildings on the WLA Campus. Demolished buildings would be replaced with new buildings within the same project footprint. In addition, new construction is proposed on several existing parking areas, athletic fields, and vacant land as part of Alternative C.

### 4.5.5.1 Impacts from Construction

#### **4.5.5.1.1** *Water Quality*

As described in Section 3.5, Hydrology and Water Quality, no intermittent or perennial surface waterbodies are located on the WLA Campus. The arroyo, located within the northwestern edge of the WLA Campus (see Figure 3.9-1), has been significantly altered previously and only contains limited streamflow. No construction or demolition activities are expected to occur near the arroyo; therefore, no impacts to waterbodies are anticipated from implementation of Alternative C.

During construction, exposed soils would be susceptible to erosion from surface water runoff, temporarily increasing the potential for sedimentation in stormwater drainages. Temporary changes in on-site drainage patterns due to grading activities may also occur, resulting in possible sediment accumulation in

new locations that could block stormwater flows, potentially resulting in increased localized ponding or flooding during storm events. Soil deposits on paved roadways from construction vehicles could increase sediment loading to nearby stormwater drains, clogging inlets and reducing the functional capacity of the pipes to convey flows. Minor impacts to hydrology and surface water quality associated with exposed soils and project-related drainage alterations would be short-term until the vegetative cover is replaced following the completion of construction activities. Reestablishing vegetative cover for areas with exposed soil would result in beneficial impacts to water quality by reducing the potential for erosion and runoff during rainfall events. Construction activities would implement Mitigation Measures WQ-1 and GEO-1 to minimize potential for soil erosion.

Some of the WLA buildings proposed for demolition and/or construction may have the potential to impact water quality, including engineering shops, recycling facilities, medical facilities, and equipment storage (see Table 4.5-1). Spills or leaks from construction equipment and/or materials used at the buildings identified in Table 4.5-1 and for construction activities (e.g., oils, paints, solvents), including those stored at on-site construction staging areas, could lead to contaminated stormwater runoff and adversely affect water quality. If improperly handled, these pollutants could be transported in stormwater runoff that flows to the Pacific Ocean or infiltrate groundwater. See Section 4.12, Solid Waste and Hazardous Materials, for more information on the handling and storage of solid waste and hazardous materials.

Construction activities would not occur within or near the medical waste disposal areas in the arroyo (see Figure 3.12-1). As discussed in Section 3.5.2.3, Groundwater, contaminants and radionuclides have been found in the soil and groundwater within the arroyo, but were found to be at acceptable concentrations (U.S. Department of Veterans Affairs, 2016a). NRC has determined that the site posed no adverse risk to human health (NRC, 1981). Therefore, impacts to hydrology and water quality associated with the medical waste disposal areas are not anticipated.

Based on the lack of existing surface water features on the WLA Campus and through implementation of Mitigation Measures WQ-1 and GEO-1, short-term impacts on hydrology and water quality during construction would be minor.

### 4.5.5.1.2 Groundwater

Groundwater resources are not anticipated to be encountered during construction activities. Average depth to groundwater on the WLA Campus is typically greater than 70 feet below the surface, with some areas historically measuring less than 40 feet in the South Campus (see Section 3.4.2.3, Geological Hazards). Ground disturbance would occur several feet below the ground surface in some locations, including the proposed stormwater management system in the South Campus, which would require excavation activities extending approximately 15 feet down. Therefore, construction activities associated with Alternative C would not impact groundwater on the WLA Campus. If groundwater is encountered during construction, temporary dewatering would be necessary to keep the work area dry.

#### 4.5.5.2 Impacts from Operations

Once Alternative C is fully implemented, impervious surfaces on the WLA Campus would cover 159 acres due to the conversion of open grassy areas to new buildings, primarily within the northern part of

the WLA Campus, an increase by approximately 14 acres (four percent). Surface flow drainage patterns would likely change in the North Campus due to the decrease of open space resulting from the development of existing athletic fields, Heroes Golf Course, and recreational parks, yet stormwater would continue to be directed to the existing WLA Campus stormwater drainage system and to new stormwater management areas, where designed. For the South Campus, surface drainage features would remain similar to existing patterns as a result of maintaining a high density of impervious surfaces, but stormwater would likely be directed to new underground stormwater management areas.

Peak flows during storm events may slightly increase resulting from the removal of open grassy areas (primarily in the North Campus), reconfiguration of building sites, and addition of impervious surfaces. The expansion of impervious surfaces, including parking facilities, and potential increase in vehicle traffic could also result in higher levels of pollutants (e.g., petroleum, heavy metals, sediment) entering stormwater runoff.

Stormwater discharges would continue to be covered under the WLA Campus's existing MS4 permit. The potential change in stormwater flows would be captured through proposed stormwater management and mitigation necessary to meet VA, federal, and state requirements to reduce stormwater runoff to the maximum extent technically feasible. By incorporating LID measures during construction (Mitigation Measure WQ-2), there would be minor operation impacts to hydrology and water quality associated with Alternative C. Section 4.14, Utilities, provides additional information on operational impacts to the WLA Campus stormwater management system.

# 4.5.6 Alternative D (Renovation, Demolition, and New Construction)

Under Alternative D, there would be a combination of renovations of existing buildings, demolition of existing buildings with no replacement construction, demolition and construction of new buildings within existing building site areas, or construction of new buildings on existing parking areas, athletic fields, and vacant lands on the WLA Campus. Because Alternative D could include development in all buildings and areas affected under Alternative C, the maximum development alternative, demolition and construction activities under Alternative D could result in ground disturbance of up to 58.1 acres.

### 4.5.6.1 Impacts from Construction

## **4.5.6.1.1** *Water Quality*

As described in Section 3.5, Hydrology and Water Quality, no intermittent or perennial surface waterbodies are located on the WLA Campus. The arroyo, located within the northwestern edge of the WLA Campus (see Figure 3.9-1), has been significantly altered previously and only contains limited streamflow. No construction or demolition activities are expected to occur near the arroyo; therefore, no impacts to waterbodies are anticipated from implementation of Alternative D.

Minor impacts to hydrology and surface water quality resulting from construction activities would be short-term until the vegetative cover is replaced following the completion of construction activities. Erosion and sedimentation impacts and the potential for equipment spills or leaks would be minimized through implementation of Mitigation Measures WQ-1 and GEO-1.

Construction activities associated with the buildings listed in Table 4.5-1 would not occur within or near the medical waste disposal areas in the arroyo. As discussed in 3.5.2.3, Groundwater, contaminants and radionuclides have been found in the soil and groundwater at these historical medical waste disposal areas on the WLA Campus, but were found to be at acceptable concentrations (U.S. Department of Veterans Affairs, 2016a). NRC has determined that the site posed no adverse risk to human health (NRC, 1981). Therefore, no impacts to hydrology and water quality associated with the medical waste disposal areas are anticipated.

#### 4.5.6.1.2 Groundwater

Groundwater resources are not anticipated to be encountered during construction activities. Ground disturbance would occur several feet below the ground surface in some locations, including the proposed stormwater management system in the South Campus, which would require excavation activities extending approximately 15 feet down. Therefore, construction activities associated with Alternative D would not impact groundwater on the WLA Campus. If groundwater is encountered during construction, temporary dewatering would be necessary to keep the work area dry.

## 4.5.6.2 Impacts from Operations

Once Alternative D is fully implemented, impervious surfaces on the WLA Campus could cover up to 159 acres due to the conversion of open grassy areas to new buildings, primarily within the northern part of the WLA Campus, an increase by approximately 14 acres (four percent). This is consistent with Alternative C, which is the maximum development alternative. However, it is possible that the impervious surface area under Alternative D could be smaller as the reestablishment of natural landscaping would decrease impervious surfaces in areas of demolished buildings that are not replaced.

The potential impact of increased stormwater flows on the WLA Campus would be mitigated through the use of LID techniques during construction (Mitigation Measure WQ-2). By following the recommended mitigation measures, there would be minor operation impacts to hydrology and water quality associated with Alternative D. Continued coverage of stormwater discharges under the existing MS4 permit and landscaping activities with native plants and vegetation would result in beneficial impacts reducing stormwater runoff and improving water quality. Section 4.14, Utilities, provides additional information on operational impacts to the WLA Campus stormwater management system.

## 4.5.7 Alternative E (No Action)

Under Alternative E, the WLA Campus would remain the same as present day. No construction activities tied to the Proposed Action would occur on the WLA Campus.

#### 4.5.7.1 Impacts from Construction

Under Alternative E, there would be no construction-related changes to existing buildings on the WLA Campus. Therefore, no impacts to hydrology and water quality would occur.

## 4.5.7.2 Impacts from Operations

Under Alternative E, the existing buildings and operations would remain the same. The continued operation of the existing WLA Campus under Alternative E would not impact hydrology and water quality.

#### 4.6 Wildlife and Habitat

This section describes potential impacts to wildlife and habitat associated with the proposed realignment and development at the WLA Campus. As described in Section 3.6, Wildlife and Habitat, the WLA Campus has wildlife that thrives in an urban environment and habitats that have been altered through landscaping efforts.

#### 4.6.1 Evaluation Criteria

Several factors were considered in determining whether an activity would have a major impact on wildlife and habitat, including the following:

- Conflicts with existing federal, state, or local natural resource laws and regulations;
- Causes loss of individuals or reduction in existing habitat of a state or federally listed endangered, threatened, rare, protected or candidate species, or species of special concern, or federally listed critical habitat;
- Causes a substantial decline in native tree populations; and
- Causes an increase of invasive or introduces additional exotic species.

Impacts to special status species are described using specific terms defined by the USFWS and NOAA Fisheries (USFWS & NOAA Fisheries, 1998). For ESA- and CESA-listed species, the possible effects determinations are:

- No Effect: If the alternative will not affect listed species.
- May Affect but Not Likely to Adversely Affect: If effects on listed species are expected to be discountable, insignificant, or completely beneficial.
- May Affect and is Likely to Adversely Affect: If any adverse effect to a listed species may occur as a direct or indirect result of the alternative, or an interrelated or interdependent action, and the effect is not discountable, insignificant, or beneficial.

Critical habitat for plants or wildlife has not been designated on the WLA Campus; thus, there would be "no effect" on critical habitats for federally listed or state-listed plants and wildlife.

### 4.6.2 Assessment Methods

The evaluation criteria were reviewed to determine potential impact significance using a qualitative approach based on reviewing federal and state species databases and site reconnaissance data. Impacts to

fisheries, federally listed plants, and federally listed wildlife are not anticipated as they are not present on the WLA Campus.

## 4.6.3 Alternative A (Existing Building Renovations)

Alternative A involves renovations to buildings on the WLA Campus. These renovations would generally affect only the interior of those buildings, while some buildings may have exterior renovations to facades and entrances. The footprint of the existing buildings would not change. No buildings would be demolished or involve any new exterior construction activities.

Renovation activities would have no impacts to existing federal, state, or local natural resource laws and regulations, as activities would not conflict with existing laws and regulations.

## 4.6.3.1 Impacts from Construction

While Alternative A involves primarily interior renovations to facilities, some exterior work may occur around building entrances and foundations. This may include trimming of nearby trees, shrubs, and other landscaped vegetation. Trees interfering with building entrances or having root systems with the potential to cause structural issues with buildings may be removed. Trees in close proximity to buildings include the rubber tree (*Ficus elastica*), Moreton Bay fig, and giant bird of paradise tree (*Strelitzia nicolai*). When construction is completed, grasses would be replanted or the grounds would be re-landscaped, preferably with native plants (Mitigation Measure WH-3). Removal of landscaped tree species would not constitute an adverse impact on vegetation and habitats because these species are not native to the area. There would be no impacts to native California trees.

No impacts to wildlife are anticipated. However, increased human presence and noise due to renovation activities may cause wildlife, particularly birds, to flush, startle, or relocate. These impacts, if any, are anticipated to be minor and short-term because as renovation activities are completed, wildlife would return.

No perennial streams are present on the WLA Campus, and the WLA Campus does not support fisheries or most aquatic life. Therefore, Alternative A would have no impacts on fisheries.

As reported in Section 3.6, Wildlife and Habitat, the on-site protected species survey conducted in November 2017 did not observe any federally listed species or potential habitat that could support federally listed species (U.S. Department of Veterans Affairs, 2018c). As such, Alternative A would have "no effect" on federally listed plants and wildlife, either direct or indirect. Only the Monarch butterfly was noted on the WLA Campus during the protected species survey with a low probability of occurrence, as solitary, transient visitors (Figure 3.6-6). Proposed renovation activities would primarily occur indoors with minimal exterior renovations and would not affect any transient visiting Monarch butterflies. Other state-listed species and their potential habitat were not observed on the WLA Campus during surveys (U.S. Department of Veterans Affairs, 2018c). As Alternative A involves only interior and minimal exterior renovations to facilities, "no effect" on state-listed plants and wildlife would result.

## 4.6.3.2 Impacts from Operations

The planned and future use of the WLA Campus buildings under Alternative A would not result in changes to wildlife and habitat surrounding these facilities. Landscaping with native plants and vegetation would likely result in beneficial impacts to wildlife and habitat by reducing the quantity of invasive species on the campus and providing habitat for native California wildlife. No impacts to wildlife and habitat from facility operations are anticipated to result under Alternative A.

## 4.6.4 Alternative B (Existing Building Demolition)

Alternative B involves demolition of individual WLA Campus buildings. Parking areas, athletic fields, and vacant land are not proposed to be altered under Alternative B.

## 4.6.4.1 Impacts from Construction

Demolition activities would involve large construction-related equipment and increased noise, but would occur within disturbed and previously graded areas. Vegetation near existing buildings, such as grasses and landscape plants, would be removed or destroyed by demolition activities. Post-demolition activities would plan for landscaping and restoration efforts to restore the demolished footprints into green space, preferably revegetated with native plants (Mitigation Measure WH-3). Activities would have minor, short-term impacts on vegetation and no impact on native tree populations.

Species occurring on the WLA Campus are those that thrive in the urban environment, although increased human presence and noise during demolition activities could cause relocation of individuals nearest to affected buildings. Birds in the area may relocate for the duration of demolition activities but would be expected to return upon completion. Prior to disturbing any necessary trees or shrubs, a visual inspection for active and inactive nest structures would be conducted (Mitigation Measure WH-1). Should nests be found, protective measures would be evaluated and implemented on a case-by-case basis. <sup>30</sup> Impacts, if any, are anticipated to be minor and short-term, because as construction is completed, wildlife would return.

No perennial streams are present on the WLA Campus to support fisheries or most aquatic life. Therefore, activities would have no impacts on fisheries.

As detailed in Section 3.6, Wildlife and Habitat, federally listed species were neither observed on the WLA Campus, nor was potential habitat that could support federally listed species (U.S. Department of Veterans Affairs, 2018c). As such, Alternative B would have "no effect" on federally listed plants and wildlife, either direct or indirect. The WLA Campus does not contain potential habitat for state-listed species, and any additional habitat created through landscaping is unlikely to be appropriate habitat for state-listed species. Transient individual Monarch butterflies are known to occur on the WLA Campus (Figure 3.6-6), but these individuals do not appear to be part of the winter migration population. Therefore, demolition activities would have "no effect" on state-listed species.

<sup>30</sup> USFWS provides Nationwide Standards for Conservation Measures for migratory birds, particularly for potential stressors resulting from vegetation removal. For more information, see <a href="https://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf">https://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf</a>. If these measures cannot be followed,

then VA would contact the local USFWS office.

## 4.6.4.2 Impacts from Operations

With the proposed demolition activities, new landscaping and grasses would be planted to create naturalized and open grassy areas on the WLA Campus. Previous landscaping activities at the WLA Campus have introduced a variety of non-native species that are currently listed on the California Invasive Plant List (Center for Invasive Species and Ecosystem Health, 2006). To maintain compliance with EO 13751, *Safeguarding the Nation from the Impacts of Invasive Species*, subsequent landscaping would need to avoid the planting or spread of invasive species found on the WLA Campus such as the blue gum eucalyptus and the Mexican fan palm. Demolition activities would not conflict with federal, state, or local natural resource laws and regulations.

The planned and future use of these areas with native trees and vegetation for landscaping would likely result in beneficial impacts to wildlife and habitat by reducing the quantity of invasive species on the campus and providing habitat for native California wildlife. No adverse impacts to wildlife and habitat from facility operations are anticipated to result under Alternative B.

## 4.6.5 Alternative C (Demolition and New Construction)

Alternative C involves full demolition of individual buildings throughout the WLA Campus with new construction of buildings within the existing footprints to support future use activities. Additional new construction is proposed for parking areas, athletic fields, and vacant land on the North Campus.

## 4.6.5.1 Impacts from Construction

Demolition and pre-construction activities would involve large construction-related equipment and increased noise but would occur within disturbed and previously graded areas. Vegetation near existing buildings to be demolished would likely be removed. Vegetation in existing athletic fields and vacant land consists primarily of grasses with a few ornamental landscaping trees, which may be removed to create the footprint for new construction. Tree species that could be removed from Heroes Golf Course include the Italian stone pine (*Pinus pinea*), flame tree (*Brachychiton acerifolius*), California fan palm (*Washingtonia filifera*), and Chinese elm (*Ulmus parvifolia*). Tree species that could be removed from MacArthur Field include the queen palm (*Syagrus romanzoffiana*) and Mexican fan palm. Veterans Barrington Park is primarily grass and bare ground, with blue gum eucalyptus trees found on the periphery. VA-lead projects would protect existing mature trees and vegetation where possible, particularly non-invasive trees or plant species (Mitigation Measure WH-2). Tree stands on the periphery of the existing athletic fields would also remain, as would any trees that provide a visual buffer to the WLA Campus for neighbors to the north and northwest.

California native trees do not occur near the buildings marked for demolition or on existing athletic fields and vacant land proposed for new construction. The nearest California native trees located in proximity to new construction are a stand of Western sycamores found in the Japanese Garden, adjacent to Heroes Golf Course. Proposed construction at Heroes Golf Course would occur more than 150 feet from the Western sycamore stand at the Japanese Garden. As detailed in Section 3.6.1.9, Western sycamores are protected under the City of Los Angeles Native Tree Protection Ordinance 177404. Alternative C would have minor impacts on vegetation and no impact on native tree populations.

Species occurring on the WLA Campus are those that thrive in the urban environment, although an increased human presence and noise during demolition and construction activities could cause relocation of individual species nearest to affected buildings. Birds in the area may relocate for the duration of demolition but would be expected to return upon completion. Prior to disturbing any necessary trees or shrubs, a visual inspection for active and inactive nest structures would be conducted (Mitigation Measure WH-1). Should nests be found, protective measures would be evaluated and implemented on a case-by-case basis, as noted in Section 4.6.4.1, Impacts from Construction. Existing WLA Campus athletic fields and vacant land are not notable habitat for wildlife. Impacts, if any, are anticipated to be minor and short-term, because as construction is completed, wildlife would return.

No perennial streams are present on the WLA Campus to support fisheries or most aquatic life. Therefore, demolition and construction activities would have no impacts on fisheries.

As described in Section 3.6, Wildlife and Habitat, federally listed species were not observed on the WLA Campus during the protected species survey, nor was potential habitat observed that could support federally listed species (U.S. Department of Veterans Affairs, 2018c). As such, Alternative C would have "no effect" on federally listed plants and wildlife, either direct or indirect. The WLA Campus does not contain potential habitat for state-listed species, and any additional habitat created through landscaping is unlikely to be appropriate habitat for state-listed species. Transient individual Monarch butterflies are known to occur on the WLA Campus (Figure 3.6-6), yet only during their mid-October through February migration season. Therefore, demolition and construction activities would have "no effect" on state-listed species.

# 4.6.5.2 Impacts from Operations

The planned and future use of the WLA Campus new and replacement buildings would result in no changes to wildlife and habitat surrounding these facilities. Continued landscaping activities with native plants and vegetation would result in beneficial impacts to wildlife and habitat by reducing the quantity of invasive species on the campus and by providing habitat for native California wildlife (Mitigation Measure WH-3).

Previous landscaping activities at the WLA Campus have introduced a variety of non-native species that are currently listed on the California Invasive Plant List (Center for Invasive Species and Ecosystem Health, 2006). To maintain compliance with EO 13751, *Safeguarding the Nation from the Impacts of Invasive Species*, subsequent landscaping would need to avoid the planting or spread of invasive species found on the WLA Campus such as the blue gum eucalyptus and the Mexican fan palm. The planned and future use of these areas with native trees and vegetation for landscaping would likely result in beneficial impacts to wildlife and habitat by reducing the quantity of invasive species on the campus and by providing habitat for native California wildlife. No impacts to wildlife and habitat from facility operations are anticipated to result under Alternative C.

# 4.6.6 Alternative D (Renovation, Demolition, and New Construction)

Under Alternative D, there would be a combination of renovations and retrofits of existing buildings on the WLA Campus, demolition of existing buildings with no replacement construction, demolition and

construction of new buildings within existing building site areas, or construction of new buildings on existing parking areas, athletic fields, and vacant lands on the WLA Campus.

## 4.6.6.1 Impacts from Construction

Alternative D would result in similar potential impacts noted in Alternatives A through C. Impacts related to vegetation, habitat, and wildlife from the implementation of Alternative D vary depending on the project activity and project site as described below. Due to the lack of fisheries, federally listed plants, and federally listed wildlife at the WLA Campus, there are no anticipated impacts resulting from construction to those resources. There are also no anticipated impacts resulting from construction to state-listed plants and wildlife due to the lack of suitable habitat and the transient nature of species present.

Under Alternative D, implementation of renovations to existing buildings on the WLA Campus may result in minor, short-term impacts to vegetation resulting from any necessary removal or trimming of landscaped trees, shrubs, or grasses near to building facades and entrances, or having the potential to cause structural damage. The implementation of building demolition and subsequent creation of naturalized and open green areas would have minor, short-term impacts to vegetation resulting from the removal of landscaped plants near to buildings slated for demolition. Implementation of construction of new buildings within existing building site areas, or construction of new buildings on existing parking areas, athletic fields, and vacant lands on the WLA Campus would have minor impacts on vegetation within the footprint of new construction. Existing mature trees and vegetation would be preserved where possible, particularly non-invasive trees or plant species (Mitigation Measure WH-2).

Increased human presence and construction noise may cause wildlife, particularly birds closest to the area of construction, to flush, startle, or relocate. This could occur for all aspects of Alternative D. Prior to disturbing any necessary trees or shrubs, a visual inspection for active and inactive nest structures would be conducted (Mitigation Measure WH-1). Should nests be found, protective measures would be evaluated and implemented on a case-by-case basis, as noted in Section 4.6.4.1, Impacts from Construction. Impacts from construction noise and the removal of landscaped vegetation near to existing buildings, if any, are anticipated to be minor and short-term, because as construction is completed, wildlife would return.

Under Alternative D, several structures are anticipated to be fully demolished, and the planned and future use of these areas includes revegetation and restoration with native trees and vegetation (Mitigation Measure WH-3). This would likely result in beneficial impacts to wildlife and habitat by reducing the quantity of invasive species on the campus and by providing habitat for native California wildlife.

Under Alternative D, existing athletic fields and vacant land are anticipated to be sites for new construction. These areas are not notable habitat for wildlife. Impacts, if any, are anticipated to be minor and short-term, because as construction is completed, wildlife would return.

## 4.6.6.2 Impacts from Operations

Alternative D would result in similar potential impacts noted in Alternatives A through C. Impacts related to vegetation, habitat, and wildlife from the operation of Alternative D vary depending on the

project activity and project site as described below. There are no anticipated impacts resulting from operation to fisheries, federally listed plants, or wildlife due to the lack of these resources at the WLA Campus. There are no anticipated impacts resulting from operations to state-listed plants and wildlife due to the lack of suitable habitat and the transient nature of species present.

Under Alternative D, the planned and future use of renovated buildings and construction on existing building site areas at the WLA Campus would not result in changes to wildlife and habitat surrounding these facilities. Previous landscaping activities at the WLA Campus have introduced a variety of nonnative species that are currently listed on the California Invasive Plant List (Center for Invasive Species and Ecosystem Health, 2006). To maintain compliance with EO 13751, *Safeguarding the Nation from the Impacts of Invasive Species*, subsequent landscaping around new or renovated buildings, or in areas where buildings have been demolished, would avoid the planting or spread of invasive species found on the WLA Campus such as the blue gum eucalyptus and the Mexican fan palm. The planned and future use of these areas with native trees and vegetation for landscaping would likely result in beneficial impacts to wildlife and habitat by reducing the quantity of invasive species on the campus and by providing habitat for native California wildlife. No impacts to wildlife and habitat from facility operations are anticipated to result under Alternative D.

Existing athletic fields and vacant land are not notable habitat for wildlife. Impacts, if any, are anticipated to be minor and short-term, because as construction is completed, wildlife would return.

## 4.6.7 Alternative E (No Action)

Under Alternative E, the WLA Campus would remain the same as present day. No construction activities tied to the Proposed Action would occur on the WLA Campus.

## 4.6.7.1 Impacts from Construction

Under Alternative E, there would be no renovating or retrofitting of existing buildings on the WLA Campus. Therefore, no construction-related impacts would occur to wildlife and habitat as a result of Alternative E.

### 4.6.7.2 Impacts from Operations

Under Alternative E, there would be no change in wildlife and habitat on the WLA Campus as the existing buildings and operations would remain the same as present day. No new operational changes of existing uses would occur. The continued operation of the existing WLA Campus under Alternative E would not impact wildlife and habitat.

#### 4.7 Noise and Vibration

This section describes potential impacts to noise associated with the proposed realignment and development at the WLA Campus. To assess the potential noise impacts from construction, sensitive receptors and their relative levels of exposure were identified.

### 4.7.1 Evaluation Criteria

There is the potential for an adverse noise impact if:

- Noise levels at noise sensitive receptors would exceed 55 dBA as stated in the EPA guidelines pursuant to the 1972 Noise Control Act (U.S. Environmental Protection Agency, 1974).
- The project would result in exposure of persons to or generation of noise levels in excess of standards established in City of Los Angeles and/or Los Angeles County noise ordinances, whichever applies;
- Persons or structures are exposed to excessive ground borne vibration of 65 VdB or above for land uses where low ambient vibration is essential for interior operations such as hospitals, hightech manufacturing, and laboratory facilities; 80 VdB or above for residential uses and buildings where people normally sleep; and 83 VdB or above for institutional land uses with primarily daytime operations such as schools, churches, clinics, and offices as recommended by the FTA (Federal Transit Administration, 2018).

#### 4.7.2 Assessment Methods

Noise sensitive land uses and major noise sources were identified based on existing documentation (e.g., equipment noise levels and attenuation rates) and site reconnaissance data. Construction noise generated by the Proposed Action was predicted using the Roadway Construction Noise Model (RCNM). The RCNM is a tool developed by the Federal Highway Administration and is typically used to estimate noise levels for construction projects based on empirical data of equipment noise and acoustical propagation formula (U.S. Department of Transportation, 2017). Noise levels of specific construction equipment and resultant noise levels at representative locations were calculated. Baseline ambient noise levels (Section 3.7, Noise and Vibration) were compared with the predicted noise generated by the proposed alternatives.

For some projects, complex models are created to model and assess various types of noise, including aviation noise, rail noise, or highway noise. Because the WLA Campus currently does not involve factors that would prompt the use of any specific models, a general noise impact model was used to measure impacts from construction operations. Given the proximity of Jackie Robinson Stadium, recreational noise activities may also be present in the study area. While these noise impacts were captured in the noise monitoring activities completed as a part of this study, no changes are expected to occur to levels of recreational activity on the WLA Campus. As such, recreational noise impacts are not further evaluated in this PEIS.

Ground-borne vibration impacts from construction activities were qualitatively assessed based on existing documentation (e.g., vibration levels produced by specific construction equipment operations) and the distance of sensitive receptors from the given source. Vibration levels were predicted, and impacts were evaluated against established thresholds.

The noise model predicted noise levels for each of the three noise-generating activities (i.e., renovation, demolition, and construction) attributed to the alternatives. The model predicted noise levels using default values for equipment specification sound levels and usage factors and represents the "worst case" scenario noise levels. The "worst case" scenario is defined as the situation in which the RCNM assumes

all construction equipment for each project would be used concurrently and is not dependent on the construction schedule. In theory, this would produce the loudest noise disturbance as all projects would be modeled occurring simultaneously. In reality, not all construction equipment would be used at the same time. Consequently, the model results in this PEIS would predict the loudest possible noise disturbance or "worst case" scenario. The main assumptions in the modeling approach were:

- All equipment is in use simultaneously for the four alternatives of A, B, C, and D (conservative assumption overestimating predicted noise levels).
- Construction site is surrounded by a noise barrier with some gaps (providing an estimated noise shielding of 5 dBA).
- Outdoor noise levels were predicted at distances from the source equipment of 100 feet and 500 feet.

The following pieces of construction equipment were assumed to potentially be in use for renovation activities:

- Backhoe
- Compactor (ground)
- Compressor (air)
- Crane
- Dump truck
- Flatbed truck
- Front end loader

- Generator
- Man lift
- Pickup truck
- Pneumatic tools
- Pumps
- Warning horn

The resulting predicted equivalent continuous noise level ( $L_{eq}$ ) for renovation activities at a distance of 100 feet is 77.6 dBA (Figure 4.7-1) and at a distance of 500 feet is 63.7 dBA (Figure 4.7-2). However, it is important to note that the RCNM does not take into account whether construction activities occur indoors or outdoors; therefore, the model's outputs do not include noise attenuation associated with activities happening indoors. A report published by the Highway Research Board suggests a noise reduction of 12-30 dBA for indoor activities (Highway Research Board- National Research Council-National Academy of Sciences, 1971). Since the predicted noise levels represent the "worst case" scenario noise levels as the RCNM assumes all construction equipment would be used concurrently, applying a noise attenuation of 12 dBA would reduce the resulting predicted equivalent continuous noise level ( $L_{eq}$ ) for renovation activities at a distance of 100 feet to 65.6 dBA and at a distance of 500 feet to 51.7 dBA.

Roadway Constructi	on Noise Mod	el (RCNM),V	ersion 1.1												
Report date:	05/03/2018														
Case Description:	WLA VA EIS-	Renovation	Activities												
				Equi	oment										
				Spec	Actual	Recentor	Estimated								
		Impact		Lmax	Lmax		Shielding								
Description		Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)								
Backhoe		No	40	80	(- /	100	5								
Compactor (ground)		No	20	80		100	5								
Compressor (air)		No	40	80		100	5								
Crane		No	16	85		100	5								
Dump Truck		No	40	84		100	5								
Flat Bed Truck		No	40	84		100	5								
Front End Loader		No	40	80		100	5								
Generator		No	50	82		100	5								
Man Lift		No	20	85		100	5								
Pickup Truck		No	40	55		100	5								
Pneumatic Tools		No	50	85		100	5								
Pumps		No	50	77		100	5								
Warning Horn		No	5	85		100	5								
		Results													
		Calculat	ted (dBA)			Noise Lin	nits (dBA)				Noi	se Limit Exc	eedance (	dBA)	
				D	ay	Eve	ning	Ni	ght	Da	ay	Eve	ning	Ni	ght
Equipment	_	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Backhoe		69	65	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Compactor (ground)		69	62	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Compressor (air)		69	65	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Crane		74	66	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Dump Truck		73	69	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Flat Bed Truck		73	69	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Front End Loader		69	65	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Generator		71	68	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Man Lift		74	67	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Pickup Truck		44	40	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Pneumatic Tools		74	71	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Pumps		66	63	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Warning Horn		74	61	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
	Total	74	77.6	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
		*Calculate	ed Lmax is th	e Loudest	value.										

Note: dBA = A-weighted decibel, Leq = equivalent continuous noise level, Lmax = maximum noise level.

Figure 4.7-1. Renovation Noise Estimates at 100 Feet from Source

Roadway Construction	on Noise Mod	el (RCNM),	Version 1.1												
Report date:	05/03/2018														
	WLA VA EIS- F	Renovation	Activities												
Cuse Bescription			ictivities												
					oment										
				Spec	Actual		Estimated								
		Impact		Lmax	Lmax		Shielding								
Description		Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)								
Backhoe		No	40	80		500	5								
Compactor (ground)		No	20	80		500	5								
Compressor (air)		No	40	80		500	5								
Crane		No	16	85		500	5								
Dump Truck		No	40	84		500	5								
Flat Bed Truck		No	40	84		500	5								
Front End Loader		No	40	80		500	5								
Generator		No	50	82		500	5								
Man Lift		No	20	85		500	5								
Pickup Truck		No	40	55		500	5								
Pneumatic Tools		No	50	85		500	5								
Pumps		No	50	77		500	5								
Warning Horn		No	5	85		500	5								
		Results													
		Calculat	ed (dBA)			Noise Lin	nits (dBA)				Noi	se Limit Exc	eedance (	dBA)	
				D	ay	Eve	ning	Ni	ght	D	ay	Eve	ning	Ni	ght
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Backhoe		55	51	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Compactor (ground)		55	48	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Compressor (air)		55	51	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Crane		60	52	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Dump Truck		59	55	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Flat Bed Truck		59	55	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Front End Loader		55	51	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Generator		57	54	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Man Lift		60	53	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Pickup Truck		30	26	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Pneumatic Tools		60	57	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Pumps		52	49	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Warning Horn		60	47	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
-	Total	60	63.7	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
		*Calculate	d Lmax is th	e Loudest	value.										

Note: dBA = A-weighted decibel,  $L_{eq} = equivalent$  continuous noise level,  $L_{max} = maximum$  noise level.

Figure 4.7-2. Renovation Noise Estimates at 500 Feet from Source

The following pieces of construction equipment were assumed to potentially be in use for the demolition activities:

- Backhoe
- Concrete saw
- Dozer
- Front end loader
- Tractor

The resulting predicted equivalent continuous noise level ( $L_{eq}$ ) for demolition activities at a distance of 100 feet is 76.0 dBA (Figure 4.7-3) and at a distance of 500 feet is 62.0 dBA (Figure 4.7-4).

Roadway Construct	ion Noise Mod	el (RCNM),	Version 1.1												
Report date:	05/07/2018														
Case Description:	WLA VA EIS-	Demolition	Activities												
				Equir	oment										
				Spec	Actual	Receptor	Estimated								
		Impact		Lmax	Lmax	Distance	Shielding								
Description		Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)								
Backhoe	_	No	40	80	V- /	100	5								
Concrete Saw		No	20	90		100	5								
Dozer		No	40	85		100	5								
Front End Loader		No	40	80		100	5								
Tractor		No	40	84		100	5								
		Results													
		Calcula	ted (dBA)			Noise Lin	nits (dBA)				Noi	se Limit Exc	eedance (	BA)	
				D	ay	Eve	ning	Ni	ght	D	ау	Eve	ning	Ni	ght
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Backhoe		69	65	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Concrete Saw		79	72	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Dozer		74	70	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Front End Loader		69	65	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Tractor		73	69	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
	Total	79	76	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
		*Calculate	ed Lmax is th	e Loudest	value.										

Note: dBA = A-weighted decibel,  $L_{eq} = equivalent$  continuous noise level,  $L_{max} = maximum$  noise level.

Figure 4.7-3. Demolition Noise Estimates at 100 Feet from Source

Roadway Construct	tion Noise Mod	del (RCNM),	Version 1.1												
Report date:	05/07/2018														
Case Description:	WLA VA EIS-	Demolition	Activities												
				Equ	ipment										
				Spec	Actual	Receptor	Estimated								
		Impact		Lmax	Lmax	Distance	Shielding								
Description	_	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)	•							
Backhoe		No	40	80		500	5								
Concrete Saw		No	20	90		500	5								
Dozer		No	40	85		500	5								
Front End Loader		No	40	80		500	5								
Tractor		No	40	84		500	5								
		Results													
		Calcula	ted (dBA)			Noise Lir	mits (dBA)				No	oise Limit E	xceedance	(dBA)	
				- 1	Day	Eve	ening	1	Night	1	Day	Ev	ening	1	Night
Equipment	_	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Backhoe		55	51	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Concrete Saw		65	58	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Dozer		60	56	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Front End Loader		55	51	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Tractor		59	55	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
	Total	65	62	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
		*Calculat	ed Lmax is t	he Loudes	t value.										

 $Note: dBA = A - weighted \ decibel, \ L_{eq} = equivalent \ continuous \ noise \ level, \ L_{max} = maximum \ noise \ level.$ 

Figure 4.7-4. Demolition Noise Estimates at 500 Feet from Source

The following pieces of construction equipment were assumed to potentially be in use for construction activities:

- Backhoe
- Compactor (ground)
- Compressor (air)
- Concrete mixer truck
- Concrete pump truck
- Concrete saw
- Crane
- Dozer
- Dump truck
- Excavator

- Flatbed truck
- Front end loader
- Generator
- Grader
- Man lift
- Pickup truck
- Pneumatic tools
- Pumps
- Scraper
- Warning horn

The resulting predicted equivalent continuous noise level ( $L_{eq}$ ) for the construction activities at a distance of 100 feet is 81.0 dBA (Figure 4.7-5) and at a distance of 500 feet is 67.0 dBA (Figure 4.7-6).

At distance from the noise-generating activities of greater than 2,000 feet (0.38 miles), predicted noise levels are not significantly above measured background sound levels and would not likely have an adverse impact on receptors.

Roadway Construction	n Noise Mode	el (RCNM),\	ersion 1.1												
Report date:	05/25/2018														
Case Description:	WLA VA EIS	- Construct	ion Activities												
				Equi	oment										
				Spec	Actual		Estimated								
		Impact		Lmax	Lmax		Shielding								
Description	_	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)								
Backhoe		No	40	80		100	5								
Compactor (ground)		No	20	80		100	5								
Compressor (air)		No	40	80		100	5								
Concrete Mixer Truck		No	40	85		100	5								
Concrete Pump Truck		No	20	82		100	5								
Concrete Saw		No	20	90		100	5								
Crane		No	16	85		100	5								
Dozer		No	40	85		100	5								
Dump Truck		No	40	84		100	5								
Excavator		No	40	85		100	5								
Flat Bed Truck		No	40	84		100	5								
Front End Loader		No	40	80		100	5								
Generator		No	50	82		100	5								
Grader		No	40	85		100	5								
Man Lift		No	20	85		100	5								
Pickup Truck		No	40	55		100	5								
Pneumatic Tools		No	50	85		100	5								
Pumps		No	50	77		100	5								
Scraper		No	40	85		100	5								
Warning Horn		No	5	85		100	5								
		Results	+l / -l D A \			Nietes Lie	-: (-ID A)				NI -:		/	-ID A)	
		Calcula	ted (dBA)				nits (dBA)	NI:	_1_			se Limit Exc			-1-4
					ay .		ning		ght		ay	Eve			ght
Equipment	_	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Backhoe		69	65	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Compactor (ground)		69	62	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Compressor (air)		69	65	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Concrete Mixer Truck		74	70	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Concrete Pump Truck		71	64	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Concrete Saw		79	72	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Crane		74	66	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Dozer		74	70	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Dump Truck		73	69	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Excavator		74	70	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Flat Bed Truck		73	69	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Front End Loader		69	65	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Generator		71	68	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Grader		74	70	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Man Lift		74	67	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Pickup Truck		44	40	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Pneumatic Tools		74	71	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Pumps		66	63	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Scraper		74	70	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Warning Horn		74	61	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
	Total	79	81	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
		*Calculate	ed Lmax is th	e Loudest	value.										

Note: dBA = A-weighted decibel,  $L_{eq} =$  equivalent continuous noise level,  $L_{max} =$  maximum noise level.

Figure 4.7-5. Construction Noise Estimates at 100 Feet from Source

Roadway Construction	n Noise Mode	l (RCNM),v	ersion 1.1												
Report date:	05/25/2018														
Case Description:	WLA VA EIS-	Constructi	on Activities												
-				Equip	ment										
				Spec	Actual	Receptor	Estimated								
		Impact		Lmax	Lmax	Distance	Shielding								
Description		Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)								
Backhoe		No	40	80		500	5								
Compactor (ground)		No	20	80		500	5								
Compressor (air)		No	40	80		500	5								
Concrete Mixer Truck		No	40	85		500	5								
Concrete Pump Truck		No	20	82		500	5								
Concrete Saw		No	20	90		500	5								
Crane		No	16	85		500	5								
Dozer		No	40	85		500	5								
Dump Truck		No	40	84		500	5								
Excavator		No	40	85		500	5								
Flat Bed Truck		No	40	84		500	5								
Front End Loader		No	40	80		500	5								
Generator		No	50	82		500	5								
Grader		No	40	85		500	5								
Man Lift		No	20	85		500	5								
Pickup Truck		No	40	55		500	5								
Pneumatic Tools		No	50	85		500	5								
Pumps		No	50	77		500	5								
Scraper		No	40	85		500	5								
Warning Horn		No	5	85		500	5								
		Results	ted (dBA)			Naise Lie	mita (dDA)				Nai	se Limit Exc		dD v)	
		Calculat	leu (ubA)		ay		nits (dBA)	NI:	abt				,		abt
Fauinment		*1 may	Lon				ning		ght		ay	Ever	-		ght
Equipment Backhoe		*Lmax 55	Leq 51	Lmax 90	Leq 90	Lmax	Leq N/A	Lmax	Leq N/A	Lmax	Leq	Lmax	Leq N/A	Lmax	Leq
		55	48	90	90	N/A N/A	N/A	N/A		None	None	N/A N/A	N/A N/A	N/A N/A	N/A
Compactor (ground) Compressor (air)		55	46 51	90	90	N/A N/A	N/A N/A	N/A N/A	N/A N/A	None None	None None	N/A N/A	N/A N/A	N/A N/A	N/A N/A
Concrete Mixer Truck		60	56	90	90	N/A N/A	N/A N/A	N/A N/A	N/A N/A			N/A N/A	N/A N/A	N/A N/A	N/A N/A
Concrete Pump Truck		57	50	90	90	N/A N/A				None None	None None	N/A		N/A N/A	
Concrete Saw		65	58	90	90	N/A N/A	N/A N/A	N/A N/A	N/A N/A	None	None	N/A	N/A N/A	N/A N/A	N/A N/A
Crane		60	52	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Dozer		60	56	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Dump Truck		59	55	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Excavator		60	56	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Flat Bed Truck		59	55	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Front End Loader		55	51	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Generator		57	54	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Grader		60	56	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Man Lift		60	53	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Pickup Truck		30	26	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Pneumatic Tools		60	57	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Pumps		52	49	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Scraper		60	56	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
Warning Horn		60	47	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A
						,			,			•			, .
Training rioini	Total	65	67	90	90	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A

Note: dBA = A-weighted decibel,  $L_{\text{eq}}$  = equivalent continuous noise level,  $L_{\text{max}}$  = maximum noise level.

Figure 4.7-6. Construction Noise Estimates at 500 Feet from Source

Table 4.7-1 summarizes the noise estimates per activity and distance from receptor and Table 4.7-2 presents the noise exceedances expected during each activity at each of the 10 monitoring sites based on the ambient noise levels described in Section 3.7, Noise and Vibration (Table 3.7-9).

Table 4.7-1. Summary of Noise Levels by Activity and Distance from Source

A adjustas	Noise le	Noise levels (L <sub>eq</sub> )								
Activity	100 ft from Source	500 ft from Source								
Renovation	65.6	51.7								
Demolition	76.0	62.0								
Construction	81.0	67.0								

Table 4.7-2. Noise Exceedances per Monitoring Location and Activity

	Ambient		Noise Excee	dance (dBA)
Monitoring Location	Noise Level/L <sub>Aeq</sub> (dBA)	Activity	100 ft from Source	500 ft from Source
		Renovation	4.9	Below Ambient
VA Hospital	60.7	Demolition	15.3	1.3
		Construction	20.3	6.3
D I D l.'		Renovation	5.1	Below Ambient
Bonsall and Pershing Avenue	60.5	Demolition	15.5	1.5
Avoildo		Construction	20.5	6.5
		Renovation	7.0	Below Ambient
Brentwood School	58.6	Demolition	17.4	3.4
		Construction	22.4	8.4
		Renovation	7.7	Below Ambient
Veterans Park Conservancy	57.9	Demolition	18.1	4.1
Conservancy		Construction	23.1	9.1
Bonsall and Patton		Renovation	10.1	Below Ambient
Avenue (near Building	55.5	Demolition	20.5	6.5
300)		Construction	25.5	11.5
		Renovation	11.0	Below Ambient
Helipad (near solar fields off Dowlen Drive)	54.6	Demolition	21.4	7.4
neids on Dowlen Drive)		Construction	26.4	12.4
Near CalVet (near		Renovation	10.8	Below Ambient
Building 264 on	54.8	Demolition	21.2	7.2
Gorham Avenue)		Construction	26.2	12.2
		Renovation	10.5	Below Ambient
Mixed Use Park (near Eisenhower Avenue)	55.1	Demolition	20.9	6.9
Liselinower Avenue)		Construction	25.9	11.9
Soccer Fields (near		Renovation	13.4	Below Ambient
Parking Lot 38 off	52.2	Demolition	23.8	9.8
MacArthur Avenue)		Construction	28.8	14.8
Heroes Golf Course		Renovation	7.1	Below Ambient
(near the Japanese		Demolition	17.5	3.5
Garden)		Construction	22.5	8.5

# 4.7.3 Alternative A (Existing Building Renovations)

Alternative A involves renovations to buildings on the WLA Campus. These renovations would generally affect only the interior of those buildings, while some buildings may have exterior renovations to facades and entrances. None of the buildings would be demolished or require extensive exterior construction activities. During renovations, existing tenants and services would be relocated to other buildings on the WLA Campus.

## 4.7.3.1 Impacts from Construction

Renovation activities would be accompanied by a conservatively predicted short-term noise level increase to approximately 65.6 dBA at 100 feet from the source and 51.7 dBA at 500 feet from the source. As described in Section 3.7, Noise and Vibration, and Figure 3.7-1, these noise levels are similar to an alarm clock at three feet distance and normal conversation from five feet away, respectively. It is important to note that the predicted noise levels represent "worst case" scenario noise levels as the RCNM assumes all construction equipment would be used concurrently.

Sound levels in the immediate vicinity of the renovation activities averaged over an entire day may approach the EPA and/or Los Angeles County noise levels standards for outdoor activity and may be noticeable to employees and residents on the WLA Campus and visitors. However, the increase in noise levels near the renovation activities is expected to be short-term. As the distance from the source is increased, the noise levels attributable to the renovation activities continue to decrease and approach existing background sound levels. Depending on the receptor and site-specific conditions (including sound shielding), the perceived impacts from the increase in noise levels would be consistent with typical urban construction projects. Following Mitigation Measure NOI-1, activities would be scheduled for daytime hours and utilize proper equipment maintenance and noise shielding to minimize noise level increases from the renovations. Construction activities would abide by County noise ordinances, unless otherwise permitted.

The daily commute of construction workers and deliveries of construction materials to project sites would add to traffic noise in the area. The size of the workforce would vary throughout the construction schedule based on the types of construction activities. Temporary increases in traffic noise would vary based on the travel routes of construction workers and delivery vehicles. It is likely that most construction-related vehicles would access project sites from the I-405 or Santa Monica Boulevard. Traffic density on both roads is high especially during daytime hours on weekdays. As such, the increase in traffic from construction-related vehicles would not likely increase ambient noise levels by more than 3 dBA, which would not be perceptible to the human ear and therefore would not exceed typical noise thresholds (Caltrans, 2013).

Renovation activities are not expected to produce any ground vibrations. However, if such vibrations are produced, minor impacts would be noticeable to employees, residents, and visitors on the WLA Campus; impacts would be short-term and limited to daytime hours only.

Renovation-related noise impacts are expected to be short-term but could potentially approach the EPA-guideline noise level standards depending on the receptor and proximity to the project location. However, noise impacts are likely to be less than significant with the application of mitigation measures. Any renovation-related vibration impacts, although not expected, would also be minor and short-term.

### 4.7.3.2 Impacts from Operations

The planned and future use of the renovated buildings would not result in a significant increase in sound levels from existing background levels. Most of the buildings on the South Campus are health care facilities and would return to the same use once renovated. Buildings on the North Campus that are vacant or used for a variety of administrative and health care purposes would be repurposed for residential

uses and other support functions. Traffic-related noise levels may increase near the renovation locations but would not be expected to increase disproportionately from current levels typical of urban settings. Routine operation of these buildings would not be expected to increase vibration level. Therefore, operational noise and vibration impacts are not expected above current levels.

## 4.7.4 Alternative B (Existing Building Demolition)

Alternative B involves demolition of 33 buildings throughout the WLA Campus. Prior to demolition activities, existing tenants and services would be relocated to other buildings on the WLA Campus. Parking areas, athletic fields, and vacant land are not proposed to be altered under Alternative B.

## 4.7.4.1 Impacts from Construction

During demolition activities for Alternative B, construction noise would be perceivable at multiple locations on the WLA Campus and off site, depending on the building undergoing demolition. Various types of construction equipment would be used for demolition, including backhoes, concrete saws, bulldozers, front end loaders, and tractors. Demolition activities would be accompanied by a conservatively predicted noise level increase to approximately 76.0 dBA at 100 feet from the source (Figure 4.7-3) and 62.0 dBA at 500 feet from the source (Figure 4.7-4). Similar to Alternative A, the predicted noise levels represent "worst case" scenario noise levels as the RCNM assumes all demolition equipment is used concurrently.

Similar to Alternative A, the perceived increase in noise would depend on the receptor and site-specific conditions. Sound levels in the immediate vicinity of the demolition activities averaged over an entire day would approach or exceed the EPA and/or Los Angeles County recommended noise standard for outdoor activity and would be noticeable to employees and residents on the WLA Campus and visitors. However, the increase in noise levels near the demolition activities is expected to be short-term and consistent with typical urban construction projects. As the distance from the source is increased, the demolition noise levels would continue to decrease as they approach existing background sound levels. However, perceived increase in noise is also dependent on the receptor. Veterans with combat experience, PTSD, or other mental health disorders could mistake loud sounds from the demolition activities as explosions. Thus, impacts to those sensitive populations would be considered moderate. Implementation of Mitigation Measure NOI-1, including scheduling demolition activities for normal daytime hours and providing noise shielding, would help to mitigate noise impacts and reduce noise.

The daily commute of construction workers and deliveries of construction materials to project sites would add to traffic noise in the area. The size of the workforce would vary throughout the construction schedule based on the types of construction activities. Temporary increases in traffic noise would vary based on the travel routes of construction workers and delivery vehicles. It is likely that most construction-related vehicles would access project sites from the I-405 or Santa Monica Boulevard. Traffic density on both roads is high especially during daytime hours on weekdays. As such, the increase in traffic from construction-related vehicles would not likely increase ambient noise levels by more than 3 dBA, which would not be perceptible to the human ear and therefore would not exceed typical noise thresholds (Caltrans, 2013).

Depending on the specific demolition equipment used and operations involved, short-term increases in ground vibration may result. The increase in vibration levels near the demolition activities would be short-term but noticeable to employees and residents on the WLA Campus and visitors. Activities would be limited to daytime hours and would be anticipated to be a minor disturbance to neighboring receptors.

Demolition-related noise impacts are expected to be short-term but potentially significant and unavoidable depending on the receptor and proximity to the building being demolished (Table 4.7-2). Vibration impacts from demolition-related activities would also be minor to moderate in magnitude depending on the receptor and proximity to the building location.

## 4.7.4.2 Impacts from Operations

Alternative B involves demolition of WLA Campus buildings without replacing the buildings. Since there is no future use planned, sounds levels are expected to be the same as existing background levels or even reduced resulting from lower level of vehicular traffic. Traffic-related noise levels are not expected to increase near the demolition locations. Routine operation would not be expected to increase ground vibration levels. Therefore, operational noise and vibration impacts are not expected.

## 4.7.5 Alternative C (Demolition and New Construction)

Alternative C involves full demolition of 33 buildings throughout the WLA Campus (as described in Alternative B) with new construction of buildings to support future use activities. Prior to demolition activities, existing tenants and services would be relocated to other buildings on the WLA Campus. Demolished buildings would be replaced with new buildings within the same project footprint. In addition, new construction is proposed on several existing parking areas, athletic fields, and vacant land.

### 4.7.5.1 Impacts from Construction

Noise from construction activities for Alternative C would be perceivable at multiple locations on the WLA Campus and off-site, depending on the project location. Various types of construction equipment could be used for demolition and construction, including but not limited to backhoes, excavators, concrete mixer trucks, bulldozers, front end loaders, graders, flatbed trucks, concrete pump trucks, concrete saws, pickup trucks, scrapers, generators, compactors (ground and air), man lift, crane, pneumatic tools, dump trucks, pumps, and warning horns.

As in Alternative B, demolition activities would be accompanied by a conservatively predicted short-term noise level increase to approximately 76.0 dBA at 100 feet from the source (Figure 4.7-3) and 62.0 dBA at 500 feet from the source (Figure 4.7-4). Construction activities would be accompanied by a conservatively predicted short-term noise level increase to approximately 81.0 dBA at 100 feet from the source (Figure 4.7-5) and 67.0 dBA at 500 feet from the source (Figure 4.7-6). The predicted noise levels represent "worst case" scenario noise levels as the RCNM assumes all demolition and construction equipment is used concurrently.

Sound levels in the immediate vicinity of the demolition and construction activities averaged over an entire day would approach or exceed the EPA and/or Los Angeles County recommended noise standard for outdoor activity and would be noticeable to employees and residents on the WLA Campus and visitors. However, the increase in noise levels near the demolition and construction activities are

expected to be short-term and consistent with typical urban construction projects. As the distance from the source increases, the noise levels attributable to demolition and construction activities continue to decrease as they approach existing background sound levels.

The perceived impacts from the increase in noise levels would depend on the receptor and site-specific conditions (including sound shielding). Construction for many of the individual projects would last less than 30 months, and the construction noise would be reduced when construction activities move to another project farther away and are shielded by existing on-site building structures. However, perceived increase in noise is also dependent on the receptor. Veterans with combat experience, PTSD, or other mental health disorders could mistake loud sounds from the construction or demolition activities as explosions or gun fire. Thus, impacts to those populations would be considered moderate to major. Mitigation Measure NOI-1, including scheduling demolition activities for normal daytime hours and providing noise shielding, would help to mitigate noise impacts.

The daily commute of construction workers and deliveries of construction materials to project sites would add to traffic noise in the area. The size of the workforce would vary throughout the construction schedule based on the types of construction activites. Temporary increases in traffic noise would vary in location based on the travel routes of construction workers and delivery vehicles. It is likely that most construction-related vehicles would access project sites from the I-405 or Santa Monica Boulevard. Traffic density on both roads is high especially during daytime hours on weekdays. As such, the increase in traffic from construction-related vehicles would not likely increase ambient noise levels by more than 3 dBA, which would not be perceptible to the human ear and therefore would not exceed typical noise thresholds (Caltrans, 2013).

Demolition and construction activities under Alternative C would include vibration-producing activities (such as excavation, grading, basement excavation, and clearing). Depending on the specific construction equipment used and operations involved, short-term increases in ground vibration may result. The increase in vibration levels near the demolition and construction activities would be short-term but noticeable to employees and residents on the WLA Campus and visitors. Demolition and construction activities would be limited to daytime hours and would be anticipated to be a minor disturbance to neighboring receptors.

Under Alternative C, construction-related noise impacts would be short-term but potentially significant and unavoidable depending on the receptor and proximity to the project location (Table 4.7-2). Construction-related vibration impacts for Alternative C would also be short-term and minor to moderate in magnitude depending on the receptor and proximity to the project location.

### 4.7.5.2 Impacts from Operations

Alternative C involves demolition and reconstruction of WLA Campus buildings and parking lots. The future use of WLA Campus buildings as a residential space, health care facilities, research facilities, town center, multi-use facilities, or parking would not significantly increase sound levels from existing background levels. New buildings could be designed to position and incorporate sound shielding for stationary noise-generating equipment (such as refrigeration units). Traffic-related noise levels may increase near the new building locations but are not expected to increase over standard urban setting

background levels. Routine operation would not be expected to increase vibration levels. Therefore, operational noise vibration impacts are not expected above current conditions.

## 4.7.6 Alternative D (Renovation, Demolition, and New Construction)

Under Alternative D, there would be a combination of renovations of existing buildings on the WLA Campus, demolition of existing buildings with no replacement construction, demolition and construction of new buildings within existing building site areas, or construction of new buildings on existing parking areas, athletic fields, and vacant lands on the WLA Campus. Prior to demolition and renovation activities, existing tenants and services would be relocated to other buildings on the WLA Campus.

## **4.7.6.1** Impacts from Construction

Alternative D would result in similar potential impacts noted in Alternatives A through C. Renovation activities would be accompanied by a conservatively predicted short-term noise level increase to approximately 65.6 dBA at 100 feet from the source and 51.7 dBA at 500 feet from the source. Demolition activities would be accompanied by a conservatively predicted short-term noise level increase to approximately 76.0 dBA at 100 feet from the source (Figure 4.7-3) and 62.0 dBA at 500 feet from the source (Figure 4.7-4). New construction activities would be accompanied by a conservatively predicted short-term noise level increase to approximately 81.0 dBA at 100 feet from the source (Figure 4.7-5) and 67.0 dBA at 500 feet from the source (Figure 4.7-6). It is important to note that the predicted noise levels represent "worst case" scenario noise levels as the RCNM assumes all equipment is used concurrently.

Sound levels in the immediate vicinity of Alternative D activities averaged over an entire day, particularly demolition and construction, would approach or exceed the EPA and/or Los Angeles County recommended noise standard for outdoor activity and would be noticeable to employees and residents on the WLA Campus and visitors. However, the increase in noise levels near the demolition and construction activities are expected to be short-term and consistent with typical urban construction projects. As the distance from the source increases, the noise levels attributable to demolition and construction activities continue to decrease as they approach existing background sound levels.

The perceived increase in noise levels would depend on the receptor and site-specific conditions (including sound shielding). However, the predicted increases in noise levels would be consistent with typical urban construction projects. Noise impacts at individual sensitive receptors would last for a shorter time. Construction activities for many of the individual projects would last less than 30 months, and construction noise would be reduced when construction activities move to another project farther away and are shielded by existing on-site building structures. Demolition and construction activities under Alternative D would be scheduled for normal daytime business hours. In addition, proper equipment maintenance and noise shielding would help to minimize noise level increases from construction activities (Mitigation Measure NOI-1).

The daily commute of construction workers and deliveries of construction materials to project sites would add to traffic noise in the area. The size of the workforce would vary throughout the construction schedule based on the types of construction activites. Temporary increases in traffic noise would vary in location based on the travel routes of construction workers and delivery vehicles. It is likely that most construction-related vehicles would access project sites from the I-405 or Santa Monica Boulevard.

Traffic density on both roads is high especially during daytime hours on weekdays. As such, the increase in traffic from construction and demolition-related vehicles would not likely increase ambient noise levels by more than 3 dBA, which would not be perceptible to the human ear and therefore would not exceed typical noise thresholds (Caltrans, 2013).

Depending on the specific equipment used and operations involved, short-term increases in ground vibration may result. The increase in vibration levels near the activities would be short-term but noticeable to employees and residents on the WLA Campus and visitors. Activities would be limited to daytime hours and would be anticipated to be a minor disturbance to neighboring receptors.

Under Alternative D, construction-related noise impacts would be short-term but potentially significant and unavoidable depending on the receptor and proximity to the project location (Table 4.7-2). Construction-related vibration impacts for Alternative D would also be short-term and minor to moderate in magnitude depending on the receptor and proximity to the project location.

## 4.7.6.2 Impacts from Operations

Alternative D involves interior renovations, demolition, and/or construction activities to WLA Campus buildings. The noise impacts of operating these buildings under Alternative D would be similar to those described for Alternative C. The planned and future use of the renovated buildings in this group would not result in significant increase in sound levels from existing background levels. Routine operation of any newly constructed building would not significantly increase sound levels from existing background levels. New buildings could be designed to position and incorporate sound shielding for stationary noise-generating equipment (such as refrigeration units). Traffic-related noise levels may increase near the new building locations but are not expected to increase over standard urban setting background levels. Operational noise impacts would be minor, and operational vibration impacts are not expected.

### 4.7.7 Alternative E (No Action)

Under Alternative E, the WLA Campus would remain the same as present day. No construction activities tied to the Proposed Action would occur on the WLA Campus.

#### 4.7.7.1 Impacts from Construction

Under Alternative E, there would be no renovations, retrofits, new construction, or demolition to existing buildings on the WLA Campus. Therefore, no construction-related noise and vibration impacts would occur as a result of Alternative E.

### 4.7.7.2 Impacts from Operations

Under Alternative E, there would be no change in noise on the WLA Campus as the existing buildings and operations would remain the same as present day. No new operational changes of existing uses would occur. Therefore, no operational noise or vibration impacts on the WLA Campus would occur.

#### 4.8 Land Use

This section examines each of the alternatives with respect to the existing physical and regulatory setting related to land use and planning.

#### 4.8.1 Evaluation Criteria

The evaluation of land use impacts focuses on current land use plans and zoning. Based upon the Supremacy Clause (Article VI) of the U.S. Constitution regarding federal agencies, VA is not subject to state or local regulations absent a clear statutory waiver to the contrary. Although local governments cannot regulate or permit activities of the Federal Government on federally owned land, federal agencies must consider local zoning laws for new building construction (40 U.S.C. § 619(b)).

General compatibility with existing and future land use designations and zoning ordinances is the basis to indicate the potential for land use impacts. Adverse land use impacts may occur if the proposed renovation and redevelopment would:

- Be inconsistent with current or planned future land uses and community goals for land use;
- Alter the character and use of the land in relation to surrounding uses; or
- Conflict with zoning designations or ordinances.

# 4.8.2 Alternative A (Existing Building Renovation)

Alternative A would renovate and retrofit 33 existing buildings totaling approximately 1.75 million GSF, adding 821 new housing units for Veterans to the North Campus. No open space, recreational areas, or parking would be created or materially modified.

### 4.8.2.1 Impacts from Construction

Alternative A renovation activities could have temporary, minor impacts on adjacent land uses because renovation activities could generate dust, noise, additional traffic, and other disturbances. However, those impacts would be addressed through implementation of appropriate mitigation measures identified in Chapter 6, Mitigation, Monitoring, Minimization, and Best Practices. Existing departmental functions would need to be temporarily relocated to existing buildings and/or temporary modular buildings located within the WLA Campus. Six buildings to be renovated are currently vacant, and the remainder maintain high levels of occupancy. Consequently, 26 buildings containing 1.5 million ft<sup>2</sup> would be involved in the temporary relocation program.

## 4.8.2.2 Impacts from Operations

The proposed building renovations contemplated under Alternative A are compatible with existing land uses within the WLA Campus and the surrounding areas. Upon completion of Alternative A, land use at the WLA Campus would not be substantially altered since medical, research, and housing functions supported by the renovated buildings already occur on the campus. Alternative A would result in the addition of 821 units of supportive housing for homeless Veterans, which is a land use already present on

the WLA Campus. The operation of Alternative A projects would therefore not conflict with federal or local land use plans, policies, or ordinances, and as a result, no impacts would occur.

## 4.8.3 Alternative B (Existing Building Demolition)

Alternative B includes the complete demolition of all 33 buildings with no replacement of the demolished buildings and the permanent relocation of any existing tenants and services to other existing buildings located within the WLA Campus. The site area within the existing building site areas and immediately adjacent areas would be regraded and returned to naturalized, open areas.

## 4.8.3.1 Impact from Construction

Implementation of demolition activities under Alternative B could have temporary, minor impacts on adjacent land uses because demolition activities could generate dust, noise, additional traffic, and other disturbances. However, those impacts would be addressed implementation of appropriate mitigation measures identified in Chapter 6, Mitigation, Monitoring, Minimization, and Best Practices. Prior to demolition, VA would need to permanently relocate staff and functions to other buildings on campus. Six buildings to be demolished are currently vacant, and the remainder maintain high levels of occupancy. Consequently, 26 buildings containing 1.5 million ft² would be involved in the permanent relocation program.

## 4.8.3.2 Impacts from Operations

Alternative B involves the removal of existing land uses within 33 buildings totaling approximately 1.75 million ft<sup>2</sup> that are already in place within the WLA Campus. Upon completion of the demolition, existing land uses at the WLA Campus would be altered due to the significant reduction in the number of buildings and building area. Additionally, the creation of a minimum of approximately 60 acres of additional open space is a material alteration.

However, the proposed modifications contemplated under Alternative B are compatible with existing land uses within the WLA Campus and the surrounding areas. Therefore, the operation of Alternative B projects would not conflict with federal or local land use plans, policies, or ordinances, and as a result, no significant impacts would occur.

## 4.8.4 Alternative C (Demolition and New Construction)

Alternative C includes the demolition of 33 buildings comprising approximately 1.75 million ft<sup>2</sup>, and the new construction of up to 3.2 million ft<sup>2</sup> of development. Replacement facilities would be constructed for the health care buildings on the South Campus and existing buildings on the North Campus, and additional construction is projected for new Veterans homeless housing and a town center. Alternative C would add 1,622 units of supportive housing to the WLA Campus.

#### 4.8.4.1 Impacts from Construction

Construction and demolition activities associated with Alternative C could have temporary, minor impacts on adjacent land uses because these activities could generate dust, noise, additional traffic, and other disturbances. However, those impacts would be addressed implementation of appropriate

mitigation measures identified in Chapter 6, Mitigation, Monitoring, Minimization, and Best Practices. As buildings are prepared for demolition, some temporary relocation of staff and functions may need to take place. However, the new construction buildings would provide opportunities for strategic phasing to minimize the need for temporary relocations.

## 4.8.4.2 Impacts from Operations

Alternative C involves the continuation and expansion of existing land uses already in place within the WLA Campus. Upon completion, land use at the WLA Campus would not be substantially altered since hospital, medical services, offices, research, community living centers, supportive housing, logistics, facilities management and administrative functions are already present and operational.

The South Campus is being redeveloped in a manner that retains its function as a medical center. Due to the scale and complexity for the construction effort, and need to maintain existing hospital functions during construction, VA proposes to reconstruct the medical center buildings in a different building configuration with a moderate increase to overall building areas. While VA is not subject to local zoning requirements, the South Campus is zoned as "IT-Institutional," and future use under Alternative C would be a continuation of existing uses that are compatible with existing zoning.

The majority of existing buildings located within the North Campus would be reconstructed within the existing building site areas at similar square footage (direct replacement). The current uses of the buildings in the North Campus are a combination of administrative, health care, supportive housing and other operational functions. The replacement building would serve those same functions with an emphasis on supportive housing. Additionally, new construction will occur on existing vacant land for new homeless Veterans supportive housing (approximately 680,850 ft²) and a new Town Center (up to 450,000 ft²).

The ultimate location, configuration, and number of buildings proposed for new construction on the North Campus has yet to be determined. The North Campus is zoned as "O-S – Open Space." While VA is not subject to local zoning requirements, adherence to Mitigation Measure HIST-1: *Apply SOI Standards and CHRP*, particularly SOI Standards 9 and 10 for new construction contained in that mitigation measure would make the height, massing, and density to the new buildings compatible to their surrounding environment. For development on the North Campus conducted by third-party developers, development would be subject to zoning restrictions, including building height allowances. Third-party developers would follow the appropriate zoning process for any new construction and would need to adhere to existing restrictions or would obtain variances if needed.

The proposed modifications contemplated under Alternative C are compatible with existing land uses within the WLA Campus and the surrounding areas. Therefore, the operation of Alternative C projects would not conflict with federal or local land use plans, policies, or ordinances, and as a result, no impacts would occur.

## 4.8.5 Alternative D (Renovation, Demolition, and New Construction)

Alternative D is a combination approach, incorporating both existing building renovation and demolition and new construction. Some of the building slated for demolition and replacement under Alternative C

would instead be renovated but would be projected to have the same future uses. The resulting level of new development on open or vacant land is expected to be similar to that of Alternative C and would serve the same projected uses. Up to 1,622 new units of supportive housing for homeless Veterans are projected under this alternative.

# **4.8.5.1 Impacts from Construction**

Impacts from construction to land uses inside the WLA Campus and the surrounding areas is expected to be similar to the impacts described under Alternative C.

# 4.8.5.2 Impacts from Operations

Impacts from construction to land uses inside the WLA Campus and the surrounding areas is expected to be similar to the impacts described under Alternative C. The proposed modifications contemplated under Alternative D are compatible with existing land uses within the WLA Campus and the surrounding areas. Therefore, the operation of Alternative D projects would not conflict with federal or local land use plans, policies, or ordinances, and as a result, no impacts would occur.

## 4.8.6 Alternative E (No Action)

Under Alternative E, the WLA Campus would remain the same as present day. No construction activities tied to the Proposed Action would occur on the WLA Campus.

## 4.8.6.1 Impacts from Construction

Under Alternative E, no construction, renovation, or demolition activities would occur. Consequently, no construction-related land use impacts would occur.

# 4.8.6.2 Impacts from Operations

Since Alternative E does not contemplate any construction activities, there would be no change in land uses, and no new land uses or operational changes of existing uses would occur. Therefore, no impacts within the WLA Campus or in surrounding land uses would occur.

As noted above, no federal land use plans or policies currently apply to the WLA Campus. Therefore, the continued operation of the existing campus under its current configuration (Alternative E) would not conflict with federal or local land use plans, policies, or ordinances, and as a result, no impacts would occur.

# 4.9 Floodplains, Wetlands, and Coastal Zones

This section describes potential impacts to floodplains, wetlands, and coastal zones associated with the proposed realignment and development at the WLA Campus. Because floodplains do not occur within the WLA Campus, no impacts would occur to this resource and no further discussion of impacts to floodplains is included in this section. Likewise, because the WLA Campus is not located within the California coastal zone and given the limited streamflow or hydrology present on the WLA Campus, effects to the coastal zone would not occur. Therefore, no further discussion of impacts to the coastal

zone is included in this section. There is a small wetland area on the northwestern side of the WLA Campus within the fenced open space south of Veterans Barrington Park (Figure 3.9-1). This area is not included in any Proposed Action activities.

#### 4.9.1 Evaluation Criteria

An alternative would have a major impact on wetlands if it:

- Modifies or degrades the water, vegetation, or soils within or adjacent to a wetland area;
- Degrades water quality entering the wetland area through chemical or other contaminants; or
- Causes runoff or soil erosion within, surrounding, or entering the wetland area.

### 4.9.2 Assessment Methods

The evaluation criteria were reviewed to determine potential impact significance using a qualitative approach. Specifically, potential wetland impacts associated with each alternative are discussed, as well as conformance with applicable regulatory standards.

## 4.9.3 Alternatives A through D

## 4.9.3.1 Impacts from Construction

Specific wetland-related impacts include ground disturbance leading to soil runoff from any activities adjacent to the wetland area. The closest buildings proposed for renovation, demolition, or construction activities are Buildings 156, 157, and 258, located approximately 0.10 to 0.12 miles from the wetland area. The open space areas proposed for new construction activities are located approximately 0.12 to 0.13 miles from the wetland on the WLA Campus. Topography at the existing WLA Campus would not be substantially altered.

Erosion potential would increase in areas where vegetative cover would be removed. If soil erosion were to occur near the wetland, impacts such as sediment buildup and fill of the wetland could threaten the wetland ecosystem and structure. However, the level of runoff would have to be unusually heavy to cause these impacts, such as from a major storm and flood event. Reestablishment of vegetation in areas previously occupied by WLA Campus buildings would serve as an effective measure for erosion control through limiting erosion from rainfall and by improving soil cohesion and infiltration capacity (Duran & Rodriguez, 2009). Mitigation measures, such as silt fencing or straw wattles surrounding a demolition project area would prevent or reduce soil runoff, even during heavy rains (see Chapter 6, Mitigation, Monitoring, Minimization, and Best Practices). Impacts on wetlands are not expected.

### 4.9.3.2 Impacts from Operations

The planned and future use of the WLA Campus buildings would result in no changes pertaining to wetlands. No impacts to wetlands from operations are anticipated.

# 4.9.4 Alternative E (No Action)

Under Alternative E, the WLA Campus would remain the same as present day. No construction activities tied to the Proposed Action would occur on the WLA Campus.

## 4.9.4.1 Impacts from Construction

Under Alternative E, there would be no renovations, retrofits, new construction, or demolition to existing buildings on the WLA Campus. Therefore, no construction-related impacts to wetlands and resources that could affect wetlands would occur as a result of Alternative E.

# 4.9.4.2 Impacts from Operations

Under Alternative E, there would be no change in wetlands on the WLA Campus as the existing buildings and operations would remain the same as present day. No new operational changes of existing uses would occur. The continued operation of the existing WLA Campus under Alternative E would not result in changes or impacts to the arroyo and wetland area. Therefore, no impacts related to wetlands would occur.

### 4.10 Socioeconomics

This section describes the socioeconomic impacts of the Proposed Action in terms of changes to economic activity and social characteristics of the area.

#### 4.10.1 Evaluation Criteria

Changes in economic conditions and social characteristics can result in either adverse or beneficial impacts. Jobs, income, and other economic activity generated or supported by a proposed action would generally be considered beneficial impacts. An action may also have positive social effects by increasing services available to a population or improving opportunities for social interaction. However, it is possible for an action to generate more economic activity than can be absorbed by a local economy, potentially causing adverse effects. For instance, if an action generates a large number of jobs relative to the existing labor force, it may result in an influx of people to fill the available positions. This may stress the local housing market (e.g., via reduced housing availability or increased rents and prices), increase traffic, strain the capacity of local schools, or have other adverse effects on local public services and social systems. An action may also disrupt local economic and social systems by displacing businesses or altering a neighborhood in a way that requires residents or visitors to significantly change their patterns of movement and social interaction. An alternative is considered to result in an adverse effect related to socioeconomics if it would:

- Affect economic characteristics (e.g., employment, income) in a way that negatively alters local economies on a substantial basis;
- Alter population growth or demographic patterns in ways that change the overall character of communities;
- Change housing characteristics of a community (e.g., types of units, occupancy, housing values)
  or residential development patterns in a substantial way or generates housing demand that
  exceeds availability;

- Permanently displaces resident populations or businesses; or
- Permanently disrupts established social patterns of a community.

#### 4.10.2 Assessment Methods

This PEIS addresses socioeconomic impacts quantitatively and qualitatively. The basic approach for assessing each alternative was to:

- 1) Quantify the economic impacts (e.g., jobs, income) that would result. The quantitative economic impact analysis methodology is described further in Section 4.10.2.1, Economic Impact Analysis Methodology below.
- 2) Determine how the estimated employment changes would affect the local population and assess the potential and nature of any associated impacts to housing or other socioeconomic conditions. These assessments use labor force data and other socioeconomic indicators to put into context the employment and population changes that could result from an alternative.
- 3) Qualitatively consider additional potential impacts resulting from the specific proposed actions of an alternative. For instance, the analysis considers how demolition of many of the facilities under Alternative B would affect living conditions and services for Veterans who live on or visit the WLA Campus, and how the construction and eventual operation of additional facilities under other alternatives would affect those Veterans and surrounding communities.

## 4.10.2.1 Economic Impact Analysis Methodology

Economic impacts are changes in economic activity as measured by indicators such as employment (jobs), labor income, value added, and economic output. To assess economic impacts, an input-output model (IMPLAN Pro® - version 3.1) was used³¹ to estimate total economic impacts that would occur within Los Angeles County as a result of proposed construction and operations at the WLA Campus under each alternative. In addition to quantifying the impacts in terms of employment (jobs), labor income, value added, and economic output, the IMPLAN model also estimated which industries within the Los Angeles County economy would be most affected. The following material explains key economic modeling and impact terms and concepts and describes general steps and assumptions of the impact modeling methodology. Modeling parameters and assumptions specific to each alternative are described within each alternative.

Input-output modeling quantifies the flow of goods and services through an economy. When a household or business purchases a product or service, the business (producer) that provides the product or service makes purchases from other businesses (intermediate inputs) and pays employee wages and taxes and earns a profit, all to support its production activities. Those additional businesses also make purchases and pay their employee wages, taxes, and other expenses. At each stage, some of the purchases are made within the local economy (e.g., Los Angeles County) and some are made with producers outside the local economy (imports). An input-output model tracks the rounds of purchases as well as taxes, profits, and payments to employees within the local economy and the flow of money outside the local economy

<sup>31</sup> The model used is based on 2016 data. All dollar figures in this PEIS are adjusted to 2018 dollars.

through imports and other "leakage." Due to leakage, after multiple rounds of inter-industry purchases and payments to labor, no additional local purchases or payments occur.

Based on detailed information on leakage rates and the relationships between every industry in the local economy and between industries and employees (households), IMPLAN quantifies the total economic impacts on a local economy resulting from the initial direct impact of spending in one or more specific industries; for instance, payments to the construction industry to build housing. The estimated total economic impacts consist of direct impacts, indirect impacts (e.g., local purchases of intermediate inputs by the construction industry from other industries, and in turn by those industries from other local industries), and induced impacts (e.g., local purchases of goods and services by the employees of the construction industry and other industries). The IMPLAN model quantifies the following economic indicators:

- Employment (Jobs). In IMPLAN, a job is the annual average of monthly jobs in an establishment or industry. Thus, a job may represent one job for 12 months, two jobs for six months, and so on. In addition, a job in IMPLAN may be full- or part-time.
- **Labor Income.** Labor income includes all forms of employment income, including employee compensation (wages and benefits) and proprietor income.
- **Economic Output.** Economic output is the total value of production. This typically represents total sales or receipts (gross revenue) of an establishment or industry.
- Value Added. Value added is the difference between an establishment's or industry's total economic output and the cost of its intermediate inputs. It equals gross output (sales or receipts and other operating income, plus inventory change) minus intermediate inputs (consumption of goods and services purchased from other industries or imported). The difference, value added, consists of compensation of employees, taxes on production and imports less subsidies, and gross operating surplus.

To run the IMPLAN model, the analyst first estimates the direct economic impacts. For this PEIS, the direct impacts for the construction phase were the estimated local expenditures on construction under each alternative. For the operations phase, the direct impacts for Alternative E were based on VA operational budget expenditure data; these figures were adjusted for Alternatives A through C based on the types of operational changes that would be likely once construction for each alternative is completed. Second, the analyst allocates the direct impacts (local expenditures) to the directly affected industry sectors in the IMPLAN model. For example, construction impacts are allocated to specific construction sectors and to the architectural and engineering services sector.

For potential construction impacts, key data sources and assumptions were as follows:

• For proposed new construction activities on the South Campus, cost estimates were obtained from the Sequencing Study (Leo A. Daly, 2016). For residential units, costs per GSF were based on City of Los Angeles Housing and Community Investment Development estimates for new low-income housing (Concourse Federal Group, 2018). For all other projects, costs per GSF based on U.S. Department of Defense (DoD) Facilities Pricing Guide (U.S. Department of Defense, 2017) were used, with adjustments for the Los Angeles market.

- Renovation costs for proposed residential units were based on estimates previously prepared for VA residential renovations on the WLA Campus. The cost per ft² was an average based on the estimated costs to rehabilitate Building 209 (Cumming Clarke, 2012), Building 205 (Concourse Federal Group, 2018), and Building 208 (Concourse Federal Group, 2018). All other renovation costs were assumed to equal 67 percent of the cost per GSF for new construction as defined in the *DoD Facilities Pricing Guide*. This percentage of new construction cost was selected as a fiscally reasonable choice based on federal law (U.S. Congress, 2018) that discourages renovation projects exceeding 75 percent of facility replacement (new construction) value.
- Demolition costs were mostly estimated at \$28 per GSF. This follows a \$25 per GSF DoD rule
  of thumb for demolition and the \$25 per GSF estimate for demolition for various buildings from
  the Sequencing Study (Leo A. Daly, 2016). An additional value of \$3 per GSF was added for site
  finishing following demolition (e.g., grading and installation of landscaping). In two cases,
  different values from the Sequencing Study estimates were used due to the nature of the specific
  buildings involved.
- All costs were in or adjusted to 2018 dollars.
- Costs were divided into four components based on percentages from the *DoD Facilities Pricing Guide*: planning and design (P&D), 13.0 percent for medical facilities, 9.0 percent for all others); supervision, inspection, and overhead (SIOH), 5.7 percent); contingency (5.0 percent); and basic construction costs (67.3 percent).
- Costs were allocated to years from 2019 through 2029 with equal allocation of costs by year for each project with a multi-year construction schedule.
- Economic impacts were estimated for the average annual costs across the 2019-2029 period and for the year with the largest construction costs (peak construction year).
- Construction costs were allocated to the IMPLAN model industrial sectors on this basis:
  - Basic construction costs and contingency costs were allocated to five different construction sectors based on building types, and all costs were assumed to take place locally (within Los Angeles County).
  - o SIOH was allocated to the architectural, engineering, and related services sector and these services were assumed to be performed locally.
  - P&D was not included in the IMPLAN model based on the reasonable likelihood these services could be awarded to a non-local firm.

The following potential construction-related costs associated with one or more alternatives were not included in the economic impact analysis due to a lack of data and/or inherent uncertainty. These construction-related activities would generate additional economic activity above and beyond the economic impacts reported below.

- Demolition of and replacement or major upgrades to utility systems on the WLA Campus.
- Demolition of and replacement of pavement.

- Demolition of and replacement of PV panels.
- Implementation of projects included in the Sequencing Study (Leo A. Daly, 2016) but not included in the WLA Campus Master Project List.
- Temporary relocations of WLA Campus residents to accommodate construction (small expense relative to other construction expenses).
- Acquisition of new furnishings and equipment for renovated or newly constructed buildings
  (generally a small expense relative to other construction expenses but could be a considerable
  amount for a new medical center under Alternative C).

For potential operations impacts, the analysis began with an estimated FY 2017 budget for all WLA Campus operations (Lee & Thomas, 2018). The estimated FY 2017 WLA Campus budget, adjusted to 2018 dollars, provided the baseline budget for the analysis and represented total operational costs under Alternative E.<sup>32</sup>

To estimate the economic impacts of WLA Campus operations once each alternative is fully operational, differences in total operational budgets between each alternative and Alternative E were estimated. The adjusted budgets were run through the IMPLAN model to estimate the total economic impacts of WLA Campus operations under each alternative. The differences between the results for each alternative and the results for Alternative E represent the net economic impacts that would be attributable to the changes specific to each alternative.

Estimation of the budget implications of each alternative focused on identifying large implications. A few smaller implications were also addressed because the available data allowed their consideration. These included potential changes to utility costs and to WLA payments to non-VA entities providing services to homeless Veterans. Some budget implications could not be assessed given the limited granularity of the budget data; however, any additional budget implications not considered in the PEIS would be small relative to the \$824.8 million (2018 dollars) baseline WLA Campus budget. The operations cost change estimates described for each alternative and used in the economic impact analysis were based on professional judgment. VA has not developed detailed operational budgets for each alternative. However, VA believes that the estimates are reasonable approximations that are sufficient for NEPA purposes.

The operational impact analysis did not address potential economic impacts of personal income and spending of Veteran residents on the WLA Campus. The number of residents would increase under some of the proposed alternatives. However, the net economic impacts of spending by these Veteran residents would be low for two reasons. First, increased housing on the WLA Campus would be targeted to homeless Veterans. A very high proportion of these Veterans would already be located within Los Angeles County, so there would be no net impact on the Los Angeles County economy from these Veterans' existing incomes. Second, most such Veterans would have very low incomes at the time they move onto the WLA Campus; this is one key reason many of these Veterans are homeless. Their incomes

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<sup>&</sup>lt;sup>32</sup> Future WLA Campus operational costs would be slightly higher than the FY 2017 baseline budget under all alternatives due to four EUL renovations (one recently completed and three anticipated), which will generate 208 residential units. Since these costs would occur under all alternatives, they are not germane to comparison of the alternatives, and therefore the baseline budget was not adjusted for these costs. The four EUL buildings are considered in the cumulative economic impacts analysis found in Chapter 5.

may increase once they move onto the WLA Campus because increased residential stability and health care services may help them maintain a job or obtain a better job. Job training obtained on the WLA Campus may also help these Veterans improve their incomes. However, even with these changes, in most cases the incomes of these Veterans probably would remain relatively low compared to the general population, and the increased number of Veterans with increased incomes would still have a very low impact on the local economy. Finally, it is not possible with existing information to reliably estimate income increases of Veterans who move onto the WLA Campus.

## 4.10.3 Alternative A (Existing Building Renovations)

Alternative A involves renovations to 33 buildings on the WLA Campus. Approximately 1.75 million ft<sup>2</sup> of buildings would be renovated. No buildings would be demolished or involve extensive exterior construction activities. During renovations, existing tenants and services would be relocated to other buildings on the WLA Campus.

## 4.10.3.1 Impacts from Construction

Construction phase expenditures for Alternative A from 2019 through 2029, in constant 2018 dollars, would total an estimated \$908.2 million. The average expenditures per year would be \$82.6 million. Expenditures in the peak construction year of 2027 based on the current schedule would be \$189.6 million. These figures include P&D, which was assumed to be a non-local expenditure and was not run through the IMPLAN model. All other construction expenditures were assumed to occur within Los Angeles County and were included in the economic impact analysis.

Table 4.10-1 presents the annual average economic impacts to Los Angeles County that would result from Alternative A. Across the 2019-2029 construction period, Alternative A would support an annual average of 776 total jobs, \$46.8 million in labor income, and \$125.7 million in total economic output.

**Table 4.10-1. Annual Average Construction Phase Economic Impacts for Alternative A** 

Impact Type	Employment (Jobs)	Labor Income (\$ Million)	Value Added (\$ Million)	Economic Output (\$ Million)
Direct Impact	458	\$28.4	\$37.5	\$76.0
Indirect Impact	152	\$9.5	\$14.9	\$24.5
Induced Impact	166	\$8.9	\$15.9	\$25.2
Total Impact	776	\$46.8	\$68.3	\$125.7

Note: All dollar values are expressed in 2018 dollars.

Source: VA analysis using construction cost estimates and IMPLAN economic impact analysis model.

Jobs, labor income, value added, and economic output supported by renovation activities under Alternative A would be beneficial to the Los Angeles County economy. Given that, as of 2016, the Los Angeles County economy generated economic output totaling over \$1.1 trillion and supported nearly 6.3 million jobs (IMPLAN, 2017), the beneficial impact of construction under Alternative A would be considered minor – it would be measurable but very small relative to the overall local economy.

As noted in Section 4.10.1, Evaluation Criteria, economic development can cause adverse effects if it generates employment and population growth that cannot be absorbed readily by the affected area. Therefore, it is important to consider the economic impacts that would occur in the peak construction

year, when the greatest demand for labor would occur. In the peak construction year of 2027, total impacts under Alternative A would include 1,611 jobs, \$98.8 million in labor income, \$143.8 million in value added, and \$264.6 million in economic output.<sup>33</sup> The key driver for population growth, if any, would be employment. If the local economy could not provide sufficient workers in the peak construction year, this could drive population growth. Table 4.10-2 shows the sectors of the economy that would need to provide the greatest numbers of workers in the peak construction year. The relationships of this data to potential adverse socioeconomic effects are considered below the table.

Table 4.10-2. Construction Phase Top 10 Affected Industries, Peak Construction Year, for Alternative A

Industrial Sector	Total Employment (Jobs)
Construction of new health care structures	938
Architectural, engineering, and related services	82
Wholesale trade	43
Construction of new multi-family residential structures	25
Full-service restaurants	24
Real estate	24
Employment services	24
Limited-service restaurants	19
Truck transportation	17
Hospitals	15
Total Employment within Top 10 Affected Industries	1,211

Source: VA analysis using construction cost estimates and IMPLAN economic impact analysis model.

Construction-related jobs are rarely entirely or even largely net new jobs. Construction industry jobs exist in most local economies on an ongoing basis as new projects occur and workers move from project-to-project over time. Additional non-construction jobs (e.g., architecture jobs, restaurant jobs) also are indirectly supported by the continual presence of new construction projects as older projects finish. Further, in a robust economy such as that of Los Angeles County, even if the labor demands of a large new project exceed the construction worker turnover rate, many of the positions would be filled by local workers moving into construction from other sectors as jobs in those sectors decline. Finally, the natural growth of the labor force (growth that would occur regardless of a specific project) would provide additional workers. As shown in Table 3.10-7, the labor force of Los Angeles County increased 2.4 percent from 2010 to 2016, adding 125,879 workers. In short, in a large economy like that of Los Angeles County, the locally unfilled labor demand of even a very large construction project, and thus the need for new workers to move into the area, increasing the local population, would generally be far less than the number of jobs directly supported by the project, and may even be zero. The same economic dynamic would apply to indirectly supported jobs as well.

Table 4.10-2 helps in considering how the economic logic described above applies to the construction phase of Alternative A. Table 4.10-2 shows that the peak annual number of workers needed to support renovation activities under Alternative A would be small (less than 100) for most industrial sectors. These workers could be easily provided by the large Los Angeles County economy. A much larger

<sup>33</sup> Source: VA analysis using construction cost estimates and the IMPLAN economic impact analysis model.

number of workers (938) would be needed in the construction of new health care structures.<sup>34</sup> As of 2016, this sector supported 5,103 jobs in Los Angeles County (IMPLAN, 2017). While 938 is a relatively large portion of 5,103 (18 percent), many of these jobs could be filled by turnover across the entire construction industry, which had 228,817 jobs as of 2016 (178,364 in new facility construction sectors and the remainder in maintenance and repair construction sectors). Any remaining unfilled jobs with respect to Alternative A construction almost certainly could be filled by local workers moving from other economic sectors or by the natural increase in the labor force. Therefore, renovation activities under Alternative A would be unlikely to induce population growth, and thus also would be unlikely to cause noticeable changes to demographic patterns. In conclusion, no impacts to population or demographic patterns due to renovation activities under Alternative A are anticipated.

Given that construction-related impacts to population or demographic patterns under Alternative A would be none or negligible, renovation activities for Alternative A also would have no or negligible impacts on housing characteristics or residential development patterns. Construction would generate no or little additional housing demand. Even within the adjacent communities to the WLA Campus, housing demand and residential development would not be substantially affected. This is because construction and construction-related workers are likely to commute from within Los Angeles County. Therefore, nogrowth inducing impacts are expected from construction of Alternative A.

Renovation activities would not permanently displace residential populations or businesses, either on or outside of the WLA Campus. Renovation activities could temporarily disrupt social patterns of those Veterans that reside on or visit the WLA Campus. Health care and other Veteran services would be relocated as buildings are renovated. Traffic volumes on the WLA Campus could increase due to construction vehicles and there would likely be changes in traffic patterns and fewer available parking spaces near building renovation locations. There could be changes to building entry/egress locations, and detours and barriers to moving around the campus. Although these would be occurring throughout the construction schedule and not happening all at once in the same locations on campus, these factors would change the ways Veterans move around on the WLA Campus and where and how they meet and interact.

In addition, some Veterans may choose to avoid certain areas due to construction noises and vibrations or experience difficulties accessing parts of the WLA Campus. These factors would be particularly important for Veterans with mobility challenges, or with physical or mental health conditions that could be exacerbated by exposure to noise and vibration or by frustrations created by changing or inconvenient access to services and to places of social interaction. For instance, sudden loud sounds could be mistaken as explosions or gun fire by Veterans with combat experience, PTSD, or other mental health disorders and could trigger adverse mental and physical reactions.<sup>35</sup> However, because renovation activities would occur almost entirely inside buildings, the potential for disruptive noise and vibration impacts under Alternative A would be considerably less than other construction related activities, such as demolition and/or renovation activities that would occur in an open-air context.

Social impacts due to the factors noted above would be short-term and generally minor for most Veterans. The social impacts may be moderate for particularly sensitive Veterans. VA would take measures to

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<sup>&</sup>lt;sup>34</sup> This is the applicable sector for major renovation activities as well as new construction.

<sup>&</sup>lt;sup>35</sup> These and other potential triggering effects on Veterans with special health conditions are considered further in Section 4.15, Environmental Justice, because they are a particular concern in the environmental justice context.

minimize these various factors and their social impacts. Chapter 6, Mitigation, Monitoring, Minimization, and Best Practices, identifies BMPs and mitigation measures that would help reduce movement, noise, vibration, and other impacts and thereby reduce potential social impacts. For instance, VA would provide staff to assist resident and visiting Veterans in adjusting their patterns of movement and social interaction. Vehicle and pedestrian movement-related BMPs would be implemented. Measures to reduce the effects of noise and vibration on Veterans include scheduling of certain construction activities to occur outside of appointment hours and physical barriers to restrict noise transmission would be considered.

These and other BMPs and mitigation measures would reduce the effects on social interaction patterns. Most Veterans would still have opportunities to maintain meaningful levels of social interaction with other Veterans and with VA staff. With the implementation of these measures, overall social impacts would be negligible to minor for most Veterans. However, for some individual Veterans with severe health conditions, such as extreme PTSD, some noise and other impacts potentially could still be major, causing them to shun use of the WLA Campus. VA health care providers would need to be vigilant in providing increased case management and mitigation measures for these Veterans, first and foremost to ensure continuity of care.

Social impacts on the adjacent communities would be minor. Few members of these communities have social patterns based on visits to the WLA Campus. Construction traffic impacts outside the WLA Campus would attenuate rapidly with distance, and therefore would have no or little effect on social patterns outside the WLA Campus. Generally, there would be no noise and vibration impacts and potential or associated social impacts outside the WLA Campus because noise from interior renovations would only be noticeable near the buildings undergoing renovation activities.

### 4.10.3.2 Impacts from Operations

Key operational differences between Alternative A and Alternative E would be follows:

- Approximately 1.75 million ft<sup>2</sup> of buildings would be renovated. These buildings would be more
  energy and water efficient. However, resource use intensity at multiple buildings would increase
  (e.g., vacant buildings that become residential buildings).
- A total of 821 new residential units would be created under Alternative A. The Veteran
  population of the WLA Campus would increase by at least 821 people but could be greater if
  some units are used for Veteran couples or family housing.<sup>36</sup>
- WLA medical staff, service contracts, and other expenditures (e.g., drugs, supplies, and equipment) would increase to provide services to the increased on-campus Veteran population. Some of this population also would receive services on a non-residential basis under Alternative E, but service intensity would likely increase under Alternative A. WLA medical expenditures

<sup>&</sup>lt;sup>36</sup> In Alternative E, WLA Campus Veteran population is 645 based on the number of beds reported in Section 3.10 for Buildings 116 (New Directions), Buildings 214 and 217 (Domiciliary Residential Rehabilitation and Treatment Program), and Buildings 213 and 215 (Community Living Center, a VA-operated long-term care facility). This count does not include WLA staff housing (eight units), CalVet State Veterans home (396 units), or any EUL units. Under all alternatives, 208 units would be created through proposed EULs in Buildings 205, 207, and 208, and existing EUL in Building 209 (opened late in FY 2017). Impacts of the EUL buildings are considered in the cumulative impact analysis in Chapter 5, Cumulative Impacts.

may also increase because renovated health care facilities may allow for provision of additional services to non-resident Veterans as well.

- WLA research staff, service contracts, and other expenditures would decrease because buildings
  currently dedicated to research would be renovated for residential purposes. However, some
  research would continue in renovated health care buildings.
- WLA facilities staff, service contracts, and other maintenance expenditures may increase to support vacant buildings that would now be in use and buildings that would have greater use. However, there may be some staffing and maintenance efficiencies given updates to the renovated buildings.

Estimated operational budget implications relative to the Alternative E budget would be as follows:

- WLA medical staff and service contract expenditures would increase by 10 percent. The increase would not be large because medical services for the increased resident Veteran population and increases for other Veterans due to improved but not enlarged health care facilities would be small relative to the large existing medical budget.
- WLA expenditures on drugs, medical supplies and equipment, prosthetics, and other medical expenses also would increase by 10 percent.
- WLA research staff, service contracts, and other expenditures would decrease by 50 percent due to the substantial decrease in designated research space.<sup>37</sup>
- WLA utilities budget would remain roughly the same. Increased costs from increased facility usage and savings from increased resource efficiency would roughly cancel out.
- WLA facilities staff, service contracts, and other non-utility facility expenditures would also remain roughly the same as increased facility use and increased maintenance efficiencies would offset each other.<sup>38</sup>
- Other WLA expenditures not mentioned above, including administrative staff, service contracts, and other administrative expenditures, and WLA payments to the CalVet State Veterans home and to non-VA entities providing services to homeless Veterans, would remain roughly the same.

Based on the scenario described above, the WLA Campus operational budget would increase from \$824.8 million under Alternative E to \$884.4 million under Alternative A. The total number of WLA employees supported by this budget would increase from 5,146 (FY 2017) to 5,537.

Table 4.10-3 provides the results of the IMPLAN economic impact analysis for WLA Campus operations under Alternative A. These results are the impacts on the Los Angeles County economy. The impacts reported in the top portion of the table are mostly attributable to Alternative E budget. The net changes

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<sup>&</sup>lt;sup>37</sup> All research-designated salaries and expenditures represent only 1.5 percent of the Alternative E budget; therefore, variations from the estimated change of 10 percent would be small relative to the overall WLA Alternative E budget of \$825 million.

<sup>&</sup>lt;sup>38</sup> Utilities expenditures represent only 1.3 percent of the Alternative E (No Action) budget and other facilities staff, contract, and other expenditures represent only 8.1 percent. Therefore, any differences in facilities costs due to renovation would be small relative to the overall WLA Campus budget.

that would be caused by operations under Alternative A include additions to the local economy of 686 jobs, \$52.8 million in labor income, \$83.4 million in value added, and \$104.9 million in economic output.

Table 4.10-3. Operations Phase Economic Impacts Under Alternative A

Impact Type	Employment (Jobs)	Labor Income (\$ Million)	Value Added (\$ Million)	Economic Output (\$ Million)	
Impacts of the Total Oper	rational Budget Und	der Alternative A			
Direct Impact	5,537	\$510.9	\$781.8	\$884.4	
Indirect Impact	1,709	\$106.1	\$162.7	\$266.1	
Induced Impact	2,739	\$147.0	\$261.1	\$415.6	
Total Impact	9,985	\$764.0	\$1,205.6	\$1,566.1	
Impacts of the Total Operational Budget Under Alternative E (No Action)					
Total Impact	9,299	\$711.2	\$1,122.2	\$1,461.2	
Difference (Impacts Specifically Attributable to Alternative A)					
Total Impact	686	\$52.8	\$83.4	\$104.9	

Notes: Based on FY 2017 VA employment budget data adjusted to 2018 dollars, All dollar values are expressed in 2018 dollars.

The economic impacts specifically attributable to Alternative A reported in Table 4.10-3 would be beneficial new economic activity and new jobs for the Los Angeles County economy. This activity and these jobs would be created by federal spending that would not occur under Alternative E. However, the number of jobs created (686) would be small relative to the overall Los Angeles County economy. These jobs would be filled predominantly by workers transferring from other local jobs or by natural growth in the labor force as described in the discussion of construction impacts above. A small number of highly skilled jobs (e.g., doctors, other health care specialists) may require recruiting and relocation of workers from outside the county into Los Angeles County. In total, the net impact of Alternative A operations on population growth would be minor.

Given the minor net impact on population growth, impacts on housing and residential development due to the new jobs would also be minor. Alternative A creates 821 new residential units on the WLA Campus. However, these units would target housing of homeless Veterans from within Los Angeles County. Thus, they would not lead to a county-level population increase and no growth-inducing impacts. They would noticeably improve the housing situation for homeless Veterans; since there were 3,819 homeless Veterans in Los Angeles County in 2018 (Los Angeles Homeless Services Authority, 2018); therefore having a beneficial impact on homeless Veteran housing.

Operations under Alternative A would not permanently displace any residential populations or businesses. There would be no impacts based on that evaluation criterion.

Once renovation activities are completed, social impacts to Veterans who live on or visit the WLA Campus would be beneficial. Inconveniences and health issue triggers from renovation activities would no longer occur and operations would not generate additional inconveniences or other triggers. Veterans would have increased and improved opportunities for meaningful social interactions with other Veterans and with VA staff due to the increased number of Veterans residing on or visiting the WLA Campus and improved facilities.

# 4.10.4 Alternative B (Existing Building Demolition)

Alternative B involves demolition of 33 WLA Campus buildings. Prior to demolition activities, existing tenants and services would be relocated to other WLA Campus buildings. None of the demolished buildings would be replaced by new buildings; thus, many functions now occurring in these buildings would no longer take place.

## 4.10.4.1 Impacts from Construction

Construction phase expenditures for Alternative B from 2019-2029, in constant 2018 dollars, total an estimated \$43.4 million. The average expenditures per year would be \$3.9 million. Expenditures in the peak construction year of 2027 based on the current schedule would be \$16.7 million. These figures include P&D, which was assumed to be a non-local expenditure and was not run through the IMPLAN model. All other construction expenditures were assumed to occur within Los Angeles County and were included in the economic impact analysis.

Table 4.10-4 presents the annual average economic impacts to Los Angeles County that would result from Alternative B. Across the 2019 to 2029 construction period, Alternative B would support an annual average of 39 total jobs and \$6.5 million in total economic output.

Table 4.10-4. Annual Average Construction Phase Economic Impacts Under Alternative B

Impact Type	Employment (Jobs)	Labor Income (\$ Million)	Value Added (\$ Million)	Economic Output (\$ Million)
Direct Impact	23	\$1.4	\$1.9	\$3.9
Indirect Impact	8	\$0.5	\$0.8	\$1.3
Induced Impact	8	\$0.4	\$0.8	\$1.3
Total Impact	39	\$2.3	\$3.5	\$6.5

Note: All dollar values are expressed in 2018 dollars.

Source: VA analysis using construction cost estimates and the IMPLAN economic impact analysis model.

The jobs, labor income, value added, and economic output supported by construction activities (demolition) under Alternative B would be beneficial to the Los Angeles County economy. Given that the Los Angeles County economy as of 2016 generated economic output totaling over \$1.3 trillion and supported nearly 6.3 million jobs (IMPLAN, 2017), the beneficial impact of construction activities under Alternative B would be considered minor—it would be measurable but extremely small relative to the overall local economy. Notably, this impact would be much lower than that of the renovation activities proposed under Alternative A.

As noted in Section 4.10.1, Evaluation Criteria, economic impacts can cause adverse effects if they generate employment and population growth that cannot be absorbed readily by the affected area. Therefore, it is important to consider the economic impacts that would occur in the peak construction year, when the greatest demand for labor would occur. In the peak construction year of 2027, Alternative B's total impacts would include 159 jobs, \$9.7 million in labor income, \$14.2 million in value added, and \$26.2 million in economic output. The key driver for population growth, if any, would be employment. If the local economy could not provide sufficient workers in the peak construction year, this could drive

population growth. Table 4.10-5 shows the sectors of the economy that would need to provide the greatest numbers of workers in the peak construction year.

Table 4.10-5. Construction Phase Top 10 Affected Industries, Peak Construction Year for Alternative B

Industrial Sector	Total Employment (Jobs)
Construction of new health care structures	96
Architectural, engineering, and related services	7
Wholesale trade	4
Full-service restaurants	2
Real estate	2
Employment services	2
Limited-service restaurants	2
Truck transportation	2
Hospitals	2
Individual and family services	1
Total Employment within Top 10 Affected Industries	120

Source: VA analysis using construction cost estimates and the IMPLAN economic impact analysis model.

The construction impacts discussion for Alternative A described in detail how the number of jobs generated in the peak construction year for that Alternative would be unlikely to induce population growth, and thus also would be unlikely to cause noticeable changes to demographic patterns. Because the numbers of peak construction year jobs for Alternative B, as shown in Table 4.10-5, would be considerably lower than those of Alternative A, impacts to population or demographic patterns due to demolition activities under Alternative B also are not expected. Similarly, demolition activities for Alternative B would have no impacts on housing characteristics or residential development patterns specifically due to the number of construction jobs. Therefore, no growth-inducing impacts are anticipated from implementation of Alternative B demolition activities.

Demolition activities could temporarily disrupt social patterns of Veterans that reside on or visit the WLA Campus, for the same reasons described for Alternative A. Construction-related traffic volumes and associated social pattern impacts would be greater for Alternative B than Alternative A due to the need to haul away large quantities of demolition debris. Construction-related noises and vibrations and associated social pattern impacts also would be greater for Alternative B than Alternative A because of the open-air nature of demolition (versus interior renovations) and the use of heavier equipment.

Social impacts due to the factors noted above would be short-term and generally minor for most Veterans. The social impacts may be moderate for particularly sensitive Veterans. VA would take measures to minimize these various factors and their social impacts, as described for Alternative A and in Chapter 6, Mitigation, Monitoring, Minimization, and Best Practices. However, for some individual Veterans with severe health conditions, such as extreme PTSD, some noise and other impacts potentially could still be major causing them to shun use of the WLA Campus and thereby lose associated social patterns.

Over time, as more and more buildings are demolished and not replaced, social interaction patterns based on existing facilities would be impacted to an ever-greater degree. As health care buildings are demolished, there would be increasing disruptions to social interactions based on Veterans' use of those

facilities. Ultimately, the impacts would be major (severe and long-term) due to the large number of buildings that would be demolished and not replaced, greatly reducing Veterans' use of the WLA Campus and their ability to make and maintain meaningful social interactions.

Social impacts on the adjacent communities would be minor. Few members of these communities have social patterns based on visits to the WLA Campus. Construction traffic and noise impacts outside the WLA Campus would be greater than under Alternative A, but still would attenuate rapidly with distance and have little impact on social patterns outside the WLA Campus.

## 4.10.4.2 Impacts from Operations

Key operational differences between Alternative B and Alternative E would be as follows:

- Approximately 1.75 million ft<sup>2</sup> of buildings would be demolished. This represents approximately 62 percent of the current 2.8 million ft<sup>2</sup> of buildings on the WLA Campus. Demolition would include the main medical center complex and most of the additional buildings currently used for health care and research, as well as many multi-use and other buildings.
- The on-campus residential population of Veterans would decrease by 42 as the short-term emergency beds in the Welcome Center would be demolished.
- WLA medical staff, service contracts, and expenditures would decrease substantially because the demolitions would virtually eliminate space for health care services on the WLA Campus.
- WLA research staff, service contracts, and expenditures would decrease substantially because the demolitions would virtually eliminate research space on the WLA Campus.
- WLA facilities staff, service contracts, and expenditures (including utilities costs) would decrease because the demolitions would greatly reduce, but would not eliminate, the number and extent of facilities needing support.
- WLA administrative staff, service contracts, and expenditures would decrease because the large losses of medical, research, and other facility space and associated programs would reduce the need for administrative functions.

Estimated operational budget implications as compared to the Alternative E budget were based on professional judgement to be as follows:<sup>39</sup>

- WLA medical staff and service contract expenditures would decrease by 80 percent.
- WLA expenditures on drugs, medical supplies and equipment, and prosthetics would decrease by 80 percent.
- WLA research staff, service contract, and other expenditures would decrease by 90 percent.

<sup>&</sup>lt;sup>39</sup> Under Alternative B, VA would likely make up for many of the losses to Veterans services by shifting care and expenditures to other VA facilities and the private sector. However, how much care would be shifted, and how much of the associated expenditures would take place in Los Angeles County, cannot be reliably estimated or approximated. It is certain, however, that because of such shifts, the estimated economic impacts of Alternative B on Los Angeles County represent a worst-case scenario, and actual impacts would be less than estimated.

- WLA facilities staff, service contracts, and other expenditures (including utilities) would decrease by 80 percent. This is more than the 69 percent decrease in building area because elimination of the medical center would have a disproportionate impact on reductions in facility expenditures.
- WLA administrative staff, service contract, and other expenditures would decrease by 70 percent.
   This is somewhat less than the decreases in medical and research costs due to the basic overhead of operating the WLA Campus.
- WLA payments to the CalVet State Veterans home and to non-VA entities providing services to homeless Veterans would remain the same.

Based on the scenario described above, the WLA Campus operational budget would decrease from \$824.8 million under Alternative E to \$187.7 million under Alternative B. The total number of WLA employees supported by this budget would decrease from 5,146 (FY 2017) to 1,071.

Table 4.10-6 provides the results of the IMPLAN economic impact analysis for WLA Campus operations under Alternative B. These results are the impacts on the Los Angeles County economy. The net changes specifically attributable to Alternative B relative to Alternative E include losses of 7,050 jobs, \$547.5 million in labor income, \$860.7 million in value added, and \$1,097.1 million (\$1.1 billion) in economic output.

Table 4.10-6. Operations Phase Economic Impacts Under Alternative B

Impact Type	Employment (Jobs)	Labor Income (\$ Million)	Value Added (\$ Million)	Economic Output (\$ Million)	
Impacts of the Total Oper	rational Budget Und	der Alternative B			
Direct Impact	1,071	\$98.8	\$151.2	\$187.7	
Indirect Impact	592	\$33.4	\$54.4	\$87.4	
Induced Impact	586	\$31.5	\$55.9	\$89.0	
Total Impact	2,249	\$163.7	\$261.5	\$364.1	
Impacts of the Total Operational Budget Under Alternative E (No Action)					
Total Impact	9,299	\$711.2	\$1,122.2	\$1,461.2	
Difference (Impacts Specifically Attributable to Alternative B)					
Total Impact	-7,050	-\$547.5	-\$860.7	-\$1,097.1	

Notes: Based on FY 2017 VA employment budget data adjusted to 2018 dollars, All dollar values are expressed in 2018 dollars.

The net economic losses shown in Table 4.10-6 would be adverse impacts on the Los Angeles County economy and would be considered minor to moderate impacts (minor because they are small in relation to the overall Los Angeles County economy, but moderate because they would have long-term (permanent) effects).

Given the job losses, Alternative B would have neither population growth-inducing impacts on Los Angeles County, nor would it create any additional housing demand. On the contrary, while many of the holders of the lost WLA Campus jobs would find other employment within Los Angeles County, probably some would choose to find jobs and relocate outside the county. The population losses would be considered major impacts because relocations outside the county would represent permanent displacement of a portion of the population. However, the population losses and associated reductions in

housing demand would be small relative to the size of the Los Angeles County population and housing market.

Alternative B would produce important changes to housing and social patterns for the Veteran community. On-campus housing capacity would decrease because the Welcome Center with 42 emergency beds would be demolished. Homeless Veterans who would otherwise obtain short-term/emergency housing at the Welcome Center would have to find housing elsewhere or perhaps would remain homeless. In addition, because the demolitions would virtually eliminate space for health care services on the WLA Campus and greatly reduce the number of medical and other VA staff on the Campus, few Veterans would visit the WLA Campus; the remaining Veterans in residence would have many fewer opportunities for meaningful social interaction with other Veterans or with VA staff.

Losses of medical services probably would affect the ability of some resident Veterans to maintain their physical and/or mental health, which could further impact their social patterns. VA may need to shift some care to other VA facilities, but this would still result in substantial changes to social patterns for WLA Campus resident Veterans and those Veterans who would otherwise visit the WLA Campus to obtain services and interact with other Veterans and VA staff. Overall, given the extent and long-term nature of facility demolitions and associated service losses under Alternative B, the impacts on Veteran's social patterns would be major. VA staff at other VA facilities in the region would encourage social interaction among the Veterans who are shifted to care at other facilities, but the social impacts of Alternative B would still be major.

## 4.10.5 Alternative C (Demolition and New Construction)

Alternative C involves full demolition of 33 buildings throughout the WLA Campus with new construction of replacement buildings to support future use activities. Additional new construction is projected for parking areas, athletic fields, and vacant land on the North Campus to support new housing for homeless Veterans and a new town center.

### 4.10.5.1 Impacts from Construction

Construction phase expenditures for Alternative C from 2019-2029, in constant 2018 dollars, would total an estimated \$2,143.8 million (\$2.1 billion). The average expenditures per year would be \$194.9 million. Expenditures in the peak construction year of 2021 based on the current schedule would be \$334.7 million. These figures include P&D, which was assumed to be a non-local expenditure and was not run through the IMPLAN model. All other construction expenditures were assumed to occur within Los Angeles County and were included in the economic impact analysis.

Table 4.10-7 presents the annual average economic impacts to Los Angeles County that would result from Alternative C. Across the 2019 to 2029 construction period, Alternative C would support an annual average of 1,700 total jobs and \$279.2 million in total economic output.

<sup>&</sup>lt;sup>40</sup> The peak construction year for Alternative C differs from that for Alternatives A and B because Alternative C includes new construction not included under the other Alternatives, and some of this new construction would occur earlier in the construction period.

Table 4.10-7. Annual Average Construction Phase Economic Impacts Under Alternative C

Impact Type	Employment (Jobs)	Labor Income (\$ Million)	Value Added (\$ Million)	Economic Output (\$ Million)
Direct Impact	1,015	\$62.7	\$83.1	\$170.6
Indirect Impact	320	\$20.4	\$32.3	\$53.3
Induced Impact	365	\$19.6	\$34.8	\$55.3
Total Impact	1,700	\$102.7	\$150.2	\$279.2

Note: All dollar values are expressed in 2018 dollars.

Source: VA analysis using construction cost estimates and the IMPLAN economic impact analysis model.

Jobs, labor income, value added, and economic output supported by construction activities under Alternative C would be beneficial to the Los Angeles County economy. Given that the Los Angeles County economy as of 2016 generated economic output totaling over \$1.3 trillion and supported nearly 6.3 million jobs (IMPLAN, 2017), the beneficial impact of construction under Alternative C would be considered minor—it would be measurable but small relative to the overall local economy.

As noted in Section 4.10.1, Evaluation Criteria, economic impacts can cause adverse effects if they generate employment and population growth that cannot be absorbed readily by the affected area. Therefore, it is important to consider the economic impacts that would occur in the peak construction year, when the greatest demand for labor would occur. In the peak construction year of 2021, Alternative C's total impacts would include 2,956 jobs, \$178.8 million in labor income, \$260.2 million in value added, and \$477.0 million in economic output.<sup>41</sup> The key driver for population growth, if any, would be employment. If the local economy could not provide sufficient workers in the peak construction year, this could drive population growth. Table 4.10-8 shows the sectors of the economy that would need to provide the greatest numbers of workers in the peak construction year.

Table 4.10-8. Construction Phase Top 10 Affected Industries, Peak Construction Year, for Alternative C

Industrial Sector	Total Employment (Jobs)
Construction of new health care structures	860
Construction of new multifamily residential structures	715
Architectural, engineering, and related services	143
Construction of new commercial structures, including farm structures	97
Wholesale trade	70
Real estate	46
Full-service restaurants	43
Employment services	41
Retail - Miscellaneous store retailers	36
Limited-service restaurants	34
Total Employment within Top 10 Affected Industries	2,085

Source: VA analysis using construction cost estimates and the IMPLAN economic impact analysis model.

The construction impacts discussion for Alternative A described in detail how the number of jobs generated in the peak construction year for that alternative would be unlikely to induce population

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<sup>&</sup>lt;sup>41</sup> Source: VA analysis using construction cost estimates and the IMPLAN economic impact analysis model.

growth, and thus also would be unlikely to cause noticeable changes to demographic patterns. Alternative C would generate a larger number of jobs in both the average and peak construction years. However, Table 4.10-8 shows that the peak annual number of workers needed to support construction under Alternative C would be small (less than 100) for most industrial sectors. These workers could be easily provided by the large Los Angeles County economy. A larger number of workers (143) would be needed in the architectural, engineering, and related services sector. As of 2016, this sector supported 40,537 jobs in Los Angeles County (IMPLAN, 2017). The sector could easily supply the number of workers needed by Alternative C peak construction year through project-to-project turnover. Table 4.10-8 also shows that 1,575 workers would be needed in two construction sectors. As of 2016, these sectors supported 12,791 jobs in Los Angeles County and all construction sectors supported 228,817 jobs (IMPLAN, 2017). These sectors could probably fill the 1,575 construction jobs for the Alternative C peak construction year through project-to-project turnover, and if not, any remaining unfilled jobs almost certainly could be filled by local workers moving from other economic sectors or by the natural increase in the labor force. Therefore, construction activities under Alternative C would be unlikely to cause population growth-inducing impacts, and thus also would be unlikely to cause noticeable changes to demographic patterns. In conclusion, impacts to population or demographic patterns due to construction under Alternative C would be minor.

Given that construction-related impacts to population or demographic patterns under Alternative C would be minor, construction activities for Alternative C also would have no impacts on housing characteristics or residential development patterns. Construction would generate no or little additional housing demand. Even within the adjacent communities to the WLA Campus, housing demand and residential development would not be substantially affected because construction-related workers are likely to commute from within Los Angeles County. Construction activities under Alternative C would not permanently displace any residential populations or businesses, either on or outside of the WLA Campus.

Construction activities would temporarily disrupt social patterns of Veterans that reside on or visit the WLA Campus, for the same reasons described for Alternative A. Construction-related traffic volumes and associated social pattern impacts would be greater for Alternative C than Alternatives A and B due to the need to haul away large quantities of demolition debris and the large volume of new construction. Construction-related noises and vibrations and associated social pattern impacts also would be greater for Alternative C than Alternative A because of the open-air nature of demolition (versus interior renovations) and the use of heavier equipment, and greater than Alternative B because of the extensive amount of new construction.

Social impacts due to the factors noted above would be short-term and generally minor for most Veterans. Social impacts may be moderate for particularly sensitive Veterans. VA would take measures to minimize these various factors and their social impacts, as described for Alternative A and in Chapter 6, Mitigation, Monitoring, Minimization, and Best Practices. These BMPs and mitigation measures would reduce the effects on social interaction patterns due to the factors described above. Most Veterans would still have opportunities to maintain meaningful levels of social interaction with other Veterans and VA staff. However, for some individual Veterans with severe health conditions, such as extreme PTSD, some noise and other impacts potentially could still be major, causing them to shun use of the WLA Campus and thereby lose associated social patterns.

Social impacts on the adjacent communities generally would be minor. Few members of these communities have social patterns based on visits to the WLA Campus. Construction traffic and noise impacts outside the WLA Campus would be greater than under Alternative A, but still would attenuate rapidly with distance and have little impact on social patterns outside the WLA Campus.

## 4.10.5.2 Impacts to Operations

Key operational differences between Alternative C and the Alternative E would be as follows:

- Approximately 1.75 million ft² of existing buildings would be demolished, including the main medical center complex. Approximately 3.2 million gross ft² of new residential buildings and medical and other facilities, including a new hospital/outpatient clinic complex, would be constructed. Thus, Alternative C would result in approximately 1.5 million ft² of net new facility space on the WLA Campus, a 57 percent increase in space compared to Alternative E.
- New residential buildings would add 1,622 units of Veteran housing to the WLA Campus. The Veteran population of the WLA Campus would increase by at least 1,622 people. The population increase would be greater if some units are used for Veteran couples or family housing.
- WLA medical staff, service contracts, and other expenditures would increase because of the
  increased Veteran population on the WLA Campus. Medical services may also increase for nonresident Veterans. The area of health care-designated buildings would increase by approximately
  20 percent.
- While no buildings under Alternative C as currently described are designated specifically for research use, some amount of research and associated staff, service contracts, and other expenditures would continue in rebuilt health care buildings and potentially other buildings.
- WLA facilities staff, service contracts, and other expenditures (including utilities costs) would increase because new construction would considerably increase the number and extent of facilities needing support.
- WLA administrative staff, service contracts, and other expenditures would increase because of
  the increased Veteran population and increased Veteran services possible with the large increase
  in facility space on the WLA Campus.

Estimated operational budget implications as compared to the Alternative E budget were based on professional judgement to be as follows:

- WLA medical staff and service contract expenditures would increase by 25 percent given the
  increased resident Veteran population and Veteran services possible with the increase in health
  care space on the WLA Campus.
- WLA expenditures on drugs, medical supplies and equipment, and prosthetics would also increase by 25 percent.
- WLA research staff, service contract, and other expenditures would remain roughly the same as Alternative E.

- WLA facilities staff, service contract, and other expenditures (including utilities) would increase by 40 percent. This is less than the 57 percent increase in building area because resource use and maintenance efficiencies would be achieved with the new buildings.
- WLA administrative staff, service contract, and other expenditures would increase by 15 percent.
   This is less than the increases in medical and facilities costs due to presumed efficiencies in managing the WLA Campus and services.
- WLA payments to the CalVet State Veterans home and to non-VA entities providing services to homeless Veterans would remain the same.

Based on the scenario described above, the WLA Campus operational budget would increase from \$824.8 million under Alternative E to \$1,028.2 million (\$1.0 billion) under Alternative C. The total number of WLA employees supported by this budget would increase from 5,146 (FY 2017) to 6,400.

Table 4.10-9 provides the results of the IMPLAN economic impact analysis for WLA Campus operations under Alternative C. These results are the impacts on the Los Angeles County economy. The impacts reported in the top portion of the table are mostly attributable to Alternative E budget. The net changes that would be caused by operations under Alternative C include additions to the local economy of 2,267 jobs, \$173.8 million in labor income, \$273.9 million in value added, and \$359.4 million in economic output.

Table 4.10-9. Operations Phase Economic Impacts Under Alternative C

Impact Type	Employment (Jobs)	Labor Income (\$ Million)	Value Added (\$ Million)	Economic Output (\$ Million)	
Impacts of the Total Open	rational Budget Und	der Alternative C			
Direct Impact	6,400	\$590.5	\$903.6	\$1,028.2	
Indirect Impact	1,994	\$124.2	\$190.0	\$311.0	
Induced Impact	3,172	\$170.3	\$302.5	\$481.4	
Total Impact	11,566	\$885.0	\$1,396.1	\$1,820.6	
Impacts of the Total Operational Budget Under Alternative E (No Action)					
Total Impact	9,299	\$711.2	\$1,122.2	\$1,461.2	
Difference (Impacts Specifically Attributable to Alternative C)					
Total Impact	2,267	\$173.8	\$273.9	\$359.4	

Notes: Based on FY 2017 VA employment budget data adjusted to 2018 dollars, All dollar values are expressed in 2018 dollars.

The economic impacts specifically attributable to Alternative C reported in Table 4.10-9 would be beneficial new economic activity and new jobs for the Los Angeles County economy. This activity and these jobs would be created by federal spending that would not occur under Alternative E. The number of jobs created (2,267) would be considerably larger than the number created by Alternative A, but still would be small relative to the overall Los Angeles County economy. These jobs would be filled predominantly by workers transferring from other local jobs or by natural growth in the labor force as described in the discussion of construction impacts for Alternative A. Some highly skilled jobs (e.g., doctors and other health care specialists) may require recruiting and relocation of workers from outside the county. However, in total, the net impact of Alternative C operations on population growth would be minor. No growth-inducing impacts are anticipated from Alternative C construction.

Given the minor net impact on population growth, impacts on housing and residential development due to the new jobs would also be minor. Alternative C would directly create 1,622 new residential units on the WLA Campus. However, these units would target housing of homeless Veterans from within Los Angeles County. Thus, they would not lead to a county-level population increase. They would noticeably improve the housing situation for homeless Veterans and would do so more than Alternative A would. However, since there were 3,819homeless Veterans in Los Angeles County in 2018 (Los Angeles Homeless Services Authority, 2018), the beneficial impact on homeless Veteran housing would be considered moderate.

WLA Campus operations under Alternative C would not permanently displace any residential populations or businesses. There would be no adverse impacts based on that evaluation criterion. Instead, some new businesses would be created on the WLA Campus through development of a town center.<sup>42</sup>

Once construction is completed, social impacts to Veterans who live on or visit the WLA Campus would be beneficial. Inconveniences and health issue triggers from construction activities would no longer occur and operations would not generate additional inconveniences or other triggers. Veterans would have increased and improved opportunities for meaningful social interactions with other Veterans and VA staff due to the increased number of Veterans residing on or visiting the Campus and the improved facilities, including the new town center. These beneficial social impacts would be considered moderate as they would occur over the long-term, and would be greater than the social benefits generated by Alternative A.

Social impacts on the adjacent communities generally are not expected. Few members of these communities have social patterns based on visits to the WLA Campus, and the WLA Campus configuration under Alternative D would not substantially change that.

### 4.10.6 Alternative D (Renovation, Demolition, and New Construction)

Under Alternative D, there would be a combination of renovations and retrofits of existing buildings on the WLA Campus, demolition of existing buildings with no replacement construction, demolition and construction of new buildings within existing building site areas, or construction of new buildings on existing parking areas, athletic fields, and vacant lands on the WLA Campus. Potentially some demolished buildings would not be replaced. The total square footage of demolished buildings and the total square footage of new buildings would each be somewhat less than would occur under Alternative C because some buildings would be renovated rather than demolished and replaced. However, the total area of new or improved buildings would be similar to Alternative C.

## 4.10.6.1 Impacts from Construction

The potential economic impacts of construction for Alternative D would be similar to, but somewhat less than, those of Alternative C. This is because some buildings would be renovated rather than demolished and replaced. In most cases, the cost of renovation would be less than the cost of demolition followed by construction of a replacement building. Therefore, there would be less economic activity generated. The

<sup>&</sup>lt;sup>42</sup> Job creation by these businesses was not included in the economic impact estimates as the scope of the town center and its associated jobs is not yet clearly defined.

exact mix of renovated, demolished, and newly constructed under Alternative D currently is not known; therefore, the economic impacts of construction for Alternative D cannot be quantified.

As with Alternative C, the employment, labor income, value added, and economic output impacts of Alternative D would be beneficial to the Los Angeles County economy. A smaller number of workers would be required in the construction sector and other industrial sectors than under Alternative C. The same economic dynamics would apply for Alternative D as for Alternative C (Section 4.10.6.1, Impacts from Construction). Jobs probably would be filled through project-to-project construction-related labor employment turnover, and if not, any remaining unfilled jobs almost certainly could be filled by workers moving from other economic sectors or by the natural increase in the labor force. Therefore, construction under Alternative D would be unlikely to induce population growth and thus also would be unlikely to cause noticeable changes to demographic patterns. In conclusion, impacts to population or demographic patterns due to construction under Alternative D would be minor, and no growth-inducing impacts are expected.

Alternative D also would have no impacts on housing characteristics or residential development patterns, for the same reasons described for Alternative C (Section 4.10.6.1, Impacts from Construction). Construction under Alternative D would not permanently displace any residential populations or businesses, either on or outside of the WLA Campus.

Construction activities would disrupt social patterns of Veterans that reside on or visit the WLA Campus in the same manner as Alternative C. These social impacts would be short-term and generally minor for most Veterans. The social impacts may be moderate to major for particularly sensitive Veterans. VA would take measures to minimize these various factors and their social impacts, as described for Alternative A and in Chapter 6, Mitigation, Monitoring, Minimization, and Best Practices. BMPs and mitigation measures would reduce the effects on social interaction patterns due to the factors described above. Most Veterans would still have opportunities to maintain meaningful levels of social interaction with other Veterans and VA staff. However, for some individual Veterans with severe health conditions, such as extreme PTSD, some noise and other impacts potentially could still be major, causing them to shun use of the WLA Campus and thereby lose associated social patterns.

As with Alternative C, social impacts on the adjacent communities generally would be minor. Few members of these communities have social patterns based on visits to the WLA Campus. Construction traffic and noise impacts outside the WLA Campus would be similar to those of Alternative C, and greater than under Alternative A, but still would attenuate rapidly with distance and have little impact on social patterns outside the WLA Campus.

## 4.10.6.2 Impacts from Operation

The ultimate configuration of WLA facilities under Alternative D would be similar to Alternative C in terms of the number of housing units added and the types and square footage of facilities added or improved through renovation. Therefore, the budgetary requirements for operation of the WLA Campus under Alternative D would be similar and the resulting levels of jobs and other economic activity created by Alternative D would be similar to Alternative C. Therefore, the operational economic impacts of Alternative D would be beneficial but minor since they would be small relative to the overall Los Angeles County economy.

The net impact of Alternative D operations on population growth would be minor, for the same reasons described for Alternative C (Section 4.10.4.2, Impacts from Operations). Given the minor net impact on population growth, impacts on housing and residential development due to new jobs would also be minor. Therefore, no growth-inducing impacts are anticipated. Alternative D would directly create a similar number of new residential units on the WLA Campus as Alternative C. However, these units would target housing of homeless Veterans from within Los Angeles County. Thus, they would not lead to a county-level population increase. They would noticeably improve the housing situation for homeless Veterans, but since there were 3,819 homeless Veterans in Los Angeles County in 2018 (Los Angeles Homeless Services Authority, 2018), resulting in a beneficial impact on homeless Veteran housing.

WLA Campus operations under Alternative D would not permanently displace any populations or businesses. There would be no adverse impacts based on that evaluation criterion. Instead, some new businesses would be created on the WLA Campus through development of a town center.<sup>43</sup>

Once construction is completed, social impacts to Veterans who live on or visit the WLA Campus would be beneficial, and similar to the impacts of Alternative C. Inconveniences and health issue triggers from construction activities would no longer occur and operations would not generate additional inconveniences or other triggers. Veterans would have increased and improved opportunities for meaningful social interactions with other Veterans and VA staff due to the increased number of Veterans residing on or visiting the WLA Campus and the improved facilities, including the new town center. These beneficial social impacts would be considered moderate as they would occur over the long-term.

Social impacts on the adjacent communities generally are not expected. Few members of these communities have social patterns based on visits to the WLA Campus, and the new Campus configuration under Alternative D would not substantially change that.

### 4.10.7 Alternative E (No Action)

Under Alternative E, the WLA Campus would remain the same as present day. No construction activities tied to the Proposed Action would occur on the WLA Campus.

## 4.10.7.1 Impacts from Construction

Under Alternative E, there would be no renovating or retrofitting of existing buildings on the WLA Campus. Therefore, Alternative E would not generate any new economic activity in Los Angeles County, including construction employment, nor would it generate any population growth or new housing demand. In addition, because no housing would be built under Alternative E, no impacts related to on-Campus housing would occur. No residential populations or businesses would be displaced. No social impacts to Veterans would occur because social interaction patterns of Veterans residing on or visiting the WLA Campus would not be disrupted and would remain as they are now. In short, Alternative E would have no construction-related socioeconomic impacts.

<sup>43</sup> Job creation by these businesses was not included in the economic impact estimates as the scope of the town center and its associated jobs is not yet clearly defined.

## 4.10.7.2 Impacts from Operations

Under Alternative E, there would be no change in operations on the WLA Campus as the existing buildings and operations would remain the same as present day. No new operational changes of existing uses would occur. The WLA Campus operations budget for Alternative E would be \$824.8 million, and total WLA federal payroll including benefits would be \$474.8 million, based on FY 2017 VA budget data adjusted to 2018 dollars. This budget would support 5,146 WLA employees, consistent with FY 2017 WLA employee count.<sup>44</sup>

Table 4.10-10 provides the results of the IMPLAN economic impact analysis for WLA Campus operations under Alternative E. These results are the impacts on the Los Angeles County economy of status quo operation of the WLA Campus. The direct impacts for employment, labor income, and economic output correspond to the WLA Campus 2017 budget-based data summarized above. All other figures were calculated by the IMPLAN model. The total annual impacts of operations of the WLA Campus under Alternative E would include 9,299 jobs, \$711.2 million in labor income, \$1,122.2 million (\$1.1 billion) in value added, and \$1,461.2 million (\$1.5 billion) in economic output.

It is important to understand that Alternative E represents status quo continuation of current operations of the WLA Campus; therefore, the net economic impacts of Alternative E compared to current operations would be zero. The impacts of the total operational budget under Alternative E are reported to show the contributions of current operations of the WLA Campus to Los Angeles County, and are the basis for determining the net impacts of Alternatives A through D.

**Table 4.10-10. Operations Phase Economic Impacts Under Alternative E (No Action)** 

Impact Type	Employment (Jobs)	Labor Income (\$ Million)	Value Added (\$ Million)	Economic Output (\$ Million)	
Impacts of the Total Opera	ational Budget Und	er Alternative E			
Direct Impact	5,146	\$474.8	\$726.5	\$824.8	
Indirect Impact	1,604	\$99.5	\$152.6	\$249.6	
Induced Impact	2,549	\$136.9	\$243.1	\$386.8	
Total Impact	9,299	\$711.2	\$1,122.2	\$1,461.2	
Impacts of the Total Current WLA Campus Operational Budget					
Total Impact	9,299	\$711.2	\$1,122.2	\$1,461.2	
Difference (Impacts Specifically Attributable to Alternative E)					
Total Impact	0	\$0.0	\$0.0	\$0.0	

Notes: Based on FY 2017 VA employment budget data adjusted to 2018 dollars, All dollar values are expressed in 2018 dollars.

Alternative E would have no impacts on population growth or housing demand, nor would it displace any residential populations or businesses. It would have no social impacts on Veterans residing on or visiting

<sup>&</sup>lt;sup>44</sup> Total WLA Campus operational costs would be slightly higher under Alternative E than under the FY 2017 WLA Campus budget due to operation of four EUL renovation projects. The facility and Veteran services costs associated with these buildings are not reflected in the FY 2017 WLA Campus budget. Since these buildings would be renovated and these costs would occur under all Alternatives, these costs are not germane to comparison of the alternatives, and therefore the baseline budget was not adjusted for these costs. The four EUL buildings are considered instead in the cumulative economic impacts analysis found in Chapter 5, Cumulative Impacts.

the WLA Campus; social interaction patterns would remain as they are now. Similarly, it would result in no changes or impacts to social patterns in the adjacent communities. However, Alternative E would not contribute to improving the homelessness concerns for Veterans in the greater Los Angeles area. Vulnerable Veterans would continue to experience homelessness, and the WLA Campus would be limited in its ability to provide housing as intended by the purpose and need of the Proposed Action. Therefore, Alternative E would have minor operations-related socioeconomic impacts.

# 4.11 Community Services

This section describes potential impacts to community services associated with the proposed realignment and development at the WLA Campus. Chapter 6, Mitigation, Monitoring, Minimization, and Best Practices, provides a listing of mitigation measures and BMPs that VA would require, as practicable or feasible, to avoid or minimize potential impacts to community services.

#### 4.11.1 Evaluation Criteria

The potential for adverse effects to community services occurs when an activity:

- Impedes access and/or availability to and from a community service;
- Interferes with a service's ability to function at its current capacity; or
- Results in the termination of a service being provided.

#### 4.11.2 Assessment Methods

Each alternative was assessed qualitatively by comparing the projected level of service requirements and access to those services against the baseline conditions described in Section 3.11, Community Services. Demand for and use of community services are largely driven by population changes. However, as described in Section 4.10, Socioeconomics, none of the alternatives analyzed is projected to lead to significant growth in local population based on employment demand. Therefore, for purpose of this analysis, the only population growth considered is the new units of supportive housing inside the WLA Campus.

# 4.11.3 Alternative A (Existing Building Renovations)

### 4.11.3.1 Impacts from Construction

Alternative A involves renovations to 33 buildings on the WLA Campus. Prior to renovations, existing tenants and services from the affected buildings would be relocated to other buildings on the WLA Campus. This has the potential to affect services offered to Veterans by the VA main hospital (Building 500) and other associated health care facilities on campus. In addition, the VAPD headquarters (Building 236) is one of the buildings being renovated, potentially disrupting police operations. These potentially adverse effects would be mitigated by the development of a detailed construction sequencing plan that provides a phased approach to vacating, renovating, and reoccupying the buildings without losing continuity of services.

During renovation activities, there is a potential for increased risk of fire or workplace accidents, especially from use of mechanical equipment and flammable construction materials. In most cases,

implementation of "good housekeeping" procedures and best construction practices by the contractors and work crews would minimize such hazards. Construction contractors performing the renovations would be required to prepare and submit to VA a fire prevention and emergency plan prepared in accordance with OSHA regulations in 29 CFR Part 1926.

Existing access points to the WLA Campus are not expected to close during the construction period, and internal roadways are not expected to experience heavy traffic increases. Single lanes of traffic within the WLA Campus could at times be closed around the buildings being renovated for utility roadwork, potentially slowing down police, fire, or EMS response times. However, access to all buildings is expected to be maintained at all times.

Under Alternative A, existing parks and recreational areas would not undergo construction actions, but nearby construction activity with increased noise and traffic could potentially deter some users. However, access to those areas is expected to be maintained throughout the construction phase. Therefore, impacts to the parks and recreational areas are expected to be minor. Renovation activities are expected to have no impact to nearby schools.

# 4.11.3.2 Impacts from Operations

Completion of Alternative A renovations would provide benefits to the hospitals, clinics, and law enforcement services on WLA Campus due to upgraded facilities.

Under Alternative A, the main hospital and VAPD would continue to serve the WLA Campus. Implementing Alternative A would increase the number of persons on campus by up to 821, due to the conversion of many of the existing buildings to supportive housing for homeless Veterans. This increase in population has the potential to increase the number of calls for service to police, yet any increase in demand for services is not expected to substantially affect response times as VAPD officers are stationed on campus. The need for additional staff members and/or equipment would not result in changes to service levels such that new police protection facilities would need to be built. Similarly, the new residential population may have an increased need for fire/rescue and EMS, particularly since LAFD would provide EMS services to residents of the North Campus who need emergency transport to the South Campus medical facilities. However, the potential increase in calls for service is expected to minimal in the context of the volume of calls to which LAFD currently responds. Operational impacts of Alternative A on law enforcement services are expected to be minor.

Parks and recreation and schools are not expected to see any impacts due to operations of Alternative A. The additional demand for those community services by the new Veterans residents on the WLA Campus is minor when compared to overall population in the area who currently uses those services.

## 4.11.4 Alternative B (Existing Building Demolition)

### 4.11.4.1 Impacts from Construction

Alternative B involves demolition of 33 buildings throughout the WLA Campus. Impacts from demolition activities under Alternative B and expected to be similar to those of Alternative A. Prior to demolition activities, existing tenants and services would be relocated to other buildings on the WLA Campus.

Because the VAPD headquarters (Building 236) is one of the buildings being demolished, a new permanent home for the VAPD headquarters would need to be identified and operations moved to the new location, resulting in a minor impact to police services. No measurable impacts are expected to fire/EMS or schools.

# 4.11.4.2 Impacts from Operations

Following the demolition of the WLA Medical Center buildings, all services would be consolidated within the remaining buildings on campus. This would cause major adverse impacts as there may not be adequate space to support all medical staff and services as well as the tenants/services from all other demolished buildings. Under Alternative B, approximately 1.75 million ft<sup>2</sup> of existing building space would be demolished, and all tenants and services would be consolidated into the remaining approximately 960,000 ft<sup>2</sup>. If all services cannot be appropriately relocated, Veterans may then need to seek those services at other VA locations in the greater Los Angeles area that may not be as familiar or easily accessible (e.g., Sepulveda or Long Beach).

Under Alternative B operations, police, fire/rescue and EMS, and schools would not experience any adverse effects. The population of the campus would remain the same or possibly decrease as buildings are permanently removed, and therefore demand for these services could decrease.

Following demolitions, the landscape previously occupied by the buildings would be restored to naturalized, open grassy areas and similar vegetative cover. Therefore, the WLA Campus would gain 16 acres of open green space.

### 4.11.5 Alternative C (Demolition and New Construction)

## 4.11.5.1 Impacts from Construction

Alternative C involves demolition of 33 buildings throughout the WLA with new construction of replacement buildings on the same footprints to support future uses. In addition, new construction of supportive housing units and a town center is proposed on several existing parking areas, athletic fields, and vacant or underutilized land.

Impacts to community services from construction under Alternative C would be similar in nature to those of Alternative A but greater in scope and possibly longer in duration due to the additional construction projected. Prior to any building demolition, services and functions would need to be temporarily relocated. This includes all the health care facilities (such as the main hospital, Building 500) and the police headquarters (Building 236). To ensure continuity of services during the construction phase, a detailed construction sequencing plan would need to be developed.

Certain construction equipment, materials, and activities such as welding, may increase the risk of fire on the WLA Campus during construction activities of Alternative C. This potential impact can be addressed by requiring contrition contractors to prepare a fire prevention and emergency plan in accordance with 29 CFR Part 1926 before the initiation of work.

The additional construction traffic and possible partial road closures inside the campus could potentially affect response times of police, fire/rescue, and emergency medical services. However, access is expected to be maintained at all times during the construction period.

Alternative C proposes approximately 680,850 ft<sup>2</sup> of new supportive housing units to be constructed in one or more of the following existing parks and recreation areas on the North Campus: Heroes Golf Course, the northeast corner of Veterans Barrington Park, a parcel between the golf course and Veterans Barrington Park, MacArthur Field, and the green space south of CalVet. Figure 2.2-3 illustrates the locations of these green spaces. Construction activities on the identified parks and recreational facilities would result in an adverse effect, as these facilities would be closed to the public throughout the duration of all construction activities.

Impacts from new construction could result in some increased construction traffic, yet construction impacts to most nearby schools would not be expected. Brentwood School, which is located in close proximity to the proposed locations for new construction of homeless housing, may be impacted by construction-related noise and distracting visuals from the active and long-term construction activities. To help mitigate these minor impacts, construction teams could use sounds walls and other best practices to prevent distraction to the ongoing function of the Brentwood School. Access to school facilities would not be affected, as the Brentwood School athletic fields are generally accessed from an entry point outside of the campus.

## 4.11.5.2 Impacts from Operations

Operational impacts to hospitals and clinics on the WLA Campus are expected to be beneficial as new facilities would be equipped to provide state-of-the-art care to Veterans.

Under Alternative C, the population increase on campus includes at least 1,200 Veterans who would become residents of the newly constructed supportive housing development. The increase in population is expected to occur incrementally during a 10 to 15-year span. As a result of this increase in campus population, there would be an anticipated small increase in demand for fire and EMS services, but demand is not expected to reach a level that is unmanageable by the LAFD Station 37 or other responding stations. Therefore, operational impacts to fire/rescue and emergency medical services are expected to be minor.

Similarly, an increased population may result in increased demand for law enforcement services. As these services are provided internally by VAPD, any increased demand would not strain the capacity of law enforcement services. As population gradually increases, VA would determine whether there may need to be a commensurate increase in VAPD staffing. Therefore, operational impacts to law enforcement are expected to be minor.

Under Alternative C, impacts to parks and recreational facilities would include the partial or total loss of the parks and open spaces considered for new supportive housing construction. The partial or total loss of these areas would result in moderate impacts to the community services previously offered by these parks and recreational facilities. However, VA has identified in Table 3.11-3 other parks within one mile of the WLA Campus that have similar or the same functions as the areas being used to build new Veteran homeless housing units, and could be used by community members including Veterans.

Under Alternative C, the operational impacts to nearby schools are not expected as there would be little to no increase in traffic due to operational function of the WLA Campus, and no off-campus impacts. Similar to construction impacts in 4.11.3.1, Impacts from Construction, the Brentwood School is in close proximity to the newly constructed homeless housing and these operations may result in minor impacts to the Brentwood School's community services.

## 4.11.6 Alternative D (Renovation, Demolition, and New Construction)

## 4.11.6.1 Impacts from Construction

Under Alternative D, there would be a combination of renovations and seismic retrofits of existing buildings, demolition of existing buildings with no replacement construction, demolition and construction of new buildings within existing building site areas, or construction of new buildings on existing parking areas, athletic fields, and vacant lands on the WLA Campus. Prior to construction activities, existing tenants and services would be relocated to other buildings on the WLA Campus.

Alternative D would result in impacts from construction similar to but no greater than those as described for Alternative C, which represents the most impact to community services of the alternatives evaluated. Similar mitigation measures would be implemented to alleviate any potentially adverse effects.

## 4.11.6.2 Impacts from Operations

Operational impacts under Alternative D include an increase in WLA Campus population due to at least 1,622 supportive homeless Veteran housing units, and the renovation, demolition, and/or new construction of buildings or development of vacant lands on campus. Operational impacts to hospitals and clinics are expected to be beneficial as the main hospital and associated medical facilities are upgraded and/or newly constructed to provide state-of-the-art care to Veterans. This increase in population may increase the risk of fire hazards on campus and the need for EMS services, yet the increase is not expected to be significant for LAFD Station 37 or other responding LAFD stations. Similarly, there may potentially be an increase in demand for law enforcement services, which would be mitigated by an increase in law enforcement staff. This increase in staff is not expected to require a newly built facility and therefore is considered minor. Since development occurs on previously vacant land, operational impacts to parks and recreational facilities are expected to be moderate. Nearby schools are not expected to be impacted by operational function of the WLA Campus under Alternative D. However, Brentwood School, which is in close proximity to the locations identified for new construction of supportive housing may experience visual and/or auditory distractions due to newly constructed facilities.

# 4.11.7 Alternative E (No Action)

Under Alternative E, the WLA Campus would remain the same as present day. No construction activities tied to the Proposed Action would occur on the WLA Campus.

## 4.11.7.1 Impacts from Construction

Under Alternative E, there would be no construction-related changes to existing buildings on the WLA Campus. Therefore, no impacts to community services would occur.

## 4.11.7.2 Impacts from Operations

Under Alternative E, the existing buildings and operations would remain the same. The continued operation of the existing WLA Campus under Alternative E would not impact community services.

### 4.12 Solid Waste and Hazardous Materials

This section describes potential impacts to solid waste and hazardous materials associated with the Proposed Action. Hazardous materials that could be transported, used, encountered, or disposed in the construction and operation of each alternative were evaluated to predict the potential effects to human health and the environment. Additionally, the potential for legacy hazardous material contamination at a project site was considered.

### 4.12.1 Evaluation Criteria

For solid waste and hazardous materials, adverse effects would occur if an activity:

- Increases the exposure to a hazardous material or hazardous waste, or directly results in the exposure to the hazardous material or hazardous waste by the public (e.g., patients, staff, pedestrians, contractors, visitors) during transport, use, or disposal;
- Results in the release of hazardous materials or hazardous waste to the environment at harmful levels, requiring remediation, emergency response, or evacuation;
- Exceeds the permitted capacity or intake rates for the solid waste landfills serving the WLA Campus; or
- Results in non-compliance with federal, state, and local environmental regulations and/or VA policy.

#### 4.12.2 Assessment Methods

Waste volumes generated from renovation, demolition, and construction activities for each alternative were estimated using the methodologies provided in FEMA's *Debris Estimating Field Guide* and EPA's *Estimating 2003 Building-Related Construction and Demolition Materials Amounts* and compared to waste disposal capacities of solid waste landfills serving the WLA Campus. For renovation, demolition, and new construction, waste generation rates of 10.4 pounds per ft², 158 pounds per ft², and 4.34 pounds per ft², were applied, respectively (FEMA, 2010) (U.S. Environmental Protection Agency, 2003b). Waste volumes associated with building operations were estimated using CalRecycle's *Estimate Solid Waste Generation Rates* (CalRecycle, 2018).

# 4.12.3 Alternative A (Existing Building Renovations)

Alternative A involves renovations to buildings on the WLA Campus. These renovations would generally affect the interior of those buildings, while some buildings may have renovations to exterior facades and entrances. No buildings would be demolished or require extensive exterior construction activities. During renovations, existing tenants and services would be relocated to other buildings on the WLA Campus.

## 4.12.3.1 Impacts from Construction

### 4.12.3.1.1 Generation of Solid Waste and Hazardous Materials

Renovation activities could result in a temporary, short-term increase to the volume of solid waste generated on site. Under Alternative A, building renovation activities could generate an estimated 20,550 cubic yards of construction waste in addition to normal operational waste generation volumes.

The VA SSPP identifies a diversion target of 50 percent for nonhazardous solid waste and C&D debris (U.S. Department of Veterans Affairs, 2016c). Should this 50 percent target be achieved, an estimated 14,750 total cubic yards of construction waste would be transported to area landfills over the construction period for Alternative A, which is 10 years. Construction waste recycling requirements for private developers are even more stringent at 65 percent per Title 31 of the Los Angeles County Code.

Solid waste from renovation activities may be transferred to the Chiquita Canyon Landfill, Azusa Land Reclamation, or Simi Valley Landfill and Recycling Center. Together, these landfills have the capacity to handle the resulting amount of waste. As of February 2016, there were 15,399,000 cubic yards (Los Angeles County Department of Public Works, 2018c), 28,794,506 cubic yards (Los Angeles County Department of Public Works, 2018d), and 88,300,000 cubic yards (CalRecycle, 2017) of space remaining at each facility, respectively, for a total of 132,493,506 cubic yards of remaining space at all three facilities.

The proposed renovations would likely encounter LBP and asbestos (or ACM), as many of the buildings were built prior to 1978 and 1989 when these materials were first regulated, respectively. For example, Buildings 156 and 157 were constructed in 1923 and are known to contain asbestos. ACM and LBP waste would be abated and managed in accordance with all applicable regulations, such as OSHA, DOT, and TSCA requirements, and disposed appropriately. ACM would be sent to Asuza Land Reclamation, which can accept and manage both friable and non-friable forms of this waste. LBP would likely be transported off site and disposed of by a contracted hazardous waste management company.

Existing building components could also include hazardous materials such as PCBs in lamp ballasts and caulk, and mercury in thermometers, fluorescent lights, and switches. Implementing abatement procedures would minimize the potential for contamination or exposure to hazardous chemicals. Prior to renovation activities, potential sources of hazardous materials would be identified, and specific mitigation, handling, and disposal measures would be implemented throughout the renovation process to ensure contamination does not occur and these materials remain segregated and disposed of properly. Universal wastes, such as batteries, lamps, and electronic wastes, would likely be present in the buildings. Materials that can be recycled or reused would be captured and separated for transport, and any remaining

materials would be properly managed and sent to appropriate disposal facilities. During renovation activities, waste would be disposed of in a manner consistent with federal, state, and local regulations.

There are several buildings that may have special concerns due to their current facility use that may require special disposal procedures and considerations:

- While many WLA Campus buildings are assumed to contain ACM due to their ages, Buildings 156 and 157 specifically have been determined to have a large amount of ACM contamination. ACM encountered during renovations would be abated and managed in accordance with all applicable regulations and sent to Asuza Land Reclamation for disposal.
- Buildings 113, 114, 115, 117, and 337 are currently used for research purposes, and would be
  decommissioned in accordance with American National Standards Institute (ANSI)/American
  Society of Safety Engineers (ASSE) laboratory decommissioning requirements (ANSI/ASSE
  Z9.11-2016).
- Building 13 was previously used a kitchen and cafeteria. Building 300 is currently used as a
  kitchen and nutrition service center. Any resulting oil and grease generated through cooking and
  culinary uses and collected during renovations would be managed and disposed of properly.
  Grease traps and oil storage areas would be cleaned up appropriately in accordance with Los
  Angeles Sanitation BMPs and relevant standard operating procedures.
- Many of the buildings on the WLA Campus are or have been historically used for medical and health care purposes (e.g., Buildings 500, 501, 507). Resulting medical and pharmaceutical waste from building renovations would be collected, managed, and disposed in accordance with the California MWMA (California Health and Safety Code, Division 104, Part 14).
- Building 509 is currently used as a recycling center. Recyclable materials and waste would be
  managed and disposed of properly prior to renovation. During renovations, if there is any
  outdoor storage of waste or recyclables, a SWPPP and BMPs would be implemented to minimize
  potential impacts from stormwater pollution.
- Building 345 currently houses two cyclotrons. During renovations, the cyclotrons would be
  permanently relocated to another research facility on the WLA Campus or transferred to another
  nearby VA research facility. Any radioactive materials contained in the cyclotron vault would be
  collected, managed, and disposed of in accordance with federal, state, and local requirements.

Because most renovation activities under Alternative A would be in building interiors, renovation activities would require limited ground disturbance and are not anticipated to generate excess soils that would otherwise require off-site disposal.

Impacts from renovation activities related to solid waste and hazardous materials would be minor given the ability to dispose of these materials in local landfills and the 50 percent diversion target from the resulting solid waste.

# 4.12.3.1.2 Construction Equipment and Materials

Throughout renovations, activities would likely involve the use of heavy construction equipment, construction vehicles (e.g., company vehicles, forklifts), and generators. Proposed renovation activities and equipment maintenance would require the routine use, transportation, and disposal of hazardous materials such as petroleum products, fuels, adhesives, lubricants, solvents, corrosive liquids, and aerosols. Construction contractors would likely store construction equipment and hazardous materials on site.

To minimize any negative impacts from the use and storage of equipment and associated hazardous materials, hazardous materials brought on site for renovation activities would be handled, stored, and disposed in conformance with all applicable federal, state, and local requirements. Construction personnel handling hazardous waste would complete an initial training course and subsequent annual training per OSHA requirements to ensure proper management. Further, proper equipment maintenance and inspection would reduce the potential of any unintentional spills, leaks, or release impacts from vehicles, operations, and storage. For additional discussion of construction-related stormwater management, see Section 4.5, Hydrology and Water Quality, and Section 4.14, Utilities. Further, hazardous materials would be transported off site in accordance with DOT's requirements in 49 CFR Parts 171-180. Impacts from construction equipment to solid waste and hazardous materials would be minor.

In the event of a release of a hazardous material, the facility would implement their Consolidated Emergency Response/Contingency Plan. Although highly unlikely, if evacuation is deemed necessary following a release, the Plan indicates the WLA Campus is equipped with horns/sirens and would use verbal commands to complete the evacuation (West Los Angeles Veterans Admin GLAHS, 2016).

### 4.12.3.1.3 Worker and Public Health and Safety

Renovation activities may pose a risk to public safety, such as accidental injury. Existing building materials encountered during the renovation activities could include LBP, ACM, PCBs, and fluorescent lights containing mercury vapors. Renovating existing buildings without following proper abatement procedures could expose workers or the community to hazardous building materials. During renovations, worker and public health and safety concerns related to solid waste and hazardous materials would be monitored, and measures would be in place to prevent injury and health concerns. Controls such as physical barriers would be installed to surround areas of renovation to prevent unauthorized access to the worksite and operating equipment. Administrative controls would also be in place to limit the number of hours an employee can work per day, provide employee safety training, and conduct routine safety meetings. Site-specific health and safety plans (HASPs) would be implemented and abided. Further, personal protective equipment (PPE) would be provided to employees to minimize exposure to chemical and physical hazards. Examples of possible PPE include hard hats, gloves, protective footwear, eye protection, protective hearing devices, and fall protection.

Federal hazardous materials guidelines regulate exposure to and disposal of hazardous building materials, including lead, asbestos, PCBs, and mercury. VA would adhere to the regulations and standards for inspection, abatement, exposure, and disposal of these hazardous building materials. Adherence to these requirements would minimize, to the extent required by law, the potential health and environmental

hazards of asbestos, lead, or PCBs in buildings and structures to be renovated. Potential impacts to health and safety from solid waste and hazardous materials would be minor.

## 4.12.3.1.4 ASTs/USTs

As identified previously, Buildings 206, 210, 222, 236, 256, 257, 300, and 501 have nine associated steel double walled ASTs containing 75 to 20,000 gallons of diesel fuel (Table 3.12-1). Buildings 300, 304, and 501 have four associated USTs containing 1,000 to 20,000 gallons of diesel fuel (Table 3.12-2). During renovations, it is anticipated that the existing tanks would stay in place and be reused. Impacts to storage tanks would be minor and short-term, as proper management of the associated tanks would prevent spills, leaks, or releases. Should renovations require closure of an AST or UST, the contents of these tanks would be removed prior to decommissioning and tank closure, and removal would be coordinated with the LAFD and performed in accordance with all federal, state, and local requirements. Any repurposed or new tanks installed as a result of subsequent renovation activities would be built according to all applicable requirements and installation standards.

## 4.12.3.2 Impacts from Operations

After completion of the renovations, solid and hazardous waste generated by residents, employees, and visitors would likely increase with operations under Alternative A due to the change in facility use. It is anticipated the renovations would accommodate a greater number of residents, employees, and visitors and increase the daily use of the buildings. Based on the intended future use of the renovated buildings, an additional estimated 200 tons of solid waste would be generated per year over existing conditions. Chiquita Canyon Landfill, Azusa Land Reclamation, and Simi Valley Landfill and Recycling Center would have sufficient capacity to accept this increase in solid waste generation without adversely affecting the facilities. Each day, these landfills are permitted to receive 6,000 tons, 8,000 tons, and 9,250 tons of solid waste, respectively (Los Angeles County Department of Public Works, 2018c; Los Angeles County Department of Public Works, 2018d; CalRecycle, 2017). This does not consider existing recycling programs on the WLA Campus for cardboard, paper, scrap metal, and other materials, which would reduce the amount of generated waste that would be landfilled.

Ongoing operations would require continuous waste stream management and proper equipment maintenance. Boilers, chillers, and HVAC systems contain refrigerants and aerosols, and their resulting air emissions would require proper management and permitting. Operation of employee golf carts, maintenance vehicles, electrical systems (such as generators and transformers), and other equipment require the use of fuels, antifreeze, lubricants, solvents, acids, and corrosive liquids. Additionally, maintenance of the facilities and grounds could increase the transportation, transfer, and use of pesticides, herbicides, and other hazardous materials. Storage areas for the associated chemicals would be utilized, and proper management and handling of these materials would be followed to decrease the potential of possible spills, releases, or accidental contamination.

The WLA Campus would continue to use on-site dumpsters for the collection of non-hazardous waste. Any outdoor storage of waste or recyclables would be addressed by a SWPPP, and BMPs would be implemented to minimize potential impacts from stormwater pollution. Non-hazardous medical and pharmaceutical waste such as sharps, blood and tissue contaminated bandages, and dressings would be

collected, managed, and disposed in accordance with the California MWMA (California Health and Safety Code, Division 104, Part 14).

#### 4.12.4 Alternative B (Existing Building Demolition)

Alternative B involves full demolition of 33 buildings throughout the WLA Campus. Following demolition, the land previously occupied by these WLA Campus buildings would be returned to naturalized, open green space areas.

#### 4.12.4.1 Impacts from Construction

### 4.12.4.1.1 Generation of Solid Waste and Hazardous Materials

Over the demolition period, a significant amount of solid waste and hazardous material removal would occur. Under Alternative B, the building demolition activities would generate an estimated 299,550 cubic yards of waste over the course of 10 years. If the 50 percent recycling rate targeted by VA is achieved, this would result in 149,775 cubic yards of recyclable materials that would be captured and separated for transport to a recycling or resale facility, and equivalent amount that would be properly managed and sent to appropriate disposal facilities. Construction waste recycling requirements for private developers are even more stringent at 65 percent per Title 31 of the Los Angeles County Code.

The anticipated volume of solid waste generated by demolition could be accommodated by landfills located in the region. Resulting solid waste may be sent to Chiquita Canyon Landfill, Azusa Land Reclamation, and Simi Valley Landfill and Recycling Center. Together, these landfills have the capacity to handle the resulting amount of waste (see Section 4.12.3.1.1, Generation of Solid Waste and Hazardous Materials). Due to the large amount of waste materials resulting from demolition of the buildings, the resulting amount of hazardous and non-hazardous wastes generated could have a measurable impact on landfill capacities. However, because waste generation would occur over several years and potentially sent to multiple landfills, the impact would be considered minor.

Similar to renovation activities in Section 4.12.3.1.1, demolition activities would likely encounter various waste streams requiring special handling, such as LBP, ACM, PCBs, laboratory waste, and medical waste. All wastes would be disposed of in a manner consistent with federal, state, and local regulations.

During demolition, foundations, water and sewer lines, cables and wiring, and associated below grade piping would be removed. Through this process, activities such as excavation and grading would occur and involve the handling and movement of soil. Demolition activities would not likely encounter contaminated soil or buried medical waste as the buildings proposed for demolition are not located within or near the medical waste burial site in the arroyo. However, during excavation, a sampling protocol would be followed to ensure the soil is not contaminated. In the event contaminated soil is encountered or identified as a result of analytical testing, it may undergo treatment or be disposed of as hazardous waste at the nearest hazardous waste landfill, Clean Harbors Buttonwillow, LLC., located in Buttonwillow, CA. The Buttonwillow hazardous waste landfill has a permitted capacity of 10.0 million cubic yards and can treat 100 tons of hazardous waste per hour (Clean Harbors, 2017). Demolition activities are not anticipated to generate excess soils that would otherwise require off-site disposal if uncontaminated.

Overall impacts from generation of solid and hazardous waste during construction are expected to be minor.

Throughout the demolition period, activities would likely involve the use of heavy construction equipment including construction vehicles (e.g., company vehicles, forklifts, cranes), generators, and lighting. Proposed demolition activities and equipment maintenance would require the routine use, transportation, and disposal of hazardous materials such as petroleum products for fuels, adhesives, lubricants, solvents, corrosive liquids, and aerosols. Construction contractors would likely store construction equipment and hazardous materials on site.

To minimize any potential impacts from the use and storage of equipment and associated hazardous materials, hazardous materials brought on site for demolition would be handled, stored, and disposed of in conformance with all applicable federal, state, and local requirements. Construction personnel handling hazardous waste would complete an initial training course and subsequent annual training per OSHA requirements to ensure proper management. Further, proper equipment maintenance and inspection would reduce the potential of any unintentional spills, leaks, or release impacts from vehicles, operations, and storage. For additional discussion of construction-related stormwater management, see Section 4.5, Hydrology and Water Quality, and Section 4.14, Utilities. Further, hazardous materials would be transported off site in accordance with DOT's requirements in 49 CFR Parts 171-180. In the event of a release of a hazardous material, the facility would implement their Consolidated Emergency Response/Contingency Plan (West Los Angeles Veterans Admin GLAHS, 2016). Impacts from construction equipment to solid waste and hazardous materials would likely be minor.

### 4.12.4.1.2 Worker and Public Health and Safety

Demolition activities may pose a risk to public safety, such as accidental injury. Existing building materials encountered during demolition could include LBP, ACM, PCBs, and fluorescent lights containing mercury vapors. Demolishing existing buildings without following proper abatement procedures could expose workers or the community to hazardous building materials. During demolition, worker and public health and safety concerns related to solid waste and hazardous materials would be monitored, and measures would be in place to prevent injury and health concerns. Controls such as physical barriers would be installed surrounding areas of demolition to prevent unauthorized access to the worksite and operating equipment. Administrative controls would also be in place to limit the number of hours an employee can work per day, provide employee safety training, and conduct routine safety meetings. Site-specific HASPs would be implemented and abided. Further, PPE would be provided to employees to minimize exposure to chemical and physical hazards. Examples of PPE include hard hats, gloves, protective footwear, eye protection, protective hearing devices, and fall protection.

Federal hazardous materials guidelines regulate exposure to and disposal of hazardous building materials, including lead, asbestos, PCBs, and mercury. VA would adhere to the regulations and standards for inspection, abatement, exposure, and disposal of these hazardous building materials. Adherence to these requirements would minimize, to the extent required by law, the potential health and environmental hazards of asbestos, lead, or PCBs in buildings and structures to be renovated. Potential impacts to health and safety from solid waste and hazardous materials would be minor.

### 4.12.4.1.3 ASTs/USTs

As depicted in Table 3.12-1, Buildings 206, 210, 222, 236, 256, 257, 300, and 501 have nine associated steel double walled ASTs containing 75 to 20,000 gallons of diesel fuel. Buildings 300, 304, and 501 have four associated USTs containing 1,000 to 20,000 gallons of diesel fuel (Table 3.12-2). These tanks would be permanently closed as a result of Alternative B since they would no longer be needed in support of the buildings. The contents of these tanks would be removed prior to decommissioning and tank closure, and removal would be coordinated with LAFD and performed in accordance with all federal, state, and local requirements.

#### **4.12.4.2 Impacts from Operations**

After completion of the demolition, solid and hazardous waste generation would decrease with operations under Alternative B due to the reduction in buildings and potential loss of occupants and functions. If buildings are demolished and land is restored to naturalized, open grassy areas, regular operations would not occur to generate waste at these facilities. Periodic and scheduled landscape maintenance may require a slight increase in the use of maintenance vehicles, landscaping equipment, and associated hazardous materials such as fuels, lubricants, antifreeze, pesticides, and herbicides. No impacts are expected from operations under Alternative B.

### 4.12.5 Alternative C (Demolition and New Construction)

Alternative C involves full demolition of individual buildings throughout the WLA Campus (as described in Alternative B) with new construction of buildings to support future use activities. Prior to demolition activities, existing tenants and services would be relocated to other buildings on the WLA Campus. Demolished buildings would be replaced with new buildings within the same project footprint. In addition, new construction is proposed on several existing parking areas, athletic fields, and vacant land as part of Alternative C.

#### 4.12.5.1 Impacts from Construction

#### 4.12.5.1.1 Generation of Solid Waste and Hazardous Materials

Impacts for Alternative C on C&D debris generation would be greater than those described for Alternative B. In addition to 299,550 cubic yards of demolition-related waste from demolition of the 33 targeted buildings, an estimated 14,835 cubic yards of construction-related waste would be generated as a result of construction activities. Therefore, a total of 314,385 cubic yards of C&D waste would be generated over the course of 10 years. All waste streams would be properly managed in accordance with all relevant laws, regulations, and directives to ensure there are no releases of solid waste and hazardous materials to the environment and contamination does not occur.

As described for Alternatives A and B, the VA SSPP identifies a diversion target of 50 percent for nonhazardous solid waste and C&D debris (U.S. Department of Veterans Affairs, 2016c). Should this 50 percent target be achieved, an estimated 157,195 cubic yards of C&D debris would be transported to landfills over the demolition and construction period for Alternative C. Construction waste recycling requirements for private developers are even more stringent at 65 percent per Title 31 of the Los Angeles

County Code. Local landfills that accept C&D debris have the capacity to handle the resulting amount of waste (see Section 4.12.3.1.1. Generation of Solid Waste and Hazardous Materials).

As detailed for Alternatives A and B, there are several buildings on the WLA Campus that may have special concerns due to their current facility use. Waste streams requiring special handling would include LBP, ACM, PCBs, laboratory waste, and medical waste. All wastes would be disposed of in a manner consistent with federal, state, and local regulations.

During demolition, foundations, water and sewer lines, cables and wiring, and associated below grade piping would be removed. Through this process, activities such as excavation and grading would occur and involve the handling and movement of soil. In addition, construction and new development on parking areas, athletic fields, and vacant land would require ground disturbance and may generate excess soil. For Alternative C, it is estimated that there would 281,205 cubic yards of soil disturbed from grading, trenching, backfilling, and/or excavating. Excavated soil identified as clean fill may be utilized as site fill material elsewhere on the WLA Campus to meet project demands. In the event clean fill is generated in excess quantities, the LACOMAX website may be used for advertising small volumes of soil for use as clean fill outside the WLA Campus (Los Angeles County Department of Public Works, n.d.). If the clean fill is sent off site for disposal, analytical data demonstrating the soil is free of contamination would be provided to the landfill prior to delivery. Chiquita Canyon Landfill, Azusa Land Reclamation, and Simi Valley Landfill and Recycling Center each accept clean soil and have adequate capacity remaining for soil disposal (Waste Connections, Inc., 2016) (Waste Management, 2014a) (Waste Management, 2014b).

C&D activities would not likely encounter contaminated soil or buried medical waste as the buildings proposed for demolition or sites proposed for new construction are not located within or near the medical waste burial site in the arroyo. However, during excavation, a sampling protocol would be followed to ensure the soil is not contaminated. In the event contaminated soil is encountered or identified as a result of analytical testing, it may undergo treatment or be disposed of as hazardous waste at the nearest hazardous waste landfill, Clean Harbors Buttonwillow, LLC., located in Buttonwillow, CA. The Buttonwillow hazardous waste landfill has a permitted capacity of 10.0 million cubic yards and can treat 100 tons of hazardous waste per hour (Clean Harbors, 2017).

Impacts from the solid waste and hazardous material generated from demolition and construction would be minor.

## 4.12.5.1.2 Construction Equipment and Materials

Throughout the demolition and construction period, activities would likely involve the use of heavy construction equipment including construction vehicles (e.g., company vehicles, forklifts, cranes); generators, and lighting. Proposed activities and equipment maintenance would require the routine use, transportation, and disposal of hazardous materials such as petroleum products for fuels, adhesives, lubricants, solvents, corrosive liquids, and aerosols. Construction contractors would likely store construction equipment and hazardous materials on site.

To minimize any potential impacts from the use and storage of equipment and associated hazardous materials, hazardous materials brought on site for demolition and construction activities would be

handled, stored, and disposed in conformance with all applicable federal, state, and local requirements. Construction personnel handling hazardous waste would complete an initial training course and subsequent annual training per OSHA requirements to ensure proper management. Further, proper equipment maintenance and inspection would reduce the potential for any unintentional spills, leaks, or release impacts from vehicles, operations, and storage. For additional discussion of construction-related stormwater management, see Section 4.5, Hydrology and Water Quality, and Section 4.14, Utilities. Further, hazardous materials would be transported off site in accordance with DOT's requirements in 49 CFR Parts 171-180. Impacts from construction equipment to solid waste and hazardous materials would likely be minor.

In the event of a release of a hazardous material or hazardous waste, the facility will implement their Consolidated Emergency Response/Contingency Plan. Although highly unlikely, if evacuation is deemed necessary following a release, the Plan indicates the WLA Campus is equipped with horns/sirens and will use verbal commands to complete the evacuation (West Los Angeles Veterans Admin GLAHS, 2016).

#### 4.12.5.1.3 Worker and Public Health and Safety

Demolition and construction activities may pose a risk to public safety, such as accidental injury. Existing building materials encountered during demolition could include LBP, ACM, PCBs, and fluorescent lights containing mercury vapors. Demolishing existing buildings without following proper abatement procedures could expose workers or the community to hazardous building materials. During demolition and construction, worker and public health and safety concerns related to solid waste and hazardous materials would be monitored, and measures would be in place to prevent injury and health concerns. Controls such as physical barriers would be installed surrounding areas of renovation to prevent unauthorized access to the worksite and operating equipment. Administrative controls would also be in place to limit the number of hours an employee can work per day, provide employee safety training, and conduct routine safety meetings. Site-specific HASPs would be implemented and abided. Further, PPE would be provided to employees to minimize exposure to chemical and physical hazards. Examples of possible PPE include hard hats, gloves, footwear, eye protection, protective hearing devices, and fall protection.

Federal hazardous materials guidelines regulate exposure to and disposal of hazardous building materials, including lead, asbestos, PCBs, and mercury. VA would adhere to the regulations and standards for inspection, abatement, exposure, and disposal of these hazardous building materials. Adherence to these requirements would minimize, to the extent required by law, the potential health and environmental hazards of asbestos, lead, or PCBs in buildings and structures to be renovated. Potential impacts to health and safety from solid waste and hazardous materials would be minor.

#### 4.12.5.1.4 ASTs/USTs

As identified previously, Buildings 206, 210, 222, 236, 256, 257, 300, and 501 have nine associated steel double walled ASTs containing 75 to 20,000 gallons of diesel fuel (Table 3.12-1). Buildings 300, 304, and 501 have four associated USTs containing 1,000 to 20,000 gallons of diesel fuel (Table 3.12-2). During closure of ASTs and USTs, the contents of these tanks would be removed prior to decommissioning and tank closure, and removal would be coordinated with LAFD and performed in accordance with all federal, state, and local requirements. If a building would be reconstructed on the

same footprint, it is possible that an existing tank of sufficient integrity would stay in place and be reused. Impacts to storage tanks would be minor and short-term, as proper management of the associated tanks would prevent spills, leaks, or releases through decommissioning and removal. After demolition, any repurposed or new tanks installed as a result of subsequent construction activities would be built according to all applicable requirements and installation standards.

#### 4.12.5.2 Impacts from Operations

The construction of new buildings to replace demolished buildings and the addition of a new medical center, associated health care facilities, and research facility would likely result in an increase to solid, hazardous, and medical wastes during operations. New construction would increase the number and total square footage of buildings on the WLA Campus, and operations at these facilities would also increase. The increased use of WLA Campus buildings as residential space, health care facilities, research facilities, town center, and multi-use facilities would result in an estimated annual increase of 15,565 tons of solid waste over existing conditions. The additional residents would contribute an estimated increase of 2,400 tons per year of solid waste, while the increase from health care facilities would contribute an estimated increase of 2,665 tons per year. The remaining increase is a result of new construction of additional town center buildings and a 200,000 ft<sup>2</sup> research facility. Chiquita Canyon Landfill, Azusa Land Reclamation, and Simi Valley Landfill and Recycling Center would have sufficient capacity to accept this increase in solid waste generation without adversely affecting the facilities. Each day, these landfills are permitted to receive 6,000 tons, 8,000 tons, and 9,250 tons of solid waste, respectively (Los Angeles County Department of Public Works, 2018c; Los Angeles County Department of Public Works, 2018d; CalRecycle, 2017). This does not consider existing recycling programs on the WLA Campus for cardboard, paper, scrap metal, and other materials, which would reduce the amount of generated waste that would actually be landfilled.

Ongoing operations would require continuous waste stream management and proper equipment maintenance. Boilers, chillers, and HVAC systems contain refrigerants and aerosols, and their resulting air emissions would require proper management and permitting. O&M vehicles, electrical systems (such as generators and transformers), and other equipment would require the use of fuels, antifreeze, lubricants, solvents, acids, and corrosive liquids. Additionally, maintenance of the facilities and grounds could increase the transport, transfer, and use of pesticides, herbicides, and other hazardous materials. Storage areas for the associated chemicals would be created, and proper management and handling of these materials would be followed to decrease the potential of spills, releases, or accidental contamination.

Municipal waste generated by residents, employees, patients, and visitors would increase with operations of the new buildings and structures. The WLA Campus would continue to have on-site dumpsters for collection of non-hazardous waste. Any outdoor storage of waste or recyclables would be addressed by a SWPPP and BMPs would be implemented to minimize potential impacts from stormwater pollution. Non-hazardous medical and pharmaceutical waste such as sharps, blood and tissue contaminated bandages, and dressings would be collected, managed, and disposed in accordance with the California MWMA (California Health and Safety Code, Division 104, Part 14).

Facility operations would result in minor impacts due to the increase in solid waste and hazardous materials generated and requiring disposal on the WLA Campus.

### 4.12.6 Alternative D (Renovation, Demolition, and New Construction)

Under Alternative D, there would be a combination of renovations of existing buildings on the WLA Campus, demolition of existing buildings with no replacement construction, demolition and construction of new buildings within existing building footprints, or construction of new buildings on existing parking areas, athletic fields, and vacant lands on the WLA Campus.

#### 4.12.6.1 Impacts from Construction

#### 4.12.6.1.1 Generation of Solid Waste and Hazardous Materials

Using the assumption that all 33 targeted buildings would be demolished under Alternative D, demolition activities are estimated to generate 299,550 cubic yards of waste. An additional estimated 14,835 cubic yards of construction-related waste would be generated as a result of construction activities for new buildings replacing demolished buildings as well as additional new construction. However, the amount of waste generated and disposed is likely to be less than these projected amounts, since under Alternative D, some of the 33 buildings would be renovated rather than demolished, resulting in lower waste generation amounts.

As described for Alternatives A, B, and C, the VA SSPP identifies a diversion target of 50 percent for nonhazardous solid waste and C&D debris (U.S. Department of Veterans Affairs, 2016c). Should this 50 percent target be achieved, an estimated 157,195 cubic yards of construction waste would be transported to landfills over the demolition and construction period for Alternative D. Construction waste recycling requirements for private developers are even more stringent at 65 percent per Title 31 of the Los Angeles County Code. Simi Valley Landfill, Chiquita Canyon Landfill, and Azusa Land Reclamation, together have the capacity to handle the resulting amount of waste (CalRecycle, 2017). All wastes generated from construction activities would be handled in compliance with applicable federal, state, and local regulations.

Similar to Alternative C, construction and new development on parking areas, athletic fields, and vacant land would require ground disturbance and may generate excess soil. Excavated soil identified as clean fill may be utilized as site fill material elsewhere on the WLA Campus to meet project demands or recycled or disposed off site. C&D activities would not likely encounter contaminated soil or buried medical waste as the buildings proposed for demolition or sites proposed for new construction are not located within or near the medical waste burial site in the arroyo. However, during excavation, a sampling protocol would be followed to ensure the soil is not contaminated. In the event contaminated soil is encountered or identified as a result of analytical testing, it may undergo treatment or be disposed of as hazardous waste at the nearest hazardous waste landfill, Clean Harbors Buttonwillow, LLC., located in Buttonwillow, CA. The Buttonwillow hazardous waste landfill has a permitted capacity of 10.0 million cubic yards and can treat 100 tons of hazardous waste per hour (Clean Harbors, 2017).

Overall, impacts from waste generation during construction are expected to be minor.

### 4.12.6.1.2 Construction Equipment and Materials

Construction equipment used for Alternative D would be similar to that described for Alternative C. To minimize any potential impacts from the use and storage of equipment and associated hazardous materials, hazardous materials brought on site for construction activities would be handled, stored, and disposed of correctly and in conformance with all applicable federal, state, and local requirements. Construction personnel handling hazardous waste would complete an initial training course and subsequent annual training per OSHA requirements to ensure proper management. Further, proper equipment maintenance and inspection would reduce the potential of any unintentional releases. For additional discussion of construction-related stormwater management, see Section 4.5, Hydrology and Water Quality, and Section 4.14, Utilities. Further, hazardous materials would be transported off site in accordance with DOT's requirements in 49 CFR Parts 171-180. Impacts from operating construction equipment to solid waste and hazardous materials would likely be minor.

### 4.12.6.1.3 Worker and Public Health and Safety

Demolition and construction activities under Alternative D would be similar to those described for Alternative C. Occupational injury impacts are possible, but by using proper worker safety procedures (Mitigation Measure CS-2: *Manage Worker Safety, Fire, and Security Risks at Construction Sites*), any potential impacts to health and safety from solid waste and hazardous materials would likely be minor and short-term.

## 4.12.6.1.4 ASTs/USTs

Demolition and construction activities for ASTs and USTs under Alternative D would be the same as those described for Alternative C. During closure of ASTs and USTs, the contents of these tanks would be removed prior to decommissioning and tank closure, and removal would be coordinated with the LAFD and performed in accordance with all federal, state, and local requirements. If a building would be reconstructed on the same footprint, it is possible that an existing tank of sufficient integrity would stay in place and be reused. Impacts to storage tanks would be minor and short-term, as proper management of the associated tanks would prevent spills, leaks, or releases through decommissioning and removal. After demolition, any repurposed or new tanks installed as a result of subsequent construction activities would be built according to all applicable requirements and installation standards.

#### 4.12.6.2 Impacts from Operations

Alternative D involves renovations, demolition, and/or construction activities to WLA Campus facilities. The effects of operating these newly renovated, demolished, or constructed buildings under Alternative D would be similar to those described for Alternative C. The planned and future use of the WLA Campus buildings would result in minor changes to solid waste and hazardous materials.

Similar to Alternative C, new construction would expand the facilities of the WLA Campus, and operation of the facilities would increase the generation of multiple waste streams. Solid waste, medical waste, and hazardous waste generation would likely see a minor increase due to the higher number of residents, employees, and patients. Like Alternative C, for Alternative D, it is estimated an additional 15,565 tons of solid waste would be generated over existing conditions as a result of the change of facility

use and additional buildings. The increase of residents would contribute an estimated increase of 2,400 tons per year of solid waste, while the increase from health care facilities would contribute an estimated increase of 2,665 tons per year. The remaining increase is a result of new construction of additional town center buildings and a 200,000 ft<sup>2</sup> research facility. Chiquita Canyon Landfill, Azusa Land Reclamation, and Simi Valley Landfill and Recycling Center would have sufficient capacity to accept this increase in solid waste generation without adversely affecting the facilities. This does not consider existing recycling programs on the WLA Campus for cardboard, paper, scrap metal, and other materials, which would reduce the amount of generated waste that would actually be landfilled.

Ongoing operations would require continuous waste stream management and proper equipment maintenance. Boilers, chillers, and HVAC systems contain refrigerants and aerosols, and their resulting air emissions would require proper management and permitting. O&M vehicles, electrical systems (such as generators and transformers), and other equipment would require the use of fuels, antifreeze, lubricants, solvents, acids, and corrosive liquids. Additionally, maintenance of the facilities and grounds could increase the transport, transfer, and use of pesticides, herbicides, and other hazardous materials. Storage areas for the associated chemicals would be created, and proper management and handling of these materials would be followed to decrease the potential of spills, releases, or accidental contamination.

Municipal waste generated by residents, employees, patients, and visitors would increase with operations of the new buildings and structures. The WLA Campus would continue to have on-site dumpsters for collection of non-hazardous waste. Any outdoor storage of waste or recyclables would be addressed by a SWPPP and BMPs would be implemented to minimize potential impacts from stormwater pollution. Non-hazardous medical and pharmaceutical waste such as sharps, blood and tissue contaminated bandages, and dressings would be collected, managed, and disposed in accordance with the California MWMA (California Health and Safety Code, Division 104, Part 14).

Facility operations would result in minor impacts due to the increase in solid waste and hazardous materials generated and requiring disposal on the WLA Campus.

## 4.12.7 Alternative E (No Action)

Under Alternative E, the WLA Campus would remain the same as present day. No construction activities tied to the Proposed Action would occur on the WLA Campus.

#### 4.12.7.1 Impacts from Construction

Under Alternative E, there would be no renovations, retrofits, new construction, or demolition to existing buildings on the WLA Campus. Therefore, no construction-related impacts on solid waste and hazardous materials would occur as a result of Alternative E.

#### 4.12.7.2 Impacts from Operations

Under Alternative E, there would be no change in solid waste and hazardous materials on the WLA Campus as the existing buildings and operations would remain the same as present day. No new operational changes of existing uses would occur. Therefore, no impacts on the WLA Campus would

occur. The continued operation of the existing WLA Campus under Alternative E would not impact solid waste and hazardous materials.

### 4.13 Transportation and Traffic

This section summarizes the impacts of each alternative on transportation and traffic related matters, including traffic, circulation, parking, transit, pedestrian, and bicycle activities at the WLA Campus. A comprehensive transportation impact analysis (TIA) for the WLA Campus was prepared in August 2018 (Crain & Associates, 2018).

#### 4.13.1 Evaluation Criteria

Transportation and traffic impacts from the Proposed Action were evaluated quantitatively by comparing project-related impacts to baseline conditions without the project, as follows:

- A proposed project would normally have a significant impact on intersection capacity if the project traffic causes an increase in the volume-to-capacity (V/C) ratio on the intersection operating condition after the addition of project traffic of one of the following:
  - o V/C ratio increase >0.040 if final LOS is C
  - o V/C ratio increase >0.020 if final LOS is D
  - o V/C ratio increase >0.010 if final LOS is E or F
- Due to issues with upstream blockages, intersections along Santa Monica Boulevard, Wilshire Boulevard, Sunset Boulevard, and Olympic Boulevard were evaluated using a stricter significance impact threshold. A project-related V/C increase equal to or greater than 0.01 was applied regardless of LOS.
- A proposed project would normally have a significant street segment impact if project traffic increases the average daily traffic (ADT) volume on a local residential street in an amount equal to or greater than the following:
  - o ADT increase ≥ 120 if final ADT\* <999
  - o ADT increase >12 percent if final ADT\* ≥1,000 and <1,999
  - o ADT increase >10 percent if final ADT\* ≥2,000 and <2,999
  - o ADT increase >8 percent if final ADT\*  $\geq$ 3,000
- A project would normally have a significant freeway capacity impact if:
  - Peak hour trips would result in a 1 percent or more increase to the freeway mainline capacity of a freeway segment operating at LOS E or F (based on an assumed capacity of 2,000 vehicles per hour per lane); or
  - Peak hour trips would result in a 2 percent or more increase to the freeway mainline capacity of a freeway segment operating at LOS D (based on an assumed capacity of 2,000 vehicles per hour per lane); or

- Peak hour trips would result in a 1 percent or more increase to the capacity of a freeway offramp operating at LOS E or F (based on an assumed ramp capacity of 850 vehicles per hour per lane); or
- Peak hour trips would result in a 2 percent or more increase to the capacity of a freeway offramp operating at LOS D (based on an assumed ramp capacity of 850 vehicles per hour per lane.

#### 4.13.2 Assessment Method

As described in Section 3.13, a TIA was conducted to analyze the traffic conditions and project impacts for a study area of approximately 1.5-mile radius area surrounding the WLA Campus. The study encompassed 55 study intersections: 47 signalized intersections within the City of Los Angeles (including one intersection shared with the City of Santa Monica), and eight study intersections located within the WLA Campus. The study also included 22 roadway segments were analyzed, including 12 residential roadway segments that represent residential streets closest to the WLA Campus and 10 internal roadway segments located within the WLA Campus (Crain & Associates, 2018).

The TIA evaluated the following four scenarios:

- Existing (2017) Conditions: Defined as the traffic volumes, roadways and intersection configurations and controls that currently exist in the year 2017; it does not include the addition of traffic that would be generated by a PEIS alternative. Ambient and related project traffic growth, and any future roadway or infrastructure improvements (other than those directly at the WLA Campus), were not included in this analysis, as this analysis is of the existing condition for the year 2017.
- Existing (2017) Plus Project Conditions: Defined as the traffic volumes, roadways and intersection configurations and controls that currently exist in the year 2017, and the addition of traffic that would be generated by a PEIS alternative. Ambient and related project traffic growth, and any future roadway or infrastructure improvements (other than those directly at the WLA Campus), were not included in this analysis, as this analysis is of the existing condition for the year 2017.
- <u>Future (2029) Without Project Conditions</u>: Defined as the traffic volumes, roadways and intersection configurations and controls that currently exist but are adjusted for ambient and related project traffic growth, and any future roadway or infrastructure improvements (other than those directly at the WLA Campus in the year 2017).
- Future (2029) With Project Conditions: Defined by as the traffic volumes, roadways and intersection configurations and controls that currently exist but are adjusted for the addition of traffic that would be generated by a PEIS Alternative, ambient and related project traffic growth, and any future roadway or infrastructure improvements (other than those directly at the WLA Campus in the year 2017).

The traffic forecasting methodologies used to determine the project trip generation, the geographic distribution of project trips, and the project trips that were assigned to specific roadways and study intersections are described below.

#### 4.13.2.1 Project Traffic Generation

To estimate the project trip generation associated with the proposed changes on the WLA Campus, trip generation rates from the Institute of Transportation Engineers (ITE) *Trip Generation Manual*, 10<sup>th</sup> *Edition* were used for the calculation of daily, a.m. and p.m. peak-hour trips.

One exception was for supportive housing. Since a large component of the proposed project is the development of supportive housing on the North Campus, a more in-depth review of the trip generation rates was conducted. The supportive housing trip generation assessment included collecting empirical data for comparison with existing data sources. Four supportive housing sites that are similar in nature to the WLA Campus' future residential uses were surveyed to establish trip generation rates that would best reflect this land use. The four sites assessed included Path Villas at Del Rey, Villas at Gower, LA Kretz Villa Apartments, and Vermont Villas. The sites were surveyed on Thursday, November 2, 2017 from 7:00 a.m. to 10:00 a.m. and 3:00 p.m. to 6:00 p.m. to account for vehicles entering and exiting the site. These empirical trip generation rates were compared to both the ITE trip generation rates for Congregate Care Facility (ITE 253), which is the most representative land use, and LADOT trip generation rates for supportive housing from the LADOT Transportation Impact Study Guidelines (December 2016). The empirical rates that were collected specifically for this study had the lowest trip rates when compared to ITE, with the highest rates, and LADOT, with the middle rates. LADOT rates were used for this analysis since they best represent similar local uses. With the increase in supportive housing uses, the proposed project will increase the residential population. This will result in internal project trips by North Campus residents to access the various VA services within the WLA Campus. The following reductions in daily vehicle trips have been incorporated to properly reflect transportation-related features and operations for the WLA Campus:

• Ten percent of the residential users on the North Campus would travel to the South Campus for work or medical purposes, whereas the kitchen on the South Campus site would mainly serve residents, patients, and staff already on the South Campus (90 percent).

The WLA Campus is readily accessible to public transit, there are VA shuttles and vans circulating throughout the WLA Campus, and the future Metro Purple Line Westwood/VA Hospital Station is planned to be in operation by year 2026. Therefore, applicable transit credit was incorporated based on the location of the building/facility as follows:

- For buildings north of Pershing Avenue/Constitution Avenue, a five percent transit/walkin/bicycle credit was applied; and
- For buildings south of Pershing Avenue/Constitution Avenue, including all of the South Campus, a 15 percent transit/walk-in/bicycle credit was applied.

#### 4.13.2.2 Future Conditions Forecast

The future traffic conditions are forecasted by incorporating traffic growth from two sources. One source is the ambient growth in traffic, which reflects increases in traffic due to regional growth and development outside the study area. The other source is traffic attributable to projects in the vicinity of the study area that are proposed, approved, or under construction, commonly referred to as "Related Projects." The combined traffic volume increases from these two sources provided the basis for the analysis of the "Future Without Project" condition. Project traffic was then analyzed as an incremental addition to the Future Without Project traffic volumes, forming the traffic volumes for the "Future With Project" condition.

As a first step, the model developed future year 2029 conditions to obtain the cumulative growth from which the annual rate was derived and projected onto the existing traffic counts. The model contained a 2008 base year and a 2035 future year. This section outlines the procedures that were developed to translate the Model assumption years to the years used in this study. An individual growth rate was developed for each intersection. The growth rate was based on a comparison of:

- a) The volumes entering the intersection via the segments ending at the intersection for the Future (2035) "Without Project" scenario in the model, and
- b) The volumes for those same segments for the Existing (2008) scenario in the model.

The total growth ratio was divided by the 27-year period (2035-2008) to determine the annual growth rate. That annual growth rate was then multiplied by the number of years between the Existing (2017) counts and the Future (2029) conditions (total of 12 years). It should be noted that the development of an individual growth rate for each intersection based on an area-specific model is more rigorous than the standard approach for generating ambient growth. The standard approach uses the same growth factor for all intersections and bases that growth factor on the publicly available results for the study area portion of a county or region-wide model, such as the CMP or RTP/SCS model.

As part of the development of the future traffic conditions, related projects located within the study area were reviewed. For related projects that were considered outside of the model growth projections, these trips were added to the Future Without Project conditions. Each related project was assumed to be constructed and occupied during the WLA Campus project buildout timeline. A total of 49 related projects were identified in the cities of Los Angeles and Santa Monica. Of these projects, a total of 14 related projects were determined to be within the model growth projections. Thus, trips for these projects were not considered as a part of the related project volumes.

Future traffic conditions in the study area also take into account anticipated transportation improvements to the WLA Campus area. The analysis examined any future improvements that are anticipated for the study area as provided in the WLA TIMP, City of Los Angeles *Mobility Plan 2035*, City of Los Angeles Bureau of Engineering project list, and Santa Monica Land Use and Circulation Element.

The WLA TIMP update includes converting existing mixed flow vehicle lanes (e.g., allowing use by through and turning automobiles, transit vehicles and bicycles) to special use lanes (e.g., no longer allowing through automobiles). In the future year analysis, it was assumed that the WLA TIMP update

was implemented by year 2029, although no unfunded capacity increases were assumed. Additionally, bicycle improvements have been incorporated into the analysis. No potential freeway changes have been identified as reasonably foreseeable before project completion.

The WLA TIMP update identifies several bus transit improvements to be implemented in the study area. These improvements include curb-running bus-only lanes on Santa Monica Boulevard and an extension of Rapid bus service along Olympic Boulevard from Century City to Westwood Boulevard. The WLA TIMP also mentions a potential center-running Bus Rapid Transit (BRT) line on Sepulveda Boulevard between Wilshire Boulevard and the 96<sup>th</sup> Street Transit Station. This project is excluded from the analysis of the future roadway conditions because 1) LA Metro has yet to decide between BRT, light rail, and other transit options for the Sepulveda Corridor, 2) there is currently no reliable timeline for the completion of this project, and 3) fundamental design and engineering details (which will greatly influence lane configuration changes) have yet to be produced for this project.

Operation of the new Purple Line Westwood/VA Hospital Station, which is expected to come on line in 2026, is also included as part of future conditions. The Purple Line extension project is further described in Section 3.16, Other Past, Present, and Reasonably Foreseeable Actions.

### 4.13.3 Alternative A (Existing Building Renovations)

Alternative A involves the renovation of 33 buildings across the WLA Campus. There would be no expansion of existing facilities or new construction. Once renovated, the buildings on the South Campus that primarily serve health care functions would return to health care uses. Most of the buildings on the North Campus, which currently serve a variety of administrative, health care, and research functions would change function to become supportive housing for approximately 821 homeless Veterans.

#### 4.13.3.1 Impacts from Construction

Construction activities related to Alternative A could potentially create traffic impacts to the surrounding area from an increase in truck traffic (export or import of fill materials and delivery of construction materials) and an increase in automobile traffic from construction workers.

A detailed site construction plan has not been developed as the construction schedule will be implemented in response to evolving demands. Construction access to and from the WLA Campus will likely be provided via the following access points:

- Constitution Avenue west of Sepulveda Boulevard
- Bonsall Avenue north of the Wilshire Boulevard westbound on- and off-ramps
- Bonsall Avenue south of the Wilshire Boulevard eastbound on- and off-ramps
- Sawtelle Boulevard north of Ohio Avenue
- Eisenhower gate may be provided as an alternative access for construction vehicles only (the gate is currently closed for vehicular traffic)
- Construction trucks will not utilize the closed Gorham/Bringham gate

Due to the proximity of the WLA Campus to the I-405 and being located north and south of Wilshire Boulevard, which are both major haul routes, users of the area roadway network could experience the effects of construction-related traffic during some periods. Potential impacts on traffic conditions

associated with construction activities are typically considered short-term adverse impacts but could be significant. To mitigate impacts from construction traffic, VA would implement Mitigation Measure TT-4, *Implement Construction Management Plan*, as described in Chapter 6, Mitigation, Monitoring, Minimization, and Best Practices of this PEIS.

#### 4.13.3.2 Impacts from Operations

The 33 buildings to be renovated under Alternative A total approximately 1.75 million ft² and are located within three distinct planning areas: 1) North Campus Redevelopment Zone, 2) VA Operations, and 3) Medical Center. While the functions of the Medical Center and VA operations buildings are expected to remain the same after renovation, it is anticipated that the majority of the North Campus Redevelopment Zone will experience a change in use for 687,000 building ft² (equal to 39 percent of the total building square footage) to provide up to 821 new supportive housing units for homeless Veterans. Within the North Campus Redevelopment Zone, existing land uses are distributed by building square footage in the following manner: research and development (27 percent), vacant buildings (22 percent), general office (30 percent), medical office (12 percent), and general light industrial (9 percent).

Trip generation rates for residential land uses are significantly lower than those of the existing land uses, as described in more detail in Table 4.13-1. Therefore, future traffic conditions under Alternative A are not expected to the affected by the proposed renovations and would rather only be affected by ambient growth and other projects in the area. To illustrate future traffic conditions under Alternative A, this PEIS therefore uses the "Future (2029) Without Project" scenario from the TIA. This scenario was considered to be similar to, and more conservative than, the Alternative A conditions.

Table 4.13-1. Changes in Land Use for North Campus Redevelopment Zone and Projected Changes in Trip Generation

	Existing (	Conditions	Future Co	onditions	
Land Use	Building Ft <sup>2</sup>	Gross Vehicle Trips*	Building Ft <sup>2</sup>	Gross Vehicle Trips*	
Research & Development Center	188,346	2,121	0	0	
Vacant	153,718	0	0	0	
General Office	203,866	1,812	0	0	
Medical Office	81,751	2,845	0	0	
General Light Industrial	59,195	294	0	0	
Recreational Community Center	0	0	22,266	641	
Supportive Housing	0	0	664,610	1,043	
Total	686,876	7,072	686,876	1,684	
As Percentage	100.0%	100.0%	100.0%	23.8%	

<sup>\*</sup> Gross Vehicle Trips equal to the total vehicle trips prior to transit and internal trip credits.

Source: (Crain & Associates, 2018)

### **4.13.3.2.1 Trip Generation**

Under Alternative A, there will be no increase in the number of net daily trips with current daily vehicle trips equal to 27,398, including 2,217 trips (1,723 inbound/494 outbound) trips during the a.m. peak hour and 2,657 (730 inbound/1,927 outbound) during the p.m. peak hour. Reductions in daily vehicle trips have been incorporated to properly reflect transportation-related features and operations for the WLA Campus as describe in Section 4.13.3.2. Table 4.13-2 shows a summary for Alternative A trip generation.

Table 4.13-2. Future (2029) Trip Generation Under Alternative A

			Ve	hicle Trips	5		
		AN	l Peak F	lour	P	M Peak I	Hour
	Daily	I/B	O/B	Total	I/B	O/B	Total
North Campus							
Future Uses	8,249	548	121	669	185	588	773
Internal Trips	0	0	0	0	0	0	0
Transit Credit	(390)	(16)	(4)	(20)	(4)	(18)	(22)
Transit Credit	(283)	(22)	(5)	(27)	(8)	(23)	(31)
Total	7,576	510	112	622	173	547	720
South Campus							
Future Uses	23,320	1,427	449	1,876	655	1,624	2,279
Internal Trips	0	0	0	0	0	0	0
Transit Credit	(3,498)	(214)	(67)	(281)	(98)	(244)	(342)
Total	19,822	1,213	382	1,595	557	1,380	1,937
Summary							
North Campus	7,576	510	112	622	173	547	720
South Campus	19,822	1,213	382	1,595	557	1,380	1,937
Total	27,398	1,723	494	2,217	730	1,927	2,657
Net Project Trips	Net Project Trips						
Overall Existing Trips	27,398	1,723	494	2,217	730	1,927	2,657
Overall Future Trips	27,398	1,723	494	2,217	730	1,927	2,657
Overall Net Project Trips	0	0	0	0	0	0	0

Source: (Crain & Associates, 2018)

#### 4.13.3.2.2 Traffic Conditions Level of Service

Under Alternative A (using the Future (2029) Without Project scenario), 38 external study intersections are expected to operate at level of service (LOS) D or better during both weekday a.m. and p.m. peak hours. The remaining nine intersections (numbers 2, 16, 29, 30, 34, 36, 39, 40, and 45, which are shown in bold in Table 4.13-3) are expected to operate at LOS E or worse during one or both weekday a.m. and p.m. peak hours. For the study intersections within the WLA Campus, all eight intersections are expected to operate at LOS D or better during the weekday a.m. and p.m. peak hours (Table 4.13-3). The worsening conditions for these nine intersections are due solely to the changes in future conditions and is

not created by Alternative A related traffic. Therefore, no mitigation measures are proposed for Alternative A.

**Table 4.13-3. Traffic LOS Under Alternative A** 

No.	Intersection	Peak Hour	Existing	(2017) Co Existing	nditions		Future (2029) Conditions Without Project			
		lioui	V/C	Delay	LOS	V/C	Delay	LOS		
1	Centinela Avenue & A/B	AM	0.450	6.0	Α	0.485	5.9	Α		
	Wilshire Boulevard	PM	0.567	9.6	Α	0.613	9.6	B*		
2	Bundy Drive & <sup>B</sup>	AM	0.799	-	С	1.136	-	F		
	Wilshire Boulevard	PM	0.780	-	С	1.139	-	F		
3	Bundy Drive & <sup>B</sup>	AM	0.668	-	В	0.826	-	D		
	Santa Monica Boulevard	PM	0.734	-	С	0.883	-	D		
4	Brockton Avenue & B	AM	0.465	-	Α	0.518	-	Α		
	Wilshire Boulevard	PM	0.427	-	Α	0.489	-	Α		
5	Brockton Avenue & B	AM	0.429	-	Α	0.699	-	В		
	Santa Monica Boulevard	PM	0.450	-	Α	0.709	-	С		
6	Westgate Avenue & B	AM	0.439	-	Α	0.505	-	Α		
	Wilshire Boulevard	PM	0.399	-	Α	0.463	-	Α		
7	Westgate Avenue & B	AM	0.463	-	Α	0.773	-	С		
	Santa Monica Boulevard	PM	0.487	-	Α	0.727	-	C		
8	Granville Avenue & B	AM	0.435	-	Α	0.496	-	A		
	Wilshire Boulevard	PM	0.401	-	Α	0.456	-	Α		
9	Barrington Place & B	AM	0.775	-	С	0.855	-	D		
	Sunset Boulevard	PM	0.661	-	В	0.701	-	С		
10	Barrington Avenue & B	AM	0.726	-	С	0.747	-	С		
	Sunset Boulevard	PM	0.597	-	Α	0.618	-	В		
11	Barrington Avenue &	AM	0.321	-	Α	0.381	-	Α		
	Barrington Place	PM	0.336	-	Α	0.353	-	Α		
12	Barrington Avenue &	AM	0.635	-	В	0.706	-	С		
	Montana Avenue	PM	0.616	-	В	0.635	-	В		
13	Barrington Avenue &	AM	0.670	-	В	0.767	-	С		
	San Vicente Boulevard	PM	0.620	-	В	0.665	-	В		
14	Barrington Avenue & B	AM	0.752	-	С	0.831	-	D		
	Wilshire Boulevard	PM	0.701	-	C	0.774	-	C		
15	Barrington Avenue &	AM	0.559	-	Α	0.595	-	Α		
	Ohio Avenue	PM	0.647	-	В	0.683	-	В		
16	Barrington Avenue & <sup>B</sup>	AM	0.691	-	В	0.979	-	E		
	Santa Monica Boulevard	PM	0.613	-	В	0.809	-	D		
17	San Vicente Boulevard/Federal	AM	0.764	-	С	0.839	-	D		
	Ave & Wilshire Boulevard <sup>B</sup>	PM	0.705	-	С	0.747	-	С		
18	Federal Avenue &	AM	0.373	-	Α	0.406	-	Α		
	Ohio Avenue	PM	0.375	-	Α	0.395	-	Α		
19	Federal Avenue & B	AM	0.529	-	Α	0.795	-	С		
	Santa Monica Boulevard	PM	0.423	-	Α	0.618	-	В		
20	Sunset Boulevard & B	AM	0.654	-	В	0.699	-	В		
	Woodburn Drive	PM	0.639	-	В	0.677	-	В		
21	Colby Avenue & B	AM	0.361	-	Α	0.624	-	В		
	Santa Monica Boulevard	PM	0.254	-	Α	0.453	-	Α		
22	Butler Avenue & B	AM	0.385	-	Α	0.632	-	В		
	Santa Monica Boulevard	PM	0.335	-	Α	0.525	-	Α		
23	Purdue Avenue & B	AM	0.286	-	Α	0.559	-	Α		
	Santa Monica Boulevard	PM	0.193	-	Α	0.394	-	Α		

No.	Intersection	Peak Hour	Existing	(2017) Co Existing	nditions		(2029) Co thout Proj	
			V/C	Delay	LOS	V/C	Delay	LOS
24	Corinth Avenue & B	AM	0.460	-	Α	0.735	-	С
	Santa Monica Boulevard	PM	0.313	-	A	0.515	-	A
25	Sawtelle Boulevard & Ohio Avenue	AM	0.708	-	С	0.710	-	С
		PM	0.598	-	A	0.599	-	A
26	Sawtelle Boulevard & B Santa Monica Boulevard	AM	0.523	-	A	0.768	-	С
27	Sawtelle Boulevard &	PM AM	0.466 0.237	-	A	0.680	-	В
21	La Grange Avenue	PM	0.237	-	A A	0.254 0.306	-	A A
28	Sawtelle Boulevard &	AM	0.269	_	A	0.333	_	A
20	Mississippi Avenue	PM	0.436	_	A	0.333	_	A
29	Sawtelle Boulevard & B	AM	0.773	_	C	0.916	-	E
	Olympic Boulevard	PM	0.760	_	C	0.881	_	D
30	Beloit Avenue/I-405 Southbound	AM	0.923		E	0.982		E
	Ramps <sup>B</sup> & Santa Monica				C			D
	Boulevard	PM	0.750		C	0.893		U
31	Cotner Avenue/I-405 Northbound	PM	0.649	-	В	0.868	-	D
	Ramps <sup>B</sup> & Santa Monica Boulevard	PM	0.569	-	Α	0.846	-	D
32	Sepulveda Boulevard &	AM	0.706	-	С	0.722	-	С
	Montana Avenue	PM	0.628	-	В	0.653	-	В
33	Sepulveda Boulevard &	AM	0.454	-	A	0.483	-	A
	Constitution Avenue	PM	0.607	-	В	0.653	-	В
34	Sepulveda Boulevard & <sup>B</sup> Wilshire Boulevard	AM	0.712	-	С	0.733	-	С
0.5		PM	0.848	-	D	0.907	-	E
35	Sepulveda Boulevard & Ohio Avenue	AM	0.787	-	С	0.833	-	D
36	Sepulveda Boulevard & <sup>B</sup>	PM <b>AM</b>	0.815 <b>0.837</b>	-	D <b>D</b>	0.879 <b>0.938</b>	-	D <b>E</b>
30	Santa Monica Boulevard	PM	0.837	-	С	0.885	-	D
37	Sepulveda Boulevard &	AM	0.338	_	A	0.383	-	A
"	Nebraska Avenue	PM	0.438	_	A	0.508	_	A
38	Sepulveda Boulevard &	AM	0.365	-	Α	0.406	-	A
	La Grange Avenue	PM	0.472	-	Α	0.539	-	Α
39	Sepulveda Boulevard & <sup>B</sup>	АМ	0.873	-	D	1.011	-	F
	Olympic Boulevard	PM	0.898	-	D	1.449	-	F
40	Veteran Avenue & B	АМ	0.740	-	С	0.967	-	E
	Wilshire Boulevard	PM	0.693	-	В	0.848	-	D
41	Veteran Avenue &	AM	0.683	-	В	0.717	-	С
	Ohio Avenue	PM	0.691	-	В	0.734	-	С
42	Veteran Avenue & B	AM	0.621	-	В	0.807	-	D
4.0	Santa Monica Boulevard	PM	0.750	-	С	0.886	-	D
43	Gayley Avenue & <sup>B</sup> Wilshire Boulevard	AM	0.756	-	С	0.865	-	D
1.4	Westwood Boulevard & B	PM	0.691	-	В	0.751	-	С
44	Wilshire Boulevard	AM	0.715	-	С	0.803	-	D
45	Westwood Boulevard & B	PM <b>AM</b>	0.637 <b>0.939</b>	-	В <b>Е</b>	0.716 <b>1.323</b>	-	<u>С</u> <b>F</b>
73	Santa Monica Boulevard	PM	0.939	-	E	1.323	-	F
46	Glendon Avenue & B	AM	0.628	-	В	0.681	-	В
.0	Wilshire Boulevard	PM	0.705	_	С	0.760	-	C
47	Selby Avenue & B	AM	0.538	-	A	0.601	-	В
	Wilshire Boulevard	PM	0.672	-	В	0.722	-	С
48	Dewey Avenue & <sup>C</sup>	AM	-	6.9	Α	-	6.9	Α
	Eisenhower Avenue	PM	-	7.0	Α	-	7.0	Α

No.	Intersection	Peak Hour	Existing	(2017) Co Existing	nditions	Future (2029) Conditions Without Project			
		lioui	V/C	Delay	LOS	V/C	Delay	LOS	
49	Bonsall Avenue & C	AM	-	8.4	Α	-	8.4	Α	
	Nimitz Avenue	PM	-	8.4	Α	-	8.4	Α	
50	Bonsall Avenue & C	AM	-	9.2	Α	-	9.2	Α	
	Pershing Avenue	PM	-	9.3	Α	-	9.3	Α	
51	Bonsall Avenue & C	AM	-	10.2	В	-	10.2	В	
	Eisenhower Avenue	PM	-	12.6	В	-	12.6	В	
52	Bonsall Avenue & Wilshire <sup>C</sup>	AM	-	10.3	В	-	10.5	В	
	Boulevard Westbound Ramps	PM	-	13.8	В	-	13.9	В	
53	Bonsall Avenue & Wilshire <sup>C</sup>	AM	-	12.0	В	-	14.0	В	
	Boulevard Eastbound Ramps	PM	-	19.3	С	-	27.8	D	
54	Bonsall Avenue & C	AM	-	9.3	Α	-	9.3	Α	
	Dowlen Drive	PM	-	10.0	В	-	10.0	В	
55	Sawtelle Boulevard & C	AM	-	13.7	В	-	13.7	В	
	Dowlen Drive	PM	-	8.9	А	-	8.9	Α	

#### Notes:

Source: (Crain & Associates, 2018)

#### 4.13.3.2.3 Roadway Segment Analysis

Roadway segments analyses were conducted for external residential street segments and internal roadway segments to identify impacts relating to traffic associated with Alternative A, ambient growth, and Related Projects. The external residential street segment impact analysis at 12 roadway segments was performed to address the potential for residential streets to be used as cut-through routes for WLA Campus traffic. Based upon Section 4.13.1, Evaluation Criteria, no external residential street segments are anticipated to be significantly impacted by Alternative A traffic since ADT is not increased. Additionally, 10 roadway segments within the WLA Campus were analyzed to determine potential Alternative A-related impacts to the internal circulation. Alternative A traffic is not likely to increase the potential for intermittent vehicular delays on the WLA Campus internal roadways (Table 4.13-4).

Table 4.13-4. Roadway Segment Analysis for Alternative A

No.	Roadway Segment	Existing ADT (2017)	Ambient Growth	Related Projects ADT	Alternative A ADT	Future ADT (2029)					
City	City of Los Angeles										
1	Barrington Ave bet. Crescenda St & Chaparal St	3,538	449	0	0	3,987					
2	Barrington Place bet. Sunset Blvd & Chayote St	10,757	1,365	345	0	12,467					
3	Barrington Place bet. Barrington Ave & Chayote St	10,076	1,278	306	0	11,660					
4	Church Lane bet. Elderwood St & Montana Ave	6,707	851	0	0	7,558					

a - Intersection shared between the cities of Los Angeles and Santa Monica.

b - Due to issues with upstream blockages, intersections along Santa Monica Boulevard, Wilshire Boulevard, Sunset Boulevard, and Olympic Boulevard were evaluated using a stricter significance impact threshold. A Project-related v/c increase equal to or greater than 0.01 was applied regardless of LOS. This threshold does not apply to the Wilshire Boulevard ramps on the VA WLA Campus. These are not mainline intersections

 $<sup>\</sup>boldsymbol{c}$  - WLA Campus intersection, unsignalized

No.	Roadway Segment	Existing ADT (2017)	Ambient Growth	Related Projects ADT	Alternative A ADT	Future ADT (2029)
5	Montana Ave bet. Westgate Ave & Barrington Ave	9,866	1,251	136	0	11,253
6	Montana Ave bet. Barrington Ave & Bringham Ave	4,511	572	0	0	5,083
7	Bringham Ave bet. Darlington Ave & San Vicente Ave	6,822	865	20	0	7,707
8	Rochester Ave bet. Federal Ave & Colby Ave	4,181	530	20	0	4,731
9	Ohio Ave bet. Stoner Ave & Barrington Ave	7,149	906	140	0	8,195
10	Butler Ave bet. Wyoming Ave & Ohio Ave	3,775	479	0	0	4,254
11	Purdue Ave bet. Ohio Ave & Santa Monica Blvd	1,546	196	0	0	1,742
12	Corinth Ave bet. Massachusetts Ave & Ohio Ave	2,787	353	0	0	3,140
WLA	Campus Internal					
13	Patton Ave north of Bonsall Ave	261	N/A	0	0	261
14	Bonsall Ave bet. Arnold Ave & Vandergrift Ave	2,192	N/A	0	0	2,192
15	Nimitz Ave bet. MacArthur Ave & Bonsall Ave	1,058	N/A	0	0	1,058
16	Constitution Ave east of Davis Ave	3,629	N/A	0	0	3,629
17	Bonsall Ave bet. Pershing Ave & Grant Ave	3,472	N/A	0	0	3,472
18	Dewey Ave bet. Eisenhower Ave & Grant Ave	1,161	N/A	0	0	1,161
19	Eisenhower Ave bet. Dewey Ave & Bonsall Ave	1,157	N/A	0	0	1,157
20	Bonsall Ave bet. Eisenhower Ave & Wilshire Blvd Westbound Ramps	7,398	N/A	0	0	7,398
21	Bonsall Ave bet. Wilshire Blvd Eastbound Ramps & Dowlen Dr	7,760	N/A	980	0	8,740
22	Sawtelle Blvd bet. Dowlen Dr & Ohio Ave	5,588	N/A	0	0	5,588
Total		105,391	9,095	1,947	0	116,433

Source: (Crain & Associates, 2018)

## 4.13.3.2.4 Congestion Management Program Impact Analysis

Since Alternative A does not create an increase in net daily trips or trigger increases to any other transportation-related conditions, no significant impacts are expected at any freeway monitoring locations or to transit per the CMP criteria.

### 4.13.3.2.5 Caltrans Freeway Screening Analysis

Since Alternative A does not create an increase in net daily trips or trigger increases to any other transportation-related conditions, the Caltrans Freeway Screening Analysis is not required.

### 4.13.3.2.6 Vehicle Miles Traveled Analysis

Since Alternative A does not create an increase in net daily trips or trigger increases to any other transportation-related conditions, the vehicle miles traveled (VMT) analysis was not conducted.

#### 4.13.3.2.7 Parking

Upon completion of all components associated with Alternative A, sufficient available site area is available within the WLA Campus to satisfy required increases in parking supply for vehicles and bicycles to meet the projected parking demand.

The North Campus supplies a total of 2,130 vehicle parking spaces and the South Campus provides a total of 2,167 parking spaces, resulting in a total of 4,297 parking spaces for the WLA Campus. These parking spaces are located in surface parking lots dispersed throughout the North Campus and South Campus. Parking requirements for Alternative A have been calculated based upon ITE parking rates, project-based empirical parking rates, and the LAMC. Federally owned land is not subject to local land use and zoning regulations. The LAMC parking requirements are shown for reference and compatibility to parking requirements for the areas adjacent to the WLA Campus.

Future vehicle parking demand is estimated to range from 3,434 spaces to 4,635 spaces. Based upon the upper end of the demand range and the current supply of 4,297 spaces, this indicates a maximum net increase of 338 parking spaces, or less than eight percent, which can be easily accommodated within the WLA Campus as needed (Table 4.13-5).

Table 4.13-5. Vehicle Parking Supply and Demand Under Alternative A

	Existing Supply	Future Demand	Variance
North Campus			
ITE Based Parking	2,130	1,628	502
Project-Based Parking	2,130	1,339	791
LAMC Parking	2,130	1,567	563
South Campus			
ITE Based Parking	2,167	2,356	(189)
Project-Based Parking	2,167	2,095	72
LAMC Parking	2,167	3,068	(901)
WLA Campus			
ITE Based Parking	4,297	3,984	313
Project-Based Parking	4,297	3,434	863
LAMC Parking	4,297	4,635	(338)

Source: (Crain & Associates, 2018)

The North Campus contains bicycle parking infrastructure for 192 bicycles and the South Campus contains bicycle parking infrastructure for 38 bicycles for an overall WLA Campus bicycle parking infrastructure of 230 bicycles. Future bicycle parking demand is estimated to range from 116 spaces to

502 spaces. Based upon the upper end of the demand range and the current supply of 230 spaces, this indicates a maximum net increase of 272 (Table 4.13-6).

Table 4.13-6. Bicycle Parking Supply and Demand Under Alternative A

	Existing Supply	Future Demand	Variance				
North Campus							
Project-Based Parking	192	92	100				
LAMC Parking	192	211	(19)				
South Campus							
Project-Based Parking	38	24	14				
LAMC Parking	38	291	(253)				
WLA Campus							
Project-Based Parking	230	116	114				
LAMC Parking	230	502	(272)				

Source: (Crain & Associates, 2018)

## 4.13.4 Alternative B (Existing Building Demolition)

Alternatives B proposes the demolition of 33 existing buildings on the WLA Campus. The existing tenants and functions would be relocated to other parts of the WLA Campus to the maximum extent possible. No new construction or new uses are projected under Alternative B.

#### 4.13.4.1 Impacts from Construction

Alternative B construction activities could potentially create traffic impacts to the surrounding area from an increase in truck traffic (export of fill materials and removal of building debris and delivery of limited construction materials specific to demolition activities) and an increase in automobile traffic from construction workers.

A detailed site construction plan has not been developed as the construction schedule will be implemented in response to evolving demands. Construction access to and from the WLA Campus will likely be provided via the following access points:

- Constitution Avenue west of Sepulveda Boulevard
- Bonsall Avenue north of the Wilshire Boulevard westbound on- and off-ramps
- Bonsall Avenue south of the Wilshire Boulevard eastbound on- and off-ramps
- Sawtelle Boulevard north of Ohio Avenue
- Eisenhower gate may be provided as an alternative access for construction vehicles only (the gate is currently closed for vehicular traffic)
- Construction trucks will not utilize the closed Gorham/Bringham gate

Potential impacts on traffic conditions associated with construction activities are typically considered short-term adverse impacts but may be significant. Due to the proximity of the WLA Campus to the I-405 and being located north and south of Wilshire Boulevard, which are both major haul routes, users of the area roadway network could experience the effects of construction-related traffic during some periods.

While sometimes inconvenient, the construction-related traffic effects will be temporary, lasting until the completion of each construction project. To mitigate impacts from construction traffic, VA would implement Mitigation Measure TT-4, *Implement Construction Management Plan*, as described in Chapter 6 of this PEIS.

## 4.13.4.2 Impacts from Operations

The proposed demolition of existing buildings contemplated under Alternative B does not result in additional vehicle trips or an increase in net daily trips. Operational impacts under Alternative B are not expected for all traffic and transportation matters due to the substantial reduction in the number of buildings and amount of total building area, which will substantially decrease building occupancy levels and traffic generation.

### **4.13.4.2.1** *Trip Generation*

Upon completion of the demolition activities associated with Alternative B, a substantial reduction in daily vehicle trips is anticipated. The final determination of the relocation strategy for existing tenants and services to other existing buildings will impact the ultimate reduction in vehicle trips but it is anticipated to be significant since the limited size and capacity of other existing buildings will not accommodate meaningful levels of relocated uses and occupants. Existing conditions currently generate 27,398 daily vehicle trips, and Alternative B is anticipated to most likely decrease these daily vehicle trips.

## 4.13.4.2.2 Traffic Conditions Level of Service

Under Alternative B, traffic will be reduced as result of the building demolition program. Since incremental traffic is not a factor, and traffic is anticipated to substantially decrease, LOS for the study area intersections for Alternative B was not separately analyzed.

#### 4.13.4.2.3 Roadway Segment Analysis

Under Alternative B, traffic and transportation conditions would improve due to the reduction in daily vehicle trips, which would decrease traffic volumes for intersections and roadway segments.

#### 4.13.4.2.4 Congestion Management Program Impact Analysis

Since Alternative B does not create an increase in net daily trips or trigger increases to any other transportation-related conditions, no significant impacts are expected at any freeway monitoring locations or to transit per the CMP criteria.

#### 4.13.4.2.5 Caltrans Freeway Screening Analysis

Since Alternative B does not create an increase in net daily trips or trigger increases to any other transportation-related conditions, the Caltrans Freeway Screening Analysis is not required.

### 4.13.4.2.6 Vehicle Miles Traveled Analysis

Since Alternative B does not create an increase in net daily trips or trigger increases to any other transportation-related conditions, the VMT analysis was not conducted.

#### 4.13.4.2.7 Parking

Upon completion of all components associated with Alternative B, demand for parking will be reduced due to the demolition and removal from service of buildings. The final determination of the relocation strategy for existing tenants and services to other existing buildings will impact the ultimate reduction in vehicle and bicycle parking supply and demand but it is anticipated to be significant, with substantial excess parking supply forecast to remain in place.

# 4.13.5 Alternative C (Demolition and New Construction)

Alternative C includes the demolition of 33 buildings comprising approximately 1.75 million ft<sup>2</sup> and the new construction of replacement and new buildings comprising 3.2 million ft<sup>2</sup>. The majority of existing buildings located within the North Campus will be replaced with a similar amount of square footage within the same building site areas (direct replacement), and the new buildings would primarily serve housing functions. Due to the scale, complexity, and need to maintain existing hospital functions, the Medical Center buildings located within the South Campus will be reconstructed in a different building configuration with a minor increase to overall building areas. Additionally, new construction will occur on existing vacant land for the North Campus to support additional housing units and a new town center. In total, the WLA Campus would see a net addition of 1.44 million ft<sup>2</sup> and up to 1,622 new units of supportive housing.

#### 4.13.5.1 Impacts from Construction

Construction activities related to Alternative C could potentially create traffic impacts to the surrounding area from an increase in truck traffic (export or import of fill materials and delivery of construction materials) and an increase in automobile traffic from construction workers.

A detailed site construction plan has not been developed as the construction schedule will be implemented in response to evolving demands. Construction access to and from the WLA Campus will likely be provided via the following access points:

- Constitution Avenue west of Sepulveda Boulevard
- Bonsall Avenue north of the Wilshire Boulevard westbound on- and off-ramps
- Bonsall Avenue south of the Wilshire Boulevard eastbound on- and off-ramps
- Sawtelle Boulevard north of Ohio Avenue
- Eisenhower gate may be provided as an alternative access for construction vehicles only (the gate is currently closed for vehicular traffic)
- Construction trucks will not utilize the closed Gorham/Bringham gate

Potential impacts on traffic conditions associated with construction activities are typically considered short-term adverse impacts but may be significant. Impacts are expected to be more noticeable than under Alternatives A or B, given the greater scope of construction activities that would take place within

the same 10-year construction period. Due to the proximity of the WLA Campus to the I-405 and being located north and south of Wilshire Boulevard, which are both major haul routes, users of the area roadway network could experience the effects of construction-related traffic during some periods. To mitigate impacts from construction traffic, VA would implement Mitigation Measure TT-4, *Implement Construction Management Plan*, as described in Chapter 6 of this PEIS.

#### 4.13.5.2 Impacts from Operations

Traffic impacts from operations of Alternative C were analyzed using the "Future (2029) With Project" scenario from the TIA. This scenario incorporates all projects contemplated in Alternative C, as well as 1,795 new units of supportive housing, creating an even more stringent analysis of traffic impacts that what would be generated under Alterative C (which assumes up to new 1,622 units). The "Future (2029) With Project" scenario also takes into consideration cumulative impacts by evaluating traffic from regional growth and related projects in addition to traffic increases attributable to Alternative C alone.

Operational impacts under Alternative C would be significant for all traffic and transportation matters, prior to mitigation measures, and not significant, after the implementation of mitigation measures, as described below.

#### **4.13.5.2.1 Trip Generation**

Under Alternative C, an increase of 3,949 net daily trips will be generated, including 351 (224 inbound/127 outbound) trips during the a.m. peak hour and 355 trips (127 inbound/228 outbound) during the p.m. peak hour. Table 4.13-7 shows a summary for Alternative C.

**Vehicle Trips AM Peak Hour PM Peak Hour** O/B **Daily** I/B **Total** I/B O/B Total **North Campus Future Uses** 8,229 597 213 810 265 597 862 (22)Internal Trips (233)(10)(12)(22)(13)(9)(10)(50)Transit Credit (464)(38)(48)(13)(37)(6) (25)Transit Credit (245)(17)(23)(8)(17)Total 7,287 532 185 717 231 534 765 **South Campus** 2,711 **Future Uses** 29,051 1.699 545 2,244 768 1.943 (233)(12)(10)(22)(9)(13)(22)Internal Trips Internal Trips (23)(256)(14)(8)(22)(7)(16)Internal Trips (256)(8)(14)(22)(16)(7)(23)(110)Transit Credit (4,246)(250)(396)(77)(327)(286)Total 24,060 1.415 436 1,851 626 1,621 2,247 Summary 765 North Campus 7,287 532 185 717 231 534

Table 4.13-7. Trip Generation Under Alternative C

			1	Vehicle Trip	os		
		AM	Peak	Hour	PM Peak Hour		
	Daily	I/B	O/B	Total	I/B	O/B	Total
South Campus	24,060	1,415	436	1,851	626	1,621	2,247
Total	31,347	1,947	621	2,568	857	2,155	3,012
Net Project Trips							
Overall Existing Trips	27,398	1,723	494	2,217	730	1,927	2,657
Overall Future Trips	31,347	1,947	621	2,568	857	2,155	3,012
Overall Net Project Trips	3,949	224	127	351	127	228	355

Source: (Crain & Associates, 2018)

## 4.13.5.2.2 Traffic Conditions Level of Service

With the addition of Alternative C traffic volumes, and without implementing any mitigation measures, there would be eight intersections significantly impacted (Figure 4.13-1). Six impacted intersections are located within the City of Los Angeles and two impacted intersections are located within the WLA Campus. The impacted intersection numbers are numbers 25, 26, 30, 31, 34, 36, 53, and 55 shown in bold in Table 4.13-8.

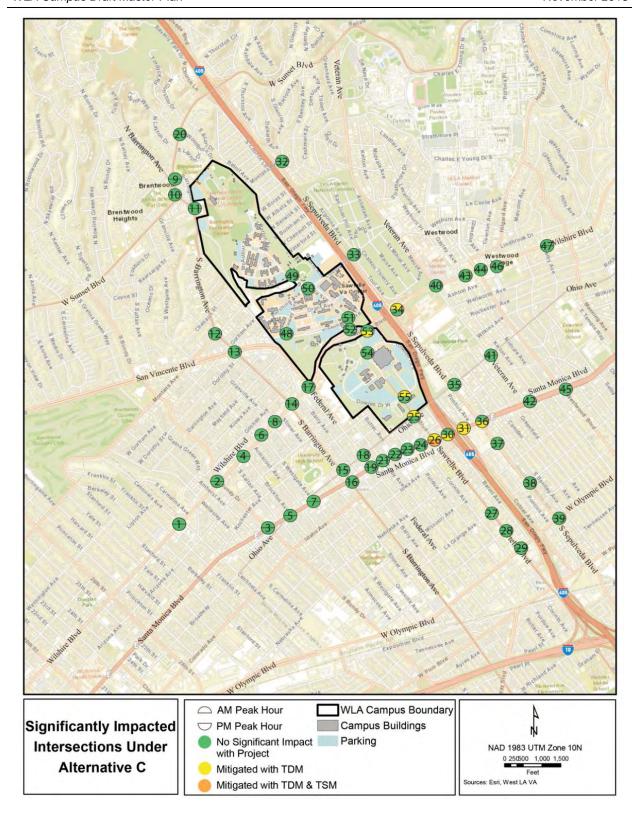


Figure 4.13-1. Significantly Impacted Intersections Under Alternative C

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# Table 4.13-8. Traffic LOS Under Alternative C

No.	Intersection	Peak	Existing (2017) Conditions Plus Project				(2029) Con Vith Projec	
		Hour	V/C	Delay	LOS	V/C	Delay	LOS
1	Centinela Avenue & A/B	AM	0.455	6.0	Α	0.489	5.9	Α
	Wilshire Boulevard	PM	0.568	9.6	Α	0.614	9.5	B*
2	Bundy Drive & <sup>B</sup>	AM	0.802	-	D	1.139	-	F
	Wilshire Boulevard	PM	0.783	-	С	1.142	-	F
3	Bundy Drive & <sup>B</sup>	AM	0.669	-	В	0.827	-	D
	Santa Monica Boulevard	PM	0.736	-	С	0.884	-	D
4	Brockton Avenue & B	AM	0.469	-	Α	0.522	-	Α
	Wilshire Boulevard	PM	0.430	-	Α	0.492	-	Α
5	Brockton Avenue & B	AM	0.430	-	Α	0.701	-	С
	Santa Monica Boulevard	PM	0.451	-	Α	0.710	-	С
6	Westgate Avenue & B	AM	0.443	-	Α	0.509	-	A
	Wilshire Boulevard	PM	0.403	-	Α	0.467	-	Α
7	Westgate Avenue & B	AM	0.463	-	Α	0.774	-	С
-	Santa Monica Boulevard	PM	0.490	-	Α	0.730	-	C
8	Granville Avenue & B	AM	0.439	_	A	0.499	-	A
ŭ	Wilshire Boulevard	PM	0.405	_	A	0.460	-	A
9	Barrington Place & B	AM	0.775	-	C	0.855	-	D
5	Sunset Boulevard	PM	0.661	_	В	0.701	-	C
10	Barrington Avenue & B	AM	0.726	-	C	0.747	-	C
10	Sunset Boulevard	PM	0.720	_	A	0.618	_	В
11	Barrington Avenue &	AM	0.322	-	A	0.382	-	A
11	Barrington Place	PM	0.322	-	A	0.353	-	A
12	Barrington Avenue &		0.636			0.333		C
12	Montana Avenue	AM		-	В	0.708	-	В
40		PM	0.616	-	В		-	С
13	Barrington Avenue & San Vicente Boulevard	AM	0.675	-	В	0.772	-	
4.4	Barrington Avenue & B	PM	0.622	-	В	0.667	-	В
14	Wilshire Boulevard	AM	0.758	-	С	0.838	-	D
4.5		PM	0.705	-	C	0.779	-	C
15	Barrington Avenue & Ohio Avenue	AM	0.566	-	A	0.602	-	В
40		PM	0.652	-	В	0.687	-	В
16	Barrington Avenue & <sup>B</sup> Santa Monica Boulevard	AM	0.694	-	В	0.983	-	E
4-		PM	0.621	-	В	0.817	-	D
17	San Vicente Boulevard/Federal	AM	0.770	-	С	0.845	-	D
4.0	Avenue & B Wilshire Boulevard	PM	0.710	-	С	0.752	-	С
18	Federal Avenue &	AM	0.379	-	A	0.411	-	A
	Ohio Avenue	PM	0.379	-	A	0.399	-	A
19	Federal Avenue & B	AM	0.529	-	Α	0.795	-	С
	Santa Monica Boulevard	PM	0.425	-	Α	0.621	-	В
20	Sunset Boulevard & B	AM	0.654	-	В	0.699	-	В
	Woodburn Drive	PM	0.640	-	В	0.678	-	В
21	Colby Avenue & B	AM	0.364	-	Α	0.627	-	В
	Santa Monica Boulevard	PM	0.257	-	Α	0.456	-	A
22	Butler Avenue & B	AM	0.387	-	Α	0.634	-	В
	Santa Monica Boulevard	PM	0.337	-	Α	0.528	-	Α
23	Purdue Avenue & B	AM	0.287	-	Α	0.560	-	Α
	Santa Monica Boulevard	PM	0.196	-	Α	0.397	-	A
24	Corinth Avenue & B	AM	0.460	-	Α	0.735	-	С
	Santa Monica Boulevard	PM	0.316	1 _	Α	0.519	1 _	Α

No.	Intersection	Peak Hour	Existing (2017) Conditions Plus Project				(2029) Cond Vith Project	
			V/C	Delay	LOS	V/C	Delay	LOS
25	Sawtelle Boulevard &	AM	0.775	-	С	0.777	-	С
	Ohio Avenue	PM	0.685	-	В	0.686	-	В
26	Sawtelle Boulevard & B	AM	0.573	-	Α	0.798	-	С
	Santa Monica Boulevard	PM	0.520	-	Α	0.733	-	С
27	Sawtelle Boulevard &	AM	0.243	-	Α	0.259	-	Α
	La Grange Avenue	PM	0.308	-	Α	0.325	-	Α
28	Sawtelle Boulevard &	AM	0.323	-	Α	0.337	-	A
	Mississippi Avenue	PM	0.452	-	A	0.463	-	A
29	Sawtelle Boulevard & B	AM	0.784	-	C	0.917	-	E
	Olympic Boulevard	PM	0.765	-	C	0.888	-	D
30	Beloit Avenue/I-405 Southbound Ramps & <sup>B</sup>	AM	0.930	-	E	0.989	-	E
	Santa Monica Boulevard	PM	0.768	-	С	0.909	-	E
31	Cotner Avenue/I-405	AM	0.663	-	В	0.880	-	D
	Northbound Ramps & <sup>B</sup>	РМ	0.572	-	Α	0.864	-	D
	Santa Monica Boulevard							
32	Sepulveda Boulevard &	AM	0.715	-	С	0.729	-	С
	Montana Avenue	PM	0.635	-	В	0.659	-	В
33	Sepulveda Boulevard &	AM	0.487	-	Α	0.517	-	Α
	Constitution Avenue	PM	0.607	-	В	0.653	-	В
34	Sepulveda Boulevard & <sup>B</sup>	AM	0.723	-	С	0.745	-	С
	Wilshire Boulevard	PM	0.858	-	D	0.915	-	Е
35	Sepulveda Boulevard &	AM	0.790	-	С	0.836	-	D
	Ohio Avenue	PM	0.823	-	D	0.887	-	D
36	Sepulveda Boulevard & <sup>B</sup>	AM	0.843	-	D	0.944	•	Е
	Santa Monica Boulevard	PM	0.749	-	C	0.896	•	D
37	Sepulveda Boulevard &	AM	0.342	-	Α	0.387	-	Α
	Nebraska Avenue	PM	0.442	-	Α	0.513	-	Α
38	Sepulveda Boulevard &	AM	0.369	-	Α	0.410	-	Α
	La Grange Avenue	PM	0.476	-	Α	0.543	-	Α
39	Sepulveda Boulevard & B	AM	0.878	-	D	1.016	-	F
	Olympic Boulevard	PM	0.901	-	Е	1.455	-	F
40	Veteran Avenue & B	AM	0.744	-	С	0.971	-	Е
	Wilshire Boulevard	PM	0.700	-	С	0.855	-	D
41	Veteran Avenue &	AM	0.688	-	В	0.722	-	С
	Ohio Avenue	PM	0.695	-	В	0.738	-	С
42	Veteran Avenue & B	AM	0.626	-	В	0.810	-	D
	Santa Monica Boulevard	PM	0.754	-	С	0.894	-	D
43	Gayley Avenue & B	AM	0.761	-	С	0.870	-	D
L .	Wilshire Boulevard	PM	0.693	-	В	0.755	-	С
44	Westwood Boulevard & B	AM	0.717	-	С	0.806	-	D
L	Wilshire Boulevard	PM	0.640	-	В	0.718	-	С
45	Westwood Boulevard & B	AM	0.941	-	E	1.325	-	F
40	Santa Monica Boulevard	PM	0.924	-	E	1.282	-	F
46	Glendon Avenue & <sup>B</sup> Wilshire Boulevard	AM	0.630	-	В	0.683	-	В
47		PM	0.706	-	C	0.762	-	0
47	Selby Avenue & <sup>B</sup> Wilshire Boulevard	AM	0.541	-	A	0.604	-	ВС
40		PM	0.675	7.0	В	0.725	- 7.0	
48	Dewey Avenue & <sup>C</sup> Eisenhower Avenue	AM	-	7.0	A	-	7.0	A
40		PM	-	7.0	A	-	7.0	A
49	Bonsall Avenue & <sup>C</sup> Nimitz Avenue	AM	-	8.4	A	-	8.4	A
	INITIAL AVEITUE	PM	-	8.4	Α	-	8.4	Α

No.	Intersection	Peak Hour	Existing (2017) Conditions Plus Project			Future (2029) Conditions With Project		
			V/C	Delay	LOS	V/C	Delay	LOS
50	Bonsall Avenue & <sup>C</sup> Pershing Avenue	AM	-	9.8	Α	-	9.8	Α
		PM	-	9.9	Α	-	9.9	Α
51	Bonsall Avenue & <sup>C</sup> Eisenhower Avenue	AM	-	10.8	В	-	10.8	В
		PM	-	14.3	В	-	14.3	В
52	2 Bonsall Avenue & Wilshire <sup>C</sup>	AM	-	11.3	В	-	11.5	В
	Boulevard Westbound Ramps	PM	-	14.7	В	-	14.9	В
53	Bonsall Avenue & Wilshire <sup>C</sup> Boulevard Eastbound Ramps	AM	-	13.6	В	-	16.5	С
		PM	-	36.2	Е	-	57.3	F
54	Bonsall Avenue & <sup>C</sup> Dowlen Drive	AM	-	10.0	В	-	10.0	В
		PM	-	11.6	В	-	11.6	В
55	Sawtelle Boulevard & <sup>C</sup>	AM	-	25.8	D	•	25.8	D
	Dowlen Drive	PM	•	11.4	В	•	11.4	В

#### Notes:

c - WLA Campus intersection, unsignalized

Source: (Crain & Associates, 2018)

Specific mitigation measures were developed to address the potential significant transportation and traffic impacts after full implementation of the Alternative C. Mitigation measures would be implemented for the areas and intersections that were identified as being potentially significantly impacted. Mitigation measures that VA would apply to help alleviate potential impacts to transportation and traffic on- and off-campus include the following:

- TT-1: *Implement TDM Plan*
- TT-2: Implement Transportation Systems Management (TSM) Plan

These mitigation measures are discussed in more detail in Chapter 6 of this PEIS. After implementation of mitigation measures, no significant impacts are anticipated at any of the study area intersections.

#### 4.13.5.2.3 Roadway Segment Analysis

Roadway segment analyses were conducted for external residential street segments and internal roadway segments to identify impacts relating to traffic associated with Alternative C, ambient growth, and Related Projects. The external residential street segment impact analysis at 12 roadway segments was performed to address the potential for residential streets to be used as cut-through routes for WLA Campus traffic. Based upon Section 4.13.1, Evaluation Criteria, no external residential street segments are anticipated to be significantly impacted by Alternative C traffic (Table 4.13-9). The ADT increases specific to Alternative C traffic volumes range from 0.2 to 2.1 percent, with an average increase of 0.8 percent.

Additionally, 10 roadway segments within the WLA Campus were analyzed to determine potential Alternative C-related impacts to the internal circulation. Since no specific impact thresholds are applicable to these non-residential, internal roadway segments, they were analyzed without specific impact criteria. The TIA showed that Alternative C traffic is likely to increase the potential for

a - Intersection shared between the cities of Los Angeles and Santa Monica.

b - Due to issues with upstream blockages, intersections along Santa Monica Boulevard, Wilshire Boulevard, Sunset Boulevard, and Olympic Boulevard were evaluated using a stricter significance impact threshold. A Project-related v/c increase equal to or greater than 0.01 was applied regardless of LOS. This threshold does not apply to the Wilshire Boulevard ramps on the VA WLA Campus. These are not mainline intersections

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intermittent vehicular delays on the WLA Campus internal roadways (Table 4.13-9). While not exceeding a significance level, to alleviate the internal roadway congestion, VA will implement Mitigation Measure TT-3: *Implement Circulation Plan*, to increase the efficiency of the internal roadway network and substantially diminish the impacts.

Table 4.13-9. Roadway Segment Analysis Under Alternative C

No.	Roadway Segment	Existing ADT (2017)	Ambient Growth	Related Projects ADT	Alternative C ADT	Future ADT (2029)	
City	of Los Angeles						
1	Barrington Ave between Crescenda St & Chaparal St	3,538	449	0	29	4,016	
2	Barrington Place between Sunset Blvd & Chayote St	10,757	1,365	345	20	12,487	
3	Barrington Place between Barrington Ave & Chayote St	10,076	1,278	306	20	11,680	
4	Church Lane between Elderwood St & Montana Ave	6,707	851	0	30	7,588	
5	Montana Ave between Westgate Ave & Barrington Ave	9,866	1,251	136	29	11,282	
6	Montana Ave between Barrington Ave & Bringham Ave	4,511	572	0	40	5,123	
7	Bringham Ave between Darlington Ave & San Vicente Ave	6,822	865	20	39	7,746	
8	Rochester Ave between Federal Ave & Colby Ave	4,181	530	20	60	4,791	
9	Ohio Ave between Stoner Ave & Barrington Ave	7,149	906	140	78	8,273	
10	Butler Ave between Wyoming Ave & Ohio Ave	3,775	479	0	27	4,281	
11	Purdue Ave between Ohio Ave & Santa Monica Blvd	1,546	196	0	38	1,780	
12	Corinth Ave between Massachusetts Ave & Ohio Ave	2,787	353	0	50	3,190	
WLA Campus Internal							
13	Patton Ave north of Bonsall Ave	261	N/A	0	(2)	259	
14	Bonsall Ave between Arnold Ave & Vandergrift Ave	2,192	N/A	0	(12)	2,180	
15	Nimitz Ave between MacArthur Ave & Bonsall Ave	1,058	N/A	0	(8)	1,050	
16	Constitution Ave east of Davis Ave	3,629	N/A	0	(29)	3,600	
17	Bonsall Ave between Pershing Ave & Grant Ave	3,472	N/A	0	(24)	3,448	
18	Dewey Ave between Eisenhower Ave & Grant Ave	1,161	N/A	0	(3)	1,158	
19	Eisenhower Ave between Dewey Ave & Bonsall Ave	1,157	N/A	0	(15)	1,142	
20	Bonsall Ave between Eisenhower Ave & Wilshire Blvd Westbound Ramps	7,398	N/A	0	(31)	7,367	
21	Bonsall Ave between Wilshire Blvd Eastbound Ramps & Dowlen Dr	7,760	N/A	980	1,651	10,391	

No.	Roadway Segment	Existing ADT (2017)	Ambient Growth	Related Projects ADT	Alternative C ADT	Future ADT (2029)
22	Sawtelle Blvd between Dowlen Dr & Ohio Ave	5,588	N/A	0	3,336	8,924
Total		105,391	9,095	1,947	5,323	121,756

Source: (Crain & Associates, 2018)

### 4.13.5.2.4 Congestion Management Program Impact Analysis

It is estimated that the implementation of Alternative C would result in significant impact at one of the Los Angeles County CMP arterial monitoring location—Sepulveda Boulevard and Wilshire Boulevard. With the application of the proposed Mitigation Measures TT-1, *Implement TDM Plan* 1 and TT-2, *Implement TSM Plan*, this intersection would be fully mitigated. No significant impacts are expected at any freeway monitoring locations or to transit per the CMP criteria.

### 4.13.5.2.5 Caltrans Freeway Screening Analysis

The screening analysis evaluated four freeway mainline segments (per direction), two surface highway segments (per direction), and nine freeway off-ramps. Of the locations analyzed, prior to the application of the proposed mitigation measures, one surface highway segment and two freeway off-ramps would meet the triggers for a further impact analysis based on the expected Alternative C volume contributions at these locations. With the application of the proposed Mitigation Measures TT-1, *Implement TDM Plan* 1 and TT-2, *Implement TSM Plan*, none of these freeway segments, highway segments, or freeway off-ramp locations would trigger further impact analysis based on the expected Alternative C volume contributions at these locations.

#### 4.13.5.2.6 Vehicle Miles Traveled Analysis

A supplemental VMT analysis was conducted to determine the resultant VMT from the implementation of Alternative C. The VMT was calculated both without and with the inclusion of Mitigation Measure TT-1, *Implement TDM Plan*. The project VMT growth was compared to VMT growth with the employment increases in typical Los Angeles County and WLA locations. Continuing growth in employment will result in an increase in VMT. The increase in employment for the WLA Campus, if it were to occur in an average Los Angeles County location, would result in an increase in Los Angeles County VMT of 79,770 miles upon implementation completion of all Alternative C components. At an average location in WLA, the increase in the VMT would be 32,382 miles upon completion. At the WLA Campus, the increase in VMT would be 28,630 miles if Alternative C were implemented without mitigation. With Mitigation Measure TT-1, *Implement TDM Plan*, the VMT increase is anticipated to be reduced by 1,247 miles.

#### 4.13.5.2.7 Parking

Upon completion of all components associated with Alternative C, the necessary number of parking spaces would be provided on the WLA Campus. Sufficient site area is available within the WLA Campus

to satisfy the required increases in parking supply for vehicles and bicycles to meet the projected parking demand.

The North Campus supplies a total of 2,130 vehicle parking spaces, while the South Campus provides a total of 2,167 parking spaces resulting in a total of 4,297 parking spaces for the WLA Campus. These parking spaces are located in surface parking lots dispersed throughout the North Campus and South Campus. Parking requirements for Alternative C have been calculated based upon ITE parking rates, project based empirical parking rates, and the City of LAMC. Federally owned land is not subject to local land use and zoning regulations. The LAMC parking requirements are shown for reference and compatibility to parking requirements for the areas adjacent to the WLA Campus.

Future vehicle parking demand is estimated to range from 4,927 spaces to 5,809 spaces. Based upon the upper end of the demand range and the current supply of 4,297 spaces, this indicates a maximum net increase of 1,512 parking spaces, or 35 percent, which can be easily accommodated within the WLA Campus as needed (Table 4.13-10).

Table 4.13-10. Vehicle Parking Supply and Demand Under Alternative C

	Existing Supply	Future Demand	Variance				
North Campus							
ITE Based Parking	2,130	1,913	217				
Project-Based Parking	2,130	2,861	(731)				
LAMC Parking	2,130	2,029	101				
South Campus							
ITE Based Parking	2,167	3,090	(923)				
Project-Based Parking	2,167	2,948	(781)				
LAMC Parking	2,167	2,898	(731)				
WLA Campus							
ITE Based Parking	4,297	5,003	(706)				
Project-Based Parking	4,297	5,809	(1,512)				
LAMC Parking	4,297	4,927	(630)				

Source: (Crain & Associates, 2018)

The North Campus contains bicycle parking infrastructure for 192 bicycles, and the South Campus contains bicycle parking infrastructure for 38 bicycles. The overall WLA Campus contains bicycle parking infrastructure for 230 bicycles.

Future bicycle parking demand is estimated to range from 205 spaces to 2,022 spaces with the large variance due primarily to the LAMC requirement for one space per housing unit. Based upon the upper end of the demand range and the current supply of 230 spaces, this indicates a maximum net increase of 1,934 (Table 4.13-11).

**Existing Supply Future Demand Variance North Campus** 21 Project-Based Parking 192 171 LAMC Parking 192 2.022 (1,830)**South Campus** 4 Project-Based Parking 38 34 LAMC Parking 38 142 (104)**WLA Campus** 25 Project-Based Parking 230 205 230 (1,934)LAMC Parking 2,164

Table 4.13-11. Bicycle Parking Supply and Demand Under Alternative C

Source: (Crain & Associates, 2018)

### 4.13.6 Alternative D (Renovation, Demolition, and New Construction)

Alternative D is a combination approach, incorporating existing building renovation and new construction methods. Some of existing buildings located within the North Campus will be renovated and some will be demolished and replaced with buildings of similar square footage within the same building footprints. Due to the scale, complexity, and need to maintain existing hospital functions, the Medical Center buildings located within the South Campus will be reconstructed in a different building configuration with minor increases to overall building areas. Additionally, new construction will occur on existing vacant land for North Campus Redevelopment Zone (New Construction), Research, and Town Center programs. This would result in the net addition of 1.44 million ft<sup>2</sup>.

### 4.13.6.1 Impacts from Construction

Construction activities related to Alternative D could potentially create traffic impacts to the surrounding area from an increase in truck traffic (export or import of fill materials and delivery of construction materials) and an increase in automobile traffic from construction workers.

A detailed site construction plan has not been developed as the construction schedule will be implemented in response to evolving demands. Construction access to and from the WLA Campus will likely be provided via the same access points as those outlined in Alternative C.

Potential impacts on traffic conditions associated with construction activities are typically considered short-term adverse impacts. Impacts are expected to be more similar to those of Alternative C, given the greater scope of construction activities that would take place within the same 10-year construction period as compared to Alternatives A and B. Due to the proximity of the WLA Campus to the I-405 and being located north and south of Wilshire Boulevard, which are both major haul routes, users of the area roadway network could experience the effects of construction-related traffic during some periods. To mitigate impacts from construction traffic, VA would implement Mitigation Measure TT-4, *Implement Construction Management Plan*, as described in Chapter 6 of this PEIS.

### 4.13.6.2 Impacts from Operations

Future traffic conditions for Alternative D are expected to be similar to those of Alternative C since the land uses and building areas are the same size and configuration. The only difference between Alternative C and Alternative D is the incorporation of building renovation in addition to new construction in the latter. Therefore, the same Future (2029) With Project scenario was applied to Alternative D. Consequently, the traffic analysis for the implementation of Alternative D takes into consideration cumulative impacts by evaluating existing traffic conditions, plus traffic from regional growth and related projects, and Alternative D traffic.

Operational impacts under Alternative D would be significant for all traffic and transportation matters, prior to mitigation measures, and not significant, after the implementation of mitigation measures, as described in more detail below.

#### **4.13.6.2.1 Trip Generation**

Alternative D trip generation is the same as Alternative C since the land uses and building areas are the same size and configuration.

## 4.13.6.2.2 Traffic Conditions Level of Service

Alternative D traffic volumes and conditions are the same as Alternative C since land uses and trip generation are at the same levels. Without implementing any mitigation measures, there would be a total of eight significant intersection impacts in Alternative D (Figure 4.13-1). Six impacted intersections are located within the City of Los Angeles and two impacted intersections are located within the WLA Campus. The impacted intersection numbers are numbers 25, 26, 30, 31, 34, 36, 53, and 55 shown in bold in Table 4.13-8.

Specific mitigation measures were developed to address the potential significant transportation and traffic impacts after full implementation of the Alternative D. Mitigation measures would be implemented for the areas and intersections that were identified as being potentially significantly impacted. Mitigation measures that VA would apply to help alleviate potential impacts to transportation and traffic on- and off-campus include the following:

- TT-1: Implement TDM Plan
- TT-2: Implement TSM Plan

These mitigation measures are discussed in more detail in Chapter 6, Mitigation, Monitoring, Minimization, and Best Practices, of this PEIS. After implementation of mitigation measures, no significant impacts are anticipated at any of the study area intersections.

## 4.13.6.2.3 Roadway Segment Analysis

Similar to Alternative C, no external roadway segments are expected to be significantly impacted. Some internal roadway segments within the WLA will experience intermittent vehicular delays. To alleviate the internal roadway congestion, VA will implement Mitigation Measure TT-3: *Implement Circulation Plan*.

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### 4.13.6.2.4 Congestion Management Program Impact Analysis

Similar to Alternative C, Alternative D would result in significant impact at one of the Los Angeles County CMP arterial monitoring location – Sepulveda Boulevard and Wilshire Boulevard. With the application of the proposed Mitigation Measures TT-1, *Implement TDM Plan* 1 and TT-2, *Implement TSM Plan*, this intersection would be fully mitigated.

#### 4.13.6.2.5 Caltrans Freeway Screening Analysis

Similar to Alternative C, one surface highway segment and two freeway off-ramps would meet the triggers for a further impact analysis based on the expected Alternative D volume contributions at these locations. With the application of the proposed Mitigation Measures TT-1, *Implement TDM Plan* 1 and TT-2, *Implement TSM Plan*, none of these freeway segments, highway segments, or freeway off-ramp locations would trigger further impact analysis based on the expected Alternative D volume contributions at these locations.

#### 4.13.6.2.6 Vehicle Miles Traveled Analysis

At the WLA Campus, the increase in VMT would be 28,630 miles if Alternative D were implemented without mitigation. With Mitigation Measure TT-1, *Implement TDM Plan*, the VMT increase is anticipated to be reduced by 1,247 miles.

#### 4.13.6.2.7 Parking

Alternative D parking impacts are the same as Alternative C since the land uses and building areas are the same size and configuration. The only difference between Alternative C and Alternative D is the incorporation of building renovation in addition to new construction.

#### 4.13.7 Alternative E (No Action)

Under Alternative E, the WLA Campus would remain the same as present day. No construction activities tied to the Proposed Action would occur on the WLA Campus.

#### 4.13.7.1 Impacts from Construction

Under Alternative E, no construction-related transportation, traffic, parking, transit, or pedestrian circulation impacts would occur.

#### 4.13.7.2 Impacts from Operations

Alternative E does not result in additional vehicle trips or an increase in net daily trips. Consequently, the transportation-related future conditions are anticipated to be similar to the existing conditions incorporating only the addition of ambient growth and the Related Project traffic. Alternative E would be reflective of "Future (2029) Without Project" conditions, described under Alternative A. Since Alternative E does not contemplate any construction activities that would alter the size, configuration and condition of the WLA Campus, there would be no change in related transportation, traffic, parking,

transit, or pedestrian circulation conditions. Operational impacts under Alternative E would be less than significant for all traffic and transportation matters.

### 4.14 Utilities

This section describes potential impacts to, or demand on, utilities associated with the Proposed Action and alternatives for potential improvements and redevelopment of the WLA Campus.

### 4.14.1 Evaluation Criteria

An alternative is considered to result in an adverse effect to utilities if it:

- Requires or results in the construction of new (offsite) electric or natural gas generation or transmission facilities or capacity enhancing alterations to existing facilities;
- Requires or results in the construction of new water or wastewater treatment facilities or
  expansion of existing facilities, based on total estimated water demand or a measurable increase
  in wastewater flows and results in insufficient capacity needs or constraints, and/or requires
  significant replacement of the water or wastewater distribution system based on constraints due to
  capacity and/or degradation issues, including from age and condition; or
- Requires or results in significant upgrade or replacement of the stormwater system due to insufficient capacity and / or degradation issues, including from age and condition.

### 4.14.2 Assessment Methods

To forecast utility demand under each of the alternatives accurately, baseline utility demand was modeled using reference data sources, actual utility demand described in Section 3.14, Utilities, and data on facility type and size. Table 4.14-1 provides a summary of the data sources and assumptions used to develop the baseline model. Future utility use was then projected based on changes in facility type and/or changes in facility footprints. For example, based on the EIA Water Consumption in Large Commercial Buildings 2012 estimate, changing the facility type from an "administrative office" to an "inpatient health care facility" at the 75th percentile results in an increase in water consumption from 17.2 gallons per GSF to 67.1 gallons per GSF. Similarly, increasing a facility footprint results in increases in utility use. For each alternative, assumptions were made to forecast impacts to future utility use for comparison to the baseline utility demands to understand potential impacts.

For Alternative A, two scenarios were individually evaluated: 1) the Central Utility Plant (CUP) would continue to supply steam to renovated buildings that received steam from the WLA Campus CUP prior to renovation or replacement, and 2) natural gas supply would decentralize renovated buildings previously receiving steam from the CUP prior to renovation and convert the renovated buildings to use gas-fired equipment. Alternatives C and D were evaluated assuming that new or renovated buildings would all be decentralized from the CUP.

Utility **Data Sources Assumptions** Water Building type water consumption per GSF • Water consumption based on EIA water Supply based on 2012 Commercial Buildings consumption report for 75th percentile of Energy Consumption Survey (CBECS): distribution of building-level intensities Water Consumption in Large Buildings • Factor of 2.37 applied to EIA water Summary consumption estimates to align consumption rates to actual LADWP water utility bill use described in Section 3.14 (PowerSurety, 2018c) Wastewater Average daily wastewater flow and peak Wastewater demand based on 95 percent of flow based on 95 percent of water water demand demand per VA Site Development Design Manual (U.S. Department of Veterans Affairs, 2013) Electrical Estimated electricity consumption from Street lighting based on previous audit which meter data (SCE billing for WLA Campus) captured most of the WLA Campus lighting for specific building types and except for parking lots and building exteriors which was estimated (DAV Energy Solutions, extrapolated to include any non-metered buildings Inc., 2013) **Natural Gas** Natural gas consumption based on WLA Ratio of peak demand to total demand used to Campus Phase I Utility Report peak calculate total thermal load and estimate demand by building (Leo A. Daly, 2017a) natural gas demand for each building

Table 4.14-1. Summary of Utility Data Sources and Assumptions

# 4.14.3 Alternative A (Existing Building Renovations)

Alternative A involves renovations to 33 buildings on the WLA Campus. Renovations would typically be interior upgrades; however, some renovations could impact the exterior and entrances. The footprint of the existing buildings would not change.

Once renovated, the health care buildings on the South Campus would return to their original health care use. Most of the renovated buildings on the North Campus, which currently have a variety of health care, administrative, and other support uses, would change function to become supportive housing units for homeless Veterans. For purposes of this utilities analysis, all Alternative A renovated buildings were modeled for the building type with the highest utility demand of all the proposed future uses, which is an inpatient health care facility.

### 4.14.3.1 Impacts from Construction

Existing utility systems would require alteration as necessary to support the renovation of facilities at the WLA Campus. New utility infrastructure may need to be installed or existing utility systems may require modification to provide upgraded service to the renovated buildings. Utility infrastructure that would no longer be needed would be removed and/or abandoned during the renovation activities. Overall construction impacts to all utilities would be minor with the application of Mitigation Measure UT-2: *Coordinate with Utility Providers*, to ensure utilities are properly located and interruption of services are avoided or minimized.

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# **4.14.3.1.1** *Water Supply*

Implementing Alternative A would require improvements to the existing water distribution system at the WLA Campus to support the added water demand for the renovated facilities. Specifically, supplemental domestic water service connections would be established to provide additional potable water outlets to some of the buildings, and new fire sprinkler system services could be installed to meet NFPA Code requirements. Similarly, the renovated facilities may require additional capacity enhancements such as larger water lines, and water pressure boosters or pump stations to increase pressure in the lines. Renovation activities under Alternative A would be conducted to meet current VA design specifications or applicable state or local building codes.

# 4.14.3.1.2 Sanitary Sewer System

Similar to Section 4.14.3.2.1, Water Supply, implementing Alternative A would require improvements to the existing sanitary sewer distribution system at the WLA Campus to support the added water demand for the renovated facilities. The renovated facilities would require upgrading and replacing existing sewer branch lines to meet the increased demand. In addition, main sewer lines currently under capacity when adjusted for age and condition, as described in Section 3.14, Utilities, would need upgrading or replacing. Renovation activities under Alternative A would be conducted to meet current VA design specifications or applicable state and local building codes, including the utilities infrastructure.

# 4.14.3.1.3 Stormwater Management

Given that renovation activities would occur mostly indoors and the general footprint of the buildings under Alternative A would not change, there are no anticipated impact to the stormwater management system under Alternative A.

### 4.14.3.1.4 Electrical and Natural Gas Supply

Renovation activities for Alternative A would involve the use of mainly hand-held construction equipment (e.g., electrical, battery, or compressed air powered), which would temporarily increase energy consumption and fuel use for the duration of the renovation activities. However, the use of this construction equipment would not significantly affect the existing WLA Campus's utility service systems, such as electricity or natural gas, given the current capacity of these systems. Electrical lines on the WLA Campus are sufficient to support any renovation activities requiring electrical power. Natural gas supply and infrastructure are sufficient to support renovation activities requiring the use of natural gas.

#### 4.14.3.1.5 Solar

Under Alternative A, the renovation of existing buildings on the WLA Campus would not include the installation of new solar PV systems or removal of existing systems. Therefore, there would be no impacts to solar systems resulting from renovation activities under Alternative A.

#### 4.14.3.1.6 Steam and Condensate Return

The proposed renovation activities would not require installation of new steam distribution or condensate return lines. Renovation activities would predominantly involve modifications downstream of the

building service entrance. Existing steam and condensate return lines on the WLA Campus are sufficient to support changes to hourly steam demand driven by renovation activities contemplated by Alternative A.

### 4.14.3.1.7 Communications

Alternative A would upgrade communications systems within the renovated buildings to properly serve the anticipated needs for future building tenants. Existing communications lines on the WLA Campus would be updated within each renovated building.

# 4.14.3.2 Impacts from Operations

Table 4.14-2 provides a summary of the modeled utility use under Alternative A. Baseline modeled annual use is comparable to actual utility use described in Section 3.14, Utilities. Operation of the existing WLA Campus following the completion of Alternative A renovation activities would result in an increase in water, wastewater generation, electricity, communication, and natural gas demands (under a CUP model) to accommodate the increased occupancy and higher utility use of an inpatient health care facility (the most utility intensive future use assumption). There would be a decrease in the use of steam and natural gas under a decentralized model.

Table 4.14-2. Projected WLA Campus Annual Utility Usage Under Alternative A

Utility Type	2017 Actual Use	Baseline Modeled Annual Use	Proj. Annual Use (CUP)	Proj. Annual Use (NatGas)	Proj. Change in Annual Use (CUP)	Proj. Change in Annual Use (NatGas)	Percent Change (CUP)***	Percent Change (NatGas)
Water (M gal per year)	287.9	291	369	369	78	78	27%	27%
Wastewater (M gal per year)	165.2	277	350	350	73	73	26%	26%
Stormwater (gpm)	NA	19,463	19,463	19,463	0	0	0%	0%
Electrical (MWh)	46,707*	56,156	73,709	73,709	17,553	17,553	31%	31%
Solar (MWh)	10,039	10,040	10,040	10,040	0	0	0%	0%
Natural Gas (MMBtu)	242,645	242,000	244,009	187,406	2,009	-54,594	1%	-23%
Steam (Klb)	163,166**	163,166	156,513	97,282	-6,653	-65,884	-4%	-40%

<sup>\*</sup>Based on 2016 given partial data for 2017

Source: (Booz Allen Hamilton, 2018e)

### 4.14.3.2.1 Water Supply

As shown in Table 4.14-2, the baseline modeled water use for the WLA Campus is 291 M gal (0.797 mgd) (Booz Allen Hamilton, 2018e). Based on the 2012 CBECS: Water Consumption in Large Buildings (EIA, 2017), operating renovated facilities assuming future use as a health care facility would result in an increase in annual domestic water use by an estimated 78 M gal per year (0.214 mgd), an increase of 27 percent. Projected water demand would total 369 M gal per year (1.011 mgd). This would be a moderate

<sup>\*\*</sup>Steam consumption modeled given variability in hourly steam use.

<sup>\*\*\*</sup>Percentage change compared to baseline modeled annual use.

increase in water demand for the WLA Campus but a negligible increase for the greater Los Angeles region and would not impact LADWP's ability to supply water to the WLA Campus. The current capacity of the water system, even when adjusted for age and condition, should have sufficient capacity for the increase in demand.

The modeled water estimates shown in Table 4.14-2 assume that the current water consumption rate would continue year over year and that no water conservation measures would be implemented. However, major renovations would comply with Mitigation Measure UT-1: *Apply Sustainable Building Design Standards*, which would incorporate the use of water efficient fixtures and systems. To illustrate the impact of implement water conservation measures on overall water usage, Table 4.14-3 summarizes the projected water demands of Alternative A with adjusted water demands to meet VA SSPP reduction targets through 2025. The VA SSPP establishes water conservation goals of 26 percent by 2020, as compared to the base year (2007) and 36 percent reduction by 2025 (U.S. Department of Veterans Affairs, 2016c). Under Alternative A, the renovated facilities would apply water conservation measures and water-efficient equipment to meet the reduction targets specified in the VA SSPP resulting in an estimated water demand total of 334 M gal per year (0.914 mgd), 35 M gal (0.097 mgd) total savings by 2025.

Table 4.14-3. Projected WLA Campus Domestic Water Use Under Alternative A Through 2025

Projection Type	Current Water Use (M gal)		Increase in Water Use (M gal)		Water Use by 2025 (M gal)	
	Per Year	Per Day	Per Year	Per Day	Per Year	Per Day
Without VA SSPP Reduction Target	291	0.797	78	0.214	369	1.011
With SSPP Reduction Target	291	0.797	43	0.117	334	0.914
Difference between with/without SSPP Reduction Target	0	0	35	0.097	35	0.097

Sources: (Booz Allen Hamilton, 2018e)(EIA, 2018)

### 4.14.3.2.2 Sanitary Sewer System

As shown in Table 4.14-2, the baseline modeled wastewater generation on the WLA Campus is 277 M gal (0.759 mgd). Operating the renovated facilities as health care use would result in an increase in wastewater generation by an estimated 73 M gal per year (0.200 mgd), a 26 percent increase. Projected wastewater generation would total 350 M gal per year (0.959 mgd). This would be a moderate increase in wastewater generation for the WLA Campus, but a negligible increase for the greater Los Angeles region.

As described in Section 3.14, Utilities, many of the sanitary sewer mains, branches, and laterals either exceed design capacity or are near their limits, with age and condition the primary causes for concern. The main north-south sewer line running under Wilshire Boulevard is over 50 percent of its design capacity when adjusted for age and condition; the main lines between Buildings 508 and 256 and Buildings 217 and 116 exceed their capacity when similarly adjusted for age and condition (Booz Allen Hamilton, 2018d). Over one-quarter of the sanitary piping system, specifically on the North Campus, contains defects that require immediate attention, and another 25 percent contain severe defects that would require attention in the near future (Leo A. Daly, 2018). Furthermore, a 2012 sewer report notes cracks in pipes, root blockages, roots in lines, bellying of lines, and debris in sewer lines, as well as other

issues (SWS Engineering & Surveying, Inc., 2012). Additional capacity demand and deteriorated condition would necessitate replacement of large sections of the sanitary lines to meet future demand.

These estimates assume that the current wastewater generation rate would continue year over year and that no water conservation measures would be implemented. However, similar to water supply under Section 4.14.3.2.1, Water Supply, implementing VA SSPP 2015 goals should result in similar wastewater outflow reductions. As such, Alternative A would apply similar conservation measures to wastewater usage to meet the maximum reduction targets specified in the VA SSPP resulting in an estimated total wastewater demand of 316 M gal per year (0.867 mgd), or 34 M gal (0.092 mgd) total savings by 2025. Table 4.14-4 summarizes the projected wastewater generation of Alternative A and adjusted wastewater demand to meet VA SSPP reduction targets through 2025.

Table 4.14-4. Projected WLA Campus Wastewater Generation Under Alternative A Through 2025

Projection Type	Current Wastewater Generation (M gal)		Increase in Wastewater Generation (M gal)		Wastewater Generation by 2025 (M gal)	
	Per Year	Per Day	Per Year	Per Day	Per Year	Per Day
Without VA SSPP Reduction Target	277	0.759	73	0.200	350	0.959
With SSPP Reduction Target	277	0.759	39	0.108	316	0.867
Difference between with/without SSPP Reduction Target	0	0	34	0.092	34	0.092

Source: (Booz Allen Hamilton, 2018e); assumes wastewater is 95 percent of water demand

### 4.14.3.2.3 Stormwater Management System

Operation of renovated facilities under Alternative A would have no effect on the current stormwater management system since there would be minimal change in the footprints or overall green space that could impact stormwater runoff. Peak building stormwater discharge is expected to be 19,463 gpm and would not change as a result of Alternative A. Therefore, there would be no impact from Alternative A operations.

### 4.14.3.2.4 Electrical and Natural Gas Supply

Total modeled electrical consumption for buildings on the WLA Campus is 56,156 MWh. Facilities operations under Alternative A would result in an increase in annual electrical consumption by an estimated 17,553 MWh, or 31 percent over existing consumption. This is primarily because the conservative assumptions in this analysis assume that existing buildings currently serving as residential facilities, administrative offices, and other building types would be repurposed as inpatient health care facilities (the most utility intensive future use assumption). This modeled increase also does not take into account increased efficiencies for remodeled buildings.

Overall energy efficiency would likely improve with the renovations to these older, energy-intensive buildings. Major renovations would comply with Mitigation Measure UT-1: Apply Sustainable Building Design Standards, which would incorporate physical features and operational measures to sustain and improve environmental efficiencies. To illustrate the impact of improving building efficiencies on overall energy and natural gas usage, Table 4.14-5 provides the projected change in energy use intensity (EUI)

for Alternative A with and without implementation of the VA SSPP 30 percent reduction targets for electricity and natural gas usage to reduce GHG emissions. The EUI is a building metric used to compare overall, annual energy use on a unitized basis (per GSF). This metric and formula are shown below:

# EUI = Annual Electrical Use + Annual Natural Gas Use (kiloBTUs [kBTU]) Total Building Area (GSF)

For health care facilities, the EIA provides a median EUI of between 70 and 200 kBtu/GSF. Based on these values and baseline performance of other similar buildings on the WLA Campus, an EUI value of 138 was used to estimate energy use of renovated buildings under Alternative A. This EUI value of 138 reflects the national median projection of energy use for the renovated buildings and does not include any additional provisions for energy efficiencies.

Table 4.14-5 provides the projected consolidated EUI performance for Alternative A relative to the current baseline energy use prior to renovations. The first row of data illustrates these changes based on an EUI representing renovations in line with the EIA national median values (without VA SSPP reductions) assuming a future use as health care facilities, and the corresponding impact to projected electrical consumption. The next row corresponds to projected energy use for renovated buildings that have improved energy performance due to SSPP targets being met.

Implementing Mitigation Measure UT-1 and assuming that the 30 percent VA SSPP reduction targets can be achieved, the increased efficiency of the renovated buildings would result in an aggregated building EUI of 122 and lead to a 4 percent decrease in projected site electricity consumption compared to the current baseline.

**Projected Projected EUI** Projected **Current EUI** Change in EUI with Annual **Projection Type** (kBTU per (kBTU per **Electricity** renovations GSF) Consumption GSF) (kBTU per GSF) Without VA SSPP Reduction 20 73,709 MWh 138 158 Target With SSPP Reduction Target 138 -16 122 53,887 MWh 19,882 MWh Difference

Table 4.14-5. Projected EUI and Electricity Consumption for Alternative A

Source: (Booz Allen Hamilton, 2018e)

Total modeled natural gas baseline consumption for the WLA Campus is 242,000 MMBtu. Operation of renovated facilities under Alternative A were modeled using two different assumptions for heating: 1) centralized heating – use of steam from the CUP, or 2) decentralized heating – use of natural gas at the building level. Assuming the use of centralized steam for building heating needs results in an increase of natural gas consumption (primarily within the steam generation facility) of 2,009 MMBtu. Assuming the decentralized use of natural gas at the building level as the primary fuel of building heating, the natural gas consumption decreases by 54,594 MMBtu. The reduction in natural gas consumption despite a shift toward natural gas fired thermal building load is a result of efficiency savings. Decentralized natural gas equipment would have no intra-building losses of energy as is the case with the steam distribution system.

#### 4.14.3.2.1 Solar

Total solar production for the WLA Campus is estimated at 10,040 MWh annually. Alternative A would not involve removal or installation of solar PV systems. Therefore, there would be no impacts to solar systems on the WLA Campus resulting from Alternative A.

Total solar production for the WLA Campus is estimated at 10,040 MWh annually. Alternative A would not involve removal or installation of solar PV systems. Therefore, there would be no impacts to solar systems on the WLA Campus resulting from Alternative A.

#### 4.14.3.2.2 Steam and Condensate Return

Existing annual steam supplied to the WLA Campus in 2017 was 163,166 kilopounds (Klbs). If the renovated buildings listed in Table 2.2-1 that were on steam prior to renovation remain on steam, steam demand would decrease by an estimated 6,653 Klb, a four percent decrease. Projected steam demand from the CUP would total 156,513 Klbs annually. Renovations to the existing buildings result in a small decrease in the steam demand due to efficiency gains from the updated buildings. However, the steam losses in the current system distribution system would continue. The existing steam distribution system experiences losses as a result of material corrosion and malfunction.

If renovated Alternative A buildings that used CUP steam prior to renovation are instead decentralized off the central plant and served with natural gas-fired equipment, CUP steam requirements are further reduced to 97,282 Klbs annually. This amount of annual steam use decreases CUP requirements by an estimated 59,232 Klb, a 40 percent decrease from the baseline. Projected steam demand would total 142,867 Klb annually. The thermal load would shift to using natural gas within the renovated buildings; therefore, the amount of steam demand and steam losses would decrease (Table 4.14-2).

#### 4.14.3.2.3 Communications

Under Alternative A, communications systems would be upgraded to properly serve the anticipated needs for future tenants. Currently, much of the communications infrastructure on the WLA Campus is over 30 years old and subject to constant repairs and maintenance (Booz Allen Hamilton, 2018d). Renovation of facilities under Alternative A could have a beneficial effect on the current communications offered on the WLA Campus as new communications lines would be incorporated into the building renovations and would provide increased communications access, capacity, speed, and reliability. Therefore, there would be a beneficial impact on communications from Alternative A.

### 4.14.4 Alternative B (Existing Building Demolition)

Alternative B involves full demolition of 33 buildings throughout the WLA Campus and returning the prior building footprint to naturalized, open green space areas. Prior to demolition activities, existing tenants and services would be relocated to other buildings on the WLA Campus. Parking areas, athletic fields, and vacant land are not proposed to be altered under Alternative B.

# 4.14.4.1 Impacts from Construction

Demolition activities for Alternative B would predominantly involve the use of gasoline- and diesel-powered construction equipment, in addition to the use of hand-held construction equipment powered by electricity, batteries, or compressed air. Demolition activities would temporarily increase energy consumption and fuel use for the duration of the construction activities. Construction equipment would be fueled off-site. Impacts of energy consumption by construction vehicles and equipment on WLA Campus utility service systems would be short-term and minor. Construction impacts to all utilities would be minor with the application of Mitigation Measure UT-2: *Coordinate with Utility Providers*, to ensure utilities are properly located and interruption of services are avoided or minimized.

# **4.14.4.1.1** *Water Supply*

Implementing Alternative B would require the removal of water lines and/or burial of water lines in place. Some water lines may remain to service fire hydrants and meet NFPA Code requirements. None of the existing water lines would be constrained or adversely impacted as a result of the demolition activities, and therefore would not require any construction beyond regular O&M type of activities.

# 4.14.4.1.2 Sanitary Sewer System

Implementing Alternative B would require removal of sanitary sewer lines and/or burial of these lines in place. None of the existing sanitary sewer lines would be constrained or adversely impacted from the demolition activities.

# 4.14.4.1.3 Stormwater Management System

Under Alternative B, the demolition of facilities from the WLA Campus footprint and turning these areas into open space would result in a temporary increase in stormwater runoff potential during the construction period, which would be managed in accordance with construction stormwater management techniques. No changes to the stormwater infrastructure is anticipated.

### 4.14.4.1.4 Electrical and Natural Gas Supply

Demolition activities would temporarily increase energy consumption and fuel use for the duration of the construction activities. Gasoline- and diesel-powered construction equipment would be needed to perform the demolition activities and these activities would remove existing electrical connections and natural gas lines. Electrical and natural gas service would remain on the WLA Campus for existing buildings not proposed for demolition. None of the remaining electrical or natural gas lines would be constrained or adversely impacted by the demolition activities.

#### 4.14.4.1.5 Solar

Alternative B would demolish existing buildings on the WLA Campus and convert the building footprints into open, green space areas. These activities would remove any existing solar PV arrays found on building rooftops or associated parking lots. Four buildings would require removal of existing rooftop solar arrays (Buildings 222, 304, 401, and 500). Solar arrays would remain on the WLA Campus for

existing arrays not proposed for demolition. The remaining solar arrays that are not part of the demolition action would not be constrained or adversely impacted by the demolition activities.

#### 4.14.4.1.6 Steam and Condensate Return

Alternative B would involve complete demolition of existing buildings on the WLA Campus to open, green space areas. These activities would remove existing steam and condensate return connections. Steam service would remain on the WLA Campus for existing buildings not proposed for demolition. None of the remaining steam supply and condensate return system lines would be constrained or adversely impacted by the demolition activities.

### **4.14.4.1.7** *Communications*

Demolition activities would remove certain existing communications systems and connections. Communications service would remain on the WLA Campus for existing buildings not proposed for demolition. None of the remaining communications lines would be constrained or adversely impacted by the demolition activities.

# 4.14.4.2 Impacts from Operations

Alternative B would result in overall utility reduction on the WLA Campus and a general beneficial impact. The utility demand for demolished facilities would drop to zero. A summary of the change in utility demand across the WLA Campus under Alternative B is provided in Table 4.14-6. Baseline modeled annual use is comparable to actual utility use described in Section 3.14, Utilities.

Table 4.14-6. Projected WLA Campus Utility Demand Under Alternative B

Utility Type	2017 Actual Use	Baseline Modeled Annual Use	Projected Demand	Projected Decrease in Demand	Percent Decrease***
Water (M gal per year)	287.9	291	62	-229	-79%
Wastewater (M gal per year)	165.2	277	59	-218	-79%
Stormwater (gpm)	NA	19,463	9,197	-10,266	-53%
Electrical (MWh)	46,707*	56,156	12,639	-43,517	-77%
Solar (MWh)	10,039	10,040	9,427	-613	-6%
Natural Gas (MMBtu)	242,645	242,000	56,705	-185,295	-77%
Steam (Klb)	163,166**	163,166	34,626	-128,540	-79%

<sup>\*</sup>Based 2016 given partial data for 2017

Source: (Booz Allen Hamilton, 2018e)

### **4.14.4.2.1** *Water Supply*

The baseline modeled domestic water use for the WLA Campus was 291 M gal (0.797 mgd) (Booz Allen Hamilton, 2018d). Removing the 33 demolished facilities from the WLA Campus footprint and reverting that space to open areas results in a decrease in water use by an estimated 229 M gal per year (0.627 mgd), equivalent to 79 percent. There would be slight increase in water use tied to irrigation for grass;

<sup>\*\*</sup>Steam consumption modeled given variability in hourly steam use

 $<sup>\</sup>ensuremath{^{***}}\xspace$  Percentage decrease as compared to baseline modeled annual use

however, the impact would be minimal when compared to the water savings from the removal of facilities from the water system. Projected domestic water use would total 62 M gal per year (0.170 mgd). This would be a meaningful decrease in water use for the WLA Campus, but a negligible decrease for the greater Los Angeles region.

# 4.14.4.2.2 Sanitary Sewer System

The baseline modeled wastewater generation for the WLA Campus was 277 M gal (0.759 mgd) (Booz Allen Hamilton, 2018e). Removing the 33 demolished facilities from the WLA Campus footprint and reverting that space to open, green space areas would result in a decrease in wastewater generation by an estimated 218 M gal per year (0.597 mgd), a 79 percent decrease. Projected wastewater generation would total 59 M gal per year (0.162 mgd). This would be a meaningful decrease in wastewater for the WLA Campus but negligible for the greater Los Angeles region.

Many of the constraint points identified in Section 3.14 would no longer be an issue given the decrease in wastewater demand. Specifically, the north-south sewer line running under Wilshire Boulevard which is over 50 percent of its design capacity when adjusted for age and condition (feeding Buildings 508 and 256) would no longer be under capacity when adjusted for age and condition. However, much of the lines previously identified as having cracks in pipes, root blockages, roots in lines, bellying of lines, and debris would need still need to be addressed if the lines are not abandoned (SWS Engineering & Surveying, Inc., 2012).

# 4.14.4.2.3 Stormwater Management System

Removing facilities from the WLA Campus footprint and turning these areas into open, green space areas would result in a reduction in stormwater runoff and a net positive impact on the stormwater management system. Stormwater runoff would decrease from 19,463 gpm to 9,197 gpm, a 10,266 gpm or 53 percent decrease. This would be a meaningful decrease in stormwater for the WLA Campus, but a negligible decrease for the greater Los Angeles region. Removing buildings on the South Campus (such as Buildings 500, 501, 507, 402, 401, 304, and 345) would result in reduced stormwater running into the Ohio Avenue and Purdue Avenue storm drain system. This would reduce the flow under the 50-year storm event currently identified as a constraint in Section 3.14.2

# 4.14.4.2.4 Electrical and Natural Gas Supply

Alternative B would result in a meaningful decrease in electrical demand due to the reduction in number of buildings and, therefore, a decrease in the overall electrical demand load. The baseline modeled electrical consumption for the WLA Campus is 56,156 MWh (Booz Allen Hamilton, 2018d). Removing the 33 demolished facilities from the WLA Campus footprint and reverting that space to open, green space areas would result in a decrease in electrical demand by an estimated 43,517 MWh, a 77 percent decrease. Projected electrical consumption would total 12,639 MWh.

Alternative B would result in a meaningful decrease in natural gas consumption on the WLA Campus due to the reduction in buildings and, therefore, a reduction in the need for natural gas heating or steam production which is natural gas fueled. The baseline natural gas demand for the WLA Campus was 242,000 MMBtu (Booz Allen Hamilton, 2018d). The demolition of facilities from the WLA Campus

results in a decrease in natural gas consumption by an estimated 185,295 MMBtu, a 77 percent decrease. Projected natural gas demand would total 56,705 MMBtu.

#### 4.14.4.2.5 Solar

Solar production would decrease slightly under Alternative B. Baseline solar production for the WLA Campus is 10,040 MWh (Booz Allen Hamilton, 2018d). Removing the rooftop solar associated with the four demolished buildings, and reverting that space to open, green space areas results in a decrease in solar production by an estimated 613 MWh, a 6 percent decrease. Projected solar production would total 9.427 MWh.

### 4.14.4.2.6 Steam and Condensate Return

The reduction in the total number of buildings on the steam distribution system would result in a meaningful decrease in the system load. Existing steam demand for the WLA Campus is 163,166 Klb. Removing facilities from the WLA Campus footprint and reverting them into open, green space areas results in a decrease in steam demand by an estimated 128,540 Klb, a 79 percent decrease. Projected steam demand would total 34,626 Klb annually. The steam supply and condensate return system currently experiences losses as a result of material corrosion and malfunction.

### 4.14.4.2.7 Communications

Overall, the amount of communications infrastructure and demand on communication systems would decrease as a result of Alternative B. With the demolition of the existing buildings, communications infrastructure would decrease, and the amount of upkeep and maintenance would also decrease with the reduction in number of buildings. However, the remaining communications infrastructure would still require maintenance, which may be extensive due to age and condition.

### 4.14.5 Alternative C (Demolition and New Construction)

Alternative C involves demolition and replacement of 33 buildings throughout the WLA Campus with new construction to support future use activities. Prior to demolition activities, existing tenants and services would be relocated to other buildings on the WLA Campus. Alternative C also involves construction of new units of supportive housing in current parks and open areas of the North Campus, and construction of a new town center. As described in Alternative A, while the replacement facilities in the South Campus are expected retain their health care functions, the future use of the replacement facilities in the North Campus is not yet fully defined. Therefore, for the purposes of this alternative as a maximum development scenario, all new facilities were modeled to a future use as an inpatient health care facility, which has a higher utility load than administrative office space, warehouse, and residential.

### 4.14.5.1 Impacts from Construction

Alternative C demolition and construction activities would involve the use of gasoline- and diesel-powered construction equipment, in addition to the use of hand-held construction equipment powered by electricity, batteries, or compressed air. Demolition activities would temporarily increase energy consumption and fuel use for the duration of the construction activities. Construction equipment would

be refueled off-site. Impacts of energy consumption by construction vehicles and equipment on utility service systems would be short-term and minor.

New utility infrastructure would need to be installed and existing utility systems may require modification to provide upgraded service to the renovated buildings. Construction impacts to all utilities would be minor with the application of Mitigation Measure UT-2: *Coordinate with Utility Providers*, to ensure utilities are properly located and interruption of services are avoided or minimized.

# 4.14.5.1.1 *Water Supply*

Implementing Alternative C would require construction activities tied to improvements to the existing water distribution system at the WLA Campus because of current water capacity constraints. Improvements to the water supply system would involve removal and replacement of existing water lines to provide adequate potable water and fire suppression water to the new buildings to meet VA design specifications and state/local building codes as well as industry standards (e.g., NFPA). This could include installation of water pressure boosters or pump stations to ensure adequate water pressure at the new facilities.

# 4.14.5.1.2 Sanitary Sewer System

Implementing Alternative C would require improvements to the existing sanitary sewer system at the WLA Campus to allow for the increased wastewater outflow demand. As described in Section 3.14.2.2, Sanitary Sewer System, sewer lines on the WLA Campus vary in age from 10 years to over 80 years old with their condition in good, fair, and poor for the older lines. Many of the sanitary sewer mains, branches, and laterals either exceed design capacity or are near their limits, with age and condition the primary causes for concern. The main north-south sewer line running under Wilshire Boulevard is over 50 percent of its design capacity when adjusted for age and condition; the main lines between Buildings 508 and 256 and Buildings 217 and 116 exceed their capacity when similarly adjusted for age and condition (Booz Allen Hamilton, 2018d). Existing sewer lines have been reported to have cracks in pipes, root blockages, roots in lines, bellying of lines, and debris in sewer lines, as well as other issues (SWS Engineering & Surveying, Inc., 2012). There are also existing abandoned sewer lines in various locations throughout the WLA Campus (Leo A. Daly, 2017).

Improvements to the sanitary sewer system would involve installing new and upgrading existing sewer lines to ensure adequate sizing. These construction activities would be short-term and have relatively minor impact. Construction activities would include heavy equipment including excavators, backhoes, etc. Construction impacts would be less than significant and result in air pollution and noise from equipment usage (see Sections 4.3.5 and 4.7.5 for discussion of those impacts).

# 4.14.5.1.3 Stormwater Management System

Alternative C involves construction activities in open, green space areas that will result in an increase in the amount of stormwater runoff on the WLA Campus (see Section 4.14.5.1.3, Stormwater Management System). As a result, the stormwater management system would need to be expanded to manage the additional runoff. Because the net new footprint is greater than 5,000 GSF, VA would be required to comply with Section 438 of the EISA and to implement LID techniques. Examples of LID techniques

include bioretention areas, permeable pavements, cisterns/recycling, and green roofs. LID techniques must mimic predevelopment stormwater runoff conditions by using site design techniques that store, infiltrate, evaporate, and detain runoff. A 2017 stormwater analysis report for the South Campus identified the installation of an underground retention system connected to dry wells as the most likely best option to manage expected runoff for the South Campus (Leo A. Daly, 2017a). Additional study is currently underway to fully assess the best options. Associated construction activities would include heavy equipment including excavators, backhoes, etc., resulting in limited and short-term noise and air pollution as a result of the equipment usage.

# 4.14.5.1.4 Electrical and Natural Gas Supply

Alternative C demolition and construction activities would involve the use of gasoline- and diesel-powered construction equipment, in addition to the use of hand-held construction equipment powered by electricity, batteries, or compressed air. Demolition activities would temporarily increase energy consumption and fuel use for the duration of the construction activities. Construction equipment would be refueled off site. Impacts of energy consumption by construction vehicles and equipment on utility service systems would be short-term and minor.

Gasoline- and diesel-powered construction equipment and hand-held construction equipment powered by electricity, batteries, or compressed air would be needed to perform the construction activities. Demolition impacts would be small, localized, and short-term. Improvements to the electrical and natural gas systems could involve renovating or upgrading existing lines to ensure adequate sizing and connections. These construction activities would be short-term and have relatively minor impact.

### 4.14.5.1.5 Steam and Condensate Return

Demolition activities would be followed by replacement of older, energy-intensive systems with newly constructed and more energy-efficient facilities. Gasoline- and diesel-powered construction equipment and hand-held construction equipment powered by electricity, batteries, or compressed air would be needed to perform the construction activities. Demolition impacts would be small, localized, and short-term. Construction activities would be short-term and have relatively minor impact.

### 4.14.5.1.6 Communications

Alternative C involves full demolition of individual buildings throughout the WLA Campus with new construction of buildings to support future use activities. Communications systems for new construction would be updated. Ground disturbance may occur from the deployment of fiberoptic cable that is generally placed in a trench underground or via aerial lines. Construction activities would be short-term and have relatively minor impact.

# 4.14.5.2 Impacts from Operations

The planned and future use of the WLA Campus under Alternative C would result in changes to utility demand. Operation of the existing WLA Campus following the completion of Alternative C would result in an increase in water, wastewater generation, electricity, and natural gas demands (Table 4.14-7). This results from the increased utility load for the demolished and replaced facilities, which were modeled as

health care facilities that typically have a higher utility demand, as well as the additional construction. There would be a decrease in steam demand because this alternative assumes that all new construction would be decentralized from the CUP.

Table 4.14-7. Projected WLA Campus Utility Demand Under Alternative C

Utility Type	2017 Actual Use	Baseline Modeled Annual Use	Projected Demand	Projected Change in Demand	Percent Change***
Water (M gal per year)	287.9	291	695	404	139%
Wastewater (M gal per year)	165.2	277	660	383	138%
Stormwater (gpm)	NA	19,463	35,590	16,127	83%
Electrical (MWh)	46,707*	56,156	112,406	56,250	100%
Solar (MWh)	10,039	10,040	8,989	-1,051	-10%
Natural Gas (MMBtu)	242,645	242,000	246,422	4,422	2%
Steam (Klb)	163,166**	163,166	40,443	-122,723	-75%

<sup>\*</sup>Based 2016 given partial data for 2017

Source: (Booz Allen Hamilton, 2018e)

### 4.14.5.2.1 Water Supply

The baseline modeled domestic water use for the WLA Campus is 291 M gal (0.797 mgd) (Booz Allen Hamilton, 2018e). Demolition and new construction of individual buildings throughout the WLA Campus to support future use activities results in an increase in water demand by an estimated 404 M gal per year (1.107 mgd), a 139 percent increase. Projected water use would total 695 M gal per year (1.904 mgd). This would be a significant increase in domestic water use for the WLA Campus, but negligible for the greater Los Angeles region. The main WLA Campus water system, even when adjusted for age and condition, has sufficient capacity to support the increase in demand. However, given the inadequate building-level pressure in certain facilities, as described in Section 3.14, Utilities, additional pumps or boosters would be needed to ensure adequate pressure for all buildings.

Under the VA SSPP, Alternative C would apply water conservation measures to newly constructed buildings resulting in an estimated total water demand of 628 M gal per year (1.721 mgd), with total water savings of 67 M gal per year (0.183 mgd) by 2025. Table 4.14-8 summarizes the projected water demands of Alternative C and adjusted demand to meet VA SSPP reduction targets through 2025.

Table 4.14-8. Projected WLA Campus Domestic Water Use Under Alternative C Through 2025

Projection Type	Current Water Use (M gal)		Increase in Water Use (M gal)		Water Use by 2025 (M gal)	
	Per Year	Per Day	Per Year	Per Day	Per Year	Per Day
Without VA SSPP Reduction Target	291	0.797	404	1.107	695	1.904
With SSPP Reduction Target	291	0.797	337	0.924	628	1.721
Difference between with/without SSPP Reduction Target	0	0	67	0.183	67	0.183

Source: (Booz Allen Hamilton, 2018e)

<sup>\*\*</sup>Steam consumption modeled given variability in hourly steam use

<sup>\*\*\*</sup>Percentage change compared to baseline modeled annual use.

# 4.14.5.2.2 Sanitary Sewer System

Under Alternative C, the WLA Campus would experience an increase in wastewater generation by an estimated 383 M gal per year (1.049 mgd), a 138 percent increase. Projected wastewater generation would total 660 M gal per year (1.808 mgd). As described in Section 3.14, Utilities, many of the sanitary sewer mains, branches, and laterals on the WLA Campus either exceed design capacity or are near their limits, with age and condition the primary causes for concern. The main north-south sewer line running under Wilshire Boulevard is over 50 percent of its design capacity when adjusted for age and condition; the main lines between Buildings 508 and 256 and Buildings 217 and 116 exceed their capacity when similarly adjusted for age and condition (Booz Allen Hamilton, 2018d). Furthermore, a 2012 sewer report notes cracks in pipes, root blockages, roots in lines, bellying of lines, and debris in sewer lines, as well as other issues (SWS Engineering & Surveying, Inc., 2012). Additional capacity demand would necessitate replacement of large sections of the sanitary lines to meet future demand. This would be a meaningful increase in wastewater generation for the WLA Campus, but only a negligible increase for the greater Los Angeles region.

Implementing the VA SSPP goals for Alternative C would result in future wastewater outflow demand total of 597 M gal per year (1.634 mgd), with 63 M gal per year (0.174 mgd) in total saving by 2025. Table 4.14-9 summarizes the projected sanitary sewer demands under Alternative C and adjusted demand to meet SSPP reduction targets through 2025.

Table 4.14-9. Projected WLA Campus Wastewater Generation Under Alternative C Through 2025

Projection Type	Current Wastewater Generation (M gal)		Increase in Wastewater Generation (M gal)		Total Wastewater Generation by 2025 (M gal)	
	Per Year	Per Day	Per Year	Per Day	Per Year	Per Day
Without VA SSPP Reduction Target	277	0.759	383	1.049	660	1.808
With SSPP Reduction Target	277	0.759	320	0.876	597	1.634
Difference between with/without SSPP Reduction Target	0	0	63	0.174	63	0.174

Source: (Booz Allen Hamilton, 2018d)

### 4.14.5.2.3 Stormwater Management System

Under Alternative C, the Proposed Action activities are projected to increase *building-only* generated stormwater runoff by 83 percent, from 19,463 gpm currently to 35,590 gpm, and is attributed to the additional impervious cover and loss of open grassy areas. Based on a previous hydraulic analysis, the 10-year peak stormwater flow for the WLA Campus is 248,635 gpm. New building impervious cover constructed under Alternative C is therefore projected to increase site stormwater runoff to 264,762 gpm or an increase of 6.1 percent. This would result in a minor increase in stormwater runoff for the WLA Campus as many of the construction projects are generally planned within existing buildings site areas or parking lots, which are already impervious. Some existing open grassy areas may be disturbed. However, this would be a negligible increase for the greater Los Angeles region. Stormwater discharges would continue to be covered under the WLA Campus's existing MS4 permit.

In addition, appropriate stormwater management controls would be required to ensure compliance with VA design requirements or applicable state and local codes. All projects would comply with Mitigation Measure WQ-2, *Use Low Impact Development (LID) Techniques*. Possible LID techniques could include bioretention areas, permeable pavements, cisterns/recycling, and green roofs. In addition, some paved areas, parking lots, or roads could be removed or made permeable to increase infiltration of water. LID techniques must mimic predevelopment stormwater runoff conditions by using site design techniques that store, infiltrate, evaporate, and detain runoff. In addition, VA projects with a footprint greater than 5,000 GSF require compliance Section 438 of the EISA. Under EISA, VA must implement strategies that ensure the property maintains or restores, to the maximum extent technically feasible, the predevelopment hydrology of the property with regard to the temperature, rate, volume, and duration of stormwater flow. A 2017 stormwater analysis report for the South Campus identified installation of an underground retention system connected to dry wells as the best option to manage expected runoff on the South Campus (Leo A. Daly, 2017a). Additional study is currently underway to fully assess the best runoff management options.

### 4.14.5.2.4 Electrical and Natural Gas Supply

Alternative C would result in a meaningful increase in electrical demand from the new buildings, and thus an increase in total overall electrical load on the WLA Campus. The baseline modeled electrical consumption for the WLA Campus is 56,156 MWh. Under Alternative C, the WLA Campus would experience an increase in electrical demand by an estimated 56,250 MWh, a 100 percent increase. Projected electrical consumption would total 112,406 MWh (Booz Allen Hamilton, 2018e), assuming no increased efficiencies from new construction.

The proposed demolition would be followed by replacement of older, energy-intensive systems with newly constructed and more energy-efficient facilities. Alternative C projects would include Mitigation Measure UT-1, *Apply Sustainable Building Design Standards*, which include energy conservation measures. Table 4.14-11 provides the projected change in EUI for Alternative C with and without implementation of VA SSPP targets (30 percent reduction in electricity and natural gas usage). Implementing Mitigation Measure UT-1, and assuming that the VA SSPP reduction targets can be achieved, the projected demand for operations under Alternative C would increase electricity consumption at the WLA Campus by an estimated 42 percent over existing consumption (increase to 79,648 MWh per year). The reason for the increase, even with increased efficiencies, are the additional buildings added to the WLA Campus.

Without achieving VA SSPP reduction targets, the projected building energy performance under Alternative C would decrease from an aggregated EUI of 138 to 115 due to the higher efficiency of the newly constructed buildings. However, the WLA Campus would still experience an increase in electricity consumption by an estimated 100 percent over existing consumption to 112,406 MWh per year. With the achievement of the VA SSPP targets for the new buildings under Alternative C, the increased building efficiency would result in an aggregated building EUI of 106 and lead to a 42 percent increase in projected site electricity consumption compared to the current baseline

Table 4.14-10. Projected EUI and Electricity Consumption for Alternative C

Projection Type	Current EUI (kBTU per GSF)	Projected Change in EUI (kBTU/GSF)	Projected Total EUI (kBTU per GSF)	Projected Annual Electricity Consumption
Without VA SSPP Reduction Target	138	-23	115	112,406 MWh
With SSPP Reduction Target	138	-32	106	79,648 MWh
Difference				32,758 MWh

Source: (Booz Allen Hamilton, 2018d)

There is not enough capacity available for the increase in new loads on the SCE incoming service feeders in Alternative C (Table 4.14-8). The need to maintain redundant electrical services and available capacity to many of the large critical loads on the WLA Campus and the potential for PV generation outages create conditions where peak onsite loads are greater than primary SCE service capabilities. Similarly, the existing South Campus substation does not have available capacity for any new loads. The North Campus substation potentially has 2 MW available for new loads provided the incoming service feeder has the necessary available capacity. However, this substation would not be capable of supporting a 42 to 100 percent increase in new loads. Upgrade options include two new underground SCE circuits into a new VA service substation to feed facilities on the South Campus.

Alternative C results in a small decrease in natural gas consumption on the WLA Campus as new buildings are planned to run on decentralized natural gas versus centralized steam. The baseline natural gas demand for the WLA Campus is 242,000 MMBtu. Under Alternative C, the WLA Campus would experience a similar natural gas demand of an estimated 246,422 MMBtu, a two percent increase (Booz Allen Hamilton, 2018e). The new facilities natural gas demand would make up for the reduced natural gas demand from the central steam plant (Building 299), the largest consumer of natural gas on the WLA Campus.

The two percent increase in natural gas consumption would not require any infrastructure improvements to the incoming natural gas service. The largest consumer of natural gas onsite is the central steam plant (Building 299), which has a dedicated 8-inch line directly from the incoming natural gas city gate and does not draw upon the larger WLA Campus gas distribution network. This network consists of mains and major branches comprised of 3-inch and 4-inch piping which will likely be sufficient for the two percent increase.

#### 4.14.5.2.5 Solar

Solar production would decrease as a result of Alternative C. Baseline solar production for the WLA Campus is 10,040 MWh (Booz Allen Hamilton, 2018e). Alternative C involves removal of solar arrays and although new buildings would be constructed, the worst-case analysis assumes these solar arrays are not replaced. A decrease in solar production by an estimated 1,051 MWh (10 percent) would result. No new solar PV systems are planned to be installed. Projected solar production would total 8,989 MWh.

#### 4.14.5.2.6 Steam and Condensate Return

Annual steam supplied to the WLA Campus is 163,166 Klbs. Alternative C would result in a decrease in steam demand by an estimated 122,723 Klb, a 75 percent decrease. Projected steam demand would total 40,443 Klb from Alternative C is a result of the construction of new buildings decentralized off the WLA Campus CUP and individually served building thermal loads with natural gas-fired equipment (Booz Allen Hamilton, 2018e). While decreased reliance on the steam system overall is beneficial, the continued use of the steam condensate system would experience a net negative effect of losses from material corrosion and malfunction, which is an inefficiency.

#### 4.14.5.2.7 Communications

The newly constructed buildings on the WLA Campus would have updated communications infrastructure that would provide significant improvements to the existing older infrastructure that requires ongoing maintenance. As a result of Alternative C, the new communications infrastructure would be efficient and reliable, and would result in less overall impact to electrical systems and would require less maintenance.

# 4.14.6 Alternative D (Renovation, Demolition, and New Construction)

Under Alternative D, there would be a combination of renovations, demolition, and replacement of the 33 buildings listed in Table 2.2-1 that are targeted for improvement. In addition, new construction of supportive housing and a town center is projected on existing parking areas, athletic fields, and vacant lands on the WLA Campus. Although the specific future facility uses are not known for the existing 33 buildings under Alternative D, future building uses would be a mix of mainly supportive housing with some possible administrative and other uses. Although the same modeling assumptions were made from Alternative C, Alternative D would not result in all of the replacement buildings as inpatient health care facilities with higher energy demands. Alternative D would likely have reduced energy demands in comparison to Alternative C because Alternative D would include a mix of building types having lower energy demands than the inpatient health care facilities modeled in Alternative C. However, the exact reduction in energy use as compared to Alternative C is unknown without specific information on future building types.

### 4.14.6.1 Impacts from Construction

Construction activities for Alternative D would involve the use of gasoline-powered construction equipment and hand-held equipment, which would temporarily increase energy consumption and fuel use for the duration of the construction activities. Construction equipment would be fueled off site. Construction impacts to all utilities would be minor with the application of Mitigation Measure UT-2: *Coordinate with Utility Providers*, to ensure utilities are properly located and interruption of services are avoided or minimized. Descriptions of the specific utility impacts are described below.

### **4.14.6.1.1** *Water Supply*

Implementing Alternative D would require improvements to the existing water distribution system at the WLA Campus because of current water capacity constraints. Similar to Alternative C, Alternative D would require improvements to the water system such as removal and replacement of existing water lines

to provide adequate potable water and fire suppression water to the renovated buildings per VA, state, and local building codes and design specifications, as well as industry standards (e.g., NFPA). Construction activities could also include installing water pressure boosters or pump stations to ensure adequate water pressure at the new facilities. Construction activities would be short-term and have relatively minor impact.

# 4.14.6.1.2 Sanitary Sewer System

As described in Section 3.14.2.2, sewer lines on the WLA Campus vary in age from 10 years to over 80 years old with their condition in good, fair, and poor for the older lines. Many of the sanitary sewer mains, branches, and laterals either exceed design capacity or are near their limits, with age and condition the primary causes for concern. The main north-south sewer line running under Wilshire Boulevard is over 50 percent of its design capacity when adjusted for age and condition; the main lines between Buildings 508 and 256 and Buildings 217 and 116 exceed their capacity when similarly adjusted for age and condition (Booz Allen Hamilton, 2018d). Existing sewer lines have been reported to have cracks in pipes, root blockages, roots in lines, bellying of lines, and debris in sewer lines, as well as other issues (SWS Engineering & Surveying, Inc., 2012). There are also existing abandoned sewer lines in various locations throughout the WLA Campus (Leo A. Daly, 2017).

### 4.14.6.1.3 Stormwater Management System

Alternative D also involves construction activities in existing open, green space areas resulting in an increase in the amount of stormwater runoff on the WLA Campus. As a result, the stormwater management system would need to be expanded to manage the additional runoff. Similar to Alternative C, Alternative D would implement Mitigation Measure WQ-2, *Use Low Impact Development (LID) Techniques*, to retain stormwater runoff an mimic predevelopment runoff conditions. In addition, VA would be required to comply with Section 438 of the EISA for any projects with a net new footprint greater than 5,000 GSF. A 2017 stormwater analysis report for the South Campus identified installation of an underground retention system connected to dry wells as the most likely best option to manage expected runoff on the South Campus (Leo A. Daly, 2017a). Additional study is currently underway to fully assess the best runoff management options.

### 4.14.6.1.4 Electrical and Natural Gas

The proposed renovation, demolition, and new construction would replace older, energy-intensive systems with more energy-efficient equipment or newly constructed facilities. Construction equipment powered by gasoline, electricity, batteries, or compressed air would be needed to perform the construction activities. Improvements to the electrical and natural gas systems could involve renovating or upgrading existing lines to ensure adequate sizing and connections. These construction activities would be short-term and have relatively minor impact.

#### 4.14.6.1.5 Steam and Condensate Return

The proposed renovation, demolition, and new construction would replace older, energy-intensive systems with more energy-efficient equipment and newly constructed facilities. Construction equipment

powered by gasoline, electricity, batteries, or compressed air would be needed to perform the construction activities. Construction activities would be short-term and have relatively minor impact.

#### **4.14.6.1.6** *Communications*

The renovated and newly constructed buildings would receive updated communications systems. Ground disturbance may occur from the deployment of fiberoptic cable that is generally placed in a trench underground or via aerial lines. Construction activities would be short-term and have relatively minor impact.

# **4.14.6.2 Impacts from Operations**

The impacts from operations under Alternative D would be similar to but no greater than those described for Alternative C. Table 4.14-11 summarizes the change in utility demand under Alternative D.

Table 4.14-11. Projected	WLA Campus Utility	Demand Under Alternative D

Utility Type	2017 Actual Use	Baseline Modeled Annual Use	Projected Demand	Projected Change in Demand	Percent Change***
Water (M gal per year)	287.9	291	695	404	139%
Wastewater (M gal per year)	165.2	277	660	383	138%
Stormwater (gpm)	NA	19,463	35,590	16,127	83%
Electrical (MWh)	46,707*	56,156	112,406	56,250	100%
Solar (MWh)	10,039	10,040	8,989	-1,051	-10%
Natural Gas (MMBtu)	242,645	242,000	246,422	4,422	2%
Steam (Klb)	163,166**	163,166	40,443	-122,723	-75%

<sup>\*</sup>Based 2016 given partial data for 2017

Source: (Booz Allen Hamilton, 2018e)

# 4.14.6.2.1 Water Supply

The baseline domestic water use for the WLA Campus is 291 M gal (0.797 mgd) (Booz Allen Hamilton, 2018e). Similar to Alternative C, full demolition and new construction of buildings results in an increase in water use by an estimated 404 M gal per year (1.107 mgd), a 139 percent increase. Projected domestic water use for Alternative D would total less than 695 M gal per year (1.904 mgd) with the anticipated mix of future facility uses. Although this would be a significant increase in water use for the WLA Campus, this water use would be negligible for the greater Los Angeles region. The main WLA Campus water system, even when adjusted for age and condition, has sufficient capacity to support the increase in demand. Given the inadequate building-level pressure in certain facilities, as described in Section 3.14, Utilities, additional pumps or boosters would be needed to ensure adequate pressure for all buildings.

Under the VA SSPP 2015 scenario, Alternative D would apply water conservation measures to future buildings resulting in an estimated maximum total water demand of 628 M gal per year (1.721 mgd), a

<sup>\*\*</sup>Steam consumption modeled given variability in hourly steam use

<sup>\*\*\*</sup>Percentage change compared to baseline modeled annual use.

total savings of 67 M gal per year (0.183 mgd) by 2025. Table 4.14-12 summarizes the projected water demands of Alternative D and adjusted to meet SSPP reduction targets through 2025.

Table 4.14-12. Projected WLA Campus Domestic Water Use Under Alternative D Through 2025

Projection Type	Current Water Use (M gal)		Increase in Water Use (M gal)		Water Use by 2025 (M gal)	
	Per Year Per Day		Per Year	Per Day	Per Year	Per Day
Without VA SSPP Reduction Target	291	0.797	404	1.107	695	1.904
With SSPP Reduction Target	291	0.797	337	0.924	628	1.721
Difference between with/without SSPP Reduction Target	0	0	67	0.183	67	0.183

Source: (Booz Allen Hamilton, 2018d)

# 4.14.6.2.2 Sanitary Sewer System

Under Alternative D, to account for greatest potential impacts, full demolition and new construction of buildings throughout the WLA Campus has been modeled with similar impact as Alternative C. Wastewater generation increases by an estimated 383 M gal per year (1.049 mgd), a 138 percent increase. Projected wastewater generation would total less than 660 M gal per year (1.808 mgd) with the anticipated mix of future facility uses. As described in Section 3.14, Utilities, many of the sanitary sewer mains, branches, and laterals either exceed design capacity or are near their limits, with age and condition the primary causes for concern. The main north-south sewer line running under Wilshire Boulevard is over 50 percent of its design capacity when adjusted for age and condition; the main lines between Buildings 508 and 256 and Buildings 217 and 116 exceed their capacity when similarly adjusted for age and condition (Booz Allen Hamilton, 2018d). Furthermore, a 2012 sewer report noted cracks in pipes, root blockages, roots in lines, bellying of lines, and debris in sewer lines, as well as other issues (SWS Engineering & Surveying, Inc., 2012). Additional capacity demand would necessitate replacement of large sections of the sanitary lines to meet future demand. This would be a meaningful increase in wastewater generation for the WLA Campus, but a negligible increase for the greater Los Angeles region.

Implementing the VA SSPP 2015 goals in Alternative D would result in future maximum total wastewater generation of 597 M gal per year (1.634 mgd), with a total savings of 63 M gal per year (0.174 mgd) by 2025. Table 4.14-13 summarizes the projected water demands of Alternative D and adjusted to meet VA SSPP reduction targets through 2025.

Table 4.14-13. Projected Wastewater Generation for Alternative D Through 2025

Projection Type	Current Wastewater Generation (M gal)		Increase in Wastewater Generation (M gal)		Wastewater Generation by 2025 (M gal)	
	Per Year	Per Day	Per Year	Per Day	Per Year	Per Day
Without VA SSPP Reduction Target	277	0.759	383	1.049	660	1.808
With SSPP Reduction Target	277	0.759	320	0.876	597	1.634

Projection Type	Current Wastewater Generation (M gal)		Increase in Wastewater Generation (M gal)		Wastewater Generation by 2025 (M gal)	
	Per Year	Per Day	Per Year	Per Day	Per Year	Per Day
Difference between with/without SSPP Reduction Target	0	0	63	0.174	63	0.174

Source: (Booz Allen Hamilton, 2018e)

# 4.14.6.2.3 Stormwater Management System

Under Alternative D, the Proposed Action activities are projected to increase *building-only* generated stormwater runoff up to 83 percent from 19,463 gpm currently to 35,590 gpm and is attributed to the additional impervious cover and loss of open grassy areas. Based on a previous hydraulic analysis, the 10-year peak stormwater flow for the WLA Campus is 248,635 gpm. Similar to Alternative C, impervious cover constructed under Alternative D is projected to increase site stormwater runoff up to 264,762 gpm (6.1 percent increase). This would result in a minor increase in stormwater runoff for the WLA Campus as many of the construction projects are generally planned within existing buildings footprints or parking lots, which are already impervious. Some existing open grassy areas may be disturbed. However, this would be a negligible increase for the greater Los Angeles region. Stormwater discharges would continue to be covered under the WLA Campus's existing NPDES MS4 permit.

In addition, appropriate stormwater management controls would be required to ensure compliance with VA design requirements or applicable state and local codes. All projects would comply with Mitigation Measure WQ-2, *Use Low Impact Development (LID) Techniques*. Possible LID techniques could include bioretention areas, permeable pavements, cisterns/recycling, and green roofs. In addition, some paved areas, parking lots, or roads could be removed or made permeable to increase infiltration of water. LID techniques must mimic predevelopment stormwater runoff conditions by using site design techniques that store, infiltrate, evaporate, and detain runoff. In addition, VA projects with a footprint greater than 5,000 GSF require compliance Section 438 of the EISA. Under EISA, VA must implement strategies that ensure the property maintains or restores, to the maximum extent technically feasible, the predevelopment hydrology of the property with regard to the temperature, rate, volume, and duration of stormwater flow. A 2017 stormwater analysis report for the South Campus identified installation of an underground retention system connected to dry wells as the best option to manage expected runoff on the South Campus. Additional study is currently underway to fully assess the best runoff management options.

# 4.14.6.2.4 Electrical and Natural Gas Supply

Similar to Alternative C, Alternative D would result in an increase in electrical demand due to the new and renovated buildings and thus an increase in total overall electrical load. The baseline electrical consumption for the WLA Campus is 56,156 MWh (Booz Allen Hamilton, 2018e). Similar to Alternative C, the WLA Campus would experience a significant increase in electrical demand by an estimated 56,250 MWh, a 100 percent increase (assuming no efficiency gains). Projected electrical consumption under Alternative D would likely be less than the modeled total of 112,406 MWh with the anticipated mix of future facility uses having less energy demand than the inpatient health care facilities modeled under Alternative C.

Overall energy efficiency can be improved with the new construction of or renovation to energy efficient buildings under Alternative D. Similar to Alternative C, a reduction in energy use would be realized as a result of the construction of new buildings decentralized off the WLA Campus CUP and served with natural gas-fired equipment. Alternative D projects would also implement Mitigation Measures UT-1, *Apply Sustainable Building Design Standards*, which include energy conservation measures. However, the exact reduction in energy use in comparison to Alternative C is unknown without specific information on future building types. Alternative D would also include a mix of building types with lower energy demands than the inpatient healthcare facilities modeled in Alternative C. Therefore, with the implementation of VA SSPP targets, Alternative D would be similar to, but probably lower than, Alternative C projections for a decreased electricity consumption of 79,648 MWh per year (Table 4.14-10).

Similar to Alternative C, based on the need to maintain redundant electrical services and available capacity to many of the large critical loads on the WLA Campus and the potential for PV generation outages to create conditions when peak on-site loads are greater than primary SCE service capabilities, the WLA Campus does not have the capacity available for the increase in new loads on the SCE incoming service feeders (Table 4.14-15). Similarly, the existing South Campus substation does not have available capacity for any new loads. The North Campus substation potentially has 2 MW available for new loads provided the incoming service feeder has the necessary available capacity. However, this substation would not be capable of supporting a 42-100 percent increase in new loads.

Alternative D results in slight increase in natural gas consumption on the WLA Campus as new buildings would run on natural gas versus steam. The baseline natural gas demand for the WLA Campus is 242,000 MMBtu (Booz Allen Hamilton, 2018e). Under Alternative D, the WLA Campus would experience an increase in natural gas demand by an estimated 4,422 MMBtu, a 2 percent increase. Under Alternative D, the projected natural gas demand would likely be similar to the estimated total of 246,422 MMBtu. The new facilities natural gas demand would make up for the reduced natural gas demand from the central steam plant (Building 299).

The two percent increase in natural gas consumption would not require any infrastructure improvements to the incoming natural gas service. The largest consumer of natural gas on site is the central steam plant (Building 299), which has a dedicated 8-inch line directly from the incoming natural gas city gate and does not draw upon the larger WLA Campus gas distribution network. This network consists of mains and major branches comprised of 3-inch and 4-inch piping, which will likely be sufficient for the two percent increase.

### 4.14.6.2.5 Solar

Baseline solar production for the WLA Campus is 10,040 MWh. Alternative D involves removal of solar arrays, and although new buildings would be constructed, the worst-case analysis for solar assumes that these solar arrays are not replaced. A decrease in solar production by an estimated 1,051 MWh (10 percent decrease) would result under Alternative D (Booz Allen Hamilton, 2018e). Projected solar production would total 8,989 MWh, and no new solar PV systems are planned for installation. Solar production is impacted with a decrease as a result of Alternative D.

#### 4.14.6.2.6 Steam and Condensate Return

Existing annual steam supplied to the WLA Campus is 163,166 Klbs. Alternative D would result in a decrease in steam demand by an estimated 122,723 Klb (75 percent decrease). Projected steam demand would total a maximum of 40,443 Klb annually with reduced steam demand likely with the anticipated mix of future facility uses (Booz Allen Hamilton, 2018e). The reduced steam demand under Alternative D is similar to Alternative C and results from the decentralization of the new facilities off of the WLA Campus CUP and individually servicing building thermal loads with natural gas-fired equipment. The existing steam supply and condensate return system would remain in place to support other buildings on the WLA Campus; however, the system experiences losses as a result of material corrosion and malfunction.

### 4.14.6.2.7 Communications

The newly constructed buildings on the WLA Campus would have updated communications infrastructure providing a significant improvement over the existing older infrastructure that requires ongoing maintenance. As a result of Alternative D, the new communications infrastructure would be efficient and reliable, and would result in less overall impact to electrical systems and would require less maintenance.

# 4.14.7 Alternative E (No Action)

Under Alternative E, the WLA Campus would remain the same as present day. No construction activities tied to the Proposed Action would occur on the WLA Campus.

### 4.14.7.1 Impacts from Construction

Under Alternative E, there would be no renovations, retrofits, new construction, or demolition to existing buildings on the WLA Campus. Therefore, no construction-related utilities impacts would occur as a result of Alternative E. Given the age of much of the infrastructure, replacement of certain utility lines may be required as part of the ongoing campus O&M. As described in Section 3.14, Utilities, this would include sewer lines that are over capacity when adjusted for age and condition and utility lines that are approaching capacity when adjusted for age and condition.

### 4.14.7.2 Impacts from Operations

Under Alternative E, there would be no change in utility demand on the WLA Campus as the existing buildings and operations would remain the same as present day. However, the electrical system infrastructure on the WLA Campus would continue to age and result in increased outages annually, in particular for Building 500, one of the largest loads on the campus. The steam distribution system would continue to degrade requiring increased O&M attention from VA engineering staff and further decreases in efficiency. The communications infrastructure would continue to degrade and be out-of-date, resulting in more outages and increases in O&M requirements. The continued operation of the existing WLA Campus under Alternative E would not impact utilities from a supply and demand perspective. However, the constraints identified in Section 3.14, Utilities, would continue, including capacity issues in the

sanitary system and service lines above 70 percent and over 50 percent for the natural gas and steam respectively, when adjusted for age and condition.

Many of the WLA Campus buildings are noted as having deficiencies. Except for a handful of recently renovated buildings, the vast majority of buildings were built in the 1930s or 1940s and have base physical plant systems and distribution networks that are in poor shape as the result of many years of use and decades of deferred maintenance. Many building systems appear to have undergone multiple iterations of equipment changeouts with cosmetic improvements in some areas, while other areas appear to have not undergone major renovations. The result is large intrabuilding disparities of equipment ages, manufacturers, and conditions. Many of the WLA Campus buildings would benefit from major renovations and/or wholesale replacement. Under Alternative E, the deficiencies and O&M requirements would continue and be exacerbated over time. Similarly, costs would continue to escalate as buildings and systems continue to degrade (PowerSurety, 2018d).

# 4.15 Environmental Justice

In accordance with EO 12898, this section describes potential impacts to environmental justice associated with the proposed realignment and development at the WLA Campus. This section also evaluates potential environmental health impacts to children, as required by EO 13045.

#### 4.15.1 Evaluation Criteria

For environmental justice, there is the potential for major impacts to occur when an activity:

 Results in disproportionately high and adverse human health or environmental (including economic) effects on minority populations, low-income populations, or limited English-speaking households.

For children's health and safety, there is the potential for major impacts to occur when an activity:

 Results in disproportionate risks to children's health or safety that are attributable to products or substances that children are likely to come in contact with or ingest, to demolition or construction activities, or to demolition or construction sites.

#### 4.15.2 Assessment Methods

When determining whether human health effects are disproportionately high and adverse, the following factors are considered:

- Whether the health effects, which may be measured in risks and rates, are significant or above generally accepted norms. Adverse health effects may include bodily impairment, infirmity, illness, or death.
- Whether the risk or rate of hazard exposure by a minority, low-income, or limited English-speaking population to an environmental hazard is significant and appreciably exceeds or is likely to appreciably exceed the risk or rate to the general population or other appropriate comparison group.

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• Whether health effects occur in a minority, low-income, or limited English-speaking population affected by cumulative or multiple adverse exposures from environmental hazards.

When determining whether environmental effects are disproportionately high and adverse, the following factors are considered: <sup>45</sup>

- Whether there is or will be an impact on the natural or physical environment that significantly and adversely affects a minority, low-income, or limited English-speaking population. Such effects may include ecological, cultural, human health, economic, or social impacts on minority, low-income, or limited English-speaking populations when those impacts are interrelated to impacts on the natural or physical environment.
- Whether environmental effects are significant and are or may be having an adverse impact on minority, low-income, or limited English-speaking populations that appreciably exceeds or is likely to appreciably exceed those on the general population or other appropriate comparison group.
- Whether the environmental effects occur or would occur in a minority, low-income, or limited English-speaking populations affected by cumulative or multiple adverse exposures from environmental hazards.

This section primarily uses the findings from other resource areas (e.g., air quality, noise, solid wastes and hazardous materials, transportation and traffic, and socioeconomics) as the basis for identification of potential adverse human health or environmental impacts and the relative degree of severity of such impacts. This section then assesses whether those potential adverse impacts would disproportionately affect a minority, low-income, or limited English-speaking population as identified in Section 3.15, Environmental Justice. Specifically, this analysis evaluates impacts on three different environmental justice population groups, with the first two groups sometimes considered together, as follows:

- Veterans residing on the WLA Campus, most of whom are of low-income status and many of whom are of minority status;
- Additional Veterans of minority or low-income status (including homeless Veterans, most of whom are of low-income status) who visit the WLA Campus for services; and
- Concentrations of minority, low-income, and limited English-speaking populations in the adjacent communities to WLA Campus.

This analysis considers that, as described in Section 3.10.2.6, WLA Campus Veteran Patient Population, many of the Veterans of minority or low-income status who reside on or visit the WLA Campus suffer from PTSD and other mental health disorders, and/or respiratory or other physical disorders, and are more susceptible than the general population to various human and environmental health stressors. These

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<sup>&</sup>lt;sup>45</sup> As discussed in Section 3.15.2.3, Limited English-Speaking Households, all Veterans are assumed to speak English. Therefore, limited English-speaking households are only considered for the adjacent communities.

vulnerabilities are factored into the consideration of human and environmental health risks to Veteran environmental justice populations. 46

Consistent with EO 13045, this section also identifies and assesses environmental health risks and safety risks that may disproportionately affect children. The definition of "environmental health risks and safety risks" in EO 13045 is "risks to health or to safety that are attributable to products or substances that the child is likely to come in contact with or ingest." Further, "[p]roducts or substances that children are likely to come in contact with or ingest" include "the air we breathe, the food we eat, the water we drink or use for recreation, the soil we live on, and the products we use or are exposed to." While the definition of environmental health risks and safety risks in EO 13045 focuses on products and substances, the policy statement of EO 13045 is broader, noting that risks to children also occur because "children's size and weight may diminish their protection from standard safety features; and children's behavior patterns may make them more susceptible to accidents because they are less able to protect themselves." Many NEPA analyses of environmental health risks and safety risks to children take this broader approach, and this PEIS does so as well.

# 4.15.3 Alternative A (Existing Building Renovations)

Alternative A involves facility renovations to approximately 1.75 million ft² of buildings at the existing WLA Campus. These renovations would generally affect the interior of those buildings, while some buildings may have exterior renovations to facades and entrances. The footprint of the existing buildings would not change significantly. Existing buildings would not be demolished, and new buildings would not be constructed. During renovations, existing tenants and services would be relocated to other buildings on the WLA Campus. These tenants and services would be returned to their previous buildings or to alternative buildings as renovations are completed. Parking areas, athletic fields, and vacant land would not be developed under Alternative A.

### 4.15.3.1 Impacts from Construction

### 4.15.3.1.1 Environmental Justice

#### Impacts to WLA Veteran Environmental Justice Populations

During renovations, the volume of solid wastes and hazardous materials, such as construction and demolition debris and universal waste, would temporarily increase. Renovations would likely encounter LBP, ACM, mold, PCBs, and mercury, which could pose health risks to WLA Campus Veteran environmental justice populations if these materials were mismanaged. However, all construction and demolition debris would be contained, and wastes would be abated and managed in accordance with

<sup>&</sup>lt;sup>46</sup> The need to address sensitivities specific to particular populations has been part of the environmental justice framework since CEQ's 1997 environmental justice guidance. It is explained well in a 2016 document from the Federal Interagency Working Group on Environmental Justice & NEPA Committee, "Promising Practices for EJ Methodologies in NEPA Reviews," which summarizes best practices for environmental justice analyses. The document states: "Minority populations and low-income populations could be uniquely susceptible to impacts from a proposed action due to: 1) special vulnerabilities, e.g. pre-existing health conditions that exceed norms among the general population; 2) unique routes of exposure, e.g. use of surface or well water in rural communities; or 3) cultural practices, e.g. subsistence fishing, hunting or gathering, access to sacred sites." The document also states: "Agencies may wish to consider factors that can amplify identified impacts (e.g., the unique exposure pathways, prior exposures, social determinants of health) to ensure a comprehensive review of potential disproportionately high and adverse impacts to minority populations and low-income populations." Veterans of minority and low-income status who live at or visit the WLA Campus have unique exposure pathways to any human and environmental health risks presented by the proposed action due to their greater use of the campus relative to the general population. Further, many of these Veterans have special vulnerabilities, such as susceptibility to mental health triggers or respiratory ailment triggers, relative to the general population.

applicable regulations and disposed in appropriate disposal facilities, as discussed in Section 4.12, Solid Waste and Hazardous Materials. Before buildings are renovated, Veterans services would be temporarily relocated away from construction and demolition debris. As a result, there would be no impacts to environmental justice populations from solid wastes and hazardous materials resulting from interior and exterior renovations.

Construction equipment and vehicles would cause a minor increase in traffic volume on the WLA Campus. Traffic volumes would further escalate should multiple buildings be renovated concurrently. In addition, there would be changes in traffic patterns and fewer available parking spaces near renovation locations due to the presence of construction workers and inspectors and equipment and dumpster staging. There could also be changes to building entry/egress locations and changes in movement of pedestrians and vehicles around the WLA Campus. These construction-related impacts could affect Veterans that rely on medical and mental health services at the WLA Campus. Veterans, particularly those traveling from off-campus, could encounter delays, detours, and barriers to moving around the campus. Veterans with mobility challenges and mental health issues could be particularly susceptible to difficulties and frustrations accessing health care due to these obstacles and to temporary relocations of services. In some cases, in the absence of mitigation measures, some Veterans might choose not to seek care. This would be a moderate impact, as the longer patients go without care, the more difficult it could become for them to want or seek care and their health conditions could deteriorate further. To the extent any of these impacts occur to minority and low-income Veterans, they would be an environmental justice concern. As described in Chapter 6, Mitigation, Monitoring, Minimization, and Best Practices, mitigation measures such as CS-4, Develop Construction Communications Plan, would help reduce these impacts to minor levels.

Renovation-related noise impacts would be short-term and minor to moderate (approaching EPA recommended noise standards) depending on the receptor and proximity to the project location. Renovation-related vibration impacts, though not frequent, in some cases could also be moderate in magnitude. To the extent any of these impacts occur to minority and low-income Veterans, they would be an environmental justice concern. Although generated within non-occupied buildings under renovation, certain noises, percussive sounds, loud banging, and associated vibrations could be perceived outside of those buildings. Examples of renovation activities that could generate noise traveling to other campus areas include the use of sledgehammers and hammer drills to demolish tile and ceramic fixtures and use of fastener and nail guns. Heavy construction machinery (e.g., bulldozers, backhoes) would not be anticipated for Alternative A. Implementation of Mitigation Measures NOI-1, NOI-2, and NOI-3 would help to identify and mitigate noise impacts.

Renovations, including interior and exterior renovations, and demolition activities could release criteria pollutants and TACs, which could pose health risks to WLA Campus Veteran environmental justice populations. VA would require application of dust control measures and reduction of emissions from construction equipment (Mitigation Measures AQ-1 and AQ-2) to mitigate air quality impacts. Odors and other emissions from equipment used outside of buildings, such as exhaust fumes from diesel equipment, would be temporary and dissipate quickly. Therefore, minor impacts would be expected.

Another potential social impact, and one with safety impacts, would be the potential for Veterans to seek unauthorized entry to buildings that are vacant or under renovation. These buildings and renovation sites

would be monitored and secured by fencing to minimize the potential for safety risks resulting from unauthorized entry (Monitoring Measure CS-2: *Manage Worker Safety, Fire, and Security Risks at Construction Sites*). This would reduce associated risks to minor levels.

In summary, all impacts described above would fall disproportionately on Veteran environmental justice populations relative to the general population due to Veterans' unique exposure pathways by living on or visiting the WLA Campus. These human and environmental health impacts would be considered minor to moderate, with moderate impacts due largely to the unique susceptibilities of Veterans with certain physical and mental health conditions. These impacts would be temporary and would be reduced by BMPs and mitigation measures identified in Chapter 6, Mitigation, Monitoring, Minimization, and Best Practices. For some individual Veterans with severe health conditions, such as extreme PTSD, some impacts potentially could still be moderate. VA health care providers would be vigilant to the need to provide increased case management and mitigation measures for these Veterans.

# Impacts to Adjacent Community Environmental Justice Populations

There would be no direct or indirect impacts to environmental justice communities adjacent to the WLA Campus, as renovations would generally occur inside existing buildings, with some minimal level of renovation to certain building exterior facades and entryways. Any noise, vibration, and air quality concerns from interior renovations or minimal exterior renovations would attenuate rapidly with distance and not be noticeably perceptible in adjacent communities. Solid and hazardous wastes would be managed in accordance with applicable regulations and disposed in appropriate disposal facilities, and therefore would have no human health impacts on adjacent communities. Construction-related traffic could traverse adjacent communities, but this traffic would represent a marginal increase to traffic near the WLA Campus. In addition, since the increase in traffic would affect both census tracts identified in Section 3.15, Environmental Justice, to have environmental justice populations and census tracts that do not have such populations, the impacts would not be disproportionate on environmental justice populations. There would be no social and safety impacts to adjacent communities because members of these communities do not have social patterns based on regular visits to the WLA Campus and would not have access to renovation sites.

### 4.15.3.1.2 Environmental Health and Safety Risks to Children

At present, only a handful of children live on the WLA Campus in staff housing. This housing is not immediately adjacent to buildings that would be renovated. Therefore, there would be no anticipated health and safety risks to these children from noise, vibration, air quality, or solid and hazardous wastes. Risks from construction traffic would not be substantially greater than risks from existing traffic. Construction site safety risks to these children would be minor due to security monitoring and fencing of construction sites.

There would be no health and safety risks to children in adjacent communities or nearby schools for the reasons mentioned immediately above in the discussion of impacts to adjacent community environmental justice populations. That is, all potential risks would be eliminated by distance from the construction sites and safety measures at the sites.

# 4.15.3.2 Impacts from Operations

Under Alternative A, future use of the WLA Campus buildings would provide Veterans with increased and improved facilities and services to meet health care needs. Operation of the WLA Campus does not currently create any substantial human health impacts. Any increase in potential human health impacts from increased operations would be reduced or eliminated through BMPs or mitigation measures. For instance, VA would continue to comply with state and local waste management requirements so that onsite minor odor sources, such as garbage dumpsters, would not adversely affect on-site or off-site sensitive populations. Solid wastes and hazardous materials would be handled in compliance with existing federal, state, and local laws. Based on the low potential of increased operations to create adverse human health impact, and the reduction of potential impacts through BMPs and other measures, no adverse impacts on Veteran environmental justice populations are anticipated. Rather, Alternative A renovations would increase the number of housing units and bring needed updates to existing housing, research, and medical facilities, and therefore would be a beneficial effect for Veterans and their families in the service area, including Veterans of minority and low-income status.

There would be minor adverse human or environmental health impacts to the adjacent communities from increased operations under Alternative A. Wastes and emissions would have no impact on the communities due to rapid attenuation with distance. The adjacent communities would experience some increases in traffic as more Veterans visit the WLA Campus to access the increased level of services. This traffic would represent a marginal increase to traffic near the WLA Campus and would affect census tracts identified in Section 3.15, Environmental Justice, to have environmental justice populations and census tracts that do not have such populations; therefore, impacts would not be disproportionate on environmental justice populations in the adjacent communities.

Increased operations under Alternative A would not have environmental health risks or safety risks that would disproportionately affect children. Increased environmental health risks from wastes and emissions would not occur due to rapid attenuation with distance. Safety risks to children from minor increases in traffic would be no greater than risks from existing traffic.

# 4.15.4 Alternative B (Existing Building Demolition)

Alternative B involves demolition of individual buildings throughout the WLA Campus, totaling nearly 1.75 million ft². This would result in a corresponding net decrease in building square footage on the Campus, with commensurate reductions in long-term operational activities, including Veteran housing and medical and social services for Veterans. Demolition activities for Alternative B would include site preparation (e.g., razing buildings, clearing), trenching, filling, grading, and asphalt removal. Following demolition, the landscape previously occupied by WLA Campus buildings would be restored to naturalized, open grassy areas. These construction activities would require the use of heavy machinery and concrete saws for demolition, heavy trucks, excavating and grading equipment (e.g., bulldozers, tractors, forklifts), and other mobile and stationary construction equipment. Prior to demolition activities, existing tenants and services would be relocated to other buildings on the WLA Campus. Parking areas, athletic fields, and vacant land would not be developed under Alternative B.

# **4.15.4.1 Impacts from Construction**

### 4.15.4.1.1 Environmental Justice

# Impacts to WLA Veteran Environmental Justice Populations

During demolition, the volume of solid wastes and hazardous materials, such as construction and demolition debris and universal waste, would temporarily increase. Waste volumes would be considerably greater than under Alternative A. Demolition activities would likely encounter LBP, ACM, mold, PCBs, and mercury, which could pose health risks to WLA Campus Veteran environmental justice populations. However, demolition waste debris would be contained, abated, and managed in accordance with applicable regulations and disposed in appropriate disposal facilities, as discussed in Section 4.12, Solid Waste and Hazardous Materials. Before buildings are demolished, Veterans services would be relocated and would not be near demolition debris. Access to demolition areas would be restricted. As a result, there would be no impacts to environmental justice populations from solid wastes and hazardous materials resulting from demolition.

Construction equipment and vehicles would cause a minor increase in traffic volume on the WLA Campus. Traffic volumes would further escalate should multiple buildings be demolished concurrently. In addition, there would be changes in traffic patterns and fewer available parking spaces near demolition locations due to the presence of construction workers and inspectors and equipment and dumpster staging. There could also be changes to building entry/egress locations and changes in movement of pedestrians and vehicles around the WLA Campus especially as buildings are demolished and replaced with naturalized, open grassy areas. These demolition-related impacts could affect Veterans that rely on medical and mental health care services at the WLA Campus, as described in Alternative A. To the extent any of these impacts occur to minority and low-income Veterans, they would be an environmental justice concern.

Demolition-related noise impacts would be short-term and generated by heavy construction machinery, sledgehammers, and related loud demolition equipment in an open-air environment as building walls are demolished and sites are regraded. Noise impacts would be greater in frequency of occurrence and magnitude relative to Alternative A, approaching EPA recommended noise standards when averaged over an entire day. Unmitigated, these impacts would be considered moderate to major, depending on the receptor and proximity to the project location. Demolition-related vibration impacts, though not frequent, in some cases could be moderate in magnitude. Veterans with combat experience, PTSD, or other mental health disorders may mistake sudden loud sounds for explosions or gun fire. These sounds could trigger adverse mental and physical reactions. In addition, noise and vibration could disrupt and complicate mental health care of patients by interfering with cognitive and memory testing or distracting from patient care and therapy sessions. To the extent any of these impacts occur to minority and low-income Veterans, they would be an environmental justice concern. Implementation of Mitigation Measures NOI-1, NOI-2, and NOI-3 would help to identify and mitigate noise impacts.

Demolition activities would release air pollutants into the open air. As described in Section 4.2.4.1.1, Criteria Pollutants, all criteria pollutants emissions would be below *de minimis* thresholds. Nonetheless, VA would employ mitigation measures AQ-1 and AQ-2 to minimize the generation of air pollution during construction. Odors from equipment used during demolitions, such as exhaust fumes from diesel

equipment, would be greater than under Alternative A, but would be considered minor as they would be temporary and dissipate quickly.

Another potential social impact, and one with minor safety impacts, would be the potential for Veterans to seek unauthorized entry to buildings that are vacant or to demolition sites. These buildings and sites would be monitored and secured by fencing to minimize the potential for safety risks resulting from unauthorized entry (Mitigation Measure CS-2).

In summary, impacts would fall disproportionately on Veteran environmental justice populations relative to the general population due to Veterans' unique exposure pathways by living on or visiting the WLA Campus. These human and environmental health impacts would be considered minor to moderate if not reduced through application of BMPs and mitigation measures, with moderate impacts due largely to the unique susceptibilities of Veterans with certain physical and mental health conditions. These impacts would be temporary and would be reduced t by construction BMPs and mitigation measures (Chapter 6, Mitigation, Monitoring, Minimization, and Best Practices). For some individual Veterans with severe health conditions, such as extreme PTSD or severe respiratory ailments, some impacts potentially could still be major. VA health care providers would be vigilant to the need to provide increased case management and mitigation measures for these Veterans. This could include moving care of some patients to off-campus facilities, and VA would have a plan and procedures for doing so when needed.

### Impacts to Adjacent Community Environmental Justice Populations

The potential for noise, vibration, and air quality impacts to affect adjacent communities is greater under Alternative B because demolition activities would occur in an open-air environment. However, noise and vibration from demolition activities generally would be relatively short-term and would attenuate rapidly with distance. Noise and vibrations would sometimes be perceptible in adjacent communities, but at minor levels since noise and vibration attenuate with distance. Air emissions would have the potential to migrate to adjacent communities, but this potential would be substantially reduced with distance and by application of BMPs (Chapter 6, Mitigation, Monitoring, Minimization, and Best Practices). Solid wastes and hazardous materials would be managed in accordance with applicable regulations and disposed in appropriate disposal facilities, and therefore would have no human health impacts on adjacent communities. Construction-related traffic would traverse adjacent communities, yet this traffic would represent a marginal increase to traffic near the WLA Campus. In addition, because the increased traffic would affect both census tracts identified in Section 3.15, Environmental Justice, with environmental justice populations and census tracts that do not have such populations, these impacts would not be disproportionate on environmental justice populations. There would be no social and safety impacts to adjacent communities because members of these communities do not have social patterns based on regular visits to the WLA Campus and would not have access to demolition sites.

### 4.15.4.1.2 Environmental Health and Safety Risks to Children

At present, only a handful of children reside on the WLA Campus in staff housing. This housing is not adjacent to residential buildings that would be demolished but is somewhat closer to the South Campus buildings proposed for demolition. There could be some health and safety risks to these children from noise, vibration, and air quality, but those impacts would be reduced through application of BMPs (Chapter 6, Mitigation, Monitoring, Minimization, and Best Practices). Risks from construction traffic

would not be substantially greater than risks from existing traffic. Construction site safety risks to these children would not be expected due to security monitoring and fencing of demolition sites.

Health and safety risks to children in adjacent communities or nearby schools would be considered minor to none for all the reasons mentioned immediately above in the discussion of impacts to adjacent community environmental justice populations. That is, all potential risks would be substantially reduced by distance from the demolition sites and from BMPs and safety measures that would be applied. With respect to schools, all schools near the WLA Campus are distant from the buildings that would be demolished under Alternative B.

# 4.15.4.2 Impacts from Operations

Under Alternative B, there would be no construction of replacement structures following demolition activities. As a result, while some Veterans may continue to live on the WLA Campus in remaining or repurposed buildings, the total number of available buildings for Veteran housing would likely decrease. <sup>47</sup> Demolition of Building 500 (main hospital) and other medical facilities would substantially decrease physical and mental health services available to Veterans at the WLA Campus. These changes would have human health, social, cultural, and economic impacts on Veterans who would otherwise utilize housing and services at the WLA Campus. For many Veterans, their access to housing and health care services would decrease substantially, as would the social and cultural benefits they experience from interaction with the Veteran community at the WLA Campus. Their costs to access housing and health care in other ways would increase. These impacts would be major for the affected Veterans and would be environmental justice impacts because they would fall disproportionately on Veterans, many of whom would be considered members of environmental justice populations because of minority or low-income status, relative to the general population. In addition, benefits to Veteran environmental justice populations of increased Veteran housing and medical services under Alternatives A, C, or D would be foregone.

VA would take actions that would reduce the impacts described above. VA would assist Veterans in finding alternative health care. VA would direct Veterans to the other local VA hospital (e.g., Long Beach) and to community clinics located in Anaheim, Laguna Hills, Santa Ana, Santa Fe Springs, and Cabrillo. VA would also attempt to place Veterans in non-VA care. VA would give special attention to finding VA or non-VA placements for Veterans of minority and low-income status (i.e., Veteran environmental justice populations). Additionally, these measures assume VA has adequate resources and authority to undertake them. In addition, use of distant facilities would generate inconvenience, stress, and economic costs for many Veterans. WLA patients with mobility challenges and mental health issues could experience substantial difficulties accessing health care services at other locations. Delays in access to care could escalate to patients not wanting care. The longer patients go without care, the more difficult it could become for them to want or seek care, thereby exacerbating their health issues. Therefore, Alternative B fails to meet the purpose and need for the Proposed Action of providing improved services to Veterans.

There would be no adverse human or environmental health impacts to environmental justice populations in the adjacent communities under Alternative B, as operations at the WLA Campus would be greatly

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<sup>&</sup>lt;sup>47</sup> Not including a small number of buildings that are not part of the Proposed Action but are considered under cumulative impacts.

reduced relative to the No Action Alternative or the other alternatives. Similarly, decreased operations under Alternative B would not have environmental health risks or safety risks that would disproportionately affect children.

# 4.15.5 Alternative C (Demolition and New Construction)

Alternative C would involve the demolition of over 1.75 million ft² of existing buildings on the WLA Campus. Alternative C would also produce approximately 3.2 million gross ft² of new residential buildings and medical facilities at the existing WLA Campus, such that implementation of Alternative C would result in approximately 1.5 million total net new ft² on the WLA Campus. Prior to demolition activities, existing tenants and services would be relocated to other buildings on the WLA Campus. Parking areas, athletic fields, and vacant land are considered under Alternative C, as new construction would occur at these locations.

# 4.15.5.1 Impacts from Construction

In general, impacts of demolition and construction for Alternative C would include combinations of impacts characterized for Alternative B (demolition), along with impacts from new construction. Therefore, impacts would often be greater than those of either Alternative A or Alternative B.

# 4.15.5.1.1 Environmental Justice

### Impacts to WLA Veteran Environmental Justice Populations

During demolition, the volume of solid wastes and hazardous materials, such as construction and demolition debris and universal waste, would temporarily increase. Demolition waste volumes would be similar to those of Alternative B. There would be additional waste generated from new construction activities under Alternative C. Demolition activities would likely encounter LBP, ACM, mold, PCBs, and mercury, which could pose health risks to WLA Campus Veteran environmental justice populations. However, these wastes would be abated and managed in accordance with applicable regulations and disposed in appropriate disposal facilities, as described in Section 4.12, Solid Waste and Hazardous Materials. As a result, there would be no impacts to environmental justice populations from solid wastes and hazardous materials resulting from demolition.

Demolition and construction equipment and vehicles would cause a minor to moderate increase in traffic volume on the WLA Campus. Traffic volumes would further escalate should multiple buildings be demolished and under construction concurrently. In addition, there would likely be changes in traffic patterns and fewer available parking spaces near demolition and construction locations due to the presence of construction workers and inspectors and equipment and dumpster staging. Movement of large construction machinery may necessitate temporary road or lane closures. There would be changes to building entry/egress locations and changes in movement of pedestrians and vehicles around the WLA Campus, especially as buildings are demolished and new buildings are constructed. These demolition and construction-related impacts could affect Veterans' access to medical and mental health services at the WLA Campus, and would be similar to, but greater than the impacts under Alternatives A and B, due to greater combined demolition and construction activity under Alternative C. To the extent any of these impacts occur to minority and low-income Veterans, they would be an environmental justice concern.

Demolition and construction-related noise impacts would be short-term and generated by heavy construction machinery, sledgehammers, and other loud equipment in an open-air environment as building walls are demolished and new buildings are constructed. Noise impacts would be greater in frequency of occurrence and in magnitude relative to Alternative A and similar to Alternative B, approaching or exceeding EPA recommended noise standards when averaged over an entire day (modeled under a conservative assumption where all equipment is used at once). Unmitigated, these impacts would be considered moderate to major, depending on the receptor and proximity to the project location. Veterans with combat experience, PTSD, or other mental health disorders, may mistake sudden loud demolition and construction sounds as explosions or gun fire. These sounds could trigger adverse mental and physical reactions. In addition, noise and vibration could disrupt and complicate mental health care of patients by interfering with cognitive and memory testing or distracting from patient care and therapy sessions. To the extent any of these impacts occur to minority and low-income Veterans, they would be an environmental justice concern. Implementation of Mitigation Measures NOI-1, NOI-2, and NOI-3 would help to identify and mitigate noise impacts.

Alternative C would generate considerably greater air pollutant emissions than Alternatives A or B, due to the higher combined volume of demolition and construction activity. As described in Section 4.2.4.1.1, Criteria Pollutants, emissions of the criteria pollutants NO<sub>x</sub> and NO<sub>2</sub> would exceed *de minimis* thresholds in some years (modeled using conservative assumptions about the number and schedule of projects). This is a human health concern because these compounds are precursors to ozone, which is a lung irritant. However, generation of ozone from these compounds is not a highly localized process as it takes place within the overall regional airshed. Thus, while NO<sub>x</sub> and NO<sub>2</sub> emissions from Alternative C could be a regulatory and regional public health concern, they would not be considered an environmental justice impact as the resulting regional human health impacts would affect both environmental justice and non-environmental justice populations.

Alternative C would also generate particulate emissions at levels greater than under Alternative B and could raise concerns of increased cancer risk. While the true health impacts cannot be known without more specific dispersion modeling, the emissions as conservatively modeled would present an increase in cancer risk above the significance threshold. To the extent these impacts occur to minority and low-income Veterans, they would be an environmental justice concern. Odors from equipment used during demolitions, such as exhaust fumes from diesel equipment, would be greater than under Alternative A, but would be considered minor as they would be temporary and dissipate quickly.

Similar to Alternatives A and B, another potential minor social impact, and one with safety impacts, would be the potential for Veterans to seek unauthorized entry to buildings that are vacant or under construction. These buildings and construction sites would be monitored and secured by fencing to minimize the potential for safety risks resulting from unauthorized entry (Mitigation Measure CS-2).

In summary, impacts for Alternative C would fall disproportionately on Veteran environmental justice populations relative to the general population due to Veterans' unique exposure pathways by living on or visiting the WLA Campus. These human and environmental health impacts would be considered minor to moderate if not reduced through application of BMPs and mitigation measures, with moderate impacts due largely to the unique susceptibilities of Veterans with certain physical and mental health conditions. These impacts would be temporary and would be reduced to moderate or lower levels by construction

BMPs and mitigation measures (Chapter 6, Mitigation, Monitoring, Minimization, and Best Practices). For some individual Veterans with severe health conditions, such as extreme PTSD or severe respiratory ailments, some impacts potentially could still be major. VA health care providers would be vigilant to the need to provide increased case management and mitigation measures for these Veterans. This could include moving care of some patients to off-campus facilities, and VA would have a plan and procedures for doing so when needed.

#### Impacts to Adjacent Community Environmental Justice Populations

The potential for noise, vibration, and air quality impacts to affect adjacent communities is greater under Alternative C than Alternatives A and B due to the greater combined volume of demolition and construction activities. However, noise and vibration from these activities would generally be relatively short-term and would attenuate rapidly with distance. Noise and vibrations would sometimes be perceptible in adjacent communities, but likely at minor levels due to distance from the source. Particulates would have the potential to migrate to adjacent communities, but this potential would be substantially reduced by application of BMPs. Solid wastes and hazardous materials would be managed in accordance with applicable regulations and disposed in appropriate disposal facilities with no human health impacts on adjacent communities. Construction-related traffic would traverse adjacent communities, but this traffic would represent a marginal increase to traffic near the WLA Campus and would affect census tracts identified in Section 3.15, Environmental Justice, to have environmental justice populations and census tracts that do not have such populations, thus impacts would not be disproportionate on environmental justice populations. There would be no social and safety impacts to adjacent communities because members of these communities do not have social patterns based on regular visits to the WLA Campus and would not have access to construction sites.

#### 4.15.5.1.2 Environmental Health and Safety Risks to Children

At present, only a handful of children reside on the WLA Campus in staff housing. This housing is not adjacent to residential buildings that would be demolished and constructed but is somewhat closer to the South Campus buildings that would be demolished and constructed. Therefore, there could be some health and safety risks to these children from noise, vibration, and air quality. These risks would be reduced through the application of BMPs (Chapter 6, Mitigation, Monitoring, Minimization, and Best Practices). Risks from construction traffic would be no greater than risks from existing traffic. Construction site safety risks to these children would not be expected due to security monitoring and fencing of construction sites.

Health and safety risks to children in adjacent communities or nearby schools generally would be considered minor to none for the reasons mentioned above in the discussion of impacts to adjacent community environmental justice populations. That is, potential risks would be substantially reduced by distance from the demolition sites and BMPs and safety measures that would be applied. All schools near the WLA Campus are distant from the buildings that would be demolished under Alternative C. However, new construction sites would occur near areas with higher concentrations of children periodically, such as MacArthur Field and Veterans Barrington Park, and thus could attract unauthorized entry by children. Active sites would be monitored and secured by fencing to minimize the potential for safety risks to children resulting from unauthorized entry. At present, the Brentwood School is physically separated from the WLA Campus by a series of fences.

## 4.15.5.2 Impacts from Operations

Under Alternative C, as new buildings are constructed and become operational, they would provide Veterans with increased and improved facilities and services to meet health care needs. There would be a net increase in the number of housing units and square footage of medical service facilities. This would be a beneficial effect for Veterans and their families in the service area, including those of minority and low-income status (i.e., Veteran environmental justice populations).

Operation of the WLA Campus does not currently create any substantial human health impacts. Any increase in potential human health impacts from increased operations would be minimal and would be reduced or eliminated through BMPs or mitigation measures. For instance, criteria pollutants emissions would be below *de minimis* thresholds. VA would continue to comply with state and local requirements and industry standards so that on-site minor odor sources, such as garbage dumpsters, would not adversely affect on-site or off-site sensitive populations. Solid wastes and hazardous materials would be handled in compliance with existing federal, state, and local laws. Based on the low potential of increased operations to create adverse human health impact, and the reduction of potential impacts through BMPs and other measures (Chapter 6, Mitigation, Monitoring, Minimization, and Best Practices), impacts on Veteran environmental justice populations would be minor.

There would be few adverse human or environmental health impacts to the adjacent communities from increased operations under Alternative A. Wastes and emissions would have no impact on the communities due to rapid attenuation with distance. The adjacent communities would experience some increases in traffic as more Veterans visit the WLA Campus to take advantage of increased services there. This traffic increase would be greater than under Alternative A, but still would represent a marginal increase to traffic near the WLA Campus. It would affect census tracts identified in Section 3.15, Environmental Justice, to have environmental justice populations and census tracts that do not have such populations; therefore, impacts would not be disproportionate on environmental justice populations in the adjacent communities.

Increased operations under Alternative C would not have environmental health risks or safety risks that would disproportionately affect children. Increased environmental health risks from wastes and emissions would not occur due to rapid attenuation with distance. Safety risks to children from minor increases in traffic would be no greater than risks from existing traffic.

#### 4.15.6 Alternative D (Renovation, Demolition, and New Construction)

Under Alternative D, there would be a combination of renovations and retrofits of existing buildings on the WLA Campus, demolition of existing buildings with no replacement construction, demolition and construction of new buildings within existing building site areas, and construction of new buildings on existing parking areas, athletic fields, and vacant lands on the WLA Campus. Potentially some demolished buildings would not be replaced. The total square footage of demolished buildings and the total square footage of new buildings would be up to but no more than would occur under Alternative C because some buildings would be renovated rather than demolished and replaced. Therefore, the potential environmental justice impacts of Alternative D would be similar to, but possibly less than, those of Alternative C, as summarized below.

# **4.15.6.1 Impacts from Construction**

## 4.15.6.1.1 Environmental Justice

#### Impacts to WLA Veteran Environmental Justice Populations

As with Alternative C, there would be no impacts to Veteran environmental justice populations from solid wastes and hazardous materials resulting from renovation, demolition, and construction activities. All wastes would be contained, abated, and managed in accordance with applicable regulations and disposed in appropriate disposal facilities, as described in Section 4.12, Solid Waste and Hazardous Materials.

Similar to Alternative C, renovation, demolition, and construction activities have the potential to adversely affect Veteran environmental justice populations due to:

- Increases in traffic and changes to building entry/egress locations and changes in movement of pedestrians and vehicles around the WLA Campus.
- Adverse mental and physical reactions, or disruption of mental health care treatment activities to Veterans, that are triggered by sudden loud construction noise and vibrations, mistaken as explosions or gun fire.
- Production of air pollutant emissions including particulate emissions that present increased cancer risks.
- Safety risks if Veterans seek unauthorized entry to vacant buildings or those under construction.

To the extent any of these impacts occur to minority and low-income Veterans, they would be an environmental justice concern. Such impacts would fall disproportionately on Veteran environmental justice populations relative to the general population due to Veterans' unique exposure pathways by living on or visiting the WLA Campus. These human and environmental health impacts would be considered minor to moderate if not reduced through application of BMPs and mitigation measures, with the moderate impacts due largely to the unique susceptibilities of Veterans with certain physical and mental health conditions. For some individual Veterans with severe health conditions, such as extreme PTSD or severe respiratory ailments, some impacts potentially could still be moderate. VA health care providers would be vigilant to the need to provide increased case management for these Veterans.

#### Impacts to Adjacent Community Environmental Justice Populations

As with Alternative C, human and environmental health impacts on adjacent communities from renovation, demolition, and construction activities under Alternative D would be none to minor. This is because these impacts would decrease rapidly as distance from the construction site increases, such that they would have few or no effects in the adjacent communities. Furthermore, any such impacts, for instance traffic from construction activities, would not fall disproportionately on environmental justice populations in the adjacent communities and they would also fall on non-environmental justice populations.

## 4.15.6.1.2 Environmental Health and Safety Risks to Children

Given factors such as the relative locations of staff housing and projected projects, environmental health and safety risks to children residing on the WLA Campus in staff housing would be none to minor (the same as those for Alternative C). Risks to children in adjacent communities or nearby schools generally would be considered none to minor due to distance from the demolition, renovation, and construction sites and application of the BMPs (Chapter 6, Mitigation, Monitoring, Minimization, and Best Practices) and safety measures.

## 4.15.6.2 Impacts from Operations

The impacts of operating facilities under Alternative D would be similar to those described for Alternative C. The planned and future use of the WLA Campus buildings would bring needed updates to existing housing, research, and medical facilities and provide Veterans with increased and improved facilities and services to meet health care needs. This would be a beneficial effect for Veterans and their families in the service area and those who reside in the WLA Campus, including those in minority and low-income populations. Impacts of WLA Campus operations on adjacent communities under Alternative D would be none to minor and would not be disproportionate on environmental justice populations in the adjacent communities. Operations would not have environmental health risks or safety risks that would disproportionately affect children.

# 4.15.7 Alternative E (No Action)

Under Alternative E, the WLA Campus would remain the same as present day. No construction activities tied to the Proposed Action would occur on the WLA Campus.

#### 4.15.7.1 Impacts from Construction

Under Alternative E, there would be no renovating or retrofitting of existing buildings on the WLA Campus. Therefore, no construction-related impacts on environmental justice populations would occur as a result of Alternative E.

#### 4.15.7.2 Impacts from Operations

Under Alternative E, there would be no change in environmental justice conditions on the WLA Campus as the existing buildings and operations would remain the same as the present day. No new operational changes of existing uses would occur. The operation of the existing WLA Campus under Alternative E would continue to provide benefits to Veteran environmental justice populations. However, these benefits could decline over the long-term as existing aging buildings continue to deteriorate.

# **5 Cumulative Impacts**

Cumulative impacts from past, current, and future foreseeable actions together with those of the Proposed Action are not expected to occur for the resource areas listed below; therefore, these resource areas are not discussed in detail in this chapter.

- Geology and Soils The Santa Monica Fault passes through the southernmost portion of the WLA Campus near the Building 5XX and Parking Lot 1 and reaches within 165 feet of the ground surface near the WLA Campus. The Proposed Action does not represent an increased exposure risk to seismic rupture. Project sites on the WLA Campus would not be impacted with respect to liquefaction, landslides, or land subsidence. Construction activities would be directed away from the oil development area on the WLA Campus and impacts to oil resources would not be expected. Although erosion potential would increase in areas where vegetative cover would be removed, vegetation would be replaced following construction activities, thereby reducing erosion. Impacts to paleontological resources from construction activities are not anticipated as activities would occur within previously disturbed areas and would not be expected to expose new areas or encounter fossils.
- **Hydrology and Water Quality** Limited streamflow or hydrology is present at the WLA Campus. No intermittent or perennial surface waterbodies are located on the WLA Campus.
- Wildlife and Habitat There are no federally listed species or designated critical habitat for
  plants or wildlife on the WLA Campus. Transient individual Monarch butterflies (state-listed
  species) are known to occur on the WLA Campus during their mid-October through February
  migration season. The combined construction activities would not significantly reduce potential
  habitat for transient Monarch butterflies as other areas on the WLA Campus would be available.
- Land Use No changes are proposed to the overall land uses of the WLA Campus, and no conflicts are anticipated with federal or local land use plans, policies, and ordinances.
- **Floodplains, Wetlands, and Coastal Zone** The WLA Campus is not within designated floodplain areas or located in a coastal zone; no actions are proposed in the wetland area. Any potential impacts to wetlands would be fully mitigated with implementation of stormwater BMPs.
- Solid Waste and Hazardous Materials Contaminated soils are unlikely to be encountered during construction activities on the WLA Campus. If ACM, LBP, or other contaminated content are encountered, resulting waste would be abated and managed in accordance with all applicable regulations and disposed in appropriate disposal facilities. Any hazardous materials spills that could occur during construction would likely be small, localized, and cleaned up. The cumulative impacts of the projects combined would be similar to those of the Proposed Action.

#### 5.1 Aesthetics

Cumulative impacts for aesthetics were assessed by analyzing past, present, and reasonably foreseeable actions that together with the Proposed Action could impact campus resources (setting and landscape, architecture and buildings, lighting). Specific considerations were provided to analyze the degree to

which existing aesthetic features would be cumulatively altered, improved, or removed. Additionally, evaluations were completed to analyze how the Proposed Action, when combined with foreseeable actions (on- and off-campus), integrates with the existing campus aesthetics and viewsheds.

# **5.1.1** Impacts from Construction

As documented in Table 3.16-1, additional projects are occurring, planned, and foreseeable on or immediately adjacent to the WLA Campus include construction of the Columbarium on 13 acres, renovation of three EUL buildings (>129,000 GSF), rehabilitation of five historically significant buildings, and construction of the LA Metro Purple Line Westwood/VA Hospital station on the campus. Each of these projects may cause minor adverse cumulative impacts to aesthetic resources in specific campus areas. Cumulative impacts to buildings aesthetics are projected to be similar to the impacts described for buildings and architecture under Alternatives A and C in Section 4.1, Aesthetics. Cumulative projects will not change the aesthetics of the campus setting, but adverse cumulative impacts may occur to viewsheds and the landscape due to the concurrent number of construction and renovation projects.

When analyzed as cumulative actions combining the Proposed Action and Table 3.16-1 projects, the LA Metro Purple Line extension is the single largest project with the longest individual planned timeline, projected to last 10 years. LA Metro's construction thus has the most weighted cumulative impact to campus aesthetics, including aesthetic impacts to historic trees. A historic grid of 50 palm trees that are a contributing element to the WLA VA NRHD is currently located at the construction staging and exit shaft area. LA Metro is planning for the removal and relocation of up to 15 of these historically significant palm trees. Removal of these historic trees will cause adverse impacts to campus viewsheds. Impacts and possible mitigation efforts for these impacted palm trees are further described in Sections 5.3, Cultural Resources, Including Historic Properties.

LA Metro plans to limit nighttime construction and lighting, yet potential adverse cumulative impacts could occur from power connection work that is planned to occur at night (from 9 p.m. to 6 a.m.) for up to one year on Wilshire Boulevard. As with many of the Proposed Action alternatives activities, LA Metro's proposed Purple Line construction activities will occur across both previously disturbed areas and vacant land areas. Some of the LA Metro's construction activities will require the demolition of parking lots and excavation/transportation of waste materials and soils. During the 10-year construction activities, LA Metro is planning to use a construction staging and exit shaft area to be located on the western edge of the South Campus in consultation with VA.

# **5.1.2** Impacts from Operation

The planned and future operation of existing buildings to be renovated, the Columbarium and the Purple Line Westwood/VA Hospital station, would result in changes to campus aesthetics. The Westwood/VA Hospital station design may also cause minor impacts if the design is inconsistent with existing and planned architecture of campus buildings. Addition of lighting from buildings and support facilities in new locations to ensure effective operations, when paired with increased LA Metro lighting for service, security, and safety, can result in cumulative impacts. No cumulative impacts to the campus setting or landscape from facility operations are anticipated.

# 5.2 Air Quality

The cumulative impact analysis considers the net effects of the Proposed Action and past, present, and reasonably foreseeable future projects described in Section 3.16, Other Past, Present, and Reasonably Foreseeable Actions, that could cumulatively impact air quality on or near the WLA Campus. Because project-specific data are not available for all projects, the cumulative analysis was conducted on a qualitative basis.

# **5.2.1** Impacts from Construction

Implementing the Proposed Action in combination with the past, present, and reasonably foreseeable projects identified in Section 3.16, could result in an increase in regional short-term construction-related criteria air pollutant, precursor, and GHG emissions. However, construction would occur over a finite time period, and the emissions would occur only during this time period, unlike operational emissions, which would occur over the lifetime of the projects.

#### 5.2.1.1 Criteria Air Pollutants

Criteria air pollutants are regional and cumulative by nature and are controlled by a local air district's air quality management plans and the SIP. The *de minimis* evaluation performed for the PEIS alternatives covers project-specific emissions by assessing the contribution of construction emissions of criteria pollutants to the region's budget. Additionally, the projects identified in Section 3.16 are required to comply with the local air quality management plan or the SIP.

Based on the analysis in Section 4.2, Air Quality, the *de minimis* thresholds would not be exceeded for Alternatives A and B (see Table 4.2-2 for Alternative B). *De minimis* thresholds would be exceeded for Alternative C (see Table 4.2-12); as discussed previously, this is due to the large number of construction and demolition activities projected to occur concurrently on the WLA Campus within a 10-year period. Emissions related to Alternative D would depend on the extent of renovations versus demolition and new construction; more emissions would be anticipated with more demolition and new construction and would depend on the timing of projects. The past, present, and reasonably foreseeable projects identified in Table 3.16-1 on or immediately adjacent to the WLA Campus would result in additional emissions and would be additive to the emissions from Alternatives A through D depending on the construction schedules. Regardless, these projects would be required to meet applicable SCAQMD thresholds.

Nearby residential buildings such as the EUL Buildings 205, 207, and 208, which are slated to be converted into residential facilities, and the Columbarium expansion could be affected. The cumulative air quality impact, depending on construction completion timeframe of these projects, could affect these buildings because nearby residential buildings and cemeteries are considered sensitive receptors. Renovation of these buildings could lead to additional criteria pollutants such as NO<sub>X</sub> and PM; when combined in the atmosphere, these criteria pollutants could increase ozone levels, which could impact sensitive receptors with respiratory issues. However, because exact construction schedules for all of these projects is unknown, as schedules are developed, future air emissions modeling may be conducted once the scope and schedule of projects is determined.

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The most significant project for consideration is the Purple Line extension. The LA Metro 2017 *Supplemental Final EIS* stated that emissions of VOCs, CO, NO<sub>X</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> would exceed SCAQMD thresholds and therefore result in an adverse impact (LA Metro, 2017). However, an updated assessment was conducted of the air quality construction impacts associated with construction of the Purple Line Westwood/VA Hospital Station and other construction activities on and adjacent to the WLA Campus based on updated staging information and schedule. Based on these updates, there are no exceedances of the SCAQMD thresholds, which represents an improvement in air quality during construction compared to the impact conclusions in the 2017 *Supplemental Final EIS* (WSP, 2018a).

Therefore, implementing Alternatives C or D in combination with the Purple Line extension would intensify adverse air quality impacts in the area; however, the emissions from construction would be temporary in nature.

VA would implement mitigation measures (see Chapter 6, Mitigation, Monitoring, Minimization, and Best Practices) and would follow applicable federal, state, and local regulations for all construction activities to minimize any construction-related impacts to air quality.

#### 5.2.1.2 Toxic Air Contaminants

Construction emissions associated with the Proposed Action in combination with the past, present, and reasonably foreseeable projects identified in Section 3.16 are expected to include TACs. Combining the health risk screening results from LA Metro's HRA for the Purple Line extension (LA Metro, 2017) with those from Alternative C (the maximum development alternative with mitigation) show an additional increase in PM<sub>2.5</sub> (from diesel exhaust), NO<sub>2</sub>, and CO ambient air concentration (Table 5.2-1).

Table 5.2-1. Cumulative Health Risk Screening Results for Air Emissions (with Mitigation for
WLA Campus Construction Activities)

Polluta nt	Background Concentratio n* µg/m³	LA Metro Modeled Results* * µg/m³	WLA Campus Alternative C Modeled Results µg/m³	Projected Total Concentratio n µg/m³	NAAQ S μg/m³	CAAQ S μg/m³
NO <sub>2</sub>	55.0	61.9	28.9	145.8	188	339
CO	2,200.0	300.0	6.28	2506.3	35,000	23,000
PM <sub>2.5</sub>	N/A	2.6	1.94	4.54	12.0	12.0

<sup>\*</sup> WLA Campus Air Monitoring 2016 Data Maximum Concentration

For Alternative C without mitigation, the incremental cancer risk would exceed the threshold of 10 in a million indicating a potential impact to human health; however, implementing mitigation measures reduces the cancer risk to below the significance thresholds. The 2017 *Final Supplemental EIS* calculated the excess cancer risk for VA Hospital receptors as 1.2 for 30-year exposure and 1.4 for 70-year exposure, both of which did not exceed the SCAQMD threshold of 10 in one million (LA Metro, 2017). The cumulative impact from these two projects would be significant due to the exceedances from Alternative C indicating that people on the WLA Campus and in the immediate surrounding area may be at an elevated risk of cancer from the diesel exhaust PM generated during construction activities unless mitigation measures are implemented during construction activities. For both Alternative C and the

<sup>\*\*</sup> Source: Draft 130(C) Environmental Technical Memorandum (WSP, 2018a)

Purple Line extension, the hazard indices did not exceed the SCAQMD threshold of 1.0. In combination with other projects listed in Table 3.16-1, no cumulative impacts from operations associated with non-carcinogenic impacts are anticipated.

#### 5.2.1.3 Greenhouse Gases

From the perspective of construction-related GHG emissions, the Purple Line extension is the most significant construction project identified in Section 3.16 with quantified GHG emissions and is therefore considered in this cumulative analysis. Construction activities associated with the Purple Line extension (including the Westwood/VA Hospital Station, Westwood/UCLA Station, and associated tunneling and hauling) would result in an estimated 96,000 MTCO2e (WSP, 2018a). Construction-related GHG emissions associated with VA's Alternative C would result in 24,484 MTCO2e over the duration of the Proposed Action or amortized over 30 years are 816 MTCO2e per year. Thus, implementation of Alternative C in conjunction with the Purple Line extension could cumulatively increase GHG emissions. However, neither CARB nor SCAQMD has adopted a quantifiable threshold for evaluating whether project-generated GHGs would be considered a significant impact. A qualitative assessment of the projects for significance compares the projects for consistency with the 2016-2040 RTP/SCS. The Proposed Action and the Purple Line extension, along with EUL projects on the WLA Campus, are consistent with the 2016-2040 RTP/SCS, which promotes transit-oriented development as a strategy to meet or exceed GHG reduction targets.

## **5.2.2** Impacts from Operations

The geographic and temporal context for the analysis of potential cumulative operational air quality impacts includes locations in which the projects listed in Section 3.16, Other Past, Present, and Reasonably Foreseeable Actions, would be operational after the year 2020. Implementing Alternative A, C, or D in combination with the past, present, and future projects could result in an increase in regional, long-term operational emissions of criteria air pollutant, precursor, and GHG emissions.

#### 5.2.2.1 Criteria Air Pollutants

The *de minimis* thresholds would not be exceeded for Alternative A, and there are no operational emissions associated with Alternative B. *De minimis* thresholds associated with building operations would be exceeded for Alternative C (see Table 4.2-6); emissions related to Alternative D would be less than Alternative C and would depend on the extent of renovations versus demolition and new construction; more emissions would be anticipated with increased demolition and new construction. The projects identified in Table 3.16-1 combined with VA operating emissions from Alternatives C or D would increase regional emission levels and could result in additional exceedances of *de miminis* thresholds. As stated previously, the Purple Line extension would have the most significant cumulative impact to air quality on or near the WLA Campus. Section 4.4 of Metro's Final EIS/EIR stated that lower regional pollutant burden levels in both the region and subarea are predicted during operation of the Purple Line extension because of decreases in VMT compared to the No Build Alternative (LA Metro, 2012).<sup>48</sup>

<sup>&</sup>lt;sup>48</sup> According to the Draft 130(c) Environmental Technical Memorandum, the impact conclusions in the Final EIS/EIR related to long-term air quality remain unchanged with implementation of the project refinements discussed above (WSP, 2018a).

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Therefore, implementing Alternatives A, C, or D in combination with the Purple Line extension may not make a considerable contribution to cumulative emissions of criteria pollutants during the operational phase, and this would be a minor cumulative impact.

#### 5.2.2.2 Toxic Air Contaminants

The Proposed Action and the past, present, and reasonably foreseeable projects identified in Section 3.16 are not proposed to include new operational sources of TACs, and therefore no cumulative impacts are anticipated for this aspect.

#### 5.2.2.3 Greenhouse Gases

Operation of the WLA Campus facilities under Alternatives A through D in conjunction with the projects in Table 3.16-1 would generate cumulative GHG emissions each year once buildings become operational. However, the LA Metro's *Final Supplemental EIS* for the Purple Line extension stated that GHG emissions are predicted to decrease during operation of the Purple Line because of decreases in VMT compared to the No Build Alternative (LA Metro, 2017). Thus, operation under the Proposed Action combined with other projects in Table 3.16-1 would not represent a cumulative impact on GHG emissions. In addition, the Proposed Action, the WLA EUL projects, and the LA Metro project are all consistent with the 2016-2040 RTP/SCS, which promotes transit-oriented developed as a strategy to meet or exceed GHG reduction targets.

## 5.3 Cultural Resources, Including Historic Properties

As detailed in Section 3.16, past, present, and reasonably foreseeable projects on or close to the WLA Campus have the potential to adversely impact and affect cultural resources and historic properties including buildings located within the WLA VA NRHD. These resources include properties individually listed in the NRHP (i.e., Building 20 [Wadsworth Chapel], Building 66 [Streetcar Depot]), the WLA VA NRHD, archeological properties, and paleontological resources. Specific considerations were taken to analyze the degree to which existing cultural resources or historic properties would be cumulatively altered, improved, removed, or affected. Each project identified in Table 3.16-1 and Table 3.16-2 was reviewed to determine potential cumulative impacts to campus resources.

Table 3.16-1 (on-campus) projects have the potential to result in cumulative impacts to cultural resources and historic properties. Table 3.16-2 projects all occur at a distance off campus or do not affect WLA resources, and thus off-campus projects were deemed to not cause any specific cumulative impacts. As project-specific data are not available for all on-campus alternatives and proposed activities, the cumulative analysis was conducted in accordance with the description of the impacted cultural resource or affected historic property and application of the *SOI Standards*, as appropriate and known.

# **5.3.1** Impacts from Construction

As documented in Table 3.16-1, additional projects are occurring, planned, and foreseeable on the WLA Campus that are similar to many of the Proposed Action renovation, rehabilitation, demolition, and construction activities. Potential cumulative impacts to campus cultural and historic resources could occur from construction activities as follows.

# **5.3.1.1** Historic Properties

Rehabilitation of historic buildings in accordance with the *SOI Standards* does not constitute an adverse effect. VA rehabilitated Building 209 in accordance with the *SOI Standards* (Donaldson, 2012). VA has identified a developer for the rehabilitation of Buildings 205 and 208, and SHPO has concurred that plans for these buildings also meet the *SOI Standards* (Roland-Nawi, 2015). A developer has been identified for Building 207 and that developer has committed to rehabilitating the building in accordance with the *SOI Standards*. Because plans have not yet been developed, VA is pursuing a PA with SHPO to identify a process for review of the required documentation.

The 1887 Fund is a federally recognized 503(c)(3) non-profit organization dedicated to the preservation of the history of the WLA Campus as a home for Veterans. The group intends to fund the rehabilitation of five historic campus resources including Buildings 20 (Wadsworth Chapel), 23, 33, 66 (Streetcar Depot), and 199. Rehabilitation of these five buildings through this public-private partnership are federal undertakings subject to the requirements of the NHPA, including Section 106 and its implementing regulations (36 CFR Part 800). Under the terms of the agreement between VA and the 1887 Fund, all rehabilitations will be undertaken in accordance with the *SOI Standards* and therefore will not constitute an adverse effect to historic properties (Barrie, 2017). VA has initiated consultation with SHPO regarding renovation of Building 20, and SHPO has concurred that the plans are in accordance with the *SOI Standards* (Polanco, 2017). While the final use of these buildings is not yet known, it will be for Veterans care or service in accordance with the terms of the West Los Angeles Leasing Act of 2016. If 1887 Fund is not able to fulfill its goals or if VA elects to renovate and/or rehabilitate one or more of these buildings without 1887 Fund support, VA will proceed in accordance with NHPA and 36 CFR Part 800 to resolve adverse effects, if any.

Cumulatively, the planned renovation and construction activities for Buildings 205, 207, 208, and those proposed for renovation by the 1887 Fund will use the *SOI Standards*, and therefore benefit the WLA VA NRHD by returning buildings to operation and ensuring long-term maintenance, so the buildings can continue to convey historical significance. VA will investigate to determine if any archeological properties are present within areas of ground disturbance. No archeological deposits eligible for listing in the NRHP were identified in the APE for Building 209 when it was rehabilitated (Duke Cultural Resources Management, 2014).

Construction of the Columbarium area on the North Campus was determined not to adversely affect historic properties including the WLA VA NRHD. This expansion is a neutral effect to the LANC, a property that is both a contributing resource to the WLA VA NRHD and individually eligible for listing in the NRHP (Donaldson, 2010). VA and NCA have determined it preferable for maintaining the dignity due a national cemetery to remove the WLA Campus recycling center (Building 509) from the Columbarium area, and to build a new recycling center in the engineering area (Polanco, 2018). These actions also do not affect Building 20 (Wadsworth Chapel) or Building 66 (Streetcar Depot). No archeological properties have been identified to date in these areas.

FTA as the lead federal agency, with LA Metro as FTA's grant applicant, is consulting with VA, ACHP, and other Consulting Parties concerning potential effects to historic properties due to construction activities for the Purple Line extension. Building 20 (Wadsworth Chapel) and portions of the WLA VA NRHD are within the Purple Line APE. Design plans are in development so the full range of effects to

historic resources is not fully known. Construction will occur within the palm grove on the South Campus. This collection of 50 palms is a contributing resource to the WLA VA NRHD and LA Metro has proposed to remove approximately 15 palms. Plans to avoid adverse effects to the grove include replacing the palms with mature palms of the same species or potentially retaining the palms in another location on the WLA Campus until construction of the Purple Line tunnel is complete. The original palms will be reinstalled or new palms planted in the former locations following removal of all construction equipment. Design plans also include the construction of ground-level features such as ramps and hatches within the palm grove VA is planning to participate in design review of such features to minimize potential effects.

The Streetcar Depot (Building 66) is proposed for rehabilitation in accordance with the *SOI Standards* through the fundraising efforts of the 1887 Fund, and redevelopment in this manner would be a beneficial effect. Implementation of the Draft Master Plan may necessitate relocating the Streetcar Depot (Building 66). It has been moved at least twice in its history and further moves within the boundaries of the WLA Campus would be a minor effect and neutral impact pursuant to consultation with SHPO.

The proposed Purple Line Westwood/VA Hospital station would be located north of Building 500 and outside the boundaries of the WLA VA NRHD. Potential indirect effects include changes to the noise levels of the area, as the existing relative quiet conditions of the WLA Campus is indicative of the WLA VA NRHD setting. LA Metro has proposed to minimize potential effects to the setting of the WLA VA NRHD through the erection of noise barriers and muffling of equipment. These sorts of temporary construction effects will not affect the status of the WLA VA NRHD as a historic property.

VA has requested that LA Metro follow the VA's WLA Campus archeological protocols to identify potential archeological properties within the Purple Line corridor and station footprint. Final concurrence for LA Metro's use of VA protocols will be documented upon the execution of the amendment of the 2012 Memorandum of Agreement Between the Federal Transit Administration and the California State Historic Preservation Officer Regarding the Los Angeles Westside Subway Extension Project, Los Angeles County, California (2012 Purple Line MOA). If sites are identified, LA Metro will consult with VA, SHPO, ACHP, and other Consulting Parties to determine if the deposits retain sufficient integrity and are of sufficient significance to be listed in the NRHP. Once evaluated, sites will be avoided, protected, or excavated.

Because consultation with FTA and LA Metro is ongoing, the full list of effects, and thus overall cumulative impacts of the project, are not fully known. LA Metro has proposed several measures to minimize effects to levels that are not adverse. Resolution of effects will be addressed through an amendment to the 2012 Purple Line MOA. Construction activities for the Purple Line extension is not anticipated to necessitate removal of the WLA VA NRHD from the NRHP, but consideration of historic district boundary amendments may be considered if LA Metro is unable to sufficiently minimize permanent adverse effects.

## **5.3.1.2 Paleontological Properties**

There are no major anticipated impacts to paleontological resources as a result of construction activities to renovate, rehabilitate, and build on campus as part of the cumulative projects analyzed. LA Metro has the responsibility under CEQA to recover and preserve paleontological resources. Construction of the Purple

Line extension is capable of disturbing or destroying paleontological resources. Identification and curation of such materials is the responsibility of LA Metro. LA Metro will alert VA if paleontological resources are identified within grounds under VA authority.

# **5.3.2** Impacts from Operations

The planned and future operation of existing buildings to be renovated, newly added buildings, the Columbarium, and the Purple Line Westwood/VA Hospital station would result in changes to the WLA Campus. Potential cumulative impacts to campus cultural and historic resources could occur from facility operations.

## **5.3.2.1 Historic Properties**

FTA as the lead federal agency, and LA Metro as FTA's grant applicant, are consulting with VA and other Consulting Parties concerning potential effects to historic properties as a result of operation of the Purple Line. LA Metro has indicated to VA, SHPO, and other Consulting Parties that indirect effects such as increased noise levels can be minimized to levels that are not adverse through implementation of mitigation measures such as noise barriers. LA Metro also has communicated to VA, SHPO, and other Consulting Parties that vibration related to operation of the Purple Line will not damage historic buildings within the APE, including Buildings 20 and 23. Because consultation with LA Metro is ongoing, the full range of effects is not fully known. Resolution of adverse effects to historic properties related to operation of the Purple Line will be addressed through the MOA. Operation of the Purple Line is not anticipated to necessitate removal of the WLA VA NRHD from the NRHP, but consideration of historic district boundary amendments may be considered if LA Metro is unable to sufficiently minimize long-term adverse effects.

#### **5.3.2.2 Paleontological Properties**

There are no anticipated impacts to paleontological resources as a result of operation of the on-campus and off-campus cumulative projects analyzed.

#### 5.4 Noise and Vibration

For the cumulative noise impacts assessment, the net noise and vibration impacts of the Proposed Action and past, present, and reasonably foreseeable future actions described in Section 3.16, were considered. Because project-specific data are not available for all projects, the cumulative analysis of noise and vibration impacts was conducted primarily on a qualitative basis. However, the most significant other past, present, or future action for consideration is the Purple Line extension, for which noise impacts have been modeled. Therefore, a quantitative assessment was performed to represent potential cumulative impact of the Purple Line extension in conjunction with the Proposed Action.

#### **5.4.1** Impacts from Construction

As described in Section 4.7, Noise and Vibration, short-term noise impacts would result from construction of the Proposed Action. Other projects on the WLA Campus, such as the renovation of Buildings 205, 207, and 208, which are slated to be converted into residential facilities, and the Columbarium expansion, could also have noise impacts. Cumulatively, the intensity of noise and

vibration impacts from construction of multiple projects could be greater due to simultaneous occurrence, and the frequency of impact probably would be greater than would occur for the Proposed Action alone. However, as described in Section 4.7, Noise and Vibration, the noise levels near these projects are expected to be short-term and localized. Furthermore, as described in Section 3.7, Noise and Vibration, the City of Los Angeles and Los Angeles County noise ordinances prohibit construction, demolition, and repair work involving equipment that would disturb residential quarters during the nighttime, Sundays, and federal holidays unless a noise variance is obtained. Note that the Purple Line extension project includes daytime and nighttime construction activities with a minimum 20-foot-high perimeter noise barrier wall.

Augmenting this qualitative assessment, a quantitative analysis of noise impacts of the Purple Line extension combined with impacts from Section 4.7, Noise and Vibration, was performed to represent the likely range of cumulative noise impact. To derive an approximation of cumulative noise impact from the two projects when combined, data from the Purple Line Final EIS/EIR was used. For the purposes of this quantitative analysis, to determine a screening distance of impacts, a maximum of 500 feet was considered, as it is the noise limit parameter set by the Los Angeles Municipal Code (described in Section 3.7, Noise and Vibration). The closest sensitive receptor to the proposed Purple Line Westwood/VA Hospital station location is Building 500. Therefore, it would be the receptor most exposed to these potential impacts from the LA Metro construction project. Other buildings within the 500-foot screening distance would receive cumulative noise impacts below what the hospital would receive.

The Purple Line Final EIS/EIR did not directly identify noise level impact on specific buildings. However, using the distance between Building 500 and construction, projected noise levels could be extrapolated (Table 5.4-1). When combined with the noise levels derived in Section 4.7, Noise and Vibration, from the WLA Campus project, the cumulative noise level and impact was determined and cumulative noise impacts on Building 500 would only be approximately 0.1 dBA higher (using the highest of impact results) if both projects are concurrent, which is far below what most humans can detect.

The noise methodology and assumptions in the Purple Line Final EIS/EIR varied slightly from those of Section 4.7, Noise and Vibration, for the Proposed Action. For instance, the noise estimates for the Proposed Action are significantly more conservative than the noise estimates for the Purple Line extension. This results in higher projected noise impact levels for construction activities in the WLA Campus project than for those associated with the Purple Line extension. Methodology differences include a 5-dBA noise shielding value for noise level analysis for the Proposed Action, while a 20-dBA noise shielding value was used for the Purple Line Final EIS/EIR based on the proposed 20-foot-high perimeter noise barrier wall (LA Metro, 2012). Given these assumption differences, comparing noise levels from each to derive cumulative impacts might not reflect true projections. Accordingly, a second scenario was modeled by applying a 15 dBA increase to the Purple Line extension noise levels to simulate the more conservative and reduced level of noise shielding that was applied in Section 4.7. Noise and Vibration, to the WLA Campus noise levels. Table 5.4-1 presents this scenario. With this more conservative approach, cumulative noise impacts would be 7.7 dBA higher (using the highest of impact results) if both projects are concurrent. However, two caveats should be considered. First, this additional noise is mainly attributed to the higher noise level caused by the Purple Line construction, which is the main driver of the combined noise level over only the Proposed Action. Secondly, this increase would

occur only if the Purple Line construction project does not implement mitigation measures identified in the LA Metro Final EIS/EIR (WSP, 2018a) As such, the Purple Line construction project should be carefully monitored to ensure that LA Metro is implementing their proposed noise mitigation measures where needed; continued cooperation and coordination between VA and LA Metro staff on these two projects should assist in minimizing noise and vibration cumulative impacts.

Table 5.4-1. Cumulative Noise Levels

Receptor	Distance from Purple Line Construc- tion (feet)	Scenario	Projected Noise Level from LA Metro (dBA) <sup>1</sup>	Noise Level from VA WLA Project (dBA)	Cumulative Noise Level (dBA)	Cumulative Noise Impact (dBA)
VA Hospital (Building 500)	375	As-stated Shielding	57.5	Renovation: 65.6	66.2	0.6
				Demolition: 76	76.1	0.1
				Construction: 81	81	0.0
		Conservative Shielding	72.5	Renovation: 65.6	73.3	7.7
				Demolition: 76	77.6	1.6
				Construction: 81	81.6	0.6

Source: (WSP, 2018a) dBA levels modified to normalize noise based on distance to the VA Hospital

Actual cumulative impacts will likely be between these two scenario results. In addition, these cumulative noise impacts would only be for those buildings closest to the Purple Line construction activities that are occurring near Wilshire Boulevard, and would fade as the distance from the construction areas increase. Receptors further than a few hundred feet away from the metro construction are not likely to experience cumulative noise impacts.

While the Purple Line extension is the only concurrent project that could be quantified for noise, it is a large project that would cause potentially high levels of noise during construction activities. Because concurrent noise from the Purple Line extension is not expected to lead to significantly high levels of additional, cumulative disruption to the proposed WLA Campus projects, other concurrent projects listed in Table 3.16-1 Table 3.16-1 that are smaller in scope and scale to the Purple Line extension are likewise not anticipated to cause significant cumulative noise impacts higher than those for the Proposed Action alone.

Veterans with combat experience, PTSD, or other mental health disorders could mistake loud sounds from construction activities occurring on the WLA Campus as explosions or gun fire which could trigger adverse mental and physical reactions. The implementation of mitigation measures as identified in Chapter 6, Mitigation, Monitoring, Minimization, and Best Practices, would limit these occurrences to reduce any disruptions of behavior for Veterans residing or visiting the campus.

For the projects listed in Table 3.16-1, cumulative impacts on vibration levels from construction within the WLA Campus are similarly expected to be low. As described in Section 4.7, Noise and Vibration, vibration impacts from heavy construction and demolition projects in the WLA Campus are expected to be minor. The cumulative vibration impact would be short-term but potentially noticeable, particularly during demolition activities. However, just like noise, these activities would be limited to the daytime and are anticipated to cause only a minor disturbance to nearby sensitive receptors. In addition, because

vibration dissipates quickly over distance, as described in Section 4.7, Noise and Vibration, these concurrent projects are not anticipated to cause an overlapping of vibration impacts on the WLA Campus.

# **5.4.2** Impacts from Operations

As discussed in Section 4.7, noise and vibration from additional traffic levels would be greater over time, and perhaps at specific points in time for the Proposed Action in combination with increased traffic from the projects identified in Table 3.16-1. However, this potential increase in noise due to traffic would be small relative to overall traffic in the vicinity of the WLA Campus. Similarly, routine operation of the WLA Campus after the Proposed Action in conjunction with other actions would not be expected to increase the cumulative noise and vibration impact. As such, there would be minor cumulative impacts from the projects identified in Table 3.16-1 on noise from operations.

#### 5.5 Socioeconomic Conditions

The projects considered in the cumulative socioeconomic impacts include those listed in Table 3.16-1 as past, present, and reasonably foreseeable actions on or immediately adjacent to the WLA Campus. These projects will be referred to as the "cumulative analysis projects," and all projects except the Purple Line extension will be referred to as the "VA cumulative analysis projects." The cumulative analysis projects would have similar types of construction- and operation-related socioeconomic impacts to those of the Proposed Action (see Section 4.10, Socioeconomics). Thus, the Proposed Action in conjunction with these projects could result in cumulative socioeconomic impacts, as described in the sections below.

The potential for the Proposed Action to have cumulative socioeconomic impacts in conjunction with the off-campus projects identified in Table 3.16-2 would be limited. The off-campus projects do not have the intensity, duration, or scale to substantially contribute to construction- or operation-related socioeconomic impacts in conjunction with the Proposed Action.

# **5.5.1** Impacts from Construction

Construction expenditures on the cumulative analysis projects would generate additional economic activity to include employment, labor income, value added, and economic output. This additional economic activity would add to the activity generated by the Proposed Action and would be considered beneficial to the Los Angeles County economy. However, even when accounting for a project as large as the Purple Line extension, the cumulative beneficial impacts would be considered measurable, but small (minor) in relation to the overall Los Angeles County economy, which in 2016 generated economic output totaling over \$1.1 trillion and supported nearly 6.3 million jobs (IMPLAN, 2017).

The questions of whether the cumulative impacts could strain the local economy, unbalance the labor market, or require substantial worker relocation to fill all positions must also be considered. To do so, the estimated construction costs and approximate economic output impacts of the cumulative analysis projects are described below, first for VA cumulative analysis projects, and then for the Purple Line extension. Then, the approximate employment impacts of the cumulative analysis projects are considered. In each case, the analysis concludes by assessing the magnitude of the impact of the Proposed Action in combination with the cumulative analysis projects relative to the ability of the Los Angeles County economy to support the combined impacts.

The VA cumulative analysis projects consist of nine building renovations plus the Columbarium construction. Alternative C, which represents the largest economic impact of all the alternative analyzed, consists of demolishing and replacing 33 buildings and additional new construction. Therefore, the scale of economic activity from the VA cumulative analysis projects would be much smaller than the scale of economic activity from the Proposed Action. A rough estimate of the total construction costs for the VA cumulative analysis projects is \$183.8 million.<sup>49</sup> The phasing of these projects is unknown, but a "worst case" assumption could be that 25 percent of the work, or \$46.0 million, takes place in a single year (see Section 4.10.5.2). Assuming the same ratio of total economic output to total construction costs as estimated for Alternative C, the total economic output generated by the VA cumulative analysis projects would be \$65.5 million.

The LA Metro Locally Preferred Alternative (LPA) for the Purple Line extension is estimated to generate a total of \$10.1 billion in economic output from start to finish of construction (LA Metro, 2010). This would amount to about \$1.0 billion in average economic output per year if the project were built under the most accelerated schedule (10 years). Available documentation from LA Metro does not indicate how much construction would occur in the peak construction year. A "worst case" assumption could be twice that of the average year, or \$2.0 billion.

Under the Proposed Action, Alternative C (the most expensive alternative) would generate \$477.0 million in economic output in the peak construction year (Section 4.10.5.1, Impacts from Construction). In the unlikely event that peak construction years for the Proposed Action, VA's cumulative analysis projects, and the Purple Line extension coincided in the same year, total economic output would be an estimated \$2.542 billion (\$477.0 million for the Proposed Action, \$65.5 million for VA's cumulative analysis projects, and \$2.0 billion for the Purple Line extension). This amounts to only 0.23 percent of the annual \$1.1 trillion output of the Los Angeles County economy (IMPLAN, 2017). Given this small percentage, the economy could support this level of economic activity.

With respect to cumulative employment and demands on the labor force, of the Proposed Action's alternatives, Alternative C identified the largest employment with 1,700 jobs in an average construction year and 2,956 jobs in the peak construction year. During the peak year, this would include 1,575 jobs in construction, which is the most-impacted industrial sector (Section 4.10.5.1, Impacts from Construction). Assuming the same ratio of construction jobs to total economic output as estimated for Alternative C, the VA cumulative analysis projects would generate 152 construction jobs under the peak construction year assumption made above. The Purple Line extension would support 64,151 person-years of employment from start to finish of construction (LA Metro, 2010). A person-year is equivalent to one full-time equivalent position for one year. Thus, under the most accelerated, 10-year LA Metro project schedule, the project would support an estimated 6,415 jobs in an average year. Approximately 1,800 of these jobs would be in construction (LA Metro, 2010). The peak year requirement is unavailable, but as a "worst case" assumption, if the requirement were double the average year requirement, this would equate to 3,600 construction jobs. In the unlikely event that peak construction years for the Proposed Action, VA's cumulative analysis projects, and the Purple Line extension coincided in the same year, 5,327 jobs would

<sup>&</sup>lt;sup>49</sup> This includes: \$6.5 million for the Columbarium construction (estimated), renovations \$17.6 million for Building 209 as estimated in 2012 (Cumming Clarke, 2012) and updated to 2018 dollars, \$38.0 million for Building 205 and \$35.4 million for Building 208 (Concourse Federal Group, 2018), and \$26.4 million for Building 207 based on estimated cost per GSF for Buildings 205 and 208. Also includes \$22.3 million for Wadsworth Chapel renovation (Louden, 2017) and \$36.8 million for renovation of the other four 1887 Fund historic buildings, based on the estimated cost per GSF for the Wadsworth Chapel.

need to be filled (1,575 for the Proposed Action, 152 for VA's cumulative analysis projects, and 3,600 for the Purple Line extension).

It is unlikely that this construction jobs requirement would place demands on the Los Angeles County labor force that would unbalance the labor market or require substantial worker relocation to fill all positions. The economic dynamic at work would be as described in detail in Section 4.10.3.1, Impacts from Construction. First, the cumulative requirement for 5,327 workers represents 2.3 percent of the 228,817 construction jobs in Los Angeles County as of 2016 (IMPLAN, 2017). Most of this cumulative worker requirement probably would be filled by normal turnover as existing construction projects finish and workers transition to new jobs on new projects. Any remaining unfilled jobs almost certainly could be filled by workers moving from other economic sectors or by the natural increase in the labor force. Substantial worker relocation would not be required.

Given that substantial worker relocation to fill the cumulative worker requirement would not be needed, construction of the Proposed Action together with the cumulative analysis projects would be unlikely to induce population growth and thus also would be unlikely to cause noticeable changes to demographic patterns. Similarly, in the absence of population growth, substantial additional demands on housing would be unlikely. Because construction-related workers are likely to commute from within Los Angeles County, housing demand and residential development would not be substantially affected. In conclusion, no growth-inducing impacts are expected.

Construction of the Proposed Action would not permanently displace any populations or businesses, either on or outside of the WLA Campus. Construction of the VA cumulative analysis projects also would not displace any populations or businesses because VA would prioritize retention or expansion of existing on-campus housing capacity and would not build off-campus. Further, according to LA Metro, construction of the Purple Line Westwood/VA Hospital station would not displace any populations or businesses (WSP, 2018b).

Cumulative construction activities would disrupt social patterns of Veterans that reside on or visit the WLA Campus to a greater degree than the Proposed Action alone. The VA cumulative analysis projects would have similar disruptive effects as the Proposed Action. The Purple Line extension would create additional division of the WLA Campus community due to its location at the intersection of Wilshire Boulevard and Bonsall Avenue and would have other impacts. Social impacts would manifest due to several effects of cumulative construction activities:

• Increases in traffic, changes to parking, changes to building entry/egress locations, and changes in movement of pedestrians and vehicles around the WLA Campus. Cumulatively, there would be greater disruptions over time or at given points in time than would occur for the Proposed Action alone. These disruptions would make it difficult for some Veterans to maintain current patterns of social interaction with other Veterans and VA staff. Construction of the Purple Line Westwood/VA Hospital station and tunnel poses a particular concern because this station is proposed to be located close to Bonsall Avenue, which is the only way to cross Wilshire Boulevard between the North and South Campus. The Purple Line Westwood/VA Hospital station would likely result in increased vehicle traffic in this area and periodic disruptions to traffic traversing the campus. The construction project is also likely to alter pedestrian patterns along Bonsall Avenue.

Noise and vibration. Cumulative impacts from construction on vibration levels within the WLA Campus are expected to be minor. As described in Section 5.4, cumulative noise and vibration impacts would be short-term but potentially noticeable. VA construction activities would be limited to the daytime hours and are anticipated to cause only a minor disturbance to nearby sensitive receptors; however, the LA Metro Purple Line construction may include nighttime activities that could cause a disturbance to nearby sensitive receptors. Veterans with combat experience, PTSD, or other mental health disorders could mistake loud sounds from the construction activities as explosions or gun fire and could trigger adverse mental and physical reactions, thereby affecting social interactions. The implementation of mitigation measures as identified in Chapter 6, would limit these occurrences to reduce any disruptions of behavior for Veterans residing or visiting the campus.

Cumulative social impacts due to the factors above would be short-term and minor to most Veterans. Even in the cumulative impact context, most Veterans would still have opportunities to maintain meaningful levels of social interaction with other Veterans and with VA staff. However, for some individual Veterans with severe health conditions, such as extreme PTSD, some noise and other impacts could potentially be major in the absence of mitigation, causing them to avoid or reduce use of the WLA Campus and thereby change associated social patterns. The potential for this type of impact is greater in the cumulative context than for the Proposed Action alone. VA would take measures to minimize these various factors, as described for Alternative A in Section 4.10.3, and in Chapter 6, Mitigation, Monitoring, Minimization, and Best Practices. VA would implement these BMPs and mitigation measures for both the Proposed Action and additional VA projects on the WLA Campus to reduce or eliminate cumulative human and environmental health impacts and social impacts on Veterans. LA Metro has also identified a wide range of BMPs it would implement to reduce construction impacts on the WLA Campus, including impacts that would cause social disruptions (WSP, 2018b).

Cumulative social impacts on the adjacent communities generally would be minor. Additional VA projects and the Purple Line extension would have little impact on social patterns based on visits to the WLA Campus because few members of the adjacent communities have such patterns. Construction traffic as well as noise and vibration impacts outside the WLA Campus would be greater in the cumulative context than for the Proposed Action alone. Cumulative construction traffic could potentially have minor effects on social interactions in the adjacent communities due to traffic delays (see Section 5.7, Transportation and Traffic for description of cumulative impacts on traffic). While the Purple Line construction phase potentially would add to noise and vibration emanating from the Proposed Action and additional VA projects, because of its location within the WLA Campus, at some distance from residences and businesses in the adjacent communities and with an acoustic barrier formed by the I-405 Freeway, any cumulative noise and vibration-related impacts on social patterns would be minor (see Section 5.4, Noise, for description of cumulative impacts on noise).

## **5.5.2** Impacts from Operations

As discussed in Section 4.10, Socioeconomics, the economic impacts specifically attributable to WLA's operational budget would generate new beneficial economic activity. The Proposed Action would do so without requiring substantial worker relocation to fill the new jobs, even under the maximum operations budget (Alternative C). The number of jobs created, 2,267, would be small relative to the overall Los

Angeles County economy. These jobs would be filled predominantly by workers transferring from other local jobs or by natural growth in the labor force. Some highly skilled jobs (e.g., doctors, other health care specialists) may require recruiting and worker relocation from outside the county. However, in total, the net impact on population growth of increased operational activity under the Proposed Action would be minor. Given the minor net impact on population growth, impacts on housing and residential development due to the new jobs would also be minor.

Cumulative job growth due to the cumulative analysis projects would not alter these conclusions. WLA operational budget increases and resulting job growth due to the VA cumulative analysis projects cannot be quantified at this time but would be smaller than those for the Proposed Action, and probably considerably so. The Purple Line extension would create about 419 net new O&M jobs relative to the No Build scenario (LA Metro, 2010).

However, the new Purple Line Westwood/VA Hospital Station, once in operation, would result in socioeconomic changes in the adjacent communities. The station would create opportunities for transit-oriented development within walking distance. Such development could include denser housing attractive to people who desire proximity to transit, and new commercial development to take advantage of increased numbers of residents and transit riders. Station area businesses would benefit from access to potentially larger pools of employees and customers who would have greater ability and reduced travel times to reach these businesses. Residential and commercial properties within walking distance of the Westwood/VA Hospital Station would likely increase in value due to increased desirability for the reasons mentioned above (LA Metro, 2010). This would be a beneficial impact for property owners. However, over time there could be some displacement of existing residents in the vicinity of the WLA Campus as values, taxes, and rents rise due to the effects of the Purple Line extension.

The Proposed Action and VA cumulative analysis projects probably would not add substantially to these effects of the Purple Line extension on the adjacent communities. This is because the WLA Campus serves a different community than the businesses and residential property owners of the adjacent communities. Veterans would benefit from improved access to the WLA Campus from other parts of Los Angeles County, but typically would use the Westwood/VA Hospital station specifically to access VA services at the WLA Campus and would neither substantially increase their utilization of businesses in the area around the Campus nor be the typical target demographic for higher density transit-oriented residential development.

Once construction of the cumulative analysis projects is completed, social impacts to Veterans who live on or visit the WLA Campus would be beneficial. Inconveniences and health issue triggers from construction activities would no longer occur and operations would not generate additional inconveniences or other triggers. Veterans would have increased and improved opportunities for meaningful social interactions with other Veterans and with VA staff due to the increased number of Veterans residing on or visiting the Campus and the improved facilities, including the new town center as part of the Proposed Action. The Purple Line Westwood/VA Hospital station, once in operation, would provide increased and lower cost access to the facilities, services, and social interaction opportunities of the WLA Campus for Veterans in the Los Angeles region. In summary, there would be substantial operational benefits to Veterans from the cumulative analysis projects.

# **5.6 Community Services**

WLA Campus Draft Master Plan

As detailed in Section 3.16, past, present, and reasonably foreseeable projects on or close to the WLA Campus have the potential to adversely affect community services on, and surrounding, the WLA Campus Specific considerations were taken to analyze the degree to which community services would be cumulatively impacted. Each project identified in Table 3.16-1 and Table 3.16-2 was reviewed to determine potential cumulative impacts to community services.

## **5.6.1** Impacts from Construction

Additional projects are occurring, planned, and foreseeable on, and off, the WLA Campus are similar to many of the Proposed Action renovation, demolition, and construction activities and may impact the provision of community services. Table 5.6-1 summarizes the potential cumulative impacts to community services that could occur from construction activities.

Project Name	Cumulative Impact
LA Metro Purple Line Extension	Moderate
CIM Commercial Building Sale	Minor
Santa Monica Redevelopment	Minor
Trident Center Modernization	Minor
Building 209	Minor
Buildings 205, 207, and 208	
Historic Building Renovations/1887 Fund	
Columbarium	Minor
Fox Studios Master Plan	None

Table 5.6-1. Potential Cumulative Impacts to Community Services

# **5.6.1.1 Hospital and Clinics**

Construction activities linked to off-campus cumulative projects are not expected to have any impact to the WLA Campus hospital and clinics. Similarly, the ongoing construction of the Columbarium project is not expected to have any impact on WLA Campus hospital and clinics.

Construction activities occurring on the North Campus due to rehabilitation of the five historic buildings by 1887 Fund and renovations to Buildings 205, 207, and 208 as EULs, may have minor impacts to the hospital and clinics. Patients accessing the main hospital from North Campus may have to travel past ongoing construction activities that could potentially cause distraction or confusion in attempts to reach medical facilities. However, these construction activities will be minor, and could be mitigated by use of a clear communication plan that includes on-campus signage for patients (Mitigation Measure CS-4: *Develop Construction Communications Plan*). Cumulative impacts from construction traffic for building renovation and/or rehabilitation activities is considered minor.

Purple Line construction activities are planned to last up to 10 years and may have moderate adverse cumulative impacts on the hospital and clinics. Construction will occur on Parking Lot 42 directly in front of the main hospital (Building 500) entrance that includes patient drop-off and pick-up; therefore, patients may experience impacts as they access, exit, or remain in the main hospital or associated medical facilities on the South Campus. The construction site could cause a visual, auditory, and physical

distraction to patients of the WLA Medical Center. Loud sounds linked to construction activities (e.g., jack hammering, nail guns) could potentially act as triggers for patients with PTSD or other mental health concerns. As Purple Line construction traffic will consistently be using and crossing Bonsall Avenue, the project is also expected to impact existing circulation plans on campus, thus creating larger access issues for patients. VA intends to work closely with LA Metro to help mitigate these cumulative impacts from construction. Some of the potential mitigation measures that will be implemented are: a sound/visual barrier (Mitigation Measure NOI-1), proper communication plan and signage for patients accessing the WLA Campus (Mitigation Measure CS-4), and a construction traffic plan to help mitigate the impact to on- and off-campus circulation patterns (Mitigation Measure TT-3).

## 5.6.1.2 Fire/Rescue and Emergency Services

Cumulative impacts due to construction activities for fire/rescue and emergency services include both increased risk of fire/emergency during construction and circulation/accessibility impacts due to construction traffic. Impacts range from minor for the smaller scale projects including renovation and/or rehabilitation of the historic buildings and EUL and Columbarium projects, to potentially moderate impacts from the larger scale Purple Line extension.

#### 5.6.1.3 Law Enforcement Services

Cumulative impacts due to construction activities for law enforcement services include the potential for both increased crime/emergency during construction and circulation/accessibility impacts due to construction traffic. Impacts range from minor for the smaller scale projects like renovation of the historic buildings and North Campus projects, to potentially moderate to major impacts from the larger scale Purple Line extension. VAPD may experience additional cumulative impacts due to on-campus construction activities, while LAPD may be impacted by off-campus projects.

#### 5.6.1.4 Schools

Construction impacts due to renovation and/or rehabilitation of historic buildings, additional North Campus projects, and the Columbarium are not expected for any school with the exception of Brentwood School, due to the proximity to the projects. Construction could act as a potential auditory/visual distraction; however, impacts from the construction activities to Brentwood School are expected to be minor.

Purple Line construction could potentially include cumulative impacts to the existing traffic circulation plan due to long-term increases in heavy construction traffic. Impacts will range from minor to moderate and will depend on the proximity of each school to the construction traffic routes selected by LA Metro.

Off-campus projects may have minor impacts to existing traffic circulation conditions that could hinder access to nearby schools. The CIM Commercial Building Site and the Santa Monica Redevelopment construction activities may create minor impacts to nearby schools identified in Section 3.11 (i.e., Schools 7, 10, 11, 16). The Trident Center Modernization construction activities may create additional minor cumulative impacts to nearby schools (i.e., Schools 8 and 15). Impacts due to Fox Studios Master plan are not expected as it is far enough away from ongoing school functions.

#### 5.6.1.5 Parks and Recreation

Construction activities linked to the Columbarium project may cause minor impacts to Jackie Robinson Stadium due to the close proximity to the site. These impacts may include auditory/visual distractions and potential impacts to stadium access or parking due to construction traffic. The renovation and/or rehabilitation of the historic properties and other North Campus projects also has the potential to affect access to recreational areas of the campus due to traffic. However, due to the smaller scale of these projects, the impacts are expected to be minor compared to the impacts of the Proposed Action alone. Under Alternative C (the maximum development alternative) of the Proposed Action, there is potential for redevelopment of the Heroes Golf Course, MacArthur Field, and/or portions of Veterans Barrington Park for new supportive housing. During construction (and subsequent operation), those recreational resources would not be accessible to users.

Construction activities linked to the Purple Line extension may potentially have moderate, short-term adverse impacts on parks and open spaces on campus, primarily to the South Campus. LA Metro is planning to use parts of Wadsworth Park for lay down space, as well as boring operations throughout the long-term duration of construction activities. Access to this open space will be restricted during construction activities. Cumulative impacts due to construction activities of off-campus projects are not expected to parks and recreational facilities.

## **5.6.2** Impacts from Operations

The planned and future operation of existing buildings to be renovated, the Columbarium, the Purple Line Westwood/VA Hospital station, and newly added building under the Proposed Action would result in significant changes to the WLA Campus. Potential cumulative impacts to community services could occur from these facility operations. Operational impacts of all cumulative projects, with the exception of the Purple Line Westwood/VA Hospital Station, are expected to be negligible. While the long-term operation of the Purple Line is expected to benefit Veterans by dramatically increasing their access to the WLA Campus, additional Metro riders will increase overall local traffic and cause impacts. Specifically, operation of the Purple Line Westwood/VA Hospital Station will increase all forms of traffic (e.g., bicycle, pedestrian, scooter, vehicle) surrounding and within the WLA Campus. This increase in overall traffic could potentially disrupt existing use of sidewalk routes or traffic circulation patterns which would impact all community services, particularly access to medical care. As discussed previously, the maximum development alternative of the Proposed Action would also result in decreased availability of recreational resources.

# 5.7 Transportation and Traffic

Certain aspects of cumulative impacts for transportation and traffic are addressed in Section 4.13, Transportation and Traffic. Because the evaluation criteria for impacts in Section 4.13 require consideration of a future scenario, changes in the transportation infrastructure between the present and the year 2029 have all been analyzed and discussed in Section 4.13. This section discusses cumulative impacts that are more localized in nature, primarily as a result of the anticipated new Purple Line Westwood/VA Hospital Station. Construction and operation of the new Westwood/VA Hospital Purple Line Station may affect traffic circulation, parking, and access near the VA main hospital (Building 500).

# **5.7.1** Impacts from Construction

As documented in the Final EIS/EIR for the Purple Line extension, the LPA locates the Westwood/VA Hospital Station on the South Campus within 500 feet of Building 500 (LA Metro, 2012). The proposed timelines for construction activities associated with the Proposed Action and Westwood/VA Hospital Purple Line Station are expected to overlap. Proposed Action activities are projected to occur between 2019 and 2029, whereas construction of Section 3 of the Purple Line expansion is currently projected to occur between 2019 and 2025. As a result, anticipated impacts to local traffic volumes, access, and parking to the construction site area from the Proposed Action need to be considered in conjunction with construction impacts from the Westwood/VA Hospital Station.

Haul routes will experience increased traffic during the period of construction and increased traffic is expected from workers commuting to the site. These impacts could be moderate to major, particularly during the period when VA and LA Metro construction overlap. Both VA and LA Metro construction contractors will prepare site-specific traffic-control plans to minimize construction impacts to the degree possible for the various work zones. Traffic-control plans would follow state and local jurisdictional guidelines and standards, and closures would be developed in close coordination with Caltrans, Los Angeles County, and the City of Los Angeles. However, although cumulative impacts to traffic circulation are temporary and would be reduced with mitigation, certain impacts could remain adverse and unavoidable during construction.

As the Westwood/VA Hospital Station is planned to be constructed in the current location of VA Parking Lot 42, which has 418 parking spaces, many of those spaces will be permanently lost once station construction begins. In addition, LA Metro has proposed using part of VA Parking Lot 43 as a construction staging area, which will result in the temporary loss of some portion of the 379 parking spaces available at that location. The Proposed Action includes the replacement of parking spaces on the South Campus with a new parking structure. However, the timing of construction of the new parking structure is not yet defined and there may be a period of time where parking supply in the South Campus is significantly reduced, by up to 797 spaces.

Since the issuance of the Final EIS/EIR, LA Metro has proposed some project refinements to the Westwood/VA Hospital Purple Line station configuration and is in the process of evaluating and documenting the environmental impacts of those refinements in a 130(c) Environmental Technical Memorandum prepared in accordance with 23 CFR § 771.130. VA is working with LA Metro to provide inputs to the 130(c) evaluation.

# 5.7.2 Impacts from Operations

Impacts to local transportation and traffic from operation of the Proposed Action in conjunction with operation of the new Westwood/VA Hospital Station would be greater than those of the Proposed Action alone. While the extension of the Purple Line results in overall transportation benefits and reduction in vehicle miles traveled, there could be an increase in local traffic and disruptions in the immediate vicinity of the South Campus. Circulation patterns could be adversely impacted as passengers are dropped off at the station or drive to the station to initiate their ride, and existing sidewalks would be used by hundreds of additional pedestrians, bikes, and scooters traversing existing routes that routinely used by slower moving Veterans and patients. As part of the 130(c) analysis, LA Metro is revisiting the analysis of

anticipated trip generations, intersection impacts, and effects on circulation. VA is working with LA Metro to provide inputs to that evaluation.

Although long-term parking at the WLA Campus (more than 30 minutes) would be prohibited for Purple Line users, VA anticipates that some riders will nonetheless seek available parking within walking distance of the station (i.e., within one-half mile). The WLA Campus has several parking lots within walking distance of the future station that are intended for patients and staff but are currently open to the public without restrictions. According to LA Metro initial estimates in 2012, daily demand for parking at the station would be an estimated 394 parking spaces. While Alternatives C and D of the Proposed Action include construction of new parking on the South Campus (see Chapter 2, Alternatives), it is parking intended to serve the patients and staff versus Metro riders. VA and LA Metro are continuing ongoing discussions regarding potential impacts relating to parking spillover as a result of the Westwood/VA Hospital Station and potential strategies to prevent adverse impacts to the WLA Campus and surrounding areas.

#### 5.8 Utilities

Public utilities include water supply, sanitary sewer system, stormwater management, electrical and natural gas supply, solar, steam and condensate return, and communications. These public services and utilities are owned and operated by federal, county, and private organizations. The cumulative impact analysis considers the net effects of the Proposed Action and past, present, and reasonably foreseeable actions described in Section 3.16, on the capability of public service and utility providers to meet the cumulative demand for service. Because project-specific data are not available for all projects, the cumulative analysis was conducted on a qualitative basis. Coordination and approvals from communications and utility providers would be obtained for temporary or permanent utilities relocation or service interruptions, as appropriate.

#### **5.8.1** Impacts from Construction

All projects for new construction planned on the WLA Campus, including building upgrades, demolition, and new construction of buildings under the Proposed Action, the planned EULs, the Purple Line extension, and the Columbarium under construction, would require connection to existing service lines and in some cases, connections to new service lines. However, much of this would be performed in conjunction with the broader construction activities taking place on the WLA Campus.

Cumulative impacts of the building upgrades, newly constructed buildings, and demolition of buildings would require activities to connect to and/or upgrade the existing water distribution system at the WLA Campus. Improvements to the water system would involve removal and replacement of existing water lines to provide adequate potable water and fire suppression water to the proposed new buildings and Westwood/VA Hospital Purple Line Station to meet VA, state, and local building codes and design specifications as well as industry standards (e.g., NFPA). Constraint points in the current water supply system would be identified prior to construction, and service lines with insufficient capacity would be increased in size to accommodate. These projects could also require the installation of water pressure boosters or pump stations to ensure adequate water pressure at the new buildings.

Similarly, the Proposed Action projects, specifically the South Campus buildings, the planned EULs, and future rehabilitations to historic buildings, would require improvements to the existing sanitary sewer system at the WLA Campus to allow for the increased wastewater demand. Construction activities would include improvements to the sanitary sewer system, such as renovating or upgrading existing sewer lines to ensure adequate sizing.

Several of the Proposed Action projects, such as new construction in MacArthur Field and Heroes Golf Course, would involve construction activities in open grassy areas resulting in impacts to the amount of stormwater runoff on the WLA Campus. Construction activities would be required to install appropriate stormwater management systems, such as underground retention, dry wells, bioretention areas, and permeable pavements. Construction activities on the WLA Campus would meet the BMPs and erosion and sediment control strategies provided in the VA's *Site Development Design Manual* and/or applicable state and local codes. LA Metro would be required to obtain a Construction General Permit for its Purple Line construction activities.

Cumulatively, the construction activities would require a temporary increase in power consumption. The construction of the Purple Line at the WLA Campus would require temporary dedicated power feeds from SCE. The metro station requires 16kv service and would use a combination of overhead and new underground conduits or vaults (LA Metro, 2018). The level of power (20MVA) required for construction of the new station has potential impacts for SCE and their ability to overcome any system constraints to the Sawtelle substation. Construction of any new buildings would temporarily increase electricity demand, yet the impacts are expected to be short-term and minor.

Construction activities for past, present, and reasonably foreseeable actions identified in Table 3.16-1 would have no expected impact upon the steam system. The LA Metro is working with VA to realign existing steam lines to avoid conflicts with Purple Line construction needs. Buildings proposed for replacement on the South Campus, such as the main hospital (Building 500) and nearby health care facilities, would be decentralized from the steam system. All newly constructed buildings on the WLA Campus are not proposed to connect to the steam system (see Section 5.8.2.6, Steam and Condensate Return).

Construction activities for the proposed projects on the WLA Campus described in Table 3.16-1 would not impact or disrupt communications systems on the WLA Campus. Construction of new buildings would result in updates to communications systems, while demolition of individual buildings would remove old communications.

Cumulatively, impacts from construction activities related to utilities would be relatively minor, and indistinguishable from the overall construction activities taking place on the WLA Campus tied to the Proposed Action. Mitigation measures would be implemented throughout all construction activities to minimize any construction-related impacts.

#### **5.8.2** Impacts from Operations

Cumulative impacts for the past, present, and reasonably foreseeable projects on the WLA Campus, as identified in Table 3.16-1 would result in increases in utility demand. However, it is not expected that the increased demand would differ greatly from impacts for the Proposed Action described in Section 4.14,

Utilities. Impacts from operations are considered as moderate to minor and less than significant. Project-specific data are not available for all projects under consideration; thus, the analysis was conducted on a qualitative basis.

## 5.8.2.1 Water Supply

The Proposed Action activities are estimated to increase projected water demand 139 percent, to an estimated 695 M gal per year (1.904 mgd) for Alternative C (maximum development alternative), as described in Section 4.14.5.2. The addition of past, present, and foreseeable actions on the WLA Campus identified in Table 3.16-1 would also increase water demand (except for the proposed historic buildings renovations and/or rehabilitations, which would not impact water demand). The WLA Campus' consumption of water is projected to increase with additional residents and facilities. Increased water usage would result from newly constructed or upgraded residential buildings under the Proposed Action, irrigation for the Columbarium, water usage for bathrooms and cleaning in the Westwood/VA Hospital Purple Line Station, and the proposed EUL renovations and rehabilitations. However, these projects are expected to produce a minor increase in water usage over the Proposed Action. Potential upgrades to water lines and connections on the WLA Campus during construction activities could provide a beneficial impact with newer pipes. Overall impact to the water supply in the Los Angeles region would be negligible.

## **5.8.2.2 Sanitary Sewer System**

Under Alternative C (maximum development alternative), estimated projected wastewater generation would increase by 138 percent, to an estimated 660 M gal per year (1.808 mgd), as described in Section . The cumulative impact of past, present, and reasonably foreseeable actions identified in Table 3.16-1 on the WLA Campus would likely increase wastewater generation. Relative to the overall wastewater generation projected under the Proposed Action, wastewater generation from the renovated EULs, Purple Line extension, and the Columbarium would be minor. Potential upgrades to wastewater and connections during construction activities could provide a beneficial impact to the WLA Campus with the installation of newer pipes. Overall impact to the greater Los Angeles region, with four wastewater treatment plants providing services to four million people, would be negligible.

#### **5.8.2.3 Stormwater Management System**

The Proposed Action activities are projected to increase building-generated stormwater runoff by 83 percent, from 19,463 gpm currently to 35,590 gpm for Alternative C, the maximum development alternative, which is attributed to the additional impervious cover and loss of open grassy areas (Table 4.14-8). Based on a previous hydraulic analysis, the 10-year peak stormwater flow for the overall WLA Campus is 248,635 gpm (Leo A. Daly, 2017). New building impervious cover constructed under the Proposed Action is therefore projected to increase site stormwater runoff to 264,762 gpm or an increase of 6.1 percent. Stormwater discharges would continue to be covered under the WLA Campus's existing MS4 Permit issued by the SWRCB. The additional past, present, and reasonably foreseeable actions occurring on or near the WLA Campus (Table 3.16-1) would result in a minor increase in stormwater runoff as those projects are generally planned within existing building site areas and parking lots, which are already impervious.

The WLA Campus' stormwater management system would need to be expanded to capture the additional runoff. Because the net new footprint is greater than 5,000 GSF, VA would be required to comply with EISA Section 438 and to implement LID techniques, such as bioretention areas, permeable pavements, cisterns/recycling, or green roofs. LID techniques must mimic pre-development stormwater runoff conditions by using site design techniques that store, infiltrate, evaporate, and detain stormwater runoff. A 2017 stormwater analysis report for the South Campus identified installation of an underground retention system connected to dry wells as the best option to manage expected runoff on the South Campus (Leo A. Daly, 2017b). The existing stormwater system coupled with project-specific stormwater improvements would be expected to have the capacity for stormwater increases. Therefore, impacts to stormwater from the cumulative actions are expected to be minor.

## 5.8.2.4 Electrical and Natural Gas Supply

As described in Section 4.12.3.2, the WLA Campus electrical demand for the Proposed Action is projected to increase by 100 percent for Alternative C (maximum development alternative), from an estimated 56,156 MWh to 112,406 MWh, due to the overall load of the newly constructed or renovated and fully occupied buildings. The EUL buildings are expected to contribute to the load increase since the buildings are currently vacant or underutilized. Upgrades to the existing electrical distribution system may be warranted for the North Campus proposed EUL renovations as many of the ductbanks and wiring currently in use are near capacity.

The Purple Line extension would require electrical power for vehicle propulsion and station operations. Based on the proposed location for the Westwood/VA Hospital Purple Line Station, relocation of utility and electrical lines would need to occur. LA Metro has estimated permanent power needs for the Westwood/VA Hospital Purple Line Station at 10 MVA. LA Metro is working with SCE for a permanent power feed from the Sawtelle substation to meet the proposed metro station's permanent power needs.

The steam plant on the North Campus is the largest consumer of natural gas on the campus. New buildings constructed under the Proposed Action will be decentralized off steam and moved onto natural gas, resulting in a slight increase of overall natural gas consumption as the steam plant usage will decrease. Earlier projections for natural gas consumption for the Proposed Action show a slight increase of 4,422 MMBtu (2 percent) with a total demand of 246,422 MMBtu. The other past, present, and reasonable foreseeable projects identified in Table 3.16-1 may also use natural gas. The natural gas distribution system on WLA Campus runs at a low pressure currently and would require upgrades to run at a higher pressure to service the new buildings and newly occupied buildings sufficiently. The cumulative impact to natural gas service would be minor.

#### 5.8.2.5 Solar

The Proposed Action is expected to remove solar PV arrays currently at the WLA Campus as part of construction activities for new buildings. Although new buildings would be constructed, the worst case analysis for solar assumes that these solar PV arrays are not replaced. The Proposed Action estimated a projected decrease in solar production by 1,051 MWh, a 10 percent decrease. With the Purple Line extension, existing solar PV arrays in Parking Lot 42 would be removed; VA is working with LA Metro to identify a replacement location for the arrays. Solar production on the WLA Campus could further

decline as result, causing a minor cumulative impact. Should any removed solar PV arrays be replaced or relocated on the WLA Campus, solar production would begin to return to current solar production levels.

#### 5.8.2.6 Steam and Condensate Return

With the new health care and research facilities on the South Campus and new residential facilities in the North Campus relying on natural gas instead of the current steam distribution system, an overall decrease in steam demand by an estimated 122,723 Klb (75 percent decrease) would be experienced under Alternative C, the maximum development alternative (Table 4.14-8). The other projects identified in Table 3.16-1, including EULs and the Purple Line extension, may also use steam but are not expected to have a large demand on the steam system. The cumulative impact on the steam distribution system would be minor.

#### 5.8.2.7 Communications

Table 3.16-1 projects include renovations/rehabilitations to existing buildings or new construction, both of which would have updated communications infrastructure. New and efficient communications systems would likely result in reduced demands to electrical systems and less maintenance. No cumulative impact on the communications system is expected.

# 5.9 Environmental Justice

The projects considered in the cumulative impacts analysis for environmental justice include those listed in Section 3.16, Other Past, Present, and Reasonably Foreseeable Actions. The cumulative analysis projects would pose similar human and environmental health risks to those of the Proposed Action (see Section 4.15, Environmental Justice). Thus, the Proposed Action in conjunction with these projects could result in cumulative environmental justice impacts and/or cumulative health and safety risks to children, as described in the sections below.

The potential for the Proposed Action to have cumulative environmental justice impacts in conjunction with the off-campus projects identified in Table 3.16-2 would be limited. The three projects located within one mile of the WLA Campus do not have the intensity, duration, or scale to substantially contribute to construction- or operation-related environmental justice impacts in conjunction with the Proposed Action. The large Fox Studios Master Plan development is located too far (2.9 miles) from the WLA Campus to contribute to environmental justice impacts in conjunction with the Proposed Action.

# **5.9.1** Impacts from Construction

#### 5.9.1.1 Impacts to WLA Veteran Environmental Justice Population

The existing and future Veteran population residing on the WLA Campus is considered an environmental justice population because of VA's focus on providing housing for homeless Veterans, most of whom have very low incomes, and a substantial portion of whom are of minority status. In addition, many of the Veterans who visit the WLA Campus constitute an environmental justice population because they are of low income and/or minority status. Many members of both these Veteran groups have special sensitivities, such as susceptibility to mental health triggers or respiratory ailment triggers, relative to the general population. By virtue of living on or visiting the WLA Campus, members of Veteran

environmental justice populations potentially would be exposed disproportionately, relative to the general population, to cumulative human and environmental health impacts from construction of the Proposed Action together with construction of the cumulative analysis projects. The following aspects of construction are most likely to result in such impacts:<sup>50</sup>

- Increases in traffic, changes to parking, changes to building entry/egress locations, and changes in movement of pedestrians and vehicles around the WLA Campus. Cumulatively, there would be greater disruptions over time or at given points in time than would occur for the Proposed Action alone. These disruptions would create stress and frustration for some Veterans, potentially resulting in impacts to mental or physical health. Construction of the Purple Line poses a particular concern because this project is located close to Bonsall Avenue, which is the only way to cross Wilshire Boulevard between North and South Campus. The Purple Line would likely result in increased vehicle traffic in this area and periodic disruptions to traffic traversing the campus. The project may also alter pedestrian patterns along Bonsall Avenue.
- Noise and vibration. Cumulative impacts from construction on vibration levels within the WLA Campus are expected to be minor. As described in Section 4.7, Noise and Vibration and Section 5.4, Noise, cumulative noise and vibration impacts would be short-term but potentially noticeable, particularly during demolition activities. VA construction activities would be limited to the daytime hours and are anticipated to cause only a minor disturbance to nearby sensitive receptors; however, the LA Metro Purple Line construction may include nighttime activities that could cause a disturbance to nearby sensitive receptors. Veterans with combat experience, PTSD, or other mental health disorders could mistake loud sounds from the construction activities as explosions or gun fire and could trigger adverse mental and physical reactions, thereby affecting social interactions. These construction phenomena could trigger adverse mental and physical reactions and also could disrupt mental health care treatment activities. Cumulatively, the intensity of noise and vibration could be greater due to simultaneous occurrence, and the frequency of these events and resulting disruptions probably would be greater than would occur for the Proposed Action alone. Veterans walking along Bonsall Avenue between North and South Campus or using the north entrance of the hospital would be most exposed to these potential impacts from Purple Line construction.
- **Production of air pollutant emissions including particulate emissions.** Certain air emissions could be problematic for sensitive receptors, including Veterans with respiratory ailments. The cumulative air quality impact, depending on construction completion timeframe of the cumulative analysis projects, could affect Veterans visiting the campus to receive health care services or living in nearby residential buildings. Construction emissions would be temporary in nature.
- Generation of impacts that are cultural, economic, or social in nature. This would include disruption of resident and visitor social interactions based on current living, social, and medical service spaces. Cumulatively, these disruptions would be greater than for the Proposed Action alone. The Purple Line would create additional division of the community due to its location by the Wilshire Boulevard and Bonsall Avenue intersection. This would be exacerbated in the

<sup>50</sup> In referring to Veterans, the specific concern is with Veterans who are members of environmental justice populations. These risks could also apply to other Veterans, but the focus of this section is on Veteran environmental justice populations.

cumulative context because demolition and redevelopment of the hospital and other South Campus medical buildings under the Proposed Action would substantially alter how Veterans interact in the course of obtaining services on the South Campus.

• Safety risks if Veterans seek unauthorized entry to buildings that are vacant or under construction. At times these risks would be greater cumulatively due to more projects occurring on the WLA Campus than would occur for the Proposed Action alone.

The cumulative human and environmental health impacts identified above would be minor to most Veterans and could be further reduced through application of BMPs and mitigation measures (Chapter 6, Mitigation, Monitoring, Minimization, and Best Practices). More serious impacts would affect Veterans with unique susceptibilities due to certain physical and mental health conditions. These impacts would be temporary, and exposures would cease with completion of construction. However, in a cumulative context, many of these impacts would be longer in duration, occur more frequently, or occur simultaneously and therefore at higher intensity relative to impacts of the Proposed Action alone.

These potential cumulative impacts would be minimized and mitigated by implementation of BMPs and mitigation measures. Examples of such practices and measures that VA would take for each of the impact types mentioned above are listed in the discussion of environmental justice impacts for Alternative C (Section 4.15.5.1, Impacts from Construction) and are reiterated in Chapter 6. VA would implement these actions for both the Proposed Action and VA cumulative analysis projects to reduce or eliminate cumulative impacts on Veteran environmental justice populations.

With respect to cumulative impacts of the Proposed Action in combination with the Purple Line, VA has worked with LA Metro to identify the likely impacts of the Purple Line on Veteran environmental justice populations, particularly those Veterans with special sensitivities due to their mental and/or physical health conditions. VA mitigation measures identified in Chapter 6 and LA Metro BMPs and mitigation measures identified in the 2012 LA Metro Final EIS/EIR in combination would further reduce the less than significant cumulative impacts on Veteran environmental justice populations using the WLA Campus.

For some individual Veterans with severe health conditions, such as extreme PTSD or severe respiratory ailments, some cumulative impacts potentially could remain unavoidable. VA health care providers would be vigilant in providing increased case management for these Veterans. Mitigation Measure CS-3 would include provide employee training to WLA medical professionals and law enforcement service employees to recognize and manage these situations.

# 5.9.1.2 Impacts to Adjacent Community Environmental Justice Populations

This section considers the potential cumulative effects of construction on the WLA Campus on adjacent communities, and then considers whether any such effects constitute environmental justice impacts.

As described in the previous subsection, traffic, noise and vibration, and air emissions would be greater over time and perhaps at specific points in time for the Proposed Action in combination with the cumulative analysis projects. Therefore, the potential for traffic, noise, vibration, and air quality impacts

to affect adjacent communities would be greater on a cumulative basis than for the Proposed Action alone. However, this potential would be substantially reduced with the application of mitigation measures.

Construction-related traffic would likely impact the vicinity of the WLA Campus at specific points in time, particularly during concurrent construction activities. Construction traffic control plans would be developed to help mitigate potential impacts of increased traffic and road closures. However, while traffic impacts may be short-term, they will be measurable and significant and may not be fully mitigated.

Noise and vibration from construction activities, even in combination at a given time, generally would attenuate rapidly with distance. Noise and vibration would be perceivable at multiple locations on the WLA Campus and off site, depending on the project location, but in most cases, these communities are located at greater distance from proposed VA construction sites than on-site VA residential and service facilities. Off-site communities are also located at a greater distance from the Purple Line construction areas, and in most cases beyond 500 feet from the noise source. In addition, with respect to these construction sites, the I-405 Freeway forms an acoustic and vibration barrier for communities to the east.

Air emissions from the Purple Line extension in conjunction with the VA cumulative analysis projects would not intensify adverse air quality impacts in adjacent communities. In addition, the emissions from construction would be temporary in nature. VA would implement construction best practices (Chapter 6, Mitigation, Monitoring, Minimization, and Best Practices) throughout all construction activities to minimize any construction-related impacts to air quality.

Mitigation measures identified for air quality, noise, community services, and traffic would ensure that potential environmental justice impacts and all potential effects on adjacent communities would be substantially reduced to minor (less than significant) levels by application of BMPs and mitigation measures (Chapter 6, Mitigation, Monitoring, Minimization, and Best Practices). For the VA cumulative analysis projects, VA would implement the same practices and measures identified for the Proposed Action. The LA Metro would implement a wide range of BMPs and mitigation measures for the Purple Line as identified in the 2012 Final EIS/EIR for the Purple Line extension project (LA Metro, 2012).

There would be no effects on adjacent community social systems (e.g., social interaction patterns) from cumulative construction projects on the WLA Campus. Members of these communities generally do not have social patterns based on regular visits to the WLA Campus. To the extent human and environmental health effects such as those described above are still measurable in the adjacent communities, they nonetheless would not be considered environmental justice impacts. This is because they would not disproportionately affect environmental justice populations. Section 3.15.2.1, Minority Population, identifies census tracts in proximity to the WLA Campus that have high prevalence of minority persons, persons in poverty, or limited English-speaking households. Most of the census tracts in close proximity to the WLA Campus do not have high minority populations. These same census tracts have more variation in the prevalence of poverty and limited English-speaking households, and some have high prevalence while some have low prevalence of one or both populations. This includes the census tracts east and west of the WLA Campus along Wilshire Boulevard, which is the primary area in which any off-

campus effects of the Purple Line construction project would occur.<sup>51</sup> Given these patterns in the locations of environmental justice populations, the residual effects of construction of the cumulative analysis projects on communities adjacent to the WLA Campus would occur in both environmental justice and non-environmental justice communities alike.

# 5.9.1.3 Impacts from Environmental Health and Safety Risks to Children

Potential health and safety risks to the very small number of children residing on the WLA Campus in staff housing would be greater on a cumulative basis than for the Proposed Action alone. This is due to the additional risks posed by the Purple Line, which is in proximity to the staff housing, and potentially by risks from construction of nearby cumulative analysis projects. These risks would be reduced to minor (less than significant) levels through the application of BMPs and mitigation measures instituted by VA (Chapter 6, Mitigation, Monitoring, Minimization, and Best Practices) and by LA Metro.

Potential health and safety risks to children in adjacent communities or nearby schools generally would be greater on a cumulative basis than for the Proposed Action alone but would be very limited and less than significant for the reasons mentioned in the discussion of impacts to adjacent community environmental justice populations in Section 5.9.1.2. That is, potential risks would be reduced substantially by distance from the additional construction sites, and BMPs and safety measures would be applied by VA and LA Metro. Regarding schools in particular, the Brentwood School and its athletic facilities are in proximity to projects considered under the Proposed Action. However, the school and facilities are at more than 0.25 miles from the cumulative analysis projects; thus, there would be no additional impacts to the Brentwood School on a cumulative basis.

# **5.9.2 Impacts from Operations**

Operations under the Proposed Action and the cumulative analysis projects described in Section 3.16, Other Past, Present, and Reasonably Foreseeable Actions, would not create any appreciable new human or environmental health impacts.

Once construction is completed, the Proposed Action and cumulative analysis projects would provide improved facilities and services to meet the full continuum of health care services required by eligible Veterans. The Purple Line extension would provide increased and lower cost access to the facilities and services of the WLA Campus for Veterans in the Los Angeles region.

In summary, on a cumulative basis, there would be substantial operations benefits to Veterans, including members of Veteran environmental justice populations. Additionally, there would be few if any adverse human or environmental health impacts to the adjacent communities, or environmental health and safety risks to children from operations of the Proposed Action and the cumulative analysis projects although adjacent communities may be sensitive to the changes. The adjacent communities would experience some increases in traffic as more Veterans visit the WLA Campus to take advantage of increased services. While the extension of the Purple Line results in overall transportation benefits and reduction in vehicle

It is important to note that the portion of Census Tract 7011 east of the I-405 Freeway has a very small residential population. Most of that area comprises the Los Angeles National Cemetery north of Wilshire Boulevard and a multipurpose federal office facility south of Wilshire Boulevard. The only residential population in the area is the Westwood Transitional Living Village, located in a small parcel between the I-405 Freeway and South Sepulveda Boulevard and north of Ohio Avenue. This 40-unit residential facility, operated by the Salvation Army, is substantially blocked by the I-405 Freeway from effects of VA or LA Metro construction on the WLA Campus.

miles traveled, adjacent communities may experience increase in local traffic and disruptions. This traffic increase would be greater than under the Proposed Action alone, but still would represent a marginal increase to traffic in the vicinity of the WLA Campus. It would affect census tracts identified in Section 3.15, Environmental Justice, that have environmental justice populations and census tracts that do not have such populations. Therefore, impacts would not be disproportionate on environmental justice populations in the adjacent communities.

# 5.10 Potential for Generating Substantial Controversy

This section describes the Proposed Action's potential for generating substantial controversy. As documented in Chapter 7, Agency Coordination and Public Involvement, VA has solicited input from a wide range of stakeholders regarding the Proposed Action for the WLA Campus. VA's NOI to write an EIS for the WLA Campus was published in the *Federal Register* on May 19, 2017 (82 FR 23135). The NOI encouraged all stakeholders (e.g., federal, state, tribal, general public) to submit written comments identifying specific issues or topics of environmental concern to be addressed. Through VA's scoping and communication efforts, more than 860 individuals and organizations were notified of the Proposed Action. In addition, since the Proposed Action was first announced, multiple newspaper articles have been published and TV segments have been produced. These articles and broadcasts have occurred at the local, regional, and even national level.

VA received public input during the three scoping meetings on June 24, 25, and 26, 2017. During the scoping meetings and the associated comment period, some residents of the WLA Campus or those in nearby communities expressed opposition to the Proposed Action or aspects of WLA Draft Master Plan. These stakeholders expressed concerns regarding the potential for increases to traffic congestion on and near the WLA Campus, changes in availability of the WLA Campus for community uses, and changes to the Veteran housing or treatment locations for Veterans being served at the WLA Campus. Community members have also expressed concerns regarding the construction of additional facilities that would occur on undeveloped land or areas that share boundaries with local residential homes.

The issues of concern that were identified through scoping meetings and the public comment process and that are within the scope of this PEIS have been evaluated in this analysis.

# 5.11 Unavoidable Adverse Impacts

This section describes the unavoidable adverse impacts that may occur as a result of this Proposed Action for the WLA Campus. Unavoidable adverse impacts are those that would occur if an alternative is implemented, even with the application of mitigation measures as listed in Chapter 6, Mitigation, Monitoring, Minimization, and Best Practices. The following unavoidable adverse impacts have been identified:

<u>Air Quality</u>: Based on the conservative modeling assumptions applied for Alternatives C and D, the construction and operation emissions of the projects would result in an exceedance of significance thresholds for criteria pollutant emissions for several years of the construction phase. As described in Section 4.2, as the specific building design details and project schedules under those alternatives are further developed, VA will reevaluate the potential for exceeding significance thresholds and will work with SCAQMD as needed for conformity determinations.

<u>Cultural Resources, Including Historic Properties</u>: Alternatives B and C involve the demolition of multiple resources contributing to the WLA VA NRHD, which would result in significant adverse impacts to individual historic buildings as well as to the WLA VA NRHD, including the potential removal of the historic district from the NRHP.

<u>Noise</u>: Construction and demolition-related noise impacts could occur under Alternatives B, C, and D, and have the potential to impact sensitive receptors due to the abundance and distribution of such receptors on campus. The intensity of those impacts would depend on the location of the projects and their locations compared to receptors. While mitigation measures such as daytime scheduling of construction activities and noise shielding would be implemented, short-term noise impacts above significance thresholds could occur.

<u>Traffic</u>: Construction traffic impacts could occur under Alternatives A, B, C, and D. Due to the proximity of the WLA Campus to the I-405 and being located north and south of Wilshire Boulevard, which are both major haul routes, users of the area roadway network could experience the effects of construction-related traffic during some periods of the construction phase (2019-2029). Potential impacts on traffic conditions associated with construction activities are typically considered short-term adverse impacts. Construction management plans will be put in place to mitigate these short-term traffic impacts.

<u>Socioeconomics:</u> The reduction in economic activity based on the demolition of buildings proposed under Alternative B would be an unavoidable adverse impact to the local economy and the social patterns of Veterans that reside on or visit the WLA Campus.

# 5.12 Relationship Between Short-Term Uses of the Environment and the Maintenance and Enhancement of Long-Term Productivity

The CEQ's NEPA regulations under 40 CFR § 1502.16 require consideration of the relationship between short-term uses of the environment and the maintenance and enhancement of long-term productivity. This section describes these considerations and involves review of whether an alternative would sacrifice value that might benefit the environment in the long-term for some short-term value to the Federal Government or the public. In this analysis, short-term refers to a time span of approximately five years, including continued uses that would not change and the construction and initial operation of any new facilities. Generally, short-term uses are those that determine the present quality of life for the public including Veterans utilizing VA health care services, WLA Campus employees, and local communities. Long-term refers to VA's ongoing operation of existing or new facilities for as long as the location is operated by VA and all time thereafter.

The current use of the WLA Campus is that of providing a full continuum of medical services to eligible Veterans and others through the main hospital and outpatient care, rehabilitation, residential care, and long-term care services. Through educational partnerships, the Campus also serves as a center for medical research and education. The WLA Campus has been a medical center since the late 19<sup>th</sup> century and by law is planned to remain so for the foreseeable future under this Proposed Action. Therefore, the current use of the environment is likely to remain the same in both the short-term and long-term. The provision of additional homeless housing would represent an improvement to the human environment. No measurable difference in the current level of impact to long-term productivity of the human or natural

environment is anticipated, regardless of changes that may be made in the levels of activities of WLA Campus facilities.

#### 5.13 Irreversible or Irretrievable Commitments of Resources

This section describes the potential for irreversible or irretrievable commitments of resources that may occur from the Proposed Action for the WLA Campus. The CEQ NEPA regulations under 40 CFR § 1502.16 require an analysis of any irreversible and irretrievable commitments of resources, such as the use or consumption of a resource that is neither renewable nor recoverable, or the unavoidable destruction of environmental resources. Irreversible or irretrievable commitments of resources from the PEIS alternatives include fossil fuel-based energy consumption and use of nonrenewable materials for construction and operation. Construction, operation, and transportation would mainly rely on fossil fuel-based energy to run construction equipment, supply conditioning (heat and cool air), and electricity for operation of facilities, and power, and private/public/volunteer transportation of patients to and from the WLA Campus. Based upon the future utility needs, energy would primarily be consumed in the form of gas and oil generated electricity, fuel oil, natural gas, propane, gasoline, and diesel fuel. Materials from nonrenewable sources used for construction and operation include those produced from mined materials, including metals, or petroleum-based plastics, polymers, and other materials.

VA's SSPP and the *VA Sustainable Design Manual* identify approaches for reducing energy and water, finding renewable or alternative energy solutions, and using recycled and sustainably produced materials. The provisions of the SSPP and the *VA Sustainable Design Manual* will be applied agency-wide to all construction projects, including during implementation of the selected alternative from the WLA Campus EIS process, reducing the irreversible and irretrievable commitment of resources. Similarly, for third-party projects proposed for the WLA Campus, mandatory state and local green building codes and other related requirements would reduce resource commitments.

WLA Campus Draft Master Plan

## 6 Mitigation, Monitoring, Minimization, and Best Practices

The CEQ NEPA regulations requires an EIS to discuss the means to mitigate adverse environmental impacts identified (40 CFR § 1502.16(h)). Mitigation includes:

- Avoiding the impact altogether by not taking a certain action or parts of an action;
- Minimizing impacts by limiting the degree or magnitude of the action and its implementation;
- Rectifying the impact by repairing, rehabilitating, or restoring the affected environment;
- Reducing or eliminating the impact over time by preservation and maintenance operations during the life of the action; and
- Compensating for the impact by replacing or providing substitute resources or environments (40 CFR § 1508.20).

The term "mitigation" also refers to measures used to resolve adverse effects to historic properties identified through the integrated NHPA Section 106 consultation process; see Section 6.3, Cultural Resources, Including Historic Properties.

The measures and best practices identified in this PEIS include compliance with applicable federal, state, and local requirements; BMPs incorporated into an alternative; and additional VA-specific protective measures. Where relevant for a particular alternative, the following mitigation, monitoring, minimization, and best practices can reduce the adverse impacts that were identified in Chapter 4, Environmental Consequences.

#### 6.1 Aesthetics

Construction, demolition, and renovations to buildings that add to the visual character and quality of the WLA Campus can represent a significant impact that would be mitigated through implementation of Mitigation Measure HIST-1, *Apply SOI Standards and CHRP*.

While there are no significant impacts on aesthetics with regards to settings and landscapes or light pollution, the following mitigation measures would be incorporated to the preferred alternative to ensure that impacts are avoided or minimized.

## **AES-1: Minimize Light Trespass**

- For VA-led projects, outdoor lighting must comply with the VA Lighting Design Manual requirements. Outdoor luminaires will meet Dark Sky recommendations and must be full cutoff.
- For private developer projects, exterior lighting must comply applicable local codes, including the following City of Los Angeles municipal code requirements:
  - O Chapter 9, Article 3, Sec. 93.0117. No exterior light source may cause more than two footcandles (21.5 lx) of lighting intensity or generate direct glare onto exterior glazed windows or glass doors; elevated habitable porch, deck, or balcony; or any ground surface intended for uses such as recreation, barbecue or lawn areas or any other property containing a residential unit or units.

o Chapter 1, Article 2, Sec. 12.21 A5(k). All lights used to illuminate a parking area shall be designed, located and arranged so as to reflect the light away from any streets and any adjacent premises.

#### **AES-2: Maintain Vegetation Buffers**

Retain existing vegetation buffers (e.g., trees, bushes, overgrowth) on the north, northwest, and northeast property boundaries. Where new construction will change the existing landscape or viewsheds from neighboring properties, provide additional vegetation buffers or planting of trees for long-term visual shielding.

## 6.2 Air Quality

Construction- and operation-related activities on the WLA Campus may have significant adverse impacts on emissions of criteria pollutants and TACs. The following mitigation measures, in addition to Mitigation Measures UT-1, TT-1, TT-2, and TT-4 would be incorporated to the preferred alternative to ensure that impacts on air quality are minimized where possible.

#### **AQ-1: Apply Dust Control Measures**

- All projects must apply SCAQMD Rule 403 best available control measures for fugitive dust.
- VA-led projects must additionally implement the dust control requirements of the VA Site Development Design Manual.

#### **AQ-2: Reduce Heavy Equipment Emissions**

- Construction equipment for VA-led projects will meet the most stringent of applicable federal or state standards (e.g., Tier 4 engine standards) or the equivalent retrofitted construction equipment to achieve Tier 4 engine emission standards.
- All projects must limit idling of construction vehicles to no more than in accordance with 13 CCR Section 2449, General Requirements for In-Use Off-Road Diesel-Fueled fleets.

## 6.3 Cultural Resources, Including Historic Properties

The measures listed in this section are intended to avoid or minimize adverse effects to cultural and historic resources on the WLA Campus. If adverse effects to historic resources are unavoidable, VA will implement mitigation measures commensurate with the effect as described in the draft PA included as Appendix B of this PEIS.

Under NHPA and 36 CFR § 800.14, federal agencies can develop a PA to establish a process for consultation, review, and compliance. PAs are legally binding and often are the preferred document for complex, long-term, and/or multi-phase undertakings. Following execution of the WLA PA, VA will develop a CHRP specific to application of the *SOI Standards* to the historic built resources located at the campus. Use the *SOI Standards*, and the CHRP once finalized, will help VA avoid, minimize, and/or mitigate the potential adverse effects of implementation of the Draft Master Plan on historic built

resources. Measures to resolve adverse effects included in the PA were developed by VA in consultation with SHPO, ACHP, and other consulting parties as well as with input from members of the public.

#### **HIST-1: Apply SOI Standards and CHRP**

For all demolition, maintenance, rehabilitation, renovation, replacement, construction of new buildings and building additions, and repair WLA Campus resources, VA will first apply *SOI Standards* and, once finalized, the CHRP. Key mitigation, monitoring, and best practices for historic resources include:

#### • General

- 1. A property will be used as it was historically or be given a new use that requires minimal change to its distinctive materials, features, spaces and spatial relationships.
- The historic character of a property will be retained and preserved. The removal of
  distinctive materials or alteration of features, spaces and spatial relationships that
  characterize a property will be avoided.
- 3. Each property will be recognized as a physical record of its time, place and use. Changes that create a false sense of historical development, such as adding conjectural features or elements from other historic properties, will not be undertaken.
- 4. Changes to a property that have acquired historic significance in their own right will be retained and preserved.
- 5. Distinctive materials, features, finishes and construction techniques or examples of craftsmanship that characterize a property will be preserved.
- 6. Deteriorated historic features will be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature will match the old in design, color, texture and, where possible, materials. Replacement of missing features will be substantiated by documentary and physical evidence.
- 7. Chemical or physical treatments, if appropriate, will be undertaken using the gentlest means possible. Treatments that cause damage to historic materials will not be used.
- 8. Archeological resources will be protected and preserved in place. If such resources must be disturbed, mitigation measures will be undertaken.
- 9. New additions, exterior alterations or related new construction will not destroy historic materials, features and spatial relationships that characterize the property. The new work will be differentiated from the old and will be compatible with the historic materials, features, size, scale and proportion, and massing to protect the integrity of the property and its environment.
- 10. New additions and adjacent or related new construction will be undertaken in such a manner that, if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired (Secretary of the Interior, 1975).
- For proposed WLA Campus Historic Preservation Area A as identified in the draft PA, limit the
  height of new construction to prevent adverse effects to the viewsheds of surrounding historic
  properties.
- For WLA Campus Historic Preservation Area B, avoid demolition of the Wadsworth Chapel (Building 20) and Building 23, as this would significantly affect the integrity of the WLA VA

- NRHD. When possible, site additions to the back/rear of a historic building to minimize the impact. Limit the height of new construction to two stories above grade.
- For WLA Campus Historic Preservation Area C, additions should be "compatible" with the scale, massing, and proportions of the existing historic building or structure, and preservation of the spatial relationships between certain buildings (i.e., 214, 215, 217, 218) is more important than the addition of a third story. Construction no greater than three stories is most appropriate and if new construction must exceed this height, the taller construction should be sited closer to San Vicente Boulevard and Brigham Avenue.
- For WLA Campus Historic Preservation Area D, avoid demolition Preservation Priority 1 buildings as this would significantly affect the integrity of the WLA VA NRHD. The height of building additions is recommended to not exceed three stories. New buildings construction should be no greater than three stories along Bonsall, Patton, Vandegrift, and Arnold Avenues as well as on the eastern side of MacArthur Avenue. If new construction must exceed this height, the taller construction should be sited outside the building formations, and instead along the eastern sides of Bonsall and Patton Avenues.
- For WLA Campus Historic Preservation Area E, buildings constructed at the present location of Veterans Barrington Park should utilize a deep setback from South Barrington Avenue. The planting of mature trees can further help shield new construction in areas such as the border between WLA Campus Historic Preservation Areas D and E. WLA Campus construction along South Barrington Avenue is recommended to not exceed three stories in height. If taller construction is needed, new buildings should be provided a deep setback or "stepped" from a lower height to a taller one away from the neighborhood.
- For WLA Campus Historic Preservation Area F, new buildings construction should be limited to fewer than four stories to avoid indirect effects to portions of the WLA VA NRHD in Historic Preservation Areas B, C, and D. Additions to buildings at a higher topography should be placed at the rear of the building (i.e., toward I-405) to the extent feasible.

#### **HIST-2: Implement Archeological Measures**

VA has consulted with SHPO, ACHP, and state-recognized Native American tribes to develop an archeological sensitivity model that delineates areas of the WLA Campus by their potential to hold intact archeological deposits. The WLA Campus *Archeological Sensitivity Model* (ASM) was finalized in June 2018. VA will apply the guidance of the ASM to identify potential archeological deposits in areas proposed for ground disturbance as required for implementation of the ASM.

If deposits are identified, VA will apply the Criteria for Evaluation as stated in 36 CFR 60.4 to determine if the deposit is eligible for listing in the NRHP. VA will forward its determinations to SHPO and other Consulting Parties for review in accordance with the draft PA (included in Appendix B of this PEIS).

If deposits are determined eligible and VA determines it cannot alter its construction plans to avoid the resource, VA will consult with SHPO and other Consulting Parties with an interest in the specific archeological materials to develop a data recovery plan. VA will implement the plan once finalized.

Materials of significance recovered from archeological sites determined eligible for the NRHP that are not subject to repatriation under the NAGPRA, 25 U.S.C. § 3001 et seq., shall be curated at the UCLA Fowler Museum pursuant to the curation agreement (to be signed). Any human remains or funerary/burial objects that are identified shall be treated as outlined in the draft NAGPRA Plan of Action as described in Mitigation Measures HIST-3, *Implement Measures for Inadvertent Discovery of Human Remains*.

#### **HIST-3: Implement Measures for Discovery of Human Remains**

If human remains are discovered during construction, VA will follow procedures consistent with California Health and Safety Code Section 7050.5 and Public Resources Code Section 5097.98. If the Los Angeles County Coroner determines that the remains are of Native American origin and outside the jurisdiction of the Los Angeles County Coroner and/or the Los Angeles County Sheriff, VA will comply with the provisions of the draft NAGPRA Plan of Action.

## 6.4 Geology and Soils

Construction- and operation-related geology and soils impacts are none to minor. However, potential geology and soil impacts would be further minimized through implementation of the measure below and Mitigation Measure AQ-1.

#### **GEO-1: Apply Erosion Control Measures**

- VA-led projects must apply erosion and sediment control strategies provided in VA Site
   Development Design Manual and VA Master Construction Specifications, Section 01 57 19,

   Temporary Environmental Controls, which include:
  - o Minimize the amount of exposed soils around project site where possible.
  - o Install silt fences, straw bales, plastic ground cover, erosion control fabric, or rip-rap surrounding the project site.
  - Limit areas affected by vehicular traffic or subsoiling (i.e., soil ripping) to depths of 20 inches.
  - o Minimize areas of soil compaction where possible.
  - o Quickly revegetate disturbed areas following project completion
- Private developer projects must comply with applicable local codes for development of an erosion and sediment control plan (ESPC).

## 6.5 Hydrology and Water Quality

There are no intermittent or perennial surface waterbodies on the WLA Campus (Section 3.5, Hydrology and Water Quality). Construction- and operation-related water quality impacts are none to minor. Although no significant water impacts are anticipated from the preferred alternative, potential impacts would be minimized through implementation of the measures below and Mitigation Measure GEO-1.

#### **WQ-1: Implement Stormwater Management for Construction Activities**

- All projects disturbing more than one acre of land will require a NPDES Construction General Permit (CGP) and a stormwater pollution prevention plan (SWPPP) to minimize the potential for discharge of pollutants from the site during construction activities.
- VA-led projects must additionally follow the strategies of the VA Site Development Manual for stormwater management.
- Private developer projects must additionally comply with applicable local codes, including the Los Angeles County Code Chapter 12.80, Stormwater and Runoff Pollution Control.

#### **WQ-2:** Use Low Impact Development (LID) Techniques

- VA-led projects must follow the requirements of the *VA Site Development Manual* as a design approach for new construction to minimize impacts to site characteristics and drainage patterns. For development areas larger than 5,000 GSF, comply with the requirements of EISA 538 to restore the pre-development hydrology to the maximum extent practicable.
- Private developer projects must comply with applicable local codes for LID, including the Los Angeles County Code Chapter 12.84, Low Impact Development.

#### 6.6 Wildlife and Habitat

Although no wildlife and habitat impacts are anticipated from construction- and operation-related activities, the mitigation measures below would be incorporated to the preferred alternative to ensure that wildlife and habitat impacts are avoided.

#### WH-1: Apply Migratory Bird Impact Reduction Measures

VA contractors and private developers will avoid disturbing nests for migratory bird species in accordance with the Migratory Bird Treaty Act and California State Codes 3503 and 3503.5. During the nesting season (February 1 through August 31), construction areas will be surveyed for nesting birds, and active nests will be avoided.

#### WH-2: Protect Existing Trees and Vegetation

VA-led projects will follow the strategies of the *VA Site Development Manual* for landscape planning, including saving existing mature trees and vegetation where possible, particularly non-invasive trees or plan species. If construction or demolition activities require the removal or pruning of a protected tree, VA or its contractor will obtain a tree removal permit from the Los Angeles Board of Public Works in accordance with the City of Los Angeles' Native Tree Protection Ordinance.

#### WH-3: Revegetate or Plant with Native Trees and Vegetation

VA-led projects will follow the strategies of the *VA Site Development Manual* for landscape planning, including using native trees and vegetation for new landscaping to minimize water and other maintenance requirements and reduce the quantity of invasive species on the WLA Campus.

For private developer projects, comply with applicable local codes associated with sustainable landscaping, including the Los Angeles County Green Building Standards Code (Title 31).

#### 6.7 Noise and Vibration

Construction-related noise has the potential to be significant in the short-term for individual sensitive receptors depending on the location and duration of the construction activities. All construction- and operation-related noise and vibration impacts have the potential to be an adverse impact would be minimized through implementation of the measures below.

#### **NOI-1: Minimize Noise during Construction Activities**

- No outdoor construction activities using heavy equipment will be conducted during nighttime hours or any time on Sundays or holidays, consistent with the Los Angeles County Code Section 12.08.440 (Construction Noise) or other local noise ordinance, whichever is more stringent.
- VA-led projects will apply noise control measures according to VA Master Construction Specifications, Section 01 57 19, Temporary Environmental Controls, including:
  - Provide sound deadening devices on equipment.
  - o Maintain sound shielding during high noise generating activities.

#### **NOI-2: Monitor Construction Noise and Vibration**

- VA will monitor exterior noise levels at on-site receptors located closest to a particular construction site for a 24-hour period at the onset of each major phase of construction (e.g., demolition, trenching, structure erection). If noise levels are found to exceed 55 dBA Ldn, VA will implement additional measures to reduce noise levels at affected on-site receptors as a result of construction noise. If noise levels are found to exceed 55 dBA Ldn, implement additional measures to reduce noise levels at affected on-site receptors:
  - o Install temporary acoustic attenuating features/barriers.
  - o Prevent line of sight between receptor and noise source.
  - o Provide in-room sound-masking equipment (e.g., white noise).
- VA will monitor vibration levels at the nearest interior location of adjacent medical structures
  containing vibration-sensitive equipment to monitor potential impacts from construction. If
  measured vibration levels exceed 65 VdB and would disturb the operation of sensitive medical
  equipment, implement additional measures to reduce vibration levels.
  - o Providing notice to equipment operators to coordinate timing of construction activities with vibration levels above 65 VdB.
  - o Temporarily relocate sensitive equipment.
  - o Installing isolation equipment (i.e., vibration-dampening mounts).
- VA will manage and monitor noise disturbance during construction activities conducted on-site. The project engineer will be responsible for responding to and addressing complaints received from staff, patients, or nearby residents with respect to construction noise. Contact information

will be available in the Engineering Office and will be provided to the community. When complaints are received, the project engineer will notify the WLA Medical Center Safety and Emergency Management Service to conduct necessary surveys and determine the necessary actions needed to lessen the disturbance.

#### 6.8 Land Use

There are no anticipated impacts to land use, and no recommended mitigation measures for this resource area.

## 6.9 Floodplains, Wetlands, and Coastal Zones

No impacts are anticipated to floodplains, wetlands, and California coastal zone, and no recommended mitigation measures for this resource area. The WLA Campus lies outside the 100-year and 500-year flood hazard zones. No development is proposed near the wetland. The WLA Campus is not within the coastal zone and is three miles northeast of the nearest coastal zone boundary (California Coastal Commission, n.d.).

#### 6.10 Socioeconomics

Operational impacts from the preferred alternative would cause a beneficial impact to the Los Angeles County economy with additional jobs, labor income, and over \$350 million in economic output. Although construction-related impacts would be negligible, potential impacts would be minimized through implementation of the measures associated with air quality, noise, community services, and traffic.

### **6.11 Community Services**

While there are no significant impacts on the provision of community services from the Proposed Action, the mitigation measures below would be incorporated to the preferred alternative to ensure that impacts are avoided or minimized.

#### **CS-1: Develop Construction Phasing and Sequencing Plan**

VA will develop a sequencing plan for all renovation/demolition/new construction activities for all the anticipated work. The sequencing plan would detail the schedule of construction and the relocation of services as buildings are undergoing work to ensure continuity of services at the WLA Campus.

## CS-2: Manage Worker Safety, Fire, and Security Risks at Construction Sites

- All projects will comply with OSHA Construction Safety standards in 29 CFR Part 1926.
- VA-led projects will require contractor compliance with VA Master Construction Specification 01 35 26, Safety Requirements, and 01 00 00, General Requirements, Construction Security. Requirements include:
  - O Development of an accident prevention plan in accordance with 29 CFR Part 1926 Subpart B to be submitted to VA prior to the preconstruction conference.

- o Designation of a Site Safety and Health Officer (SSHO).
- Mandatory OSHA 10-hour training for all workers and OSHA 30-hour training for Trade Competent Persons.
- o Minimum daily job site safety and health inspection during periods of work activity.
- Site monitoring and security fencing to prevent unauthorized entry to buildings and construction sites.

#### **CS-3: Provide WLA Employee Training**

VA will provide initial or refresher training to all WLA Campus Medical professionals, as well as law enforcement service employees, to help deal with situations requiring specialized skills, such as patients having PTSD episodes. This includes situations associated with construction impacts such as loud noises or disruptions in traffic and pedestrian circulation.

#### **CS-4: Develop Construction Communications Plan**

The WLA Communications Teams will develop and implement a construction communication plan to relay updates, warnings, and important details relevant to the campus construction activities to patients, visitors, staff, and residents on the WLA Campus and to local elected officials, businesses, and residents. Elements of the Construction Communications Plan could include:

- Early information and schedules on expected locations and duration of construction activities.
- Use of signage on campus to help direct patients and campus visitors to their destinations safely.
- Updates on construction activities during quarterly town hall meetings.

#### 6.12 Solid Waste and Hazardous Materials

While there are no significant impacts with regards to solid waste and hazardous materials, the mitigation measure below would be incorporated to the preferred alternative to ensure that impacts are minimized.

## **WASTE-1: Require Construction Waste Management Plans**

- VA-led projects will require construction contractor to submit to VA construction waste management plans that include a minimum waste diversion rate of 50 percent for C&D debris.
- Private developer projects must comply with Title 31 of the Los Angeles County Code (Green Buildings), which requires newly constructed projects and additions and alterations to existing buildings to recycle and/or salvage for reuse a minimum of 65 percent of the non-hazardous C&D debris or meet a local C&D waste management ordinance, whichever is more stringent.

## **6.13 Transportation and Traffic**

Specific mitigation measures were developed to address the potential transportation and traffic impacts associated with implementation of Alternatives C and D. Mitigation measures would be implemented for the areas and intersections that were identified as being potentially significantly impacted. Mitigation measures that VA would apply to alleviate potential impacts to transportation and traffic on- and off-campus include the following:

#### TT-1: Implement Transportation Demand Management (TDM) Plan

A TDM would be developed and implemented to reduce the number of vehicle trips generated by the project (especially during the peak commute periods). TDM strategies encourage travelers to and from the project to use alternative travel methods (e.g., transit, walking, bicycling), through the provision of information services and various programs and physical amenities. TDM plan measures could include:

- Enhanced shuttle service.
- Designation of On-Site Transportation Coordinator.
- Dissemination of information on alternative travel methods (including website, bulletin boards, kiosks).
- Designated parking for employee carpools and vanpools.
- Employee and resident orientation sessions.
- Flexible/alternative work schedules.

#### TT-2: Implement Transportation Systems Management (TSM) Plan

The TSM Plan will increase the person trip capacity of the transportation system in West Los Angeles by employing measures to shift area travelers out of the drive-alone automobile mode of travel and by improving the intersection roadway capacity. The TSM Plan consists of providing assistance to the City of Los Angeles with the following measures:

- Signal upgrades such as ATCS improvements or other signal improvements.
- An Expo Line/West Los Angeles and/or other Transit/West Los Angeles shuttle, this service could be provided through an existing transit agency, such as Metro or LADOT.
- Enhancements to the shared-car programs serving the West Los Angeles area where parking is usually the biggest issue.
- Implementation of a WLA Campus charging station for the LADOT electric-vehicle car sharing program.
- Transit network improvements such as BRT lanes and bus station improvements on Santa Monica Boulevard and Wilshire Boulevard.
- Bicycle system upgrades such as a West Los Angeles Bike Share Program or bicycle lane installation program.
- Pedestrian amenities on nearby roadways, especially on routes to transit stops.
- Neighborhood traffic management programs to reduce through traffic intruding onto local streets.

## **TT-3: Implement Circulation Improvement Plan**

A Circulation Improvement Plan would be implemented to improve existing access to and circulation within the WLA Campus. The Circulation Improvement Plan would include recommendations for improving internal circulation via:

- Roadway reconfigurations.
- Traffic calming measures.
- Improved transit accessibility and connectivity.
- Enhanced pedestrian sidewalks.
- Bicycle infrastructure to be built in a manner to close existing gaps in the overall bicycle network.

• Offer direct connections to the future LA Metro Westwood/VA Hospital Station.

#### **TT-4: Implement Construction Management Plan**

A Construction Management Plan will be developed by the contractor for each construction project and approved by the City of Los Angeles that will outline, but is not limited to, the following:

- Identify the locations of the haul routes and off-site truck staging. Specify detailed measures to ensure that trucks use the specified haul routes and staging areas, and do not travel through nearby residential neighborhoods.
- Schedule truck trips to ensure that there are no vehicles waiting off site and impeding public traffic flow on the surrounding streets.
- Establish requirements for loading/unloading and storage of materials on the WLA Campus to shift haul trips to off-peak hours.
- Coordinate work areas and haul routes with the City of Los Angeles and emergency service
  providers to ensure adequate access is maintained to the WLA Campus and neighboring
  businesses.
- During construction activities when construction worker parking cannot be accommodated on
  site, a Construction Worker Parking Plan will be prepared to identify alternate parking location(s)
  to be used by construction workers and the method of transportation to and from the WLA
  Campus (if beyond walking distance). The Construction Worker Parking Plan will be prepared in
  consultation with the City of Los Angeles, will prohibit construction worker parking on
  residential streets, and will prohibit on-street parking on City of Los Angeles streets, except as
  approved by the City of Los Angeles.

The Construction Management Plan will also contain preliminary traffic control plans:

- For any traffic controls on City of Los Angeles streets, a work site traffic control plan would be
  required to be approved by the City of Los Angeles to ensure that any construction-related effects
  are minimized to the greatest extent possible.
- All construction sites entirely within the WLA Campus will require traffic control plans approved by VA. Traffic controls lasting shorter than 72 hours must conform to the Worksite Area Traffic Control Handbook (WATCH) manual.
- Traffic controls lasting 72 hours or longer must conform to the California Manual on Uniform Traffic Control Devices.

#### 6.14 Utilities

The Proposed Action would result in changes to utility demand with operational increases in water, wastewater generation, steam, electricity, and natural gas demands. Underground service lines and pipelines may need to be replaced or expanded, and new service connections would need to be made. While none of the impacts are significant, the mitigation measures below, in addition to Mitigation Measure GEO-1, would be incorporated to the preferred alternative to ensure that impacts to utilities are avoided or minimized.

#### **UT-1: Apply Sustainable Building Design Standards**

- VA-led projects will apply VA Master Specification Section 01 81 13, Sustainable Construction Requirements, and the *VA Sustainable Design Manual*, to all new construction and major building upgrade projects.
- Private developer projects must meet the U.S. Green Building Council LEED Silver certification
  or higher or other compatible sustainable certification, and meet applicable local codes, including
  the Los Angeles County Green Building Standards Code (Title 31).

#### **UT-2: Coordinate with Utility Providers**

VA contractors and private developers will coordinate with utility providers during the preliminary engineering and final design, and construction stages of the project. Coordination will include:

- Identifying and physically locating existing utilities during engineering and design to avoid conflicts with the proposed projects.
- Field-verifying existing utilities prior to the start of construction
- Planning for the location and requirements for new or upgraded utility services
- Minimize or eliminate interruption in utility service to customers.

## **6.15 Environmental Justice**

Implementation of the mitigation measures identified for other resource areas, particularly air quality, noise, community services, and traffic would also ensure that potential environmental justice impacts would be reduced to negligible or minor levels in most cases.

# 7 Agency Coordination and Public Involvement

### 7.1 NEPA Public Involvement Process

VA welcomes and has supported public participation in the NEPA process. Public involvement allows for full and fair discussion of significant environmental impacts. Consideration of the views and information of all interested persons promotes open communication and enables better decision-making. All agencies, organizations, and individuals with an interest in the Proposed Action at the WLA Campus have been, and are, encouraged to participate in the PEIS process, as shown in Figure 7.1-1.



Figure 7.1-1. PEIS Process

VA provided opportunities for public involvement during the preparation of the Draft PEIS. Scoping is the first phase of the NEPA process and provides interested parties the chance to comment on the alternatives and offer suggestions about the issues to be considered. Scoping identifies relevant issues early in the NEPA process to ensure that the alternatives are thoroughly developed. VA published notices in the *Federal Register* and the *Los Angeles Times*, and notified thousands of Veterans; federal, state, and local government officials; non-governmental organizations; and the public regarding the scoping opportunities and invited them to participate in the PEIS scoping process. VA conducted several inperson scoping meetings to solicit input on the issues, concerns, and alternatives related to the Proposed Action at the WLA Campus.

In addition, VA has developed a project website to disseminate information to the public throughout the PEIS development process. This website is actively maintained, updated, and is located for full public access at: <a href="www.westladraftmasterplan.org/documentation">www.westladraftmasterplan.org/documentation</a>. Interested parties can also request to be added to the email distribution list at <a href="www.westladraftmasterplan.org/documentation">WHAGLAMasterPlan@wa.gov</a>.

#### 7.1.1 Public Notification

Development of the PEIS began with publication of the NOI in the *Federal Register* on May 19, 2017 (82 FR 23135), included in Appendix A of this PEIS. The NOI included information regarding the Proposed Action and alternatives, and opened a 44-day public comment period that ended June 30, 2017. In addition to the publishing the NOI in the *Federal Register*, VA distributed 774 email announcements to Veterans, VSOs, and interested parties who had been previously involved in the Draft Master Plan and were part of the email distribution list. In accordance with the NHPA, 21 letters and 23 emails were also submitted to invite stakeholders to participate in the Section 106 consultation. These stakeholders included the CA SHPO, ACHP, California Native American Heritage Commission, the 1887 Fund, and others.

## 7.1.2 Scoping Meetings and Public Comment Period

A newspaper notice was published in the *Los Angeles Times* on May 25, 26, and 28, 2017 to announce the dates for three in-person scoping meetings. VA conducted the scoping meetings on June 7, 8, and 9, 2017 at the WLA Campus. Each of the three meetings started with a one-hour poster session where the public could review informational materials about the Proposed Action and talk to VA staff about the project and the PEIS. Each scoping meeting also included a project overview presented by VA's PEIS team. Topics discussed included an overview of the Proposed Action, alternatives under consideration, and a review of the NEPA process. After the presentation, attendees provided verbal comments or left written comments.

During scoping, 67 attendees participated in the in-person meetings with 19 individuals providing verbal comments, and written comments were received from nine individuals and organizations. Additionally, six comments were submitted via email during the comment period. Commenters included federal, state, and local agencies; environmental organizations; local Veterans; and individual citizens. The primary scoping comment themes were traffic and parking, accessibility, and Veteran support. All meeting materials, including the *Los Angeles Times* newspaper notice and the scoping meeting posters and presentation are included in Appendix A of this PEIS.

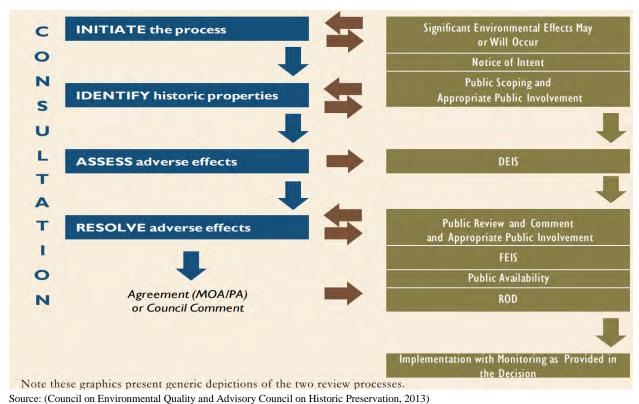
#### 7.1.3 Future Public Involvement Activities

Interested public and local, regional, state, and federal agencies are invited to review the Draft PEIS during the planned 45-day comment period. During this review period, VA will hold meetings in the community to answer questions and receive comments on the Draft PEIS. Written comments will be accepted through the end of the comment period and may be submitted electronically (through www.regulations.gov or VHAGLAMasterPlan@va.gov) or by mail.

VA will review and consider all comments received and will prepare responses to these comments. All comments received will help support finalization of the PEIS. The Final PEIS will be released for a minimum 30-day period prior to issuance of the ROD. The ROD will concisely document VA's final decision regarding the chosen alternative for the Proposed Action at the WLA Campus.

## 7.2 NEPA/NHPA Substitution and Consultation

The ACHP's implementing regulations of Section 106 of the NHPA encourage federal agencies to coordinate compliance between the NHPA and NEPA. Coordination is outlined in 36 CFR § 800.8 and further described in NEPA and NHPA: A Handbook for Integrating NEPA and Section 106 (Council on Environmental Quality and Advisory Council on Historic Preservation, 2013). In the interests of efficiency, completeness, and facilitating public involvement, VA chose to substitute NEPA for compliance with Section 106 so that all historic and cultural impacts could be addressed together through consultation with all appropriate parties. This process is summarized in the "Checklist for Substitution" created by CEQ and the ACHP and included in Appendix C of this PEIS. Figure 7.2-1 illustrates the consultation processes for Section 106 and NEPA compliance.



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Figure 7.2-1. NHPA Section 106 and NEPA Consultation Processes

# 7.2.1 Notice of Use of Substitution and Invitation to Participate in Consultation

On March 23, 2017, VA met with representatives of the CA SHPO to informally discuss VA's proposal to substitute NEPA compliance for compliance with the Section 106 process. On May 19, 2017, VA formally notified the CA SHPO, the ACHP, state recognized tribes with a geographic and/or cultural affiliation with the WLA Campus area and related stakeholder groups of their intent to use substitution and invite these organizations to participate in consultation as Consulting Parties. A copy of the notification/invitation to consultation is included in Appendix C of this PEIS.

## 7.2.2 Identification of Consulting Parties

Federal agencies are required to invite the SHPO and the ACHP to participate in consultation, as well as representatives of local governments, applicants for federal approvals related to the undertaking, and organizations with a demonstrated interest in the historic properties of the project area. VA reviewed past WLA Campus consultation efforts, past public participation concerning the Draft Master Plan process, and local groups with specific interests in historic properties to develop a list of Consulting Parties.

On May 19, 2017, VA initiated consultation by inviting the following 20 groups to participate in consultation related to WLA Campus historic properties:

- CA SHPO (California Office of Historic Preservation (OHP)
- ACHP
- California Native American Heritage Commission
- City of Los Angeles, Department of City Planning, Office of Historic Resources
- National Trust for Historic Preservation
- Los Angeles Conservancy
- 1887 Fund
- California Preservation Foundation
- Historical Society of Southern California
- Los Angeles City Historical Society
- Society for California Archaeology
- Veterans Park Conservancy
- Los Angeles City/County Native American Indian Commission
- Los Angeles County Board of Supervisors
- Gabrielino Band of Mission Indians
- Gabrielino Tongva Indians of California Tribal Council
- Gabrielino/Tongva Nation
- Gabrielino/Tongva San Gabriel Band of Mission Indians
- Gabrielino-Tongva Tribe
- Tongva Ancestral Territorial Tribal Nation.

This initiation informed the parties of the proposed redevelopment, notified all parties of the intent to use substitution, and invited the parties to participate in public scoping meetings held June 7, 8, and 9, 2017, at the WLA Campus. The following seven parties responded to VA with their intent to participate in consultation:

- ACHP
- CA SHPO
- 1887 Fund
- Los Angeles Conservancy
- Veterans Park Conservancy
- Gabrielino Tongva Indians of California Tribal Council
- Tongva Ancestral Territorial Tribal Nation (TATTN)

On September 27, 2017, the Chairman of the Gabrielino Band of Mission Indians-Kizh Nation contacted the Director of the GLAHS regarding the undertaking. Representatives of the Chairman and Director exchanged emails and phone calls from October 6 until November 7, 2017, attempting to find a meeting time that worked for both parties. On November 7, 2017, the Director invited the Chairman or other representative of the Band to participate in the first consultation held November 29, 2017. Neither the Chairman nor other representatives of the Gabrielino Band of Mission Indians-Kizh Nation participated in the meeting or sent comments. VA added the Gabrielino Band of Mission Indians-Kizh Nation to the list of accepted Consulting Parties and provided correspondence to the Chairman accordingly.

On October 1, 2018, VA invited the Torres Martinez Desert Cahuilla Indians, California and the Soboba Band of Luiseno Indians, California to participate in consultation related to the undertaking. As of November 26, 2018, neither tribe had responded to the invitation.

## 7.2.3 Identification of Historic Properties

During the public scoping meetings held in June 2017, VA presented the APE and the known historic properties within that area. A map of the APE and identified historic properties is included as Figure 4.3-1. None of the alternatives include plans for off-campus construction, the use of other spaces within the GLAHS but not within the WLA Campus, or construction that exceeds the height(s) of current campus buildings. The APE for the consultation related to aboveground historic properties has been limited to the WLA Campus and the LANC. Historic properties within the built resource APE include:

- The WLA VA NRHD, including the LANC
- The Wadsworth Chapel (Building 20)
- The Streetcar Depot (Building 66).

The APE for archeological resources will be limited to places where ground disturbance is necessary for the selected alternative. Previous archeological investigations on the WLA Campus have identified archeological deposits, and VA is aware of the potential of the property to yield additional deposits. VA has chosen to phase identification of additional archeological sites. No comments on the APEs were received at the public scoping meetings. On July 11, 2017, the CA SHPO concurred with the APEs and the identification of historic properties, and no other Consulting Parties commented.

On November 29, 2017, the APE and associated historic properties were again presented to Consulting Parties at a consultation meeting. No comments about the APEs and identified historic properties were received following the consultation meeting.

On February 26, 2018, VA sent a follow-up letter to all Consulting Parties regarding the definition of the Undertaking, the identification of potential adverse effects, the APE, and potential resolution of effects. On April 12, 2018, the CA SHPO responded, concurring with the proposed APE for built resources. VA developed the ASM to identify the likelihood of areas of the WLA Campus to retain intact deposits. On April 4, 2018, VA distributed the model to Consulting Parties with expertise in the unique archeological signature of West Los Angeles for comment. VA received suggestions from the CA SHPO and the ACHP, and a request for later monitoring from the TATTN. VA incorporated comments and distributed a final ASM in June 27, 2018. Following distribution, VA also received comments from the TATTN on June 27, 2018.

#### 7.2.4 Assessment of Effects

On November 29, 2017, VA hosted a consultation working session with representatives of the Consulting Parties. VA presented information about each alternative at this session and the anticipated effect each alternative would have on the identified historic properties. On December 1, 2017, VA provided copies of the presentation and the ideas provided by meeting attendees to all Consulting Parties. VA requested additional suggestions, recommendations, and comments from Consulting Parties by December 15, 2017. No Consulting Parties responded within the requested period.

On February 26, 2018, VA sent a follow-up letter to all Consulting Parties regarding the definition of the undertaking, the identification of potential adverse effects, the APE, and potential resolution of effects. On April 12, 2018, the CA SHPO responded, concurring with VA's definition of the undertaking, the identification of potential adverse effects to build resources and the APE; restating their preference for alternatives that rehabilitate and reuse rather than demolish or abandon historic buildings; and suggesting architectural salvage and historic district design guidelines. VA's resolution for these effects will be through the development of a PA with the consulting parties.

#### 7.2.5 Resolution of Effects

VA consulted with the Consulting Parties during the November 29, 2017 consultation meeting regarding potential ways to avoid, minimize, or mitigate the effects of the proposed alternatives on the identified historic properties. VA and Consulting Parties suggested measures and discussed how such actions would comply with the stated Purpose and Need of the proposed undertaking. VA provided copies of the presentation and the ideas provided by meeting attendees to all Consulting Parties on December 1, 2017. VA requested additional suggestions, recommendations, and comments from Consulting Parties by December 15, 2017. No Consulting Parties responded within the requested period.

On February 26, 2018, VA sent a follow-up letter to all Consulting Parties regarding the definition of the undertaking, the identification of potential adverse effects, the APE, and potential resolution of effects. On April 12, 2018, the CA SHPO responded suggesting design review of new construction, materials salvage, and the development of publications for a general audience about the history of the WLA Campus.

Following the November 29, 2017, consultation meeting, VA began drafting a PA to address measures to resolve adverse effects to historic properties as a result of the Undertaking. A draft of the PA was distributed to all Consulting Parties for review and comment on October 25, 2018. VA hosted a meeting on November 15, 2018, to discuss the draft PA with Consulting Parties. During this meeting, VA reviewed the milestones of the substitution process. VA also described the proposed Preservation Priorities; the project review process; the mitigation measures; the process for identifying, evaluating, and, as appropriate, mitigating archaeological properties; and opportunities for Consulting Party comment on the draft PA and draft PEIS. VA will accept comments from all Consulting Parties on the draft PA and this PEIS through the close of the public comment period on the draft PEIS. A copy of the meeting presentation is included in Appendix C.

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## Appendix A. Public Scoping Materials

Appendix A contains the following materials:

- 1. Notice of Intent to Prepare a Programmatic Environmental Impact Statement, published in the *Federal Register* on May 17, 2017
- 2. Public scoping meetings announcement, published in the *Los Angeles Times* on May 25, 26, and 28, 2017
- 3. Scoping meeting posters
- 4. Scoping meeting presentation slides
- 5. Transcripts of public scoping meetings conducted June 7, 8 and 9, 2017



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average annual burden associated with this collection of information is 486 hours per report for the largest custodians of securities, and 110 hours per report for the largest issuers of securities that have data to report and are not custodians. Comments concerning the accuracy of this burden estimate and suggestions for reducing this burden should be directed to the Department of the Treasury, Office of International Affairs, Attention Administrator, International Portfolio Investment Data Reporting Systems, Room 5422, Washington, DC 20220, and to OMB, Attention Desk Officer for the Department of the Treasury, Office of Information and Regulatory Affairs, Washington, DC 20503.

### Dwight Wolkow,

Administrator, International Portfolio Investment Data Reporting Systems. [FR Doc. 2017–10160 Filed 5–18–17; 8:45 am] BILLING CODE 4810–25–P

### DEPARTMENT OF VETERANS AFFAIRS

[OMB Control No. 2900-0818]

Agency Information Collection Activity: VA National Veterans Sports Programs and Special Event Surveys Data Collection

AGENCY: Office of Public & Intergovernmental Affairs, Department of Veterans Affairs. ACTION: Notice.

SUMMARY: The Office of Public Affairs (OPA), Department of Veterans Affairs (VA), is announcing an opportunity for public comment on the proposed collection of certain information by the agency. Under the Paperwork Reduction Act (PRA) of 1995, Federal agencies are required to publish notice in the Federal Register concerning each collection of information and allow 60 days for public comment in response to the notice. This notice solicits comments on the information needed to evaluate the National Veterans Sports Programs and Special Event Surveys Data Collection is designed to allow program improvement and measure the tangible, quantifiable benefits of the events, using event applications. Information collected is used for the planning, distribution and utilization of resources and to allocate clinical and administrative support to patient treatment services. Data will allow the program office to ensure that the target audience is being reached, effective therapeutic treatments are being offered, and tangible, quantitative results are

being measured and tracked for continual improvement.

DATES: Comments and recommendations must be received on or before July 18, 2017.

ADDRESSES: Submit written comments on the collection of information through Federal Docket Management System (FDMS) at www.Regulations.gov; or to Cynthia Harvey-Pryor, Office of Information & Technology (005R1B), Department of Veterans Affairs, 810 Vermont Avenue NW., Washington, DC 20420; or email: cynthia.harvey-pryor@va.gov. Please refer to "OMB Control No. 2900–0818 (VA National Veterans Sports Programs and Special Event Surveys)" in any correspondence. During the comment period, comments may be viewed online through the FDMS.

FOR FURTHER INFORMATION CONTACT: Cynthia Harvey-Pryor, Enterprise Records Service (005R1B), Department of Veterans Affairs, 810 Vermont Avenue NW., Washington, DC 20420, (202) 461–5870 or email *cynthia.harvey-pryor@va.gov*. Please refer to "OMB Control No. 2900–0818" in any correspondence.

SUPPLEMENTARY INFORMATION: Under the PRA of 1995, Federal agencies must obtain approval from the Office of Management and Budget (OMB) for each collection of information they conduct or sponsor. This request for comment is being made pursuant to Section 3506(c)(2)(A) of the PRA.

With respect to the following collection of information, VHA invites comments on: (1) Whether the proposed collection of information is necessary for the proper performance of VHA's functions, including whether the information will have practical utility; (2) the accuracy of VHA's estimate of the burden of the proposed collection of information; (3) ways to enhance the quality, utility, and clarity of the information to be collected; and (4) ways to minimize the burden of the collection of information on respondents, including through the use of automated collection techniques or the use of other forms of information technology.

Authority: Public Law 104–13; 44 U.S.C. 3501–3521.

Titles: VA National Veterans Sports Programs and Special Event Surveys. OMB Control Number: 2900–0818. Type of Review: Extension with out change.

Abstract: The Department of Veterans Affairs (VA) administers National Rehabilitation Special Events for Veterans who are receiving care at VA medical facilities. Each event promotes the healing of body and spirit by motivating Veterans to reach their full potential, improve their independence, and achieve a healthier lifestyle and higher quality of life. Surveys are designed to allow program improvement and measure the tangible, quantifiable benefits of the events using event applications. Information collection is used for the planning, distribution and utilization of resources and to allocate clinical and administrative support to patient treatment services.

Affected Public: Individuals or households.

Estimated Annual Burden: 2782 burden hours.

Estimated Average Burden per Respondent: 2.552 minutes.

(a) National Disabled Veterans Winter Sports Clinic, VA Form 10107 (2.5 min.).

(b) National Veterans Creative ArtsFestival, VA Form 10108 (2.25 min.).(c) National Veterans Golden Age

Games, VA Form 10109 (2.5 min.). (d) National Veterans Summer Sports

Clinic, VA Form 10110 (2.25 min.). (e) National Veterans TEE Tournament, VA Form 10111 (2.75 min.).

(f) National Veterans Wheelchair Games, VA Form 10112 (2.75 min.). Frequency of Response: 28.75 (annual).

Estimated Number of Respondents: 2275.

By direction of the Secretary. Cynthia Harvey-Pryor,

Department Clearance Officer, Office of Privacy and Records Management, Department of Veterans Affairs.

[FR Doc. 2017–10094 Filed 5–18–17; 8:45 am]

BILLING CODE 8320-01-P

### DEPARTMENT OF VETERANS AFFAIRS

Notice of Intent To Prepare a Programmatic Environmental Impact Statement for the Department of Veterans Affairs, VA Greater Los Angeles Healthcare System (GLAHS), West Los Angeles Medical Center Campus, Proposed Master Plan for Improvements and Reconfiguration

AGENCY: Department of Veterans Affairs (VA).

ACTION: Notice of intent.

SUMMARY: VA intends to prepare a programmatic Environmental Impact Statement (EIS) for proposed improvements to and reconfiguration of the VA West Los Angeles Medical Center Campus (WLA). The WLA is part

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of the larger VA Greater Los Angeles Healthcare System (GLAHS) which serves tens of thousands of unique Veterans in Kern, Los Angeles, San Luis Obispo, Santa Barbara, and Ventura Counties

WLA Campus Draft Master Plan

DATES: All written comments on the proposal should be submitted by June 30, 2017. VA will consider all comments received during the 30-day public comment period in determining the scope of the programmatic EIS. VA plans to conduct several public scoping meetings, in the month of June 2017. within the WLA service area; the dates, times, and locations of which will be announced and published at least 14 days prior to.

ADDRESSES: Submit written comments on VA's notice of intent to prepare a programmatic EIS through www.Regulations.gov or VHAGLAMasterPlan@va.gov. Please refer to: "WLA Notice of Intent to Prepare a Programmatic EIS." Comments may also be submitted to Staff Assistant to the Director, VA Greater Los Angeles Healthcare System, 11301 Wilshire Boulevard, Los Angeles, California 90073.

FOR FURTHER INFORMATION CONTACT: Staff Assistant to the Director, VA Greater Los Angeles Healthcare System, at the address above or by telephone, 605-720-7170. Documents related to the WLA Master Plan Programmatic EIS will be available for viewing at http:// www.losangeles.va.gov/masterplan/. SUPPLEMENTARY INFORMATION: Pursuant to the National Environmental Policy Act (NEPA) of 1969 (42 U.S.C. 4331 et seq.); the Council on Environmental Quality (CEQ) Regulations for Implementing the Procedural Provisions of NEPA (40 CFR parts 1500-1508); United States Department of Veterans Affairs (VA) NEPA Implementing Guidance (38 CFR part 26); Section 106 of the National Historic Preservation Act (NHPA) of 1966 (54 U.S.C. Part 306108); and the Advisory Council on Historic Preservation (ACHP) Procedures for the Protection of Historic Properties (36 CFR part 800 et seq.), VA intends to prepare a programmatic Environmental Impact Statement (EIS) for proposed improvements to and reconfiguration of the VA West Los Angeles Medical Center Campus (WLA). The WLA is part of the larger VA Greater Los Angeles Healthcare System (GLAHS) which serves tens of thousands of unique Veterans in Kern, Los Angeles, San Luis Obispo, Santa Barbara, and Ventura Counties. The WLA is located at the major intersection of Sepulveda Boulevard, Interstate 405 (also known as the San Diego Freeway), and Wilshire

Boulevard in Los Angeles, California, in the densely urbanized Brentwood neighborhood, and encompasses approximately 388 acres. WLA is one of the largest medical center campuses in the VA system, providing a full range of medical services to eligible Veterans, including state-of-the-art hospital and outpatient care, rehabilitation, residential care, and long-term care services. It also serves as a center for medical research and education and a major training site for medical residence in partnership with the David Geffen School of Medicine at the University of California, Los Angeles (UCLA), and the University of Southern California (USC) School of Medicine, as well as more than 45 colleges, universities, and vocational schools in 17 different medical, nursing, and other health care and administrative programs. The proposed action would involve evaluating potential ways to reconfigure and redevelop the existing WLA, expand points of access, and provide additional housing to homeless Veterans based upon the Framework Master Plan, to better serve the health care needs and distribution of Veterans in the GLAHS service area over the next 20 to 30 years. The effects and impacts to be addressed would include those identified in 40 CFR 1508.8; i.e., Aesthetics, Air Quality, Historic and Cultural Resources, Geology and Soils, Hydrology and Water Quality, Noise, Land Use, Floodplains, Wetlands and Coastal Zone Management, Socioeconomics, Community Services, Solid and Hazardous Materials, Transportation, Utilities, Environmental Justice and Cumulative Impacts. Both beneficial and detrimental effects of the proposed action would be identified as well. As part of the scoping process, VA seeks public input on the relative importance of these and other areas of environmental concern, mitigation measures, and suggestions regarding additional environmental impacts that should be evaluated. In addition, VA is substituting the NEPA process for compliance with NHPA, in accordance with § 36 CFR 800.8 (c), and in keeping with the joint CEQ-Advisory Council on Historic Preservation (ACHP) guidance on how to use NEPA in lieu of the procedures set forth in § 36 CFR 800.3 through 800.6. This handbook for integrating NEPA and Section 106 is dated March 2013, and available at http://www.achp.gov/docs/NEPA NHPA Section 106 Handbook Mar2013.pdf. the meetings

With the publication of this notice, VA is initiating the scoping process to identify issues and concerns to be

addressed in the programmatic EIS. Federal, state, tribal and local agencies; environmental, historic preservation organizations; businesses; interested parties; and the general public are encouraged to submit written comments identifying specific issues or topics of environmental concern that should be addressed.

Proposed Action and Alternatives: The WLA Framework Master Plan is a visionary blueprint that will assist VA to determine and implement the most effective use of the campus for Veterans, particularly for homeless Veterans, including underserved populations, such as female Veterans, aging Veterans, and those who are severely physically or mentally disabled. The primary considerations include: (a) The provision of appropriate levels of supportive housing on the campus, in renovated existing buildings or newly constructed facilities, while taking into account the parties' assessment of available housing units in the greater Los Angeles community; (b) respect for individual Veteran choices on whether to seek housing at WLA or in the local community; (c) parameters of applicable law, including but not limited to, the appropriate integration of persons with disabilities into the community, and applicable environmental and historic preservation laws, regulations, and consultation requirements; and (d) the need for appropriate levels of bridge and emergency housing along with shortterm treatment services on campus, to provide state-of-the-art primary care, mental health, and addiction services to Veterans, particularly those that are chronically homeless.

The proposed action would involve multiple concurrent and/or subsequent projects to be executed. VA has identified several potential action alternatives to be analyzed in the Programmatic EIS for each grouping of projects. For each project or groupings

of projects:

1. Alternative A: Relocation of any existing tenants and services to another existing building, complete renovation and retrofit of the existing building or buildings for a new function and service

2. Alternative B: Relocation of any existing tenants and services to another existing building or buildings, complete renovation and retrofit of the existing building or buildings, and relocation of tenants back to the newly completed renovation;

3. Alternative C: Relocation of any existing tenants and services to another existing building or buildings, and the attendant complete demolition of former building or buildings, with construction

of completely new building or

WLA Campus Draft Master Plan

4. Alternative D: Relocation of any existing tenants and services to another existing building or buildings, complete demolition of former building or buildings, with no replacement of the demolished building or buildings;

5. Alternative E: Study of the impacts

5. Alternative E: Study of the impacts associated with the No Action or "status quo" alternative, as a basis for comparison to the action alternatives.

Relevant and reasonable measures that could alleviate or mitigate adverse effects and impacts also would be included. VA would undertake necessary consultations with other governmental agencies and consulting parties pursuant to the NHPA, Endangered Species Act, Clean Water Act, and other applicable environmental laws. Consultation would include, but is not limited to: Federal, state, tribal, and local agencies; the California Office of Historic Preservation as the State Historic Preservation Officer; and federally-recognized tribes with a geographic and/or cultural connection to the area. Information related to the NEPA process, including notices of

public scoping and other informational meetings will be available for viewing on the WLA Master Plan Web site: http://www.losangeles.va.gov/ masterplan/.

VA anticipates that many of the issues to be addressed in assessing the impacts of the alternatives may affect the physical plant of WLA. Most of the acreage of WLA is located within a National Register Historic District. The campus also contains buildings individually listed in the National Register of Historic Places and archaeological sites. Furthermore, the campus may contain archaeological sites not previously identified. In the interests of efficiency, completeness, and facilitating public involvement, it is VA's intention that all cultural impacts be addressed together, in consultation with all appropriate parties. To facilitate this inclusive process, VA will incorporate into its NEPA analysis process the review procedures for historic properties usually carried out separately under § 36 CFR 800.3 through 800.6 of the NHPA Section 106, a process known as substitution. This

process will include the opportunity for parties with a demonstrated interest in historic properties, as well as members of the public, to consult with VA on the identification of those properties, the evaluation of effects of the project on those properties, and the mitigation of those effects that are adverse to historic properties.

### Signing Authority

The Secretary of Veterans Affairs, or designee, approved this document and authorized the undersigned to sign and submit the document to the Office of the Federal Register for publication electronically as an official document of the Department of Veterans Affairs. Gina S. Farrisee, Deputy Chief of Staff, Department of Veterans Affairs, approved this document on May 15, 2017, for publication.

Approved: May 15, 2017.

### Jeffrey Martin,

Office Program Manager, Office of Regulation Policy & Management, Office of the Secretary, Department of Veterans Affairs.

[FR Doc. 2017-10158 Filed 5-18-17; 8:45 am]

BILLING CODE 8320-01-P

# Public Scoping Meetings: Environmental Impact Statement / Environmental Impact Report for West Los Angeles Campus Draft Master Plan

The U.S. Department of Veterans Affairs (VA) will host public scoping meetings to invite comments from Veterans, stakeholders, government agencies, and members of the public for an Environmental Impact Statement / Environmental Impact Report (EIS/EIR) regarding the West Los Angeles Campus Draft Master Plan. The EIS/EIR will evaluate a range of alternatives, including no action, for potential ways to reconfigure and redevelop the West Los Angeles Campus, expand points of access, provide additional housing for homeless Veterans, and better serve the health care needs of Veterans in the Greater Los Angeles service area over the next 20 to 30 years. Consultation on potential effects to historic resources, as required by Section 106 of the National Historic Preservation Act, will be integrated in this EIS/EIR process. The VA requests input on the development of these alternatives, potential environmental impacts from any alternatives, and suggestions to mitigate impacts. The content and format at each of the public scoping meetings will be the same.

Meeting dates: Wednesday, June 7th, 2017 from 5:00PM – 8:00PM

Thursday, June 8th, 2017 from 5:00PM – 8:00PM Friday, June 9th, 2017 from 8:30AM – 11:30AM

All meetings will be held at: Wadsworth Theater, VA West Los Angeles Campus

11301 Wilshire Boulevard, Building 226

Los Angeles, California 90073

Each meeting will begin with a thirty (30) minute open forum, during which participants can review displays, obtain handouts, and receive forms for submitting written comments. A brief presentation will begin approximately thirty (30) minutes after each meeting's identified start time. Following the presentation, the public will have the opportunity to provide oral comments regarding the VA's West Los Angeles Campus Draft Master Plan. Those who cannot attend or who prefer to provide written comments are encouraged to participate by submitting comments no later than June 30, 2017:

Paper Mail Comments: VA Greater Los Angeles Healthcare System

Attn: Environmental Impact Statement

Program Manager

11301 Wilshire Blvd., Bldg. 500/Rm. 6409

Los Angeles, CA, 90073

Electronic Mail Comments: <u>VHAGLAMasterPlan@va.gov</u>

For Additional Information: <a href="https://www.losangeles.va.gov/MasterPlan/">https://www.losangeles.va.gov/MasterPlan/</a>

This scoping process complies with the VA's procedures for preparing an EIS/EIR under the National Environmental Policy Act and the California Environmental Quality Act.



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\* Agency Commission not included

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Color Spec. B/W

### Preview

Public
Scoping Meetings:
Environmental Impact
Statement / Environmental Impact Report
For West Los Angles
Campus Draft Master
Plan

The U.S. Department of Veterans Affairs (VA) will host public scop-ing meetings to invite comments from Veterans, stakeholders, government agencies, and members of the public for an Environmental Impact Statement / Environmental Impact Report (EIS/ EIR) regarding the West Los Angles Campus Draft Master Plan. The EIS/EIR will evaluate a range of alternatives, including no action, for potential ways to reconfigure and redevelop the West Los Angeles Campus, expand points of access, provide additional housing for homeless Veterans, and better serve the health care needs of Veterans in the Greater Los Angeles service area over the next 20 to 30 years. Consultation on potential effects to historic resources, as required by Section 106 of the National Historic Preservation Act, will be integrated in this EIS/EIR process. The VA requests input on the develop-

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ment of these alternatives, potential environmental impacts from any alternatives, and suggestions to mitigate impacts. The content and format at each of the public scoping meetings will be the same.

Meeting dates: Wednesday, June 7th, 2017 from 5:00PM – 8:00PM Thursday, June 8th, 2017 from 5:00PM – 8:00PM Friday, June 9th, 2017 from 8:30AM – 11:30AM

All meetings will be held at: Wadsworth Theater, VA West Los Angeles Campus 11301 Wilshire Boulevard, Building 226 Los Angeles, California 90073

Those who cannot attend or who prefer to provide written comments, can submit comments no later than June 30, 2017:

Paper Mail Comments: VA Greater Los Angeles Healthcare System Attn: Environmental Impact Statement Program Manager 11301 Wilshire Blvd., Bldg. 500/Rm. 6409 Los Angeles, CA, 90073

Electronic Mail Comments: VHAGLAMaster-Plan@va.gov

For Additional Information: https://www.losangeles.va.gov/Master-Plan/

This scoping process complies with VA's procedures for preparing an EIS/EIR under the National Environmental Policy



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Page 3 of 3

\* Agency Commission not included

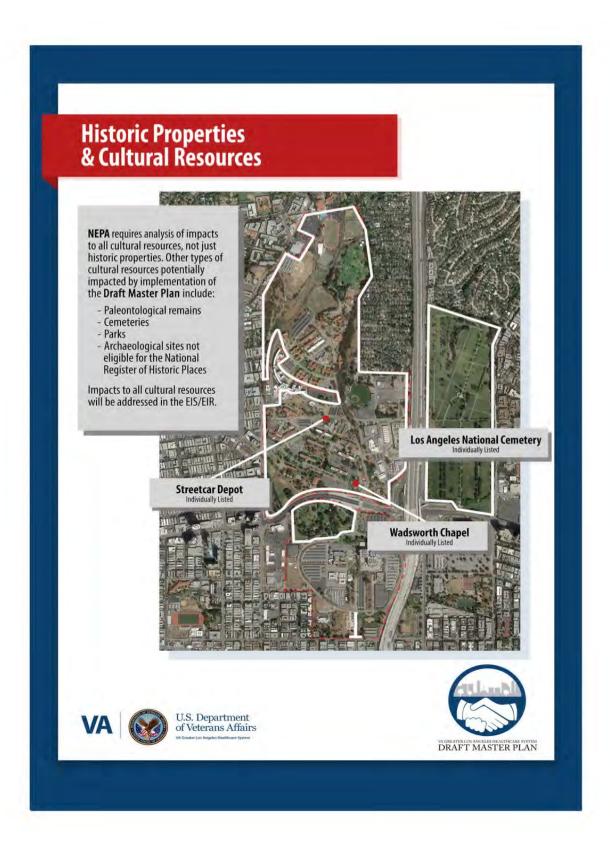
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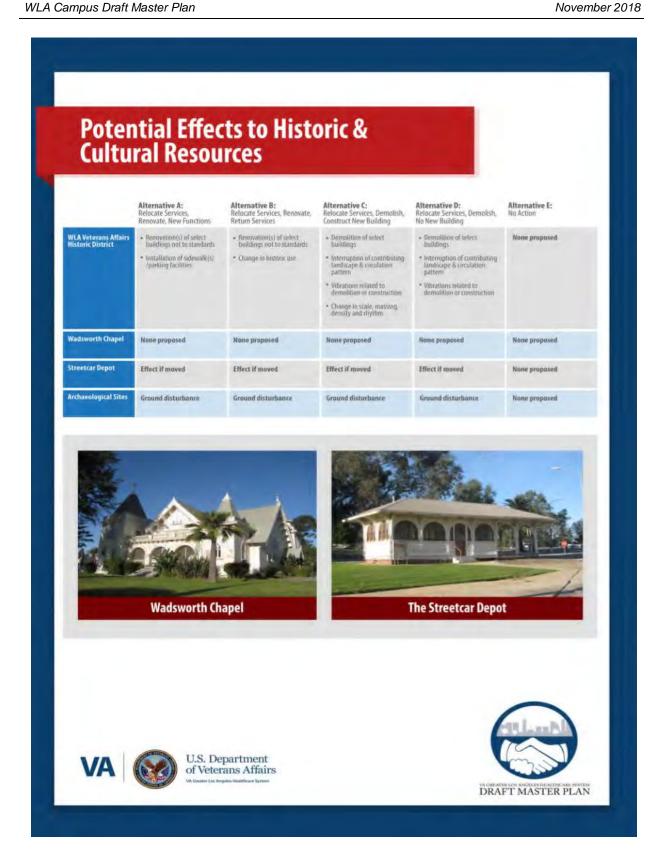
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PACKAGE NAME: Legal-Notices

Act and the California Environmental Quality Act.

### **SCOPING MEETING POSTERS**







# **Scoping Meetings**

Environmental Impact Statement (EIS) / Environmental Impact Report (EIR) of the West Los Angeles Campus – Draft Master Plan

Wednesday, June 7, 2017

5:00PM PDT -8:00PM PDT

Thursday, June 8, 2017

5:00PM FDT 8:00PM PDT

Friday, June 9, 2017

M:30AM PDT - 11:30AM PDT





## Introduction and Welcome

Scoping Meetings



### West Los Angeles Campus Draft Master Plan - EIS/EIR





### Purpose of Today's Meeting

- Announce the preparation of an Environmental Impact Statement (EIS) / Environmental Impact Report (EIR)
- ➤ Describe the Proposed Action
- ➤ Identify Alternatives
- ▶ Present EIS/EIR Timeline
- ➤ Solicit feedback, inquiries, and comments on environmental considerations related to the development of the EIS/EIR







### **Public Comments**

The community is encouraged to submit comments for consideration in the EIS/EIR. The public comment period will conclude on Tuesday, June 30, 2017.

>In-Person Comments: Public comments can be shared during the Scoping Meeting, either verbally or written comment card.

### Paper Mail Comments:

VA Greater Los Angeles Healthcare System Attn: West Los Angeles Campus EIS/EIR Program Manager 11301 Wilshire Blvd., Bldg. 500/Rm. 6409 Los Angeles, CA, 90073

> Electronic Mail Comments: VHAGLAMasterPlan@va.gov

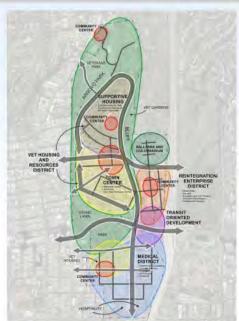


# West Los Angeles Campus Draft Master Plan - EIS/EIR Proposed Action Scoping Meetings



### **Proposed Action**

The proposed action is to evaluate and improve the existing Draft Master Plan in order to develop the most effective use of the West Los Angeles Campus for Veteran services, particularly for homeless Veterans, including underserved populations such as female Veterans, aging Veterans, and those who are severely physically disabled.





### West Los Angeles Campus Draft Master Plan - EIS/EIR





### Draft Master Plan -- Background & Context

- □ The Draft Master Plan was adopted by the Secretary of VA in January 2016 and supports the revitalization of the 388acre West Los Angeles Campus
- □ September 2016: The West Los Angeles Leasing Act of 2016 (Public Law 114-226) was enacted allowing Enhanced-Use Leases as the mechanism for VA to work with the private sector to provide permanent supportive housing on the West Los Angeles Campus

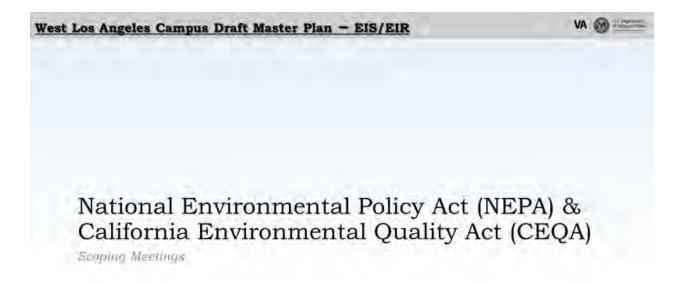
**Executive Orders** 

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### VA (S) Department of Veterane Afficient West Los Angeles Campus Draft Master Plan - EIS/EIR Enhanced-Use Leases (EUL) West Los Angeles Campus EULs ■ Building 209 □ An Enhanced-Use Lease (EUL) is a partnership with Buildings 205 & 208 the community to provide MacArthur Field (proposed) housing to Veterans and Buildings 156, 157, & 158 (proposed) families □ As part of the EUL process, and prior to execution of any EUL, VA is required to comply with applicable laws and



# West Los Angeles Campus Draft Master Plan — EIS/EIR Healthcare & Research Enhanced Main Hospital Diagnostic & Treatment Facilities Acute Care Ambulatory Outpatient Care & Clinics Centralized Research Hospitality for Visitors & Patients



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### National Environmental Policy Act (NEPA) -- Background

- ☐ The National Environmental Policy Act (NEPA) of 1969 requires Federal agencies to undertake an assessment of the environmental effects of their proposed actions prior to making decisions
- □ NEPA is an "umbrella" law for the integrated compliance with other environmental laws to comprehensively evaluate a proposed action's potential impacts
- □ VA's compliance with NEPA will include preparation of an EIS/EIR that will be made available for public review and comment



### West Los Angeles Campus Draft Master Plan - EIS/EIR



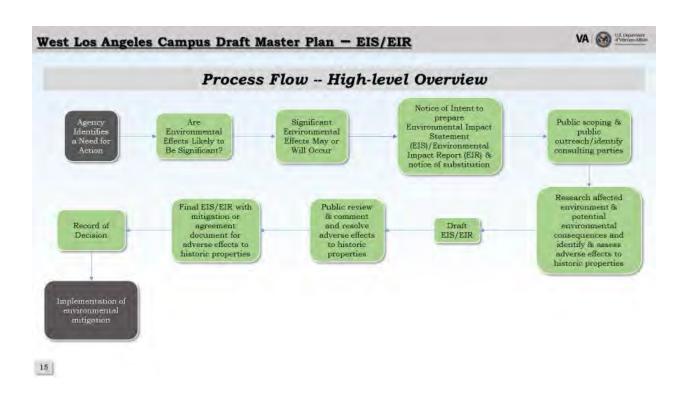


### California Environmental Quality Act (CEQA) - Background

- ☐ The California Environmental Quality Act (CEQA) is a California statute requiring state and local agencies to review a proposed project for significant environmental impacts and to identify measures to reduce these impacts where possible
- □CEQA is often conducted in parallel with NEPA document development
- UVA's compliance with CEQA will include preparation of a combined EIS/EIR that will be made available for public review and comment

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# National Environmental Policy Act (NEPA) -- Scoping □ Scoping is the first formal phase of the NEPA process □ Began with VA's Notice of Intent published in the Federal Register on May 19, 2017 □ Scoping is the best time to identify issues, determine points of contact, establish project schedules, and provide recommendations to VA □ Overall goal is to define the scope of issues to be addressed, in depth, in the analyses that will be included in the EIS/EIR □ Veterans, Veteran organizations, historic and cultural resource groups, affected Tribes, local and state government agencies, and the surrounding community are encouraged to participate.







### National Environmental Policy Act (NEPA) -- WLA Campus Update

- ☐ The Environmental Assessment (EA) for the Building 209 EUL has been finalized
- ☐ The EA for Buildings 205 & 208 EUL is moving forward
- ☐ The EA for the Columbarium Expansion Project has been finalized
- ☐ On May 19, 2017, VA issued its Notice of Intent regarding the West Los Angeles Campus Draft Master Plan EIS/EIR





### VA M 1/4 Hypermen West Los Angeles Campus Draft Master Plan - EIS/EIR National Environmental Policy Act (NEPA) - EIS/EIR ☐ The West Los Angeles Campus Draft Master Plan EIS/EIR will analyze various resource areas in depth, identifying both beneficial and detrimental NEPA effects of the proposed action: Aesthetics ☐ Floodplains, Wetlands & Coastal Zone Management Air Quality Clean Water Act Socioeconomics Historic and Cultural Resources Endangered Species Act Migratory Bird Treaty Act Baid and Golden Eagle Act National Historic Preservation Act ☐ Community Services Geology and Soils Research Conservation and American Indian Religious Recovery Act Freedom Act ☐ Solid Waste and Hazardous ☐ Hydrology and Water Quality Executive Orders on Environmental Justice Native American Graves Materials ☐ Wildlife and Habitat Floodplains and Wetlands laws Comprehensive Environmental Response, Compensation, and Transportation Traffic, and Parking Liability Act Noise State and Local land use ☐ Utilities Land Use ☐ Environmental Justice 17

# Proposed Alternatives Alternative A: Relocation of any existing tenants and services to another existing building, complete renovation and retrofit of the existing building or buildings for a new function and service provider; Alternative B: Relocation of any existing tenants and services to another existing building or buildings, complete renovation and retrofit of the existing building or buildings, and relocation of tenants back to the newly completed renovation; Alternative C: Relocation of any existing tenants and services to another existing building or buildings, and the attendant complete demolition of former building or buildings, with construction of completely new building or buildings; Alternative D: Relocation of any existing tenants and services to another existing building or buildings, complete demolition of former buildings, with no replacement of the demolished building or buildings; Alternative E: Study of the impacts associated with the No Action or "status quo" alternative, as a basis for comparison to the action alternatives.







## National Historic Preservation Act (NHPA)

Scoping Meetings



### West Los Angeles Campus Draft Master Plan - EIS/EIR





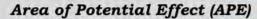
### National Historic Preservation Act (NHPA) & Substitution

- ☐ The National Historic Preservation Act (NHPA) of 1966 is our nation's most comprehensive piece of legislation related to the protection of historic properties
- ☐ Section 106 of the NHPA requires Federal agencies to consider the effects of undertakings they carry out, assist, fund, or permit on historic properties and to provide the Advisory Council on Historic Preservation (ACHP) a reasonable opportunity to comment on such undertakings
- ☐ In the interests of efficiency, completeness, and facilitating public involvement, it is VA's intention to fully incorporate the review procedures for historic properties into its NEPA analysis









- ☐ APE for this undertaking is the boundaries of the West Los Angeles Campus and the Los Angeles National Cemetery
- ☐ Historic properties within the APE include:
  - ☐ West Los Angeles Veterans Affairs Historic District, including the Los Angeles National Cemetery
  - ☐ The Wadsworth Chapel (Building #20)
  - ☐ The Streetcar Depot (Building #66)
  - ☐ Known Archaeological Deposits
  - ☐ Potential Archaeological Sites





### West Los Angeles Campus Draft Master Plan - EIS/EIR





### Historic Properties -- West Los Angeles Veterans Affairs Historic District

- The West Los Angeles VA Historic District was listed in the National Register of Historic Places (NRHP) in 2014
- ☐ Character-Defining Features:
  - ☐ Victorian; Shingle; Colonial, Mission, & Mediterranean Revival Style buildings
  - ☐ Cladding: Wood, Stucco, Concrete
  - ☐ Roofing: Terra Cotta Tile, Asphalt shingles
  - ☐ Circulation pattern of the North Campus & select landscapes included
  - ☐ Includes Los Angeles National Cemetery
  - ☐ Use as a Veterans facility





## West Los Angeles Campus Draft Master Plan - EIS/EIR





# Historic Properties -- Wadsworth Chapel (Building #20)

- ☐The Wadsworth Chapel, also known as the Catholic-Protestant Chapels, was individually listed in the NRHP in 1972
- □Character-Defining Features:
  - ☐ Dual sanctuaries
  - ☐ Dual entrances (gable)
  - ☐ Towers with pyramidal roofs
  - ☐ Arched portico
  - ☐ Listed as an example of Shingle architectural style





# West Los Angeles Campus Draft Master Plan - EIS/EIR







# Historic Properties -- Streetcar Depot (Building #66)

- ☐ The Streetcar Depot, also known as the News Stand or the Trolley Stop, was individually listed in the NRHP in 1972
- ☐ Character-Defining Features:
  - ☐ Arched windows
  - ☐ Wood siding
  - ☐ Brackets
- □Building has been moved previously and the roof materials have been changed





# West Los Angeles Campus Draft Master Plan - EIS/EIR



# Historic Properties -- Archaeological Sites

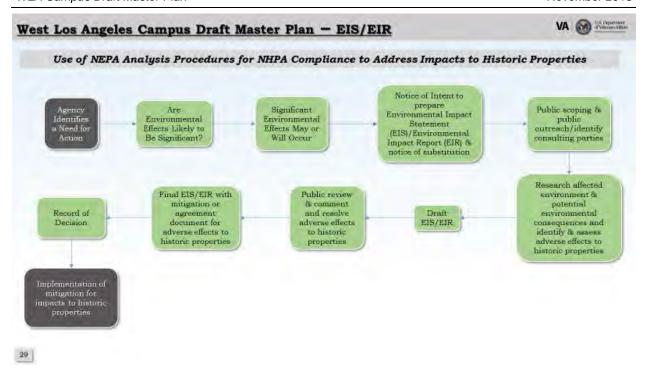
- □ Previous surveys on the West Los
   Angeles Campus have identified four
   (4) archaeological deposits
- ☐ The presence of deposits and the locations of other archaeological sites nearby suggest other deposits may be located within the campus boundaries.
- □VA will take into account the potential for archaeological sites as part of the EIS/EIR process

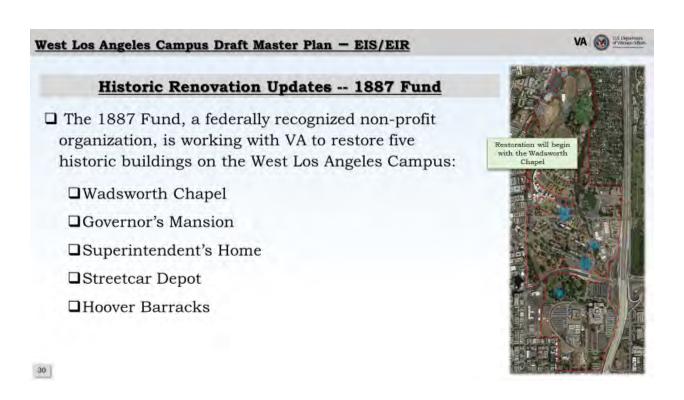


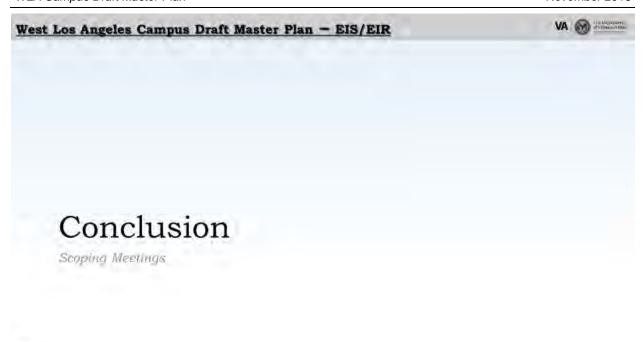


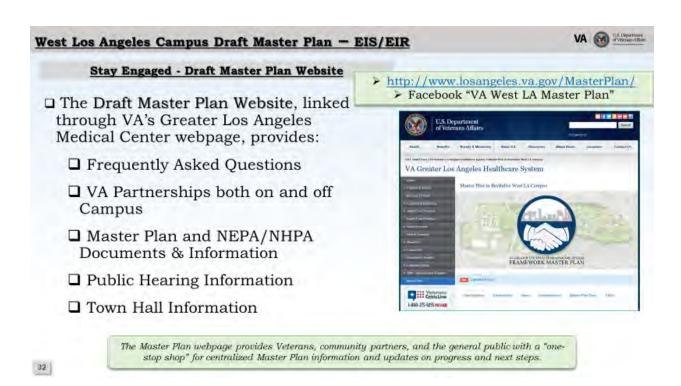
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Potential Effects to Historic & Cultural Resources					
	Alternative A: Relocate Services, Renovate, New Functions	Alternative B: Relocate Services, Renovate, Return Services	Alternative C: Relocate Services, Demolish, Construct New Building	Alternative D: Relocate Services, Demolish, No New Building	Alternative E No Action
WLA Veterans Affairs Historic District	Renovation s  of select buildings Installation of sidewalk(s)/parking facilities	Renovation(s) of select buildings Change in historic use	Demolition of select buildings  Interruption of contributing landscape & circulation pattern  Vibrations related to demolition or construction  Change in scale, massing, density, & rhythm	Demolition of select buildings Interruption of contributing landscape & circulation pattern Vibrations related to demolition or construction	None proposed
Wadsworth Chapel	None proposed	None proposed	None proposed	None proposed	None proposed
Streetcar Depot	Effect if moved	Effect if moved	Effect if moved	Effect if moved	None proposed
Archaeological Sites	Ground disturbance	Ground disturbance	Ground disturbance	Ground disturbance	None proposed









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# West Los Angeles Campus Draft Master Plan - EIS/EIR





# **Public Comments**

The community is encouraged to submit comments for consideration in the EIS/EIR. The public comment period will conclude on Tuesday, **June 30**, **2017**.

➤ In-Person Comments: Public comments can be shared during the Scoping Meeting, either verbally or written comment card.

# Paper Mail Comments:

VA Greater Los Angeles Healthcare System Attn: West Los Angeles Campus EIS/EIR Program Manager 11301 Wilshire Blvd., Bldg. 500/Rm. 6409 Los Angeles, CA, 90073

Electronic Mail Comments: VHAGLAMasterPlan@va.gov



# U.S. DEPARTMENT OF VETERANS AFFAIRS

PUBLIC SCOPING MEETING

ENVIRONMENTAL IMPACT STATEMENT/

ENVIRONMENTAL IMPACT REPORT

FOR WEST LOS ANGELES CAMPUS DRAFT MASTER PLAN

Wednesday, June 7, 2017 5:31 P.M.

Wadsworth Theater

VA West Los Angeles Campus

11301 Wilshire Boulevard

Building 226

Los Angeles, California 90073

### PARTICIPANTS

### PRESENTERS:

IAN MUSA, Concourse Federal Group

ANN BROWN, Greater Los Angeles Medical Center

GLENN ELLIOTT, NEPA

DOUGLAS PULAK, Department of Veterans Affairs

### PUBLIC PARTICIPANTS:

JACK GODWIN, Resident

DICK HELD, Resident and American Youth Soccer Organization representative

JUDIE HAWKMAN, Resident

RAY KLEIN

BARBARA SMITH, Brentwood Historical Society

KEITH FLEER

DAVID HOLTZMAN

ALSO PRESENT:

DEBBIE HELD, Resident and American Youth Soccer Organization

### PROCEEDINGS

MR. MUSA: Good evening, folks. I would ask everybody to please rise for the Pledge of Allegiance.

(Pledge of Allegiance.)

MR. MUSA: Thank you. Good evening, folks. My name is Ian Musa. I am the program manager here with Concourse Federal Group supporting the West Los Angeles team with the draft master plan.

In compliance with the National Environmental Policy Act, known as NEPA; and the California Environmental Quality Act, known as CEQA, the U.S. Department of Veterans Affairs, also known as VA, is holding scoping meetings for the West Los Angeles campus draft master plan environmental impact statement and environmental impact report. For this presentation, we will refer to the environmental impact statement and environmental impact report as an EIS. These scoping meetings are designed to inform the public about the proposed EIS, describe the proposed action, identify project alternatives, solicit comments on environmental considerations related to the development of the EIS, and present the project timeline.

The anticipated audience for this EIS includes veterans, veteran organizations, historic and cultural resource groups, local and state government agencies, and the surrounding community.

VA intends for these scoping meetings to be informative with a formal presentation followed by an open-forum comment period. We are hosting three scoping meetings over the course of three days with the intent of reaching the broadest audience. Each scoping meeting will follow the same format and contain identical content with the exception of public comments.

For those of you interested in providing a verbal comment, please ensure you obtained a ticket from the welcome table. The tickets designate the sequencing for providing verbal comments. The exhibit area located in the atrium when you first walked in includes posters where attendees can review information regarding the West Los Angeles draft master plan EIS. Additionally, this area hosts subject-matter experts from the Veterans Benefit Administration, Community Employment and Reintegration Services, as well as others. Please make your way to those tables for any questions or comments not relating to the draft master plan EIS.

For individuals who prefer to submit comments written, we have set up a designated comment area in the atrium. Please head there at any time during the presentation and fill out a comment card.

Following a brief presentation, this meeting will conclude with an open comment period where attendees can provide verbal comment on considerations for the EIS in front of other community members.

The community is encouraged to submit comments for consideration in the EIS. The public comment period for scoping will conclude on Tuesday, June 30th, 2017. Comments can be provided in several ways. Public comments can be shared during the scoping meeting, either verbally or via a written comment card. Paper mail comments can be mailed to the address on the screen or you can email your comments to vhaglamasterplan@va.gov. Comments cards are available in the welcome and exhibit areas and contain the mailing address as well as the email address for submitting comments.

The information provided on the screen will also be posted on the draft master plan website. Along those same lines, if you are interested in learning more about the draft master plan, please visit the project website at www.losangeles.va.gov/masterplan.

All scoping comments will be incorporated into a summary scoping report for review, evaluation, and consideration by VA. All comments, whether received once or in duplicate via email, letter, or in person, will receive the same level of review, evaluation, and consideration.

Before we dive into the content of the presentation, I would like to review a few administrative items. These scoping meetings are intended to inform the public and create a forum for receiving comments. As such, intimidating or disruptive behavior will not be tolerated. We request that all participants show respect to fellow attendees and speakers, especially during verbal comment periods and the presentation. We anticipate a large number of verbal comments from our audience during the open forum and will be limiting attendees to a three-minute timeframe.

Speakers will be chosen by a lottery drawing method. This method will determine the order of comments and provide an unbiased selection of speakers.

At this time, I would like to introduce our next speaker, Ms. Ann Brown.

MS. BROWN: He didn't put it low enough. I missed the dress rehearsal. So I don't know how this works. And I have never been on this stage other than running across it. So hi, y'all.

(Laughter.)

MS. BROWN: This is big.

So, as Ian said, we are going to be doing this three times. And so those of you all that have been to these meetings in this before, you know I just kind of walk around and talk. But I have been told I have a script and I must stick to the script so the same thing is said all three times. So I will give it my best.

So I am Ann Brown. I am the medical center director here at GLA. And I appreciate everyone coming out to give input into what we are doing here. Now I will go to the script. Hold on. Yep. This one? So we want to provide -- proposed actions. We want to provide veteran housing and enhanced services as soon as possible. This is the largest VA campus with the largest veteran homeless population. This is a unique situation that requires unique solutions. VA is methodically evaluating the draft master plan while fulfilling historical and environmental due diligence, as required by state and federal laws. Despite some criticism that VA is not moving fast enough, significant progress has been made. Today marks a milestone in working through these processes. And we welcome your comments as they relate to the master plan.

The proposed action is to evaluate and improve the existing draft master plan in order to develop the most effective use of the West Los Angeles campus for veterans services, particularly for homeless veterans, including underserved populations, such as female veterans, aging veterans, and those who are severely physically disabled.

Primary considerations for evaluating the existing draft master plan are the provision of appropriate levels of supportive housing on the campus and renovated existing buildings or newly constructed facilities; respect for individual veteran choices on whether to seek housing at the West L.A. campus or in the local community; the need for appropriate level of bridges and emergency housing, along with short-term treatment services on the campus to provide state-of-the-art primary care, mental health, and addiction services to veterans, particularly those who are chronically homeless; and the expansion of the main hospital and healthcare facilities on the campus, including new research laboratories and graduated-care facilities for aging veterans.

The West Los Angeles draft master plan adopted by the Secretary of VA in January 2016 supports the revitalization of the 388-acre West Los Angeles campus. This revitalization includes 1,200 units of permanent supportive housing; services providing health, vocational training, recreation, and family; rehabilitation of historic structures; town center and amphitheatre; and patient-care enhancements. In September 2016, the West Los Angeles Leasing Act of 2016, or Public Law 114-226, was enacted, allowing enhanced-use leases as the mechanisms for VA to work with the private sector to provide permanent supportive housing on the West Los Angeles campus.

At this time, I would like to provide some additional information on the enhanced-use program with specific focus on the West Los Angeles campus.

An enhanced-use lease, or an EUL, is a partnership with the community to provide housing to veterans and families. Before VA can engage in these partnerships, we must first identify vacant and underutilized land and/or buildings that can be leased out.

Within the EUL partnership, the non-VA entity finances, develops, renovates, and/or constructs and operates the housing facilities and is responsible for the cost of development and the operations. VA then refers veterans for the enhanced-use lease housing and monitors housing operations.

Currently, the West Los Angeles campus has several EULs either underway or proposed, as illustrated in the displayed map, those areas right in there. Currently, the West Los Angeles -- wait. Yep. Sorry. These include an existing EUL for building 209 -- that is the purple area -- buildings 205 and 208, that blue area; and proposed EULs for MacArthur Field, the yellow area; and buildings 156, 157, and 158, the green area.

I know how to use the clicker. Okay, guys. Wake up out there.

(Laughter.)

MS. BROWN: All right. Displayed on the screen is the anticipated phasing timeline for implementation of new permanent supportive housing on the West Los Angeles campus for homeless veterans. I would like to highlight the primary components of the initial phase of development. Beginning with the 12-month section, the building 209 EUL was awarded in January 2017 and will provide 54 units of permanent supportive housing to chronically homeless veterans. The 54 veterans have been identified and are scheduled to move into building 209 this week.

Continuing in the 24- to 30-month section, the EUL solicitation for buildings 205 and 208 was issued in March 2017. Proposed responses were due in early May and are currently under review. The EUL will provide approximately 100 units of permanent supportive housing to veterans.

Finally, closing out the initial phase of development with the 30- to 48-month section. New construction on MacArthur Field is anticipated to commence following the EIS. This new EUL construction will provide approximately 150 units of permanent supportive housing, to include designated units for female veterans with dependents. Additionally, within the same section, the EUL for buildings 156, 157, and 158 is anticipated to commence following the EIS. This EUL will provide approximately 180 units of permanent supportive housing to chronically homeless veterans.

Following the initial phase development and upon completion of the EIS, VA will enter the midterm and future development phases, which intend to provide approximately 720 additional units of permanent supportive housing for chronically homeless veterans on the West Los Angeles campus. This timeline is conceptual and will be periodically updated and evaluated based on future analysis of the housing demand in the greater Los Angeles area.

Within this phasing timeline for development of permanent supportive housing, two primary contingencies have been identified and will continue to be monitored by our team. The first involves the necessary due diligence to address utility infrastructure issues, environmental and historic preservation analysis. And the second involves the developer's ability to expediently obtain local zoning, permit approvals, and non-VA capital funding from various sources.

As mentioned earlier, one of the primary considerations of the proposed action is the expansion of the main hospital and healthcare facilities on the campus, including new research laboratories and graduated-care facilities for aging veterans.

Contemplated improvements include the main hospital building, acute care, ambulatory outpatient care and clinics, centralized research facilities, hospitality for visitors and patients, diagnostic and treatment facilities, and clinical support and services, and a modern state-of-the-art healing environment.

Additional enhancements to healthcare will focus on providing a collaborative integration of healthcare, food service, and comprehensive translational research in support of veterans.

So how did that go?

(Applause.)

MS. BROWN: Yes. I am not looking for applause but making sure everybody is awake.

So at this time, the Red Sox fan is coming to the stage. Oh, no. Wait. Sorry. I went off script.

(Laughter.)

MS. BROWN: At this time, I would like to introduce our next speaker, Mr. Glenn Elliott. Go, Cubs!

MR. ELLIOTT: What is that, a little fuzzy bear?

Good evening, everybody. My name is Glenn Elliott. I am the NEPA implementation officer for VA. Everybody hear me okay? Okay.

The National Environmental Policy Act of 1969 requires federal agencies to undertake an assessment of the environmental effects on their proposed actions prior to making decisions. Two major purposes of this environmental-review process are better informed decisions and the citizen involvement. NEPA -- I am getting a little feedback here.

MS. BROWN: Phone?

 $$\operatorname{MR}.$$  ELLIOTT: No. Phones are down there. It must be the Red Sox thing.

MS. BROWN: It is personality.

 $$\operatorname{MR}.$$  ELLIOTT: Oh, it is personality? Thanks. It is rough up here.

NEPA is often referred to as the umbrella law as it encourages integrated compliance with other environmental laws to comprehensively evaluate a proposed action's potential impacts.

NEPA documents review and analyze a myriad of environmental laws at the federal, state, and local level to determine potential impacts from proposed actions and alternatives. VA's compliance with NEPA for the West Los Angeles campus draft master plan will include preparation of an EIS that will be made available for public review and comment. Preparation of an EIS meets the compliance requirements of NEPA.

CEQA background. Similar to NEPA, the California Environmental Quality Act, or CEQA, is a California-specific statute that requires state and local agencies to identify significant

environmental impacts of a proposed action and to avoid or mitigate these potential impacts where possible. CEQA is often conducted in parallel with NEPA documents to develop as they have similar objectives to identify potential environmental impacts and public-review timeframes.

CEQA is a state requirement. In cooperation with state partners, we will ensure that all CEQA regulations/requirements are compiled through our NEPA process. Preparation of an EIR meets the compliance requirements of CEQA. VA is preparing a combined EIS and EIR for efficiency. As I move forward, when we talk about EIS, we are talking about both documents enjoined.

NEPA scoping. Scoping is the first formal phase of the NEPA process. Federal agencies are required to provide an early and open process for public assistance in determining the scope of the issues to be covered in the EIS. The scoping process began with our notice of intent, which was published in the Federal Register on May 19th, 2017 and contains our intent to prepare the West Los Angeles campus master plan EIS. The scoping process is the best time to identify issues, determine points of contact, establish project schedules, and provide recommendations to VA. The overall goal is to define the scope of the issues to be addressed in depth in the analysis that will be included in the EIS. Specifically, scoping will identify people or organizations who are interested in the proposed action, identify significant issues to be analyzed in depth in the EIS and issues to eliminate, identify issues that have been adequately covered in prior environmental reviews, determine the roles and responsibilities of lead and cooperating agencies, identify any related NEPA documents, and identify gaps in data informational needs. It is also to identify any other environmental review and consultation requirements so they can be integrated with the EIS; and, lastly, to indicate the relationship between the development of the environmental analysis and VA's tentative decision-making schedule. Veterans, veteran organizations, historic and cultural groups, the affected tribes, local and state government agencies, and the surrounding communities are encouraged to participate.

Process flow. This is a high-level overview. Displayed on the screen is the process flowchart for providing a high-level outline of the NEPA process, including the use of NEPA analysis procedures for the National Historic Preservation Act, or NHPA, to address the impacts to historic properties.

I will focus primarily on the NEPA portion at this time, but Doug Pulak, VA's deputy historic preservation officer, will

review the same flowchart later in the presentation when discussing NHPA.

The process began with the VA identified a need for action, which is the implementation of the West Los Angeles draft master plan. With the proposed action, VA assessed and determined that the significant environmental effects may occur if implemented. Following this identification, VA issued a notice of intent to prepare the EIS. And, again, that was what was released on May 19th.

As the first formal step in the process, VA is hosting today's meeting. After reviewing the scoping comments received this evening, VA will continue analysis reviews, consultations, and will prepare the draft EIS. The draft EIS will be made available for public review and comment. During this public-review period, the VA will hold a series of public meetings in open forums to solicit comments on the draft EIS.

Following a review of the draft EIS public comments, we will prepare a final EIS, including the responses and comments received on the draft EIS. The final EIS will be made available to the public. The NEPA process concludes with an issuance of the record of decision.

West L.A. campus update. At this time, I would like to provide several updates on NEPA documents for the West Los Angeles campus. The environmental assessment, or EA, for building 209 enhanced-use lease has been finalized. The EA for buildings 205 and 208 EUL are already moving forward. Additionally, the EA for the Columbarium expansion project on the North Campus has been finalized. This will allow the Columbarium expansion project, which will provide up to 90,000 niches for veterans and their dependents, to commence outside the EIS process. As mentioned on the previous slide, on May 19th, the VA issued its notice of intent regarding the West Los Angeles campus draft master plan EIS.

Resource areas. The West Los Angeles campus master plan EIS will analyze various resource areas in depth, identifying both beneficial and detrimental effects of the proposed action. As mentioned earlier, NEPA is an umbrella law for the integrated compliance with other environmental laws to comprehensively evaluate a proposed action of the potential impacts. The list displayed on the screen, all of these, outlines the resource areas under review, to include the concerns raised by the community, such as traffic, noise, and utilities.

Proposed alternatives. Identifying and considering and analyzing alternatives are key components of the NEPA process for decision-making. A range of practicable and reasonable alternatives will be considered for this EIS. The proposed action would involve multiple, concurrent, and/or subsequent projects to be executed.

Concurrently, the VA has identified several potential action alternatives for analysis in the EIS for each grouping. As you review the alternatives, each includes relocation of tenants and services to another existing building. The differences between alternatives A through D are alternative A renovates and retrofits existing buildings for a new function, alternative B renovates and retrofits existing buildings to relocate tenants back into those spaces, alternative C demolishes the former building and constructs new buildings, alternative D demolishes the former buildings with no replacement buildings. Alternative E is the no-action or status-quo alternative as a basis for comparison of the action alternatives.

Pursuant to NEPA, an agency's preferred alternative is the alternative that the agency believes would fulfill the purpose and need of the proposed actions considering economic, environmental, technical, and other factors.

At this time, we have not identified a preferred alternative. However, the VA will be conducting numerous surveys and studies to inform the analysis for the EIS. From this, the VA will identify a preferred alternative that will be included in the draft EIS.

Anticipated timeline. Preparing an EIS for the West Los Angeles campus draft master plan will take time to complete. While we concurrently anticipate 24-month timeline to completion, we are actively pursuing opportunities to expedite this process. In the coming year, the VA will conduct various supplemental and supporting environmental studies and analysis. The VA will then prepare a draft EIS, which will be available for public review and comment by the end of 2018. VA will host public meetings on the draft EIS, to include a 60-day comment period.

At this point in time, I would like to introduce the next speaker: Mr. Doug Pulak.

MR. PULAK: Good evening. I am Doug Pulak. I am the deputy federal preservation officer for the Department of Veterans Affairs.

One aspect of NEPA that requires analysis is the potential impacts to all types of cultural resources. Cultural resources are historic properties; paleontological remains;

The National Historic Preservation Act of 1966, or NHPA, protects our nation's historic properties. An historic property could include a prehistoric or historic district, site, building, structure, or object included in or eligible for inclusion in the National Register of Historic Places overseen by the National Park Service.

Section 106 of the NHPA requires federal agencies to consider how undertakings that they carry out, assist, fund, or permit affect historic properties and provide the Advisory Council on Historic Preservation, or ACHP, a reasonable opportunity to comment on such undertakings. An undertaking is an action or project. In this case, the undertaking is the implementation of the West Los Angeles campus draft master plan. The goal of the section 106 process is to identify and consider historic properties that might be affected by an undertaking and to attempt to resolve any adverse effects through consultation. The section 106 process provides for participation by the State Historic Preservation Office, or SHPO; the ACHP; Native American tribes; representatives from local governments; interested organizations; and private individuals. This consultation effort will continue throughout the development of the EIS.

Section 106 requires federal agencies to seek ways to avoid, minimize, or mitigate the effects of their actions on historic properties, but it does not require the federal agency, in this case VA, to choose the alternative least likely to affect historic resources. In the interest of efficiency, completeness, and facilitating public involvement, it is VA's intention to fully incorporate the review procedures for historic properties through substitution of its NEPA analysis. This EIS process will include consideration of NHPA issues, specifically the definition of the undertaking, being the implementation of the draft master plan; the definition of the area of potential effect and identification of historic properties; and the definition of the potential effects of the undertaking.

The area of potential effect, or APE, for this undertaking is the entire VA site, including the West Los Angeles campus and the Los Angeles National Cemetery. So that is indicated in red as the area of potential effect. The draft master plan does not include any off-campus construction. And none of the possible

construction exceeds current campus building heights. There are no plans for construction activities on the grounds of the Los Angeles National Cemetery as part of the draft master plan, but there could be circulation impacts that need to be analyzed.

Historic properties within the APE include the Wadsworth Chapel; the Streetcar Depot; known archeological deposits; potential archaeological sites; and the West Los Angeles VA Historic District, including the Los Angeles National Cemetery.

The West Los Angeles VA Historic District listed in the National Register of Historic Places, or the National Register, in 2014 is shown in yellow and most likely to be affected by the undertaking. The historic district includes many of the campus buildings but not all and includes some of the landscape elements and portions of the circulation pattern of the North Campus. Some of the historic district's character-defining features include Victorian, shingle, Colonial, mission, and Mediterranean revival-style buildings.

The Wadsworth Chapel, also known as the Catholic-Protestant chapels, was listed in the National Register in 1972 and is a contributing element to the historic district. Several of the Wadsworth Chapel's character-defining features include its dual sanctuaries and entrances and arch portico. And it is a notable example of the shingle architectural style.

Building 66 has several names, including the Streetcar Depot, News Stand, or the Trolley Stop. This building was listed in the National Register in 1972 and is a contributing element to the historic district. The Streetcar Depot's character-defining features include its arched windows, wood columns, and vertical board cladding. The draft master plan does contemplate moving this building.

Previous surveys of the West Los Angeles campus have identified four archeological deposits. The presence of deposits and the location of other archeological sites nearby suggest that more deposits may be located within the campus boundaries. It will take into account the potential for archeological sites as part of the EIS with plans developed in consultation with the SHPO, the ACHP, Native American tribes, and other consulting parties.

This table identifies the five alternatives, A through E across the top, and potential effects to historic and cultural resources by historic properties that have been identified. Each alternative has a variety of potential effects identified. VA is seeking comment on these or any other potential effect to cultural

You have seen this one before. This is the process flowchart that Glenn covered earlier. We wanted to show the chart again to provide specific focus on the use of NEPA analysis procedures for NHPA to address impacts to historic properties. As mentioned, the process began with the proposed action to implement the West Los Angeles draft master plan and the assessment by VA that significant environmental effects may occur. Following this identification, VA issued a notice of intent to prepare the EIS. Additionally, VA issued a notice of substitution under the NHPA. So we have done all of this, and we are currently here.

We are currently conducting scoping meetings and have already begun public outreach to identify consulting parties with an interest in historic preservation. After reviewing the scoping comments, VA will continue to research and study the affected area, including verification of cultural resources, and will identify and assess adverse effects to historic properties. Following these analyses, reviews, and consultations, VA will develop the draft EIS. The draft EIS will be made available for public review and comment. And during this public review period, VA will work to resolve any adverse effects to historic properties through consultation. Following a review of those public comments, VA will prepare a final EIS, which will contain the mitigation or agreement document for any adverse effects to historic properties. The final EIS will be made available to the public. As Glenn noted, the NEPA process concludes with issuance of the record of decision.

VA is pleased to be partnering with the 1887 Fund, a federally recognized nonprofit organization, to restore five historic buildings on the West Los Angeles campus: the Wadsworth Chapel, governor's mansion, superintendent's home, the Streetcar Depot, and Hoover Barracks.

Now I would like to turn the podium back to Mr. Ian Musa.

MR. MUSA: Thanks, Doug.

Good evening, folks. Again, I am Ian Musa, a program manager with Concourse Federal Group, supporting the West Los Angeles team with the draft master plan.

VA will be updating the draft master plan website linked through VA's Greater Los Angeles Medical Center webpage to provide frequently asked questions; VA partnerships, both on and off campus; master plan; and NEPA, NHPA documents and information; public

hearing information; and town hall information. The draft master plan website provides veterans, community partners, and the general public with a one-stop shop for centralized draft master plan information, updates on progress, and next steps.

For scoping, VA encourages the community to submit public comments on considerations for the development of the draft EIS. A reminder that the public comment period will conclude on June 30th, 2017. As mentioned earlier, you can submit public comments a few different ways: in-person comments. You can make public comments tonight in the scoping meetings, either verbally or via written comment card. You can mail your comments to the address listed on the screen or you can email your comments to vhaglamasterplan@va.gov.

This concludes our formal presentation. At this time, participants are invited to provide comments on considerations for the draft EIS. Please note the following logistics. Time limit. In anticipation of a large number of verbal comments, VA will limit attendees to a three-minute timeframe. Lottery system. Speakers will be chosen by a lottery drawing method, which determines the order of comments to provide an unbiased selection of speakers. Name. Before making a public comment, we ask that you please announce your name. Finally, as a reminder, comments should be limited to those related to the EIS. Questions or comments relating to benefits, healthcare, or other issues should be addressed at the appropriate table located in the atrium.

PARTICIPANT: What if we have questions, as opposed to comments?

 $\ensuremath{\mathsf{MR}}.$   $\ensuremath{\mathsf{MUSA}}\xspace$  You are welcome to submit the questions as well.

The first number is A01. So if you would just stand up, we will bring a rover over to you with a mike. A01. No A01? All right. Next is J99. Awesome.

MR. GODWIN: All right. Thank you. I am Jack Godwin. I am a neighbor. I have lived about six blocks away for about 40 years. Let's see. Absolutely support all of the plans for veterans housing and the other plans that have been laid out, very positive about that. My main point tonight is very specific: traffic, traffic, traffic. So there must be a definitive traffic plan, analysis and plan. Hopefully what I would like to hear, the earliest that might be available for comment, the first version of a traffic analysis.

And then second point, we shouldn't be satisfied with a hopefully low increase in traffic, even with the housing that is planned to be great, to somehow target a lower level of traffic during busy times.

MR. MUSA: Thank you, sir.

I will look to Mr. Glenn Elliott.

MR. ELLIOTT: I understand your question is, when is it first available to take a look at the traffic analysis? So, just to be clear, we are performing a traffic analysis in the surrounding areas but also circulation on campus, to come up with the most efficient way to perform and just traffic running through the campus.

That said, right now under the contract, we are looking at the study being done in approximately 12 months. You will have a look at that at approximately 18 months, when we get to the draft master plan.

MR. GODWIN: That is nice.

MR. ELLIOTT: Okay.

MR. MUSA: Thank you, sir. Thanks, Glenn.

Next comment, A02. Right up front, Charles.

MR. HELD: Hello. My name is Dick Held. And I have lived here in Brentwood for 43 years. And I am a representative of AYSO soccer, American Youth Soccer Organization. AYSO soccer has used Veterans Park, formerly known as Barrington Park, for the past 33 years. I have seen my kids, who are now adults, and now I see my grandkids playing soccer there. We would like to continue using the park for AYSO soccer. AYSO is also a totally volunteer-run organization with over 1,000 kids playing soccer on any given Saturday in Brentwood or the Palisades.

By the way, is this something that is relevant to the discussion here?

 $\,$  MR. MUSA: I guess if you get a little further along, we will be able to make the determination.

MR. HELD: Okay. Okay. So, anyway, I was saying it is a totally volunteer-run organization and has open registration for all children. There are some other tenets of the organization: positive coaching, open registration. And my wife can add the other ones, too.

And my wife, by the way, Debbie Held, has been the register and regional commissioner for the past 35-40 years and has helped children have an activity in the Brentwood-Palisades area.

Children in the community need a voice, and they need a place to play and develop friendships and memories as they grow up. The traffic on Sunset from the Palisades to Brentwood, as this young gentleman said back here, is crazy. We are prisoners in our own homes. Don't take these fields away from the children of the community. They need a place to play.

Thank you.

MR. MUSA: Thank you, sir.

Next comment is A00, once more A00. So that exhausts the formal lottery-system comments that folks grabbed when they walked in. So at this point, I think we will open it up a little informally. If folks want to raise their hand, we have a rover. We will go ahead and continue with comments in that fashion. So I will pause here. If you have a question, please raise your hand. Right up front. Thanks, Charles.

MS. HAWKMAN: Hi. I am Judie Hawkman. I have been living in Brentwood for about 30 years. And I heard the following information. I would like to know if it is true or not true that there is radioactive material underneath this area that you are talking about and that it is in concrete. Okay? If that is true, then what is going to happen when they start to rebuild? How do they know where that radioactive material is/ And how will they stop it from escaping?

MR. MUSA: Thank you.

I will turn it over to Mr. Glenn Elliott.

MR. ELLIOTT: So there is low-level contamination in some of those areas. It is below the thresholds. That is set forth by EPA. One of the things is anything moving forward. And part of the studies that we are performing associated with the EIS is to look at those areas at what is available for activities that can happen there.

So your question about like what will be done or what could be done, everything will be done in accordance with EPA and cleanup regulations. So it is not like those areas will be disturbed haphazardly. It is going to be studied and analyzed as to the potential impacts of doing construction projects in those specific areas.

MR. MUSA: Thanks, Glenn. Thanks, Judie.

Next up? If anyone wants to raise their hand for a comment? Right to your right.

MR. KLEIN: Hi. Ray Klein. I am conflicted because, as much as I would like the housing for 205, '8, and '9 to move forward as fast as possible, I am wondering whether what we refer to as EAs, environmental assessments, for those buildings should not have been part of the environmental impact assessment and EIR and how they can be piecemealed out ahead of time because it seems that they will create some traffic. There will be additional staff. I am not concerned about the residents' traffic, but at least the staff and other support people will add to the traffic. How can those be -- well, they should be part of the traffic study as a whole, one.

Two, the other point is that the traffic study needs to be regional, not just within a half-mile of the VA. The traffic that has been complained about here before comes from Santa Monica. You need to look at the developments that are going on, a large one, down at Santa Monica, down at Olympic and Bundy, which will add over 7,000 trips. So your traffic engineer needs to look at the traffic generated on a regional basis from not just Archer School and Brentwood School nearby but everything out to the Palisades, into Santa Monica, the developments that are going on in Santa Monica, business developments, that send traffic through Brentwood to get to the 405, and look at it on a regional basis and analyze it that way.

MR. MUSA: Thanks, Ray.

I will look to Glenn for this one as well.

MR. ELLIOTT: So, Ray, as I understand it, it is a two-part, starting off with 205, 208, and your comment about breaking those out. The reason those are broken out is those are previous activities and construction projects prior to the master plan. So those are already moving along. So, rather than delay providing housing, as you said, you are conflicted, delay housing provided to the veteran, the homeless veterans, we decided to move those out separately and keep them on their own and keep their path moving along. So that is why those got pulled out.

As for the traffic, I appreciate the comment. And that is one thing that we will look at. We can look out more at a regional area and the influences associated with traffic and impacts associated on campus and the surrounding areas.

MR. MUSA: Thanks, Glenn. Thanks, Ray.

Additional comments? Christine, we will go to you.

MS. SMITH: Thank you.

I am Barbara Smith with the Brentwood Historical Society. We get a lot of questions regarding the VA and its history. And we are very interested in the historical preservation that you plan for the variety of buildings. I was wondering whether or not as part of this process, if there could be some kind of combination bus or walking tour that would show some of these historical sites and talk about them. We have been trying to do something for years, but we have had problems getting access to the VA to do such a project.

Thank you.

MR. MUSA: Thank you.

I will look to Doug.

MR. PULAK: Thank you.

We are welcoming ideas, suggestions for potential mitigation that might be required if there are adverse impacts to the historic property here. So that is a wonderful suggestion. Please, we have captured that, but we welcome additional idea that may be appropriate in telling the story of this campus and how it relates to the larger neighborhood. So we welcome those ideas. Thank you.

MR. MUSA: Thanks, Doug.

Additional comments? I think we have up front, Charles.

MR. FLEER: Thank you.

My name is Keith Fleer. I apologize for arriving late. So you may have already addressed this. Question is really I am one of many, many people who use the dog park up in Brentwood Park. What are your plans for that under the new program here?

MR. MUSA: So I can actually answer that separately as it relates to a leasing irrevocable license since we are in a separate agreement with the City of Los Angeles. So I would be happy to talk to you once we end the meeting or I can give you my information and provide that update. Yep. And we will keep it focused on EIS today.

MR. FLEER: Perfect.

MR. MUSA: Any additional comments? One more up front.

MS. HAWKMAN: You may have already discussed this because I missed the first half an hour as well. Do you have any plans for the buildings that are empty throughout the campus?

MR. MUSA: Sure. I will throw this one to Glenn.

MR. ELLIOTT: You may recall the slide that had the alternatives on it, the different slides. What we are looking at is building by building across the entire campus as to what their existing uses are, what is inside them now, the status of the building, and then looking at the alternatives for those buildings. So, actually, can you click to that?

PARTICIPANT: Sure.

MR. ELLIOTT: So what we have here is, as we were saying, there is the relocation of existing tenants and the services into another existing building. That is pretty much the standard for all of the alternatives that we are looking at right now. And these are our current alternatives. Alternatives will change as we further develop and start analyzing the campus, the use, the proposed activities, et cetera.

So then what we get into is there are differing levels of alternatives. So we have for a new function or service provider, we have buildings relocations, tenants back into that building. So once we renovate it, we bring them back in. Then there is demolition of the building, building a new, a completely new, building. And then there is just a straight-up demolition of the building with no new use proposed.

So there are differing alternatives that will happen. And that is part of the analysis of this. So when we are looking at each building individually, each project, so to speak, individually, it is, what are the alternatives? And that is how we formulate into a preferred alternative.

MR. MUSA: Thanks, Glenn.

Sir?

MR. HELD: Just to clarify, earlier did I hear that the traffic analysis and the study will not be available publicly for 18 months?

MR. MUSA: Glenn?

MR. ELLIOTT: I am sorry. I am getting whispered in my ear. Could I get that restated?

MR. HELD: Yes. I wanted to clarify what you said earlier. Is it true that the results of the traffic study, analysis, and the traffic plan will not be publicly accessible for 18 months from now? Is that true?

MR. ELLIOTT: It will be incorporated into the draft EIS. And that is the next opportunity for the public to comment. So that would actually be in the appendix. And that would be the traffic study and the analysis of circulation and recommendations. That would be incorporated into the draft EIS, which, yes, that is at 18 months.

MR. HELD: That is not acceptable from my standpoint. And I think almost anybody in the community would agree that is just --

MR. ELLIOTT: What I can offer you is we are and, as I stated before, we are looking at every opportunity we can to expedite this, but we have to go through methodically analyzing each step in the large process.

MR. MUSA: Thanks, Glenn.

Any additional comments? Right here.

 $$\operatorname{MR}.$$  HOLTZMAN: Good evening. My name is David Holtzman. I am a local resident.

A couple of things in the presentation surprised me. One was that something has already been adopted, this draft master plan has been adopted, by the Secretary of the VA. I just wanted to point out that any fiscal action taken like that may already be a violation of CEQA certainly and possibly NEPA. So you may have to start over at that point before there is any draft because establishing facts on the ground officially as government policy may be an attempt to influence the process you are talking about here and, therefore, would be in violation of NEPA and CEQA.

Another thing that surprised me is that there is a streetcar stop on the grounds. I did not know that. So the analyses should consider using the streetcar stop for a streetcar and all of the amenities that would provide, including mitigation of on-site and off-site traffic, if the streetcar could be used by off-site patrons, patrons from off site.

Streetcars and mass transit can help reduce the impacts of driving, including greenhouse gas emissions and pollution, pollutant emissions. So certainly the analyses should include comprehensive analyses of greenhouse gas from traffic, et cetera. And the analysis, therefore, should include consideration of providing parking sufficient for demand to feed the planned subway station on the VA grounds because that parking would take cars off the road and reduce greenhouse gases and other pollutant emissions, et cetera, noise, and traffic elsewhere in Los Angeles. The traffic

analysis should be extended out past all of the significantly affected intersections now and should not be limited to just the immediate vicinity of the project. The analysis should also include incoming risk analysis to the veterans and workers that you will be exposing to the risks to the air pollution that currently comes into the site and from the freeway nearby and even comes into the proposed housing sites from, say, the oil-drilling operation, which currently exists on your land that you permit, on your land.

MR. MUSA: Thank you, sir.

MR. HOLTZMAN: So --

MR. MUSA: You are coming right up against your --

MR. HOLTZMAN: Okay.

MR. MUSA: You have actually exceeded the three minutes. So I would invite you for any additional comments you want to submit, go ahead and recycle into it or make a written comment at the front.

MR. HOLTZMAN: Since I am not quite right there, my one last comment would be I was very surprised and disappointed --

MS. BROWN: You want to give everybody a chance.

MR. MUSA: Yes.

MR. HOLTZMAN: -- I think the presentation was inadequate because it only covered one of the areas of impact. There is no reason to give preference to the --

MR. MUSA: Thank you.

MR. HOLTZMAN: -- historic resources portion of the EIS.

MR. MUSA: Thank you, sir.

MS. BROWN: Sir.

MR. MUSA: Any additional comments? Question up front.

PARTICIPANT: If we made a verbal comment during this period, is it recorded or do we need to write it out also?

 $\,$  MR. MUSA: No. So any comment that was made during the, a verbal comment during this, comment period has been captured by the court reporter. Yes.

Last call for comments?

(No response.)

MR. MUSA: Terrific. Well, thank you very much for coming out. If you didn't get enough of this meeting, we are having

another one tomorrow, same format, same style, 5 p.m. to 8 p.m.; and then another one on Friday, 8:30 a.m. to 11:30. So we really appreciate everybody coming out. If you want to make additional comments if you think of something else, go ahead and do it on the way out. Mail it in to the address. You can grab a slip or email it to the email address that is available up front and on our website. So thanks, everybody. Have a great night.

(Whereupon, at 6:31 p.m., the meeting was adjourned.)

# U.S. DEPARTMENT OF VETERANS AFFAIRS PUBLIC SCOPING MEETING ENVIRONMENTAL IMPACT STATEMENT/ ENVIRONMENTAL IMPACT REPORT FOR WEST LOS ANGELES CAMPUS DRAFT MASTER PLAN

Thursday, June 8, 2017 5:25 P.M.

Wadsworth Theater

VA West Los Angeles Campus

11301 Wilshire Boulevard

Building 226

Los Angeles, California 90073

### PARTICIPANTS

### PRESENTERS:

IAN MUSA, Concourse Federal Group

ANN BROWN, Greater Los Angeles Medical Center

GLENN ELLIOTT, NEPA

DOUGLAS PULAK, Department of Veterans Affairs
PUBLIC PARTICIPANTS:

ALFRED AREYAN, Veteran

LAUREN COLE, Brentwood Community Council

MARCIE POLIER SWARTZ, Village for Vets

EVETTE KIM, Office of Senator Portantino

ALSO PRESENT:

JENNIFER TURCHIN, Village for Vets

PROCEEDINGS

MR. MUSA: I would ask everybody to please rise for a Pledge of Allegiance.

(Pledge of Allegiance.)

MR. MUSA: Thank you. Good evening, folks. Thanks for joining. My name is Ian Musa. I am the program manager with Concourse Federal Group, the team here supporting the West Los Angeles team in implementing the draft master plan.

In compliance with the National Environmental Policy Act, known as NEPA; and the California Environmental Quality Act, known as CEQA, the United States Department of Veterans Affairs, or VA, is holding scoping meetings for the West Los Angeles campus draft master plan environmental impact statement and environmental impact report. For this presentation, we will refer to the environmental impact statement and environmental impact report as an EIS. These scoping meetings are designed to inform the public about the proposed EIS, describe the proposed action, identify project alternatives, present the project timeline, and solicit comments on environmental considerations related to the development of an EIS. The anticipated audience for this EIS includes veterans, veteran service organizations, historic and cultural resource groups, local and state government agencies, and the surrounding community.

VA intends for these scoping meetings to be informative with a formal presentation followed by an open-forum public comment period. We are hosting three scoping meetings over three days with the intent of reaching the broadest audience. Each scoping meeting will follow the same format and contain identical content with the exception of public comments. Tonight's meeting is our second meeting.

For those of you interested in providing a verbal comment, please ensure you obtained a ticket from the welcome table when you walked in. The tickets designate the sequencing for providing verbal comments. The exhibit area located in the atrium when you first walked in includes posters where attendees can review information regarding the West Los Angeles draft master plan EIS. Additionally, this area hosts subject-matter experts from the Veterans Benefits Administration, Community Employment and Reintegration Services, and others. Please make your way to those tables for any questions or comments not relating to the draft master plan EIS.

For individuals who prefer to submit a written comment, we have set up a designated comment area in the atrium. Please head there at any time during the presentation and fill out a comment card.

Following a brief presentation, this meeting will conclude with an open-forum comment period where attendees can provide verbal comment on considerations for the EIS in front of other community members.

The community is encouraged to submit comments for consideration in the EIS. The public comment period for scoping will conclude on Tuesday, June 30th, 2017. Comments can be provided in several ways. Public comments can be shared during the scoping meeting, either verbally or via a written comment card. Paper mail comments can be mailed to the address on the screen or you can email your comments to vhaglamasterplan@va.gov. Comments cards are available in the exhibit area and contain the mailing address as well as the email address for submitting comments.

This information provided on the screen will also be posted on the West Los Angeles draft master plan website. Along those same lines, if you are interested in learning more information about the draft master plan, please visit the project website at www.losangeles.va.gov/masterplan.

All scoping comments will be incorporated into a summary scoping report for review, evaluation, and consideration by VA. All comments, whether received once or in duplicate via email, letter, or in person, will receive the same level of review, evaluation, and consideration.

Before we dive into the content of the presentation, I would like to review a few administrative items. These scoping meetings are intended to inform the public and create a forum for receiving comments. As such, intimidating or disruptive behavior will not be tolerated. We request that all participants show respect to fellow attendees and speakers, especially during the verbal comments and the presentation. We anticipate a large number of verbal comments from our audience during the open forum, and we will be limiting the comments to a three-minute timeframe.

Speakers will be chosen by a lottery drawing method. This method will determine the order of comments and provide an unbiased selection of speakers.

 $\,$  At this time, I would like to introduce our next speaker, Ms. Ann Brown.

MS. BROWN: If this is identical to last night, we will have to try this three times before this gets right. Only once today. We live and learn.

So thank you all for coming to our public scoping meeting so we can hear comments from the community about our draft master plan. And I have already gone off script. So I will get back on scrip.

Good evening. My name is Ann Brown. I am the medical center director here at GLA.

So we want to provide veteran housing and enhanced services as soon as possible here at GLA. This is the largest VA campus with the largest veteran homeless population. This is a unique situation that requires unique solutions. VA is methodically evaluating the draft master plan while fulfilling historical and environmental due diligence, as required by state and federal laws. Despite some criticism that VA is not moving fast enough, significant progress has been made. Today marks a milestone in working through these processes. And we welcome your comments as they relate to the master plan.

The proposed action is to evaluate and improve the existing draft master plan in order to develop the most effective use of the West Los Angeles campus for veterans services, particularly for homeless veterans, including underserved populations, such as female veterans, aging veterans, and those who are severely physically disabled.

Primary considerations for evaluating the existing draft master plan are the provision of appropriate levels of supportive housing on the campus and renovating existing buildings or newly constructed facilities; respect for individual veteran choices on whether to seek housing at the West L.A. campus or in the local community; the need for appropriate level of bridge and emergency housing, along with short-term treatment services on campus to provide the state-of-the-art primary care, mental health, and addiction service to veterans, particularly those who are chronically homeless; and the expansion of the main hospital and healthcare facilities on the campus, including new research laboratories and graduated-care facilities for aging veterans.

Next. The West Los Angeles draft master plan adopted by the Secretary of VA in January 2016 supports the revitalization of the 388-acre West Los Angeles campus. This revitalization includes 1,200 units of permanent supportive housing; services promoting health, vocational training, recreation, and family; rehabilitation of historic structures; a town center and amphitheater; and patient-care enhancements. In September 2016, the West Los Angeles Leasing Act of 2016, or Public Law 114-226, was enacted, allowing enhanced-use leases

as the mechanisms for VA to work with the private sector to provide permanent supportive housing on the West L.A. campus.

At this time, I would like to provide some additional information on the enhanced-use program with specific focus on the West L.A. campus.

An enhanced-use lease, or EUL, is a partnership with the community to provide housing for veterans and families. Before VA can engage in these partnerships, we must first identify -- I am going one behind. Thank you. I knew it didn't look right. Before VA can engage in these partnerships, we must first identify vacant or underutilized land and/or buildings that can be outleased.

Within the EUL partnership, the non-VA entity finances, develops, renovates, and/or constructs and operates the housing facilities and is responsible for the cost of development and operations. VA then refers veterans to the enhanced-use lease housing and monitors housing operations.

Currently, the West L.A. campus has several EULs either underway or proposed, as illustrated on the displayed map. These include the existing EUL for building 209, which is the purple area right there, purple for building 209; upcoming EULs for buildings 205 and 208, the blue area; and proposed EULs for MacArthur Field and buildings 156, 157, and 158. I gave you a peek sneak at that one earlier. Now we are here for real.

Displayed on the screen is the anticipated phasing timeline for implementation of new permanent supportive housing on the West Los Angeles campus for homeless veterans. I would like to highlight the primary components of the initial phase of development. Beginning with the 12-month section, building 209 EUL was awarded in January 2017 and will provide 54 units of permanent supportive housing to chronically homeless veterans. The 54 veterans have been identified and are scheduled to move into the building tomorrow. And tomorrow I get to say today. So that is not consistent. Okay, guys. It is late. Come on.

(Laughter.)

MS. BROWN: Continuing to the 24-30-month section, the EUL solicitation for buildings 205 and 208 was issued in March 2017. Proposed responses were due in early May and are currently under review. The EUL will provide an additional 100 units of permanent supporting housing to veterans.

And, finally, closing out the initial phase development with the 30- to 48-month section. New construction on MacArthur Field

is anticipated to commence following the EIS that we are here to talk about tonight. This new EUL construction will provide approximately 150 units of permanent supportive housing, to include designated units for female veterans with dependents. And, additionally, within this same section, the EUL for buildings 156, 157, and 158 is anticipated to commence following the EIS. And this EUL will provide approximately 180 units of permanent supportive housing for chronically homeless veterans.

Following the initial phase development and on completion of the EIS, VA will enter into midterm and future development phases, which intend to provide approximately 720 additional units of permanent supportive housing for chronically homeless veterans on the West Los Angeles campus. The timeline is conceptual and will be periodically updated and evaluated based on future analysis of the housing demand in the greater Los Angeles area.

Within this phasing timeline, the development of permanent supportive housing, two primary contingencies have been identified and will continue to be monitored by our team. The first involves the necessary due diligence to address utility infrastructure issues, environmental and historic preservation analysis. And the second involves the developer's ability to quickly obtain local zoning, permit approvals, and non-VA capital funding from various sources.

As mentioned earlier, one of the primary considerations of the proposed action is the expansion of the main hospital and healthcare facilities on the campus, including new research laboratories and graduated-care facilities for aging veterans.

Contemplated improvements include the main hospital building, acute care, ambulatory outpatient care and clinics, centralized research facilities, hospitality for visitors and patients, diagnostic and treatment facilities, and clinical support and services in a modern state-of-the-art healing environment.

Additional enhancements to healthcare will focus on providing a collaborative integration of healthcare, food service, and comprehensive translational research in support of veterans.

Thank you all for listening to me. And now I will introduce our next speaker, Mr. Glenn Elliott. And I will do the clicker for you so you don't get messed up.

MR. ELLIOTT: Thank you, ma'am.

MS. BROWN: You are welcome.

 $$\operatorname{MR}.$$  ELLIOTT: Always trying to steal my Red Sox stuff. Must be a fan.

(Laughter.)

MS. BROWN: I have never been a fan.

MR. ELLIOTT: Good evening, everybody. My name is Glenn Elliott. I am the NEPA implementation officer for VA.

NEPA. A little bit of background. The National Environmental Policy Act of 1969 requires federal agencies to undertake an assessment on environmental effects on the proposed actions to making decisions. Two major purposes of this environmental-review process are better informed decisions and citizen involvement. NEPA is often referred to as the umbrella law as it encourages integrated compliance with other environmental laws to comprehensively evaluate a proposed action's potential impacts.

NEPA documents, review, analyze a myriad of environmental laws at the state, federal, and local level to determine potential impacts for the proposed action and alternatives. VA's compliance with NEPA for the West Los Angeles draft master plan will include preparation of an EIS that will be made available for public review and comment. VA's compliance with NEPA for the West Los Angeles campus will end through the preparation of an EIS which meets the compliance and requirements of a NEPA document.

CEQA background. Similar to NEPA, the California Environmental Quality Act, or CEQA, is a California-specific statute that requires state and local agencies to identify significant environmental impacts of a proposed action and to avoid or mitigate these potential impacts where possible. CEQA is often conducted in parallel with NEPA documents to develop as they develop as they have similar objectives to identify potential environmental impacts and public-review timeframes.

CEQA is a state requirement. In cooperation with our state partners, we will ensure that all CEQA regulations and requirements are compiled through our NEPA process. Preparation of an EIR meets the compliance requirements of CEQA VA is preparing in a combined EIS-EIR for efficiency.

NEPA scoping. Scoping is the first formal phase in the NEPA process. Federal agencies are required to perform an early and open process for the public to assist in determining the scope of the issues to be covered in the EIS. The scoping process began with our notice of intent, which was published in the Federal Register on May 19th, 2017 and contains our intent to prepare the West Los Angeles campus draft master plan EIS. The scoping process is the best time to identify issues, determine points of contact, establish project schedules, and provide recommendations to VA. The overall goal is to

define the scope of the issues to be addressed in depth in the analysis that will be included in the EIS. Specifically, scoping will identify people or organizations who are interested in the proposed action, significant issues to be analyzed in depth in the EIS and issues to be eliminated, issues that have been adequately covered in prior environmental reviews, roles and responsibilities of lead and cooperating agencies, any related NEPA documents, gaps in data and informational needs; other environmental review and consultation requirements so they can be integrated with the EIS; and the relationship between the development of environmental analysis and the VA's tentative decision-making schedule. We encourage veterans, veteran organizations, historic and cultural resource groups, affected tribes, local and state government agencies, and the surrounding community to participate.

Process flow. This is a high-level overview. Displayed on the screen is the process flowchart for providing a high-level outline of the NEPA process, including the use of the NEPA analysis procedures for National Historic Preservation Act, or NHPA, to address the impacts to historic properties.

I will focus primarily on the NEPA portions at this time, but Doug Pulak, VA's deputy historic preservation officer, will review the same flowchart later in the presentation when discussing NHPA.

The process began when VA identified a need for action, which is the implementation of the West Los Angeles draft master plan. With the proposed action, VA assessed and determined that significant environmental effects may occur if implemented. Following identification, VA issued the notice of intent to prepare the EIS.

As a first formal step in the process, VA is hosting tonight's meeting. After reviewing the scoping comments, VA will continue analysis reviews, consultation, and will prepare a draft EIS. The draft EIS will be made available for public review and comment. During the public-review period, VA will host a series of public meetings in public open forums to solicit comments on the draft EIS.

Following a review of the draft EIS public comments, VA will prepare a final EIS, including responses to comments received on the draft EIS. Final EIS will be made available to the public. The NEPA process concludes with the issue of a record of decision.

West Los Angeles campus update. At this time, I would like to provide several updates on NEPA projects for the West Los Angeles campus. The environmental assessment for building 209 enhanced-use lease, or EUL, has been finalized. The EA for buildings 205 and 208 EUL is already moving forward. Additionally, the EA for the

Columbarium expansion project, which will provide approximately 90,000 niches for veterans and their dependents, has been finalized. This will allow the Columbarium expansion project, which will provide up to 90,000 niches for veterans and their dependents. As mentioned on the previous slide, on May 19th, 2017, VA issued its notice of intent regarding the West Los Angeles campus draft EIS.

Resource areas. The West Los Angeles campus draft master plan EIS will analyze various resource areas in depth, identifying both beneficial and detrimental effects of the proposed action. As mentioned earlier, NEPA is an umbrella law for integrated compliance and other environmental laws to comprehensively evaluate a proposed action's potential impacts. The list displayed on the screen outlines the resource areas under review, to include concerns raised by the community, such as traffic, noise, and utilities. Here is the list of the different topics and disciplines that will be identified in the EIS document. And there is our umbrella.

Proposed alternatives. Identifying, considering, and analyzing alternatives is a key component to the NEPA process for decision-making. A range of practicable and reasonable alternatives will be considered for this EIS. Proposed action would involve multiple, concurrent, and/or subsequent projects to be executed.

Currently, VA has identified several potential action alternatives for analysis in the EIS for each grouping. As you review the alternatives, each includes relocation of the tenants and services to another existing building. The differences between alternatives A through D are alternative A renovates and retrofits existing buildings for a new function, alternative B renovates and retrofits existing buildings to relocate tenants back into that space, alternative C demolishes the former building and constructs new buildings, alternative D demolishes the former buildings with no replacement buildings. Alternative E is the no-action or status-quo alternative as a basis for the comparison to the action alternatives.

Pursuant to NEPA, an agency's preferred alternative is the alternative that the agency believes would fulfill the purpose and need of the proposed actions considering the economic, environmental, technical, and other factors.

At this time, we have not identified a preferred alternative. However, VA will be conducting numerous surveys and studies to inform the analysis in the EIS. From this, VA will identify a preferred alternative that will be included in the draft EIS.

Anticipated timeline. Preparing an EIS for the West Los Angeles campus draft master plan will take time to complete. We currently anticipate 24-month timeline for completion. We are actively pursuing opportunities to expedite this process. In the up and coming year, VA will be conducting various supplemental and supporting environmental studies and analysis. VA will then prepare a draft EIS, which will be available for public review and comment by the end of 2018. VA will host public meetings on the draft EIS, to include a 60-day comment period.

At this point in time, I would like to introduce Doug Pulak.

MR. PULAK: Good evening. I am Doug Pulak. I am the deputy federal preservation officer for the Department of Veterans Affairs.

One aspect of NEPA that requires analysis is the potential impacts to cultural resources. Cultural resources are historic properties; paleontological remains; cemeteries, in this case the Los Angeles National Cemetery; parks; archeological sites; and sacred practices. This EIS will address all impacts to cultural resources evaluated in the draft master plan.

The National Historic Preservation Act of 1966, or NHPA, protects our nation's historic properties. An historic property could include a prehistoric or historic district, site, building, structure, or object included in or eligible for inclusion in the National Register of Historic Places overseen by the National Park Service.

Section 106 of the NHPA requires federal agencies to consider how undertakings that they carry out, assist, fund, or permit affect historic properties and to provide the Advisory Council on Historic Preservation, or ACHP, a reasonable opportunity to comment on such undertakings. An undertaking is an action or project. In this case, the undertaking is the implementation of the draft master plan. The goal of the section 106 process is to identify and consider historic properties that might be affected by an undertaking and to attempt to resolve any adverse effects through consultation. The section 106 process provides for participation by the State Historic Preservation Office, or SHPO; the ACHP; Native American tribes; representatives from local governments; interested organizations; and private individuals. This consultation effort will continue throughout the development of the EIS.

Section 106 requires federal agencies to seek ways to avoid, minimize, or mitigate the effects of their actions on historic properties, but it does not require the federal agency, in this case

VA, to choose the alternative least likely to affect historic resources. In the interest of efficiency, completeness, and facilitating public involvement, it is VA's intention to fully incorporate the review procedures for historic properties through substitution of its NEPA analysis. This EIS process will include consideration of NHPA issues, specifically the definition of the undertaking, being the implementation of the draft master plan; the definition of the area of potential effect and identification of historic properties; and the definition of the potential effects of the undertaking.

The area of potential effect, or APE, for this undertaking is the entire VA site, including the West Los Angeles campus and the Los Angeles National Cemetery. The draft master plan does not include any off-campus construction. And none of the possible construction exceeds current campus building heights. There are no plans for construction activities on the grounds of the Los Angeles National Cemetery as part of the draft master plan, but there could be circulation impacts that need to be analyzed.

Historic properties within the APE include the Wadsworth Chapel; the Streetcar Depot; known archeological deposits; potential archaeological sites; and the West Los Angeles VA Historic District, including the Los Angeles National Cemetery.

The West Los Angeles VA Historic District listed on the National Register of Historic Places, or the National Register, in 2014 is shown in yellow on this slide and the most likely property to be affected by the undertaking. The historic district includes many of the campus buildings but not all and includes some of the landscape elements and portions of the circulation pattern of the North Campus. Some of the historic district's character-defining features include Victorian, shingle, Colonial, mission, and Mediterranean revival-style buildings.

The Wadsworth Chapel, also known as the Catholic-Protestant chapels, was listed in the National Register in 1972 and is a contributing element to the historic district. Several of the Wadsworth Chapel's character-defining features include dual sanctuaries and entrances, an arch portico, and it is a notable example of the shingle architectural style.

Building 66 has several names, including the Streetcar Depot, News Stand, or the Trolley Stop. This building was also listed in the National Register in 1972 and is a contributing element to the historic district. The Streetcar Depot's character-defining features include its arched windows, wood columns, and vertical board cladding. The draft master plan does contemplate moving this building.

Previous surveys of the West Los Angeles campus have identified four archeological deposits. The presence of deposits and the location of other archeological sites nearby suggest that more deposits may be located within the campus boundaries. VA will take into account the potential for archeological sites as part of the EIS with plans developed in consultation with the SHPO, the ACHP, Native American tribes, and other consulting parties.

This table shows the five alternatives and identifies potential effects to historic and cultural resources resulting from each alternative. VA is seeking comment on these or any other potential effects to cultural resources that you might suggest. This table is available as a handout in the welcome area and will be posted on VA's draft master plan website.

The same process flowchart that Glenn covered earlier is shown again to provide specific focus on the use of NEPA analysis procedures for NHPA to address impacts to historic properties. VA issued the notice of intent to prepare an EIS and at the same time also issued a notice of substitution under the NHPA.

Along with scoping meetings, we began public outreach to identify consulting parties with an interest in historic preservation. Following analysis, reviews, and consultations, VA will develop a draft EIS that will identify and assess adverse effects to historic properties. The draft EIS will be made available for public review and comment. And VA will work to resolve any adverse effects to historic properties through consultation. Following consultation, VA will prepare a final EIS, which will contain the mitigation or agreement document for adverse effects to historic properties. The final EIS will be made available to the public. As Glenn noted, the NEPA process concludes with issuance of the record of decision.

VA is pleased to be partnering with the 1887 Fund, a federally recognized nonprofit organization, to restore five buildings on the West Los Angeles campus: the Wadsworth Chapel, the governor's mansion, the superintendent's home, the Streetcar Depot, and Hoover Barracks.

Now I would like to turn the podium back to Mr. Ian Musa.

MR. MUSA: Thanks, Doug.

Good evening, folks. Again, my name is Ian Musa. I will cover a few more slides, and then we will get into the comment period.

VA will be updating the draft master plan website linked through VA's Greater Los Angeles Medical Center webpage to provide frequently asked questions; VA partnerships, both on and off campus;

master plan; and NEPA, NHPA documents and information; public hearing information; and town hall information. The draft master plan webpage provides veterans, community partners, and the general public with a one-stop shop for centralized draft master plan information, updates on progress, and next steps.

For scoping, VA encourages the community to submit public comments on considerations for the development of the draft EIS. A reminder that the public comment period will conclude on June 30th, 2017. As mentioned earlier, public comments can be submitted several ways: in-person comments. Public comments can be shared during the scoping meetings, either verbally or via written comment card. You can mail your comments to the address listed on the screen or you can email your comments to vhaglamasterplan@va.gov.

This concludes our formal presentation. At this time, participants are invited to provide comments on consideration for the draft EIS. Please note the following logistics. Time limit. In anticipation of a large number of verbal comments, VA will limit attendees to a three-minute timeframe. Lottery system. Speakers will be chosen by a lottery drawing method, which determines the order of comments to provide an unbiased selection of speakers. Name. Before making a public comment, we ask that you please announce your name. Finally, as a reminder, comments should be limited to those related to the EIS. Questions or comments relating to benefits, healthcare, or other issues should be addressed at the appropriate table in the atrium.

Now we will begin the public comment period. A05. If you would just stand up if your ticket is called? A05. We have rovers that will bring a mike to you. A05?

MR. AREYAN: Yes, sir. Good evening. Thank you for this opportunity to share our thoughts about -- you know, as a veteran sharing and our input with what you guys are doing. I really appreciate that.

I wish there was more attendance. I don't know what happened, but I did get it through my phone, which was a text or email. And I am just happy that I got that because I believe it is very important that we all participate in sharing our thoughts about issues pertaining to this land here.

Again, the funding for the project I don't know. I haven't heard what the funding, a rough idea. Of course, we don't know the total amount, but I would like to know if that is discussed. And, again, 20-30 years is a long time, again better late than never. And I just want to know, is it going to be run by a government agency? Is

it going to be run by the VA? Is it going to be private donations or is it going to be where veterans continue to have input on what is going on in reference to the land here?

And, again, that is basically what I wanted to share with you. And, again, I just want to thank you for giving me an opportunity to speak my thoughts, even though I am not much of a writer. But I will say this. It is important we share our thoughts and participate as a veteran because we haven't had a voice in over 40 years. And I just want to thank you for this opportunity. And I hope we find another way to get the word out when you do have these master plan meetings. And hopefully we can get a better outcome in participation to listen to what you guys are doing.

Thank you.

MR. MUSA: Thank you, sir. Yes. We appreciate your comment. We have audio being recorded here. So we will definitely capture that. Very thankful for you addressing it here in this forum.

Next up is A07.

MS. COLE: Hi. I am Lauren Cole. I am the transportation chair to the Brentwood Community Council. I was not able to make the meeting that you had at the BCC the other night since I was out of town, but I did get some comments and feedback from people at the meeting.

We had previously put together a subcommittee on transportation issues just to work with the VA as you are developing the plan. So we look forward to being able to work with you.

The BCC members are fully supportive of any sort of housing and services needed by veterans. Our concern is obviously about the transportation issues. So we look forward to working with you to develop and to give input into any kind of transportation plan.

We will put together scoping comments based on -- we have done a number of other EIRs in the area. And so we have good ideas of what the usual traffic impacts are and some of the suggestions that had been made with other EIRs. Some of the specific things that we would like to be able to work with you on are exit gates to the extent that there are alternatives, things that won't impact the community during peak hours, any sort of plans that would help get workers' staggered shifts so that people aren't all arriving and leaving during peak hours and obviously plans that would encourage people that are working here to carpool to get here or take public transportation.

The other issue that I Know is a sensitive one but something that we are kind of looking ahead at is when the purple line

stop is here and during the period that there is a stop here and that there isn't one at Bundy, the one, the stop at Bundy, which is the next stop, is not yet funded. Although we would love to get it into measure ARD, it is not currently an identified stop, but as long as there is a purple-line terminus here, we need to figure out some way to work with you that people can actually access the stop without disrupting your community or our community with all of the traffic. I understand that there may be some challenges. We can't probably perhaps have parking on the grounds but some way that there would be parking nearby and allow people to access easily the grounds without disrupting. That includes not only people and cars, but also bicycle access is another thing that is a big issue since it is almost impossible to bike around Wilshire Boulevard. So anything that we can work with you guys on?

But those are the sorts of issues that we want to be able to address when we are able to sit down with our committee and you guys. So thank you for --

MR. MUSA: Thank you very much.

A04. A04? All right. A03. A03? A08. Presentation must have answered everything. A08? All right. A06.

MS. POLIER SWARTZ: Thank you.

Hi. My name is Marcie Polier Swartz. And I am president of Village for Vets, which is the neighborhood, the surrounding neighborhood, community support group for the West L.A. VA. And we have just launched a year ago January. This is our second year. And we are very proud of everything we have been doing. We are really building. We helped to volunteer today with the move-in. And I especially want to thank Jennifer Turchin, who just arrived, who supplied almost all of the move-in materials that were used today.

My comments are also I want to echo what Lauren said that we are just, our board and our group is, fully behind the plans of the VA. And we are so heartened and really moved by everything that has been going on with respect to the veterans that are here. We understand the pain and anguish that they have been feeling all these years. The community has also been feeling that. There is a lot of pent-up desire on the part of the community to step forward now. And we are just so happy that we have partners to work with and that we are being welcomed with open arms.

The comment I wanted to make is in regard to the Veterans Park. I know that there is still a little bit of misunderstanding and disappointment on the part of the community with regard to the plans for the Veterans Park.

And someone on our board has stepped forward with a dog program. She has previously trained dogs to wake up vets with PTSD before they have nightmarish episodes. And she has got a program that we are working on. And we hope to -- I am using this forum to just announce that because I, too, have just returned from a vacation, and I missed the BCC meeting. So we look forward to submitting that to you and possibly working together and finding a home for it, if not at Veterans Park then somewhere. And we have more programs like that coming.

Thanks.

MR. MUSA: Terrific. Thanks, Marcie.

That exhausts our lottery selection for questions. So at this time, we will open it up more broadly. So if you have a question, please raise your hand. And we will have a rover with a mike come out to you.

MR. AREYAN: I am sorry. I did forget to mention about the transitional housing and the percentage rate right now at the beginning of helping our veterans find a place to live. They are basically at 30 percent. And I think some of the property here that you are housing our veterans have even went up to 40 percent. Now, I am just thinking down the road with these new units that are coming into play. Is the percentage of the amount of money that they are going to be living in these quarters here going to go up to 50 percent or more down in the future? Because right now, you know, our veterans are living on a certain income and depending on their severity of injuries and the disability that they are receiving. So my question to you is, down the road, is it going to go higher than 50 percent? Because our veterans need money to buy other things. So I just hope you keep this into consideration.

Thank you.

MR. MUSA: Thank you.

Any additional comments? One back here, Charles.

MS. KIM: Hi. My name is Evette Kim from Senator Portantino's office. I have two questions. One, what kind of helps or needs do VA has for legislators? And my second question is, are there any veterans organizations or any nonprofit organizations that will be residing in the West Los Angeles campus?

MR. MUSA: Thank you. And I believe we can chat with you separately afterwards. If we will maintain focus on the EIS? But definitely interested in partnering with you and identifying areas of opportunity. So happy to chat with you after the meeting. Thank you.

Any additional comments? Last call. Comments? (No response.)

MR. MUSA: All right. Well, thanks, everybody. Really appreciate you coming out. If you are interested, we are going to do it again tomorrow at 8:30 a.m. So we would welcome you then as well. Otherwise have a great night.

(Whereupon, at 6:13 p.m., the meeting was adjourned.)

# U.S. DEPARTMENT OF VETERANS AFFAIRS PUBLIC SCOPING MEETING ENVIRONMENTAL IMPACT STATEMENT/ ENVIRONMENTAL IMPACT REPORT

Friday, June 9, 2017

8:56 a.m.

FOR WEST LOS ANGELES CAMPUS DRAFT MASTER PLAN

Wadsworth Theater

VA West Los Angeles Campus

11301 Wilshire Boulevard

Building 226

Los Angeles, California 90073

#### PARTICIPANTS

#### PRESENTERS:

IAN MUSA, Concourse Federal Group

ANN BROWN, Greater Los Angeles Medical Center

GLENN ELLIOTT, NEPA

DOUGLAS PULAK, Department of Veterans Affairs
PUBLIC PARTICIPANTS:

LAURA LAKE, Ph.D., Coalition for Veteran's Land BRUCE RANKIN, Westside Food Bank MARY K. PRINGLE, Resident

#### PROCEEDINGS

 $\,$  MR. MUSA: We will open with the Pledge of Allegiance. So please rise.

(Pledge of Allegiance.)

MR. MUSA: Thank you. Good morning, folks. My name is Ian Musa. I am the program manager with the Concourse Federal Group, here supporting the West Los Angeles team with the draft master plan.

In compliance with the National Environment Policy Act and the California Environmental Quality Act, the U.S. Department of Veterans Affairs, or VA, is holding scoping meetings for the West Los Angeles campus draft master plan environmental impact statement and environmental impact report. For this presentation, we will refer to the environmental impact statement and environmental impact report as an EIS. These scoping meetings are designed to inform the public about the proposed EIS, describe the proposed action, identify project alternatives, present the project timeline, and solicit comments on environmental considerations related to the development of the EIS. The anticipated audience for this EIS includes veterans, veteran organizations, historic and cultural resources, local and state government agencies, and the surrounding community.

VA intends for these scoping meetings to be informative with a formal presentation followed by an open-forum comment period. We are hosting three scoping meetings over the course of three days with the intent of reaching the broadest audience. Each scoping meeting will follow the same format and contain identical content with the exception of public comments. Our first meeting was held on Wednesday, June 7th. Our second meeting was held last night. And our third meeting is being held right now.

For those of you interested in providing verbal comments, please ensure you have obtained a ticket from the welcome table. These tickets designate the sequencing for providing verbal comments. The exhibit area located in the atrium when you first walked in includes posters where attendees can review information regarding the West Los Angeles campus draft master plan EIS. Additionally, this area hosts subject-matter experts from the Veterans Benefits Administration, Community Employment and Reintegration Services, as well as others. Please make your way to those tables for any questions or comments not relating to the EIS.

For individuals who prefer to submit a written comment, we have set up a designated comment area in the atrium. Please head there at any time during the presentation and fill out a comment card.

Following a brief presentation, this meeting will conclude with an open-forum comment period. Attendees can provide verbal

comment on considerations for the EIS in front of other community members.

The community is encouraged to submit comments for consideration in the EIS. The public comment period for scoping will conclude on Tuesday, June 30th, 2017. Comments can be provided in several ways. Public comments could be shared during the scoping meeting, either verbally or via a written comment card. Paper mail comments can be mailed to the address on the screen or you can email your comments to vhaglamasterplan@va.gov. Comments cards are available in the welcome area and contain the mailing address as well as the email address for submitting comments.

This information provided on the screen will also be posted on the West Los Angeles draft master plan website. Along those same lines, if you are interested in learning more about the draft master plan, please visit the project website at www.losangeles.va.gov/masterplan.

All scoping comments will be incorporated into a summary scoping report for review, evaluation, and consideration by VA. All comments, whether received once or in duplicate via email, letter, or in person, will receive the same level of review, evaluation, and consideration.

Before we dive into the content of the presentation, I would like to review a few administrative items. These scoping meetings are intended to inform the public and create a forum for receiving comments. As such, intimidating or disruptive behavior will not be tolerated. VA requests that all participants show respect to fellow attendees and speakers, especially during the verbal comments and the presentation. We anticipate a large number of verbal comments from our audience during the open-forum period and will be limiting attendees to a three-minute timeframe.

Speakers will be chosen by a lottery drawing method. This method will determine the order of comments and provide an unbiased selection of speakers.

At this time, I would like to introduce our next speaker, Ms. Ann Brown.

MS. BROWN: Okay. I see at least one person smiling out there. Thanks again. Just trying to lighten it up here. Yes. That is great.

Well, good morning.

PARTICIPANTS: Good morning.

MS. BROWN: I have to, first of all, tell you why I am dressed in loafers and Dockers: because today is move-in day. And we have been moving in this morning already. So yea, move-in day.

(Applause.)

PARTICIPANT: Yea, 209.

MS. BROWN: Woo, 209. So thank you for being here this morning to help us and inform us on some -- a lot of empty seats over there -- inform us on the master plan.

My name is Ann Brown. I am the medical center director here at Greater Los Angeles. And I am going to read my script.

So here at GLA, we want to provide veteran housing and enhanced services as soon as possible, starting right now. This is the largest VA campus with the largest veteran homeless population. This is a unique situation that requires unique solutions. VA is methodically evaluating the draft master plan while fulfilling historic and environmental due diligence, as required by state and federal laws. Despite some criticism that VA is not moving fast enough, significant progress has been made. And today marks a milestone in working through these processes. And we welcome your comments as they relate to the master plan.

The proposed action is to evaluate and improve the existing draft master plan in order to develop the most effective use of the West Los Angeles campus for veterans services, particularly for homeless veterans, including underserved populations, such as female veterans, aging veterans, and those with severe physical -- disabled.

Primary considerations for evaluating the existing draft master plan are the provision of appropriate levels of supportive housing on the campus in renovating existing buildings or newly constructed facilities; respect for individual veteran choices on whether to seek housing at the West L.A. campus or in the local community; the need for appropriate level of bridge and emergency housing, along with the short-term treatment services on the campus; and to provide state-of-the-art primary care, mental health, and addiction service to veterans, particularly those that are chronically

homeless; the expansion of the main hospital and healthcare facilities on the campus, including new research labs and graduated-care facilities for our aging veterans.

The West Los Angeles draft master plan adopted by the Secretary of VA in January 2016 supports the revitalization of the 388-acre West L.A. campus. This revitalization includes 1,200 units of permanent supportive housing; services promoting health, vocational training, recreation, and family; rehabilitation of historic structures; a town center and amphitheatre; and patient-care enhancements. In September 2016, the West Los Angeles Leasing Act of 2016, or Public Law 114-226, was enacted, allowing enhanced-use leases as the mechanism for VA to work with the private sector to provide permanent supportive housing on the West L.A. campus.

At this time, I would like to provide some additional information on the enhanced-use lease program with specific focus on the West L.A. campus.

An enhanced-use lease, or EUL, is a partnership with the community to provide permanent supportive housing for veterans and their families. Before VA can engage in this partnership, we must first identify vacant or underutilized land and/or buildings that can be outleased.

Within the EUL partnership, the non-VA entity finances, develops, renovates, and/or constructs and operates the housing facilities and is responsible for the cost of development and operations. VA then refers veterans for the enhanced-use lease housing and monitors housing operations.

Currently, the West L.A. campus has several EULs either underway or proposed, as illustrated in the displayed map. So today the excitement is around building 209, the purple spot, the purple area right there. We also have an -- okay. I went off script. And that is what I am not supposed to do. These include the existing EUL for building 209, right there; upcoming EUL for buildings 205 and 208, the blue area; and proposed EULs for MacArthur Field, the yellow area, and buildings 156, 157, and 158, the green area.

So displayed on the screen is the anticipated phasing timeline for implementation of new permanent supportive housing on the West L.A. campus for homeless veterans. I would like to highlight the primary components of the initial phase of the development. Beginning with the 12-month section, building 209 EUL was awarded in January

2017. And today, we will move in 54 chronically homeless veterans into permanent supportive housing. They have been identified and are moving in as we speak.

Continuing in the 24- to 30-month section, the EUL solicitation for buildings 205 and 208 was issued in March 2017. The proposals are due. We are in the process of reviewing and expect an announcement of this approximately 100 units of permanent supporting housing imminently.

And, finally, closing out the initial phase development with the 30- to 48-month section, new construction on MacArthur Field is anticipated to commence following this EIS. And that new construction will provide approximately 150 units of permanent supportive housing, including designated units for female veterans with dependents. And, additionally, within the same section, the EUL for buildings 156, 157, and 158 is anticipated to commence following the EIS as well. And this EUL will provide approximately 180 units of permanent supportive housing to chronically homeless veterans.

So following the initial phase development and upon completion of the EIS, VA will enter the midterm and future development phases, which is intended to provide approximately 720 additional units of permanent supportive housing for chronically homeless veterans on the West L.A. campus. This timeline is conceptual and will be periodically updated and evaluated based on future analysis of the housing demand in the greater L.A. area.

Within this phasing timeline for development of permanent supportive housing, two primary contingencies have been identified, and we will continue to be monitor them. The first involves the necessary due diligence to address utility infrastructure issues, environmental issues, and historic preservation analysis. And the second contingency involves the developer's ability to quickly obtain local zoning, permit approvals, and non-VA capital funding from their various funding sources.

So, as mentioned earlier, one of the primary considerations of this proposed action is the expansion of the main hospital and healthcare facilities on the campus, including new research labs and additional graduated care for our veterans.

Contemplated improvements include the main hospital building, our acute-care facilities, ambulatory outpatient care and clinics, centralized research facilities, hospitality for visitors and

patients, diagnostic and treatment facilities, and clinical support for services with the modern state-of-the-art healing environment.

Additional enhancements to healthcare will focus on providing a collaborative integration of healthcare, food service, and comprehensive translational research in support of our veterans. So a lot of exciting things going on now and certainly on the horizon.

And at this time, I would like to introduce our next speaker, Mr. Glenn Elliott.

MR. ELLIOTT: Good morning, everybody. NEPA background. The National Environmental Policy Act of 1969 requires federal agencies to undertake an assessment of the environmental effects on their proposed actions prior to making decisions. Two major purposes of this environmental-review process are better informed decisions and citizen involvement. NEPA is often referred to as an umbrella law as it encourages integrated compliance with other environmental laws to comprehensively evaluate a proposed action's potential impacts.

NEPA documents, review, analyze a myriad of environmental laws, federal, state, and local level, to determine potential impacts from the proposed action and alternatives. VA's compliance with NEPA for the West Los Angeles campus draft master plan will include preparation of an EIS that will be made available for public review and comment. Preparation of an EIS meets the compliance requirements of NEPA.

A little background on CEQA. Similar to NEPA, the California Environmental Quality Act, or CEQA, is a California-specific statute that requires state and local agencies to identify significant environmental impacts of a proposed action and to avoid or mitigate these potential impacts where possible. CEQA is often conducted in parallel with NEPA document development as they have similar objectives to identify potential environmental impacts and public-review timeframes.

CEQA is a state requirement. In cooperation with our state partners, we will ensure that all CEQA regulations and requirements are compiled with through our NEPA process. Preparation of an EIR meets the compliance requirements of CEQA. VA is preparing a combined EIS and EIR for efficiency.

NEPA scoping. Scoping is the first formal phase in the NEPA process. Federal agencies are required to provide an early and

open process for the public to assist in determining the scope of issues to be covered in an EIS. The scoping process began with our notice of intent, which was published in the Federal Register on May 19th, 2017 and contains our intent to prepare the West Los Angeles campus draft master plan EIS. The scoping process is the best time to identify issues, determine points of contact, establish project schedules, and provide recommendations to VA. The overall goal is to define the scope of issues to be addressed in depth in the analysis that will be included in the EIS. Specifically, scoping will identify people or organizations who are interested in the proposed action, significant issues to be analyzed in depth in the EIS and issues to eliminate, issues that have been adequately covered in prior environmental reviews, roles and responsibilities of lead and cooperating agencies, any related NEPA documents, gaps in data and informational needs; other environmental reviews and consultation requirements so they can be integrated with the EIS; and the relationship between the development of environmental analysis and the VA's tentative decision-making schedule. We encourage veterans, veteran organizations, historic and cultural resource groups, affected tribes, local and state government agencies, and the surrounding community to participate.

Process flow. This is a high-level overview. Displayed on the screen is the process flowchart providing high-level outline of the NEPA process, including the use of NEPA analysis procedures for the National Historic Preservation Act, or NHPA, to address impacts to historic properties.

I will focus primarily on the NEPA portion at this time, but Doug Pulak, VA's deputy historic preservation officer, will review the same flowchart later in the presentation when discussing NHPA.

The process began when VA identified a need for an action, which is the implementation for the West Los Angeles draft master plan. With the proposed action, VA assessed and determined that significant environmental effects may occur if implemented. Following this identification, VA issued a notice of intent to prepare the EIS.

As the first formal step in the process, VA is hosting today's meeting and the previous two days. After reviewing the scoping comments, VA will continue analysis reviews, consultation, and will prepare a draft EIS. The draft EIS will be made available for public review and comment. During this public-review period, VA will host a series of public meetings in open forums to solicit comments on the draft EIS.

Following a review of the draft EIS public comments, VA will prepare a final EIS, including responses to comments received on the draft EIS. The final EIS will be made available to the public. The NEPA process concludes with the issue of a record of decision.

A West Los Angeles campus update. At this time, I would like to provide several updates on NEPA documents for the West Los Angeles campus. The environmental assessment, or EA, for building 209 has been finalized. The EA for buildings 205 and 208 EUL is already moving forward. Additionally, the EA for the Columbarium expansion project, which will provide 90,000 niches for veterans and their dependents, has been finalized. As mentioned on the previous slide, on May 19th, 2017, the VA issued a notice of intent regarding the West Los Angeles draft master plan EIS.

The West Los Angeles campus master plan EIS will identify various resource areas in depth, identifying both beneficial and detrimental effects of the proposed actions. As mentioned earlier, NEPA is an umbrella law for the integrated compliance with other environmental laws to comprehensively evaluate the proposed action's potential impacts. The list displayed on the screen outlines the resource areas under review, to include concerns raised by the community, such as traffic, noise, and utilities.

Proposed alternatives. Identifying, considering, and analyzing alternatives is a key component to the NEPA process for decision-making. A range of practicable and reasonable alternatives will be considered for this EIS. The proposed action would involve multiple, concurrent, and/or subsequent projects to be executed.

Currently, VA has identified several potential action alternatives for each analysis in the EIS for each grouping. As you review the alternatives, each includes relocation of tenants and services to other existing buildings. The differences between alternatives A through D are alternative A renovates and retrofits existing buildings for a new function, alternative B renovates and retrofits existing buildings to relocate tenants back to their space, alternative C demolishes the former buildings and constructs new buildings, alternative D demolishes the former buildings with no replacement building. Alternative E is the no-action or status-quo alternative as a basis for the comparison to the action alternatives.

Pursuant to NEPA, an agency's preferred alternative is the alternative that the agency believes would fulfill the purpose and

need of the proposed actions considering the economic, environmental, technical, or other factors.

At this time, we have not identified a preferred alternative. However, the VA will be conducting numerous surveys and studies to inform the analysis for the EIS. From this, VA will have identified a preferred alternative that will be included in the draft EIS.

Anticipated timelines. Preparing an EIS for the West Los Angeles campus draft master plan will take time to complete. While we currently anticipate 24-month timeline for completion, we are actively pursuing opportunities to expedite this timeline. In the coming year, VA will be conducting various supplemental and supporting environmental studies and analysis. VA will then prepare the draft EIS, which will be available for public review and comment by the end of 2018. VA will host public meetings on the draft EIS, to include a 60-day comment period.

At this point in time, I would like to introduce the next speaker, Mr. Doug Pulak.

MR. PULAK: Good morning. I am Doug Pulak, the deputy federal preservation officer for VA. And I messed up the slides. There we are.

One aspect of NEPA that requires analysis is the potential impacts to cultural resources. Cultural resources are historic properties; paleontological remains; cemeteries, in this case the Los Angeles National Cemetery; parks; archeological sites; and sacred practices. This EIS will address all impacts to cultural resources evaluated in the draft master plan.

The National Historic Preservation Act of 1966, or NHPA, protects our nation's historic properties. An historic property could include a prehistoric or historic district, site, building, structure, or object included in or eligible for inclusion in the National Register of Historic Places, or National Register, which is overseen by the National Park Service.

Section 106 of the NHPA requires federal agencies to consider how undertakings they carry out, assist, fund, or permit affect historic properties and to provide the Advisory Council on Historic Preservation, or ACHP, a reasonable opportunity to comment on such undertakings. An undertaking is an action or project. In this

case, it is the implementation of the draft master plan. The goal of the section 106 process is to identify and consider historic properties that might be affected by an undertaking and to attempt to resolve any adverse effects through consultation. The section 106 process provides for participation by the State Historic Preservation Office, or SHPO; the ACHP; Native American tribes; representatives from local governments; interested organizations; and private individuals. This consultation effort will continue throughout the development of the EIS.

Section 106 requires federal agencies to seek ways to avoid, minimize, or mitigate the effects of their actions on historic properties, but it does not require the federal agency, in this case VA, to choose the alternative least likely to affect historic properties. In the interest of efficiency, completeness, and facilitating public involvement, it is VA's intention to fully incorporate the review procedures for historic properties through substitution of its NEPA analysis. This EIS process will include consideration of NHPA issues, specifically the definition of the undertaking, being the implementation of the draft master plan; the definition of the area of potential effect and identification of historic properties; and the definition of the potential effects of the undertaking.

The area of potential effect, or APE, for this undertaking is the entire VA site, including the West Los Angeles campus and the Los Angeles National Cemetery.

All right. Mine is different. We are not moving together anymore. What is up there is not what is on here. Great. Thank you. All right.

So the area in red, shown in red, is our APE.

The draft master plan does not include any off-campus construction. And none of the possible construction exceeds current campus building heights. There are no plans for construction activities on the grounds of the Los Angeles National Cemetery as part of the draft master plan, but there could be circulation impacts that need to be analyzed.

Historic properties within the APE include the Wadsworth Chapel; the Streetcar Depot; known archeological deposits; potential archaeological sites; and the West Los Angeles VA Historic District, including the Los Angeles National Cemetery.

The West Los Angeles VA Historic District listed in the National Register of Historic Places in 2014 is shown in yellow and the most likely to be affected by this undertaking. The historic district includes many of the campus buildings but not all and includes some of the landscape elements and portions of the circulation pattern of the North Campus. Some of the historic district's character-defining features include Victorian, shingle, Colonial, mission, and Mediterranean revival-style buildings.

The Wadsworth Chapel, also known as the Catholic-Protestant chapels, was listed in the National Register in 1972 and is a contributing element to the historic district. Several of the Wadsworth Chapel's character-defining features include dual sanctuaries and entrances, an arch portico, and it is a notable example of the shingle architectural style.

Building 66 has several names, including the Streetcar Depot, News Stand, or the Trolley Stop. This building was listed in the National Register in 1972 and is also a contributing element to the historic district. The Streetcar Depot's character-defining features include its arched windows and wood columns and vertical board cladding. The draft master plan does contemplate moving this building.

Previous surveys of the West Los Angeles campus have identified four archeological deposits. The presence of deposits and the locations of other archeological sites nearby suggest that more deposits may be located within the campus boundaries. VA will take into account the potential for archeological sites as part of the EIS with plans developed in consultation with the SHPO, ACHP, Native American tribes, and other consulting parties.

This table shows the five alternatives that Glenn discussed and identifies potential effects to historic and cultural resources resulting from each alternative. VA is seeking comment on these or any other potential effects to cultural resources that you might suggest. This table is available as a handout in the welcome area and will be posted on VA's draft master plan website.

The same process flowchart that Glenn covered earlier is shown again to provide specific focus on the use of NEPA analysis procedures for NHPA to address impacts to historic properties. As discussed, when VA issued the notice of intent, it also provided a notice of substitution under the National Historic Preservation Act.

Along with these scoping meetings, we began public outreach to identify consulting parties with an interest in historic preservation. Following analyses, reviews, and consultations, VA will develop a draft EIS that will identify and assess adverse effects to historic properties. The draft EIS will be made available for public review and comment. And VA will work to resolve any adverse effects to historic properties through consultation. Following consultation, VA will prepare a final EIS, which will contain the mitigation or agreement document for adverse effects to historic properties.

VA is pleased to be partnering with the 1887 Fund, a federally recognized nonprofit organization, to restore five historic buildings on the West Los Angeles campus. These are the Wadsworth Chapel, the governor's mansion, the superintendent's home, the Streetcar Depot, and Hoover Barracks.

Now I would like to turn the podium back to Mr. Ian Musa.

MR. MUSA: Thanks, Doug.

Good morning, folks. Again, Ian Musa, a program manager with the Concourse Federal Group.

VA will be updating the draft master plan website linked through VA's Greater Los Angeles Medical Center webpage to provide frequently asked questions; VA partnerships, both on and off campus; master plan; and NEPA, NHPA documents and information; public hearing information; and town hall information. The draft master plan webpage provides veterans, community partners, and the general public with a one-stop shop for centralized draft master plan information, updates on progress, and next steps. Additionally, we will provide consistent updates on progress with the EIS during our recurring town halls and other relevant public forums.

As mentioned earlier, for scoping, VA encourages the community to submit public comments on considerations for the development of the draft EIS. A reminder that the public comment period will conclude on June 30th, 2017. You can submit public comments in several ways. In-person comments can be shared during the scoping meeting today, either verbally or via written comment card. You can mail your comments to the address on the screen or you can email your comments to vhaglamasterplan@va.gov.

This concludes our formal presentation. At this time, participants are invited to provide comments on considerations for the

EIS. Please note the following logistics. Time limit. In anticipation of a large number of verbal comments, VA will limit attendees to a three-minute timeframe. Lottery system. Speakers will be chosen by a lottery drawing method, which determines the order of comments to provide an unbiased selection of speakers. Name. Before making a public comment, we ask that you please announce your name. Finally, as a reminder, comments should be limited to those relating to the EIS. Questions or comments relating to benefits, healthcare, or other issues should be addressed at the appropriate table located in the atrium. Thank you.

The first number is AlO. AlO. If you just stand up, we will bring a mike to you.

MS. LAKE: Thank you. Good morning. I am Dr. Laura Lake. I am here on behalf of the Coalition for Veteran's Land, which has a mission to save this property for only direct services to veterans and to protect the quality of life in Los Angeles and its veterans.

My concern is that there was no parallel CEQA documentation. And to really be able to make comments and input to the EIS process, the CEQA initial study and CEQA checklist would be really valuable. And we believe there is an urgency to implement this master plan. We would like to extend the comment period if we could so that we can really have some breadcrumbs to follow to be able to flag potentially significant impacts.

Disabled veterans are sensitive receptors under California law. We are concerned about the oilfields, potential air pollution from them, potential radioactive waste buried on the campus. And we want to make sure that there is also defensive architecture and security for women veterans and children. And we applaud the VA for finally including women veterans and their children on this campus and hopefully throughout America. But we remain concerned about the lack of the parallel documentation. So we have had federal documents before; for example, for the federal building expansion in 2005, they were in sync. This appears unless I have missed something not to be in sync. And that is of concern.

But we want to see this happen. So if there is any way you can address this missing piece of information? Is there an initial study available?

MR. MUSA: I will turn it over to Glenn for a response, but thank you very much for your comment.

MR. ELLIOTT: Thanks for the comments.

MS. LAKE: Thank you.

MR. ELLIOTT: We are planning on doing the parallel process with the EIS and EIR. The checklist and other portion that you are talking about, I will take a look into that, exactly when that would come out. I think that actually comes out a little bit after the initial scoping meeting associated with NEPA. So I will take a look at that. And we will get back to you on that. Okay?

The other studies and things like that that you mentioned, we are doing a -- I know I am too close to that speaker -- we are doing a lot of background studies. And that will include geotechnical studies in some of the areas that you talked about. We are doing traffic studies. We are doing utility studies. There are going to be architectural and historical studies that are going to be done, cultural studies. So all of those things will be addressed as we move up towards the draft EIS.

MR. MUSA: Thanks, Glenn.

A09.

MR. RANKIN: I am Bruce Rankin.

MR. MUSA: Let's just stand by one sec so we can get you on the mike. We want to make sure -- yes. We are going to bring a new one.

MR. RANKIN: Hello. That is a big improvement.

(Laughter.)

MR. MUSA: Thank you.

MR. RANKIN: Bruce Rankin, Westside Food Bank.

My first question is, will the PowerPoint that you presented be available to us?

MR. MUSA: The PowerPoint will be posted on the draft master plan website.

MR. RANKIN: Okay. Very good. So Westside Food Bank has interacted with the VA for over 20 years here on campus supplying food to New Directions and other programs on campus and have put in quite a bit of testimony to the 2015 master plan process. And since October, we have been distributing produce to at least 150 people a week on Thursday afternoons at the pavilion near building 500. As of yesterday, we have expanded that food provision to provide prepared sack lunches to vets visiting building 402. And also we are in discussions with other sites on campus for lunch provision and also at Sepulveda and downtown on Temple Street.

We have also on campus installed a couple of dozen raised-bed produce gardens, garden beds, near the golf course on campus here and are in the process of expanding that working with Heidi Marston and UCLA -- and I know, Mr. Musa, you have been in the loop on that.

MR. MUSA: Yes, sir.

MR. RANKIN: -- are seeking and working with Heidi Marston to identify interior space that will allow for an indoor food pantry that could work probably five days a week.

So all of those things are going to require further discussion. And I just wanted to be here to let you know that the food bank is very deeply involved in making this the gold standard for food security for vets in the country.

MR. MUSA: Thank you very much, Bruce.

MR. RANKIN: Thank you.

MR. MUSA: So that exhausts our lottery system comments. At this time, we will open it up to anybody else who wasn't able to grab a ticket. If you just raise your hand, we will bring a mike over to you.

MS. PRINGLE: Hi. My name is Mary Pringle. And I am a neighbor on Waterford. And I realize now I could probably go online to get the answers to these questions.

Ms. Brown, I couldn't see clearly. Where exactly are buildings 209, 205, 208, and the MacArthur Field, as well as the proposed amphitheatre and how far the Columbarium, what coverage that will be? Yes. Where is that from where we are?

MR. MUSA: So this is Brentwood Glen.

MS. PRINGLE: Okay.

MR. MUSA: This is the ball stadium. That is 209, 205, 208, MacArthur Field, 156, 157, 158.

MS. PRINGLE: Where is Wilshire?

MR. MUSA: Wilshire is right here.

MS. PRINGLE: Right where?

MR. MUSA: This is Wilshire right here.

MS. PRINGLE: Oh, okay. Got it. All right. So it is over more. It is further. So what is there now where that, the MacArthur Field is proposed? What is there now?

MR. MUSA: It is just a field for soccer.

MS. PRINGLE: Oh. It is a field for soccer? Okay. And the Columbarium will go how close to Waterford? I know that was supposed to be off Constitution originally.

MR. MUSA: So I think I can answer all of your questions. If they are not specific to the EIS, I can maybe talk to you afterwards.

MS. PRINGLE: Okay.

MR. MUSA: If you want to press with any specific to the EIS?

MS. PRINGLE: Okay. All right. Thank you.

MR. MUSA: Perfect. Thanks, Mary.

Any additional comments? If you would like to make a comment, feel free to raise your hand at this time. We will bring a mike to you. Last call.

(No response.)

MR. MUSA: All right. Well, thanks, everybody. Really appreciate you coming out. As mentioned, we will post this information on the draft master plan website. If you have questions or concerns, the email address is out there as well as other handouts so that you know our mailing address just to make comments. Thank you.

(Whereupon, at 9:42 a.m., the meeting was adjourned.)

### Appendix B. Draft Programmatic Agreement

Currently under review by VA and Consulting Parties. Draft to be updated based on consultation efforts.



DEPARTMENT OF VETERANS AFFAIRS
Greater Los Angeles Healthcare System
11301 Wilshire Boulevard
Los Angeles, CA 90073

## PROGRAMMATIC AGREEMENT AMONG

THE U.S. DEPARTMENT OF VETERANS AFFAIRS, VETERANS HEALTH ADMINISTRATION, GREATER LOS ANGELES HEALTHCARE SYSTEM; THE ADVISORY COUNCIL ON HISTORIC PRESERVATION; AND

THE CALIFORNIA STATE HISTORIC PRESERVATION OFFICE
REGARDING REDEVELOPMENT OF THE WEST LOS ANGELES CAMPUS OF THE
VETERANS AFFAIRS GREATER LOS ANGELES HEALTHCARE SYSTEM

WHEREAS, the West Los Angeles (WLA) Campus of the Veterans Affairs (VA) Greater Los Angeles Healthcare System (GLAHS), located at 11301 Wilshire Boulevard in Los Angeles, California, has developed and will implement a Draft Master Plan (DMP) to guide redevelopment of the WLA Campus to better serve the needs of Veterans in the GLAHS service area over the next 20 to 30 years (undertaking); and

WHEREAS, the DMP shall assist VA to determine and implement the most effective use of the WLA Campus for Veterans, particularly for homeless Veterans, including underserved populations, such as female Veterans, aging Veterans, and those who are severely physically or mentally disabled. The primary considerations include: (a) the provision of appropriate levels of supportive housing on the WLA Campus, in renovated existing buildings or newly constructed facilities, while taking into account the Los Angeles County assessments of available housing units in the greater Los Angeles community; (b) respect for individual Veteran choices on whether to seek housing at WLA or in the local community; (c) parameters of applicable law; and (d) the need for appropriate levels of bridge and emergency housing along with short-term treatment services on the WLA Campus to provide state-of-the-art primary care, mental health care, and addiction services to Veterans through rehabilitation and/or renovation of WLA Campus buildings; demolition; new construction; and consolidation of services; and

WHEREAS, the WLA Leasing Act of 2016 (PL 114-226) allows the Secretary of VA to enter into enhanced use leases for the use and renovation of the WLA Campus to provide supportive housing and specific, community-based support services; and

**WHEREAS,** Section 106 of the National Historic Preservation Act (NHPA), 54 U.S.C. 306108, and its implementing regulations, 36 CFR Part 800, *et seq.*, as amended (collectively referred to here as "Section 106"), require federal agencies to take into account the effects of their undertakings on historic properties and provide the Advisory Council on Historic Preservation (ACHP) a reasonable opportunity to comment on those undertakings; and

**WHEREAS**, VA has determined that the undertaking may have an effect on historic properties listed in or eligible for listing in the NRHP and has consulted with the ACHP and California State Historic Preservation Officer (SHPO) pursuant to 36 CFR Part 800; and

WHEREAS, VA notified in advance the SHPO and ACHP that it would incorporate the review procedures for historic properties usually carried out separately under 36 CFR §§ 800.3 through 800.6, into its National Environmental Policy Act (NEPA) analysis, a process known as substitution and outlined at 36 CFR § 800.8(c), and the ACHP has chosen to participate in consultation; and

WHEREAS, VA, through consultation with SHPO and ACHP, has determined that it shall fulfill its Section 106 responsibilities for the undertaking through the development and implementation of this programmatic agreement (PA) under 36 CFR § 800.8(c)(1)(v) and 800.14(b), including § 800.14(b)(1)(ii), which recognizes that a PA may be used when effects on historic properties cannot be fully determined prior to approval of an undertaking; and

**WHEREAS,** VA invited the Soboba Band of Luiseno Indians, California and Torres Martinez Desert Cahuilla Indians, California to participate in consultation as federally recognized Tribes with cultural and/or religious affiliation to Los Angeles County; and

WHEREAS, X accepted VA's invitation and have participated in this consultation; and

WHEREAS, VA contacted the California Native American Heritage Commission in an effort to identify local Indian tribes that may attach religious and/or cultural significance to the WLA Campus, in accordance with 36 CFR § 800.2(c)(5), and invited the Gabrielino Tongva Nation; the Gabrielino Tongva Tribe; the Gabrielino Tongva Indians of California; the Gabrielino/Tongva San Gabriel Band of Mission Indians; and the Tongva Ancestral Territorial Tribal Nation to participate in consultation; and

WHEREAS, the Tongva Ancestral Territorial Tribal Nation, the Gabrielino Band of Mission Indians, and the Gabrielino Tongva Indians of California have participated in this consultation as Consulting Parties; and

WHEREAS, VA invited the 1887 Fund; the Los Angeles Conservancy; and the Veterans Park Conservancy to participate in this consultation as Consulting Parties, in accordance with 36 CFR § 800.2(c)(5), and they accepted; and

WHEREAS, VA contacted the California Preservation Foundation; the Los Angeles City Historical Society; the Los Angeles City/County Native American Indian Commission; the Los Angeles County Board of Supervisors; the Los Angeles Office of Historic Resources; the Historical Society of Southern California; the National Trust for Historic Preservation; and the Society for California Archaeology to participate in consultation, but they either did not respond or declined to participate; and

WHEREAS, VA, in consultation with SHPO, has determined the Area of Potential Effects (APE), which encompasses the entire WLA Campus and the Los Angeles National Cemetery (LANC); and

WHEREAS, portions of the WLA Campus and all of the LANC were listed in the National Register of Historic Places (NRHP) as the West Los Angeles VA National Register Historic District (WLA VA NRHD) under Criteria A and C; and

WHEREAS, VA, in consultation with SHPO, has identified the historic properties within the APE that may be affected by the undertaking: the WLA VA NRHD, and the Wadsworth Chapel (Building #20) and the Streetcar Depot (Building #66), which are both individually listed in the NRHP; and

WHEREAS, VA, in consultation with SHPO, has determined the undertaking has the potential to affect unidentified archaeological sites that may be eligible for listing in the NRHP; and

WHEREAS, VA has identified WLA Campus Historic Preservation Areas: Area A includes the portion of the campus south of Wilshire Boulevard (South Campus) that is not part of the WLA VA NRHD; Area B includes portions of the WLA VA NRHD on the South Campus and the portions of the WLA North Campus that contain contributing resources from the National Home for Disabled Volunteer Soldiers; Area C includes portions of the North Campus between the California Veterans Home, Bonsall Avenue, and Wilshire Boulevard; Area D includes portions of the North Campus between the California Veterans Home, Bonsall Avenue, and the Heroes Golf Course; Area E includes portions of the North Campus developed by non-VA entities; and Area F includes the engineering area on the North Campus east of Bonsall Avenue (Attachment A); and

WHEREAS, VA has identified within these areas its preservation priorities which best illustrate the historic character of the WLA VA NRHD; and

WHEREAS, VA will use a phased approach to assess the undertaking's effects to historic properties, pursuant to 36 CFR § 800.5(a)(3) and as stipulated below; and

**WHEREAS**, on October 19, 2018, the ACHP accepted a Program Comment in accordance with 36 CFR § 800.14 to provide VA with alternate procedures to comply with Section 106 regarding vacant and underutilized properties; and

**WHEREAS,** renovations of Buildings 205, 207, and 208 as well as the rehabilitation of Building 209, completed in 2017, are independent undertakings outside the purview of this PA; and

**NOW, THEREFORE,** VA, SHPO and ACHP agree that implementation of the following stipulations evidence that VA has taken into account the effects of the undertaking on historic properties, and this PA evidences compliance with Section 106 in accordance with 36 CFR § 800.8(c)(4)(i)(B).

#### **STIPULATIONS**

VA shall ensure that the following measures are carried out:

#### I. APPLICABILITY

- a. VA is responsible for ensuring implementation of the stipulations in this PA associated with the undertaking, including those actions undertaken by private developers and nonprofit organizations through enhanced use leases and other agreements.
- b. The Anti-Deficiency Act, 31 U.S.C. 1341, prohibits federal agencies from incurring an obligation of funds in advance of or in excess of available appropriations. Accordingly, the parties agree that any requirement for the obligation of funds arising from the terms of this PA shall be subject to the availability of appropriated funds for that purpose, and that this agreement shall not be interpreted to require the obligation of funds in violation of the Anti-Deficiency Act.

#### II. GENERAL

- a. The Signatories prefer all official correspondence in hard copy as appropriate. Email communications are acceptable; however, specific comments on the undertaking should be in hard copy/on agency letterhead.
- b. Time designations shall be in calendar days. Failure to comment within specified time designations shall not prevent VA from proceeding in the process as outlined in this PA.

- c. For the purposes of this PA, the definitions provided in 36 CFR §§ 800.16(a) through (z) shall apply.
- d. VA shall ensure that federal or contractor staff who meet the applicable Secretary of the Interior's *Professional Qualification Standards* for architectural history, history, archeology, architecture, and historic architecture (36 CFR Part 61), participate in the review and implementation of the treatment measures required as part of this PA. In addition, where individual reviews are performed and require adherence to the *Professional Qualifications Standards*, VA shall ensure that a staff member or contractor who meets the appropriate standard is included in the design process.
- e. VA shall post a progress report every year on the DMP website, which shall include information on any uses, leases, sales, conveyances, or demolitions of vacant and underutilized buildings that will be managed under the Program Comment; updates, if any, on DMP projects; implementation of the mitigation measures related to the DMP' project summaries submitted; and consultations with SHPO, as well as any inadvertent discoveries or objections and the resolution(s).

#### III. PRESERVATION PRIORITIES

- a. To inform long-term facility planning at the WLA Campus, VA has established preservation priorities based on the relative significance of the multiple contributing resources to the WLA VA NRHD. Those of primary significance that best represent the history of the WLA Campus as expressed by NRHP Criteria A and C are Preservation Priority 1 resources. Built resources of secondary significance that do not singularly define a period of WLA Campus history but collectively illustrate significance have been identified as Preservation Priority 2 resources. Built resources of limited significance that historically served a support function but independently do not express Criteria A and C are Preservation Priority 3 resources. Non-contributing resources and campus resources outside the WLA VA NRHD are not preservation priorities. VA shall take into consideration these preservation priorities during project development, with the goal of minimizing or avoiding adverse effects to the district as a whole. A list and map of these preservation priorities is contained in Attachment A.
- b. Archaeological resources related to the history of the WLA Campus as a place of care for Veterans that demonstrate research potential as described by 36 CFR § 60.4(d) and retain sufficient integrity are considered Preservation Priority 2 or 3 resources. The archaeological resources that are not related to care of Veterans shall be addressed in accordance with Stipulation VII.
- c. In order to minimize and/or avoid adverse effects of implementation of the DMP on all historic properties, VA shall develop a Campus Historic Resource Plan (CHRP).
  - i. The CHRP shall be based on the Secretary of the Interior's Standards for the Treatment of Historic Properties with specific references to the Standards for Rehabilitation (SOI Standards), as well as the WLA VA NRHD NRHP nomination (2014).
  - ii. The CHRP shall provide comprehensive design guidelines for renovation, additions, and new construction, intended to avoid and minimize adverse effects to the WLA VA NRHD.
  - iii. The CHRP shall provide specific direction for the WLA Campus, with tailored guidance for specific areas, based in the preservation priorities noted above.
  - iv. VA shall submit a draft CHRP to all Consulting Parties for review and comment within 120 days of executing this PA.
  - v. VA shall finalize the CHRP within 365 days of executing this PA.

vi. Prior to finalizing the CHRP, VA will use the *SOI Standards* as guidance for redevelopment and new construction in the WLA VA NRHD.

#### IV. REVIEW PROCEDURES

#### a. Review Process for all projects

- i. If VA chooses, VA shall comply with the Program Comment for the use, lease, sale, conveyance, or demolition of vacant and underutilized buildings that meet the terms of the Program Comment.
  - 1. VA shall notify the Consulting Parties via email if the annual publication of VA's Real Property Portfolio includes WLA Campus buildings or resources and accept comments within the timeframes established in Section 3 of the Program Comment.
  - 2. Should any Signatory to this PA object in writing to VA's use of the Program Comment to resolve adverse effects, the parties shall proceed in accordance with Stipulation VIII of this PA.
- ii. If the Program Comment is not applicable or if VA chooses to follow the terms of this PA, VA shall submit proposed DMP projects to SHPO for review and comment on a Project Review Form (PRF).
  - 1. These submissions may be single projects or a phase of the DMP that includes several distinct projects.
  - 2. Each submission shall include a finding of effect: no historic properties affected, no adverse effect to historic properties, or adverse effect to historic properties.
    - a. Each submission shall include, at a minimum:
      - i. A description of the proposed project
      - ii. A map of the WLA Campus with the location of the project identified;
      - iii. A map of the area of potential effect as defined by 36 CFR \$800.16:
      - iv. No less than three photographs of the historic resources affected;
      - v. Drawings, as necessary;
      - vi. Preservation Priority status; and
      - vii. Supporting documentation, as necessary.
  - 3. VA shall post each submitted PRF, along with related responses and correspondence among the signatories, to the DMP website and notify Consulting Parties on new postings.

#### b. Review Process for No Historic Properties Affected

- i. VA shall submit a PRF with the basis of the finding of effect. SHPO has 30 days to respond; if SHPO does not respond in 30 days, VA may proceed.
- SHPO shall respond with either concurrence or a request for more information; if SHPO concurs, documentation shall evidence completion of consultation for the project.
- iii. If SHPO requests more information, it shall have 15 more days to review new information from VA and provide comment. If SHPO does not respond in 15 days, VA may proceed.
- iv. If SHPO concurs, documentation shall evidence completion of consultation. If SHPO does not concur with completion of consultation for the project, VA may either:

- 1. Concur with SHPO's determination and proceed in accordance with Stipulation IV(d), or
- VA may seek the opinion of the ACHP concerning the determination of No Adverse Effects. ACHP shall have 30 days to issue its opinion concerning VA's determination. If ACHP does not respond in 30 days, or concurs with VA's determination, VA may proceed.
  - a. If ACHP disagrees with VA finding, VA may either proceed with a mitigation measure from Stipulation VI commensurate with the adverse effect ACHP asserts, or VA may implement Stipulation VIII.

#### c. Review Process for No Adverse Effects to Historic Properties

- i. New Construction that follows the SOI Standards or the CHRP Guidelines
  - VA shall submit a PRF along with documentation of how the project meets the SOI Standards or CHRP Guidelines (i.e. schematic design plans, site plans, elevations, sections, or renderings illustrating the proposed conditions) to SHPO prior to completion of the preliminary design plans.
  - 2. SHPO has 30 days to respond with either concurrence, or a request for more information. If SHPO does not respond within 30 days, VA may proceed, and documentation shall evidence completion of consultation. If SHPO requests additional information, it shall have 15 more days to review new information from VA and provide additional comment.
  - 3. Before completing Construction Drawings, VA shall submit supporting documentation, including incorporation of comments from SHPO and a determination if the project continues to meet *SOI Standards* or CHRP Guidelines. VA shall include necessary supporting documentation.
  - 4. SHPO shall respond within 30 days with either concurrence or a request for additional information. If SHPO does not respond within 30 days, VA may proceed, and documentation shall evidence completion of consultation. If SHPO requests additional information, it shall have 15 more days to review new information from VA and provide comment. If SHPO does not respond in 15 days, VA may proceed.
  - 5. If SHPO concurs, documentation shall evidence completion of consultation. If SHPO does not concur with completion of consultation for the project, VA may either:
    - a. Concur with SHPO's determination and proceed in accordance with Stipulation IV(d), or
    - b. VA may seek the opinion of the ACHP concerning the determination of No Adverse Effects. ACHP shall have 30 days to issue its opinion concerning VA's determination. If ACHP concurs with VA, or does not respond within 30 days, VA may proceed, and documentation shall evidence consultation.
      - If ACHP disagrees with VA's determination, VA may either proceed with a mitigation measure from Stipulation VI commensurate with the adverse effect ACHP asserts, or VA may implement Stipulation VIII.
- ii. Rehabilitation of a Contributing Resource to SOI Standards or CHRP Guidelines
  - 1. If a project will be accomplished with historic tax credits, the historic tax credit review process normally employed by SHPO may substitute for this stipulation. If the project changes and a tax credit review is halted, VA shall resume review at either Stipulation IV.c.ii.2. or IV.d.iii.

- a. VA shall post correspondence from SHPO regarding review to the DMP website. VA may, at its discretion, withhold documentation deemed proprietary or otherwise confidential.
- VA shall submit a PRF along with documentation of how the project meets the SOI Standards or CHRP Guidelines (i.e. schematic design plans, site plans, elevations, sections, or renderings illustrating the proposed conditions) to SHPO prior to completion of the preliminary design plans.
- 3. SHPO has 30 days to respond with either an opinion that plans meet the *SOI Standards* or a request for more information. If SHPO does not respond within 30 days, VA may proceed. If SHPO requests additional information, it shall have 15 more days to review new information from VA and provide additional comment.
- 4. Before completing Construction Drawings, VA shall submit supporting documentation, including incorporation of comments from SHPO and a determination if the project continues to meet *SOI Standards* or CHRP Guidelines. VA shall include necessary supporting documentation.
- 5. SHPO shall respond within 30 days with either concurrence or a request for additional information. If SHPO requests additional information, it shall have 15 more days to review new information from VA and provide comment. If SHPO does not respond in 15 days, VA may proceed.
- 6. If SHPO concurs, documentation shall evidence completion of consultation. If SHPO does not concur with completion of consultation for the project, VA may either:
  - a. Concur with SHPO's determination and proceed in accordance with Stipulation IV(d), or
  - b. VA may seek the opinion of the ACHP concerning the determination of No Adverse Effects. ACHP shall have 30 days to issue its opinion concerning VA's determination. If ACHP concurs with VA, or does not respond within 30 days, VA may proceed, and documentation shall evidence consultation.
    - i. If ACHP disagrees with VA's determination, VA may either proceed with a mitigation measure from Stipulation VI commensurate with the adverse effect ACHP asserts, or VA may implement Stipulation VIII.

#### d. Review Process for Adverse Effects to Historic Properties

- i. Demolition of a Preservation Priority 1 resource
  - 1. VA shall consult with SHPO and interested Consulting Parties to resolve adverse effects, potentially with a Memorandum of Agreement, pursuant to 36 CFR 800.6. VA may include mitigation measures listed in this PA or develop alternative measures through consultation.
  - 2. VA shall post milestones of this consultation process on the DMP website.
- ii. Demolition of a Preservation Priority 2 or 3 resource
  - 1. VA shall submit a PRF describing the project, with an explanation for the demolition, and propose a mitigation measure from Stipulation VI to the SHPO.
  - 2. If SHPO does not reply within 30 days to the proposed mitigation measure, VA may proceed. The PRF shall evidence completion of consultation.

- 3. If SHPO responds suggesting changes to the mitigation or requesting more information, VA shall take into account SHPO recommendations, and submit an updated PRF; SHPO has 15 days to respond to the updated PRF. If SHPO does not reply to VA's response within 15 days, VA may proceed. Documentation shall evidence completion of consultation.
- 4. If SHPO concurs, documentation shall evidence completion of consultation. If SHPO does not concur with completion of consultation for the project, VA may either
  - a. Proceed with a mitigation measure suggested by SHPO, or
  - b. Seek the opinion of the ACHP. ACHP shall have 30 days to issue its opinion concerning VA's selected mitigation. If ACHP does not respond within 30 days, VA may proceed.
    - i. If ACHP concurs, VA may proceed with implementing that measure. If ACHP suggests a different mitigation, VA may proceed with that mitigation measure from Stipulation VI, or VA may implement Stipulation VIII.
- iii. Renovation of a Preservation Priority 1, 2, or 3 resource not to *SOI Standards* or CHRP Guidelines
  - 1. VA shall submit a PRF describing how renovation does not comply with the *SOI Standards* or CHRP Guidelines and propose a mitigation measure from Stipulation VI.
  - SHPO shall provide guidance of potential ways to alter the project to meet the SOI Standards or CHRP Guidelines and comment on the proposed mitigation. If SHPO does not respond within 30 days, VA may proceed with the project. Documentation shall evidence completion of consultation.
  - 3. If SHPO responds suggesting changes to the project design or mitigation or requesting more information, VA shall take into account SHPO recommendations, and submit an updated PRF. If SHPO does not reply within 15 days to the updated PRF, VA may proceed. Documentation shall evidence completion of consultation.
  - 4. If SHPO concurs, documentation shall evidence completion of consultation. If SHPO does not concur with completion of consultation for the project, VA may either
    - a. Proceed with a mitigation measure suggested by SHPO, or
    - b. Seek the opinion of the ACHP. ACHP shall have 30 days to issue its opinion concerning VA's selected mitigation. If ACHP does not respond within 30 days, VA may proceed.
      - If ACHP concurs, VA may proceed with implementing that measure. If ACHP suggests a different mitigation, VA may proceed with that mitigation measure from Stipulation, or VA may implement Stipulation VIII.
- iv. New Construction not to SOI Standards or CHRP Guidelines
  - 1. VA shall submit a PRF describing the reasons application of the *SOI Standards* or CHRP Guidelines will not meet the goals of the DMP and proposing a mitigation measure from Stipulation VI.
  - SHPO has 30 days to respond and provide guidance of ways to alter the project to meet the SOI Standards or CHRP Guidelines and comment on the proposed mitigation. If SHPO does not respond within 30 days, VA may proceed with the project. Documentation shall evidence completion of consultation.

- 3. If SHPO responds suggesting changes to the mitigation, or requesting more information, VA shall take into account SHPO recommendations and submit an updated PRF; SHPO has 15 days to respond. If SHPO does not reply within 15 days, VA may proceed. Documentation shall evidence completion of consultation.
- 4. If SHPO concurs, documentation shall evidence completion of consultation. If SHPO does not concur with completion of consultation for the project, VA may either
  - a. Proceed with a mitigation measure suggested by SHPO, or
  - b. Seek the opinion of the ACHP. ACHP shall have 30 days to issue its opinion concerning VA's selected mitigation. If ACHP does not respond within 30 days, VA may proceed.
    - i. If ACHP concurs, VA may proceed with implementing that measure. If ACHP suggests a different mitigation, VA may proceed with that mitigation measure from Stipulation, or VA may implement Stipulation VIII.

#### V. UPDATES TO THE DRAFT MASTER PLAN

- a. VA shall notify signatories of proposed updates to the DMP and notify all Consulting Parties of public comment periods and/or meetings related to the update(s).
- b. VA shall assess the effect of the proposed updates on the integrity of the WLA VA NRHD.
  - If the proposed changes to the WLA Campus would degrade the integrity of the WLA VA NRHD to the extent that the district would be ineligible for listing in the NRHP, VA shall consult with SHPO and other Consulting Parties, pursuant to 36 CFR § 800.6.
  - ii. If VA finds that the WLA VA NRHD would remain a historic property following proposed changes, it shall continue to follow the review procedures in Stipulation

#### VI. MITIGATION MEASURES

- a. The CHRP shall be completed prior to executing any DMP projects to ensure that adverse effects are avoided and/or minimized when feasible.
- b. For projects with adverse effects as determined through implementation of Stipulation IV, VA shall select one or more of the mitigation measures listed below commensurate with the effect to the historic property, and propose implementation of that selection in the PRF:
  - Create in conjunction with local educational partner(s), a program to train Veterans in methods, techniques, and principles of preservation, including rehabilitation, architectural stabilization, window restoration, historic landscaping, foundation repair and preservation theory. This program shall stay active for at least 36 months.
  - ii. Establish and maintain an oral and/or video history booth on the WLA Campus.
    - 1. VA shall utilize a professional historian to oversee development of the oral history program.
    - VA shall develop a plan to annually record oral histories of patients, Veterans, staff, family members, and community residents related to the history of the WLA Campus and the Los Angeles National Cemetery.
    - 3. VA shall solicit assistance from local schools to develop questions and transcribe recorded histories.

- 4. VA shall annually provide at least one copy of the digital oral histories and the transcripts at a public state archive, and one copy with a publicly accessible archive in Los Angeles.
- 5. VA shall keep the booth active for no less than three years.
- iii. Contract for the installation of a playground on North Campus in the vicinity of permanent supportive housing units designed for families. Some elements of the design shall reference WLA Campus history and the WLA VA NRHD contributing resources.
  - 1. VA shall forward copies of the design plans prior to 65% completion to SHPO for review to avoid and/or minimize potential adverse effects to historic properties.
  - 2. SHPO shall have 30 days to provide comments.
  - 3. VA shall consider timely comments when finalizing design of the playground.
- iv. Develop a mobile application ("app") to interpret and guide users through the WLA Campus. This app shall include historic photos of the WLA Campus, oral histories, and related historic context.
  - 1. The app platform compatibility shall be determined at the time of development based on current industry standards.
  - 2. This app shall be made available to the public, free of charge (excluding personal user fees as charged by the user's service provider) and remain available for a period not less than five years.
  - 3. Once completed, no updates to the app shall be planned.
  - 4. A record of the mobile app shall be retained at the WLA Campus for reference after the mobile app is no longer digitally available for use.
- v. Develop and maintain a wellness trail with signage at historic buildings/landscapes. These trail stops shall be posted on the WLA Campus, shall be linked as a trail, and shall interpret the history of the WLA Campus.
- vi. Host an annual reunion or "homecoming" day for patients, staff, and other community residents to commemorate the history of the WLA Campus and celebrate the service of Veterans and staff. The event shall include banners with historic photos of WLA Campus and LANC buildings and landscapes. VA shall include opportunities for building "open houses" and oral histories by Veterans and current/former staff. VA shall host this annual event for at least five years.
- vii. Implement an architectural salvage plan developed in consultation with SHPO and included in the CHRP.
- viii. Create with local partners a publicly accessible interpretive display that includes a photographic display related to the history of the WLA Campus and the importance of the WLA Campus to the development of the Sawtelle area. This display shall be available for public viewing for at least two years.
  - 1. This photographic display is intended to be a documentation of the WLA Campus through the years. There is no limit on the number of historical photos that may be included in this display. VA shall solicit materials for this display from local institutions, SHPO, and Consulting Parties.

#### VII. ARCHAEOLOGICAL MEASURES

a. VA, in consultation with the ACHP, SHPO, and consulting parties, finalized an Archaeological Sensitivity Model (ASM) for the WLA Campus. The ASM identifies areas

of high, moderate, low and very low probability for intact archaeological resources. VA shall follow the ASM for identification of buried historic properties.

- i. VA shall submit a negative finding form if no sites are found.
  - 1. VA shall develop a negative findings form in consultation with SHPO and include the final form as part of the CHRP. If finalized prior to the completion of the CHRP and SHPO has approved the form, VA may use the form for DMP investigations.
- b. Evaluation and Avoidance/Mitigation
  - i. If potentially eligible resources are found while monitoring, VA shall follow the ASM methodology.
  - ii. If archaeological resources are found while conducting Buried Site Testing, a qualified archaeologist shall recommend to VA whether the discovery is eligible for listing in the NRHP by evaluating it in accordance with 36 CFR § 60.4.
  - iii. If VA finds that the resource is not an historic property, and if SHPO concurs or does not respond within 30 days, VA may proceed without further review.
  - iv. If VA determines that the resource is an historic property, VA shall seek to avoid it. If VA cannot avoid the resource, VA shall prepare and implement a data recovery plan specific to the resource.
  - v. SHPO and interested Consulting Parties shall be afforded the opportunity to review a summary of work describing the evaluation, finding of effect, and the data recovery plan. However, these reports shall not be posted to the DMP website due to the protected and sensitive nature of archaeological information.
  - vi. Final reporting shall be done only after all work has been completed, with SHPO/Consulting Party review.

### VIII. DISPUTE RESOLUTION

- a. Should a Signatory object in writing to the implementation of any stipulation(s) of this PA, VA shall consult with that party or parties to resolve the objection. If VA determines that such objection cannot be resolved, VA shall:
  - i. Forward all documentation relevant to the dispute, including VA's proposed resolution, to the ACHP. ACHP shall provide VA with its advice on the resolution of the objection within 30 days of receiving adequate documentation.
    - 1. Adequate documentation shall include a copy of this PA, the written objection of the Signatory, VA's response to the objection, and any supporting documentation.
  - ii. VA shall take into account any advice or comments from the ACHP in determining a final decision on the dispute.
  - iii. VA shall document its final decision and notify the Signatories of it. VA shall then proceed in accordance with its final decision. VA shall post its final decision(s) on the DMP website.
- b. VA shall carry out all other actions subject to the terms of this PA that are not the subject of the dispute without interruption.

### IX. AMENDMENT AND TERMINATION

a. This PA may be amended if any Signatory requests an amendment and it is agreed to in writing by all Signatories. The amendment shall go into effect on the date of the signature by the final Signatory and filed with the ACHP.

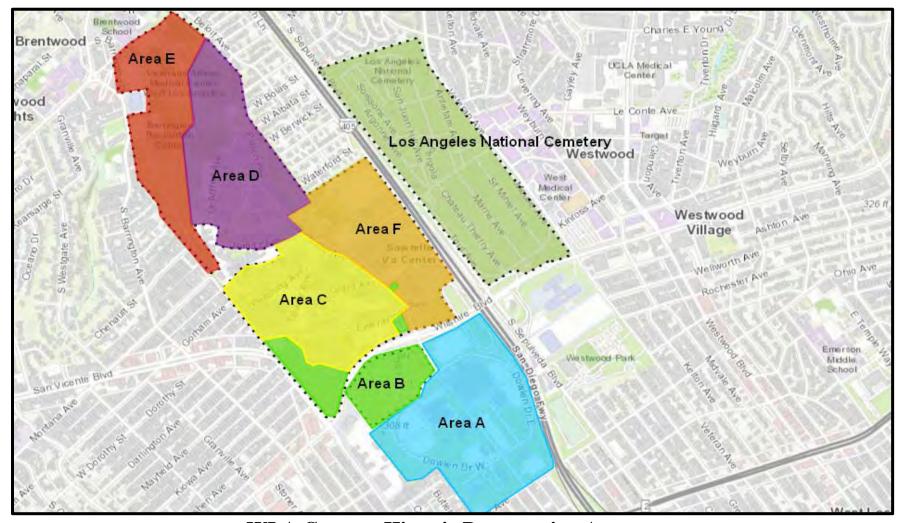
- i. If any Signatory to this PA determines that its terms shall not or cannot be carried out, that party shall immediately consult with the other Signatories to attempt to develop an amendment.
- ii. If within 60 days an amendment cannot be reached, any Signatory may terminate the PA upon written notification to the other Signatories. VA shall post notice of a termination on the DMP website.
- b. Upon termination of this PA, VA shall either consult to execute another agreement or request ACHP comments, pursuant to 36 CFR § 800.6(c)(8). This PA may be terminated without further consultation by the execution of a subsequent agreement that explicitly terminates or supersedes this PA.
- c. Termination of the PA shall require VA to comply with 36 CFR Part 800, *et seq.*, as amended for any new DMP projects that do not have an agreed effect determination, in keeping with Stipulations IV-VI.

### X. ADMINISTRATION AND DURATION

- a. This PA shall be effective on the date of the signature by the final Signatory and filed with the ACHP.
- b. This PA shall be executed in counterparts, with a separate page for each Signatory. VA shall post a complete copy of the executed PA, including all signatory pages and Attachments, to the DMP website.
- c. This PA shall remain in effect for a period of 15 years from the date of execution, unless it is terminated prior to that date. No later than 12 months prior to expiration of the PA, VA may initiate consultation to determine if the PA should be allowed to expire or whether it should be amended for an additional term, per Stipulation IX. Unless the Signatories unanimously agree on an extension, this PA shall automatically expire and have no further force or effect in accordance with the stipulated timetable.

**EXECUTION AND IMPLEMENTATION** of this PA evidences that VA has afforded the ACHP a reasonable opportunity to comment on the undertaking and its effects on historic properties, that VA has taken into account the effects of the undertaking on historic properties, and that VA has satisfied its NHPA responsibilities.

# Attachment A: Campus Historic Preservation Areas and Preservation Priorities



**WLA Campus Historic Preservation Areas** 

### **WLA VA NRHD Preservation Priorities**

Preservation Priorities of the WLA VA NRHD on the WLA Campus						
1	2	3				
Building 13	Building 33	Building 14				
Building 20	Building 90	Building 46				
Building 23	Building 91	Building 83				
Building 66	Building 111	Building 114				
Building 116	Building 156	Building 115				
8	Building 158	Building 117				
Building 157	Building 199	Building 222				
Building 211	Building 205	Building 224				
Building 218	Building 206	Building 236				
Building 226	Building 207	Building 259				
Building 258	Building 208	Building 264				
Ohio Avenue Gate Posts	Building 209	Building 292				
	Building 210	Building 297				
Palm Grove	Building 212	Heroes Golf Course				
Fan-shaped Road Systems &	Building 213	General Greenspaces				
Building Relationships	Building 214	Stone Fence & Chimney (B23)				
	Building 215					
	Building 217					
	Building 218					
	Building 220 with Memorial to					
	Women Veterans					
	Building 256					
	Building 257					
	Building 295					
	Building 300					
	National Veterans Park					
	Lawn West on Bonsall on the					
	South Campus					
	MacArthur Field					

The following buildings, objects, structures, and landscapes are located within the boundaries of the WLA VA NRHD but do not contribute to the district:

- 12
- 44
- 63
- 83
- 104
- 113
- 233
- 249
- 299
- 301

- 303
- 305
- 306
- 307
- 308
- 309
- 310
- 311
- 312
- 315
- 318
- 319
- 325
- 326
- 327
- 329
- 333
- 336
- 337
- 339
- 340
- 346
- 06
- 508
- 509
- 510
- 511512
- T79
- T84
- Jackie Robinson Stadium & associated structures
- Japanese Garden

## **Appendix C. NHPA Consultation Process**

Appendix C contains the following materials:

- 1. Checklist for Substitution, adapted for this undertaking from *NEPA and NHPA: A Handbook for Integrating NEPA and Section 106* (Council on Environmental Quality Executive Office of the President and the Advisory Council on Historic Preservation, 2013).
- Memorandum to file from Ian Musa, Concourse Federal Group, documenting mailing of letters via USPS to 21 recipients and electronic email to 23 recipients on May 19, 2017, inviting participation in consultation regarding impacts to historic properties
- 3. Copy of May 19, 2017 email invitation to Consulting Parties
- 4. Sample copy of invitation letter mailed on May 19, 2017 to Consulting Parties
- 5. Responses to May 19, 2017 invitation to consult:
  - a. Response from LaShanda Maze, 1887 Fund, undated
  - Response from John Tommy Rosas, Tongva Ancestral Territorial Tribal Nation, dated May 19, 2017
  - c. Response from Curtis Mack, Veterans Park Conservancy, dated May 22, 2017
  - d. Response from Tom McCulloch, ACHP, dated May 31, 2017
  - e. Response from Robert F. Dorame, Gabrielino Tongva Indians of California, dated June 12, 2017
  - f. Response from Ed Carroll, SHPO, dated June 21, 2017
  - g. Response from Adrian Scott Fine, Los Angeles Conservancy, dated June 30, 2017
- 6. Letter from Julianne Polanco, SHPO, dated June 11, 2017, to Ann Brown, GLAHS Director, providing initial comments and questions
- 7. Letter from Ann Brown, GLAHS Director, dated October 11, 2017, to Julianne Polanco, SHPO, responding to the letter from June 11, 2017
- 8. Email invitation from Ann Brown, GLAHS Director, dated October 30, 2017, to Consulting Parties for the November 29, 2017 consultation working session
- 9. Agenda and presentation materials from the November 29, 2017 consultation working session
- 10. Letter from Ann Brown, GLAHS Director, dated February 26, 2018, to Ed Carroll, SHPO, summarizing consultation efforts and requesting SHPO inputs
- 11. Letter from Ed Carroll, SHPO, dated April 12, 2018, to Ann Brown, GLAHS Director, responding to VA's request for comments
- 12. Letter from Ann Brown, GLAHS Director, dated September 27, 2018, to Thomas Tortez, Torres Martinez Desert Coahuilla Indians, extending an invitation to consult
- 13. Letter from Ann Brown, GLAHS Director, dated September 27, 2018, to Joseph Ontiveros, Soboba Band of Luiseno Indians, extending an invitation to consult

- 14. Letter from Meghan Flanz, Executive Director, WLA Campus Draft Master Plan, dated October 25, 2018, to Consulting Parties requesting comments on the draft PA
- 15. Presentation materials from the November 15, 2018 meeting with Consulting Parties on the draft PA

### CHECKLIST FOR SUBSTITUTION

WLA Campus Draft Master Plan

ACTION	YES	NO	COMMENTS
Notification		•	
Did VA notify in advance the SHPO and the ACHP of its intent to use the NEPA process for Section 106 purposes?	X		See Section 7.2.1.
Is the notification correspondence included in the Draft PEIS or appendices?	X		See Appendix C.
Identification of Consulting Parties	**	1	la a : 500
Is the effort to identify consulting parties described in the Draft PEIS?	X		See Section 7.2.2.
Is a list of the consulting parties provided in the Draft PEIS?	X		See Section 7.2.2.
Are all consulting parties included? (Indian tribes, local governments, applicants, and/or other consulting parties)	X		See Section 7.2.2. SHPO concurred with VA's efforts to identify Consulting Parties in a letter dated July 11, 2017. On October 1, 2018, VA reviewed available documentation and invited two federally recognized tribes to participate. These tribes had not responded as of November 26, 2018.
Has VA reviewed and responded to all requests to be consulting parties? Has the agency documented the exchange in its administrative record?	X		See Section 7.2.2 and Appendix C.
Identification of Historic Properties		1	
Is the effort to identify historic properties of all types (buildings, structures, objects, districts, and sites) described, including the Area of Potential Effects and the methodology for investigation? If no, has VA disclosed its intent to phase the identification and assessments?	X		See Section 3.3.2.1.  VA consulted with SHPO, ACHP, and local Native American entities to develop and finalize the <i>Archeological Sensitivity Model</i> – <i>Veterans Affairs West Los Angeles Campus Master Plan</i> . This model will be used to identify potential archeological deposits.
Is the effort to identify historic properties commensurate with the assessment of other environmental factors?	X		The Keeper of the National Register of Historic Places listed the Wadsworth Chapel in 1972, the Streetcar Depot in 1972, and the WLA VA NRHD in 2014. VA conducted additional analysis of all WLA Campus built resources in 2017 (Row 10 Historic Preservation Solutions, LLC, 2018a) (Row 10 Historic Preservation Solutions, LLC, 2018b). Although suggestions were made concerning the WLA VA NRHD, no additional built resources eligible for listing in the NRHP were identified.

In 2010, 2012, and 2014, VA solicite information from the California Nati American Heritage Commission and Native American tribes concerning Traditional Cultural Properties and/o sacred sites located on the grounds of WLA Campus. No such properties widentified. VA conducted additional analysis into the presence of TCPs or to any identified community on the Vampus in 2017. No such properties identified (Row 10 Historic Preserva Solutions, LLC, 2017).  VA is phasing identification of effect archeological properties in accordan 36 CFR § 800.4(b)(2). VA consulted SHPO, ACHP, and Native American to develop and finalize the Archeolog Sensitivity Model – Veterans Affairs Los Angeles Campus Master Plan (I Cultural Resources Management, 20 This model will be used to identify parchaeological deposits.  Are determinations of eligibility for the National Register of Historic Places (NRHP) clearly stated?  Can a layman understand the characteristics of each historic property and why it is significant (eligible for the NRHP) and retains integrity?  Has one of the following Section 106 effect findings for the undertaking been clearly stated?  In the May 19, 2017, notification/ini letter, VA notified all invited Consultation of the potential to affect historic properties affected	ACTION	ACTION YES NO COMME	NTS
VA is phasing identification of effect archeological properties in accordan 36 CFR § 800.4(b)(2). VA consulted SHPO, ACHP, and Native American to develop and finalize the Archeological properties in accordan 36 CFR § 800.4(b)(2). VA consulted SHPO, ACHP, and Native American to develop and finalize the Archeological separation of eligibility for the National Register of Historic Places (NRHP) clearly stated?  Can a layman understand the characteristics of each historic property and why it is significant (eligible for the NRHP) and retains integrity?  Has one of the following Section 106 effect findings for the undertaking been clearly stated?  VA is phasing identification of effect archeological properties in accordan 36 CFR § 800.4(b)(2). VA consulted SHPO, ACHP, and Native American to develop and finalize the Archeological deposits.  See Section 3.3.2.1.  See Section 3.3.2.1.  In the May 19, 2017, notification/iniletter, VA notified all invited Consulted Parties that the proposed undertaking Parties that the proposed undertaking		information from the Cal American Heritage Common Native American tribes of Traditional Cultural Proposacred sites located on the WLA Campus. No such pidentified. VA conducted analysis into the presence to any identified commun Campus in 2017. No such identified (Row 10 History).	ifornia Native mission and local oncerning perties and/or e grounds of the properties were I additional e of TCPs related nity on the WLA th properties were
National Register of Historic Places (NRHP) clearly stated?  Can a layman understand the characteristics of each historic property and why it is significant (eligible for the NRHP) and retains integrity?  Has one of the following Section 106 gffect findings for the undertaking been clearly stated?  X See Section 3.3.2.1.  In the May 19, 2017, notification/initi		VA is phasing identificat archeological properties if 36 CFR § 800.4(b)(2). V. SHPO, ACHP, and Native to develop and finalize the Sensitivity Model – Veter Los Angeles Campus Mac Cultural Resources Mana This model will be used to archaeological deposits.	in accordance with A consulted with we American tribes are Archeological wans Affairs West ster Plan (Duke agement, 2018).
Can a layman understand the characteristics of each historic property and why it is significant (eligible for the NRHP) and retains integrity?  Has one of the following Section 106 effect findings for the undertaking been clearly stated?  X See Section 3.3.2.1.  In the May 19, 2017, notification/initiation/	ational Register of Historic Places	Register of Historic Places	
Has one of the following Section 106 effect findings for the undertaking been clearly stated?  In the May 19, 2017, notification/ini letter, VA notified all invited Consultable Parties that the proposed undertaking	an a layman understand the naracteristics of each historic property and why it is significant (eligible for the	man understand the X See Section 3.3.2.1. stics of each historic property t is significant (eligible for the	
<ul> <li>No historic properties adversely affected</li> <li>Historic properties adversely affected</li> <li>Due to the breadth of projects consider for this undertaking, VA is phasing assessment in accordance with 36 Cl 800.5(a)(3).</li> <li>VA stated the potential for adverse et to historic properties as a result of the undertaking at public scoping meeting. June 7, 8, and 9, 2017. A copy of the letter is included in Appear.</li> </ul>	as one of the following Section 106 fect findings for the undertaking been early stated?  No historic properties affected  No historic properties adversely affected	In the May 19, 2017, notified all involved?  In the May 19, 2017, notified all involved?  Storic properties affected historic properties adversely ed ric properties adversely affected  Due to the breadth of profor this undertaking, VA assessment in accordance 800.5(a)(3).  VA stated the potential for to historic properties as a undertaking at public scool June 7, 8, and 9, 2017.	vited Consulting undertaking had toric properties. A ded in Appendix vijects considered is phasing with 36 CFR §  or adverse effects result of the ping meetings held a copy of the

ACTION	YES	NO	COMMENTS
If adverse effects may result, is the	X		See Section 4.3.1.
application of the criteria of adverse			
effect described?			
Was all of the above information	X		VA stated the potential for adverse effects
presented during scoping meetings and/or			to historic properties as a result of the
other public and stakeholder outreach?			undertaking at public scoping meetings held
			June 7, 8, and 9, 2017. A copy of the
			meeting presentation and meeting transcripts are included in Appendix C.
			transcripts are included in Appendix C.
			The November 29, 2017, consultation
			included discussion of the level of effect of
			the alternatives on historic properties. A
			copy of the meeting agenda and
			presentation is included in Appendix C.
Consultation and Public Involvement		1	
Is the SHPO concurrence with eligibility	X		The CA SHPO concurred with VA's historic
determinations documented? Is the			property identification efforts and intent to
documentation included in the document			phase archaeological identifications in a
and appendices?			letter dated July 11, 2017 (included in
Is the SHPO concurrence with the Section	X		Appendix C).  SHPO concurred with VA's findings
106 effect finding documented? Is the	Λ		concerning adverse effects to built resources
correspondence included?			in a letter dated July 11, 2017. This letter is
l same parameters			included in Appendix C.
			SHPO commented on the draft
			Archeological Sensitivity Model – Veterans
			Affairs West Los Angeles Campus Master
			Plan on April 24, 2018. VA finalized the
			model in accordance with comments
			received from the SHPO, ACHP, and
			Native American tribes and distributed the
Has an adequate opportunity for	X		final copy on June 27, 2018.  VA initiated consultation on May 19, 2017.
consulting with consulting parties been	Λ		VA lilitiated Consultation on May 19, 2017.
provided prior to the release of the Draft			VA hosted public scoping meetings on June
PEIS? Is all relevant documentation			7, June 8, and June 9, 2017. VA accepted
(subject to confidentiality) included?			comments for a period of 30 days following
•			the meetings.
			On October 30, 2017, VA invited all
			Consulting Parties to participate in a
			November 29, 2017, consultation. This
			meeting provided opportunity for in-person
			and digital participation. VA requested comments following this meeting and again
			in a letter dated February 26, 2018.
			11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTION	YES	NO	COMMENTS
			VA consulted with SHPO, ACHP, and
			Native American tribes concerning
			development and finalization of the
			Archaeological Sensitivity Model.
Do any of the consulting parties substantively disagree with VA's determinations of eligibility or findings of			VA released a draft of the PA to Consulting Parties for review on October 25, 2018. VA hosted a working session to discuss the draft PA on November 15, 2018. VA has requested comments from Consulting Parties by the end of the public comment period on the Draft PEIS.  VA has determined implementation of the Draft Master Plan has the potential to adversely affect historic properties. Due to
effect? If so; is the process for seeking agreement on those issues disclosed?			the nature of this undertaking, VA will use a phased approach to assess the undertaking's effects to historic properties, pursuant to 36 CFR § 800.5(a)(3).
			No objections have been received
			concerning VA's determinations of
			eligibility or findings of effect. SHPO
			concurred with VA's findings regarding built resources on April 12, 2018.
			VA has chosen to phase identification of archeological resources through the ASM. VA consulted on this model with SHPO, ACHP, and tribal entities prior to finalization in June 2018. Protocols for eligibility determinations, evaluations of effect, and measures to resolve are included in the draft PA (see Appendix B).
			Documentation is included in Appendix C.
If a National Historic Landmark (NHL)		X	There are no National Historic Landmarks
may be affected by the undertaking, has the agency notified the National Park Service (pursuant to 36 CFR § 800.10(c))			within the APE for this undertaking.
and invited its participation where there			
may be an adverse effect? Is all relevant			
correspondence included?  Does the document cover sheet or	X		Consideration of NHPA and the NEPA
distribution letter clearly indicate that the	Λ		substitution process also was included in the
DEIS/EA also documents the Section 106			distribution letter to agencies and
process?			organizations such as SHPO.
Have historic preservation concerns	X		Historic preservation concerns have been
expressed by members of the public been	1		expressed by the Tongva Ancestral

ACTION	YES	NO	COMMENTS
addressed? If appropriate, have such			Territorial Tribal Nation, Gabrielino
commenters been invited to be consulting			Tongva Indians of California, Gabrielino
parties in the Section 106 review?			Band of Mission Indians, SHPO, ACHP,
F			and Los Angeles Conservancy. Each was
			invited to participate as a Consulting Party.
			invited to participate as a consuming rarry.
			The Brentwood Historical Society
			suggested a potential mitigation measure at
			the scoping meeting held June 7, 2017.
			Their comment was considered in
			developing the draft PA. The group was not
			invited to participate as a Consulting Party
			due to the boundaries of the APE but were
			included as a stakeholder to the NEPA
			process following participation in this
			scoping meeting.
Have the scoping notices and other public	X		See Chapter 7 and Appendix A.
meeting notices included information			
about Section 106?			
Development of Alternatives or Measures to		Minin	
Is the development and evaluation of	X		VA has reviewed all alternatives for
alternatives or modifications that could			opportunities to avoid and/or minimize
avoid or minimize adverse effects to			adverse effects to historic properties.
historic properties documented?			Avoidance is not possible for all
			alternatives.
			WA has in the dark manner in the dark DA
			VA has included measures in the draft PA
			to avoid and/or minimize effects to historic
			properties, notably the development of a
			Campus Historic Resource Plan that will
			contain specific guidance on ways to avoid
			and/or minimize effects through design of
			rehabilitations, renovations, and new
			construction.
Where appropriate, have mitigation	X		The draft PA includes proposed mitigation
measures been proposed?			measures. See summary in Section 7.2.
			The draft PA is included in Appendix B.
Is the consultation with consulting parties	X		See summary in Section 7.2.
about avoidance, minimization, or			
mitigation measures documented? Is all			
relevant documentation (subject to			
confidentiality) included in the Draft			
PEIS or appendices?			
Steps to Conclusion	•		
Is the consultation with consulting parties	X		See summary in Section 7.2. and Appendix
about avoidance, minimization, or			C.
mitigation measures documented? Is all			
relevant documentation (subject to			

ACTION	YES	NO	COMMENTS
confidentiality) included in the Draft			
PEIS or appendices?			
If the preferred alternative could			A copy of the draft PA is included for
adversely affect historic properties, is one			review in Appendix B. VA intends to
of the following strategies for completing			execute the PA following review of public
the Section 106 process identified?			comments on the Draft PEIS, and additional
Execution of a Memorandum of			consultation with Consulting Parties. VA
Agreement (MOA) or a			notified Consulting Parties of the intent to
Programmatic Agreement (PA)			execute a ROD in the consultation held
<ul> <li>Incorporation of the binding</li> </ul>			November 29, 2017, and in documentation
commitment to mitigation measures			distributed December 1, 2017.
in the Record of Decision			
<ul> <li>Termination, formal ACHP</li> </ul>			
comments pursuant to 36 CFR §			
800.7, and response by head of the			
agency			
If incorporating binding commitment to			VA intends to execute a PA, not incorporate
mitigation measures in the			commitment to measures solely in the
ROD, does the ROD include the			ROD. The executed PA will be included as
following:			an appendix to the ROD.
Commitments clearly identifying who			
will do what by when			
• Administrative provisions including:			
<ul> <li>Process for continued</li> </ul>			
consultation during			
implementation (for example,			
regarding design review, data			
recovery, development of			
mitigation products)			
o Deadlines/timelines for			
implementation			
o Post-review discoveries			
o Dispute resolution process			
o Contingency for changes to the			
undertaking referencing 36 CFR			
§ 800.8(c)(5)			
Implementation	<u> </u>	1	
Is the agency prepared to carry out the			Following review of comments on the Draft
commitments made in:			PEIS and additional consultation with
Memorandum of Agreement or a			Consulting Parties, VA intends to execute a
Programmatic Agreement,			PA. This PA shall be subject to the <i>Anti-</i>
Record of Decision, or			Deficiency Act (31 U.S.C. Section 1341).
Response by head of the agency to			VA's responsibility to implement the PA is
formal ACHP comments following			contingent upon the availability of
termination?			appropriated funds from which payment, if
			any, can be made. Should funds not be
			available to allow VA to meet its
			responsibilities, VA shall resume
			consultation to resolve unfunded measures

November 2018

ACTION	YES	NO	COMMENTS
			pursuant to 36 CFR § 800.4 through §
			800.7, as applicable.

West Los Angeles Draft Master Plan Environmental Impact Statement / Environmental Impact Report

# Concourse Federal Group

## **Memorandum**

Date: May 19, 2017

From: Ian Musa, Program Manager, Concourse Federal Group

Subj: Certification of Mailing – Substitution Notice Letters and Invitation to Participate in Consultation via United States Postal Service and Electronic Mail

To: File – Record Keeping Purposes

This memorandum serves as certification that twenty-one (21) letters, containing
the following subject line: Redevelopment of the VA Greater Los Angeles
Healthcare System - West Los Angeles Campus in accordance with the Draft
Master Plan: Use of NEPA Analysis Procedures for NHPA Compliance, and
Invitation to Participate in Consultation Regarding Impacts to Historic Properties,
were issued, via United States Postal Service (USPS) on Friday, May 19, 2017 to
the below entities:

Addressee	Organization
Ms. Julianne Polanco	California State Historic Preservation Office (California Office of Historic Preservation (OHP))
Mr. Ed Carroll	California State Historic Preservation Office (California Office of Historic Preservation (OHP))
Mr. John Fowler	Advisory Council on Historic Preservation (ACHP)
Mr. Chris Daniel	Advisory Council on Historic Preservation (ACHP)
Judge Cynthia Gomez	California Native American Heritage Commission
Mr. Ken Bernstein	City of Los Angeles, Department of City Planning, Office of Historic Resources
Mr. David Brown	National Trust for Historic Preservation (NTHP)
Mr. Adrian Scott Fine	Los Angeles Conservancy
Ms. Leah Jackson	_ 1887 Fund
Mr. David Marshall	California Preservation Foundation
Ms. Amy Essington	Historical Society of Southern California
Mr. Todd Gaykowski	Los Angeles City Historical Society
Ms. Denise Wills	Society for California Archaeology
Mr. Curtis Mack	Veterans Park Conservancy
Mr. Ron Andrade	Los Angeles City/County Native American Indian Commission
Board of Supervisors	Los Angeles County Board of Supervisors
Chair Andrew Salas	Gabrielino Band of Mission Indians
Chair Robert Dorame	Gabrielino Tongva Indians of California Tribal Council
Chair Sandonne Goad	Gabrielino/Tongva Nation
Chair Anthony Morales	Gabrielino/Tongva San Gabriel Band of Mission Indians
Chair Bernie Acuna	Gabrielino-Tongva Tribe

2. This memorandum serves as certification that electronic mail was sent to twenty-three (23) recipients, listed below. The electronic notification contained the following subject line: Redevelopment of the VA Greater Los Angeles Healthcare System- West Los Angeles Campus in accordance with the Draft Master Plan: Use of NEPA Analysis Procedures for NHPA Compliance, and Invitation to Participate in Consultation Regarding Impacts to Historic Properties.

### West Los Angeles Draft Master Plan Environmental Impact Statement / Environmental Impact Report

Addressee	Organization	Email Address
Ms. Julianne Polanco	California State Historic Preservation Office (California Office of Historic Preservation (OHP))	julianne.polanco@parks.ca.gov
Mr. Ed Carroll	California State Historic Preservation Office (California Office of Historic Preservation (OHP))	Ed.Carroll@parks.ca.gov
Mr. John Fowler	Advisory Council on Historic Preservation (ACHP)	jfowler@achp.gov
Mr. Chris Daniel	Advisory Council on Historic Preservation (ACHP)	cdaniel@achp.gov
Judge Cynthia Gomez	California Native American Heritage Commission	nahc@nahc.ca.gov
Mr. Ken Bernstein	City of Los Angeles, Department of City Planning, Office of Historic Resources	ken.bemstein@lacity.org
Mr. David Brown	National Trust for Historic Preservation (NTHP)	dbrown@savingplaces.org
Ms. Elizabeth Merritt	National Trust for Historic Preservation (NTHP)	emerritt@savingplaces.org
Mr. Adrian Scott Fine	Los Angeles Conservancy	afine@laconservancy.org
Ms. Leah Jackson	1887 Fund	leah@1887fund.org
Mr. David Marshall	California Preservation Foundation	cpf@californiapreservation.org
Ms. Amy Essington	Historical Society of Southern California	hssc@socalhistory.org
Mr. Todd Gaykowski	Los Angeles City Historical Society	info@lacityhistory.org
Ms. Denise Wills	Society for California Archaeology	office@scahome.org
Mr. Curtis Mack	Veterans Park Conservancy	info@veteransparkconservancy.org
Mr. Ron Andrade	Los Angeles City/County Native American Indian Commission	randrade@css.lacounty.gov
Board of Supervisors	Los Angeles County Board of Supervisors	executiveoffice@bos.lacounty.gov
Chair Andrew Salas	Gabrielino Band of Mission Indians	gabrielenoindians@yahoo.com
Chair Robert Dorame	Gabrielino Tongva Indians of California Tribal Council	gtongva@verizon.net
Chair Sandonne Goad	Gabrielino/Tongva Nation	sgoad@gabrielino-tongva.com
Chair Anthony Morales	Gabrielino/Tongva San Gabriel Band of Mission Indians	gttribalcouncil@aol.com
Chair Bernie Acuna	Gabrielino-Tongva Tribe	bacuna1@gabrielinotribe.org
Mr. John Tommy Rosas	Tongva Ancestral Territorial Tribal Nation	tattnlaw@gmail.com

3. If you have any questions or concerns, please contact lan Musa at (215) 359-5976.

Program Manager

S 19 2017

From: VHAGLAMasterPlan
To: VHAGLAMasterPlan

Subject: Invitation: Consultation -- VA EIS/EIR for West Los Angeles Campus

Date: Friday, May 19, 2017 3:23:59 PM

Attachments: Electronic Notification -- Invited Consulting Parties -- VA EIS EIR (5.19.17).pdf

#### Good Afternoon,

Please find attached a letter for redevelopment of the VA Greater Los Angeles Healthcare System - West Los Angeles Campus in accordance with the Draft Master Plan: Use of NEPA analysis procedures for NHPA compliance, and invitation to participate in consultation regarding impacts to historic properties. Individual copies of this letter were also sent out, via United States Postal Service, today, Friday, May 19, 2017.

Please contact me at <a href="mailto:VHAGLAMasterPlan@va.gov">VHAGLAMasterPlan@va.gov</a> or VA Greater Los Angeles Healthcare System, Attn: EIS/EIR, 11301 Wilshire Boulevard, Building 500/Room 6409, Los Angeles, California 90073 if you have any questions about this important initiative.

Very Respectfully,

Ann R. Brown (by direction)

Director

Greater Los Angeles VA Healthcare System



### DEPARTMENT OF VETERANS AFFAIRS Greater Los Angeles Healthcare System 11301 Wilshire Boulevard Los Angeles, CA 90073

In Reply Refer To: 691/00PA

May 19, 2017

Julianne Polanco State Historic Preservation Officer California Office of Historic Preservation 1725 23rd Street, Suite 100 Sacramento, CA 95816 West Los Angeles Healthcare Center 11301 Wilshire Boulevard Los Angeles, CA 90073 (310) 478-3711

RE: Redevelopment of the VA Greater Los Angeles Healthcare System-West Los Angeles Campus in accordance with the Draft Master Plan: Use of NEPA Analysis Procedures for NHPA Compliance, and Invitation to Participate in Consultation Regarding Impacts to Historic Properties

Dear Ms. Polanco,

The West Los Angeles campus, 11301 Wilshire Boulevard, Los Angeles, California (WLA) is part of the larger U.S. Department of Veterans Affairs (VA) Greater Los Angeles Healthcare System (GLAHS) that serves over 90,000 Veterans in Kern, Los Angeles, San Luis Obispo, Santa Barbara, and Ventura Counties. The WLA campus is located at the intersection of Sepulveda Boulevard, Interstate 405 (also known as the San Diego Freeway), and Wilshire Boulevard in the Brentwood neighborhood, and encompasses approximately 388 acres. It is one of the largest medical centers in the VA system, providing a full range of medical services, including state-of-the-art hospital and outpatient care, rehabilitation, residential care, and long-term care services to eligible Veterans.

Public Law 114-226, the West Los Angeles Leasing Act of 2016, enables VA to enhance services on the WLA campus with the goal of providing permanent supportive housing for Veterans, specifically the chronically homeless, severely disabled, aging, and female Veteran populations, and providing related services for these groups and all Veterans in the greater Los Angeles area. VA intends to make supportive housing and other services available on campus allowing Veterans the choice to live on- or off-campus, and to have access to a more welcoming and healing environment in which to live and receive the care, services, and benefits to which they are entitled. These goals will be accomplished through the implementation of the revised *Department of Veterans Affairs Greater Los Angeles Draft Master Plan* released in January 2016 and completion of several improvement projects (the Federal Action/Undertaking). The Draft Master Plan is available online: <a href="http://www.losangeles.va.gov/MasterPlan/">http://www.losangeles.va.gov/MasterPlan/</a>. VA anticipates this undertaking will impact elements of the natural, built, and cultural environments.

To adequately analyze and address the anticipated impacts of the proposed undertaking, VA intends to prepare a programmatic Environmental Impact Statement (EIS)/Environmental Impact Report (EIR) in accordance with the National Environmental Policy Act (NEPA) and California Environmental Quality Act (CEQA); the National Historic Preservation Act (NHPA); and other federal laws, Executive Orders, and VA policies. The environmental effects to be addressed include those identified in 40 CFR 1508.8: historic properties and cultural resources; aesthetics; air quality; geology and soils; hydrology and water quality; wildlife and habitat; noise; land use; floodplains, wetlands, and coastal zone management; socioeconomics; community services; solid and hazardous materials; transportation, including parking

and traffic; utilities; environmental justice; and public involvement whether direct, indirect, or cumulative. Both beneficial and adverse impacts of the proposed action will be analyzed.

VA has identified several potential action alternatives to be analyzed:

- Alternative A would relocate current occupants and services to another existing building(s), completely renovate and retrofit the vacated building(s) for a new function and service provider;
- Alternative B would relocate current occupants and services to another building(s), completely demolish the vacated building(s), with no replacement of the demolished building(s);
- Alternative C would relocate current occupants and services to another building(s), completely renovate and retrofit of the building(s)s, and relocate occupants back into the newly renovated building(s);
- Alternative D would relocate current occupants and services to another existing building(s), completely demolish the vacated building(s) and construct a new building(s);
- Alternative E is No Action, used to compare the "status quo" to the action alternatives.

VA anticipates that issues addressed in assessing impacts of the alternatives may affect the physical plant of the West LA VAMC, most of which is a designated historic district. The campus also has buildings individually listed in the National Register of Historic Places and archeological sites. There may be additional archeological sites not yet identified. VA intends to use its NEPA analysis process to consider impacts to historic properties otherwise done under Section 106 of the NHPA (54 USC 306108 and 36 CFR Part 800). This process, referred to as substitution, is described in 36 CFR 800.8(c) and the Handbook for Integrating NEPA and Section 106: http://www.achp.gov/docs/NEPA\_NHPA\_Section\_106\_Handbook\_Mar2013.pdf.

VA is initiating the scoping process to identify issues and concerns to be addressed in the programmatic EIS. Federal, state, tribal, and local agencies; environmental and preservation organizations; businesses; other interested parties; and the general public are encouraged to submit written comments identifying their specific issues or topics of environmental concern. VA will hold several public scoping meetings on June 7, 2017, June 8, 2017, and June 9, 2017, in the Wadsworth Theater on the West LA Campus. Comments on VA's notice of intent to prepare a programmatic EIS and potential impacts of the proposed action can be emailed to <a href="mailto:VHAGLAMasterPlan@va.gov">VHAGLAMasterPlan@va.gov</a>, refer to: "WLA Notice of Intent to Prepare a Programmatic EIS." Comments may also be mailed to VA Greater Los Angeles Healthcare System, Attn: EIS/EIR, 11301 Wilshire Boulevard, Building 500/Room 6409, Los Angeles, California 90073.

Your organization has been recognized as having an interest in historic properties. In addition to the scoping meetings described above, you are invited to participate in the substitution process as a Consulting Party to discuss measures to avoid, minimize, and/or mitigate any adverse effects to historic properties resulting from redevelopment of the West LA VAMC. I invite you to attend any of the scoping meetings listed above to discuss historic properties associated with the West LA VAMC and the effects of this undertaking on them.

Please return the attached form or an independent letter of indicating whether your organization will participate in the substitution process via email to <a href="VHAGLAMasterPlan@va.gov">VHAGLAMasterPlan@va.gov</a> or in hard copy to VA Greater Los Angeles Healthcare System, Attn: EIS/EIR,, 11301 Wilshire Boulevard, Building 500/Room 6409, Los Angeles, California 90073, reference "WLA Campus Consulting Party." Responses are requested not later than June 15, 2017, in order to adequately prepare for upcoming meetings.

Thank you for your support of Veterans and interest in historic properties. Please contact me at <a href="VHAGLAMasterPlan@va.gov">VHAGLAMasterPlan@va.gov</a> or VA Greater Los Angeles Healthcare System, Attn: EIS/EIR, 11301 Wilshire Boulevard, Building 500/Room 6409, Los Angeles, California 90073 if you have any questions about this important initiative.

Sincerely

Ann'H. Brown, FA

Director

Greater Los Angeles VA Healthcare System

### Redevelopment of the VA Greater Los Angeles Healthcare System- West Los Angeles Medical Center in accordance with the Draft Master Plan Historic Property Consulting Party Form

Please complete and return this form, or an independent letter, via email to <a href="VHAGLAMasterPlan@va.qov">VHAGLAMasterPlan@va.qov</a> or in hard copy to VA Greater Los Angeles Healthcare System, Attn: EIS/EIR, 11301 Wilshire Boulevard, Building 500/Room 6409, Los Angeles, California 90073, reference "WLA Campus Consulting Party." Responses are requested not later than June 15, 2017, in order to allow adequate time to prepare for upcoming meetings.

n:				
Point of Contact:				
	Title:			
	Address:			
	Email:			
	Telephone:			
	Website:			
	Yes, our organization would like to participate as a Consulting Party specifically focused impacts to historic properties that may result from the Redevelopment of the West LA. Please contact us through the information listed above.			
	A VAMC campus; however gh public meetings and	lines the invitation to be a Consulting Party for the Redevelopment ver, we would like to participate in the broader environmental review by receiving general information. Please contact us through the		
the WLA camp		will not participate in the environmental review process to redevelop		

# Helpful Websites Redevelopment of the WLA Campus in accordance with the Draft Master Plan

**Draft Master Plan** 

http://www.losangeles.va.gov/MasterPlan/

National Environmental Policy Act (NEPA) https://www.epa.gov/nepa

A Citizen's Guide to the National Environmental Policy Act https://ceq.doe.gov/qet-involved/citizens\_quide\_to\_nepa.html

The California Environmental Quality Act (CEQA) <a href="http://resources.ca.gov/ceqa/">http://resources.ca.gov/ceqa/</a>

National Historic Preservation Act (NHPA) http://www.achp.gov/nhpa.pdf

ACHP Regulations 36 CFR Part 800 http://www.achp.gov/regs-rev04.pdf

Protecting Historic Properties: A Citizen's Guide to Section 106 http://www.achp.gov/docs/CitizenGuide.pdf

NEPA & NHPA: A Handbook for Coordinating NEPA and Section 106 http://www.achp.gov/nepa106.html

Wadsworth Chapel National Register of Historic Places Nomination https://npgallery.nps.gov/NRHP/AssetDetail?assetID=d8b15062-ff45-468c-b0f8-5caea1056460

Streetcar Depot/Trolley Stop National Register of Historic Places Nomination <a href="https://npgallery.nps.gov/NRHP/AssetDetail?assetID=27c0e4c2-a79a-49e5-ad46-3fa445657175">https://npgallery.nps.gov/NRHP/AssetDetail?assetID=27c0e4c2-a79a-49e5-ad46-3fa445657175</a>

West Los Angeles Veterans Affairs Historic District National Register of Historic Places Nomination https://www.nps.gov/nr/feature/places/pdfs/14000926.pdf

# Parties Invited to Consult Regarding Impacts to Historic Properties Resulting from

### Redevelopment of the VA Greater Los Angeles Healthcare System-West Los Angeles Medical Center in accordance with the Draft Master Plan

1887 Fund

Advisory Council on Historic Preservation (ACHP)

California Native American Heritage Commission

California Preservation Foundation

California State Historic Preservation Officer (California Office of Historic Preservation [OHP])

California Tribes (previously invited to consult on other campus undertakings):

- -- Gabrielino Band of Mission Indians
- -- Gabrielino Tongva Indians of California Tribal Council
- -- Gabrielino Tongva Nation
- -- Gabrielino/Tongva San Gabriel Band of Mission Indians
- -- Gabrielino-Tongva Tribe
- -- Tongva Ancestral Territorial Tribal Nation

Los Angeles City Historical Society

Los Angeles City/County Native American Indian Commission

Los Angeles Conservancy

Los Angeles County Board of Supervisors

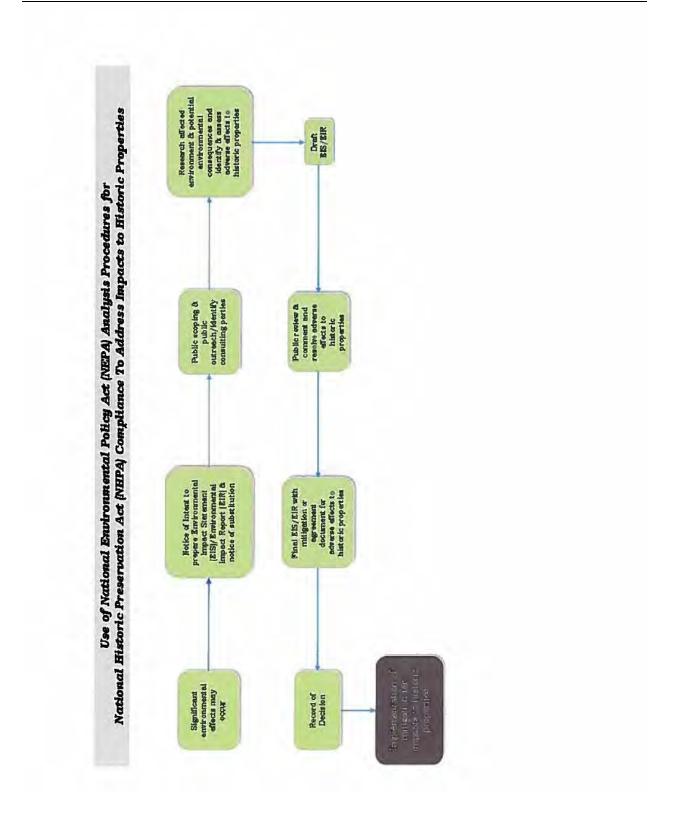
Los Angeles Office of Historic Resources - a Certified Local Government (City)

Historical Society of Southern California

National Trust for Historic Preservation (NTHP)

Society for California Archaeology

Veterans Park Conservancy



# Redevelopment of the VA Greater Los Angeles Healthcare System- West Los Angeles Medical Center in accordance with the Draft Master Plan Historic Property Consulting Party Form

Please complete and return this form, or an independent letter, via email to <a href="VHAGLAMasterPlan@va.gov">VHAGLAMasterPlan@va.gov</a> or in hard copy to VA Greater Los Angeles Healthcare System, Attn: EIS/EIR, 11301 Wilshire Boulevard, Building 500/Room 6409, Los Angeles, California 90073, reference "WLA Campus Consulting Party." Responses are requested not later than June 15, 2017, in order to allow adequate time to prepare for upcoming meetings.

Organizatio n:	1887 Fun					
Point of Contact:	LaShanda	Mare				
	Title:	Campaign Director				
	Address:	1158 26# St PMB 876				
		Santa Monica, CA 90403				
	Email:	Jashanda@ 1887 fund. org				
	Telephone:	310) 422.2181				
	Website:	www. 1887 Furd. org				
	Yes, our organization would like to participate as a Consulting Party specifically focused isidering impacts to historic properties that may result from the Redevelopment of the West LA campus. Please contact us through the information listed above.					
	VAMC campus; howe	lines the invitation to be a Consulting Party for the Redevelopment ver, we would like to participate in the broader environmental review d by receiving general information. Please contact us through the				
the WLA camp		will not participate in the environmental review process to redevelop				

From: VHAGLAMasterPlan

To: Katy Coyle; Kelly Sellers Wittie

Subject: FW: [EXTERNAL] Re: Invitation: Consultation -- VA EIS/EIR for West Los Angeles Campus

Date: Friday, May 19, 2017 4:22:40 PM

FYSA – not sure if you want me to send these.

-lan

From: Johntommy Rosas [mailto:tattnlaw@gmail.com]

Sent: Friday, May 19, 2017 1:32 PM

To: VHAGLAMasterPlan

Subject: [EXTERNAL] Re: Invitation: Consultation -- VA EIS/EIR for West Los Angeles Campus

thank you -we confirm receipt of your emailed document attachedwe look forward to consulting on this important VA project thanks it

On Fri, May 19, 2017 at 1:23 PM, VHAGLAMasterPlan < VHAGLAMasterPlan@va.gov wrote:

Good Afternoon.

Please find attached a letter for redevelopment of the VA Greater Los Angeles Healthcare System - West Los Angeles Campus in accordance with the Draft Master Plan: Use of NEPA analysis procedures for NHPA compliance, and invitation to participate in consultation regarding impacts to historic properties. Individual copies of this letter were also sent out, via United States Postal Service, today, Friday, May 19, 2017.

Please contact me at <a href="VHAGLAMasterPlan@va.gov">VHAGLAMasterPlan@va.gov</a> or VA Greater Los Angeles Healthcare System, Attn: EIS/EIR, 11301 Wilshire Boulevard, Building 500/Room 6409, Los Angeles, California 90073 if you have any questions about this important initiative.

Very Respectfully,

Ann R. Brown (by direction)
Director
Greater Los Angeles VA Healthcare System

--

### JOHN TOMMY ROSAS

TRIBAL ADMINISTRATOR
TRIBAL LITIGATOR -TATTN JUDICIAL # 0001
TONGVA ANCESTRAL TERRITORIAL TRIBAL NATION

A TRIBAL SOVEREIGN NATION UNDER THE UNDRIP AND AS A TREATY [s] SIGNATORIES RECOGNIZED TRIBE, WITH HISTORICAL & DNA AUTHENCATION ON CHANNEL ISLANDS AND COASTAL VILLAGES - AND AS A CALIFORNIA NATIVE AMERICAN TRIBE / SB18-AB 52-AJR 42-ACHP/NHPA

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### TRUTH IS OUR VICTORY AND HONOR IS OUR PRIZE >TATTN ©

### WWW.TONGVANATION.ORG

From: VHAGLAMasterPlan

To: Katy Coyle; Kelly Sellers Wittie

Subject: FW: [EXTERNAL] Historic Property Consulting Form

Date: Tuesday, May 23, 2017 9:20:31 AM

Attachments: Consult Hist Props.pdf

### As requested.

From: Curtis Mack [mailto:vetprk@gmail.com] Sent: Monday, May 22, 2017 1:49 PM

To: VHAGLAMasterPlan

Subject: [EXTERNAL] Historic Property Consulting Form

### please see attached

--

Curtis Mack
Executive Director
Veterans Park Conservancy

Tel: 310-820-5366

www.veteransparkconservancy.org

"Honoring our Veterans"
"Giving Gifts to the Gift"

Redevelopment of the VA Greater Los Angeles Healthcare System-West Los Angeles Medical Center in accordance with the Draft Master Plan Historic Property Consulting Party Form

Please complete and return this form, or an independent letter, via email to <a href="MHAGLAMasterPlan@va.gov"><u>WHAGLAMasterPlan@va.gov</u></a> or in hard copy to VA Greater Los Angeles Healthcare System, Attn: EIS/EIR, 11301 Wilshire Boulevard, Building 500/Room 6409, Los Angeles, California 90073, reference "WLA Campus Consulting Party." Responses are requested not later than June 15, 2017, in order to allow adequate time to prepare for upcoming meetings.

	5, 2017, in order to a	s Consulting Party." Responses are requested not later than June allow adequate time to prepare for upcoming meetings.
Organizatio n:	VE	TERANS PARK CONSERVANCY
	1	MACH
Point of Contact:		RATIS MACK
	Title:	EXECUTIVE DILECTOR
	Address:	1166) SANVILLANTE BLIS \$204
		Los ANGERS, CH GOVEG
	Email:	DETPRE E GUMI. COM
	Telephone:	310 - 820 - 5366
	Website:	VETER ANSPACE CONSCRIBING. ORG
		ಕ್ಷಲ್ ಗಿಲ್ಬ್ ಬ್ರಾ ion would <del>like</del> to participate as a Consulting Party specifically focused
		properties that may result from the Redevelopment of the West LA through the information listed above.
of the West LA	Our organization of VAMC campus; hough public meetings	declines the invitation to be a Consulting Party for the Redevelopment wever, we would like to participate in the broader environmental review and by receiving general information. Please contact us through the
the WLA camp		on will not participate in the environmental review process to redevelop



May 31, 2017

Ms. Ann R, Brown Director Greater Los Angeles VA Healthcare System Department of Veterans Affairs 11301 Wilshire Boulevard Los Angeles, CA 90073

Ref: Redevelopment of the VA Greater Los Angeles Healthcare System - West Los Angeles Campus Los Angeles, California ACHPConnect Log Number: 009790

#### Dear Ms. Brown:

On May 19, 2017, the Advisory Council on Historic Preservation (ACHP) received the U.S. Department of Veterans Affairs (VA) notification pursuant to Section 800.8(c) of the ACHP's regulations, "Protection of Historic Properties" (36 CFR Part 800). We appreciate receiving your notification that VA's Greater Los Angeles Healthcare System (GLAHS) will use the process and documentation required by the National Environmental Policy Act (NEPA) to comply with Section 106 of the National Historic Preservation Act, in lieu of the procedures set forth in 36 CFR §§ 800.3 through 800.6.

During the preparation of NEPA documentation, the VA must meet the standards in 36 CFR §§ 800.8(c)(1)(i) through (v) and describe its efforts in the resulting environmental document to:

- identify consulting parties either pursuant to 36 CFR § 800.3(f) or through the NEPA scoping process with results consistent with 36 CFR § 800.3(f);
- identify historic properties and assess the effects of the undertaking on such properties in a
  manner consistent with the standards and criteria of 36 CFR §§ 800.4 through 800.5. The scope
  and timing of these steps may be phased to reflect the agency official's consideration of project
  alternatives in the NEPA process;
- consult regarding the effects of the undertaking on historic properties with the California State Historic Preservation Officer (SHPO), Indian tribes and Native Hawaiian organizations that might attach religious and cultural significance to the affected historic properties, other consulting parties, and the ACHP, where appropriate, during the NEPA scoping, environmental analysis, and the preparation of NEPA documents;
- involve the public in accordance with the agency's published NEPA procedures; and
- develop and fully consider, in consultation with identified consulting parties, alternatives and proposed measures that might avoid, minimize or mitigate any adverse effects of the undertaking on historic properties and describe them in the appropriate NEPA document.

ADVISORY COUNCIL ON HISTORIC PRESERVATION

401 F Street NW, Suite 308 • Washington, DC 20001-2637 Phone: 202-517-0200 • Fax: 202-517-6381 • achp@achp.gov • www.achp.gov 36 CFR § 800.8(c)(2)(i) requires that you submit to the ACHP any draft Environmental Impact Statement (DEIS) or Environmental Impact Statement (EIS) you prepare. Inclusion of your adverse effect determination in both the DEIS/EIS and in your transmittal letter will help ensure a timely response from the ACHP regarding its decision to participate in consultation. Please indicate in your cover letter the schedule for Section 106 consultation and a date by which you require a response from the ACHP.

Should a consulting party object that the preparation of the DEIS or EIS has not met the standards described above or that the substantive resolution of the effects on historic properties proposed is inadequate, the VA must refer the matter to the ACHP. The VA cannot complete the Section 106 process without resolving such objections.

We encourage the VA to continue to utilize and apply the guidance in the publication, NEPA and NHPA: A Handbook for Integrating NEPA and Section 106, published in March 2013, and available at http://www.achp.gov/docs/NEPA NHPA Section 106 Handbook Mar2013.pdf.

Thank you for your notification pursuant to 36 CFR § 800.8(c). Should you have any questions or require additional assistance, please contact Mr. Christopher Daniel, Program Analyst at (202) 517-0223 or by e-mail at cdaniel@achp.gov and reference the ACHPConnect Log Number.

Sincerely,

Tom McCulloch, Ph.D., R.P.A.

Assistant Director

Federal Property Management Section

Office of Federal Agency Programs



Gabrielino Tongva Indians of California POB 490, Bellflower, CA 90707 gtongva@gmail.com

Robert F. Dorame 562-761-6417

Reference: 691/00PA

June 12, 2017

Ann R Brown, FACHE
Director
Department of Veterans Affairs
Greater Los Angeles Healthcare System
11301 Wilshire Boulevard
Los Angeles, CA 90073

Dear Director Brown,

I am truly sorry I couldn't attend the meetings you provided. I am still the primary care-giver for a family member so It was impossible at this time. However, this will be over shortly and this will be behind us.

Regarding the plans for expansion at the VA property in West Los Angeles, I have a long history with your campus, walking less a mile almost daily with my uncle who served in WWII from the time I was four years old until he passed. My father and uncle taught me all about fossils from the large site on the west side of the property and numerous midden sites where points and broken stone tools were on the surface back then. Pot hunters cleaned that out in the early 60s.

In early 2012 through 2015, we provided cultural consulting and native monitoring for Applied Earthworks under Coleen Hamilton. See final report. My history with the property became instrumental in preventing damage to sites when I could direct the crew from REC-Solar to take an alternate route to avoid impact through a prehistoric native site. In the beginning of this project, a midden site was overlooked because only a native monitor was required without archaeological personnel. I requested that they would need to provide archaeologists to work with me so that appropriate personnel would be present.

Due to the numerous highly sensitive locations within the area of your project, many of which I have personally observed, we request that our monitors be retained during soil disturbance, to include grubbing, trenching, asphalt and cement removal which in the past has yielded cultural resources.

Thank you for the opportunity to work to protect our ancestral cultural resources at the VA West LA and look forward to hearing from your team how your project will progress.

Sincerely, Robert Dorame Tribal Chair

Cellular: 562-761-6417 gtongva@gmail.com

From: VHAGLAMasterPlan
To: Katy Coyle; Kelly Sellers Wittie
Subject: FW: SHPO inquiry

Date: Wednesday, June 21, 2017 6:34:27 PM

Ladies,

FYSA - SHPO confirmed participation.

From: Carroll, Ed@Parks [mailto:Ed.Carroll@parks.ca.gov]

**Sent:** Wednesday, June 21, 2017 4:28 PM

To: VHAGLAMasterPlan

Subject: [EXTERNAL] RE: SHPO inquiry

Thank you Ian, I will certainly call on you for more information should I need it.

Regards, Ed

From: VHAGLAMasterPlan [mailto:VHAGLAMasterPlan@va.gov]

Sent: Wednesday, June 21, 2017 4:01 PM

To: Carroll, Ed@Parks < Ed. Carroll@parks.ca.gov >; VHAGLAMasterPlan

< <u>VHAGLAMasterPlan@va.gov</u>> **Subject:** RE: SHPO inquiry

Sir,

Good afternoon. Thank you much for confirming participation and your request for information. The Slides used during the Scoping Meetings are being published on our website this month.

Until then, I am sharing the Slides here (attached). If you need any additional information, please do not hesitate to reach out.

Thank you!

Very Respectfully,

lan Musa

U.S. Department of Veterans Affairs

From: Carroll, Ed@Parks [mailto:Ed.Carroll@parks.ca.gov]

Sent: Wednesday, June 21, 2017 1:50 PM

To: VHAGLAMasterPlan

Subject: [EXTERNAL] RE: SHPO inquiry

CA SHPO is also confirming that we will be participating in the substitution process.

From: Carroll, Ed@Parks

Sent: Wednesday, June 21, 2017 1:45 PM

To: 'VHAGLAMasterPlan@va.gov' < VHAGLAMasterPlan@va.gov>

**Subject:** SHPO inquiry **Importance:** High

Good Afternoon, can you please confirm if the information provided to the public during your June 7-9 meetings is also on the website? If not, SHPO requests that the VA provide this information to inform our initial comments as per the VA's May 19, 2017 letter. I may be contacted at the information below.

Regards, Ed

Ed Carroll
Historian II
Architectural Review and Environmental Compliance Unit
Office of Historic Preservation
(916) 445-7006
1725 23rd Street, Suite 100
Sacramento, California 95816

LOS ANGELES CONSERVANCY

523 West Sixth Street, Suite 826 Los Angeles, CA 90014

213 623 2489 office 213 623 3909 FAX laconservancy.org

June 30, 2017

### **Submitted Electronically**

Ann R. Brown, Director VA Greater Los Angeles Healthcare System Attn: West Los Angeles Campus EIS/EIR 11301 Wilshire Boulevard, Building 500/Room 6409 Los Angeles, CA 90073

Email: VHAGLAMasterPlan@va.gov

### RE: West Los Angeles Campus EIS/EIR

Dear Ms. Brown,

On behalf of the Los Angeles Conservancy, thank you for the opportunity to comment on the West Los Angeles Campus EIS/EIR. In December 2015 we previously submitted comments on the "West Los Angeles Veterans Affairs Draft Final Master Plan." It's not entirely clear yet how this current plan is concurrent or different from the previous plan. We do understand the current draft plan was developed in response to the January 2015 settlement agreement, and overarching goal of making supportive housing (up to 3,500 units¹) and other services available on campus to Veterans. We believe that is an important goal and can be attained through a preservation-based planning approach.

The Conservancy has previously supported efforts to revitalize and rehabilitate the West L.A. campus, having recently reviewed the adaptive reuse project for Buildings 205, 208, and 209. In 2016 the Conservancy recognized the VA's Homeless Veterans Transitional Housing project at Building 209 with a Preservation Award. It is an outstanding project and model for how the VA could activate other similar buildings on the West L.A. campus and elsewhere.

We appreciate the Veterans Affairs' (VA) pursuit of an ambitious master plan. The overall campus and, more specifically, the West LA Veterans Affairs Historic District is an incredibly significant historic resource for all of Los Angeles. We want to ensure all measures and alternatives are fully considered to maintain continued eligibility of the district. There needs to be a strong historic preservation component to adequately address the environmental review process and

GLA VA Campus Draft Master Plan, V. Master Plan Development, Page V.29.



compliance with the National Environmental Policy Act (NEPA), National Historic Preservation (NHPA), and the California Environmental Quality Act (CEQA).

### A. Substituting NEPA for Section 106 Review

The VA references and states its intent to substitute NEPA for Section 106 Review through 36 CFR Section 800.8(c) of the NHPA Section 106 regulations. We have serious concerns about this as we do not have the full confidence in the VA and its ability to fully adhere and follow a streamlined environmental/historic preservation review process. Given long-standing concerns regarding the VA and historic preservation stewardship as a federal agency nationally, we do not think this type of process is prudent or advisable for the consulting parties in this matter. We intend to voice our objections on this to the California Office of Historic Preservation (OHP) and the Advisory Council on Historic Preservation (ACHP).

In our comment letter from December 2015, the Conservancy requested consulting party status under Section 106 of the NHPA at that time. The Conservancy would like to officially participate actively in the review process, as a formal "consulting party" under Section 106 of the National Historic Preservation Act (NHPA), pursuant to 36 C.F.R. § 800.2©(5) and 800.3(f). We would like to gain a greater understanding of the potential impacts and alternatives that are being explored. Please find attached our completed form as provided to the Conservancy by the VA.

We strongly urge the VA to initiate the required consultation under NEPA and Section 106 of the NHPA with parties as soon as possible in order to ensure that that the public has the opportunity to comment specifically on the potential impact that the Master Plan could have on historic resources. Moving forward with the consultation process after the release of the Master Plan is not in compliance with Section 106 requirements and inhibits the VA's ability to work with stakeholders to avoid, minimize, or mitigate potential adverse effects.

Furthermore, we request clarification with respect to the CEQA process for the Master Plan prior to its adoption and its timing for initiation. In addition to compliance with NEPA and NHPA, the VA should analyze potential significant impacts on historical resources at the West L.A. Campus under CEQA, including the West LA Veterans Affairs Historic District, as well as the designated Wadsworth Chapel and Trolley Depot.

A key policy under CEQA is the lead agency's duty to "take all action necessary to provide the people of this state with... historic environmental qualities...and preserve for future generations...examples of major periods of California history." 2 To this end, CEQA "requires public agencies to deny approval of a project with significant adverse effects when feasible alternatives or feasible mitigation measures can

<sup>&</sup>lt;sup>2</sup> Public Resources Code §21001 (b), (c).



substantially lessen such effects." Compliance with CEQA may include a thorough examination of preservation alternatives through the preparation of an Environmental Impact Report (EIR). Substantial adverse changes, or significant impacts, may include demolition, destruction, relocation, or alteration.

### B. Historic Preservation Plan as companion element to overall Master Plan

The Final Master Plan should address and mitigate any potential adverse impacts that could jeopardize the eligibility of known historical resources for the National Register, including demolition (Building 236), new and infill construction, and the proposed relocation of two contributing properties (Buildings 66 and 199) to nearby receiver sites. Alternatives A through E outline various scenarios yet provide limited understanding or analysis in terms of background and viability. We request that this type of information be provided for review and discussion by the consulting parties.

A companion Historic Preservation Plan should assess the existing conditions of all known historic resources and establish clear treatment and maintenance guidelines. While the project only proposes the demolition of one contributing property (Building 236) at this time, it does propose relocating Buildings 66 and 199, which are both district contributors. In addition to treatment standards, the preservation plan should identify the receiver sites for these properties and demonstrate how they will be stabilized before, during, and after the move.

The Master Plan does establish a sound path for ensuring that historic properties and elements are treated and reused in a manner consistent with the Secretary of the Interior's Standards for Rehabilitation, including the recommendation that a qualified preservation professional review and monitor the project at each stage of development. The breadth of the Master Plan, however, necessitates the adoption of a detailed plan for preservation, including the creation of a timeline for implementation and strategies for securing and/or stabilizing vacant buildings before work begins.

In particular, we emphasize the need to secure the National Register-listed Wadsworth Chapel (Building 20). We have previously raised concerns regarding the building's rapid deterioration, and we have learned that it is not currently secured with homeless repeatedly gaining access. While we press for immediate action to protect and stabilize the Wadsworth Chapel, we strongly encourage VA to outline a clear path for rehabilitating or restoring the building and incorporating it into the revitalized campus master plan.

Given the amount of new construction that is anticipated, the Historic Preservation Plan should also incorporate clear design guidelines for new construction within the potential historic district, building on the recommendations in the Draft Master Plan regarding site selection, compatible additions, and overall scale and character. In order to maintain the eligibility of the district, the Final Master Plan should establish strong, specific standards regarding scale, mass, height, fenestration, and building materials.

<sup>&</sup>lt;sup>3</sup> Sierra Club v. Gilroy City Council (1990) 222 Cal. App.3d 30, 41; also see PRC §§ 21002, 21002.1.



The National Park Service provides greater guidance in regards to the Standards and how to incorporate compatible new construction, specifically stating: "[I]ntroducing a new building or landscape feature that is out of scale or otherwise inappropriate to the setting's historic character" is not recommended. The preservation plan should set explicit guidelines regulating height, design elements, and overall building proportions for new construction, ensuring sensitivity towards contributing buildings, structures, objects, landscapes, streetscapes, and site plan elements.

The Final Master Plan should address and mitigate any potential adverse impacts that could jeopardize the eligibility of known historical resources for the National Register, including demolition (Building 236), new and infill construction, and the proposed relocation of two contributing properties (Buildings 66 and 199) to nearby receiver sites.

### C. Conclusion

The Conservancy would like to meet with the VA leadership and project team soon to better understand the intent for the Master Plan and implications for impacts on historic resources. We are making this request as a pending consulting party and community stakeholder.

Because of the Conservancy's knowledge and concern about the historic property potentially affected by this project, we believe we can provide important information and a valuable perspective as a consulting party under Section 106.

We look forward to the opportunity to learn more about the VA's priorities and to identify ways in which we might work collaboratively toward "win-win" outcomes.

### **About the Los Angeles Conservancy**

The Conservancy is the largest local historic preservation organization in the United States, with over 6,000 members. Established in 1978, the Conservancy works to preserve and revitalize the significant architectural and cultural heritage of Los Angeles County through advocacy and education.

Please include me as the point person for the Conservancy in your distribution list for all public notices of any meetings, including those for consulting parties, and for the circulation of any documents for comment. All correspondence should be sent to:

Adrian Scott Fine Director of Advocacy Los Angeles Conservancy 523 West 6th Street, Suite 826 Los Angeles, CA 90014



afine@laconservancy.org

213-430-4203

Sincerely,

Adrian Suft Fine

Adrian Scott Fine Director of Advocacy

cc: Advisory Council on Historic Preservation

Mayor Eric Garcetti

Councilmember Mike Bonin, District 11

Veterans Affairs Historic Preservation Office (Douglas Pulak) Office of Historic Preservation, State of California (Julianne Polanco)

Office of Historic Resources, City of Los Angeles (Ken Bernstein)

National Trust for Historic Preservation (Elizabeth Merritt)

Redevelopment of the VA Greater Los Angeles Healthcare System- West Los Angeles Medical Center in accordance with the Draft Master Plan Historic Property Consulting Party Form

Please complete and return this form, or an independent letter, via email to <a href="VHAGLAMasterPlan@va.gov">VHAGLAMasterPlan@va.gov</a> or in hard copy to VA Greater Los Angeles Healthcare System, Attn: EIS/EIR, 11301 Wilshire Boulevard, Building 500/Room 6409, Los Angeles, California 90073, reference "WLA Campus Consulting Party." Responses are requested not later than June 15, 2017, in order to allow adequate time to prepare for upcoming meetings.

Organizatio n:	LOS Angeles Consenancy		
Point of Contact:	Adrian Scott Fine		
	Title:	Director of Advocacy	
	Address:	523 West 6 th street Suite 826	
		LOS Angles, ea 90014	
	Email:	afine @ laconservancy.org	
	Telephone:	213. 430. 4203	
	Website:	Laconservancy org	
	g impacts to histor	tation would like to participate as a Consulting Party specifically focused ric properties that may result from the Redevelopment of the West LA is through the information listed above.	
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the WLA cam		tion will not participate in the environmental review process to redevelop	

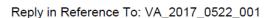
STATE OF CALIFORNIA - THE NATURAL RESOURCES AGENCY

EDMUND G. BROWN, JR., Governor

### OFFICE OF HISTORIC PRESERVATION DEPARTMENT OF PARKS AND RECREATION

1725 23<sup>rd</sup> Street, Suite 100 SACRAMENTO, CA 95816-7100 (916) 445-7000 Fax: (916) 445-7053 calshpo@parks.ca.gov www.ohp.parks.ca.gov

July 11, 2017



Ann R. Brown, FACHE
Director
Department of Veterans Affairs
Greater Los Angeles Healthcare System
11301 Wilshire Boulevard
Los Angeles, CA 90037

Re: Redevelopment of the VA Greater Los Angeles Healthcare System Master Plan, West Los Angeles Campus, Los Angeles County

Dear Ms. Brown:

In its 19 May 2017 letter, the Department of Veterans Affairs (VA) initiated consultation with the State Historic Preservation Officer (SHPO) in a joint National Environmental Policy Act (NEPA)/Section 106 process as defined in 36 CFR 800.8 regarding an undertaking defined as the implementation of the *Department of Veterans Affairs Greater Los Angeles Draft Master Plan* (2016) (*M.P.*) for redevelopment of the West Los Angeles Campus of the VA Greater Los Angeles Healthcare System. The VA have declared their intent to use the NEPA process and documentation required for the preparation of the Environmental Impact Study (EIS) to meet their Section 106 responsibilities

Based on review of the *M.P.*, the letter of 19 May 2017 and information provided by the VA during the June 2017 public scoping meetings, the SHPO has these initial comments and questions for the VA's consideration:

- 1. Completion of Section 106 review under 36 CFR 800.8 requires that the federal agency and the SHPO concur on identification and evaluation of resources and on findings of effect. Please describe the VA's strategy for Section 106 compliance using the NEPA substitution process as stipulated in 36 CFR 800.8(c)(1)(i) through (v). It is the SHPO's preference that the VA's efforts under 800.8(c)(1)(i) through (v) are submitted for SHPO review in writing, although other forms of communication including telephone conferences and meetings may also be appropriate supplements, but not substitutes, for required documentation.
- 36 CFR 800.8 does not specify at what point in the process concurrence must be reached. The SHPO strongly recommends that concurrence be reached prior to the issuance of the draft EIS, thus enabling the agency to disclose and document concurrence in the environmental document.

Ann R. Brown July 11, 2017 Page 2

WLA Campus Draft Master Plan

VA\_2017\_0522\_001

- 3. The SHPO has no objection to the results of the VA's consulting party identification efforts and it appears that this consortium adequately represents public interest. The SHPO understands that the VA will consider all reasonable concerns and comments from these entities and any additional members of the public who may express interest in the undertaking and will keep them fully informed on all steps and developments of this joint NEPA/Section 106 process.
- 4. The VA's identification of the historic properties pertaining to the built environment at the West Los Angeles Campus and their delineation of the undertaking's area of potential effects, identified as the entirety of the West Los Angeles Veterans Affairs Historic District, appears adequate to take the undertaking's effects on these historic properties into account. The SHPO understands that the VA's proposed plan of action for the identification and treatment of archeological resources at the West Los Angeles Campus is forthcoming.
- 5. The M.P. states that the VA executed Enhanced Use Lease Agreements (EUL) for district contributors Buildings 205, 208 and 209 and intends to use the same strategy for three additional district contributors identified as Buildings 156, 157 and 158. The SHPO requests the VA present documentation demonstrating how existing and proposed plans for the management and treatment of historic properties under the EUL program meet the Secretary of the Interior's Standards (Standards) and confirm that maintenance activities are and will be supervised by individuals meeting the Secretary of the Interior's Professional Qualifications Standards. As the execution of an EUL for eligible or listed NRHP properties constitutes an undertaking pursuant to 36 CFR 800.16(y), please confirm that the VA intend to consult on the proposed EUL agreements for Buildings 156, 157 and 158.
- 6. The SHPO seeks further details about the VA's management of the 1887 Fund's proposed restoration of five district contributors identified as the Depot, Wadsworth Chapel, Hoover Barracks, Superintendent's Home and the Governor's Mansion. Please specify how the VA will ensure that a) restoration activities are consistent with the Standards, b) the SHPO is consulted on all phases of planning and restoration, c) any effects to historic properties stemming from these proposed activities are taken into account and, d) appropriate mitigation measures will be developed and executed (if necessary).
- 7. It is mentioned in the *M.P.* that the Police Station (Building 236) will be demolished and relocated. The SHPO encourages the VA to seek alternatives to demolition and requests clarification on the VA's proposed action alternative for this district contributor.
- 8. Appendix A of the *M.P.* explains that VA building condition assessment criteria dictates that "Inadequacies relating to seismic integrity or life safety systems automatically caused a building to receive a "poor" value as these issues require immediate consideration for future inhabitation of the building." Assessment results found that the

Ann R. Brown July 11, 2017 Page 3 VA\_2017\_0522\_001

majority of campus district contributors are "in significant disrepair requiring immediate assessment and attention," and were therefore rated as being in poor condition. The SHPO encourages the VA to consult on a course of action that seeks to correct these deficiencies through rehabilitation and restoration rather than demolition.

- 9. Of the VA's five action alternatives presented in the Public Scoping PowerPoint presentation (slides 18 and 28), the SHPO strongly supports Alternatives A and B, both of which emphasize the rehabilitation and reuse of historic properties. The SHPO is confident that throughout the planning and implementation of the campus redevelopment plan the VA will commit to meeting the applicable *Standards* through the full retention, rehabilitation and reuse of all district contributors. As demonstrated by the successful rehabilitation and reuse of Building 209, a balance between historic preservation practices and the VA's mission is attainable through sound planning and consultation. Because the retention of the district's overall integrity is reliant upon this same principle, it is also recommended that any new construction and infill be designed in a manner consistent with the campus's character defining features.
- 10. In consideration of the Master Plan's complexities and scope, the SHPO is hopeful that the VA will employ permanent, qualified Section 106 and/or cultural resource management professionals at the West Los Angeles Campus to provide the oversight, consistency and expertise required to facilitate efficient and effective consultation and compliance.

The SHPO looks forward to working with the VA to develop and implement a campus development plan emphasizing the successful preservation and reuse of historic properties. Any questions or concerns should be directed to Historian Ed Carroll at (916) 445-7006 / Ed.Carroll@parks.ca.gov.

Sincerely,

Julianne Polanco

State Historic Preservation Officer

West Los Angeles Healthcare Center 11301 Wilshire Boulevard

(310) 478-3711

Los Angeles, CA 90073



### DEPARTMENT OF VETERANS AFFAIRS Greater Los Angeles Healthcare System 11301 Wilshire Boulevard Los Angeles, CA 90073

In Reply Refer To: 691/00PA

October 16, 2017

Julianne Polanco
State Historic Preservation Officer
California Office of Historic Preservation

1725 23rd Street, Suite 100 Sacramento, California 95816

RE: Programmatic Environmental Impact Statement (EIS)/Environmental Impact Report (EIR) for the Draft Master Plan Overseeing the Redevelopment of the VA Greater Los Angeles Healthcare System - West Los Angeles Campus, Los Angeles, California SHPO Reference No. VA\_2017\_0522\_001

Dear Ms. Polanco.

Thank you for your letter of July 11, 2017, concerning the Draft Master Plan programmatic EIS/EIR for the redevelopment of the West Los Angeles Campus (WLA campus) of the VA Greater Los Angeles Healthcare System (GLAHS). Our goal of ending Veterans homelessness in Los Angeles is ambitious, yet attainable, with the support of agencies and organizations such as yours.

VA concluded its initial scoping related to development of the programmatic EIS/EIR on June 30, 2017, following three public scoping meetings held June 7, June 8, and June 9, 2017. VA will consider your comments in our ongoing analysis of environmental impacts, including effects to historic properties. Additionally, we are providing below specific responses to your enumerated comments.

SHPO 1. Completion of Section 106 review under 36 CFR 800.8 requires that the federal agency and the SHPO concur on identification and evaluation of resources and on findings of effect. Please describe the VA's strategy for Section 106 compliance using the NEPA substitution process as stipulated in 36 CFR 800.8(c)(1)(i) through (v). It is the SHPO's preference that the VA's efforts under 800.8(c)(1)(i) through (v) are submitted for SHPO review in writing, although other forms of communication including telephone conferences and meetings may also be appropriate supplements, but not substitutes, for required documentation.

VA 1. Although 36 CFR §800.8 does not require SHPO concurrence, VA values your concurrence on its list of consulting parties, APE, historic properties, and determination of effect, which were presented in the

scoping meetings. VA believes that a robust, transparent process will produce the best results for the WLA campus and its historic properties potentially affected by the undertaking. VA hosted scoping meetings on June 7, June 8, and June 9, 2017, to discuss potential impacts, including effects to historic properties, with members of the public and representatives of Consulting Parties. Our presentation included information about the Area of Potential Effect (APE), historic properties within that APE, and potential effects of the Undertaking on those properties. No verbal comments nor written comments, with the exception of your July 11, 2017, letter, were received before, during, or after the scoping meetings with respect to, 1) the APE, 2) the list of historic properties potentially affected, or 3) the preliminary information presented about level of effect. Thus, VA has fulfilled 800.8(c)(1)(i), (ii), and (iv), and is actively engaged in (iii) and (v). VA will include the public presentation, all comments from Consulting Parties and members of the public about historic properties, and the formal letters exchanged through consultation in an appendix to the draft programmatic EIS/EIR for public comment.

VA will host consulting party working sessions in the coming months to discuss methods of avoiding, minimizing, and/or mitigating potential adverse effects to historic properties. Your office and all consulting parties will be invited to participate. Some of these sessions might be conducted via webinar or conference call, while others may be in person. The results of these sessions will be documented in the draft programmatic EIS/EIR and will form the basis for development of measures to resolve adverse effects.

SHPO 2. 36 CFR 800.8 does not specify at what point in the process concurrence must be reached. The SHPO strongly recommends that concurrence be reached prior to the issuance of the draft EIS, thus enabling the agency to disclose and document concurrence in the environmental document.

VA 2. Although 36 CFR §800.8 does not require concurrence, VA intends to follow the 2013 guidance from the Council on Environmental Quality (CEQ) and the Advisory Council on Historic Preservation (ACHP) entitled NEPA and NHPA: A Handbook for Integrating NEPA and Section 106 (Handbook). This guidance recommends consulting on steps 800.8(c)(i)-(v), and outlining steps to resolve adverse effects prior to release of the draft NEPA document, in this case the draft programmatic EIS/EIR, and documenting that concurrence in the draft. This strategy provides members of the public the opportunity to comment and VA to take those comments into consideration prior to finalization of the measures to resolve adverse effects. VA will follow the Handbook's guidance to develop the draft programmatic EIS/EIR.

SHPO 3. The SHPO has no objection to the results of the VA's consulting party identification efforts and it appears that this consortium adequately represents public interest. The SHPO understands that the VA will consider all reasonable concerns and comments from these entities and any additional members of the public who may express interest in the undertaking and will keep them fully informed on all steps and

developments of this joint NEPA/Section 106 process.

VA 3. VA initiated its public scoping related to the redevelopment of the campus with its publication of the "Notice of Intent to Prepare an Environmental Impact Statement" in the Federal Register on May 19, 2017. Since that time, VA has directly contacted over 770 unique stakeholders to invite them to participate in the public process; published notices in local newspapers, including The LA Times; distributed flyers on campus; posted all public documents, including the scoping meeting presentation and substitution process outline, on the West Los Angeles VA website; and posted notices on social media about the NEPA and NHPA analysis and review. VA invited twenty-three (23) agencies and organizations, including the California State Historic Preservation Office and Native American Tribes, to participate in consultation about effects to historic properties as a result of the Undertaking. At present, seven organizations, including your office, have responded with their intent to participate in consultation. These organizations include the:

- 1887 Fund,
- Advisory Council on Historic Preservation,
- California Office of Historic Preservation (the State Historic Preservation Office).
- Gabrielino Tongva Indians of California,
- Los Angeles Conservancy.
- Tongva Ancestral Territorial Tribal Nation, and
- Veterans Park Conservancy.

Each of these consulting parties stated interest in working with VA to develop measures to resolve adverse effects to historic properties through consultation. The Los Angeles Conservancy expressed concern about the use of substitution for this undertaking. VA has chosen substitution because of the level of public interest in the project and because the historic elements of the campus and the stated goals of the draft Master Plan are too interconnected to be effectively analyzed independently. VA looks forward to working with all consulting parties and other campus stakeholders to examine the environmental impacts, including effects to historic properties, through the development of the programmatic EIS/EIR.

VA accepted comments from participants in the public scoping meetings and from all stakeholders through June 30, 2017. VA received comments concerning potential impacts of the undertaking related to traffic, cost of living changes, vacant buildings, funding, parks, archaeological deposits, paleontological remains, and historic buildings. VA will take all comments into consideration when developing the draft programmatic EIS/EIR.

SHPO 4. The VA's identification of the historic properties pertaining to the built environment at the West Los Angeles Campus and their delineation of the undertaking's area of potential effects, identified as the entirety of the West Los Angeles Veterans Affairs Historic District, appears adequate to take the undertaking's effects on these historic properties into account. The SHPO understands that the VA's proposed plan of action for the identification and treatment of archeological resources at the West Los

Angeles Campus is forthcoming.

VA 4. VA has finalized delineation of the APE through presentations at the scoping meetings held June 7, June 8, and June 9, 2017, and the receipt of comments from the public and representatives of consulting parties. It is VA's intention to consult with the appropriate stakeholders, including your office and Native American tribes, regarding phased methods to identify archaeological deposits beyond those already documented.

SHPO 5. The M.P. states that the VA executed Enhanced Use Lease Agreements (EUL) for district contributors Buildings 205, 208 and 209 and intends to use the same strategy for three additional district contributors identified as Buildings 156, 157 and 158. The SHPO requests the VA present documentation demonstrating how existing and proposed plans for the management and treatment of historic properties under the EUL program meet the Secretary of the Interior's Standards (Standards) and confirm that maintenance activities are and will be supervised by individuals meeting the Secretary of the Interior's Professional Qualifications Standards. As the execution of an EUL for eligible or listed NRHP properties constitutes an undertaking pursuant to 36 CFR 800.16(y), please confirm that the VA intend to consult on the proposed EUL agreements for Buildings 156, 157 and 158.

VA 5. VA executed an Enhanced-Use Lease (EUL) of Building #209, a contributing resource to the WLA VA NRHD, as supportive housing for homeless and underserved Veterans. VA rehabilitated the building in accordance with the Secretary of the Interior's Standards for the Treatment of Historic Properties, an action your office concurred would not adversely affect historic properties. Today, Building #209 houses more than fifty Veterans. The project recently was listed as a "Section 106 Success Story" by the ACHP (<a href="http://www.achp.gov/docs/west-la-va-medical-center.pdf">http://www.achp.gov/docs/west-la-va-medical-center.pdf</a>).

Given the success of the Building #209 project and the goal of the GLAHS to provide more housing to homeless Veterans, VA has started working with a developer to reuse Buildings #205 and #208 as supportive housing. VA consulted with your office in 2015 regarding rehabilitation plans and your office concurred with this plan in February 2015. VA is committed to requiring the selected developer to also apply the Secretary of the Interior's Standards for the Treatment of Historic Properties in order to avoid adverse effects to historic properties. We believe that the developer will seek historic tax credits. VA will continue working closely with your office on these projects as the architectural plans are being developed.

Development of EUL plans for Buildings #156, #157, and #158 is under consideration. Plans for Buildings #156, #157, and #158 will be analyzed as part of the programmatic EIS/EIR, and stipulations to avoid, minimize, or mitigate adverse effects to the historic properties will be part of that programmatic process.

SHPO 6. The SHPO seeks further details about the VA's management of the 1887 Fund's proposed restoration of five district contributors identified as the Depot, Wadsworth Chapel, Hoover Barracks, Superintendent's Home and the Governor's Mansion. Please specify how the VA will ensure that a) restoration activities are consistent with the Standards, b) the SHPO is consulted on all phases of planning and restoration, c) any effects to historic properties stemming from these proposed activities are taken into account and, d) appropriate mitigation measures will be developed and executed (if necessary).

VA 6. The 1887 Fund is a 501(c)(3) dedicated to the rehabilitation of the Wadsworth Chapel (Building #20), the Governor's Mansion (Building #23), the Superintendent's Home (Building #33), the Streetcar Depot (Building #66), and the Hoover Barracks (Building #199). VA previously submitted documentation to your office and received concurrence with our determination that rehabilitation of the Wadsworth Chapel (Building #20) in accordance with the Secretary of the Interior's Standards for the Treatment of Historic Properties will not cause an adverse effect to the historic building or the WLA VA NRHD.

Presently, the 1887 Fund is raising funds to pay for the rehabilitation of the Wadsworth Chapel. Once that financial goal is met, the 1887 Fund will begin fundraising related to rehabilitation of the four remaining buildings. The 1887 Fund is utilizing space in Building #33 as an office. VA has provided documentation to your office regarding plans to make necessary safety upgrades to Building #33. To the maximum extent possible, VA and the 1887 Fund intend to use the Secretary of the Interior's *Standards for the Treatment of Historic Properties* to avoid adverse effects to historic built resources; however, it is far too early in the process for VA to commit to strict use of the Standards. If VA were to not use the Standards, it might constitute an adverse effect, and would need to be resolved. VA will consult with your office regarding such resolution.

SHPO 7. It is mentioned in the M.P. that the Police Station (Building 236) will be demolished and relocated. The SHPO encourages the VA to seek alternatives to demolition and requests clarification on the VA's proposed action alternative for this district contributor.

VA 7. As noted, the Draft Master Plan is not consistent in its recommendations for Building #236. The treatment of Building #236 will be considered as part of the development of the programmatic EIS/EIR. VA will consult with your office and other consulting parties concerning measures to avoid, minimize, and/or mitigate adverse effects to all contributing elements, including Building #236. These measures will be taken into account in the commitments included in the ROD.

SHPO 8. Appendix A of the M.P. explains that VA building condition assessment criteria dictates that "Inadequacies relating to seismic integrity or life safety systems automatically caused a building to receive a "poor" value as these issues require immediate consideration for future inhabitation of the building." Assessment results found that the majority of Campus district contributors are "in significant disrepair requiring

immediate assessment and attention," and were therefore rated as being in poor condition. The SHPO encourages the VA to consult on a course of action that seeks to correct these deficiencies through rehabilitation and restoration rather than demolition.

VA 8. Alternatives proposed for analysis in the programmatic EIS/EIR are:

- Alternative A: Relocation of any existing tenants and services to another existing building, complete renovation and retrofit of the existing building(s) for a new function and service provider;
- Alternative B: Relocation of any existing tenants and services to another existing building(s), complete renovation and retrofit of the existing building(s), and relocation of tenants back to the newly completed renovation;
- Alternative C: Relocation of any existing tenants and services to another existing building(s), and the attendant complete demolition of former building(s), with construction of completely new building(s);
- Alternative D: Relocation of any existing tenants and services to another existing building(s), complete demolition of former building(s), with no replacement of the demolished building(s);
- Alternative E: Study of the impacts associated with the No Action or "status quo" alternative.

VA will consult with your office and other parties to identify measures to avoid, minimize, and/or mitigate adverse effects related to each of these alternatives. If it is determined that a Campus building can be productively rehabilitated in support of VA's mission, VA will do so as a measure to avoid and/or minimize effects. VA cannot commit to any course of action for any building or other campus resource until consultation related to historic properties has concluded, analysis as part of the programmatic EIS/EIR is complete, and the ROD has been published.

SHPO 9. Of the VA's five action alternatives presented in the Public Scoping PowerPoint presentation (slides 18 and 28), the SHPO strongly supports Alternatives A and B, both of which emphasize the rehabilitation and reuse of historic properties. The SHPO is confident that throughout the planning and implementation of the Campus redevelopment plan the VA will commit to meeting the applicable Standards through the full retention, rehabilitation and reuse of all district contributors. As demonstrated by the successful rehabilitation and reuse of Building 209, a balance between historic preservation practices and the VA's mission is attainable through sound planning and consultation. Because the retention of the district's overall integrity is reliant upon this same principle, it is also recommended that any new construction and infill be designed in a manner consistent with the campus's character defining features.

VA 9. VA will take your preferences into consideration and consult with your office and other parties in the coming months to develop measures to avoid, minimize, and/or mitigate effects of all alternatives. These measures will include methods to avoid and/or minimize the effects of

potential future construction. VA will take into account such measures when determining the action necessary for best meeting the Purpose and Need of the undertaking.

SHPO 10. In consideration of the Master Plan's complexities and scope, the SHPO is hopeful that the VA will employ permanent, qualified Section 106 and/or cultural resource management professionals at the West Los Angeles Campus to provide the oversight, consistency and expertise required to facilitate efficient and effective consultation and compliance.

VA 10. VA will consider your recommendation but cannot commit to any WLA campus staffing plan at this time. The VA Federal Preservation Office is part of the project management team and will continue to provide guidance and oversight throughout the NEPA compliance process. Additional SOI-qualified professionals are also part of the project team.

VA will provide copies of this response to all consulting parties and include it in an appendix to the draft programmatic EIS/EIR.

We appreciate your continued feedback. If you have any questions about this undertaking or other consultations related to the GLAHS, please contact Natalie Wherry at (310) 478-3711 ext. 53277 or Natalie.Wherry@va.gov.

Sincerely,

Ann R. Brown, FACHE

Director

Greater Los Angeles Healthcare System

Cc: Mr. Edward Carroll

Ladies and Gentlemen.

WLA Campus Draft Master Plan

Thank you for accepting the invitation of the U.S. Department of Veterans Affairs (VA) to participate in consultation related to possible impacts to historic properties resulting from the redevelopment of the West Los Angeles campus, 11301 Wilshire Boulevard (WLA campus), of the VA Greater Los Angeles Healthcare System (GLAHS). The goals of this redevelopment are the provisions of permanent supportive housing for Veterans, specifically the chronically homeless, severely disabled, aging, and female Veteran populations, and of related services for these groups and all Veterans in the greater Los Angeles area through implementation of the revised *Department of Veterans Affairs Greater Los Angeles Draft Master Plan* released in January 2016 and the completion of several campus improvement projects (the Federal Action/Undertaking).

The WLA Campus will host a working session to consult about measures to resolve potential adverse effects to historic properties from redevelopment of the WLA campus on Thursday, November 29, 2017, from 1:00 PM to 5:00 PM at the West Los Angeles Campus, 11301 Wilshire Boulevard, Los Angeles. An agenda will be released prior to the meeting.

VA will make a webinar available for those unable to attend in person. Please respond to <a href="https://www.vhag.edu.gov"><u>VHAGLAMasterPlan@va.gov</u></a> regarding the ability of your organization to participate in this working session and the names of those who will be present and/or participating digitally.

Please email <u>VHAGLAMasterPlan@va.gov</u> if you have any questions or require any additional information. We look forward to consulting about this important effort with your organization at this meeting and in the future.

Sincerely,

Ann R. Brown, FACHE Director Greater Los Angeles Healthcare System

### AGENDA Consultation Working Session November 29, 2017 1:00 PM PT to 5:00 PM PT

### West Los Angeles Campus of the VA Greater Los Angeles Healthcare System 11301 Wilshire Boulevard, Los Angeles, California

- I. Introductions
- II. Description of the Draft Master Plan
  - a. Reasons for Redevelopment
  - b. Goals of Redevelopment
- III. NEPA/NHPA Substitution Process
  - a. Substitution process
  - b. Alternatives
  - c. Development of a programmatic agreement

### (Break)

- IV. Description of Potential Effects to Historic Properties
  - a. Comments about the Assessment of Effects
- Develop Archaeological Methodologies Utilizing a WLA Campus Archaeological Probability Model
  - a. Working Session

### (Break)

- VI. Develop Measures to Resolve Adverse Effects from Demolition of Historic Buildings
  - a. Working Session
- VII. Develop Measures to Resolve Adverse Effects to Built Resources from Renovation without
  Use of the Secretary of the Interior's Standards for the Treatment of Historic Properties
  - a. Working Session
- VIII. Next Steps



# Consultation Historic Properties Impacts

Programmatic Environmental Impact Statement (PEIS)/ Program Environmental Impact Report (PEIR) of the West Los Angeles Campus Draft Master Plan

> November 29, 2017 1:00PM PT - 5:00PM PT

### West Los Angeles Campus Draft Master Plan - PEIS/PEIR



# Introductions and Welcome



### Purpose of Today's Meeting

- >Update on preparation of a Programmatic Environmental Impact Statement (PEIS) / Program Environmental Impact Report (PEIR)
- ➤ Review the Action/Project (Undertaking) & Alternatives
- Discuss Potential Effects of the Undertaking on Historic Properties
- Develop measures to avoid, minimize, and/or mitigate adverse effects

West Los Angeles Campus Draft Master Plan - PEIS/PEIR





# Action/Project

The WLA Campus Draft Master Plan



### Proposed Action/Project

The proposed action/project is to
evaluate and improve the existing Draft
Master Plan in order to develop the
most effective use of the West Los
Angeles Campus for Veteran services,
particularly for homeless Veterans,
including underserved populations such
as female Veterans, aging Veterans,
and those who are severely physically
disabled



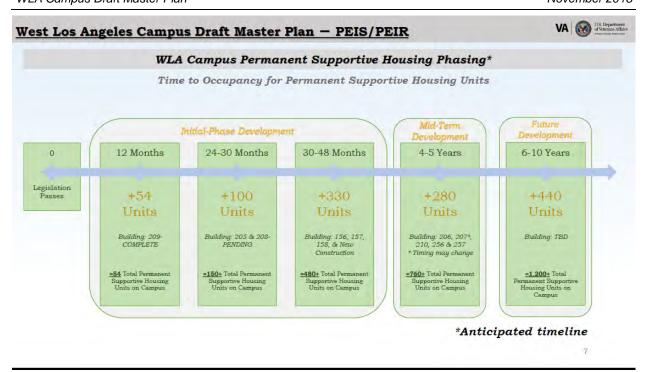
### West Los Angeles Campus Draft Master Plan — PEIS/PEIR

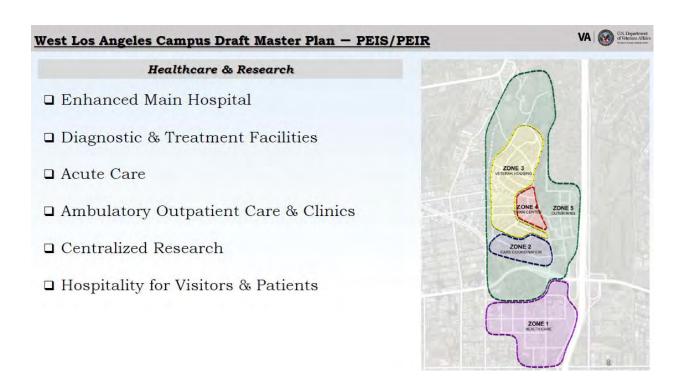




### Draft Master Plan - Background & Context

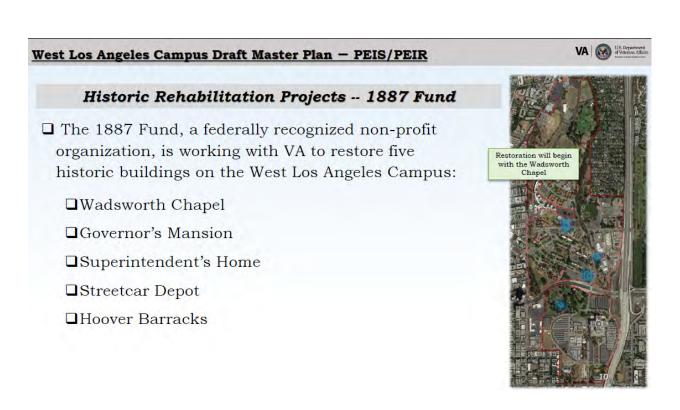
- □ The **Draft Master Plan** was adopted by the former Secretary of VA in January 2016 and supports the revitalization of the 388-acre West Los Angeles Campus
- □ The West Los Angeles Leasing Act of 2016 (Public Law 114-226) was enacted in September 2016 allowing Enhanced Use Leases as a mechanism for VA to work with the private sector to provide permanent supportive housing on the West Los Angeles Campus





informed

# Los Angeles Metro Transit Authority Purple Line □ Proposed new transportation link for the community □ Improved access to/from WLA Campus & Los Angeles National Cemetery □ Impacts to the WLA Campus during construction □ Changes to the WLA Campus once operational □ VA & Metro are working together to keep the Veteran community WA WA Transit Authority Purple Line Los Angeles Metro Transit Authority Purple Line WA WA Transit Authority Purple Line WA WELLON TRANSIT AUTHORITY PURPLE







# NEPA Substitution for NHPA Section 106 + CEQA

National Environmental Policy Act (NEPA) National Historic Preservation Act (NHPA) California Environmental Quality Act (CEQA)

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### West Los Angeles Campus Draft Master Plan - PEIS/PEIR



### National Environmental Policy Act (NEPA) -- Background

- ☐ The National Environmental Policy Act (NEPA) of 1969 requires Federal agencies to undertake an assessment of the environmental effects of their proposed actions prior to making decisions
- ☐ NEPA is an "umbrella" law for the integrated compliance with other environmental laws to comprehensively evaluate a proposed action's potential impacts
- ☐ VA's compliance with NEPA will include preparation of a PEIS/PEIR that will be made available for public review and comment





### National Historic Preservation Act (NHPA) & Substitution

- ☐ The National Historic Preservation Act (NHPA) of 1966 is our nation's most comprehensive legislation related to the protection of historic properties
- ☐ Section 106 of the NHPA requires Federal agencies to consider the effects of undertakings they carry out, assist, fund, or permit on historic properties and to provide the Advisory Council on Historic Preservation (ACHP) a reasonable opportunity to comment on such undertakings
- ☐ In the interests of efficiency, completeness, and facilitating public involvement, VA is incorporating the review procedures for historic properties, usually carried out separately, into its NEPA analysis.
- VA intends to memorialize the measures to resolve adverse effects in a programmatic agreement

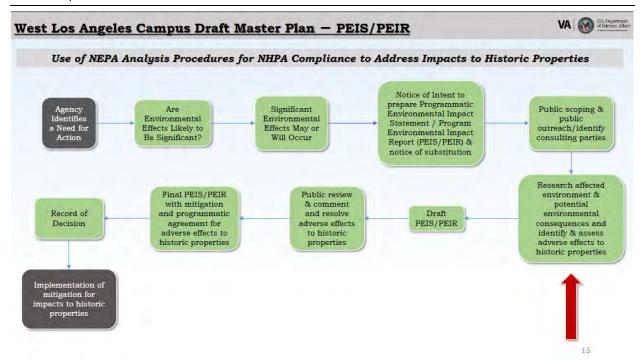
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### West Los Angeles Campus Draft Master Plan - PEIS/PEIR



### California Environmental Quality Act (CEQA) -- Background

- ☐ The California Environmental Policy Act (CEQA) is a California statute requiring state and local agencies to review a proposed project for significant environmental impacts and to identify measures to reduce these impacts where possible
- $\hfill \square$  CEQA is often conducted in parallel with NEPA document development
- □ VA's compliance with CEQA will include preparation of a combined PEIS/PEIR that will be made available for public review and comment
- □Compliance with CEQA will assist with non-VA developments on campus







### **Proposed Alternatives**

### All alternatives include necessary utility and infrastructure improvements

- □ Alternative A: Relocation of any existing tenants and services to another existing building, complete renovation and retrofit of the existing building or buildings for a new function and service provider
- □ Alternative B: Relocation of any existing tenants and services to another existing building or buildings, complete renovation and retrofit of the existing building or buildings, and relocation of tenants back to the newly completed renovation
- □ Alternative C: Relocation of any existing tenants and services to another existing building or buildings, and the attendant complete demolition of former building or buildings, with construction of completely new building or buildings
- □ Alternative D: Relocation of any existing tenants and services to another existing building or buildings, complete demolition of former building or buildings, with no replacement of the demolished building or buildings
- □ Alternative E: Construction of completely new building or buildings on existing vacant land on the WLA Campus
- □ Alternative F: Combination of Alternatives A E, implemented depending on the building and it future use
- □ Alternative G: Study of the impacts associated with the No Action/No Project or "status quo" alternative, as a basis for comparison to the action/project alternatives





# Potential Effects of the Undertaking on Historic **Properties**

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### West Los Angeles Campus Draft Master Plan - PEIS/PEIR





### Area of Potential Effects (APE)

- APE for this undertaking is the boundaries of the West Los Angeles Campus and the Los Angeles National Cemetery
- ☐ Historic properties within the APE include:
  - ☐ West Los Angeles Veterans Affairs Historic District, including the Los Angeles National Cemetery
  - ☐ The Wadsworth Chapel (Building #20)
  - ☐ The Streetcar Depot (Building #66)
  - ☐ Known Archaeological Deposits
  - ☐ Potential Archaeological Sites
- □No other cultural resources identified



WLA Campus Draft Master Plan

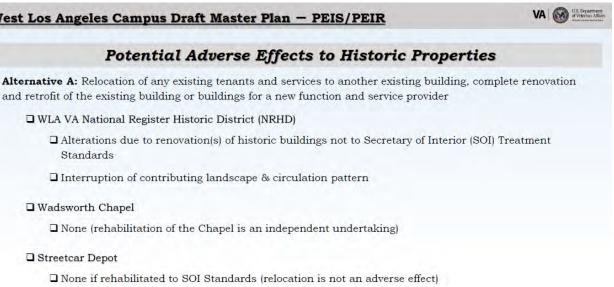
☐ Wadsworth Chapel

☐ Streetcar Depot

☐ Archaeological Sites ☐ Disturbance

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### West Los Angeles Campus Draft Master Plan - PEIS/PEIR



Vest Los Angeles Campus Draft Master Plan — PEIS/PEIR	VA   WS. Departs
Potential Adverse Effects to Historic Propert	ies
<b>Alternative B:</b> Relocation of any existing tenants and services to another existing building or renovation and retrofit of the existing building or buildings, and relocation of tenants back trenovation	
□ WLA VA NRHD	
☐ Alterations due to renovation(s) of historic buildings not to SOI Treatment S	tandards
☐ Interruption of contributing landscape & circulation pattern	
□ Wadsworth Chapel	
$\square$ None (rehabilitation of the Chapel is an independent undertaking)	
☐ Streetcar Depot	
□ None	
☐ Archaeological Sites	
☐ Disturbance	20

☐ Demolition (relocation is not an adverse effect)

WLA Campus Draft Master Plan

☐ Archaeological Sites

# West Los Angeles Campus Draft Master Plan — PEIS/PEIR Potential Adverse Effects to Historic Properties Alternative C: Relocation of any existing tenants and services to another existing building or buildings, and the attendant complete demolition of former building or buildings, with construction of completely new building or buildings WLA VA NRHD Demolition of contributing buildings Interruption of contributing landscape & circulation pattern Vibration damage related to demolition or new construction New construction incompatible with the historic district Wadsworth Chapel None (rehabilitation of the Chapel is an independent undertaking)

est Los Angeles Campus Draft Master Plan — PEIS/PEIR	VA Street Its Department of Veteran
Potential Adveres Effects to Historic Prope	rties
Alternative D: Relocation of any existing tenants and services to another existing building demolition of former building or buildings, with no replacement of the demolished building.	
□ WLA VA NRHD	
☐ Demolition of contributing buildings	
☐ Vibration damage related to demolition	
☐ Interruption of contributing landscape & circulation pattern	
☐ Wadsworth Chapel	
$\square$ None (rehabilitation of the Chapel is an independent undertaking)	
☐ Streetcar Depot	
□ Demolition	
☐ Archaeological Sites	
☐ Disturbance	22

☐ Archaeological Sites☐ Disturbance

West Los Angeles Campus Draft Master Plan — PEIS/PEIR	VA US Department of Vicination Afficiation Control
Potential Adverse Effects to Historic Prope	erties
Alternative E: Construction of completely new building or buildings on existing vacant	land on the WLA Campus
□ WLA VA NRHD	
☐ Interruption of contributing landscape & circulation pattern	
☐ Vibration damage related to new construction	
□ New construction incompatible with the historic district	
☐ Abandonment of historic buildings	
□ Wadsworth Chapel	
☐ None (rehabilitation of the Chapel is an independent undertaking)	
□ Streetcar Depot	
□ None	

West Los Angeles Campus Draft Master Plan — PEIS/PEIR	VA   Solution of Websites Africa
Potential Adverse Effects to Historic Prope	rties
Alternative F: Combination of Alternatives A – E, implemented depending on the building	ng and it future use
□ WLA VA NRHD	
☐ Demolition of contributing buildings	
☐ Interruption of contributing landscape & circulation pattern	
☐ Vibration damage related to demolition or new construction	
☐ Alteration due to renovation not to SOI Standards	
☐ New construction incompatible with the historic district	
☐ Abandonment of historic buildings	
Continued to next slide.	
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### Potential Adverse Effects to Historic Properties

Alternative F: Combination of Alternatives A – E, implemented depending on the building and it future use

- ☐ Wadsworth Chapel
  - ☐ None (rehabilitation of the Chapel is an independent undertaking)
- ☐ Streetcar Depot
  - ☐ None if rehabilitated to SOI Standards (relocation is not an adverse effect)
  - ☐ Demolition (relocation is not an adverse effect)
- ☐ Archaeological Sites
  - ☐ Disturbance

Continued from previous slide.

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### West Los Angeles Campus Draft Master Plan - PEIS/PEIR





### Potential Effects to Historic Properties

**Alternative G:** Study of the impacts associated with the No Action/No Project or "status quo" alternative, as a basis for comparison to the action/project alternatives

- ☐ WLA VA NRHD
  - ☐ Loss of integrity due to deferred investment
- ☐ Wadsworth Chapel
  - ☐ None (rehabilitation of the Chapel is an independent undertaking)
- ☐ Streetcar Depot
  - □ None
- ☐ Archaeological Sites
  - □ None



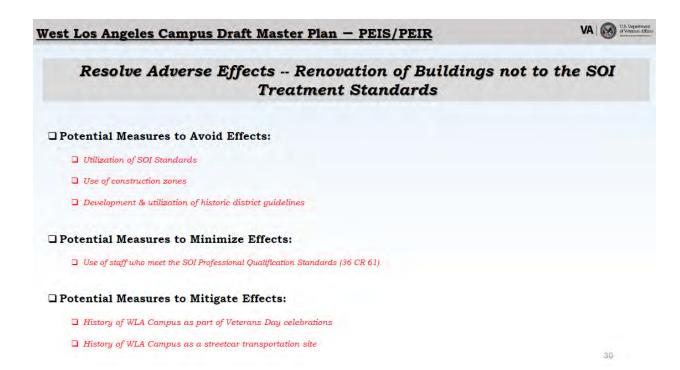
# Develop Measures to Avoid, Minimize, and/or Mitigate Effects to Historic Properties

Consultation

27

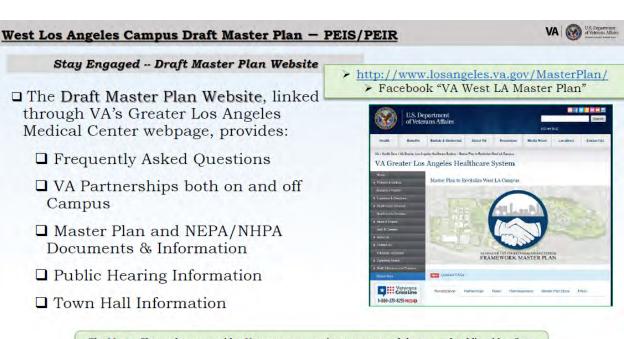
### VA U.S. Departmen of Veterans Affa West Los Angeles Campus Draft Master Plan - PEIS/PEIR Resolve Adverse Effects -- Archaeology Methodology VA is developing a Probability Map of the WLA Campus ☐ Research Questions: ■ Suggestion ☐ Identification Methods: Use of a compilation archaeological report that unifies all archaeological investigations completed in accordance with the Draft Master Plan into one report. VA and SHPO would develop a "short form" or negative findings form for use in this report if investigations do not result in the identification of archaeological deposits. ☐ Use of different identification methods for different probability/sensitivity categories based on probability model. ☐ Use of staff who meet the SOI Professional Qualification Standards (36 CR 61). ☐ Phasing: ■ Suggestion ☐ Potential Measures to Mitigate Effects: with a substitute of

# West Los Angeles Campus Draft Master Plan — PEIS/PEIR Resolve Adverse Effects -- Demolition of Built Contributing Elements to the WLA VA NRHD The SHPO previously noted an objection to the demolition of historic campus buildings. Potential Measures to Minimize Effects: Re-investment of funds Salvage of materials Design guidelines Construction zones Potential Measures to Mitigate Effects: Documentation Commemoration of WLA Campus history through a walking tour-potential to work with outside partners Creation of a WLA Campus archive available to the public



31

# Mest Los Angeles Campus Draft Master Plan − PEIS/PEIR Anticipated Next Steps Continue consultation July 2018: VA will formalize measures into a draft programmatic agreement for Consulting Party review/comment November 2018: VA will release the Draft PEIS/PEIR Following review of public comments on the Draft PEIS/PEIR: VA will execute the programmatic agreement May 2019: VA will release the Final PEIS/PEIR July 2019: VA will release the Record of Decision (ROD)



The Master Plan webpage provides Veterans, community partners, and the general public with a "onestop shop" for centralized Master Plan information and updates on progress and next steps.



### Communication

Consulting Parties and members of the public are encouraged to stay upto-date on the development of the PEIS/PEIR

➤ In-Person Comments: Comments shared during this working session concerning historic properties

### > Paper Mail Comments:

VA Greater Los Angeles Healthcare System Attn: West Los Angeles Campus EIS/EIR Program Manager 11301 Wilshire Blvd., Bldg. 500/Rm. 6411 Los Angeles, CA, 90073

> Electronic Mail Comments: VHAGLAMasterPlan@va.gov

33

# Thank you for participating



WLA Campus Draft Master Plan

### DEPARTMENT OF VETERANS AFFAIRS Greater Los Angeles Healthcare System 11301 Wilshire Boulevard Los Angeles, CA 90073

In Reply Refer To: 691/00PA

February 26, 2018

Ed Carroll
Architectural Review & Environmental Compliance Unit
California Office of Historic Preservation
California State Historic Preservation Office (SHPO)
1725 23rd Street, Suite 100
Sacramento, California 95816

West Los Angeles Healthcare Center 11301 Wilshire Boulevard Los Angeles, CA 90073 (310) 478-3711

Re: Redevelopment of the VA Greater Los Angeles Healthcare System- West Los Angeles Campus in accordance with the Draft Master Plan: Recap of Consultation Meeting on Assessment of Effects and Measures to Avoid, Minimize, and/or Mitigate Adverse Effects to Historic Properties

Dear Mr. Carroll,

On May 19, 2017, the U.S. Department of Veterans Affairs (VA) invited your office to participate in consultation related to the redevelopment of the West Los Angeles campus, 11301 Wilshire Boulevard (WLA campus), of the VA Greater Los Angeles Healthcare System (GLAHS). The goals of this redevelopment are the provisions of permanent supportive housing for Veterans, specifically the chronically homeless, severely disabled, aging, and female Veteran populations, and of related services for these groups and all Veterans in the greater Los Angeles area through implementation of the revised Department of Veterans Affairs Greater Los Angeles Draft Master Plan released in January 2016 and the completion of several campus improvement projects (the Federal Action/Undertaking). The environmental consequences of these actions. including effects to historic resources, are being analyzed in a programmatic Environmental Impact Statement (EIS)/Environmental Impact Report (EIR) in accordance with the National Environmental Policy Act (NEPA) and the California Environmental Quality Act (CEQA); the National Historic Preservation Act (NHPA); and other federal laws, Executive Orders, and VA policies. As you have been previously notified, VA will address its obligations under Section 106 of the NHPA through NEPA analysis in the substitution process described in 36 CFR §800.8.

We have communicated several times on the timing and process of this project, and we welcomed your participation in the Historic Property Consultation Meeting, held via webinar and telephonically on 11/29/17. At that time, we presented the Adverse Effects we anticipate for this project, which are laid out in the PowerPoint presentation we presented at the meeting, and redistributed on 12/1/17 via email.

### Adverse Effects to Historic Properties

These potential adverse effects were presented to the public and representatives of consulting parties during the scoping meetings on June 7, June 8, and June 9, 2017. VA did not receive any objections to the assessment of effects at these meetings, nor from any member of the public or consulting

party since being contacted by VA regarding this assessment. We presented them again on November 29, 2017, which we also submitted to you electronically on December 1, 2017. We continue to seek input on the determinations listed in that PowerPoint.

Assessment of the impacts of the Undertaking on historic properties will be included in the draft programmatic EIS/EIR. This document will be available for review by all consulting parties and members of the public.

### Resolution of Adverse Effects

It is VA's intention to resolve adverse effects in accordance with 36 CFR §800.8 in lieu of 36 CFR §800.6. VA presented preliminary ways to identify measures to avoid, minimize, and/or mitigate adverse effects to historic properties during our Historic Property Consultation Meeting on November 29, 2017. These ideas are included on the PowerPoint presentation submitted to you electronically on December 1, 2017. We continue to seek input on measures to avoid, minimize and/or mitigate adverse effects to historic properties listed in that PowerPoint.

Thank you for your ongoing support of Veterans and your work to preserve the historic resources of California. If you have any questions or require any additional information, please contact me at <a href="VHAGLAMasterPlan@va.gov">VHAGLAMasterPlan@va.gov</a> or VA Greater Los Angeles Healthcare System, Attn: PEIS/PEIR, 11301 Wilshire Boxlevard, Los Angeles, California 90073.

Ann R. Brown, FACHE

Director

Sinderely.

Greater Los Angeles Healthcare System

Cc:

Angela McArdle, Advisory Council on Historic Preservation Robert Dorame, Gabrielino Tongva Indians of California John Tommy Rosas, Tongva Ancestral Territorial Tribal Nation Andrew Salas, Gabrielino Tongva Band of Mission Indians, Kizh Nation Adrian Scott Fine, Los Angeles Conservancy Curtis Mack, Veterans Park Conservancy LaShanda Maze, 1887 Fund



State of California • Natural Resources Agency

Edmund G. Brown Jr., Governor

Lisa Ann L. Mangat, Director

## DEPARTMENT OF PARKS AND RECREATION OFFICE OF HISTORIC PRESERVATION

Julianne Polanco, State Historic Preservation Officer
1725 23rd Street, Suite 100, Sacramento, CA 95816-7100
Telephone: (916) 445-7000 FAX: (916) 445-7053
calshpo.ohp@parks.ca.gov www.ohp.parks.ca.gov

April 12, 2018

WLA Campus Draft Master Plan

Reply in Reference To: VA\_2017\_0522\_001

Ann R. Brown, FACHE
Director
Department of Veterans Affairs
Greater Los Angeles Healthcare System
11301 Wilshire Boulevard
Los Angeles, CA 90037

Re: Section 106 Consultation for the Redevelopment of the VA Greater Los Angeles Healthcare System, Master Plan, West Los Angeles Campus, Los Angeles County

Dear Ms. Brown:

Pursuant to 36 CFR Part 800.8, the Department of Veterans Affairs (VA) are seeking the State Historic Preservation Officer's (SHPO) comments on their joint National Environmental Policy Act (NEPA)/Section 106 undertaking defined as the implementation of the *Department of Veterans Affairs Greater Los Angeles Draft Master Plan* (2016) for redevelopment of the West Los Angeles Campus of the VA Greater Los Angeles Healthcare System.

The VA's February 26, 2018 letter summarized their efforts to communicate with the SHPO, the public and consulting parties since initiating consultation in May 2017. The VA confirmed in the same letter and via email that no additional modifications have been made to the undertaking's scope since a November 29, 2017 teleconference with the SHPO in which the VA presented, via PowerPoint, the undertaking's APE definition, its anticipated adverse effects on historic properties and potential mitigation measures to account for said effects.

The SHPO is now responding to the VA's request for comment on the potential effects to identified historic properties posed by Alternatives A-G, and provide potential avoidance, minimization, and mitigation measures:

 Regarding the 1887 Fund's proposed restoration of five district contributors identified as the Depot, Wadsworth Chapel, Hoover Barracks, Superintendent's Home and the Governor's Mansion, the SHPO understands the VA will ensure that restoration activities will be consistent with the Secretary of the Interior's Standards, that the SHPO will be consulted on all phases of planning and restoration, that effects to historic April 12, 2018 Ann R. Brown Page 2

WLA Campus Draft Master Plan

VA\_2017\_0522\_001

properties stemming from these proposed activities are taken into account and, appropriate mitigation measures will be developed and executed if necessary.

- Pursuant to 36 CFR Part 800.4(a)(1), the SHPO has no objection to the VA's APE definition as the boundaries of the West Los Angeles Campus and the Los Angeles National Cemetery.
- 3) Pursuant to 36 CFR Part 800.4, the SHPO does not object to the VA's identification of built environment historic properties, however the VA's proposed identification and treatment methods of subsurface archeological properties is currently under the SHPO's review and is subject to further comment and clarification.
- 4) Of the VA's eight proposed project alternatives, the SHPO continues to prefer the implementation of Alternatives A or B, both of which emphasize the rehabilitation and reuse of historic properties, exclude demolition and have the potential to avoid adverse effects through the establishment of a design review process in consultation with the SHPO.
- 5) The SHPO does not support the selection of Alternatives C-F which will result in adverse effects caused predominantly by building demolition and/or abandonment rather than reuse and construction design that is incompatible with the historic district's character. Above all, these options do not appear to meet the VA's need for additional space for veteran housing and services.
- 6) During March 23, 2017 and November 29, 2017 meetings, the VA and the SHPO discussed several viable mitigation suggestions including avoidance of demolition, materials salvaging, historic district design guideline development and interpretation of West LA VA campus history within a variety of contexts. The SHPO recommends the VA also explore options for publications, video and website development to reach a wider public audience and looks forward to working with the VA on potential avoidance, minimization, and mitigation measures in the next phase of consultation.

If you have any questions or concerns, contact Ed Carroll of my staff at (916) 445-7006 / Ed.Carroll@parks.ca.gov.

Sincerely,

Julianne Polanco

State Historic Preservation Officer



#### DEPARTMENT OF VETERANS AFFAIRS Greater Los Angeles Healthcare System 11301 Wilshire Boulevard Los Angeles, CA 90073

In Reply Refer To: 691/00PA

September 27, 2018

Thomas Tortez
Tribal Chairperson
Torres Martinez Desert Cahuilla Indians, California
Tribal Administration Building
66-725 Martinez Street
Thermal, California 92274
tmttortez@torresmartinez.org

West Los Angeles Healthcare Center 11301 Wilshire Book Los Angeles, CA 90 (310) 478-3711

RE:

Redevelopment of the VA Greater Los Angeles Healthcare System-West Los Angeles Campus in accordance with the Draft Master Plan: Use of NEPA Analysis Procedures for NHPA Compliance, Invitation to Participate in Consultation Regarding Impacts to Historic Properties, Notification of intent to Prepare a Programmatic Agreement

Dear Chairperson Tortez,

The West Los Angeles (WLA) Campus, 11301 Wilshire Boulevard, Los Angeles, California is part of the larger U.S. Department of Veterans Affairs (VA) Greater Los Angeles Healthcare System (GLAHS) that serves over 90,000 Veterans in Kem, Los Angeles, San Luis Obispo, Santa Barbara, and Ventura Counties. The WLA campus is located at the intersection of Sepulveda Boulevard, Interstate 405 (also known as the San Diego Freeway), and Wilshire Boulevard in the Brentwood neighborhood, and encompasses approximately 388 acres. It is one of the largest medical centers in the VA system, providing a full range of medical services, including state-of-the-art hospital and outpatient care, rehabilitation, residential care, and long-term care services to eligible Veterans.

Public Law 114-226, the West Los Angeles Leasing Act of 2016, enables VA to enhance services on the WLA Campus with the goal of providing permanent supportive housing for Veterans, specifically the chronically homeless, severely disabled, aging, and female Veteran populations, and providing related services for these groups and all Veterans in the greater Los Angeles area. VA intends to make supportive housing and other services available on campus allowing Veterans the choice to live on- or off-campus, and to have access to a more welcoming and healing environment in which to live and receive the care, services, and benefits to which they are entitled. These goals will be accomplished through the implementation of the revised *Department of Veterans Affairs Greater Los Angeles Draft Master Plan* released in January 2016 and completion of several improvement projects (the Federal Action/Undertaking). The Draft Master Plan is available online: http://www.losangeles.va.gov/MasterPlan/. VA anticipates this undertaking will impact elements of the natural, built, and cultural environments.

To adequately analyze and address the anticipated impacts of the proposed undertaking, VA intends to prepare a programmatic Environmental Impact Statement (EIS) in accordance with the National Environmental Policy Act (NEPA); the National Historic Preservation Act (NHPA); and other federal laws, Executive Orders, and VA policies. The environmental effects to be addressed include those identified in 40 CFR 1508.8: historic properties and cultural resources; aesthetics; air quality; geology and soils; hydrology and water quality; wildlife and habitat; noise; land use; floodplains, wetlands, and coastal zone management; socioeconomics; community

WLA Campus Draft Master Plan

services; solid and hazardous materials; transportation, including parking and traffic; utilities; environmental justice; and public involvement whether direct, indirect, or cumulative. Both beneficial and adverse impacts of the proposed action will be analyzed.

VA has revised our initial alternatives. The following alternatives are being reviewed in the programmatic EIS:

- Alternative A: Rehabilitate/renovate existing buildings with or without application of the Secretary of the Interior's Standards for the Rehabilitation;
- 2. Alternative B: Demolish select WLA Campus buildings;
- Alternative C: Demolish select WLA Campus buildings and construct new buildings in the location;
- Alternative D: A combination of actions from Alternatives A, B, and C to best suit VA's specific needs;
- Alternative E is No Action, used to compare the "status quo" to the action alternatives.

VA anticipates that issues addressed in assessing impacts of the alternatives may affect the physical plant of the VA WLA Campus, most of which is a designated historic district. Two WLA Campus buildings are individually listed in the National Register of Historic Places. Additionally, there may be additional archeological sites not yet identified. VA intends to use its NEPA analysis process to consider impacts to historic properties otherwise done under Section 106 of the NHPA (54 USC 306108 and 36 CFR Part 800). This process, referred to as substitution, is described in 36 CFR 800.8(c) and the Handbook for Integrating NEPA and Section 106: <a href="http://www.achp.gov/docs/NEPA">http://www.achp.gov/docs/NEPA</a> NHPA Section 106 Handbook Mar2013.pdf. VA has decided to address potential effects of this undertaking through development of a programmatic agreement.

VA has also invited the following local tribal representatives to participate in the substitution process:

- Chair Andrew Salas, Gabrielino Band of Mission Indians
- Chair Robert Dorame, Gabrielino Tongva Indians of California Tribal Council
- Mr. John Tommy Rosas, Tongva Ancestral Territorial Tribal Nation
- Chair Bernie Acuna, Gabrielino-Tongva Tribe
- Chair Sandonne Goad, Gabrielino/Tongva Nation
- Chair Anthony Morales, Gabrielino/Tongva San Gabriel Band Mission Indians

The first three tribes have accepted our invitation. Additionally, VA requested suggestions for additional Consulting Parties from the California Native American Heritage Commission, and the Los Angeles City/County Native American Indian Commission; no additional suggestions for Consulting Parties were offered.

VA has attached documentation of 36 CFR § 800.3-800.6, which includes the definition of the Undertaking, delineation of the Area of Potential Effect, identification of historic properties, as well as an Archaeological Sensitivity Model of the WLA Campus, and our determination of effect, to assist you in your review. As a federally recognized Tribe, the Torres Martinez Desert Cahuilla Indians, California (Tribe) has been recognized as a potential Consulting Party with an interest in historic properties that may be affected by this Undertaking. Therefore, the Tribe is invited to participate in the substitution process. In accordance with the substitution process, we also invite you to review the draft programmatic EIS when it is released later this fall (anticipated November 2018). VA is planning to host a Consulting Party meeting this fall to discuss a draft programmatic agreement. If you wish to participate, please fill out the enclosed form so VA can supply sufficient notice of the meeting date and

time. If you have further questions regarding this Undertaking, please contact VA, and we would welcome a private meeting to discuss your interests.

Since ely,

Ann R. Brown, FACHE

Director

Greater Los Angeles VA Health Care System

## Helpful Websites Redevelopment of the WLA Campus in accordance with the Draft Master Plan

Draft Master Plan

http://www.losangeles.va.gov/MasterPlan/

National Environmental Policy Act (NEPA)

https://www.epa.gov/nepa

A Citizen's Guide to the National Environmental Policy Act https://ceg.doe.gov/get-involved/citizens\_guide\_to\_nepa.html

The California Environmental Quality Act (CEQA)

http://resources.ca.gov/ceqa/

National Historic Preservation Act (NHPA)

http://www.achp.gov/nhpa.pdf

ACHP Regulations 36 CFR Part 800

http://www.achp.gov/regs-rev04.pdf

Protecting Historic Properties: A Citizen's Guide to Section 106

http://www.achp.gov/docs/CitizenGuide.pdf

NEPA & NHPA: A Handbook for Coordinating NEPA and Section 106

http://www.achp.gov/nepa106.html

Wadsworth Chapel National Register of Historic Places Nomination

https://npqallery.nps.gov/NRHP/AssetDetail?assetID=d8b15062-ff45-468c-b0f8-5caea1056460

Streetcar Depot/Trolley Stop National Register of Historic Places Nomination

https://npgallery.nps.gov/NRHP/AssetDetail?assetID=27c0e4c2-a79a-49e5-ad46-3fa445657175

West Los Angeles Veterans Affairs Historic District National Register of Historic Places Nomination <a href="https://www.nps.gov/nr/feature/places/pdfs/14000926.pdf">https://www.nps.gov/nr/feature/places/pdfs/14000926.pdf</a>



WLA Campus Draft Master Plan

#### DEPARTMENT OF VETERANS AFFAIRS Greater Los Angeles Healthcare System 11301 Wilshire Boulevard Los Angeles, CA 90073

In Reply Refer To: 691/00PA

September 27, 2018

Joseph Ontiveros
Director
Soboba Band of Luiseno Indians, California
23906 Soboba Road
P.O. Box 487
San Jacinto, CA 92583
Email: jontiveros@soboba-nsn.gov

West Los Angeles Healthcare Center 11301 Wilshire Bouleyard Los Angeles CA 30073 (310) 478-3711

RE: Redevelopment of the VA Greater Los Angeles Healthcare System-West Los Angeles Campus in accordance with the Draft Master Plan: Use of NEPA Analysis Procedures for NHPA Compliance, Invitation to Participate in Consultation Regarding Impacts to Historic Properties, Notification of intent

to Prepare a Programmatic Agreement

Dear Director Ontiveros,

The West Los Angeles (WLA) Campus, 11301 Wilshire Boulevard, Los Angeles, California is part of the larger U.S. Department of Veterans Affairs (VA) Greater Los Angeles Healthcare System (GLAHS) that serves over 90,000 Veterans in Kern, Los Angeles, San Luis Obispo, Santa Barbara, and Ventura Counties. The WLA campus is located at the intersection of Sepulveda Boulevard, Interstate 405 (also known as the San Diego Freeway), and Wilshire Boulevard in the Brentwood neighborhood, and encompasses approximately 388 acres. It is one of the largest medical centers in the VA system, providing a full range of medical services, including state-of-the-art hospital and outpatient care, rehabilitation, residential care, and long-term care services to eligible Veterans.

Public Law 114-226, the West Los Angeles Leasing Act of 2016, enables VA to enhance services on the WLA Campus with the goal of providing permanent supportive housing for Veterans, specifically the chronically homeless, severely disabled, aging, and female Veteran populations, and providing related services for these groups and all Veterans in the greater Los Angeles area. VA intends to make supportive housing and other services available on campus allowing Veterans the choice to live on- or off-campus, and to have access to a more welcoming and healing environment in which to live and receive the care, services, and benefits to which they are entitled. These goals will be accomplished through the implementation of the revised *Department of Veterans Affairs Greater Los Angeles Draft Master Plan* released in January 2016 and completion of several improvement projects (the Federal Action/Undertaking). The Draft Master Plan is available online: <a href="http://www.losangeles.va.gov/MasterPlan/">http://www.losangeles.va.gov/MasterPlan/</a>. VA anticipates this undertaking will impact elements of the natural, built, and cultural environments.

To adequately analyze and address the anticipated impacts of the proposed undertaking, VA intends to prepare a programmatic Environmental Impact Statement (EIS) in accordance with the National Environmental Policy Act (NEPA); the National Historic Preservation Act (NHPA); and other federal laws, Executive Orders, and VA policies. The environmental effects to be addressed include those identified in 40 CFR 1508.8: historic properties and cultural resources; aesthetics; air quality; geology and soils; hydrology and water quality; wildlife and habitat; noise; land use; floodplains, wetlands, and coastal zone management; socioeconomics; community

services; solid and hazardous materials; transportation, including parking and traffic; utilities; environmental justice; and public involvement whether direct, indirect, or cumulative. Both beneficial and adverse impacts of the proposed action will be analyzed.

VA has revised our initial alternatives. The following alternatives are being reviewed in the programmatic EIS:

- Alternative A: Rehabilitate/renovate existing buildings with or without application of the Secretary of the Interior's Standards for the Rehabilitation;
- 2. Alternative B: Demolish select WLA Campus buildings;
- Alternative C: Demolish select WLA Campus buildings and construct new buildings in the location;
- Alternative D: A combination of actions from Alternatives A, B, and C to best suit VA's specific needs;
- Alternative E is No Action, used to compare the "status quo" to the action alternatives.

VA anticipates that issues addressed in assessing impacts of the alternatives may affect the physical plant of the VA WLA Campus, most of which is a designated historic district. Two WLA Campus buildings are individually listed in the National Register of Historic Places. Additionally, there may be additional archeological sites not yet identified. VA intends to use its NEPA analysis process to consider impacts to historic properties otherwise done under Section 106 of the NHPA (54 USC 306108 and 36 CFR Part 800). This process, referred to as substitution, is described in 36 CFR 800.8(c) and the Handbook for Integrating NEPA and Section 106: <a href="http://www.achp.gov/docs/NEPA">http://www.achp.gov/docs/NEPA</a> NHPA Section 106 Handbook Mar2013.pdf. VA has decided to address potential effects of this undertaking through development of a programmatic agreement.

VA has also invited the following local tribal representatives to participate in the substitution process:

- Chair Andrew Salas, Gabrielino Band of Mission Indians
- Chair Robert Dorame, Gabrielino Tongva Indians of California Tribal Council
- Mr. John Tommy Rosas, Tongva Ancestral Territorial Tribal Nation
- Chair Bernie Acuna, Gabrielino-Tongva Tribe
- Chair Sandonne Goad, Gabrielino/Tongva Nation
- Chair Anthony Morales, Gabrielino/Tongva San Gabriel Band Mission Indians

The first three tribes have accepted our invitation. Additionally, VA requested suggestions for additional Consulting Parties from the California Native American Heritage Commission, and the Los Angeles City/County Native American Indian Commission; no additional suggestions for Consulting Parties were offered.

VA has attached documentation of 36 CFR § 800.3-800.6, which includes the definition of the Undertaking, delineation of the Area of Potential Effect, identification of historic properties, as well as an Archaeological Sensitivity Model of the WLA Campus, and our determination of effect, to assist you in your review. As a federally recognized Tribe, the Soboba Band of Luiseno Indians, California (Tribe) has been recognized as a potential Consulting Party with an interest in historic properties that may be affected by this Undertaking. Therefore, the Tribe is invited to participate in the substitution process. In accordance with the substitution process, we also invite you to review the draft programmatic EIS when it is released later this fall (anticipated November 2018). VA is planning to host a Consulting Party meeting this fall to discuss a draft programmatic agreement. If you wish to participate, please fill out the enclosed form so VA can supply sufficient notice of the meeting date and

time. If you have further questions regarding this Undertaking, please contact VA, and we would welcome a private meeting to discuss your interests.

Thank you for your interest in historic properties. Please contact me at <a href="https://www.new.gov">wHAGLAMasterPlan@va.gov</a> or VA Greater Los Angeles Healthcare System, Attn: EIS, 11301 Wilshire Boulevard, Building 500/Room 6429K, Los Angeles, California 90073 if you would like to be included to participate in consultation or if you have any questions about this important initiative.

1.

Ann R. Brown, FACHE

Director

Greater Los Angeles VA Health Care System

### Redevelopment of the VA Greater Los Angeles Healthcare System- West Los Angeles Medical Center in accordance with the Draft Master Plan Historic Property Consulting Party Form

Please complete and return this form, or an independent letter, via email to <a href="VHAGLAMasterPlan@va.gov">VHAGLAMasterPlan@va.gov</a> or in hard copy to VA Greater Los Angeles Healthcare System, Attn: EIS 11301 Wilshire Boulevard, Building 500/Room 6429K, Los Angeles, California 90073, reference "WLA Campus Consulting Party." Responses are requested not later than October 17, 2018, in order to allow adequate time to prepare for upcoming meetings.

rganizatio	on:		
Point Contact:	of		
		Title:	
		Address:	
		Email:	
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		Website:	
		Yes, our Tribe would like to participate as a Consulting Party specifically focused on impacts to historic properties that may result from the Redevelopment of the VA WLA Campus. tact us through the information listed above.	
WLA Ca public r above.	amp neet	Our Tribe declines the invitation to be a Consulting Party for the Redevelopment of the VA ous; however, we would like to participate in the broader environmental review process through tings and by receiving general information. Please contact us through the information listed	
WLA ca	ampu	No, our Tribe will not participate in the environmental review process to redevelop the VA us.	

## Helpful Websites Redevelopment of the WLA Campus in accordance with the Draft Master Plan

Draft Master Plan

http://www.losangeles.va.gov/MasterPlan/

National Environmental Policy Act (NEPA)

https://www.epa.gov/nepa

A Citizen's Guide to the National Environmental Policy Act https://ceg.doe.gov/get-involved/citizens\_guide\_to\_nepa.html

The California Environmental Quality Act (CEQA)

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National Historic Preservation Act (NHPA)

http://www.achp.gov/nhpa.pdf

ACHP Regulations 36 CFR Part 800

http://www.achp.gov/regs-rev04.pdf

Protecting Historic Properties: A Citizen's Guide to Section 106

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Wadsworth Chapel National Register of Historic Places Nomination

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Streetcar Depot/Trolley Stop National Register of Historic Places Nomination

https://npgallery.nps.gov/NRHP/AssetDetail?assetID=27c0e4c2-a79a-49e5-ad46-3fa445657175

West Los Angeles Veterans Affairs Historic District National Register of Historic Places Nomination https://www.nps.gov/nr/feature/places/pdfs/14000926.pdf

#### Redevelopment of the VA Greater Los Angeles Healthcare System- West Los Angeles Medical Center in accordance with the Draft Master Plan Historic Property Consulting Party Form

Please complete and return this form, or an independent letter, via email to <a href="https://www.nc.gov">VHAGLAMasterPlan@va.gov</a> or in hard copy to VA Greater Los Angeles Healthcare System, Attn: EIS 11301 Wilshire Boulevard, Building 500/Room 6429K, Los Angeles, California 90073, reference "WLA Campus Consulting Party." Responses are requested not later than October 17, 2018, in order to allow adequate time to prepare for upcoming meetings.

Organizat	ion:		
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consid Please	ering cont	Yes, our Tribe would like to participate as a Consulting Party specifically focused on impacts to historic properties that may result from the Redevelopment of the VA WLA Campus. tact us through the information listed above.	
WLA C public above.	meet	Our Tribe declines the invitation to be a Consulting Party for the Redevelopment of the VA ous; however, we would like to participate in the broader environmental review process through tings and by receiving general information. Please contact us through the information listed	
WLA c	ampu	No, our Tribe will not participate in the environmental review process to redevelop the VA	



#### DEPARTMENT OF VETERANS AFFAIRS Greater Los Angeles Healthcare System 11301 Wilshire Boulevard Los Angeles, CA 90073

October 25, 2018

In Reply Refer To: 691/00PA

West Los Angeles Healthcare Center 11301 Wilshire Boulevard Los Angeles, CA 90073 (310) 478-3711

RE: Programmatic Environmental Impact Statement for the Draft Master
Plan Overseeing the Redevelopment of the VA Greater Los
Angeles Healthcare System –West Los Angeles Campus, Los Angeles, CA
SHPO Reference Number VA 2017 0522 001

Dear Consulting Party,

Thank you for participating in the consultation for the implementation of the draft Master Plan (DMP) for redevelopment of the West Los Angeles (WLA) Campus, 11301 Wilshire Boulevard, of the VA Greater Los Angeles Healthcare System (GLAHS). The goals of the DMP are to provide housing for chronically homeless and at-risk Veterans; to upgrade medical and research facilities; and to create better efficiency across the entire WLA Campus.

VA initiated consultation in May 19, 2017 and notified multiple Consulting Parties of its intent to substitute the National Environmental Policy Act (NEPA) review process for the Section 106 of the National Historic Preservation Act (NHPA) procedures, pursuant to 36 CFR § 800.8. Substitution is designed to streamline both NEPA and NHPA documentation by coordinating parallel steps of each regulation, and using combined, rather than separate, meetings and documents when feasible. VA held NEPA scoping meetings on June 7, 8, and 9, 2017. At that time. VA presented alternatives for implementing the DMP and VA subsequently refined those alternatives based on public comments received after those meetings. These alternatives include future actions that will have an impact on historic properties including the possibility of rehabilitation of historic buildings to the Secretary of the Interior's Standards for Rehabilitation (SOI Standards); renovation of buildings without application of the SOI Standards; demolition of historic and non-historic resources; and/or new construction. During scoping, VA presented the initial steps of the NHPA process, including defining the undertaking, the Area of Potential Effect (APE), the historic properties in that APE, and presented a range of potential effects on those properties. VA also solicited comments from members of the public concerning the undertaking during and after those meetings. The presentations from these meetings are available online at https://www.losangeles.va.gov/masterplan/.

Following scoping, VA continued consultation, and held a working session on November 29, 2017, for Consulting Parties to discuss the steps presented during scoping (described above) and notifying all Consulting Parties that VA intended to resolve adverse effects through development of a programmatic agreement (PA). PAs are often used to resolve adverse effect to complex undertakings, or when effects cannot be determined prior to approval of the project. That meeting specifically sought input on the substitution steps to date, and requested suggestions on ways to avoid, minimize or mitigate the adverse effects of the DMP implementation to historic

properties. The presentations from this meeting were distributed to your organization via email on February 26, 2018.

Since consultation was initiated, VA has been analyzing the impacts of all alternatives for implementing the DMP on the human as well as the built environment. The results of this analysis will be released in a draft programmatic Environmental Impact Statement (PEIS) in November 2018. VA will not select a definite alternative until after completion of the final PEIS and will then document the alternative it selects by publishing a Record of Decision (ROD) (anticipated May 2019). The draft PEIS will include the draft PA, as well as several studies on historic issues that VA conducted to assist in the appropriate management of the WLA VA NRHD.

The DMP is a flexible framework to reconfigure the WLA Campus. VA plans for a developer to use that framework, as well as the measures for mitigation and management of the campus from the PEIS, to establish a comprehensive strategy to develop up to 1200 units of Veteran housing. Because VA will not select an alternative to support the creation of that strategy until after the PEIS is final in 2019, VA developed the draft PA to ensure that NRHP compliance can be fulfilled no matter what alternative is selected. The draft PA provides a way for VA to continue consulting on individual DMP projects based on effects to historic properties and, if adverse effects are unavoidable, allows VA to work with the Consulting Parties to select mitigation measures commensurate with the anticipated effect. The draft PA also recognizes that the character-defining features of the historic campus are more clearly demonstrated in some areas and in some buildings and resources than in others. In order to account for these differences, the PA has identified specific campus zones, and is proposing a three-tiered prioritization list of all contributing resources based on how effectively each resource expresses the criteria for National Register of Historic Places-eligibility. For most of these resources, the character-defining features will relate to the WLA VA National Register Historic District. A process for identifying and evaluating effects to archaeological resources is also provided. Because the PA provides a process to address projects individually, VA will be able to respond flexibly to the needs of the DMP as implemented by the developer, conduct ongoing consultation for the duration of the implementation process, and maintain transparency for public review. Annual reporting to all Consulting Parties is a key part of the PA structure. This draft PA will be included as an appendix to the draft PEIS so external stakeholders and members of the public also can provide comments.

Therefore, VA is requesting comments from your organization on the draft PA via email to VHAGLAMasterPlan@va.gov by November 24, 2018. VA will be hosting a working session for Consulting Parties on the afternoon of either the 13th or 14th of November to answer any questions about the draft PA and receive feedback on the proposed future steps and mitigation measures. To facilitate participation, the working session will be hosted via webinar. For those who wish to participate, VA will distribute information about how to do so once the date is finalized. Please respond to VHAGLAMasterPlan@va.gov by November 9, 2018, if you would like to participate in the working session, and you're a preferred day.

VA also encourages all Consulting Parties to review the draft PEIS when it is released in late November 2018. It will be available on the website noted above. During the public comment period on the draft PEIS, VA will incorporate comments from Consulting Parties into a revised draft PA and recirculate it for further review. VA will also review all comments from the public at the close of the comment period on the draft PEIS on January 29, 2019 and revise the draft PA once more. VA anticipates finalizing the PA in advance of the final PEIS.

VA looks forward to receiving your comments on the draft PA and hopes that your organization will be available to participate in the working session the week of November 12, 2018. Please refer all correspondence to VHAGLAMasterPlan@va.gov for inclusion in the administrative record.

Sincerely,

Meghan Flanz

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Executive Director, West LA Campus Draft Master Plan

Greater Los Angeles Healthcare System

#### CC:

Ed Carroll, California State Historic Preservation Office Angela McArdle, Advisory Council on Historic Preservation Robert Dorame, Gabrielino Tongva Indians of California John Tommy Rosas, Tongva Ancestral Territorial Tribal Nation Andrew Salas, Gabrielino Band of Mission Indians Adrian Scott Fine, Los Angeles Conservancy Curtis Mack, Veterans Park Conservancy Leah Wang, 1887 Fund



Programmatic Agreement for the Draft Master Plan Overseeing the Redevelopment of the VA Greater Los Angeles Healthcare System West Los Angeles Campus, Los Angeles, CA

> November 15, 2018 10:00-11:30 AM



### Agenda

- Welcome / Introductions
- · Review of Process to Date
- Working Session Draft Programmatic Agreement
  - Project Review Process
  - Current Mitigation Proposals
  - Archeology Process
- Next Steps

VA Greater Los Angeles Healthcare System - WLA Campus Draft Master Plan



### Goals of the Draft Master Plan

- To revitalize the Campus to its intended purpose as a home for chronically homeless and severely disabled Veterans
- To upgrade medical and research facilities
- To interconnect services for Veterans throughout the Campus and in the surrounding communities
- To maintain the site's legacy through restoration of original structures, thoroughfares, open space, and natural terrain while developing new facilities that are compatible with the home's scale and character

VA Greater Los Angeles Healthcare System - WLA Campus
Draft Master Plan

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### Redevelopment of the WLA Campus

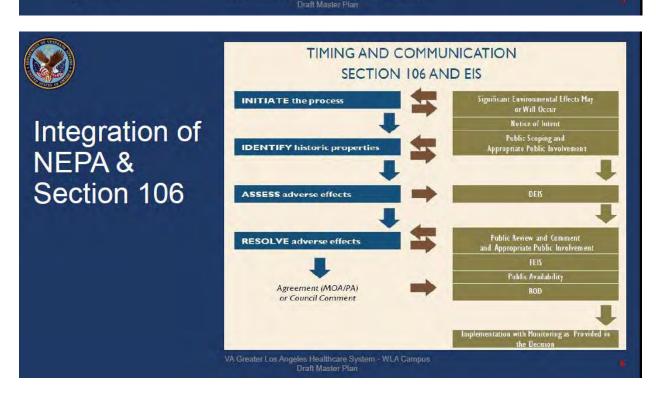
- Will involve a variety of projects planned and prioritized through Veteran and public outreach
- Will be done in partnership with multiple developers
- May include demolition, new construction, renovation, rehabilitation, additions, or a combination of any or all of these
- Because VA cannot know at this time what the projects will involve, VA cannot yet evaluate all of the effects to historic properties
- VA is therefore executing a Programmatic Agreement that will account for any potential effect

VA Greater Los Angeles Healthcare System - WLA Campus Draft Master Plan



## National Historic Preservation Act & National Environmental Policy Act

- · VA must comply with both of these laws
- For NEPA compliance, VA analyzing impacts to resources in a Programmatic Environmental Impact Statement (PEIS)
- VA will be utilizing substitution as addressed in 36 C.F.R. § 800.8(c), "Use
  of the NEPA process for section 106 purposes," to fulfill its NHPA
  responsibilities. The draft PA will therefore be included in the draft PEIS
  (late November 2018) so members of the public can also provide
  comments





### **106 Consultation To Date**

- May 19, 2017 Initiation of the Process / Invitation to Participate / Notification of Intent to Use Substitution
- June 7-9, 2017 Public Scoping Meetings
- November 29, 2017 Consulting Party Working Session / Notification of Intent to Pursue a Programmatic Agreement
- February 26, 2018 Identification of Historic Properties / Assessment of Adverse Effects

VA Greater Los Angeles Healthcare System - WLA Campus Draft Master Plan



### **Alternatives**

#### June 2017 – Notice of Intent

- Alt. A Relocation of Tenants & Renovation/Retrofit of Building for a New Function
- Alt. B Relocation of Tenants & Renovation/Retrofit of Building for the Existing Function
- Alt. C –Relocation of Tenants, Demolition, & New Construction
- Alt. D Relocation of Tenants, Demolition, No Replacement
- Alt. E No Action

#### November 2018 - Draft PEIS

- · Alt . A Existing Building Renovations
- · Alt. B Existing Building Demolition
- · Alt. C Demolition & New Construction
- Alt. D Renovation, Demolition, & New Construction
- · Alt. E No Action

VA Greater Los Angeles Healthcare System - WLA Campus Draft Master Plan



## Development of the Draft Programmatic Agreement

- The PA is a procedural document that records the terms and conditions agreed upon to resolve the potential adverse effects.
- This process will allow VA to comply with the NHPA for any alternative selected
- Since the projects are unknown at this time, the PA will present several steps for each project:
  - Presentation of the project details
  - Finding of the project effects
  - Mitigation measures for types of projects

VA Greater Los Angeles Healthcare System - WLA Campus Draft Master Plan



### Preservation Priorities

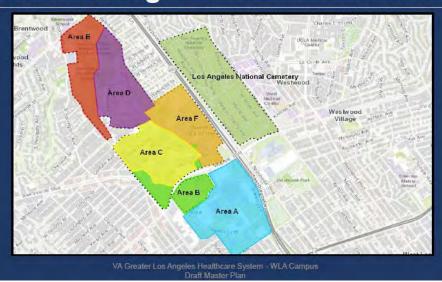
- VA has identified "Preservation Priorities" for the WLA Campus
- This will distinguish historic buildings that are most representative of the historic character of WLA Campus development from those that are less representative
- The PA also identifies different areas of the campus, based on those historic development periods

VA Greater Los Angeles Healthcare System - WLA Campus Draft Master Plan

WLA Campus Draft Master Plan



### **West Los Angeles Preservation Areas**





### Proposed Project Review Process

- · VA will submit a Project Review Form (PRF) to SHPO that will:
  - Describe the project(s)
  - · Describe the effect of the project on historic properties, if any
  - · If there are adverse effects, propose a mitigation measure
- Post the PRF to the Draft Master Plan website
- SHPO can then provide comment, concurrence, or recommendations
  - · In every case, SHPO has no less than two opportunities to review
  - If, after that time, VA and SHPO cannot agree, VA can request review and concurrence from the Advisory Council on Historic Preservation
- Comments / Ideas from Consulting Parties

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### **Current Mitigation Proposals**

- As a part of the mitigation, VA will develop a Campus Historic Resource Plan (CHRP) in consultation with SHPO to avoid and/or minimize adverse effects to historic properties
  - The CHRP will utilize the Secretary of Interior's Standards for Rehabilitation and provide design guidelines for the entire WLA Campus
- Project-specific mitigation measures will be commensurate with the effect and the affected Preservation Priority
  - Veteran training program; oral history program; historic app; wellness trail; playground; annual reunion; architectural salvage; public history display
- · Comments / Ideas from Consulting Parties

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### **Archaeology Process**

- VA, in consultation with SHPO and local Native American groups, completed an archaeological sensitivity model
  - This identifies areas of the campus that are low, moderate and high sensitivity for prehistoric and historic archaeological sites
  - · Based on that sensitivity, recommends different procedures for identifying those sites
- The PA then outlines processes for VA, with SHPO input, to evaluate sites for their eligibility for the National Register of Historic Places, and how to mitigate them, if they cannot be avoided
- Comments / Ideas from Consulting Parties

VA Greater Los Angeles Healthcare System - WLA Campus Draft Master Plan



### **Archaeological Sensitivity**



Predicted Sensitivity for Historic and Prehistoric Archaeology

- Green Low
- Yellow Moderate
- Red High

/A Greater Los Angeles Healthcare System –WLA Campus Draft Master Plan



### **Anticipated Next Steps**

- Late November 2018 Release of draft Programmatic Environmental Impact Statement including the draft PA
- Mid-January 2019 draft PEIS Public Meetings
- Late January 2019 Close of Public Comment Period on draft PEIS and draft PA
- February 2019 Release of revised draft PA
- March 2019 Close of Comment Period on draft PA
- Spring 2019 Execute PA
- May 2019 Release final PEIS

VA Greater Los Angeles Healthcare System - WLA Campus Draft Master Plan



### **Questions & Comments**

- In-Person: Comments shared during this working session concerning historic properties
- · Paper Mail:

VA Greater Los Angeles Healthcare System Attn: West Los Angeles Campus PEIS Program Manager 11301 Wilshire Blvd., Bldg. 500/Rm. 6429K Los Angeles, California 90073

- Email: VHAGLAMasterPlan@va.gov or Meghan Serwin@va.gov
- Website: www.westladraffmasterplan.org
- · Facebook: "VA West LA Master Plan"

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# Thank you for your continued participation

VA Greater Los Angeles Healthcare System - WLA Campus Draft Master Plan ı.