Harbor Department
Agree and
City of for Angeles
21.7700

STATE OF CALIFORNIA - CALIFORNIA TRANSPORTATION COMMISSION

CTC-0001 (NEW 07/2018)

ROAD REPAIR AND ACCOUNTABILITY ACT OF 2017 PROJECT BASELINE AGREEMENT

SR47/VT Bridge & Front St/Harbor Blvd Interchange Reconfiguration

	Resolution TOER D 2004 07B
	TCEP-P-2021-07B (will be completed by CTC)
1,	FUNDING PROGRAM
	Active Transportation Program
	Local Partnership Program (Competitive)
	Solutions for Congested Corridors Program
	State Highway Operation and Protection Program
	☐ Trade Corridor Enhancement Program
2.	PARTIES AND DATE
2.1	This Project Baseline Agreement (Agreement) for the SR47/VT Bridge & Front St/Harbor Blvd Interchange Reconfiguration, effective on, June 23, 2021 (will be completed by CTC), is made by and between the California Transportation Commission (Commission), the California Department of Transportation (Caltrans), the Project Applicant, City of Los Angeles Harbor Department, and the Implementing Agency, City of Los Angeles Harbor Department, sometimes collectively referred to as the "Parties".
3.	RECITAL
3.2	Whereas at its Commission Programmed Project Date meeting the Commission approved the Trade Corridor Enhancement Program, and included in this program of projects the SR47/VT Bridge & Front St/Harbor Blvd Interchange Reconfiguration, the parties are entering into this Project Baseline Agreement to document the project cost, schedule, scope and benefits, as detailed on the Project Programming Request Form attached hereto as Exhibit A and the Project Report attached hereto as Exhibit B, as the baseline for project monitoring by the Commission.
3.3	The undersigned Project Applicant certifies that the funding sources cited are committed and expected to be available; the estimated costs represent full project funding; and the scope and description of benefits is the best estimate possible.
4.	GENERAL PROVISIONS
4,	The Project Applicant, Implementing Agency, and Caltrans agree to abide by the following provisions:
4.1	To meet the requirements of the Road Repair and Accountability Act of 2017 (Senate Bill [SB] 1, Chapter 5, Statutes of 2017) which provides the first significant, stable, and on-going increase in state transportation funding in more than two decades.
4.2	To adhere, as applicable, to the provisions of the Commission:
	Resplution Insert Number, . "Adoption of Program of Projects for the Active Transportation Program".
	Resolution Insert Number, "Adoption of Program of Projects for the Local Partnership Program", dated
	Resolution Insert Number , "Adoption of Program of Projects for the Solutions for Congested Corridors Program", dated
	Resolution Insert Number, "Adoption of Program of Projects for the State Highway Operation and Protection Program", dated
	Resolution G-20-77, "Adoption of Program of Projects for the Trade Corridor Enhancement Program", dated December 2, 2020

- 4.3 All signatories agree to adhere to the Commission's Guidelines. Any conflict between the programs will be resolved at the discretion of the Commission.
- 4.4 All signatories agree to adhere to the Commission's SB 1 Accountability and Transparency Guidelines and policies, and program and project amendment processes.
- 4.5 The City of Los Angeles Harbor Department agrees to secure funds for any additional costs of the project.
- 4.6 The City of Los Angeles Harbor Department agrees to report to Caltrans on a quarterly basis; after July 2019, reports will be on a semi-annual basis on the progress made toward the implementation of the project, including scope, cost, schedule, outcomes, and anticipated benefits.
- 4.7 Caltrans agrees to prepare program progress reports on a quarterly basis; after July 2019, reports will be on a semi-annual basis and include information appropriate to assess the current state of the overall program and the current status of each project identified in the program report.
- 4.8 The City of Los Angeles Harbor Department agrees to submit a timely Completion Report and Final Delivery Report as specified in the Commission's SB 1 Accountability and Transparency Guidelines.
- 4.9 All signatories agree to maintain and make available to the Commission and/or its designated representative, all work related documents, including without limitation engineering, financial and other data, and methodologies and assumptions used in the determination of project benefits during the course of the project, and retain those records for four years from the date of the final closeout of the project. Financial records will be maintained in accordance with Generally Accepted Accounting Principles.
- 4.10 The Transportation Inspector General of the Independent Office of Audits and Investigations has the right to audit the project records, including technical and financial data, of the Department of Transportation, the Project Applicant, the Implementing Agency, and any consultant or sub-consultants at any time during the course of the project and for four years from the date of the final closeout of the project, therefore all project records shall be maintained and made available at the time of request. Audits will be conducted in accordance with Generally Accepted Government Auditing Standards.

5. SPECIFIC PROVISIONS AND CONDITIONS

5.1 Project Schedule and Cost

See Project Programming Request Form, attached as Exhibit A.

5.2 Project Scope

See Project Report or equivalent, attached as Exhibit B. At a minimum, the attachment shall include the cover page, evidence of approval, executive summary, and a link to or electronic copy of the full document.

5.3 Other Project Specific Provisions and Conditions

In the event of a cost overrun the state will cover a share proportionate to the state contribution of the TCEP funding identified in the Project Programming Request (PPR) submitted with this baseline agreement. (For example, if the state/regional TCEP funding share was a 40/60 ratio, the state may fund no more than 40% of the cost overrun.)

Attachments:

Exhibit A: Project Programming Request Form

Exhibit B: Project Report

SIGNATURE PAGE TO PROJECT BASELINE AGREEMENT

SR47/VT Bridge & Front St/Harbor Blvd Interchange Reconfigura

Resolution TCEP-P-2021-07B	
(Rel attached)	Date
City of Los Angeles Harbor Department	
Project Applicant	
(see attached)	Date
City of Los Angeles Harbor Department	
Implementing Agency	
Jung Jawans	4/27/2021
	Date
District Director	
California Department of Transportation	
Toks Omishakin	0 17 2 Date
Director	
Callfornia Department of Transportation	
Wileh W-	07/16/21
Mitchell Weiss	Date
Executive Director	
California Transportation Commission	

THE CITY OF LOS ANGELES by its Board of Harbor Commissioners

EUGENE D. SEROKA, Executive Director

AMBER M. KLESGES, Board Secretary

APPROVED AS TO FORM AND LEGALITY:

, 2021

MICHAEL N. FEUER, City Attorney JANNA B. SIDLEY, General Counsel

Estelle M. Braaf, Deputy City Attorney

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION PROJECT PROGRAMMING REQUEST (PPR)

PRG-0010 (REV 08/2020)

PPR ID ePPR-0723-2020-0009 v0

Amendment (Existing Project) YES NO Date 06/04/2021 10:32:58											
Programs											
District	EA	Project ID	PPNO	Nominatir	ng Agency						
07	31850	0715000304	5088	Port of Los Angeles							
County Route		PM Back	PM Ahead	Co-Nomina	ating Agency						
Los Angeles	47	0.300	0.800								
				MPO	Element						
				SCAG Local Assistance							
Pr	oject Manager/Cont	act	Phone	Email A	Address						
	Kerry Cartwright		310-732-7702	kcartwright	@portla.org						
Project Title											

State Route 47-Vincent Thomas Bridge and Harbor Boulevard-Front Street Interchange Improvement Project

Location (Project Limits), Description (Scope of Work)

The project entails modifying the existing on- and off-ramps to improve safety, access, and the efficient operation of the SR-47 / Front Street / Harbor Blvd Interchange. (See Page 2 for additional project information). Both SR 47 and Front Street are USDOT National Highway System (NHS) Intermodal Connector Routes, and thus on the National Highway Freight Network (NHFN) - Primary Highway Freight System (PHFS). The project is contained in the State's federally required and approved freight plan (2014 California Freight Mobility Plan and 2018 update currently being reviewed by USDOT). (See Additional Information for detailed scope).

Component			Implementing A	Agency	
PA&ED	Port of Los Angeles	3			
PS&E	Port of Los Angeles	3			
Right of Way	Port of Los Angeles	3			
Construction	Port of Los Angeles	3			
Legislative Districts					
Assembly:	70	Senate:	35	Congressional:	44
Project Milestone				Existing	Proposed
Project Study Report	Approved			04/05/2017	
Begin Environmental	(PA&ED) Phase				07/01/2017
Circulate Draft Enviro	onmental Document	Document Type	(ND/MND)/FONSI		10/15/2018
Draft Project Report					05/08/2018
End Environmental F	Phase (PA&ED Milestone))			06/30/2019
Begin Design (PS&E) Phase				12/10/2018
End Design Phase (F	Ready to List for Advertise	ement Milestone)			05/31/2022
Begin Right of Way F	Phase				10/01/2021
End Right of Way Ph	ase (Right of Way Certific	cation Milestone)			12/31/2021
Begin Construction F	Phase (Contract Award M	ilestone)			12/01/2022
End Construction Ph	ase (Construction Contra	ct Acceptance Miles	stone)		11/30/2025
Begin Closeout Phas	se				12/01/2025
End Closeout Phase	(Closeout Report)				05/31/2026

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

PROJECT PROGRAMMING REQUEST (PPR)

PRG-0010 (REV 08/2020)

PPR ID ePPR-0723-2020-0009 v0

Date 06/04/2021 10:32:58

Purpose and Need

Currently, westbound SR-47 traffic and southbound I-110 traffic exit at Harbor Boulevard, creating safety and operational issues due to significant weaving as traffic approaches the intersection. Nonstandard weaving exists as merging traffic approaches the intersection from both the Westbound SR-47 off ramp and the Southbound I-110 off ramp. Nonstandard merging also exists on the Eastbound SR-47 on-ramp from Harbor Boulevard as traffic approaches the Vincent Thomas Bridge. Traffic routinely backs up onto both off-ramps during the peak period as a result of the two freeways (I-110 & SR-47) terminating at the same point. With the projected future background growth and the development of the Waterfront, the Harbor Department anticipates that traffic back up will increase and greatly reduce the operational efficiency of the interchange.

NHS Improvements X YES NO	Roadway Class 1	Roadway Class 1 Reversible Lane Analysis							
Inc. Sustainable Communities Strategy Goals 🛛 YES 🗌 NO Reduce Greenhouse Gas Emissions 🖂 YES 🗌 NO									
Project Outputs									
Category	Outputs	Unit	Total						
Other	Port Improvements	EA	1						
Operational Improvement	Interchange modifications	EA	1						
Operational Improvement	Intersection / Signal improvements	FΔ	1						

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

PROJECT PROGRAMMING REQUEST (PPR)

PRG-0010 (REV 08/2020)

PPR ID ePPR-0723-2020-0009 v0

Date 06/04/2021 10:32:58

Additional Information

Project Scope (Continued):

To address these needs the project entails the following scope:

- Removal of the existing westbound SR 47/Vincent Thomas (VT) Bridge off-ramp with Harbor Boulevard, which eliminates an unsafe and highly congested weave, with high truck volumes
- Construction of new westbound SR 47/VT Bridge off-ramp (north of Bridge) with Front Street; including a new traffic signal that enables consolidation of two, closely spaced intersections
- Realignment of existing eastbound SR 47/VT Bridge on-ramp from Harbor Boulevard further to the west to increase eastbound merge length by 325 feet and reduce grade by 1.2%; both of which improves safety and traffic operations, especially given high truck volume (25%-40%)
- Modification of the eastbound off-ramp/auxiliary lane from I-110 connector and Gaffey Street to provide two lanes to the off-ramp, with the interior lane as a shared thru/off-ramp lane
- · Removal of POLA-owned rail spur that is no longer in service

Project Benefits:

- •Net present value benefit of \$134.929.104; benefit-cost ratio = 3.3
- •Reduces vehicle (autos & trucks) delay & travel time by 5,630 vehicle-hours/day on National Highway Freight Network (NHFN) Primary Highway Freight System (PHFS) routes
- •Improves traffic operating conditions (levels of service) on the NHFN-PHFS
- •Reduces accident potential due to reduced VHT & elimination of non-standard merges/weaves
- •Reduce emissions in the San Pedro and Wilmington communities, which are State designated "Disadvantaged/Low Income Communities" and also two of the State's highest ranked communities in the California Communities Environmental Health Screening Tool (CalEnviroScreen 3.0, 2018)

Project cost increased from \$60.355M to \$70.5M due to unforeseen geotechnical conditions encountered during site investigative work during PS&E. These conditions require settlement mitigation and monitoring during construction and will not change the final improvement scope of the project. Three of the six retaining walls identified will now be non-standard soldier pile systems and additional utility relocations are required. Furthermore, general refinement of scope details with design progression and updated unit pricing also contributed to cost increase. Net Present Value and Benefit Cost Ratio was updated on the Performance Indicator and Measures section and on this section to reflect project cost increase stated above. Also, Benefit Cost Ratio above was previously shown as 3.8 due to a typo, correct number should have been 3.9 in this section, and is now 3.3.

Additionally, 5 months were added to the project schedule to account for the delays in preparing alternative settlement mitigation methods and design.

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION PROJECT PROGRAMMING REQUEST (PPR)

PRG-0010 (REV 08/2020)

PPR ID ePPR-0723-2020-0009 v0

		Performance Indica	ators and Measure	S		
Measure	Required For		Unit	Build	Future No Build	Change
Congestion Reduction	TCEP	Daily Vehicle Hours of Travel Time Reduction	Hours	2,440	8,070	-5,630
	TCEP	Daily Truck Trips	# of Trips	0	0	0
	TCEP	Daily Truck Miles Traveled	Miles	0	0	0
Throughput	TCEP	Change in Truck Volume That Can Be Accommodated	# of Trucks	0	0	0
	TCEP	Change in Rail Volume That Can Be	# of Trailers	0	0	0
	TOET	Accommodated	# of Containers	0	0	0
	TCEP	Change in Cargo Volume That Can Be	# of Tons	0	0	0
	. 02.	Accommodated	# of Containers	0	0	0
System Reliability	TCEP	Truck Travel Time Reliability Index	Index	0	0	0
	TCEP	Daily Vehicle Hours of Travel Time Reduction	Hours	2,440	8,070	-5,630
Velocity	TCEP	Travel Time or Total Cargo Transport Time	Hours	630	1,930	-1,300
Air Quality &	LPPF, LPPC,	Particulate Matter	PM 2.5 Tons	0	0	0
GHG	SCCP, TCEP	raiticulate iviattei	PM 10 Tons	0	0	0
	LPPF, LPPC, SCCP, TCEP	Carbon Dioxide (CO2)	Tons	-5,927	0	-5,927
	LPPF, LPPC, SCCP, TCEP	Volatile Organic Compounds (VOC)	Tons	-1	0	-1
	LPPF, LPPC, SCCP, TCEP	Sulphur Dioxides (SOx)	Tons	0	0	0
	LPPF, LPPC, SCCP, TCEP	Carbon Monoxide (CO)	Tons	-15	0	-15
	LPPF, LPPC, SCCP, TCEP	Nitrogen Oxides (NOx)	Tons	-14	0	-14
Safety	LPPF, LPPC, SCCP, TCEP	Number of Non-Motorized Fatalities and Non-Motorized Serious Injuries	Number	0	0	0
	LPPF, LPPC, SCCP, TCEP	Number of Fatalities	Number	0.178	0.195	-0.017
	LPPF, LPPC, SCCP, TCEP	Fatalities per 100 Million VMT	Number	0.285	0.312	-0.027
	LPPF, LPPC, SCCP, TCEP	Number of Serious Injuries	Number	0.536	0.582	-0.046
	LPPF, LPPC, SCCP, TCEP	Number of Serious Injuries per 100 Million VMT	Number	0.857	0.93	-0.073
Economic Development	LPPF, LPPC, SCCP, TCEP	Jobs Created (Direct and Indirect)	Number	350	0	350
Cost Effectiveness	LPPF, LPPC, SCCP, TCEP	Cost Benefit Ratio	Ratio	3.3	0	3.3

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

PROJECT PROGRAMMING REQUEST (PPR)

PRG-0010 (REV 08/2020)

PPR ID ePPR-0723-2020-0009 v0

District	County	Route	EA	Project ID	PPNO
07	Los Angeles	47	31850	0715000304	5088
Project Title					

State Route 47-Vincent Thomas Bridge and Harbor Boulevard-Front Street Interchange Improvement Project

		Exist	ing Total P	roject Cost	(\$1,000s)				
Component	Prior	20-21	21-22	22-23	23-24	24-25	25-26+	Total	Implementing Agency
E&P (PA&ED)									Port of Los Angeles
PS&E									Port of Los Angeles
R/W SUP (CT)									Port of Los Angeles
CON SUP (CT)									Port of Los Angeles
R/W									Port of Los Angeles
CON									Port of Los Angeles
TOTAL									
		Propo	sed Total F	Project Cos	t (\$1,000s)	•			Notes
E&P (PA&ED)	1,075							1,075	
PS&E	3,450	1,788	3,512					8,750	
R/W SUP (CT)									
CON SUP (CT)			1,209	1,727	3,523			6,459	
R/W									
CON			19,174	15,523	18,272	1,230	17	54,216	
TOTAL	4,525	1,788	23,895	17,250	21,795	1,230	17	70,500	
	1								
Fund #1:	Local Fund								Program Code
	1			ınding (\$1,0					
Component	Prior	20-21	21-22	22-23	23-24	24-25	25-26+	Total	Funding Agency
E&P (PA&ED)									Port of Los Angeles
PS&E									
R/W SUP (CT)									
CON SUP (CT)									
R/W									
CON									
TOTAL									
		F	Proposed F	unding (\$1,	000s)				Notes
E&P (PA&ED)	75							75	
PS&E	160	1,788	3,512					5,460	
	1								
R/W SUP (CT)									
CON SUP (CT)									
CON SUP (CT)									
CON SUP (CT)			3,512				17 17	17 5,552	

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION PROJECT PROGRAMMING REQUEST (PPR)

PRG-0010 (REV 08/2020)

PPR ID ePPR-0723-2020-0009 v0

	3/2020)								
Fund #2:	Local Fund	ls - Measu	re R (Comm	nitted)					Program Code
Component	Prior	20-21	21-22	22-23	23-24	24-25	25-26+	Total	Funding Agency
E&P (PA&ED)									Los Angeles County Metropolitan Tra
PS&E									
R/W SUP (CT)									
CON SUP (CT)									
R/W									
CON									
TOTAL									
			Proposed F	unding (\$1	000s)		•		Notes
E&P (PA&ED)	540							540	
PS&E	3,290							3,290	
R/W SUP (CT)									
CON SUP (CT)			1,209	1,727	3,523			6,459	
R/W									
CON			5,791	8,273	16,872			30,936	
TOTAL	3,830		7,000	10,000	20,395			41,225	
Fund #3:	Federal Dis	sc Port I	nfrastructure	Developm	ent Prograi	m (Commit	ted)		Program Code
			Existing Fu	ınding (\$1,0	000s)				
Component	Prior	20-21	21-22	22-23	23-24	24-25	25-26+	Total	Funding Agency
E&P (PA&ED)									
PS&E									
R/W SUP (CT)									
CON SUP (CT)									
R/W									
CON									
TOTAL									
			Proposed F	unding (\$1	000s)				Notes
E&P (PA&ED)									U.S.D.O.T.
PS&E									
R/W SUP (CT)									
CON SUP (CT)									
R/W									
CON				7,250	1,400	1,230		9,880	
TOTAL				7,250	1,400	1,230		9,880	

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION PROJECT PROGRAMMING REQUEST (PPR)

PRG-0010 (REV 08/2020)

PPR ID ePPR-0723-2020-0009 v0

Fund #44: State SB1 TCEP - Trade Cordiors Enhancement Account (Committed) Program Code Existing Funding (\$1,000s) Component Prior 20-21 21-22 22-23 23-24 24-25 25-26+ Total Funding Agency E&P (PA&ED) PS&E S California Transportation Commission PS&E S S S S California Transportation Commission S	PRG-0010 (REV 08	5/2020)								
Component	Fund #4:	State SB1 TCEP - Trade Corridors Enhancement Account (Committed)								Program Code
E&P (PA&ED)				Existing Fu	unding (\$1,	,000s)				
PS&E R/W SUP (CT) CON SUP (CT) R/W CON TOTAL Proposed Funding (\$1,000s) REGIONAL PROPOSED FUNDING (\$1,000s) REGIONAL REGI	Component	Prior	20-21	21-22	22-23	23-24	24-25	25-26+	Total	Funding Agency
RW SUP (CT)	E&P (PA&ED)									California Transportation Commissio
CON SUP (CT) R/W CON C	PS&E									
R/W	R/W SUP (CT)									
CON TOTAL	CON SUP (CT)									
Notes	R/W									
Proposed Funding (\$1,000s) Notes	CON									
E&P (PA&ED) REGIONAL PS&E RW SUP (CT) CON SUP (CT) Image: Construction of the property of the page o	TOTAL									
PS&E				Proposed F	unding (\$1	I,000s)				Notes
R/W SUP (CT)	E&P (PA&ED)									REGIONAL
CON SUP (CT)	PS&E									
R/W	R/W SUP (CT)									
CON 13,383 13,383 TOTAL 13,383 13,383 Fund #5: Local Funds - Measure R (Committed) Program Code Existing Funding (\$1,000s) Component Prior 20-21 21-22 22-23 23-24 24-25 25-26+ Total Funding Agency E&P (PA&ED) South Bay Cities Council of Governm South Bay Cities Council of Governm PS&E RW South Bay Cities Council of Governm RW South Bay Cities Council of Governm Faw South Bay Cities Council of Governm PS&E South Bay Cities Council of Governm RW South Bay Cities Council of Governm Proposed Funding (\$1,000s) Notes E&P (PA&ED) 460 460 PS&E Faw South Bay Cities Council of Governm PS&E South Bay Cities Council of Governm Notes E&P (PA&ED) 460 460 PS&E South Bay Cities Council of Governm Notes	CON SUP (CT)									
TOTAL 13,383 13,383 Program Code	R/W									
Fund #5: Local Funds - Measure R (Committed) Existing Funding (\$1,000s)	CON			13,383					13,383	
Existing Funding (\$1,000s)	TOTAL			13,383					13,383	
Component	Fund #5:	Local Fund	ds - Measu	re R (Comn	nitted)					Program Code
E&P (PA&ED) South Bay Cities Council of Governm PS&E R/W SUP (CT) CON SUP (CT) R/W CON TOTAL Proposed Funding (\$1,000s) E&P (PA&ED) 460 PS&E R/W SUP (CT) CON SUP (CT) CON SUP (CT) R/W CON				Existing Fu	unding (\$1,	,000s)				
PS&E R/W SUP (CT) CON SUP (CT) R/W CON TOTAL Proposed Funding (\$1,000s) E&P (PA&ED) 460 PS&E R/W SUP (CT) CON SUP (CT) CON SUP (CT) R/W CON R/W CON R/W CON R/W CON R/W CON	Component	Prior	20-21	21-22	22-23	23-24	24-25	25-26+	Total	Funding Agency
R/W SUP (CT)	E&P (PA&ED)									South Bay Cities Council of Governm
CON SUP (CT) R/W CON TOTAL Proposed Funding (\$1,000s) E&P (PA&ED) 460 PS&E R/W SUP (CT) CON SUP (CT) R/W CON	PS&E									
R/W CON Proposed Funding (\$1,000s) Notes E&P (PA&ED) 460 460 PS&E R/W SUP (CT) CON SUP (CT) R/W CON CON	R/W SUP (CT)									
CON Proposed Funding (\$1,000s) Notes E&P (PA&ED) 460 460 PS&E R/W SUP (CT) CON SUP (CT) R/W CON CON	CON SUP (CT)									
TOTAL Proposed Funding (\$1,000s) E&P (PA&ED) 460 PS&E R/W SUP (CT) CON SUP (CT) R/W CON	R/W									
Proposed Funding (\$1,000s) E&P (PA&ED)	CON									
E&P (PA&ED) 460 PS&E R/W SUP (CT) CON SUP (CT) R/W CON	TOTAL									
PS&E R/W SUP (CT) CON SUP (CT) R/W CON				Proposed F	unding (\$1	I,000s)		•		Notes
R/W SUP (CT)	E&P (PA&ED)	460							460	
CON SUP (CT) R/W CON	PS&E									
R/W CON CON	R/W SUP (CT)									
CON	CON SUP (CT)									
	R/W									
TOTAL 460 460	CON									
	TOTAL	460							460	

07 - LA - 047, PM 0.3 / 0.8 EA 07-31850 - 0715000304-5088 June 2019

Project Report

For Project Approval

	On Route	SR-47								
	Between	acific Avenue Undercrossing								
	And	Vincent Thomas Bridge								
	to, comple	-of-way information contained in this report and the Ri ted by the Port of Los Angeles (POLA) and its consulta procedures:	~ .							
		Jan Bundan C								
		Andrew P. Nierenberg, Deputy District Dire	ctor, Right of Way							
APPROVAL R	ECOMMEN	IDED: (~ ~							
PROJECT API	PROVED:	John Vassiliades, Project Ma	nager							
	(******	C'pm will	6-10-19							
		David M. Walsh, PE, Port of Los Angeles	Date							
		Project Sponsor	6/21/19							
		John Bulinski, District Director	Date							
		w.A								

Vicinity Map

LOS ANGELES

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This project report has been prepared under the direction of the following registered civil engineer. The registered civil engineer attests to the technical information contained herein and the engineering data upon which recommendations, conclusions, and decisions are based.

Brad Slawson

Registered Civil Engineer

6-3-19

Date



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1. INTRODUCTION

The Port of Los Angeles (POLA), in cooperation with the City of Los Angeles and Caltrans District 7, proposes The State Route 47/Vincent Thomas Bridge and Harbor Boulevard/Front Street Interchange Reconfiguration. This proposed project would improve safety and operation for vehicles exiting the highway. Proposed improvements also include modification of the entrance ramps and modification of Harbor Boulevard and Front Street approaching and between the ramp termini intersections.

Project Limits	07-LA-047 - 0.3/0.8					
Number of Alternatives	2					
	Current Cost Estimate: (2019)	Escalated Cost Estimate: (2021)				
Capital Outlay Support	\$9.0 M	\$9.5 M				
Capital Outlay Construction	\$22.0 M	\$23.7 M				
Capital Outlay Right of Way	\$9.4 M \$9.8 M					
Funding Source	Measure R					
Funding Year	2020					
Type of Facility	Four-lane expressway					
Number of Structures	No new or modified structu	ıres				
Environmental Determination or Document	ND / FONSI					
	IN LOS ANG	ELES COUNTY				
Legal Description	IN LOS ANGELES FROM PACIFIC AVENUE					
	UNDERCROSSING TO \	/INCENT THOMAS BRIDGE				
Project Development Category	Category 4B					

2. RECOMMENDATION

It is recommended that the project be approved and that the project proceed to the next phase. The local agencies have been consulted with respect to the build alternative, have had their views considered, and are in general accord with the project.

3. BACKGROUND

3A. Project History

Interchange reconfiguration at State Route 47 and Harbor Boulevard/Front Street was originally identified in the Port of Los Angeles' West Basin Roadway Improvement Study, completed in September 2007. The project was added to the 2012 Regional Transportation Plan for Southern California Association of Governments. The Engineering Division of the Port of Los Angeles (POLA) has secured funding for the Project Initiation and Project Approval phases as well as funds for final Design and Construction phases.

POLA and Caltrans completed and approved a Project Study Report (PSR) featuring two build alternatives for this project on March 5, 2017. One build alternative considered in the Project Study Report (PSR) has been eliminated. The rejected alternative contained less desirable geometry and additional structure costs due to a required separation with the adjacent rall line. It was determined that this rail property could be eliminated and the alternative was dropped. Traffic volumes for the build and no-build alternatives were updated to support technical studies and are reflected in this Project Report. Following review of the comments received during public circulation of the IS/EA, the Project Development Team (PDT) chose the Build Alternative as the Preferred Alternative.

3B. Community Interaction

The Port of Los Angeles conducts monthly meetings with the leadership from the local neighborhood councils and chambers of commerce. Through these meetings, the Port will communicate the planned project's need and purpose, general time line, and project description to the public and local officials. A project Public Hearing took place on October 17, 2018 during public circulation of the environmental document.

3C. Existing Facility

This section of State Route 47 is a four-lane expressway which connects Route 110 in San Pedro to Terminal Island via the Vincent Thomas Bridge. The Harbor Boulevard/Front Street Interchange is immediately adjacent to the west abutment of the Vincent Thomas Bridge (VTB). The existing interchange is a modified folded-diamond configuration featuring a westbound two lane off-ramp that loops beneath the mainline to join the eastbound single lane off-ramp in a shared three lane exit terminus at Harbor Boulevard, south of SR-47.

The two lane eastbound on-ramp from Harbor Boulevard, south of SR-47, drops to a single lane through the loop, joins the mainline, and quickly merges prior to the bridge abutment. The westbound on-ramp from Front Street also features two lanes that drop to a single lane on-ramp gore and enters the mainline as an auxiliary lane to the northbound I-110 connector.

The signalized on and off-ramp terminus at Harbor Boulevard south of SR-47 is aligned with Swinford Street which provides access into the Port cruise terminals and waterfront area. The westbound on-ramp intersection at Front Street is uncontrolled. Class II bike lanes are provided along Harbor Boulevard and Front Street. On-street parking is available along southbound Harbor Boulevard beyond Beacon Street, approximately 400 feet south of the eastbound/westbound off-ramp.

Harbor Boulevard becomes Front Street north of the SR-47 and is a four-lane arterial throughout. North of the on-ramp at Front Street, rail tracks cross Front Street and curve to the south to parallel Harbor Boulevard along its northbound back of walk. This portion of the former Pacific Harbor Rail Line is inactive. Its alignment crosses Front Street again further to the north and west after rounding Knoll Hill. South of the Vincent Thomas Bridge, POLA operates the Waterfront Red Car on a segment of this line.

The next cross-street to the north along Front Street is Knoll Drive, which provides one-way access down from Knoll Hill and aligns with the West Basin Container Terminal gate, a two-way road, at a signalized intersection. After curving west around Knoll Hill, Front Street terminates at Pacific Avenue.

Several Port-owned properties lie to the west of Front Street, between Knoll Hill and the former Pacific Harbor Rail Line alignment. Adjacent to Front Street is a Port Truck Inspection Facility and behind this facility are a Police K-9 dog training facility and Knoll Hill Dog Park, a temporary public use off-leash dog park. To the south, between the rail line and westbound on-ramp from Front Street, is sewer pump station #69, owned and operated by the City of Los Angeles.

3D, Other Projects

The John S. Gibson Boulevard/I-110 Freeway Access Ramp Improvements project was recently constructed, with project limits extending from the westbound I-110 connector north to the John S. Gibson Blvd northbound on-ramp. This project improved operation on SR-47 by modifying the northbound I-110 connector from a one-lane to a two-lane connector.

The Front Street Beautification project includes a landscaped community walkway along the northbound side of Front Street between Pacific Avenue and the Vincent Thomas Bridge. Construction is expected to begin in 2019.

4. PURPOSE AND NEED

Purpose:

The purpose of the proposed project is to modify the existing on- and off-ramps to improve safety, access, and the operation of the SR-47 and Front Street/Harbor Blvd Interchange; and to improve goods movement and traffic circulation in the area in a manner that is sensitive to the needs of the local community.

Need:

Currently, westbound SR-47 off-ramp traffic and southbound I-110 off-ramp traffic exit to a shared terminus at Harbor Boulevard. This condition creates operational issues caused by vehicle slowing and weaving on the ramp as vehicles approach the terminus at Harbor Boulevard. Traffic routinely backs up on both off-ramps during peak periods and this condition is expected to worsen with projected growth. The operational efficiency of the eastbound on-ramp is reduced by the presence of short acceleration lane.

4A. Problem, Deficiencies, Justification

The primary deficiency within the existing interchange configuration is the atypical alignment of the westbound SR-47 off-ramp that loops beneath the SR-47 mainline to join the eastbound SR-47 off-ramp at a shared exit terminus. This configuration creates safety and operational issues caused by vehicle slowing and weaving where the two ramps merge as vehicles approach the terminus. Weaving vehicles often block lanes of traffic, creating queues that extend onto the ramps before the merge. Queuing on the eastbound exit can extend into the freeway lanes.

The eastbound loop on-ramp from Harbor Boulevard has short acceleration and merging lengths, approximately one-third of standard lengths, due to the close proximity of the Vincent Thomas Bridge (VTB). Slow moving traffic approaching from the loop must accelerate on an ascending grade to merge with faster moving mainline traffic.

The westbound SR-47 on-ramp terminus intersection at Front Street is currently uncontrolled. A single left-turn pocket creates long queues on northbound Front Street as vehicles wait for gaps in southbound traffic to move onto the on-ramp, presenting safety and operational concerns.

In order to resolve these deficiencies, the SR-47 Interchange at Harbor Boulevard/Front Street is proposed to be modified to create discrete east and westbound ramp termini with fully controlled terminal intersections. Additionally, improved acceleration and merging conditions are proposed for the eastbound on-ramp.

Regional and System Planning 4B.

Systems |

SR-47 and Harbor Boulevard/Front Street are included in the following federal and state systems:

- National Highway System (NHS): The NHS is a set of highways which span across the country and serve critical functions in the operation of the nation. SR-47 is a subset of the National Highway System, categorized under "Other NHS Routes". Front Street, north of SR-47, is categorized as an "Intermodal Connector" in the National Highway System. South of SR-47, Harbor Boulevard is categorized as a "Map-21 NHS Principal Arterial".
- Freeway and Expressway System: SR-47 is part of the State Highway System, according to Section 347 in Article 3 of the Streets and Highway Code.
- Federal Surface Transportation Assistance Act (STAA): The purpose of the STAA is to identify and address issues with highways and bridges included in the Interstate System, such as truck access and operations on highways. SR-47 is a Terminal Access route. A Terminal Access route allows STAA truck access between National Network Routes or a freight terminal facility.

State Planning

The 2015 Transportation Concept Report (TCR) for SR-47 identifies the segment containing the project as Segment 1A (Vincent Thomas Bridge). This segment has a functional classification of expressway and is a Terminal Access Route. Referencing the SCAG's 2012-2035 Regional Transportation Plan/Sustainable Community Strategy (RTP/SCS), the TCR recommends maintaining the existing facility of two mixed flow lanes in either direction through this segment.

Regional Planning

The proposed project is identified in the 2016 Regional Transportation Plan's Project List under Strategic Projects, RTP ID# S1160271, with the following description:

"SR47/V. Thomas Bridge/Front St Interchange: new westbound SR47 on- and off-ramps at Front St just west of Vincent Thomas Bridge and eliminate the existing non-standard ramp connection to the Harbor Blvd off-ramp."

The project is also identified in the 2016 FTIP, Amendment #2, under RTP ID# 1120007, with the following description:

"SR47-V.ThomasBridge/Front St Interchange: new westbound SR 47 on- and off-ramps at Front Street just west of the Vincent Thomas Bridge and eliminate the existing non-standard ramp connection to the Harbor Boulevard off-ramp; Front Street is an NHS conn."

Local Planning

The project improvements conform to the Port of Los Angeles Waterfront Master Plan which prescribes Front Street, Harbor Boulevard, and Regan Street to be part of the "Heavy Container Corridor." The project is also compatible with the San Pedro Waterfront and Promenade Master Plan. Lastly, the project is compatible with the City of Los Angeles Master Plan which denotes Front Street as an "Avenue 1" and "Scenic Hwy."

The 2010 LA City Bike Plan designates Harbor Boulevard, Front Street, and SR-47 across the Vincent Thomas Bridge as accommodating bike lanes as part of the "Backbone Bikeway Network". The portions on Harbor Boulevard and Front Street are listed as 'existing' and the segment across the Vincent Thomas Bridge is listed as 'future'.

Transit Operator Planning

Bus Routes 910 & 950X exit on the eastbound off-ramp and travel south down Beacon Street to the bus stop at Beacon Street Park & Ride. The route later returns north on Harbor Boulevard and enters SR-47 via the westbound on-ramp. This line may remain open during construction.

4C. Traffic

Current and Forecasted Traffic

An Updated Traffic Study was approved on March 18, 2018. This study relies upon a Port maintained, localized version of the 2016 SCAG Traffic Model to analyze traffic growth in the project area. Separate model runs for 2023 and 2045 provided forecasted traffic volumes that were then post-processed and analyzed using HCM2010. Existing, opening year, and design year peak hour volumes are shown in Tables 4-1, 4-2, and 4-3 below. Summary analysis is discussed throughout the Viable Alternative section below and more detailed analysis is available in the Traffic Report.

Table 4-1: Existing (2015) Freeway/Ramp Volumes

Freeway/Ramp Segments	AM Pea	k Hour	PM Peak Hour	
	Vehicles	Truck%	Vehicles	Truck%
I-110 Southbound to SR 47 Eastbound	1,566	10%	1,632	9%
I-110 Northbound (Gaffey) to SR 47 Eastbound	671	10%	700	9%
SR 47 Eastbound West of Harbor Blvd	2,237	10%	2,332	9%
SR 47 Eastbound Off-Ramp to Harbor Blvd	785	6%	703	7%
SR 47 Eastbound between Harbor Blvd Ramps	1,452	11%	1,629	9%
SR 47 Eastbound On-Ramp from Harbor Blvd	510	2%	481	8%
SR 47 Eastbound East of Harbor Blvd	1,962	9%	2,110	9%
SR 47 Westbound East of Harbor Blvd	2,908	9%	2,985	9%
SR 47 Westbound Off-Ramp to Harbor Blvd	371	6%	328	7%
SR 47 Westbound between Harbor Blvd Ramps	2,537	9%	2,657	9%
SR 47 Westbound On-Ramp from Harbor Blvd	579	0%	441	2%
SR 47 Westbound West of Harbor Blvd	3,116	8%	3,098	8%
SR 47 Westbound to I-110 Southbound (Gaffey)	1,259	2%	781	2%
SR 47 Westbound to I-110 Northbound	1,857	12%	2,317	10%

Table 4-2: Opening Year (2023) Build Freeway/Ramp Volumes

Freeway/Ramp Segments	AM Pea	k Hour	PM Peak Hour	
	Vehicles	Truck%	Vehicles	Truck%
I-110 Southbound to SR 47 Eastbound	1,766	18%	1,943	10%
I-110 Northbound (Gaffey) to SR 47 Easthound	757	18%	832	10%
SR 47 Eastbound West of Harbor Blvd	2,523	18%	2,775	10%
SR 47 Eastbound Off-Ramp to Harbor Blvd	829	11%	901	5%
SR 47 Eastbound between Harbor Blvd Ramps	1,694	22%	1,874	13%
SR 47 Eastbound On-Ramp from Harbor Blvd	561	11%	620	7%
SR 47 Eastbound East of Harbor Blvd	2,255	19%	2,494	11%
SR 47 Westbound East of Harbor Blvd	3,335	23%	3,776	7%
SR 47 Westbound Off-Ramp to Harbor Blvd	612	23%	789	10%
SR 47 Westbound between Harbor Blvd Ramps	2,723	23%	2,987	6%
SR 47 Westbound On-Ramp from Harbor Blvd	686	13%	711	10%
SR 47 Westbound West of Harbor Blvd	3,409	21%	3,698	7%
SR 47 Westbound to I-110 Southbound (Gaffey)	1,218	5%	942	1%
SR 47 Westbound to I-110 Northbound	2,191	30%	2,756	9%

Table 4-3: Design Year (2045) Build & No-Build Freeway/Ramp Volumes

Freeway/Ramp Segments	AM Pea	k Hour	PM Peak Hour	
	Vehicles	Truck%	Vehicles	Truck%
I-110 Southbound to SR 47 Eastbound	2,612	57%	1,973	18%
I-110 Northbound (Gaffey) to SR 47 Eastbound	956	1%	879	1%
SR 47 Eastbound West of Harbor Blvd	3,568	42%	2,852	13%
SR 47 Eastbound Off-Ramp to Harbor Blvd	1,141	42%	988	7%
SR 47 Eastbound between Harbor Blvd Ramps	2,427	42%	1,864	16%
SR 47 Eastbound On-Ramp from Harbor Blvd	1,080	4%	832	3%
SR 47 Eastbound East of Harbor Blvd	3,507	31%	2,696	12%
SR 47 Westbound East of Harbor Blvd	4,491	32%	4,728	8%
SR 47 Westbound Off-Ramp to Harbor Blvd	891	28%	1,267	6%
SR 47 Westbound between Harbor Blvd Ramps	3,600	33%	3,461	8%
SR 47 Westbound On-Ramp from Harbor Blvd	1,601	27%	1,152	7%
SR 47 Westbound West of Harbor Blvd	5,201	31%	4,613	8%
SR 47 Westbound to I-110 Southbound (Gaffey)	1,462	4%	1,459	1%
SR 47 Westbound to I-110 Northbound	1,857	12%	2,317	10%

Collision Analysis

Collision data was gathered as part of the Traffic Report from Caltrans and the City of Los Angeles for the periods of 1/1/2015 to 12/31/2017 and 1/1/2013 to 12/31/2015, respectively. The total collision rates along the mainline locations are higher than the statewide average for similar facilities at four out of six study segments. The collision rates on the ramps were below the statewide average. Analysis of collision data on the mainline shows rear-ending, sideswipes, and hit-object are the most common types of collisions; these types of collisions are often related to traffic congestion. Collisions on the ramps and at intersections are of varied type and generally low occurrence, such that no primary factors or causes are apparent. Following the proposed project improvements, merging-type collisions may be reduced where the merging area is lengthened at the eastbound onramp and where merging movements are eliminated with the expansion of the eastbound off-ramp to a two-lane exit. Further detail on the collision rates and types are available in the tables below as well as in appendices to the Traffic Report.

Table 4-4: Collision Rates

	Collision Rate ¹								
Location		Actual		Statewide Average					
80 mm (100)	F	F+I	Total	F	F+I	Total	MVM		
SR 47 Mainline Northbound/Eastbound (PM R000.000–R000.348)	0.000	0.06	0.50	0.01	0.33	0.87	15.96		
SR 47 Mainline Northbound/Eastbound (PM R000.349–000.787)	0.000	0.95	3.07	0.005	0.24	0.71	4,23		
SR 47 Mainline Northbound/Eastbound (PM 000,788-000.857)	0.000	0.50	3.48	0.005	0.26	0.76	2.01		
SR 47 Mainline Southbound/Westbound (PM 000.819–000.857)	0.000	0.00	1.79	0,005	0.26	0.76	1.12		
SR 47 Mainline Southbound/Westbound (PM R000.377–000.818)	0.000	0.46	1.62	0.005	0.26	0.76	4.31		
SR 47 Mainline Southbound/Westbound (PM R000.000–R000.376)	0.060	0.12	0.18	0.007	0.32	0.87	16.75		
SR 47 Northbound/Eastbound Off-Ramp to Harbor Boulevard	0.000	0.11	0.32	0.003	0.12	0.37	9.5		
SR 47 Northbound/Eastbound On-Ramp from Harbor Boulevard	0.000	0.35	0.53	0.001	0.23	0.67	5.67		
SR 47 Southbound/Westbound Off-Ramp to Harbor Boulevard	0.000	0.00	0.23	0.003	0.15	0.45	8.78		
SR 47 Southbound/Westbound On-Ramp from Harbor Boulevard	0.000	0.00	0.51	0.002	0.21	0.60	5.88		

F = Fatal; I = Injury; F+I = Fatal + Injury
Source: Caltrans TASAS, Table B Collision Data Reviewed: 01/01/2015 to 12/31/2017

Notes:

The remaining sections, the collision rate is the number of collisions per million vehicle-miles. For ramps, the collision rate is the number of collisions per million vehicles.

Table 4-5: Collision Types

Location	Head- On	Sideswipe	Rear-End	Broadside	Hit Object	Overturn	Other	Total
Coddillon		· · · · · · · · · · · · · · · · · · ·	Freeway Dat					
SR 47 NB/EB Mainline (PM R000.000-R000.348)		50%	13%		25%		13%	8
SR 47 NB/EB Mainline (PM R000.349–000.787)		46%	38%	8%	8%			13
SR 47 NB/EB Mainline (PM 000.788–000.857)	14%	29%	29%		28%			7
SR 47 SB/WB Mainline (PM 000.819-000.857)		50%			50%			2
SR 47 SB/WB Mainline (PM R000.377-000.818)		43%	43%		14%			7
SR 47 SB/WB Mainline (PM R000.000–R000.376)	33%	34%			33%			3
SR 47 NB/EB Off-Ramp		33%			67%			3
SR 47 NB/EB On-Ramp		33%			67%			3
SR 47 SB/WB Off-Ramp		50%		50%				2
SR 47 SB/WB On-Ramp			67%			33%		3
		In	tersection D	ata				
Pacific Ave & Front St		11%	11%		56%	22%		9
Harbor Blvd & Swinford St		18%	27%	9%	37%		9%	11
Front St & Knoll Dr		20%	40%		40%			5

Freeway Data Source: Caltrans TASAS; Collision Data Reviewed: 01/01/2015 to 12/31/2017
Intersection Data Source: LADOT Collision Report Summary; Collision Data Reviewed: 01/01/2013 to 12/31/2015

5. ALTERNATIVES

The project proposes to reconfigure the existing interchange at State Route 47 and Harbor Boulevard/Front Street. The proposed improvements in the Build Alternative will eliminate a historically problematic weave at the shared off-ramp terminus by creating a new, separate terminus for the westbound ramps. Proposed improvements also include modification of the eastbound ramps and modification of Harbor Boulevard and Front Street between Knoll Drive and Beacon Street.

5A. Viable Alternatives

No-Build Alternative

The No Build Alternative maintains the current configuration (See Figure 5 below). As traffic volumes increase, traffic operation will deteriorate. Existing geometric deficiencies, discussed above, will remain. This alternative does not meet the project's purpose and was not chosen as the preferred alternative.

Versiand Place

Versiand Place

West Arnat Street

Figure 5 - Existing Layout

No-Build Traffic Analysis

In the Design Year (2045) No-Build conditions, Harbor Boulevard & SR 47 Ramps/Swinford Street intersection is projected to operate at LOS F with significant delays. The queuing analysis for the year 2023 and year 2045 No-Build conditions indicated that during peak hours, the expected 95th percentile queues at the SR 47 EB/WB Off-Ramp to Front Street/Harbor Boulevard would extend beyond the point where the eastbound and westbound off-ramps merge at the intersection, and would likely reach the eastbound mainline presenting potential for rear-end collisions.

Table 5-1: No-Build Intersection Levels of Service

SR-47 Traffic Data	SR-47 Traffic Data AM P		PMI	Peak
Base Year (2015)	Delay	LOS	Delay	LOS
Front St & Knoll Dr/WBCT Gate 2	3.4	A	11.5	В
Harbor Blvd/Front St & SR 47 Ramps/Swinford St	31.3	С	28.7	С
Opening Year (2023) - No-Build	Delay	LOS	Delay	LOS
Front St & Knoll Dr/WBCT Gate 2	8.2	Α	9.1	Α
Harbor Blvd/Front St & SR 47 Ramps/Swinford St	39.0	D	37.2	D
Design Year (2045) - No-Build	Delay	LOS	Delay	LOS
Front St & Knoll Dr/WBCT Gate 2	11.5	В	7.8	Α
Harbor Blvd/Front St & SR 47 Ramps/Swinford St	239.3	F	103.6	F

Note: Delay is in seconds

Build Alternative

Following public circulation, the Build Alternative was identified by the PDT as the preferred project alternative. Local agencies were largely supportive of the build alternative. Public response to the project was muted and generally neutral. Owners and residents of properties affected by the

proposed noise walls constituted the primary commenters and did not express support for the potential walls. These walls have been removed from the proposed project and are further discussed in the Noise Barrier and Noise Abatement Decision Report sections below.

This alternative would reconfigure the existing interchange at State Route 47 and Harbor Boulevard/Front Street. The build alternative was identified in the Project Study Report as Alternative 3. See Attachment B for a layout featuring the proposed project improvements.

Proposed Engineering Features

The proposed improvements will eliminate a problematic weave at the shared off-ramp terminus by creating new, separate termini for the eastbound and westbound ramps. Specific improvements are described below:

- The westbound off-ramp is directed north of SR-47, across the former Pacific Harbor Line rail right-of-way toward a new ramp terminus on Front Street at the existing West Basin Container Gate signalized intersection.
- The westbound on-ramp shifts its terminus approximately 650 feet north along Front Street to the new ramp terminus at the existing West Basin Container Gate signalized intersection (previously signed as Knoll Drive). The ramp crosses the former Pacific Harbor Line rail right-of-way and joins the SR-47 mainline at the existing gore location. The on-ramp introduces an auxiliary lane that continues onto the Northbound I-110 connector.
- The eastbound off-ramp begins reconstruction 200 feet west of its current mainline gore. The existing one-lane ramp is widened to a two-lane exit ramp and the cross-section is expanded from three to four lanes at the terminus intersection.
- The eastbound on-ramp utilizes space previously occupied by the westbound off-ramp to shift its mainline gore west 200 feet to increase acceleration distance for merging traffic.
- The east end of Knoll Drive is realigned to meet Front Street approximately 250 feet north of its current intersection. The one-way direction of Knoll Drive is changed to westbound.

In addition to this ramp reconstruction, Harbor Boulevard/Front Street's cross-section is widened to accommodate additional turning movements at both ramp terminus intersections. Six-foot-wide sidewalks and five-foot wide bike lanes along Harbor Boulevard and Front Street are provided, as are ADA compliant curb ramps and crosswalks at each of the intersections, following Complete Street guidelines.

The proposed ramp alignments require cut retaining walls, up to 20 feet high, where Knoll Drive and the westbound on-ramp have shifted into Knoll Hill. Cut walls are also required along the widened

eastbound off-ramp. A fill wall is proposed along the inside of the westbound off-ramp loop to maximize useable space for the existing land uses to be relocated. Standard wall types are feasible and have been estimated. Final wall types and footings will be determined during Design Stage.

No modifications to Vincent Thomas Bridge are proposed. The Harbor Boulevard Ramp Undercrossing (53-807) is proposed to remain. The existing cut retaining wall along the eastbound off-ramp between station 18+00 and 21+00 is proposed to remain.

Ramp and mainline roadway drainage will be collected in a combination of new and existing drainage systems to tie into existing storm drain systems along Harbor Boulevard / Front Street, as they do today.

South of SR-47, access control to the Caltrans facility is maintained in the manner that exists today. North of the SR-47, access control is proposed along the westbound on and off-ramps to the ramp intersection at Front Street. See Attachment B – Project Layout.

Build Traffic Analysis

The proposed reconfiguration of the interchange in the Build conditions would improve traffic operations at both the eastbound and westbound SR-47 ramp intersections. Although the SR-47 EB Ramps/Harbor Boulevard intersection is projected to operate at LOS E during the design year in the Build conditions, there would be significant reduction in delay when compared to the No-Build conditions. Under Build conditions, with the proposed reconfiguration of the interchange, there would be sufficient storage available on the eastbound and westbound off-ramps for the projected 95th percentile queues.

Table 5.2 below summarizes HCM2010 analysis of delay at intersections in the project area. Analysis of the existing and no-build westbound on-ramp intersection is not available for direct comparison because it is uncontrolled. Please see the Traffic Report for further information.

Table 5-2: Intersection Levels of Service

SR-47 Traffic Data	AM	Peak	PM	Peak
Base Year (2015)	Delay	LOS	Delay	LOS
Front St & Knoll Dr/Container Terminal Gate 2	3.4	A	11.5	В
Harbor Blvd/Front St & SR 47 Ramps/Swinford St	31.3	С	28.7	С
Opening Year (2023) - No-build	Delay	LOS	Delay	LOS
Front St & Knoll Dr/Container Terminal Gate 2	8.2	Α	9.1	Α
Harbor Blvd/Front St & SR 47 Ramps/Swinford St	39.0	D	37.2	D
Opening Year (2023) — Build	Delay	LOS	Delay	LOS
Front St & SR 47 WB Ramps/Container Terminal G2	27.3	С	28.7	С
Harbor Blvd/Front St & SR 47 Ramps/Swinford St	33.1	С	35.0	D
Design Year (2045) - No-Build	Delay	LOS	Delay	LOS
Front St & Knoll Dr/Container Terminal Gate 2	11.5	В	7.8	Α
Harbor Blvd/Front St & SR 47 Ramps/Swinford St	239.3	F	103.6	F
Design Year (2045) – Build	Delay	LOS	Delay	LOS
Front St & SR 47 WB Ramps/Container Terminal G2	65.4	E	44.6	D
Harbor Blvd/Front St & SR 47 Ramps/Swinford St	65.9	E	53.4	D

Note: Delay is in seconds

Non-Standard Mandatory and Advisory Design Features

The build alternative includes non-standard features.

A Design Standards Decision Document was approved on May 29, 2019. A total of 28 non-standard features are included in the build alternative: 17 bold exceptions and 11 underlined exceptions. The exceptions, by type and number, are listed below in Table 5-3. Features related to the mainline generally perpetuate or improve upon existing conditions. Sensitive right-of-way uses, namely a residential neighborhood to the south, Knoll Hill Park to the north, and commercial and industrial port facilities to the east, constrain proposed ramp alignments. Although some features are non-standard, the proposed alignments improve existing conditions. Vincent Thomas Bridge, a 1.2 mile long steel suspension bridge to the east, and the I-110 Interchange, a freeway to freeway interchange to the west, also limit practical improvements for this project. Preliminary Layouts, Profiles, and Typical Cross-sections are provided in Attachment C.

Table 5-3: Non-Standard Features

IDM Index	Topic	Number of Exceptions
	Bold Standards	manus I
203.1	Stopping Sight Distance	1
203.2	Horizontal Alignment	4
302.1	Inside Shoulder	1
305.1(3a)	Medlan Width	1
501.3	Interchange Spacing	1
504.2(2)	Ramp Deceleration	2
504.3(3)	Intersection Spacing	3
504.7	Mainline Weaving Length	2
504.8	Access Control	2
	Underlined Standards	
201.7	Decision Sight Distance	1
202.5(1)	Superelevation Transitions	6
304.1	Side Slope Standards	1
504.2(2)	Ramp Gore Geometry	1
504.2(5)(b)	Ramp Auxiliary Lane	1
504.2(6)	Provision for Future Ramp Widening	1

HOV Facilities

High Occupancy Vehicle facilities are not proposed for the SR-47 or the SR-47 on-ramps.

Ramp Metering

The existing entrance ramps include ramp metering systems, although they are currently not in use by request from the Port of Los Angeles. The proposed on-ramps are designed to accommodate

ramp metering, and ramp metering equipment is included in the capital cost estimate. Ramp metering systems proposed will follow guidelines in Caltrans' Ramp Metering Design Manual.

CHP Enforcement

Enforcement areas and maintenance pullouts are not currently shown on project layouts. These areas will be identified during final design and placed as appropriate, following guidance in the Caltrans' Ramp Metering Design Manual and Standard Plans.

Park and Ride

Harbor-Beacon Park and Ride is located directly to the south of the project, along the west side of Beacon Avenue on Port of Los Angeles property. The entrance to the Park and Ride is approximately 600 feet south of the Harbor Boulevard/Swinford Street intersection. This facility accommodates Bus Routes 910 & 950X.

Utility and Other Owner Involvement

A records search was completed for above and below ground utilities in the project area, and a utility conflict assessment was conducted. Most utilities lie beneath or along Harbor Blvd/Front Street, or run parallel beneath the adjacent terminal properties to the east. The utilities include:

- Los Angeles Department of Water and Power Water Lines and Fire Hydrants;
- Los Angeles Department of Water and Power above and below ground transmission lines;
- · Southern California Gas Lines;
- · Port of LA and/or City of LA Storm Drains;
- United States Navy Oil Pipelines;
- Standard Oil Pipelines;
- City of Los Angeles Bureau of Engineering Sanitary Sewer Lines;
- Los Angeles Department of Transportation Communication Lines.

In general, many underground utilities within Harbor Boulevard/Front Street will be protected in place. Underground utilities along existing Knoll Drive will require relocation due to changes in grade and retaining wall construction. Above ground utilities along the west side of Front Street and along the rail right-of-way are in conflict and will require relocation.

There are no existing or proposed parallel encroachments of utility easements. However, near and parallel to the former Pacific Harbor Line rail right-of-way are overhead power poles, an oil pipe, and a stormwater line that will all cross beneath the proposed westbound on and off-ramps. The power line is proposed to be undergrounded along a similar alignment, the stormwater line will continue to

support local drainage, and the oil line is proposed to be protected in place. An existing utility map is included in Attachment D.

Railroad Involvement

There is no railroad involvement. The Port of Los Angeles and the Port of Long Beach jointly own the rail right of way of the former Pacific Harbor Line running through the study area. The existing tracks are inactive and severed on both ends. The joint owners have determined that no potential future use is intended for this corridor and therefore the right-of-way may be acquired for freeway and Port of Los Angeles uses, as necessary (See Right-of-Way Map and Data Sheet included in Attachments E and F)

A Historical Resources Evaluation Report (HRER) has been completed. Analysis finds that this portion of the Pacific Harbor Line does not possess historical significance. The HRER has been completed, reviewed, and submitted to the State Historic Preservation Officers (SHPO) where findings were confirmed.

Highway Planting

Existing landscaping in the project area consists mainly of inconsistent ground cover, medium and large sized bushes, palm trees, and in the area of the dog park, a number of young trees. The slopes of Knoll Hill are covered in native grasses and scrub. As construction will disturb much of this vegetation, new and disturbed slopes will be landscaped and irrigated to match existing conditions and to the extent necessary to insure adequate erosion control.

Erosion Control

Existing erosion control includes landscaping, natural vegetation, hard surfaces, and slope protection. Existing cut and fill slopes will be disturbed throughout the project limits and new slopes will be created. Proposed slopes of 4:1 will be provided as feasible. No slopes steeper than 2:1 are proposed. Slopes of 2:1 and between 2:1 to 4:1 will be coordinated with the Landscaping unit. Preliminary grading limits are indicated on the project layout included in Attachment B. Retaining wall locations, limits, and heights have been identified and estimated where the desirable gradient cannot be achieved or where available right of way is constrained. Final grading plans will be prepared during final design.

New slopes will include erosion control measures, primarily landscaping, mulch, and hard surfaces. Plant establishment periods will be included in the project construction to permanently establish the new landscaping. Specific locations and the appropriate type of vegetation will be based on local soil conditions, topography, climate and native vegetation and will be selected with the approval of the District Landscape Architect during the final design.

Erosion control is part of Design Pollution Prevention (DPP) best management practices (BMPs), which is discussed further in the Storm Water Data Report. BMP goals are to minimize the impervious surface, to prevent downstream erosion, to stabilize disturbed surface areas (DSA), and to maximize

vegetated surfaces. Together these goals will reduce the volume of runoff, avoid downstream erosion, promote infiltration, and remove pollutants. The project will be designed to not pose any additional sediment discharge risk than it did prior to the beginning of project construction. The following measures will be utilized to avoid or reduce potential erosion control:

- Erosion from slopes will be minimized by disturbing existing slopes only when necessary, minimizing cut and fill areas to reduce slope length, incorporating retaining walls to reduce steepness of slopes or to shorten slopes, avoiding soil formations that would be difficult to re-stabilize, providing cut and fill slopes flat enough to allow re-vegetation and limit erosion to pre-construction rates, rounding and shaping slopes to reduce concentrated flow, and collecting concentrated flows in stabilized drains and channels.
- The project conceptual design allows for the ease of BMP maintenance. Concurrence with the Maintenance Unit will occur during final design.
- Construction activities involving extensive soil disturbance will be scheduled outside of the wetter months as much as practical.

During the PS&E stage and prior to construction, a Storm Water Pollution Prevention Plan (SWPPP) will be prepared for this project. It will identify construction site BMPs to reduce water quality impacts. Bioswales and a detention basin are currently proposed as part of the project BMPs. Any design issues during final design should be discussed with Caltrans Maintenance to allow for ease of BMP maintenance, and to prevent future maintenance and/or safety problems, as well as expensive last minute design corrections.

Noise Barriers

A Final Noise Study Report was prepared for the project to evaluate potential traffic noise impacts that may result from the Build Alternative. Preliminary noise abatement measures necessary to comply with state and federal noise abatement regulations are also analyzed and presented in this report.

Noise sensitive areas exist north of the project, at Knoll Hill Park and at the existing residence on Knoll Hill. To the south, a large residential complex is situated within the eastbound loop on-ramp from Front Street and there is a residential neighborhood atop the bluffs abutting the southern limits of the project area.

In the Noise Study, noise walls were found to be feasible along the top of slope following the south boundary of the Caltrans right-of-way, from the end of the existing noise wall at Powell Street to the slope above Beacon Street. Additionally, a feasible noise wall was proposed surrounding the southern edge of the residence upon Knoll Hill; however, these walls were eliminated from the project due to feedback gathered from the residence surveys during public circulation. Further detail on Noise Study Report is located in Section 6H, Noise Abatement Decision Report.

Non-Motorized and Pedestrian Features

The City of Los Angeles Bicycle Plan and General Plan denote Front Street/Harbor Boulevard as a bike route with existing Class II bike lanes. The Plan also classifies the SR-47 across the Vincent Thomas Bridge as a Class III shared-lane bike lane. A Class I bike and pedestrian pathway is planned for the east side of Front Street north of Vincent Thomas Bridge as part of the Front Street Beautification Project (to begin construction in 2019).

The proposed Front Street and Harbor Boulevard cross-section includes Class II bike lanes in both directions across the project limits, including a bike refuge lane between the through and right-turn lane southbound at the eastbound terminal ramp intersection.

The existing SR-47 eastbound ramp terminus intersection features curb ramps at all corners and crosswalks on all but the south leg. Sidewalks extend along Harbor Boulevard north beneath the Vincent Thomas Bridge, but do not continue beyond the existing SR-47 westbound on-ramp intersection. This ramp intersection is uncontrolled and does not contain crosswalks or curb ramps. Continuing north along Front Street, there are no existing sidewalks and pedestrians must use the shoulder. Neither are there curb ramps, although there is a crosswalk on the south side of the Knoll Drive intersection. The Front Street Beautification Project proposes sidewalk and ADA curb ramps along the east and north side of Front Street, from the rail crossing to Pacific Avenue northwest of Knoll Hill.

This project proposes continuous sidewalk with ADA curb ramps along each side of Harbor Boulevard and Front Street from the southern project limits to the proposed westbound ramp intersection. To the north of the westbound ramp intersection, sidewalk will continue to be available only on the northbound side of Front Street. Improvements from the Front Street Beautification Project, including northbound sidewalk and Class I bike and pedestrian path, will remain.

Crosswalks are provided at all four legs of the westbound terminal intersection and all but the south leg of the eastbound terminal intersection. As in the existing conditions, the crosswalk at this location is omitted for pedestrian safety and enhanced signal operations due to the double right-turn movements on the SR-47 eastbound off-ramp.

Intersection controls, signage, markings, and lighting provide safe passage for all users on the local streets. During final design, sidewalk, curb ramp, and bikeway design details will comply with the Highway Design Manual, Americans with Disabilities Act (ADA), and local standards, as appropriate.

Needed Roadway Rehabilitation and Upgrading

Reconfiguration of the four interchange ramps will replace existing ramp and gore pavement on SR-47. The Front Street Beautification Project will be replacing the existing pavement along Harbor Boulevard and Front Street through most of the project limits. As such, where possible, the existing pavement is expected to remain and the cross-section widened with new pavement.

The mainline pavement of State Route 47 is joint concrete pavement with flexible asphalt shoulders. Condition of the pavement, according to the Pavement Condition Summary Report, consists of 0.44 lane miles of "Fair Condition" pavement and 0.22 lane miles of "Poor Condition" (2018). It is not within the scope of this interchange reconfiguration to replace the mainline pavement.

Needed Structure Rehabilitation and Upgrading

There are no new structures proposed as part of this project. According to the 2014 Bridge Inspection Report, The Harbor Boulevard Ramp Undercrossing (53-807) has no significant defects and will remain in place. Modifications to the alignment of the SR-47 eastbound on-ramp gore location may alter the grading of the sloped abutment in the southeast corner of the structure. This alteration is not expected to negatively impact the structure or columns.

Cost Estimates

The total capital outlay is estimated at \$31.3 million. A preliminary cost estimate is included in Attachment G. With anticipated support costs included, the total project cost is \$40.4 million. The project cost is summarized in the table below:

Description	Cost (millions) (2019)	Escalated Cost (millions) (2021)
Roadway Items	\$22.0	\$23.7
Structures	\$0.0	\$0.0
Total Construction	\$22.0	\$23.7
Right of Way (incl Utilities)	\$9.4	\$9.8
Total Capital Outlay	\$31.3	\$33.4
Support	\$9.0	\$9.5
Total Project Cost	\$40.4	\$43.0

Right of Way Data

The proposed interchange reconfiguration impacts properties to the north of the existing interchange. Forty-one properties owned by the Port of Los Angeles are impacted by the project or construction of the roadway improvements. A Right-of-Way Map and a Right-of-Way Data Sheet are included in Attachments E and F, respectively.

5B. Rejected Alternatives

The Project Study Report considered a second build alternative identified as Alternative 2. Alternative 2 considered ramp alignments and grade separations to avoid acquisition of the former Pacific Harbor Line right-of-way, as the Port was considering a potential future use. Due to the necessary rail grade separations, Alternative 2 had a higher cost and contained less desirable geometric features related to the westbound ramp profiles. Short vertical curves and steeper grades were required to achieve vertical clearance over the rail lines. The Port has since determined that it is not necessary to preserve the right of way for future use. Consequently, Alternative 2 is no longer under consideration.

6. CONSIDERATIONS REQUIRING DISCUSSION

6A. Hazardous Waste

An Initial Site Assessment (ISA) and an Addendum to ISA (Addendum) were completed to evaluate the potential presence of hazardous materials within the proposed project and to evaluate liability issues related to site cleanup and construction impacts prior to design and construction activities within the proposed project area. The key findings are summarized as follows:

Two "High Risk" parcels located in the project area: one at the West Basin Container Terminal property (Assessor Parcel Number (APN): 7440-025-904) where petroleum pipelines have been abandoned-in-place adjacent to Front Street, and a second parcel at the cruise port terminal property (APN: 7440-024-091) across from the eastbound ramp termini. Historically, soil and groundwater contamination were detected in these areas. The proposed work for the Project within the two parcels includes curb and sidewalk reconstruction, utility protection, and traffic signal construction to a maximum depth of approximately 10 feet below ground surface (bgs) which is likely below groundwater depth, historically reported in this area between 4 and 11 feet bgs. The ISA and the Addendum recommended soil and groundwater investigations at or near the two parcels prior to any soil excavation to assess the potential presence of hazardous contaminants and to determine disposal options if necessary for any contaminated soil and/or groundwater.

In the ISA, the railroad use parcels (APNs 7448-035-927 and 7448-035-932 which is the same Parcel as 7448-035-027) were identified as "medium risk" properties. The "medium risk" was assigned to the parcels due to the presence of the former Pacific Harbor Line railroad right-of-way. The ISA recommended a site investigation to evaluate potential presence of contaminants

commonly found in association with railroads, including total petroleum hydrocarbons, lead, asbestos, and arsenic. Remediation of contaminated soil, including groundwater, is included in the project costs.

A Preliminary Site Assessment/Phase II Environmental Site Investigation Report (SI report) was prepared for the railroad properties in September 2018. The scope of work described in the SI report included soil sampling at five borings to depths between 2.5 and 3.5 feet below ground surface (bgs), along an approximately 430-foot stretch of the railroad tracks near the future interchange. The analytical results of the collected soil samples reported the presence of lead, arsenic and chromium at concentrations above regulatory limits. Chrysotile asbestos was detected in two borings at a depth of one foot bgs. No deeper soil or groundwater samples were collected during this SI, therefore, a full extent of contaminant distribution in the subsurface of the railroad properties could not be evaluated at that time. The following conclusions and recommendations were provided in the SI report:

Potential human health risk associated with future use of the Site: Sample analytical results were compared to United States Environmental Protection Agency (US EPA) Regional Screening Levels (RSLs) and to background concentrations of arsenic in Southern California per the Department of Toxic Substances (DTSC) standard. A mix of residential and worker exposure RSLs were exceeded at all boring locations at various depths, as well as the composite ballast sample at the west end of the right-of way. As EPA's Soil Screening Guidance is used to address direct ingestion, inhalation of volatiles and fugitive dusts, and dermal absorption, among other pathways, concentrations above these soil screening levels pose potential risks to human health. RSLs are screening levels for potential risk, however, and are advisory. Concentrations above RSLs for arsenic or chromium were found in all borings and most sample depths. Chemical concentrations above these RSLs do not automatically designate a site as contaminated or trigger a response action; rather, they suggest that further evaluation of the potential risks caused by site contaminants is deemed appropriate. Furthermore, chrysotile asbestos was detected in certain samples. Construction workers and potential recreational users of the future development may be at risk from these contaminants, most commonly through ingestion of contaminated soil by direct hand to mouth activity or by inhaling airborne soil and dust particles that enter the mouth and nose, if not protected. The following minimum recommendations were included in the SI report that could apply to the planned redevelopment of the Site:

- Cover the impacted soil with clean fill soil that exceeds acceptable limits 1 foot or more in thickness (or cover with pavement) to be protective of future recreational users.
- Prior to construction activities that involve soil excavation or disturbance, develop a site-specific health and safety plan that specifically addresses the known concentrations of chromium and arsenic in the soil.

 Impacted soil that is excavated and placed within the Site should be covered with clean fill soil to a depth of 1 foot or more in thickness (or paved) to be protective for future Site uses that do not involve soil excavation.

Offsite disposal of Site soil: Soil analytical results were also compared to waste characterization criteria. The sample results collected at 1 ft bgs from borings B1, B2, and B4 (western and central portions of the Site) exhibited characteristics of non-RCRA California hazardous waste, but none of the sample results were characteristic of RCRA hazardous waste. If Site redevelopment plans include removal and offsite disposal, a portion or all of the upper two feet of soil from the western and central portions of the investigated area, the soil should be disposed at an appropriately licensed facility, with waste profiling and sampling in accordance with the facility's requirements.

Next steps: Based on discussions of these results with Caltrans, and in consideration of Caltrans policies regarding transfer of parcels to Caltrans, POLA acknowledges the need for supplemental site investigation and, if needed, removal action during the Plans, Specifications, and Estimates (PS&E) phase of the project. Soil and ballast will be sampled to delineate the extent of contamination in soil between the ground surface and the water table and to define the limits of excavation as necessary and appropriate to remove contaminated materials. Shallow groundwater will be sampled at a representative number of locations to evaluate the nature and extent of hazardous materials at or below the water table, if any.

A Supplemental Site Investigation (SSI) Work Plan outlining these sampling activities will be prepared by POLA during the PS&E phase and submitted to Caltrans prior to implementation of field activities. If necessary based on evaluation of the SSI results, a Remedial Action Work Plan will be developed and implemented by POLA to manage in place and/or remove contaminated material from the Site as appropriate.

Aerially Deposited Lead in soil along SR-47 and interchange ramps to certain depths can be expected and are evident in investigations previously conducted nearby on SR-47/I-110. The PDT and the ISA have recommended soil testing to determine the extent of aerially deposited lead (ADL) be conducted during Design and the Right-of-Way phase. The Port of Los Angeles has determined that regardless of testing results and for Project Report cost estimating purpose, all ADL soil shall be classified as California regulated hazardous waste (non-RCRA) and shall be excavated, contained, transported, and disposed of at a permitted Class I disposal facility in the State of California. As such, quantities and waste management cost estimate shall be adequately accounted for in the Project Cost and are supported by recent relevant investigation data on adjacent highway projects (for PAED purpose only).

The ISA recommended a pre-demolition survey for Asbestos Containing Materials (ACM) and Lead Based Paint (LBP) be conducted on any structures, and/or improvements that shall be demolished and/or altered. Thermoplastic paint and yellow painted traffic stripes/pavement markings identified

within the Project area, will require special removal, handling and disposal in conformance with Caltrans standard special provisions and specifications.

Regarding parcels planned to be dedicated to Caltrans; further soil, soil vapor, and groundwater testing will be conducted and completed prior to the right-of-way certification phase to identify the presence, nature, and extent of contaminants over the full extent of the property to be dedicated and determine required remediation which may include excavation and disposal of contaminated material. If contamination is identified, a remediation plan will be prepared, implemented, and completed prior to right-of-way certification. The remediation plan will be subject to Caltrans review and approval, and if applicable regulatory agency review and approval, prior to implementation. The Port of Los Angeles acknowledges that the remediation of these parcels must be completed and a site closure document issued by any overseeing regulatory agencies prior to the end of project construction. Following construction of the project, these parcels will be dedicated to Caltrans.

6B. Value Analysis

A value analysis (VA) has not been conducted since the total project cost is estimated under \$50 million, which is the current threshold requiring a VA study as determined by *Title 23 United States Code*, Section 106.

6C. Resource Conservation

During construction, measures will be taken to conserve energy and nonrenewable resources according to Caltrans' specifications. Existing pavement materials may be recycled and incorporated into engineered fill, for example. Where available, existing roadside infrastructure will be preserved and/or relocated.

6D. Right of Way Issues

Proposed improvements require the acquisition of Port of Los Angeles property located directly north of the interchange. Existing uses in this area consist of a sewer pump station, off-leash Dog Park, K-9 Training Facility, and Truck Inspection Facility. The sewer pump station is to remain and the police dog training facility is expected to be located off-site. The dog park is currently a temporary facility and will not be replaced and/or relocated with the construction of this project. The truck inspection facility is anticipated to be relocated within the property remaining inside the proposed westbound loop on-ramp.

The project will also affect a portion of the former Pacific Harbor Rail Line, owned by the Port of Los Angeles. This rail line is no longer in service and has been previously severed in a number of other locations along its alignment. The reconstruction of a section of Knoll Drive requires acquisition of Port properties containing vacant land and slopes on Knoll Hill. The baseball field and fencing atop Knoll Hill will remain unaffected.

6E. Environmental Compliance

Caltrans has prepared an Initial Study (IS)/ Environmental Assessment (EA) for this project and, following public review, has determined from this study that the proposed project would not have a significant impact on the environment. The Negative Declaration (ND)/ Finding of No Significant Impact (FONSI) has been prepared in accordance with Caltrans' environmental procedures, as well as State and Federal environmental regulations. The attached ND/FONSI is the appropriate document for the proposal (See Attachment H).

Wetlands and Floodplains

National Flood Insurance Program (NFIP) Flood Insurance Rate Maps (FIRM) (panels 1945, 2031, and 2032) were used to determine the status of the project study area with respect to the flood plain. The study area was found to be outside the floodplain boundaries, however a portion of Front Street and the truck inspection center between Knoll Drive and the westbound on-ramp was found to be in Other Flood Areas: Zone X. Zone X is described as "areas of 0.2% annual chance of flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood".

Other Environmental Issues

While right of way is the main issue influencing project design or cost, potential hazardous waste may influence project design and cost, and are described further in the Hazardous Waste section within this document. Anticipated environmental permits are listed under the Permits section.

6F. Air Quality Conformity

The proposed project is listed in the financially constrained list of projects in the 2016 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) under RTP ID 7120018. The 2016 RTP was approved by the Regional Council of the Southern California Association of Governments (SCAG) on April 7, 2016, with ongoing amendments as needed with Amendment No. 2 adopted on July 6, 2017. The proposed project is listed in the 2017 Federal Transportation Improvement Program (FTIP) Consistency Amendment to 2016 RTP Amendment #2 under RTP ID #1120007. The 2017 FTIP Consistency Amendment to 2016 RTP Amendment #2 was approved by SCAG on July 7, 2017 and by FTA/FHWA on August 1, 2017. Each project alternative is fully compatible with the design concept and scope described in the current regional transportation plan.

An Air Quality Report was prepared for the project and determined that neither the short-term construction impacts nor the long-term operation impacts would exceed thresholds that either create or worsen an ambient air quality standard or contribute to an existing air quality violation.

6G. Title VI Considerations

Sidewalk and curb ramps along Front Street and Harbor Boulevard will be designed in accordance with the latest Americans with Disabilities Act (ADA) standards. This project adheres to Caltrans Title VI Policy Statement

6H. Noise Abatement Decision Report

A Final Noise Study Report (NSR) and Noise Abatement Decision Report (NADR) have been completed for the project. The NSR for this project was prepared by Daniel Kaufman on April 10, 2018 and approved by Jin S. Lee on April 20, 2018 and its findings are incorporated into the NADR. The NADR was prepared by Jason Lui on December 26, 2018 and concurred by Hamid R. Toossi on January 9, 2019. The NADR is an evaluation of the reasonableness and feasibility of incorporating noise abatement measures into this project.

The Noise Study Report identified six feasible noise barrier locations due to predicted noise levels approaching or exceeding the Noise Abatement Criteria (NAC). Based on analysis of reasonableness, the preliminary noise abatement decision recommended a 10-foot wall around the residence on Knoll Hill and a 12 to 16 foot wall along the south edge of Caltrans right-of-way. As part of the public review period for the environmental document, noise barrier survey letters were sent to the property owners and non-own occupants of the benefited receptors for each of these walls. Survey results showed a lack of support for these and consequently they are not recommended for construction.

7. OTHER CONSIDERATIONS AS APPROPRIATE

Public Hearing Process

The Environmental Document was circulated for agency and public comment from October 1 to October 30, 2018. A public hearing was held on October 17 at the Harbor Department Administration Building. Public participation was low; two public comments were recorded. Written comments were provided by the Environmental Protection Agency and the California Coastal Commission. All local agencies appear supportive of the project improvements featured in the Build Alternative.

Route Matters

A superseding freeway agreement is in progress as the traffic circulation at the SR 47/Front Street Interchange will be modified.

Permits

The following permits are anticipated during the preliminary engineering, project design, and construction phases:

- National Pollutant Discharge Elimination System (NPDES) Permits
- Caltrans Encroachment Permit

- Public Utility Commission (PUC) Permit
- Coastal Development Permit from California Coastal Commission (CCC)
- City of Los Angeles Bureau of Engineering B Permit
- City of Los Angeles Fire (hydrant relocation)
- City of Los Angeles Building and Safety (water line relocation, electrical, grading)

Cooperative Agreements

POLA and Caltrans executed a cooperative agreement on January 20, 2016 (Caltrans District Agreement No. 07-5049) to complete a Project Study Report. On July 12, 2017 POLA and Caltrans executed a cooperative agreement to complete a Project Report (Caltrans District Agreement No. 07-5120). POLA and Caltrans are currently developing a cooperative agreement to address design, right of way, and construction.

Other Agreements

The roles and responsibilities for the maintenance and operation of the Front Street and Harbor Boulevard on- and off-ramps will be addressed in separate maintenance agreements.

Transportation Management Plan

A Transportation Management Plan (TMP) will be developed for the project prior to construction. To address short-term traffic impacts during construction, the objectives of the TMP are to:

- Maintain traffic safety during construction;
- Maintain an acceptable level of traffic flow throughout the transportation system during construction;
- Minimize traffic delays and facilitate reduction in the overall duration of construction activities;
- Minimize detours and impacts to pedestrians and bicyclists; and
- Foster public awareness of the project and construction-related impacts.

The TMP includes the elements recommended in the Caltrans TMP Guidelines (November 2015) including:

- Public information;
- Motorist Information Strategies;
- Incident Management;
- Construction Strategies; and
- Alternative Route Strategies

- As applicable, a bicycle and pedestrian safety plan for local streets and trails is a component of these strategies.
- o Parking Restrictions

As described in the following section, Stage Construction, an overview of the probable construction staging concept is provided. Prolonged temporary ramp closures are not anticipated. A Transportation Management Plan (TMP) Data Sheet has been prepared and is included as Attachment I.

Stage Construction

Much of the project improvements north of the SR-47 mainline may be constructed prior to any modification to the existing interchange. Grading Knoll Hill and construction of the re-aligned portion of Knoll Hill Drive will ensure access to Knoll Hill is available throughout the remainder of construction. Next, the majority of the westbound ramps, including the terminus intersection, may be constructed outside the current freeway footprint. Access into the West Basin Container Terminal is likely required during construction, but coordination with Port staff may prioritize other container terminal gates to reduce traffic through the intersection during construction.

Overnight closures may be required during reconstruction of the westbound gores. Ramp closure detours are available using Gaffey Street or John S. Gibson Boulevard interchanges. Once the westbound ramps are functioning, the existing westbound ramp may be removed and the new alignment for the eastbound on-ramp may he constructed. Once again, overnight closures for the eastbound on-ramp may be required for reconstruction of the gore area. Widening and reconstruction of the eastbound off-ramp should not require significant temporary ramp closures.

Proposed project improvements do not involve mainline or median construction; therefore closure of the mainline lanes is not anticipated. Proposed improvements will require approximately 18 months to construct.

Accommodation of Oversize Loads

Per policy, State freeways are designed to provide passage for vehicles of unrestricted height while moving in and out of an area. The project interchange features an undercrossing such that oversize loads are not limited on the State Route through the project area. Neither do the proposed ramps contain obstacles to oversize vehicles.

Graffiti Control

Los Angeles is a graffiti-prone area. During subsequent design development, consideration should be given to design features that prevent or deter vandals from accessing bridges, signs, and walls. Landscaping should be considered along proposed noise walls as a measure of graffiti control. Recently installed noise walls west of the project feature vine planting, but it has not yet spread sufficiently across wall faces and graffiti can regularly be observed.

8. FUNDING, PROGRAMMING AND ESTIMATE

Funding

The project is identified in the South Bay Cities Council of Governments (SBCCOG) South Bay Highway Program (SBHP), which is funded by Measure R. Funding was previously allocated to the project for feasibility studies, the PSR, and for PA&ED Support. The Port of Los Angeles has secured funding through the Los Angeles County Metropolitan Transportation Authority for design, construction, and associated support costs. It has been determined that this project is eligible for Federal-aid funding.

Programming

Current programmed amounts for on-going PA&ED Support and planned PS&E, Right-of-way, and Construction related activities are shown in the following table:

Fund Source				Fisc	cal Year	Estimate	Э		
SBHP & Local	Prior	15/16	16/17	17/18	18/19	19/20	20/21	Future	Total
Component			İ	n thousa	nds of d	ollars (\$	1,000)		
PA&ED Support			112	588	300				1,000
PS&E Support					600	1,500	1,200		3,300
Right-of-Way Support			1		500				500
Construction Support								4,700	4,700
Right-of-Way					9,800				9,800
Construction	wayd 1300 3 - 3 +		pan-					23,700	23,700
Total		-	112	588	11,200	1,500	1,200	28,400	43,000

Note: The estimates provided in this table are not based on work to be performed by Caltrans

9. DELIVERY SCHEDULE

Project Milestones		Milestone Date (Month/Day/Year)
PA & ED	M200	06/17/19
60% PS&E	M260	1/31/20
95% PS&E	M300	5/31/20
FINAL PS&E	M377	8/1/20
RIGHT OF WAY CERTIFICATION	M410	5/31/20
FUND ALLOCATION	M470	8/30/20
READY TO LIST	M460	10/31/20
ADVERTISE (POLA)	M480	11/1/20
AWARD	M495	2/1/21
APPROVE CONTRACT	M500	4/1/21
CONTRACT ACCEPTANCE	M600	3/30/23
END PROJECT	M800	3/30/26

Note: The schedule above is local agency's schedule; Caltrans will oversee the PS&E and construction.

10. RISKS

The primary risk to the project during the PID phase was related to the decision on the future use of the former Pacific Harbor Line right-of-way. This threat was eliminated when the rail right-of-way was secured.

Since approval of the PSR, the addition of noise barriers outside the existing right-of-way presented risks associated with acquiring right-of-way and maintenance easements to construct and maintain these features. The results of public survey has removed these noise barriers from the project and therefore removed the associated risks.

Soil and groundwater investigation for the parcels to be dedicated to Caltrans, including any necessary remediation, is planned for the right-of-way phase. This and other low risk threats are identified in the Risk Register included in Attachment N.

11. EXTERNAL AGENCY COORDINATION

Federal Highway Administration (FHWA)

The project is not identified as a "Project of Division Interest."

Port of Los Angeles, Department of City of Los Angeles

The Port of Los Angeles, a department of the City of Los Angeles, is the project sponsor through all project phases. Although Caltrans owns the existing freeway interchange, POLA is the owner of the majority of the adjacent properties and uses impacted by the project improvements. As such, Port staff has regularly attended PDT and focus meetings as well as rendered coordination for and review of technical studies required through these phases. The Port of Los Angeles and Caltrans also continue to coordinate through cooperative agreements.

12. PROJECT REVIEWS

PDT meetings and reviews, including technical study focus meetings, have been conducted throughout development of this Project Report.

This Project Report is not required to be reviewed by the Federal Highway Administration (FHWA) because the proposed project is on a State Highway and determined to be exempt from FHWA review and oversight:

"For projects under this title that are on the National Highway System, including projects on the Interstate System, the State may assume the responsibilities of the Secretary under this title for design, plans, specifications, estimates, contract awards, and inspections with respect to the projects unless the Secretary determines that the assumption is not appropriate." [23 USC 106(c)(1)].

13. PROJECT PERSONNEL

Caltrans Personnel

Name	Unit	Title	Phone
John Vassiliades	Project Management	Project Manager	(213) 897-7395
Hamid Toossl	Design	Design Manager	(213) 897-2923
MD Alam	Design	Project Engineer	(213) 897-4714
Karl Price	Environmental Planning	Senior Environmental Planner	(213) 897-1839
Savannah Speerstra	Environmental Planning	Environmental Planner	(213) 897-2022
Sarah Horn	Traffic	Corridor Manager	(213) 897-5631
Zebunnesa Tareque	Design	District Design Liaison	(213) 897-2669

Consultant Personnel

Name	Firm	Title	Phone
Shannon Willits	AECOM	Project Manager	(714) 567-2626
Brad Slawson	AECOM	Deputy Project Manager	(714) 567-2731
Jayna Harris	LSA	Environmental Coordinator	(949) 553-0666

Implementing Agency Personnel (POLA)

Name	Organization	Title	Phone
Guillermo Martinez	POLA	Project Oversight	(310) 732-3090
Sarah Aziz	POLA	Project Manager	(310) 732-0398

14. ATTACHMENTS (NUMBER OF PAGES)

Attachment	Description
A	Location Map (1)
В	Build Alternative Layout (1)
С	Preliminary Layouts, Profiles, and Typical Cross-sections (3)
D	Existing Utility Map (2)
E	Right of Way Exhibit (1)
F	Right of Way Data Sheet (5)
G	Project Cost Estimate (10)
Н	Negative Declaration (2)
1	Transportation Management Plan (TMP) Data Sheet (3)
J	TASAS Table B (10)
K	Storm Water Data Report (Cover Sheet) (1)
	Hazardous Waste Assessment Letter (13)
M	Project Schedule (3)
N	Risk Register (3)
0	Design Resource Worksheet (1)

Supporting Documents	Description
Negative Declaration / Finding of No Significant Impact	Environmental Document
Traffic Report	Freeway, Ramp and Ramp Intersection Assessments
Noise Study Report & Noise Abatement Decision Report	Noise Assessments Preliminary Sound Wall Locations and Limits Sound Wall Recommendations
Initial Site Assessment	Hazardous Waste investigation

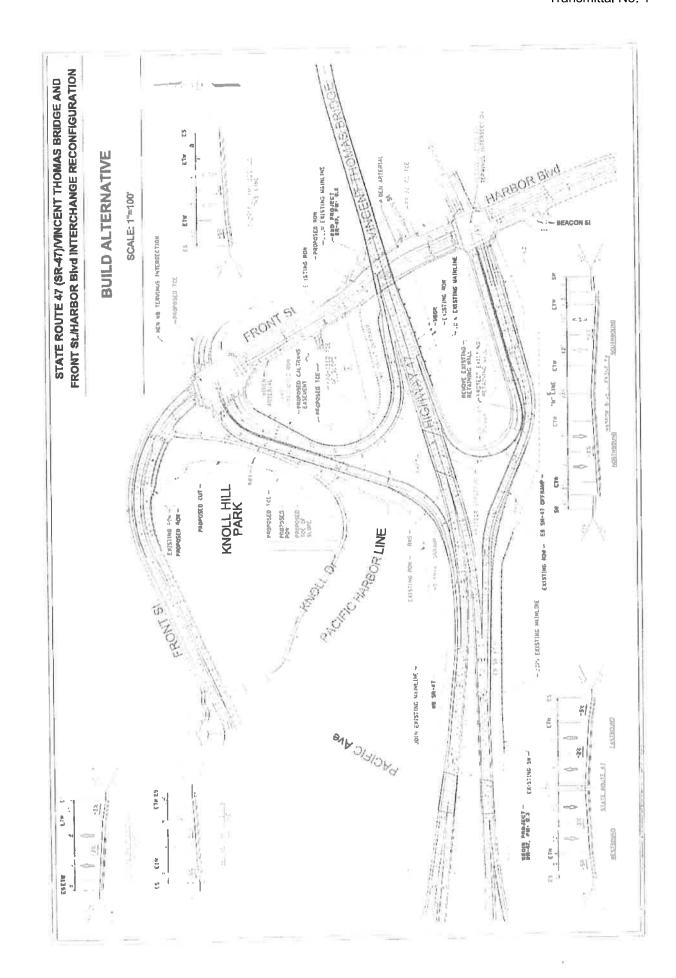
Attachment A
Location Map

Project Location Map



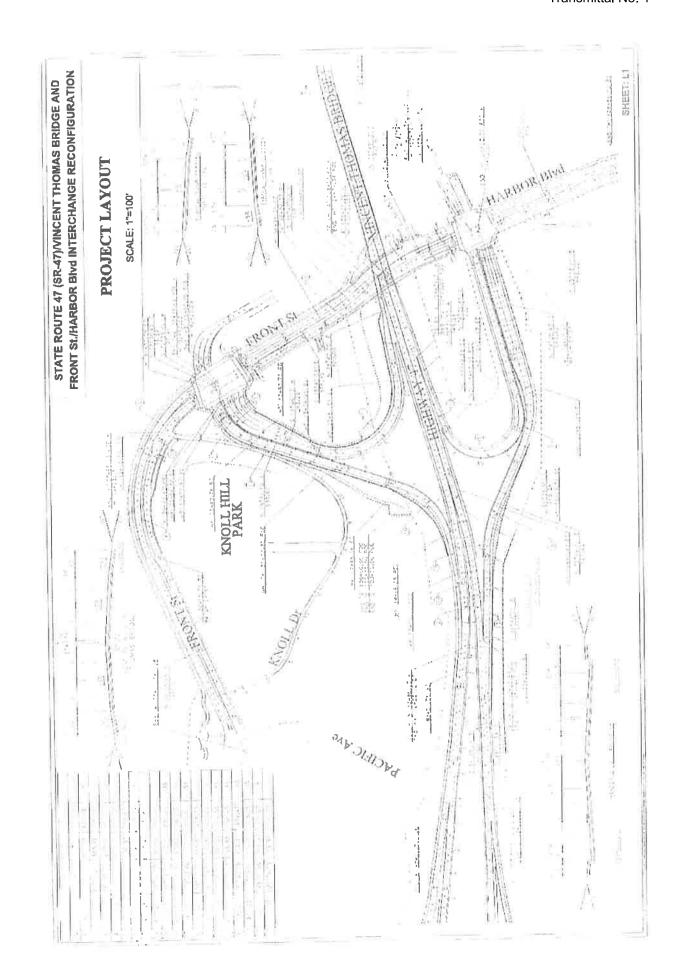


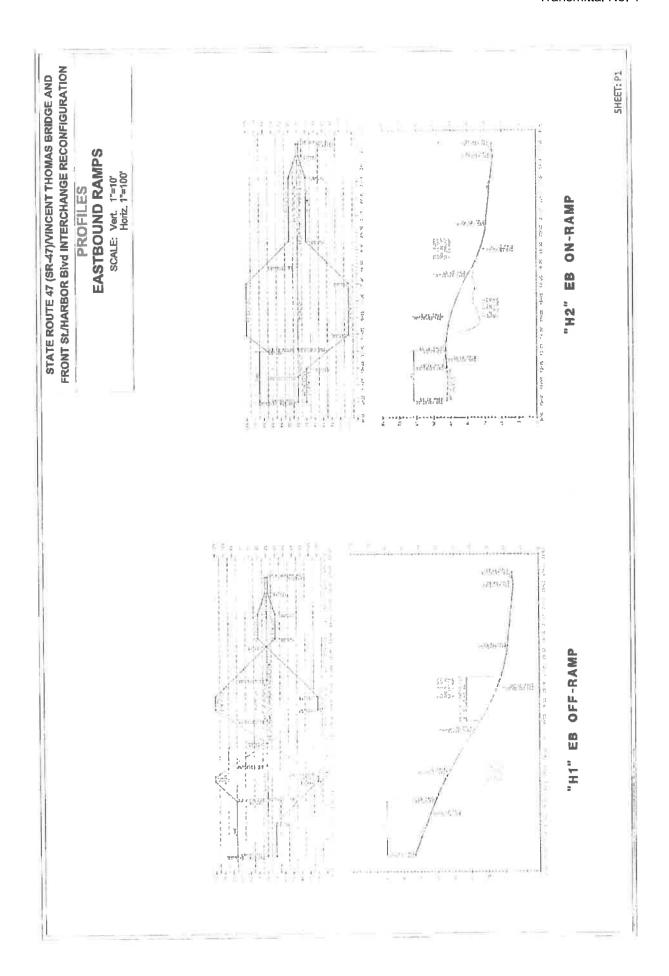
Attachment B Build Alternative Layout

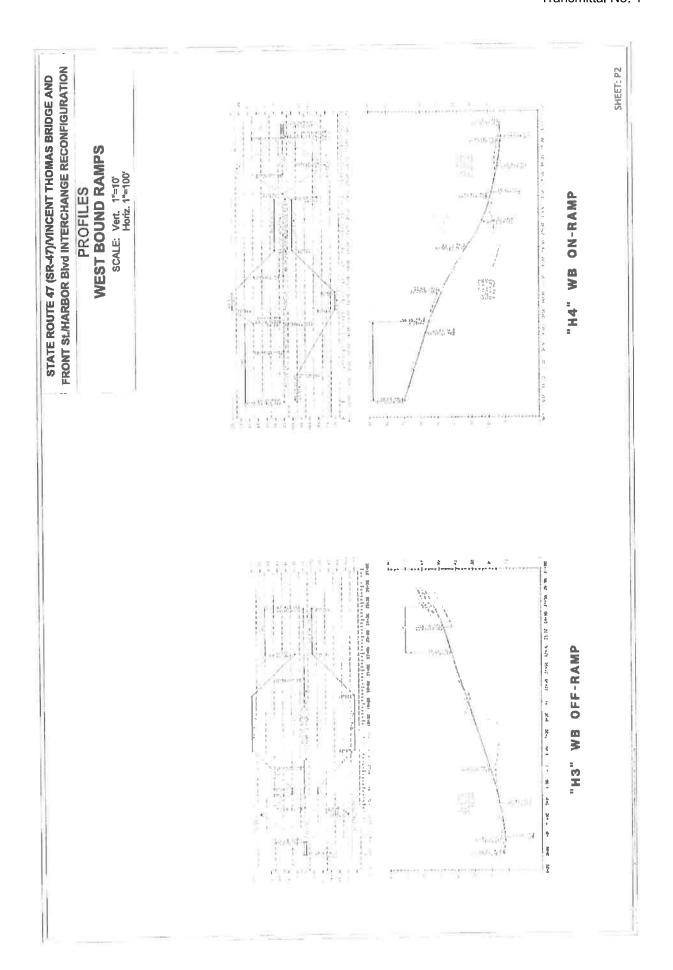


Attachment C

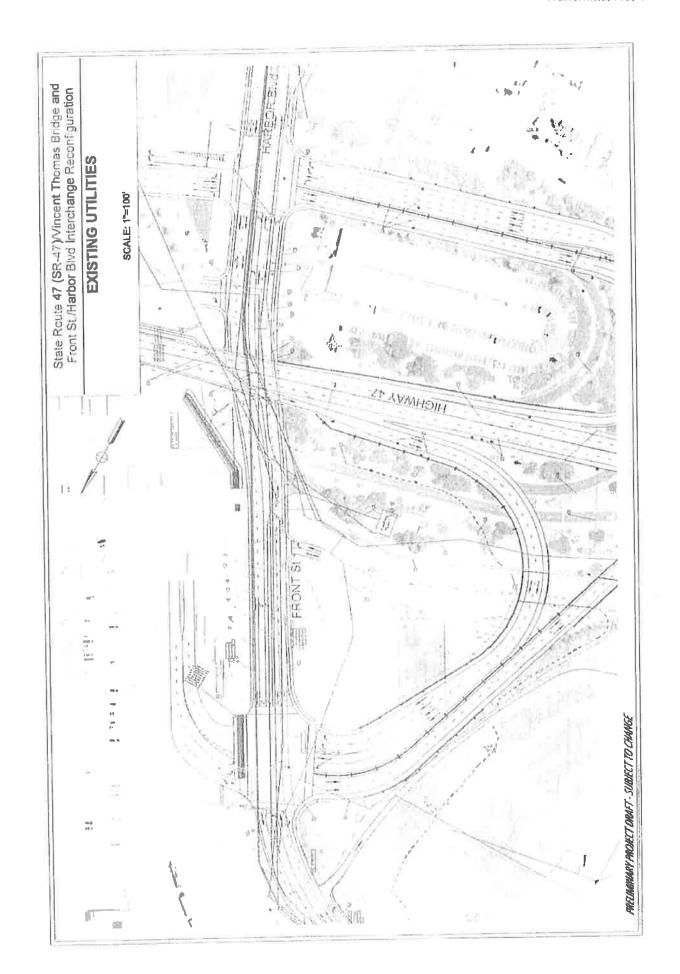
Preliminary Layouts, Profiles, and Typical Cross-sections







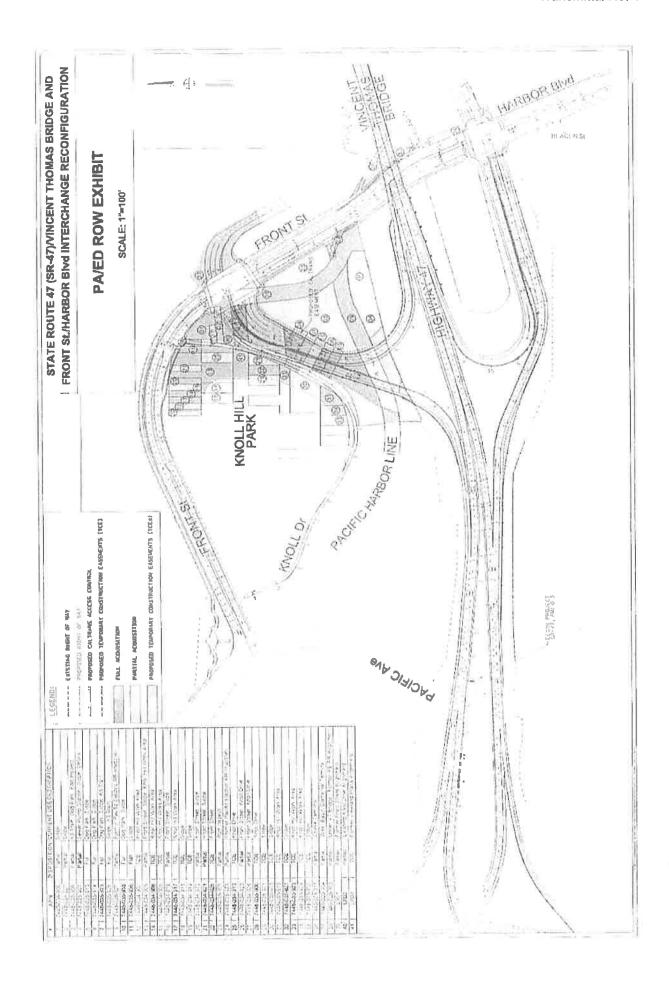
Attachment D Existing Utility Map



State Route 47 (SR-47)/Vincent Thomas Bridge anc Front St./Harbor Blvd Interchange Reconfiguration Existing UTILITY MATRIX

ID. UTILLTY SIZE AND TYPE	UTILITY OWNER	LOCATION
2002 To 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	LADWEL Water	Logica Yo h and of Statlen the Co
	the Silver	In South Town Agest of Contestions of Immusion seek Angelement of the Autoria with Sit 42 and prompt 3
	Table - Witse	in Angli Ding, many of French framework for morthways of the feature w/b CR-25 on remov
Total Section and Market and Market	1	Change the AS Street has the farme with \$25.47 off carry [Addition 1914 against 65 Station [Gray of
Southern Land Section 2015	ADD COMMEN	departement Press, Street and the Later with 5% of other streets of the streets.
TANK TOTAL SOUTH	200	In Party Street from States 32 abbs Scatter 23 abs
	370	In the State from Salar Station Station 2019
	NAM2E	- Frend 31 and Mar = 5 parce 18+10 to 3 fellow 22+33
	(480)	Fruit Street for = States 15-10 for Action 32-552
	(3027) (2407)	0.5200 Store (http://distriction.districti
	220W Water	In Trans Served and was experienced to the Complete of Served To make the Served To Make The Top Continued the Top Conti
		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
South and		For the Normal and the formal price for any Secret States of the States of Significant States of States States of St
	33	te Heri Sched III v Stallon 12-412 0-57 rates (40-42).
		Addition with Strate at addition and present solutions because the system. The extra
		these fullow with 18-57 of fermion position and various as may went of free States?
		Lance of an Deve and American with district models of the ment edge of Paris Cross Land Comment and American States
1		A DOS A TO TO MAN THE MAN AND ASSESSMENT OF THE STREET STREET STREET
A LOUIS OF STATE WITHOUT A LOUIS OF STATE OF STA		[2] 14 ft - 2 - 25 ft 12 cm 12 mm 13 mm 14 mm
A Daving St. University		Comment and Charles for any many and property SNAT Comment and other many for the Many Many Comment and Charles an
		S. 52.
The property of the first of th		And the state of t
FWAT Audit First about 11fre?	Children systems	The formal form which is the formal f
Edition Contact of Species		The state of the s
20分1年前7月1日の1日では1日		THE PARTY OF THE P
AT TABLES SALES DAINT DATES.		NATIONAL STATE AND ALL
Cally of Sen Strenden in Paglices and eases saileds		CONTRACT OF ANY AREA TO SEE TO MEST OF FIGURE SOURCE
THE ST TRE LICE Steps The Day of Decision and could be sing		North or start and west of front Street at above invite Stateon 23-101
Transfer of the familiar of th		North af SE Joy and wagg of Frend Strate Lander for Sulfage wordshound on Ferra and after command of the second
100 Per 100 Per 52 Per 32 Per 100 Per	2,150.5	North of SA 47 and Aest of Front SU ten at beginnings Station 22-55.
	N907	In Figure 19 French than design 22-455 to Status Sandra
	DEN	or Pront firmer Statism 23-36 14 State Co 24-55
III such as 2 County		19 Frant Street fram Station 15 Section 15 S
50 11 11 11 11 11 11 11 11 11 11 11 11 11	SABGE	in Frant Street from Station 22-C0 to Station 200-21
The state of the s	LATER Pares	To Harborn Brid. He m Station. 154-20 to Station 254-30
The state of the s	1,4801	In Tean Steel har Station 22-40 to Salton 26-00
2300 0	Banka Woter	Tay Nat Book Till & as as associated Statistic Co-OD:
	A50E	The Plant of Wald Wald of State of Stat
	(0.00	In respect the State of the Sta
The state of the s		o Harber Nod from Santon 10-60 to Station 21-50
	Listory - Water	In Partice Bud at appraising a Saston 21–50.
1997 20 325 2 10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	LABOE	Harbor Und Inger Files Structure 35-70
The state of the s	EADSNY Savet	When efforces Street under the Sectors with STA wit afficience and an search address with a sed could of this could by the could be address.
	LADIES - Power	In half at Blad. Next on Station Station 21-70
TABLE STREET STANKE		

Attachment E Right-of-Way Exhibit



Attachment F Right of Way Data Sheet

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION EXHIBIT RIGHT OF WAY DATA SHEET FOR LOCAL PUBLIC AGENCIES 17-EX-21 (NEW 12/2007) Page 1 of 5 (Form #) Date 05/30/19 District Division Chief iu. Division of Right of Way and Land Surveys Co. I.A. Rtc. 47 Expense Authorization _ \$18500 District Branch Chief Attention: R/W Local Programs RIGHT OF WAY DATA SHEET - LOCAL PUBLIC AGENCIES Subject: Project Description: Right of way necessary for the subject project will be the responsibility of Port of Los Angeles The information in this data sheet was developed by ABCOM (Consultant) . Right of Way Engineering Will Right of Way Engineering be required for this project? • No _____ • Yes X Hard copy (base map) Appraisal map Acquisition Documents Property Transfer Documents R/W Record Map Record of Survey П. Engineering Surveys Is any surveying or photogrammetric mapping required? No ____ Yes X (Complete the following.) Datum Requirements Yes X Project will adhere to the following criteria: Horizontal - datum policy is NAD 83, CA-HPGN, EPOCH 1991.35 and English system of units and measures. Vertical - datum policy is NAVD 88. Units - metric is not required. No _____ Provide an explanation on additional page. Will land survey monument perpetuation be scoped into the project, if required? 3 Yes X

No _____ Provide explanation on additional page.

RIGHT OF WAY DATA SHEET FOR LOCAL PUBLIC AGENCIES (Cont.) (Form #)

EXHIBIT 17-EX-21 (NEW 12/2007) Page 2 of 5

R/W Data Sho Page 2 of 5

est - 1.0	est Public Agencies			
III.	Parcel Information (Land and Improvements)	<u>, </u>		
	Are there any property rights required within th	e proposed project	limits?	
	No Yes X (Complete	the following.)		
		Part Take	Full Take	Estimate \$
Α,	Number of Vacant Land Parcels	16	6	\$ _5,687,690
B.	Number of Single Family Residential Units			\$
C.	Number of Multifamily Residential Units			\$
D.	Number of Commercial/Industrial Parcels	2		\$ 1,484,874
E.	Number of Farm/Agricultural Parcels			\$
F.	Permanent and/or Temporary Easements	17		\$ 0
G.	Other Parcels (define in "Remarks" section)			\$
	Totals	35	6	\$ 7,172,564
	The project impacts Port of Los Angeles owner inspection facility, Police K-9 training facility, anticipated Permanent and Temporary Easence project sponsor, the Port has assigned no project.	a public off-leash ants are within the	dog park, and a vaca Port of Los Angeles i	nt tall right-of-way. All
IV.	Dedications			
	Are there any property rights which have been "dedication" process for the Project?	acquired, or antici	pate will be acquired	, through the
	No Yes X (Complete	the following.)		
	Number of dedicated parcels24			
	Have the dedication parcel(s) been accepted by	y the municipality	involved? Yes, Port i	s the owner.
V _e	Excess Lands / Relinquishments			
	Are there Cultrans property rights which may			uishment areas?
	No X Yes (Provide a	n explanation on a	dditional page.)	

RIGHT OF WAY DATA SHEET FOR LOCAL PUBLIC AGENCIES (Cont.) (Form #)

EXHIBIT 17-EX-21 (NEW 12/2007) Page 3 of 5

IVW Data St Page 3 of 5

icul - Li	ocal Public Agencles				
VI.	Relocation Informa	tion			
	Are relocation displa	cements anticipated?			
	No X	Yes (Compl	lete the following.)		
A.	Number of Single Fan Estimated RAP		-	\$	
B.	Number of Multifamil Estimated RAP			\$	
C.	Number of Business/N Estimated RAP			\$	
D.	Number of Farms Estimated RAP	Payments		5	
E.	Other (define in the "F Estimated RAP		-	\$	
	Totals				
VII	Do you anticipate a	ngermation ny utility facilities or u Yes <u>X</u> (Com			
			Esti	imated Relocation B	xpense
	Facility	Owner	State Obligation	Local Obligation	Utility Owner Obligation
	A. Water Lines	DWP	S	\$105,000**	S
	B. Gas Lines	So Cal Gas	s	\$11,500**	\$
-	C. Storm Drains	City DPW Water	S	\$41,375**	\$
270	D. Electrical Lines	City DPW Power	S	\$1,970,000**	\$

\$

\$

\$TBD

US Navy Oil

City DOT

E. Oil Lines

F. Misc Electric

Totals

Number of facilities

\$15,300**

\$8,200**

\$2,151,375**

\$

S

\$TBD

Any additional information concerning utility involvement on this project?

^{*}This amount reflects the estimated total financial obligation by the State.

^{**}Utility rights and cost sharing has not yet been investigated. At this time, all utility costs are assumed as general project costs for this locally funded project.

RIGHT OF WAY DATA SHEET FOR LOCAL PUBLIC AGENCIES (Cont.)

EXHIBIT 17-EX-21 (NEW 12/2007) Page 4 of 5

R/W Data Sh Page 4 of 5

iheet - Loc	al Public Agencies		
VIII.	Rail Information		
	Are railroad facilities or railroad	ad rights of way affected?	
	No Yes	X (Complete the following.)	
	Describe railroad facilities or 1	railroad rights of way affected.	
	Owner's Name	Transverse Crossing	Longitudinal Encroachment
A. 1	Port of Los Angeles	Former Pacific Harbor Line	
B.			
Discu	ass types of agreements and right acts, or grade separations that re	ts required from the railroads. Are graquire construction and maintenance a	ade crossings that require services greements involved?
This l	line is no longer active. The proj	ject will remove the inactive rail align	ment on Port of Los Angeles property.
IX.	Clearance Information Are there improvements that i		
	No Yes	X (Complete the following.)	
	Number of Structures to b Estimated Cost of Demoti		\$ 27,500
X.	Hazardous Materials/Haste		
	Are there any site(s) and/or in	provements(s) in the Project Limits t	hat are known to contain
	hazardous materials? None	Yes X (Explain in the "F	Remarks" section.)
		nprovement(s) in the Project Limits th	
		Yes X (Explain in the "Rem	
XI.	Project Scheduling		
		Proposed lead time	Completion date
* P	reliminary Engineering, Surveys	5 (months	
	/W Engineering Submittals	4 (months	
* R	/W Appraisals/Acquisition posed Environmental Clearance	*	TBD
	posed R/W Certification	1	5/31/20
110	L		

RIGHT OF WAY DATA SHEET FO	R LOCAL PUBL	[C AGENCIES (Cont.)	EXHIBI 17-EX-2 Page 5 o	I (NEW 12/2007)
R/W Data Sheet - Local Public Agencies Page 5 of 5				
XII. Proposed Funding				
	Local	State F	rederal	Other
Acquisition Utilities Relocation Assistance Program R/W Support Cost (Eng. Appraisals, etc.)	\$7,200,064 \$2,151,375 \$0 \$500,000			
been found to contain petr corridor. This location is o Honlevard is suspected to	oleum hydrocabuns i mrendy being remedi contain petroleum hy	Street, containing the West on the soil and groundwater ated, The Port of Los Ange drocarbons. The tormer Pacats, is suspected to contain.	heneath an ab les <u>property e</u> itic Hador <u>L</u>	andoned pipeline ast of Harbor ine property, which
Project Sponsor Consultant Prepared by:		Project Spanish Reviewed and Appro	oved by:	-
Brad Slawson (AECOM)		Sarah Aziz (POLA)		
6 · 6 · 19		Date Date	1	
Caltrans Reviewed and approved as to	Form and Procedures			
Caltrans District Branch Chief		Date		

Caltrans District Branch Chief Local Programs Division of Right of Way

Attachment G Project Cost Estimate

PROJECT

PAED PLANNING COST ESTIMATE

EA: 07-318500 PID: 715000304

EA: 07-318400 PID: 716000304

District-County-Route: 07-LA-047

8.00 - E,00 :M4

Type of Estimate: Project Report Cost Estimate

Program Code : 20,30,800.624

Project Limits: From I-110 Connectors to Vincent Thomas Bridge

Project Description: Reconstruction of the SR-47 Herbor Bouleverd/Front Street Interchange

Scope : Interchange Modification

Alternative : Build

SUMMARY OF PROJECT COST ESTIMATE

Curr	ent Year Coat	Escalated Cost			
s	21,997,400	\$	23,685,794		
\$	14	Vision			
\$	21,987,400	\$	23,688,794		
\$	9,351,439	\$	9,763,846		
\$	31,349,000	\$	33,443,000		
5	1,000,000	1	1,060,006		
\$	3,100,000	3	3,300,600		
\$	500,000	8	600,000		
8	4,400,000	\$	4,700,000		
\$	9,000,000	\$	9,600,000		
	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ 21,987,400 \$ 9,381,439 \$ 31,349,000 \$ 1,008,000 \$ 3,180,000 \$ 800,000 \$ 4,400,000	\$ 21,997,400 \$ \$ \$ 21,997,400 \$ \$ 9,351,439 \$ \$ 31,349,000 \$ \$ 3,100,000 \$ \$ 3,100,000 \$ \$ 4,400,000 \$		

TOTAL PROJECT COST	\$ 40,350,000	\$ 42,950,000

If Project has been programmed enter Programmed Amount

M Year

Date of Estimate (MontidYear)

5 2019

Estimated Construction Start (Month/Your)

2 / 2021 Number of Working Days = 250

Epilmated Mid-Point of Construction (Month/Year)

2 / 2022

Estimated Construction End (Month/Year)

3 / 2023

Number of Plant Establishment Days

Extimated Project Schedule

PID Approval PA/ED Approval PS&E

4/1/2017 5/30/2010 8/1/2020

RTL

10/31/2020

Segin Construction

2/1/2021

5/29/19 114.567.2626

101019 310-132-0398

1 of 11

5/30/2019

PROJECT

EA: 07-318500 PID: 715000304

I. ROADWAY ITEMS SUMMARY

	Section		Cost				
1	Earthwork	\$	2,790,400				
2	Pavement Structural Section	\$	4,080,700				
3	Drainage	\$	1,188,100				
4	Specialty items	\$	2,443,300				
5	Environmental	\$	659,100				
6	Traffic Items	\$	1,701,100				
7	Detours	\$					
8	Minor Items	\$	1,286,300_				
9	Roadway Mobilization	5	1,414,900				
10	Supplemental Work	\$	1,414,900				
11	State Furnished	\$	919,000				
12	Time-Related Overhead	\$	1,414,900				
13	Roadway Contingency	\$	2,684,700				
13							
	TOTAL ROADWAY ITEMS	\$	21,997,400				
M. Alexand Designed Dist	Q 12-	5-30-19	714-567-2744				
Estimate Prepared By	Robert Martinez, Roadway Engineer	Dale	Phone				
Estimate Reviewed By	1215_	5-30-19					
	Brad Slawson, Project Engineer	Date	Phone				

PROJECT

EA 07-318500 PID: 715000304

SECTION 1: EARTHWORK

Item code		Unit	Quantity		Unit Price (\$)			Cost
	Roadway Excavation	CY	36,729	¥	20.00	=	\$	734,580
	Roadway Excavation (Type Y-1) ADL	CY	8,500	X	135.00	=	\$	1,147,500
	Ditch Excavation	CY		X		=	Ş	*
	Imported Borrow	CY	34,563	20	20.00	=	\$	691,260
	Structure Excavation (Retaining Wall)	CY		Ж		=	\$	8
	Structure Backfill (Retaining Wall)	CY		×		=	\$	€:
	Pervious Backfill Material (Retaining Wall)	CY		х		=	\$	5
	Dewatering (Retaining Wall)	LS	1	×	50,000,00	=	\$	50,000
///////	Remove Retaining Wall	SF	1.000	х	12.00	=	\$	12,000
180107	Clearing & Grubbing	ACRE	11	Х	5,000,00	=	\$	55,000
	Develop Water Supply	LS	1	x	100,000.00	=	\$	100,000
		ACRE		×	,,	=	S	
210130		Unit		Х		=	Š	
XXXXXX	Some Item	Olin		-			~	

TOTAL EARTHWORK SECTION ITEMS \$ 2,790,400

SECTION 2: PAVEMENT STRUCTURAL SECTION

Itam code		Unit	Quantity		Unit Price (\$)			Cost
	Jointed Plain Concrete Pavement	CY	940	X	260.00	=	\$	244,400
	Continuously Reinforced Concrete Pavement	CY		х		=	\$	
	Seal Pavement Joint	LF		X		=	\$	
	Seal Isolation Joint	LF		Х		=	\$	
	Seal Concrete Pavement Joint (Silicone)	LF		Х		=	\$	
	Seal Pavement Joint (Asphalt Rubber)	LF		X		=	\$	194
	Lean Concrete Base	CY	940	X	170.00	\equiv	\$	159,800
	Rapid Strength Concrete Base	CY		X		=	\$	55
	Dowel Bar (Drill and Bond)	EA		X		=	\$	15
	Hot Mix Asphalt (Type A)	TON	23,620	Х	100.00	=	\$	2,362,000
	Rubberized Hot Mix Asphalt (Gap Graded)	TON		Х		Ξ	\$	-
39300X	Geosynthetic Pavement Interlayer (Type X)	SQYD		х		=	\$	
	Class 2 Aggregate Base	CY	14,030	X	45.00	=	\$	631,350
	Asphalt Treated Permeable Base	CY		X		=	\$	
	Class 2 Aggregate Subbase	CY	6,390	X	40.00	=	\$	255,600
	Class 4 Aggregate Subbase	CY		X		=	\$	-
	Asphaltic Emulsion (Fog Seal Coat)	TON		X		=	\$	(8)
	Tack Coat	TON		X		£	5	0.00
	Slurry Seal	TON		X		\equiv	\$	593
	Screenings (Type XX)	TON		Х		***	\$	1.5
	Asphaltic Emulsion (Polymer Modified)	TON		Х		**	\$	(90)
	Sand Cover (Seal)	TON		Х		Ξ	\$	-
	Minor Concrete (Textured Paving)	CY		X		=	\$	F .
731502	Minor Concrete (Miscellaneous Construction)	CY		Х		27	\$	P.
	Place Hol Mix Asphalt Dike (Type X)	LF		X		==	\$	
150771	Remove Asphalt Concrete Dike	LF		X		=	\$	-
420201	Grind Existing Concrete Pavement	SQYD		X		=	\$	
	Remove Base and Surfacing	SY	28,498	Х	15.00	=	\$	427,470
390095	Replace Asphalt Concrete Surfacing	CY		X		=	\$	-
15312X	Remove Concrete	LF/CY/LS		X		=	\$	*:
394090	Place Hot Mix Asphalt (Miscellaneous Area)	SQYD		X		=	\$	
153103	Cold Plane Asphalt Concrete Pavement	\$QYD		X		=	\$	9
39405X	Shoulder Rumble Strip (HMA, X-In Indentations	STA		Х		=	\$	*
413113	Repair Spalled Joints, Polyester Grout	SQYD		Х		=	\$	
420102	Groove Existing Concrete Pavement	SQYD		X		=	S	-
390136	Minor Hot Mix Asphalt	TON		X		7.0	5	*
394095	Roadside Paving (Miscellaneous Areas)	SQYD		X		=	5	2
	Some Item	Unit		X		=	\$	

TOTAL PAVEMENT STRUCTURAL SECTION ITEMS \$ 4,080,700

EA: 07-318500 PID: 715000304

SECTION 3: DRAINAGE

Nem coda		Unit	Quantity		Unit Price (\$)			Cost		
	Remove Culvert	EA/LF		N			\$	16.		
	Modify Inlet	EA		\geq i		\times	5			
	Sand Backfill	CY		7		14	5			
	Abandon Culvert	EA/LF		1			\$			
	Adjust Inlet	LF		8			\$			
	Cap Inlet	EA		3		",	\$			
	Minor Concrete	CY		-25		equ.	\$			
	Minor Concrete (Minor Structure)	CY		4		=	5	,		
	Minor Concrete (Type XX)	CY		>,		=	\$			
	XX" Alternative Pipe Culvert (Type X)	LF		Х		-	S			
	XX" Plastic Pipe	LF		N,		=	\$			
	XX" Reinforced Concrete Pipe (Type X)	LF		X		***	\$			
CAEVAN	XX" Corrugated Steel Pipe (0.XXX" Thick)	LF		×		•	\$	¥1		
COVVVV	XX" Plastic Pipe (Edge Drain)	LF		×		**	\$	22		
000447	XX" Corrugated Steel Pipe Downdrain (0.XXX'	LF		χ		=	\$	9.		
70004	XX" Corrugated Steel Pipe Inlet (0.XXX" Thick	LF		3		=	\$	51		
70321X	XX" Corrugated Steel Pipe Riser (0.XXX" Thick			λ		=:	\$	*		
707077	XX" Steel Flared End Section	EA		X		£a.	S	10		
	Grated Line Drain	LF		1		=	\$	¥(
	Rock Slope Protection (Type and Method)	CY/TON		×		7	\$	#		
72004	Rock Slope Protection (Type and Method) Rock Slope Protection Fabric (Class X)	SQYD		Х		2	\$	3		
728U1X	Kock Slobe Linguit Lang (order V)	CY		4		è	\$	93		
	Concrete (Ditch Lining)	CY		×		3	\$	-		
	Concrete (Channel Lining) Miscellaneous Iron and Steel	LB		X		υ.	\$	22		
/500007	Roadway Drainage (7.5% Roadway Pavement		1	X	308,052.50	4	\$	306,053		
XXXXXX	(Treatment BMP - Bioswales	AC	3	×	88,000,00	32	\$	294,000		
XXXXXX	Treatment BMP - Infiltration/Detention Basins	AC	В	Ж	73,500,00	=	5	586,000		
		Unit	•	X			5	383		
AAAAAA	C Additional Drainage	-11.4								
					TOTA	LD	RAIN	IAGE ITEMS	\$ 1,166,	100

SECTION 4: SPECIALTY ITEMS

abos me		Unit	Quantity		Unit Price (\$)			Cost	
	Progress Schedule (Critical Path Method)	LS		×		300	9		
	Minor Concrete (Wall)	CY		Х		3	8	5	
10000	Curb and Gutter	LF	1,600	×	90.00	#.	5	144,000	
	Sidewalk	SF	13,000	%	5,00	22	\$	65,000	
	ADA Ramps	EA	11	Х	8,000.00	=	2	88,000	
EGGEV	Remove Sound Wall	LF/LS		λ		100	5	- 3	
	Lead Compliance Plan	LS		Х		-	3		
	Treated Wood Waste	LB		30		=	3	12	
	Remove Concrete Barrier	LF		0		.00	13		
	Remove Metal Beam Guard Railing	LF		Х			3	38	
50002	Remove Flared End Section	EA		76		100	\$		
	Chain Link Fence (Type XX)	LF		16		H	121	Œ	
XXUUUX	Chain Link Fence (Type AA)	EA		×		=	5		
XXXX	XX" Chain Link Gate (Type CL-6)	LF	450	2	35.00	12.	6	15,750	
	Midwest Guardrail System	LF		X		-	5	-	
	Single Thria Beam Barrier	LF		x			4	N	
	Double Thrie Beam Barrier	LF		×		-	5	1	
	Cable Rolling	EA		à			5	- 5	
3395XX	Terminal System (Type CAT)	EA	2	· ·	5.000.00		5	10,000	
839585	Alternative Flared Terminal System	EA	2	x	5,000.00		3	10,000	
839584	Alternative In-line Terminal System	LF	_	· >	0,000,00		5		
1906XX	CIDH Concrete Piling (Insert Diameter)			~		-	S		
	Crash Cushion (Insert Type)	EA		>		-	5	78.1	
	Concrete Barrier (Insert Type)	LF	2.530		60.00	=		151,800	
	Concrete Berrier (Roadside Type 60D)	LF		75	100.00	#	5	1,958,700	
(XXXXX	(Retaining Wall (Type TBD)	SQFT	19,587	<	100,001		Į.	1,000,100	
520103	Bar Reinforced Steel (Retaining Wall)	LB		×		-	Ĭ.		
510060	Structurel Concrete, Retaining Wall	SQFT		8			- 5		
513553	Retaining Wall (Masonry Wall)	SQFT		X					
511035	Architectural Treatment	SQFT		4			98	-	
598001	Anti-Graffiti Coating	SQFT		4					
203070	Rock Stain	SQFT		×			- 200		
5136XX	Reinforced Concrete Crib Wall (Type X)	SOFT		2			- 5		
B3954X	Transition Railing (Type X)	EA		3			- 3		
597601	Prepare and Stain Concrete	SQFT		J.					
839561	Rail Tensioning Assembly	EA		0			- 8		
	End Anchor Assembly (Type X)	EA		V			8	1	
	K Some Item	Unit					2		
	a demostra revers								

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	N 5: ENVIRONMENTAL								
DA - ENV	RONMENTAL MITIGATION								
llem cada		Unit	Quantity		Unit Price (\$)			Cost	
	Biological Mitigation	LS		×		III.	\$		
	Temporary Reinforced Slit Fance	LF		×		#	\$	*	
141000	Temporary Fence (Type ESA)	LF		X	Subtotal En	± v/rc	\$ nme	ntal Miligation &	-
	DSCAPE AND IRRIGATION						Arms		
item sode		Unit	Quantity		Unit Price (\$)			Cost	
	Highway Planting	AC	3	Х	38,000.00	-	2	114,000	
	Irrigation System	AG	3	×	55,000.00	g.	\$	185,000	
	Plant Establishment Work	AC	3	×	16,680.00	T.	7	50,040	
	Extend Plant Establishment Work	LS		X		#	S	*	
	Follow-up Landscape Project	LS LS		X		H	5	-	
	Remove irrigation Facility	LS		×		1	5	10	
	Maintain Existing (Irrigation or Planted Areas)	LS		×		-	S		
	Check and Tost Existing Imigation Facilities	CY/TON		×		-	5	8	
	Imported Topsoli (X) Rock Blankel, Rock Mutch, DG, Gravel Mutch		D	×		1	5		
	Weed Germination	SOYD		×		-	5		
	Water Mater	EA		2		9	8		
	XX" Conduit (Use for Irrigation x-overs)	LF		'n		-	5		
	Extend X" Conduit (Use for Extension of								
20890X	(rrigetion x overs)	LF		K		Ħ	\$		000 - 10
6G - ERC	SION CONTROL				Subtotal La	nas	capo	and Impution S	329,040
liem code		Unit	Quantity		Unit Price (\$)			Cost	
210010	Move In/Move Out (Erasian Control)	EA		×		77	\$		
	Fiber Rolls	LF		×		=	5	12	
	Compost Sock	LF		×		=	5	-	
	Rolled Erosion Control Product (X)	SQFT	_	X		-	\$	18	
		QFT/ACR	E	×		=	5	14	
	Hydromulch	SQFT		×			\$		
210420		SOFT		×		THE PERSON NAMED IN	\$		
	Hydroseed	SQFT		8		=	2	(+	
	Composit	SQFT		X		_	\$		
	Incorporate Materials	auri				_	- 8		
~~~~	Luran Sum Daelan Politition Prevention (DPP)	SY	30000	×	1	2.0	•	30.000	
	Lurnp Sum Design Poliution Prevention (DPP)	SY	30000	X	) Si		S Ial E	30,000 rosion Gontrol \$	30,000
SD - NPC					Si			rosion Gontrol \$	30,000
Item code	DES	Unit	30000 Quantity	X		ublo	ial E		30,000
Item code 130300	Prepare SWPPP	Unit LS		x	Si	ublo	s s	rosion Gontrol \$	30,000
Item code 130300 130200	Prepere SWPPP Prepero WPCP	Unit LS LS		X	Si	ublo	s \$	rosion Gontrol \$	30,000
130300 130200 130100	Prepare SWPPP Preparo WPCP Job Site Management	Unit LS LS		x	Si	# # # # # # # # # # # # # # # # # # #	\$ \$ \$ \$	rosion Gontrol \$	30,000
130300 130200 130100 130330	Prepare SWPPP Prepare WPCP Job Site Management Storm Water Annual Report	Unit LS LS LS		x	Si	# # # # # # # # # # # # # # # # # # #	\$ \$ \$ \$ \$	rosion Gontrol \$	30,000
130300 130200 130100 130330 130310	Prepare SWPPP Prepare WPCP Job Site Management Storm Water Annual Report Rain Event Action Plan (REAP)	Unit LS LS EA EA		x	Si	# # # # # # # # # # # # # # # # # # #	\$ 5 5 5 5 5 5	rosion Gontrol \$	30,000
130300 130200 130100 130330 130310 130320	Prepare SWPPP Prepare WPCP Job Site Management Storm Water Annual Report Rain Event Action Plan (REAP) Storm Water Sempling and Analysis Day	Unit LS LS EA EA		x	Si	# # # # # # # # # # # # # # # # # # #	\$ \$ \$ \$ \$ \$ \$ \$	rosion Gontrol \$	30,000
130300 130200 130100 130330 130310 130320 130520	Prepare SWPPP Prepare WPCP Job Site Management Storm Water Annual Report Rain Event Action Plan (REAP) Storm Water Sampling and Analysis Day Temporary Hydraulio Mulch	Unit LS LS EA EA EA SQYD		x	Si	# # # # # # # # # # # # # # # # # # #	\$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	rosion Gontrol \$	30,000
130300 130200 130100 130330 130310 130320 130520 130550	Prepare SWPPP Prepare WPCP Job Site Management Storm Water Annual Report Rain Event Action Plan (REAP) Storm Water Sampling and Analysis Day Temporary Hydraulio Mulch Temporary Hydroseed	Unit LS LS LS EA EA EA SQYD SQYD		* * * * * * * * *	Si Unit Price (\$)	a a	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	rosion Gontrol \$	30,000
130300 130200 130100 130330 130310 130320 130520 130550 130605	Prepare SWPPP Prepare WPCP Job Site Management Storm Water Annual Report Rain Event Action Plan (REAP) Storm Water Sampling and Analysis Day Temporary Hydraulio Mulch Temporary Hydraulio Mulch Temporary Hydroseed Move-in/Move-Out (Temporary Erosion Contr	Unit LS LS LS EA EA EA SQYD SQYD		* * * * * * * * * * * *	Si Unit Price (\$)	m m	\$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	rosion Gontrol \$	30,000
ltem code 130300 130200 130100 130330 130310 130320 130520 130550 130605 130640	Prepare SWPPP Prepare WPCP Job Site Management Storm Water Annual Report Rain Event Action Plan (REAP) Storm Water Sampling and Analysis Day Temporary Hydraulio Mulch Temporary Hydroseed Move-In/Move-Out (Temporary Erosion Contr	Unit LS LS LS EA EA SQYD SQYD EA LF		* * * * * * * * * * * * *	Unit Price (\$)	a a a a a a a a a a a a a a a a a a a	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	rosion Gontrol \$	30,000
Item code 130300 130200 130100 130330 130310 130320 130520 130550 130605 130840	Prepare SWPPP Prepare WPCP Job Site Management Storm Water Annual Report Rain Eveni Action Plan (REAP) Storm Water Sempling and Analysis Day Temporary Hydraulio Mulch Temporary Hydroseed Move-in/Move-Out (Temporary Erosion Contr Temporary Floar Roli Temporary Concrate Washout	Unit LS LS EA EA SQYD SQYD EA LF LS		* * * * * * * * * * * * * * * * * * * *	Si Unit Price (\$)	m m	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	rosion Gontrol \$	30,000
Item code 130300 130200 130100 130330 130310 130320 130520 130550 130505 130840 130900 130710	Prepare SWPPP Preparo WPCP Job Site Management Storm Water Annual Report Rain Event Action Plan (REAP) Storm Water Sempling and Analysis Day Temporary Hydraulio Mulch Temporary Hydraulio Mulch Temporary Fiber Roli Temporary Concrete Washout Temporary Construction Entrance	Unit LS LS EA EA SQYD SQYD LF LS EA		* * * * * * * * * * * * * * * * * * * *	Si Unit Price (\$)		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	rosion Gontrol \$	30,000
Item code 130300 130200 130100 130330 130310 130320 130520 130550 130505 130840 130900 130710	Prepare SWPPP Prepare WPCP Job Site Management Storm Water Annual Report Rain Event Action Plan (REAP) Storm Water Sampling and Analysis Day Temporary Hydraulic Mulch Temporary Hydroseed Move-in/Move-Out (Temporary Erosion Contr Temporary Fiber Roli Temporary Concrete Washout Temporary Construction Entrance Temporary Check Dam	Unit LS LS EA EA SQYD SQYD LF LS EA LF		* * * * * * * * * * * * * * * * * * * *	Unit Price (\$)			rosion Gontrol \$	30,000
Item code 130300 130200 130100 130330 130310 130320 130520 1305505 130680 130900 130710 130810 130820	Prepare SWPPP Prepare WPCP Job Site Management Storm Water Annual Report Rain Event Action Plan (REAP) Storm Water Sampling and Analysis Day Temporary Hydraulio Mulch Temporary Hydroseed Move-In/Move-Out (Temporary Erosion Contr Temporary Floar Roli Temporary Concrete Washout Temporary Construction Entrance Temporary Check Dam Temporary Dreinage Inlet Protection	Unit L8 LS LS EA EA SQYD SQYD LF L8 EA LF EA		* * * * * * * * * * * * * * * * * * * *	Si Unit Price (\$)			rosion Gontrol \$	30,000
Item code 130300 130200 130100 130330 130310 130320 130550 130550 130564 130564 130900 130710 130810 130820 130730	Prepare SWPPP Prepare WPCP Job Site Management Storm Water Annual Report Rain Event Action Plan (REAP) Storm Water Sampling and Analysis Day Temporary Hydraulic Mulch Temporary Hydroseed Move-In/Move-Out (Temporary Erosion Contr Temporary Floar Roli Temporary Concrate Washout Temporary Construction Entrance Temporary Check Dam Temporary Orietnage Inlet Protection Street Sweeping	Unit L8 LS LS EA EA SQYD SQYD EA LF L8 EA L8	Quantity	* * * * * * * * * * * * * * * * * * * *	Unit Price (\$)			rosion Control \$	30,000
Item code 130300 130200 130100 130330 130310 130320 130520 130550 130560 130640 130710 130810 130820 130730	Prepare SWPPP Prepare WPCP Job Site Management Storm Water Annual Report Rain Event Action Plan (REAP) Storm Water Sampling and Analysis Day Temporary Hydraulio Mulch Temporary Hydroseed Move-In/Move-Out (Temporary Erosion Contr Temporary Floar Roli Temporary Concrete Washout Temporary Construction Entrance Temporary Check Dam Temporary Dreinage Inlet Protection	Unit L8 LS LS EA EA SQYD SQYD LF L8 EA LF EA		* * * * * * * * * * * * * * * * * * * *	Unit Price (\$)			rosion Gontrol \$	
Item code 130300 130200 130100 130330 130310 130320 130550 130550 130564 130564 130900 130710 130810 130820 130730	Prepare SWPPP Prepare WPCP Job Site Management Storm Water Annual Report Rain Event Action Plan (REAP) Storm Water Sampling and Analysis Day Temporary Hydraulic Mulch Temporary Hydroseed Move-In/Move-Out (Temporary Erosion Contr Temporary Floar Roli Temporary Concrate Washout Temporary Construction Entrance Temporary Check Dam Temporary Orietnage Inlet Protection Street Sweeping	Unit L8 LS LS EA EA SQYD SQYD EA LF L8 EA L8	Quantity	* * * * * * * * * * * * * * * * * * * *	Si Unit Price (\$)		S S S S S S S S S S S S S S S S S S S	cost  Cost  300,000 total NPDES \$	300,000
Item code 130300 130200 130100 130310 130310 130320 130520 130550 130505 130800 130710 130810 130820 130730	Prepare SWPPP Prepare WPCP Job Site Management Storm Water Annual Report Rain Event Action Plan (REAP) Storm Water Sampling and Analysis Day Temporary Hydraulic Mulch Temporary Hydroseed Move-In/Move-Out (Temporary Erosion Contr Temporary Floar Roli Temporary Concrate Washout Temporary Construction Entrance Temporary Check Dam Temporary Orietnage Inlet Protection Street Sweeping	Unit L8 LS LS EA EA SQYD SQYD EA LF L8 EA L8	Quantity	* * * * * * * * * * * * * * * * * * * *	Si Unit Price (\$)		S S S S S S S S S S S S S S S S S S S	cost S	300,000
ltem code 130300 130200 130100 130330 130310 130320 130520 130550 130505 130840 1309710 130810 130820 130730 XXXXXX	Prepare SWPPP Prepare WPCP Job Site Management Storm Water Annual Report Rain Event Action Plan (REAP) Storm Water Sampling and Analysis Day Temporary Hydraulic Mulch Temporary Hydroseed Move-in/Move-Out (Temporary Erosion Contr Temporary Fiber Roli Temporary Concrete Washout Temporary Construction Entrance Temporary Check Dam Temporary Drainage Inlet Protection Street Sweeping (Lump Sum NPDES (1.5% total project cost)	Unit LS LS LS EA EA SQYD SQYD LS EA LF EA LS %	Quantity	* * * * * * * * * * * * * * * * * * * *	20,000,000		S S S S S S S S S S S S S S S S S S S	cost  Cost  300,000 total NPDES \$	300,000
Item code 130300 130200 130100 130330 130310 130310 130520 130550 130505 130605 130600 130710 130710 130730 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Prepare SWPPP Prepare WPCP Job Site Management Storm Water Annual Report Rain Event Action Plan (REAP) Storm Water Sampling and Analysis Day Temporary Hydraulic Mulch Temporary Hydraulic Mulch Temporary Hydrosaed Move-In/Move-Out (Temporary Erosion Contr Temporary Fiber Roli Temporary Concrete Washout Temporary Construction Entrance Temporary Check Dam Temporary Drainage Inlet Protection Street Sweeping Lump Sum NPOES (1.5% total project cost)	Unit LS LS LS EA EA SQYD SQYD LS EA LF EA LS %	Quantity	* ***********	20,000,000		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	cost  Cost  300,000 total NPDES \$	300,000
Item code 130300 130200 130100 130300 130310 130320 130550 130555 130505 130505 130505 130505 130730 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Prepare SWPPP Prepare WPCP Job Site Management Storm Water Annual Report Rain Event Action Plan (REAP) Storm Water Sampling and Analysis Day Temporary Hydraulic Mulch Temporary Hydroseed Move-in/Move-Out (Temporary Erosion Contr Tamporary Fibar Roli Temporary Concrete Washout Temporary Construction Entrance Temporary Check Dam Temporary Check Dam Temporary Drainage Inlet Protection Street Sweeping Lump Sum NPOES (1.5% total project cost)	Unit L8 LS LS EA EA SQYD SQYD EA LF EA L8 EA L8 K	Quantity	X	20,000,000		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	cost  Cost  300,000 total NPDES \$	300,000
Item code 130300 130200 130200 130200 130300 130330 130320 130520 130550 130505 130605 130810 130920 130730 XXXXXX	Prepare SWPPP Propero WPCP Job Site Management Storm Water Annual Report Rain Event Action Plan (REAP) Storm Water Sampling and Analysis Day Temporary Hydraulio Mulch Temporary Hydroseed Move-In/Move-Out (Temporary Erosion Contr Tamporary Fiber Roli Temporary Concrete Washout Temporary Concrete Washout Temporary Check Dam Temporary Check Dam Temporary Dreinage Inlet Protection Street Sweeping (Lump Sum NPDES (1,5% total project cost)  mental Work for NPDES Water Pollution Control Maintenence Sharing*	Unit LS LS EA EA SQYD SQYD LF LS EA LF LS	Quantity	X X X X X X X X X X X X X X X X X X X	20,000,000			cost  Cost  300,000 total NPDES \$	300,000

[&]quot;Applies to both SWPPPH and WPCP projects

[&]quot; Applies only to project with SIVPAPE

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							EW 01-91090	N FIS	11000000
SECTION 6: TRAFFIC ITEMS									
6A - Traffic Electrical	) bula	Overtille		Unit Price (\$)			Cost		
item code	Unit	Quantity 24	х	12,500.00	1750 1170	\$	300,000		
860460 Lighting and Sign Illumination	EA/LS	2	x	150,000 00	TE .	\$	300,000		
860201 Signal and Lighting	LS	1	X	60,000.00	===	5	50,000		
860990 Closed Circuit Television System	LS	2	×	25,000.00	=	S	50,000		
86110X Ramp Metering System	LS	1	×	45,000.00	77	5	45,000		
86070X Cable, Data, & Video Nodes	LF/LS	3	X	40,000.00	3	\$	120,000		
5602XX Furnish Sign Structure (Type X)	EA	3	X	5,000.00	=	5	15,000		
5602XX Install Sign Structure (Type X)	EA	3	×	3,000.00	- dead Tony	S	10,000		
498040 XX" CIDHC Pile (Sign Foundation)	LF	1	X	10,000.00	=	\$	10,000		
86080X Inductive Loop Detectors	EA/LS	1	X	15,000.00	=	\$	15,000		
860090 Maintain ExistingTraffic Monitoring Station	LS EA/LS	2	X	5,000.00	=	\$	10,000		
15075X Remove Sign Structure	EA	2	×	Q1000.00	=	ŝ	10,000		
151581 Reconstruct Sign Structure	EA		X		=	\$			
152641 Modify Sign Structure	LS		×		-	\$	- 2		
860090 Maintain Existing Traffic Management System I	LS	i	X	120,000.00	***	\$	120,000		
86XXXX Fiber Optic Conduit System	LS	1	×	25,000.00	=	3	25,000		
XXXXX Relocate / Modify existing Flashing Warning Sig	LS	•	X	20,000.00	ude.	S			
XXXXX Some Item	LS		^			Ψ			
				Sub	total	Trai	ffic Electrical	\$	1,060,000
6B - Traffic Signing and Striping	A Rould	Quantity		Unit Price (\$)			Cost		
itom code	Unit	Quantity	30	011111111111111111111111111111111111111	==	S			
566011 Roadside Sign - One Post	EA		N N		=	169			
566012 Roadside Sign - Two Post	EA		×		=	9.00			
5602XX Furnish Sign	SQFT		×		-	5	- 3		
568016 Install Sign Panel on Existing Frame	SQFT		- 0		-	4.0	10		
150711 Remove Painted Traffic Stripe	LF		- 2		=	Š			
141101 Remove Yellow Painted Traffic Stripe	SQFT		- 30		=	8	2.00		
150712 Remove Painted Pavement Merking	EA		- 0			S	18		
150742 Remove Roadside Sign	EA		8		=	8	190		
152320 Reset Roadside Sign	EA		- 5		3000	60	79.0		
152390 Relocate Roadside Sign	EA		×		=	5			
82010X Delineator (Class X)			30		=	5			
840502 Thermoplastic Traffic Stripe (Enhanced Wet Nij	SQFT		×		=	S			
846012 Thermoplestic Crosswalk and Pavement Markin	LS		×			35	160		
120090 Construction Area Signs	LS		- 2		East See	3			
84XXXX Permanent Pavement Delineation		1	- 06		Made Marin	5	306,053		
84XXXX Striping Lump Sum (7.5% cost of Roadway Pa\ XXXXXX Roadside Signs Lump Sum	LS	1	30		27	5	25,000		
AAAAA Rosuside signs comp som				Subtotal Traffi	a Sir	right	and Slumma	3	231,053
				Carrier 11					
6C - Traffic Management Plan	Unil	Quantity		Unit Price (\$)			Cost		
itom coda	EA/LS	1	34		=	s	60,000		
12865X Portable Changeable Message Signs	ENLO	*0							
				D. Marial Tra	Hie.	(Inn	agement Plan	3	50,000
				Subtolet 11	ine i	VICITIO	igement i tan	-	00,000
6C - Stage Construction and Traffic Handling	Unit	Quantity	,	Unit Price (\$	)		Cost		
120199 Traffic Plastic Drum	EA	_	. 9	į.	27	- \$			
12016X Channelizer (Type X)	EA		- 3		325	S			
120120 Type III Barricade	EA		2	Ę.	===	S	¥		
129100 Temporary Crash Cushion Module	EA		5	0	Trial Trial	Ş			
120100 Traffic Control System	LS		2	¢	2000	S	*		
129110 Trame Control System 129110 Temporary Crash Cushion	EA		- 8	4	=	\$	-		
129000 Temporary Railing (Type K)	LF		- 3		301	\$	0		
120000 Temporary Railing (199615) 120149 Temporary Pavement Marking (Paint)	SQFT		- 3	ė.	100	90			
82010X Delineator (Class X)	EA		3	<	=	197			
XXXXXX Stage Construction Lump Sum	Unit	1	1	250,000 00	=	_	250,000		
XXXXXX Some item	Unit			¢	-	\$			
		Sublota	I St	age Construction	n ar	nd Tr	effic Handling	5	250 000
			1	TO	TAI	TR	AFFIC ITEMS	S	1,701,100
			100						

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### **SECTION 7: DETOURS**

Includes constructing, maintaining, and removal

Itom codo		Unit	Quantity	Unit Price (\$)		Cost	
190101	Roadway Excavation	CY		30	=	\$	
19801X	Imported Borrow	CY/TON		×	27	\$	
390132	Hot Mix Asphalt (Type A)	TON		X	Ξ	\$	
26020X	Class 2 Aggregate Base	TON/CY		3K	=	\$	
	Class 4 Aggregate Subbase	CY		X	=	\$	
130620	Temporary Drainage Inlet Protection	EA		×	70	\$	2.00
	Temporary Railing (Type K)	LF		X	==	\$	
128601	Temporary Signal System	LS		X	#F	\$	
	Temporary Pavement Marking (Paint)	SQFT		X	=	\$	
	Temporary Fence (Type X)	LF		X	=	\$	
	Some Item	Unit		X	=	\$	

TOTAL DETOURS \$

SUBTOTAL SECTIONS 1 through 7 \$ 12.862.700

# **SECTION 8: MINOR ITEMS**

8A - Americans with Disabilities Act Items 128,627 1.0% \$ ADA Items 8B - Bike Path Items 128,627 1.0% Bike Path Items 8C - Other Minor Items 8.0% 1,029,016 Other Minor Items \$ 1,286,270 \$ 12,862,700 x 10.0% Total of Section 1-7

TOTAL MINOR ITEMS

# SECTIONS 9: MOBILIZATION

Item code
999990 Total Section 1-8 \$

\$ 14,149,000 x 10%

\$ 1,414,900

TOTAL MOBILIZATION \$ 1,414,900

# SECTION 10: SUPPLEMENTAL WORK

Item code		Unit	Quantity	Unit	Price (\$)		Cost	
066670	Payment Adjustments For Price Index Fluctuations	LS		×	=	\$		28
066094	Value Analysis	LS		×	No.	\$		
066070	Maintain Traffic	LS		×	=	\$		X
066919	Dispute Resolution Board	LS		×	=	\$		7
066921	Dispute Resolution Advisor	LS		×	==	\$		
	Federal Trainee Program	LS		X	=	\$		
066610	Partnering	LS		X	urings (1) for	5		
066204	Remove Rock and Debris	LS		×	=0	\$		
066222	Locate Existing Crossover	LŞ		X	=	\$		12
	Some Item	Unit		×	=	\$		1+

Cost of NPDES Supplemental Work specified in Section 5D = \$

Total Section 1-8 \$ 14,149,000 10% = \$ 1,414,900

TOTAL SUPPLEMENTAL WORK \$ 1,414,900

1,286,300

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# SECTION 11: STATE FURNISHED MATERIALS AND EXPENSES

Item code		Unit	(	Quantity		Uni	t Price (\$)		Cost
	Resident Engineers Office	LS		_	х			400	\$0
	Traffic Management Plan - Public Information*	LS		1	X	\$	23,400	20	\$23,400
068901	Water Expenses	LS			Х			12	\$0
	Traffic Monitoring Station (X)	LS			Х			70	\$0
	Traffic Controller Assembly	LS			Х			20	\$0
	Traffic Signal Controller Assembly	LS			Х			11	\$0
	COZEEP Contract*	LS		ī	х	S	46,592	27	\$46,592
	Reflective Numbers and Edge Sealer	LS			×			25	\$0
	Tow Truck Service Patrol	LS			X			22	\$0
	Annual Construction General Permit Fee	LS			Х			14	\$0
	Some Item	Unit			×			22	\$0
	Total Section 1-8		\$	14,149,000			6%	12	\$ 848,940

*Reimbursable work by the State

TOTAL STATE FURNISHED \$919,000

# SECTION 12: TIME-RELATED OVERHEAD

Total of Readway and Structures Contract Items excluding Mobilization Total Construction Cost (excluding TRO and Contingency) \$14,149,000 (used to calculate TRO)

\$17,897,800 (used to chack if project is greater than \$5 million excluding conlingency)

Estiamted Time-Releated Overhead (TRO) Percentage (0% to 10%) =

10%

Item code

Unit

Quantity

Unit Price (\$)

Cost

070018 Time-Related Overhead

WD

250

X \$5,660

\$1,414,900

TOTAL TIME-RELATED OVERHEAD

\$1,414,900

Note: If the building portion of the project is greater than 50% of the total project cost, then TRO is not included.

# SECTION 13: ROADWAY CONTINGENCY

Recommended Conlingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total Section 1-11

\$ 17,897,800

15%

\$2,684,670

TOTAL CONTINGENCY

\$2,684,700

EA: 07-318500 PID; 715000304

# II. STRUCTURE ITEMS

DATE OF ESTIMATE Name Bridge Number Structure Type Width (Feet) [out to out] Total Length (Feet) Total Area (Square Feet) Structure Depth (Feet) Footing Type (pile or spread) Cost Per Square Foot	00/00/00  XXXXXXXXXXXXXXXXXXXXXXXXXXXXX	00/00/00  x0000000000000000000000000000	00/00/00 100000000000000000000000000000
COST OF EACH STRUCTURE	\$0	\$0	\$0
Bridge Number Structure Type Width (Feet) [out to out] Total Length (Feet) Total Area (Square Feet) Structure Depth (Feet) Footing Type (pile or spread) Cost Per Square Foot	57-XXX xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	\$7-XXX  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	57-XXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
		TOTAL COST OF BI	<u>'</u>
		TOTAL COST OF BU	
Recommended Continuency (Pre-PSR 30%	-50%. PSR 25%. Draft PR 20%. PR	Structures Mobilization Percentage  15%, after PR approvel 10%, Final PS&E 5%)	10% 50
<b>4</b>			25% \$0
		TOTAL COST OF STRUCTURES	\$0
Estimate Prepared By	316	5-2	-9 - 19

						EA: 07-3 16500 PID: 715080304
III. RIG	HT OF WAY	Y ation from the Right of V	Vay data shee	ıL.		
	A 43 Ammi	utelitan includion Exces	s Land Purch	alies, Dameges & Goodwill, Fees	1	7,172,584
A)		1210			5	0
					\$	0
B)	Acquisition of Offs	site Mitigation				
C)	G1) Utili	ty Relocation (State Sha	ita)		\$	0
-,	C2) Poli	holing (Design Phase)			*	v
	Ratiroad Acquisiti	lon			3	Û
D)	Maniona Voderan	011			8	27,500
E)	Clearance / Dame	alition			•	21,000
E).	Deiscollen Assist	tance (RAP and/or Lest	Resort Housi	ng Costs)	\$	0
F)	(Adibodioi) / Wala				3	0
G)	Title and Escrew				3	•
H)	Environmental R	eviaw			\$	Q
.,,			A84		8	0
1)	Condemnation S	ettiements	0%			
J)	Design Apprecia	tion Factor	0%		5	0
	remain professional	(Construction Cost)			\$	2,151,375
K)	Called Relocation	(CDUBILGCIDI, COST)				
					DTILL TE	\$9,351,439
L)				TOTAL RIGHT OF WAY	-SIMAIE	\$8,001,400
				TOTAL DAMESTINATE.	Espainted	\$9,753,645
(M)				TOTAL R/W ESTIMATE:	Eacalated	V-11-0-10-15
			-			and the state of t
				RIGHT OF WAY SUI	PPORT	\$500,000
N)				RIGHT OF WAT GO		
		1.				
		F2/			714-557-2701	
Support Co	at Estimate Prepared	itm pat 6	Spool Facilities.		Phone	
		72	<u></u>		714-587-2731	
Utility Ex	timete Propered By	Los - A	omerander ¹		Phone	
		PAC			714-567-2731	
R/W A	equisition Estimate	15-27/			714-307-2731 Phone	
	Prepared By	Reptiol V	Yay Estrona '			

# Attachment H Negative Declaration

SCH Number: 2018101003

# **Negative Declaration**

Pursuant to: Division 13, Public Resources Code

# Project Description

The California Department of Transportation (Caltrans), in cooperation with the City of Los Angeles Harbor Department (LAHD), proposes to reconfigure the existing interchange at State Route 47 (SR-47)/Vincent Thomas Bridge and Harbor Boulevard/Front Street, The project limits on SR-47 extend from approximately Post Mile [PM] 0.3 to PM 0.8 (SR-47 from west of Harker Street to east of North Front Street) in the City of Los Angeles in Los Angeles County, California.

# Determination

Caltrans has prepared an Initial Study (IS) for this project and, following public review, has determined from this study that the proposed project would not have a significant impact on the environment for the following reasons.

The proposed project would have no impact on the following resources: Agriculture and Forest Resources, Mineral Resources, Population and Housing, Wild and Scenic Rivers, and Threatened and Endangered Species.

The proposed project would have less than significant impacts to: Land Use and Planning, Coastal Zone, Public Services, Utilities and Service Systems, Transportation/Traffic, Visual/Aesthetics, Cultural Resources, Paleontological Resources, Hydrology and Water Quality, Geology and Soils, Hazards and Hazardous Materials, Air Quality, Noise, Recreation, Biological Resources, and Tribal Cultural Resources.

ahl-Kosinski

Deputy District Director

Division of Environmental Planning, District 7

California Department of Transportation

# CALIFORNIA DEPARTMENT OF TRANSPORTATION FINDING OF NO SIGNIFICANT IMPACT

FOR

State Route 47/Vincent Thomas Bridge and Front Street/ Harbor Boulevard Interchange Reconfiguration Project

The California Department of Transportation (Caltrans), in cooperation with the City of Los Angeles Harbor Department (LAHD), has determined that Alternative 3 (Build Alternative) will have no significant impact on the human environment. This Finding of No Significant Impact (FONSI) is based on the attached Environmental Assessment (EA), which has been independently evaluated by Caltrans and determined to adequately and accurately discuss the need, environmental issues, and impacts of the proposed project, and the appropriate mitigation measures. It provides sufficient evidence and analysis for determining that an Environmental Impact Statement (EIS) is not required. Caltrans takes full responsibility for the accuracy, scope, and content of the attached EA (and other documents as appropriate).

The environmental review, consultation, and any other action required by applicable federal environmental laws for this project are being, or have been, carried out by Caltrans pursuant to 23 U.S.C. 327 and the Memorandum of Understanding dated December 23, 2016, and executed by the Federal Highway Administration (FHWA) and Caltrans.

March 8, 2019

Ronald Kostuski

**Deputy District Director** 

Division of Environmental Planning, District 7 California Department of Transportation

# Attachment I

Transportation Management Plan (TMP) Data Sheet

# TRANSPORTATION MANAGEMENT PLAN DATA SHEET (Preliminary TMP Elements and Costs)

Co/Rte/PM:	07-LA-47 PM 0.3 - 0.8	EA:	31850	Alternative No.	Build
Project Limit:	From I-110 Connectors to Vincent Thom	as Bridge			
Project Descrip	tion: Reconfigure existing intercha ramp terminus. Modify and r reconstruct Harbor Blvd and termini.	econstruct	t eastboun	d ramps. Modify a	
1) Public	c Information (by POLA staff and resource	s)			
V	a. Brochures and Mailers			\$	9,000
<b>~</b>	b. Press Release			\$	0
	c. Paid Advertising			\$	14,400
	d. Public Information Center/Kiosk				0
[7]	e. Public Meeting/Speakers Bureau			\$	0
	f. Telephone Hotline			\$	0
[7]	g. Internet			\$	0
	h. Other: Social networking portals such	as Faceboo	ok <mark>and</mark> Tw	itter \$	0
	<ul><li>b. Changeable Message Signs (Portable)</li><li>c. Ground Mounted Signs</li><li>d. Highway Advisory Radio</li></ul>			\$ \$ \$ \$ \$	0 60,000 0 0 0
3) Incid	Program (COZEEP) b. Freeway Service Patrol c. Traffic Management Team d. Helicopter Surveillance	ment		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	46,592 0 0 0 0
	f. Others			\$	0

4) Construction Strategies		
a. Lane Closure Chart	\$	0
b. Reversible Lanes	\$ \$	0
☐ c. Total Facility Closure		0
d. Contra Flow	\$	0
e. Truck Traffic Restrictions		0
f. Reduced Speed Zone	\$	0
g. Connector and Ramp Closures	\$	0
h, Incentive and Disincentive	S	0
i. Moveable Barrier (included in Section 5 of project Cost Estimate)	\$	0
j. Others	S	0
5) Demand Management		
a. HOV Lanes/Ramps (New or Convert)	\$	0
b. Park and Ride Lots	\$	0
c. Rideshare Incentives	\$	0
d. Variable Work Hours	\$	0
e. Telecommute		0
f. Ramp Metering (Temporary Installation)	\$	0
g. Ramp Metering (Modify Existing)	\$	0
h. Others	\$	0
Children of an Device Chaptering		
6) Alternative Route Strategies	\$	0
<ul> <li>a. Add Capacity to Freeway Connector</li> <li>b. Street Improvement (widening, traffic signal etc.)</li> </ul>	\$	0
	\$	0
	\$	0
d. Parking Restrictions	\$	0
e. Others		
7) Other Strategies		
a. Application of New Technology	\$ 5	0
b. Others	\$	0
TOTAL ESTIMATED COST OF TMP ELEMENTS =	S	129,992
TOTAL ESTIMATED COST OF THAT EDISHIBITED		

		2014 20 20	
Pro	N 21 6	Sec. 25. 6	mel .
1 2 61	CC	12.75 (2.6)	Sec. 3.

PREPARED BY

Brad Slawson, PE AECOM

DATE 5-36-19

APPROVAL RECOMMENDED BY

Denis Katayahna, Sr. T.E.,

Caltrans District 7

APPROVED BY

DATE 6/10/2019

Mort Fahrtash, PhD, P.E. District Traffic Manager

# **Attachment J**

# TASAS TABLE B

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Accident Rates expressed as: # of accidents / Million vehicle infles

* denotes that Million Vehicles (MV) used in accident rates instead (for intersections and ramps).

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Accident Rates expressed as: # of accidents / Million vehicle miles

+ denotes that William Vehicles (MV) used in accident rates instead (for intersections and ramps).

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Accident Rates expressed as: # of accidents / Million vehicle miles

⁺ denotes that Willian Vehicles (MV) used in accident rates instead (for intersections and ramps).

For Ramps RUS only considers R(Rural) U(Urban)

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+ denotes that Million Vehicles (MV) used in accident rates instead (for intersections and ramps).

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Accident Rates expressed as: # of accidents / Million vehicle miles

+ denotes that Million Vahicles (IAV) used in accident rates instead (for intersections and ramps).

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Accident Rates expressed as: # of accidents / Million vehicle miles

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Accident Rates expressed as: # of accidents / Million vehicle miles

+ denotes that Million Vehicles (MV) used in accident rates instead (for intersections and ramps).

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Accident Rates expressed as: # of accidents / Million vehicle miles

+ denotes that Million Vehicles (MV) used in accident rates instead (for intersections and ramps).

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Accident Rates expressed # of accidents / Million vehicle miles

+ denotes that Million Vehicles (MV) used in accident rates instead (for Intersections and ramps).

# Attachment K Storm Water Data Report (Cover Sheet)

(07-LA-SR-47), (0.3/0.8) (EA 318500)

# Long Form - Stormwater Data Report (May 2019)

	Dist-County-Ro	oute: 07-	LA-47			
	Post Mile Limi					
	Type of Work:	Freeway	Ramp Modifica	tions/Conf	figurations	-
	Project ID (EA)	: 071500	00304 (318500	))		
fathans	Program Ident	ification:	20.30.600.62	4		
amphilia and angel person	Phase: 🗌 PID		☑ PA/ED	☐ PS&	E	
Regional Water Quality Control Bo	oard(s): Region	4, Los Ange	eles Region			
Total Disturbed Soil Area: 13.3	Acres	PCTA:	2.2 Acres			
Alternative Compliance (acres):	O Acres	ATA	2 (50% Rule)?		Yes 🗌	No 🛛
Estimated Const. Start Date: 1	0/1/2020	Estimated (	Const. Complet	ion Date:	9/30/20	022
Risk Level: RL 1	RL2 ⊠ F	8L3 🗆	WPCP	Other:		
Is MWELO applicable? Yes	⊠ No □			14		
Is the Project within a TMDL (Tota	i Mavimum	Yes ⊠	No 🗆			
Daily Load watershed)?		163 🔼	NO []			
TMDL Compliance Units (	acres): 10.61					
Notification of ADL reuse (if yes, p	rovide date):	Yes	Date:			No 🛛
attests to the technical informatio	n contained herei	in and the o	late upon whici	recomme	endations,	
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# Attachment L Hazardous Waste Assessment Letter

AECOM 999 W. Town & Country Road Orange, CA 92868 714 567 2400 www.secom.com

# **Technical Memorandum**

То	MD Alam (Caltrans)
dd	Sarah Aziz (POLA)
	EA 318500: SR 47/Vincent Thomas Bridge & Front Street/Harbor Boulevard
Project	Interchange Reconfiguration Project
Subject	Final ISA – Addendum #1
From	Brad Slawson
Date	September 24, 2018

This memo is to serve as Addendum #1 to the Initial Site Assessment for the SR 47/Vincent Thomas Bridge & Front Street/Harbor Boulevard Reconfiguration Project, signed March 22, 2017.

### Summary

Project improvements were refined during the PA/ED phase due to minor modifications to roadway geometry and grading as well as introduction of several feasible noise walls during completion of the Noise Study. Information for these additional parcels have been collected and analyzed; this memo and attachments contain updated tables and figures to supersede those in the original ISA. Review of the updated project area has not changed the original recommendations in the ISA because the additional parcels are not considered to represent potential for environmental concern to the project area.

This memo also adds brief discussion on groundwater.

### **Environmental Study Area**

The project area was updated to reflect minor modifications to roadway geometry and grading as well as the addition of feasible noise walls introduced by the Noise Study. The previous study area encompasses the modified study area and has not changed.

The table below, Parcels Comprising the Project Area, has been updated to reflect these changes and additions. Figure 3, a map of the project area, has been updated and is attached to this memo. Lastly, Table 1, Summary of On-Site EDR Listings, has been updated and is also attached to this memo.

# Parcels Comprising the Project Area (updated):

(Note: Parcels in BOLD indicate future parcels to be dedicated to Caltrans in part or in whole)

No.	APN No.	D indicate future parcels to be dedicated to Caltrans in pa Current Use	Proposed Work Affecting the Parcels		
1	7440-024-911	Cruise Terminal	Roadway		
2	7440-025-904	West Basin Container Terminal	Roadway / Utility		
5	7448-034-905	Knoll Hill, Vacant	Roadway Grading		
6	7448-034-906	Knoll Hill, Vacant	Roadway and Grading		
7	7448-034-913	Knoll Hill, Vacant	Roadway Grading		
8	7448-034-916	Knoll Hill, Vacant	Roadway Grading		
9	7448-034-918	Knull Hill, Vacant	Roadway Grading		
10	7448-034-919	Knoli Hill, Vacant	Roadway Grading		
11	7448-034-920	Knoll Hill, Vacant	Roadway Grading		
12	7448-034-921	Knoll Hill, Vacant	Roadway Grading		
13	7448-034-923	Knoll Hill, Vacant	Roadway and Grading		
14	7448-034-926	Knoll Hill, Vacant	Roadway and Grading		
15	7448-034-927	Knoll Hill, Vacant	Roadway and Grading		
16	7448-035-901	Knoll Hill, Vacant	Roadway Grading		
17	7448 035-905	Port Police Truck inspection Facility	Road way / Utility		
18	7448-035-906	K9 Training Facility, Dog Park, Truck Inspection	Proposed Ramp / Utility		
19	7448-035-907	Sewer Pump Station, Grading	Roadway / Walls / Utility		
20	7448-035-908	Knoll Hill, Park and Vacant	Roadway Grading		
21	7448-035-913	Knoll Hill, Vacant Land, and Dog Park	Proposed Ramp		
22	7448-035-914	Knoll Hill, Vacant Land, and Dog Park	Proposed Ramp		
26	7448-035-921	Knoll Hill, Vacant	Roadway Grading		
30	7448-035-925	Knoll Hill. Vacant and K9 Training Facility	Proposed Ramp		
31	7448-035-926	Knoll Hill, Vacant Land, and K9 Training Facility	Proposed Ramp		
32	7448-035-927	UPRR Former Pacific Harbor Line, Vacant Land (Same as Parcel 932)	Proposed Ramp		
33	7448-035-930	Knoll Hill, Park and Vacant	Roadway Grading		
30	7446-033-830	UPRR Former Pacific Harbor Line, Vacant Land (Same Parcel as			
34	7448-035-932	927)	Proposed Ramp		
35	7448-035-935	Knoll Hill, Vacant Land, and K9 Training Facility	Proposed Ramp		
36	7448-035-936	Knoll Hill, Port Police Truck inspection Facility	Proposed Ramp		
40	7448-034-902	Knoll Hill, Vacant	Roadway Grading		
41	7448-034-908	Knoll Hill, Vacant	Roadway Grading		
42	7448-034-909	Knoll Hill, Vacant	Roadway Grading		
43	7448-034-917	Knoli Hill, Vacant	Roadway Grading		
44	7448-034-925	Knoll Hill, NE   Pacific Harbor Line sliver right-of-way near Front St. same as 7448-	Rondway Grading		
45	7448-035-928	035-933	Roadway / Utility		
46	7448-035-900	Knoll Hill, E	Roadway Grading		

No.	APN No.	Current Use	Proposed Work Affecting the Parcels			
47	7448-036-003	Residence on Knoll Hill	Feasible Soundwall			
48	7448-036-901	Adjacent to property on Knoll Hill	Feasible Soundwall			
49	7448-036-910	Adjacent to property on Knoll Hill	Feasible Soundwall			
50	7448-036-912	Adjacent to property on Knoll Hill	Feasible Soundwall			
51	7448-036-917	Adjacent to property on Knoll Hill	Feasible Soundwall			
52	7448-036-918	Adjacent to property on Knoll Hill	Feasible Soundwall			
53	7449-002-001	Residence above EB ramps	Feasible Soundwall			
54	7449-002-022	Residence above EB ramps	Feasible Soundwall			
55	7449-003-044	Residence above EB ramps	Feasible Soundwall			
56	7449-003-039	Residence above EB ramps	Feasible Soundwall			
57	7449-003-020	Residence above EB ramps	Feasible Soundwall			
58	7449-003-019	Residence above EB ramps	Feasible Soundwall			
59	7449-003-048	Residence above EB ramps	Feasible Soundwall			
60	7449-003-051	Residence above EB ramps	Feasible Soundwall			
61	7449-003-053	Residence above EB ramps	Feasible Soundwall			
62	7449-003-052	Residence above EB ramps	Feasible Soundwall			
63	7449-007-023	Residence above EB ramps	Feasible Soundwall			
64	7449-007-012	Residence above EB ramps	Feasible Soundwall			

#### Groundwater

Shallow groundwater is expected within the project area. Construction activities that may come in contact with groundwater are retaining wall construction and new or modified roadway drainage systems. Off-site removal of any nearby contaminated top-soil is recommended before subsurface activities begin. Although contact with groundwater is not anticipated, dewatering costs have been included in the Project Cost Estimate. Geological boring, including groundwater depth, will be procured during Final Design to assist in retaining wall and grading design. Should the contractor encounter groundwater during construction they are to follow protocol described in the Caltrans "Field Guide to Construction Site Dewatering" and the Construction General Permit.

# Recommendations

Parcels 1 and 2 have shown historical presence of soil and groundwater contamination. Depth to groundwater near these parcels has been reported between 4 and 11 feet below ground surface (bgs). The deepest excavations are planned to a depth of approximately 10 feet bgs, therefore it is likely groundwater will be encountered during excavation activities. The recommendations are amended such that soil investigations at or near these parcels will also include groundwater investigation in order to

assess the potential presence of hazardous contaminants and to determine disposal options if necessary for any contaminated groundwater.

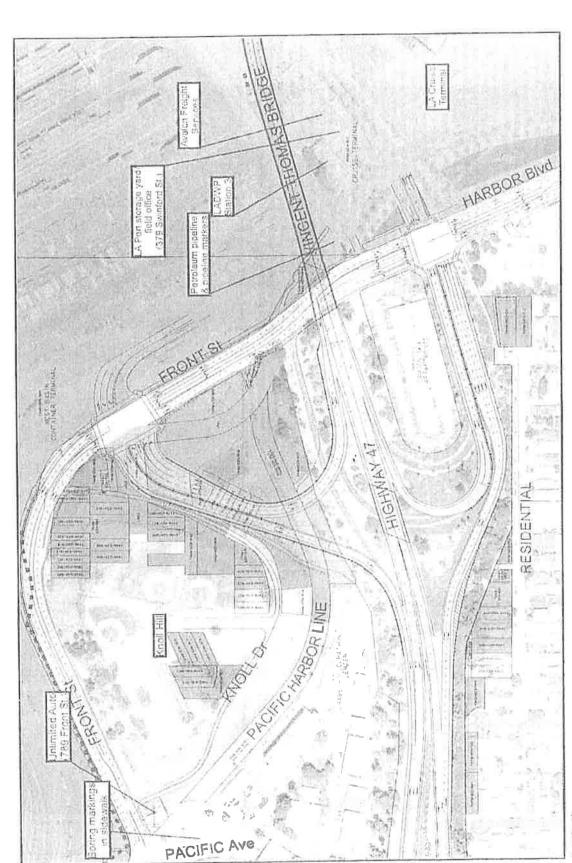
Regarding parcels planned to be dedicated to Caltrans; further soil, soil vapor, and groundwater testing will be conducted and completed prior to the right-of-way certification phase to identify the presence, nature, and extent of contaminants over the full extent of the property to be dedicated and determine required remediation which may include excavation and disposal of contaminated material. If contamination is identified, a remediation plan will be prepared, implemented, and completed prior to right-of-way certification. The remediation plan will be subject to Caltrans review and approval, and if applicable regulatory agency review and approval, prior to implementation. The Port of Los Angeles acknowledges that the remediation of these parcels must be completed and a site closure document issued by any overseeing regulatory agencies prior to the end of project construction. Following construction of the project, these parcels will be dedicated to Caltrans (see Figure 3).

### **Updated Attachments**

Figure 3 – Project Area Detailed Map

Table 1 – Summary of On-Site EDR Listings

SR-47 Interchange Project Los Angeles, California



Parcels Comprising the Project Area

S Former Oil & Gas Well

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Parcels proposed to be dedicated in part or in whole to Caltrans as part of the proposed project



Table 1 - Summary of Onsite EDR Listings SR-47 Inbarchange Project Los Angeles, California

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Table 1 - Summary of Onsite EDR Listings SR-47 Interchange Project Los Angeles, California

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Table 1 - Summary of Onsite EOR Usthips SR-47 Interchange Project Los Angeles, California

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Table 1 - Summary of Onsite EDR Listings SR-47 Interchange Project Los Angeles, California

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### Table 1 - Summary of Onsite EDR Listings SR-47 Interchange Project Los Angeles, California

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is reway of the County Alpinor which received that Place Alb commiss of APA FARIQUES ST (Lews) as 25% Flows, who shall be share. Seek on a remay of or-lone that mappened by the registeries is the special of the bank of Amail Ether, and of Perlis. Awares, and restly of 20.4%. The rathmad right of way is not convertly in Exp. (In Ing. were denoted a special only this pares).	A review of the County Assessor website revealed that Parcel #39 consists of APN 7449-005-010. Rased on a review of on fine most are photographs, Parcel #35 consists of a multi-family residential property (Samoan Sea Aportments) located adjatorit to the south of SF-47. The address associated with this parcel was not identified in the EDR Report.	A review of the County Agressar website revealed that Parcel addressing of APN Jane-134-131 with the associated address of 149 Your Print Street Based on a review of on-line maps and photographs, Parcel #40 counts of a portion of undeveloped upod associated with Kingl Hill Park Jocaled south of Front Street and north of Knoll Brive. The address associated with this parce: was not identified in the EOP Report.	A review of the County Assessor website revealed that Parcel 441 contacts of APN 7448 GB4 908 with the associated addresses of 24% West Viewiand Place, Based on a review of on-line maps and photographs, Parcel 461 cunsists of a portion of undeveloped land issociated with final Hill Park focated south of Front Street and north of Endl Orive. The addresses associated with this parcel were not identified in the EDR Report	A review of the County Assessor website revealed that Parcel M42 consists of APN 7448 034 9034 with the associated addresses of %50. West viewland Place, Based on a review of on-line maps and photographs, Parcel #12 consists of a portion of undervitaped land associated with Anoll Hill Park keeded south of Front Street and nearth of Knoll Drive. The addresses associated with this or of 120 or o	A teview of the County Assessur websile revealed that Parcel #43 consists of APN 7448 034-417 with the acordated and recogning that foot Street Based on a review of on line, received.  North Front Street Based on a review of on line maps and photographs Parcel #43 consists of a portion of undevelopest line, seed with Anol Hill Park Incated so Jith of End End Report.  The EDA Report.	A review of the County Assessor website revealed that Paicel Mdd consists of APN 7448 034 725 with the associated sociated and 1757 and in front Street. Based on a review of on-line maps and photographs, Parcel Mdd scorists of a portion of undersoloped land occord and with Knoll Mill Park located south of Recot Street and morth of Knoll Dove. The additest associated with this parcel was not ideal fact in met 20%. Report.	A review of the County Assessor website revealed that Parcel #45 consists of APN 7448-035 928 [same as APN 7448 035 929 3 see beliaw) Based on a review of on line maps and photographs, Parcel #45 consists of a porton of the Pacific Harbor line right of wey locate's adjacent to the west of Front Siroct, bouth of the dog park entrance, and north of SR-47. The railroad right of-way is not currer tiv in us- No EDR Inthigs were identified associated with this parce?	A review of the County Assessor website revealed that Farca: 466 consists of APN 7448-035-906 with the associated address of 23 West Vewland Place based on a review of or-time maps and photographs. Parcel 846 consists of a portion of land associated with Incill 4; Park Idealed south of Front Street and west of Knoll Drive. The address associated with this purcel was not identified in the EDR Peneron	A review of the Church Accessor within the feeled that Parcel E47 consists of A55, 7448-036-033 with the associated address of 833 West Visional Blace. Based on a review of on-line maps and changegraphs, Parcel R47 consists of a single family residential structur - on Kreil XIII Park located south of Viewland Place, North of Knoll Orive, and west of Canter Street. The address associated with this parcel was not limited in the EDR Report.	Areview of the County Assessor website revealed that Parcel dds consists of APN 7448-036-901 with the associated address of 333 there. Wewland place, Based on a review of on-line maps and chotegraphs, Parcel add consists of a portion of fand associated with knotl Hill Park located south of Wewland Place, went of Center Street, and north of Knoll Drive. The address associated with this parcel was not dentified in the EIDR Report.
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7748-035-926	7449-005-010	7445-034-502	748-034 OSE	\$05:360 Sks.	7448 034 917	7348.034-925	74.48-035-978	7448-035-900	7448-035-003	7446-036-901
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Table 1 - Summary of Onsite EOR Listings SR-47 Interchange Project Los Angeles, California

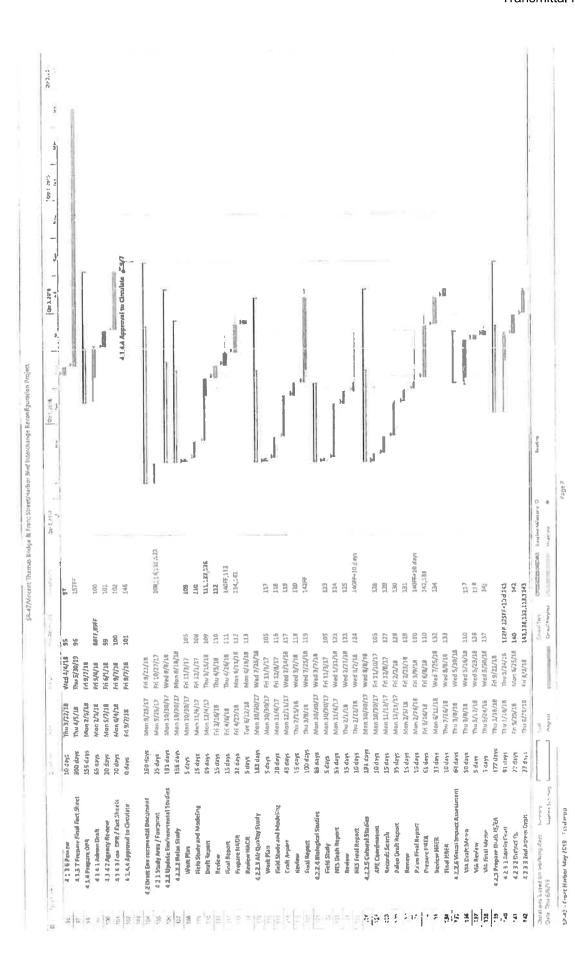
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4 review of the County Assessor website revealed that Parkel 449 consists of APN 7444-036-510 with the associated address of 77.3 w Center Street Based on a review of orthine maps and photographs, Parkel 849 combits of a portion of larg associated with Yord in Park ocased south of Viewland Parce, west of Center Street, and north of Knoll Other. The address associated with the partin was not identify of in the EDR Report.	Aregow of the County Assessor withing revealed that Pares #th contints of APM 7448-036-912 with the associated attention that West. Vicestand Place, Based on a review of de-line maps and photographs, Paresl \$50 consists of a portion of land associated with Knoff K-1. Parkousted south of Viewfand Place, west of Center Street, and north of Enoll Crise. The address accordated with this par Alwaco, of develope in the EDR Report.	A review of the County Assessor wholly revealed that Parcel 95.1 Consists of ADM 7948 036-917 will the associated address of 757 % Contact Street. Based on a review of on-line maps and photographs, Parcel 65.1 consists of a portion of line associated with facilities between of Center Street, and north of Kindl Drive. The address associated with this percel with not more more in the EDR Report.	A resonwold for forming Assessor weakte rouss and phatographs, Parcel 852 consists of a perion of fan Associated ad fress of 155 in Committee Speech on a review of on line mass and phatographs, Parcel 852 consists of a perion of fan Associated with the prace. West of Center Stetch, and north of Knoll Drive. The address, associated with the prace. West of Center Stetch, and north of Knoll Drive. The address, associated with the prace.	a review of the County Assassor websity that Parcel \$53 consists of APN 7444 CD2 OUT with the COUNTY Assassor websites the county Assassor websites and photographs, Parcel \$53 consists of a single family reudentus structure of Its in Usahad mining of 58 47 and east of Harry Sincer "The address associated with this percel was not identified in the EDR Report	Arm or the County Assusses website to a stated \$34 consists. APN 125 CELOCAL A COUNTY TO CELOCAL A Section of County Assusses the CELOCAL ASSUSTANCE OF A Section of County of Celocal Section of Celocal Assustance of Celocal Section of Celocal Assustance of Celocal	A THE MENT OF STANDARD AND AND AND AND AND AND AND AND AND AN	A residency of the County Attesportability backs and consists of APIN 72.05-003-058 with ne associated differs ( \$4-50 on a riving and photographs, Paried \$456 consists of a plot of land between the single family residences morth of Amer. 1924 T, if the hill south of SR-47 and cost of Mere Sincer. The address associated with this parcel was not identified in the COR Resort.	h review of the County Assessor website revealed that Parcel 457 consists of APM 7449-003-020 with the associated address of 564 Ams. Stress, Based on a roview of on line maps and photographs, Parcel 457 consists of a clugic family residential structure on the bill located tourb of SR-47, north of Amar Street and east of Mrsa Street. The address associated with this parcel was not kentilled to the EDP. Report.	A trackers of the County Assessor website revealed that Parcel #58 consists of July 1449-408-0139 with the associated address of 352 Anni Ferez. Based on a realew of on-fine maps and photographic, Parcel #58 consests of a a single family residencial structure on the his incurted family residencial and east of Mera Streat. The address associated with this parcel was not strainfind in the EDi. Appart.	A magen of the County Assessor website revealed that Pares! \$59 consists of A a single family residential structure or the hill localed sounds at a single family residential structure or the hill localed sounds of SR-47, menth of Amar Street and east of Mesa Street. The address associated with this parcet was not identified in the EDR Amport.
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221 N CENTERST	327 W VIEWLAND PL	767 N CENTER 51	763 M CEW 23.51	S72 HARKER 51	623 N MESA ST	515 HE5A 5T	No address associated	364 IV ANAR 5T	352 W AMAR ST	340 W AMAR ST
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Table 1 - Summary of Onsite EDR Ustings SR-47 Interchange Project Los Angeles, Califonia

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itract dased on a review of on-line maps and photographs, Parcel #60 corushs of a a single family residential structure on the his in arted popular of \$F-41, north of Amar Street and east of Mesa Street. The address associated with this parcel was not identified in the ED4 apport.	is review of the County Assassor within a revalled that Parcel #61 consists of APM 7449-003-025 with the appreciated address of \$4.6 Americance on the religious and review of on-line maps and photographs, Parcel #61 consists of a a single lomity residential structure on the his occased point of SR-47, morth of Amar Street and east of Meca Street. The address associated with this parcel was not identified in the EDR Apport.	A review of the County Assessor website revealed that Parcel ME2 consists of APN 7449-6018-652 with the associated address of 314 Amar Street, Based on a review of on-line maps and phatographs, Parcel ME2 consists of a a single Ramlly residential structure on the bill touted south of SA-47, north of Amar Street and each of Mesa Street. The address associated with Dis porcel was not identified in the EDR Report.	in review of the County Assessor website revealed that Parcel 1653 consists of APM 7449-007-023 with the assiciated address of 500 N. Palos Verdes Streat. Based on a review of on-line maps and photographs, Parcel 1663 consists of a single family residential structure on the hill located sauth of the eb SR-47 exit, west of Harbor Blvd, and east of Palos Verdes Street. The address associated with this parcel was not identified in the EDR Report.	Areniew of the County Assessor website revealed that Parcel 16th consists of APN 7449-407-612 with the associated address of 536 N. Palos Verdes Street. Based on a review of on-line maps and photographs, Parcel 16th contrists of a single family residential structure on the hill locarized south of the eb SR-47 exit, west of Harbor Blvd, and asse of Palos Verdes Street. The address associated with this parcel was not identified in the EDA Report.
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# Attachment M Project Schedule

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		Wed 3/27/16	Mon 6/17/19							
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4015		Wed 11/2/15	Wed 11/2/16	61						
First CSR2 Seview		Wed 11/9/15		in the						
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FDE 7	O Chys	Tue 4/11/17		76FS-2 days						
#DI 0	0 days	Werd 8/30/17	Wed 8/30/17			PD1 # • 8/30				
9204	3 6495	Wed 9/27/17	Wed 9/27/17			POT 9 4 9/27				
DT 10e	U GRYS	Wed 10/25/17	Wed 10/25/17			PDT 10 + 10/250				
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Task Z. Transportation Studies	211 days	Wed 1/27/16	31/91/11 pem	le.						
Task 3 - Praises Shady Report	310 days	Man 2/1/16	Fri 4/7/17							
Task 4 - PA/ED Phase	del days	Man 5/25/17	Man 6/17/19							150
4 1 Grafe Praject Repen	410 days	Mon 10/9/17	Mon 6/12/19							
A. J. Cornerate Drawings	TOO days	Mon 20/9/17	Fri 3/3/18	76	9155+25 days.8155					
4 1.1.1 Undate Traffic Study	7G days	Mon 10/9/17	Fri 1/25/18	90055	82		-			
4.1.1.2 Review Traffic Study	15 days	Nion 1/29/1E	Fri 2/16/18	61			j			
4.4.2 Coc-posting Symfast	375 days	Mon 1/8/18	Man 6/17/19							-
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Attachment N
Risk Register

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#### STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

### RISK REGISTER CERTIFICATION (ACCOUNTABILITY CHECKPOINTS) FORM

PPM-D07-0001 (REV 09/2018)

The risk register is to be approved and signed-off by the District Deputies listed below for all scalability levels. By signing this form, you are certifying that you have reviewed the risks documented in the register and agree that they have been managed to the extent possible by the PDT.

	laintenance Project (Check One) Total Estimated Cost 318501	\$41M
	SR 47/Vincent Thomas Bridge & Front St./Harbor Blvd. Inter-	change Reconfig.
Project Manager	Sarah Aziz	
Project Risk Manager	Sarah Aziz	
□No Risk Register Certification Required Check box if proje	act is leay than \$1 million in total cost and risk register not prepared. Sign	below and submit this
form with PID, PA&ED, PS&E submittal, and RE Handoff File	a fac automobility	5/14/19
Project Manager Signature		VIIII
PID (Recommended for Capital Projects Only exc	luding Mirior Projects)	
Project Manager		****
Deputy District Director, Planning		
Deputy District Director, Design	Date:	
Deputy District Director, Traffic Operations		
Deputy District Director, Maintenance	Date:	
Deputy District Director, Project Management	Date:	
PA&ED (Required for Capital Projects Only)		
Project Manager	Date:	5/14/19
Deputy District Director, Environmental	Date:	
Deputy District Director, Design	Date:	
Deputy District Director, Traffic Operations	Date:	
Deputy District Director, Maintenance	Date:	
Deputy District Director, Project Management	Date;	
Prior to PS&E (Required for Capital Projects and M		
Project Manager	Date:	
Deputy District Director, Design	Date:	
Deputy District Director, Construction	Date:	
Deputy District Director, Right of Way	Date:	
Deputy District Director, Environmental	Date:	
Deputy District Director, Traffic Operations	Date:	
Deputy District Director, Maintenance	Date;	
Deputy District Director, Project Management	Date;	
RE File Hand-off (Recommended for Capital Proje	ects and Major Maintenance Projects)	
Project Manager	Date:	
Deputy District Director, Design		
Deputy District Director, Construction		***
Deputy District Director, Traffic Operations	Date;	
Deputy District Director, Maintenance	Date:	
Deputy District Director, Project Management	Date:	

## Attachment O Design Resource Worksheet

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