

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 \_\_\_\_\_

(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, \_\_\_\_\_ (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

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:
- Resolution *Insert Number*, "Adoption of Program of Projects for the Active Transportation Program", dated \_\_\_\_\_
- 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 Trade Corridor Enhancement Program, 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  
None.

**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 Reconfiguration

Resolution \_\_\_\_\_

*(see attached)*

\_\_\_\_\_  
Date

City of Los Angeles Harbor Department

Project Applicant

*(see attached)*

\_\_\_\_\_  
Date

City of Los Angeles Harbor Department

Implementing Agency

\_\_\_\_\_  
Date

District Director

California Department of Transportation

\_\_\_\_\_  
Date

Toks Omishakin

Director

California Department of Transportation

\_\_\_\_\_  
Date

Mitchell Weiss

Executive Director

California Transportation Commission


THE CITY OF LOS ANGELES  
by its Board of Harbor Commissioners

By \_\_\_\_\_  
EUGENE D. SEROKA, Executive Director

Attest: \_\_\_\_\_  
AMBER M. KLESGES, Board Secretary

APPROVED AS TO FORM AND  
LEGALITY:

\_\_\_\_\_ <sup>4/7</sup> \_\_\_\_\_, 2021  
MICHAEL N. FEUER, City Attorney  
JANNA B. SIDLEY, General Counsel

By \_\_\_\_\_   
Estelle M. Braaf, Deputy City Attorney

STATE OF CALIFORNIA · DEPARTMENT OF TRANSPORTATION  
**PROJECT PROGRAMMING REQUEST (PPR)**  
 PRG-0010 (REV 08/2020)

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Amendment (Existing Project)  YES  NO

Programs  LPP-C  LPP-F  SCCP  TCEP  STIP  Other

|             |       |            |          |                         |
|-------------|-------|------------|----------|-------------------------|
| District    | EA    | Project ID | PPNO     | Nominating Agency       |
| 07          | 31850 | 0715000304 | 0        | Port of Los Angeles     |
| County      | Route | PM Back    | PM Ahead | Co-Nominating Agency    |
| Los Angeles | 47    | 0.300      | 0.800    |                         |
|             |       |            |          | MPO                     |
|             |       |            |          | SCAG                    |
|             |       |            |          | Element                 |
|             |       |            |          | Local Assistance        |
|             |       |            |          | Email Address           |
|             |       |            |          | kcarlwright@portla.org  |
|             |       |            |          | Phone                   |
|             |       |            |          | 310-732-7702            |
|             |       |            |          | Project Manager/Contact |
|             |       |            |          | Kerry Carlwright        |

**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 Agency |                              |    |                |
|---|---------------------|------------------------------|----|----------------|
| PA&ED   | Port of Los Angeles |                              |    |                |
| PS&E  | Port of Los Angeles |                              |    |                |
| Right of Way  | Port of Los Angeles |                              |    |                |
| Construction  | Port of Los Angeles |                              |    |                |
| Legislative Districts   |                     |                              |    |                |
| Assembly:   | 70                  | Senate:                      | 35 | Congressional: |
| Project Milestone   |                     |                              |    | Existing       |
| Project Study Report Approved                                       |                     |                              |    | Proposed       |
| Begin Environmental (PA&ED) Phase                                   |                     |                              |    | 04/05/2017     |
| Circulate Draft Environmental Document                              |                     | Document Type (ND/MND)/FONSI |    | 07/01/2017     |
| Draft Project Report  |                     |                              |    | 10/15/2018     |
| End Environmental Phase (PA&ED Milestone)                           |                     |                              |    | 05/08/2018     |
| Begin Design (PS&E) Phase   |                     |                              |    | 06/30/2019     |
| End Design Phase (Ready to List for Advertisement Milestone)        |                     |                              |    | 12/10/2018     |
| Begin Right of Way Phase  |                     |                              |    | 05/31/2022     |
| End Right of Way Phase (Right of Way Certification Milestone)       |                     |                              |    | 10/01/2021     |
| Begin Construction Phase (Contract Award Milestone)                 |                     |                              |    | 12/31/2021     |
| End Construction Phase (Construction Contract Acceptance Milestone) |                     |                              |    | 12/01/2022     |
| Begin Closeout Phase  |                     |                              |    | 11/30/2025     |
| End Closeout Phase (Closeout Report)                                |                     |                              |    | 12/01/2025     |
|   |                     |                              |    | 05/31/2026     |

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**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 <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO                            | Roadway Class 1   | Reversible Lane Analysis <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| Inc. Sustainable Communities Strategy Goals <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | Reduce Greenhouse Gas Emissions <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |  |

**Project Outputs**

| Category                | Outputs                            | Unit | Total |
|-------------------------|------------------------------------|------|-------|
| Other                   | Port Improvements                  | EA   | 1     |
| Operational Improvement | Interchange modifications          | EA   | 1     |
| Operational Improvement | Intersection / Signal Improvements | EA   | 1     |

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**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 \$139,029,811; benefit-cost ratio = 3.8
- 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)

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| Performance Indicators and Measures |                                    |   |                 |        |                 |        |
|-------------------------------------|------------------------------------|---|-----------------|--------|-----------------|--------|
| Measure                             | Required For                       | Indicator/Measure   | 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 Accommodated                        | # of Trailers   | 0      | 0               | 0      |
|                                     |                                    |   | # of Containers | 0      | 0               | 0      |
|                                     | TCEP                               | Change in Cargo Volume That Can Be Accommodated                       | # of Tons       | 0      | 0               | 0      |
| # 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 & GHG                   | LPPF, LPPC, SCCP, TCEP             | Particulate Matter  | PM 2.5 Tons     | 0      | 0               | 0      |
|                                     |                                    |   | PM 10 Tons      | 0      | 0               | 0      |
|                                     | LPPF, LPPC, SCCP, TCEP             | Carbon Dioxide (CO <sub>2</sub> )                                     | Tons            | -5,927 | 0               | -5,927 |
|                                     | LPPF, LPPC, SCCP, TCEP             | Volatile Organic Compounds (VOC)                                      | Tons            | -1     | 0               | -1     |
|                                     | LPPF, LPPC, SCCP, TCEP             | Sulphur Dioxides (SO <sub>x</sub> )                                   | Tons            | 0      | 0               | 0      |
|                                     | LPPF, LPPC, SCCP, TCEP             | Carbon Monoxide (CO)  | Tons            | -15    | 0               | -15    |
| LPPF, LPPC, SCCP, TCEP              | Nitrogen Oxides (NO <sub>x</sub> ) | 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           | 3.9    | 0               | 3.9    |

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|  |        |       |       |            |      |
|--|--------|-------|-------|------------|------|
| District   | County | Route | EA    | Project ID | PPNO |
| 07   |        |       | 31850 | 0715000304 | 0    |
| Project Title  |        |       |       |            |      |
| State Route 47-Vincent Thomas Bridge and Harbor Boulevard-Front Street Interchange Improvement Project |        |       |       |            |      |

| Component                              | Prior | Existing Total Project Cost (\$1,000s) |        |        |        |       |        | Total  | Implementing Agency |
|--|-------|--|--------|--------|--------|-------|--------|--------|---------------------|
|  |       | 20-21                                  | 21-22  | 22-23  | 23-24  | 24-25 | 25-26+ |        |                     |
| 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                                  |       |  |        |        |        |       |        |        |                     |
| Proposed Total Project Cost (\$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                                    |       |  | 5,791  | 28,906 | 18,272 | 1,230 | 17     | 54,216 |                     |
| TOTAL                                  | 4,525 | 1,788                                  | 10,512 | 30,633 | 21,795 | 1,230 | 17     | 70,500 |                     |

| Fund #1:                    | Local Funds - Port Funds (Committed) |                             |       |       |       |       |        |       | Program Code        |
|-----------------------------|--------------------------------------|-----------------------------|-------|-------|-------|-------|--------|-------|---------------------|
| Component                   | Prior                                | Existing Funding (\$1,000s) |       |       |       |       |        | Total | Funding Agency      |
|                             |                                      | 20-21                       | 21-22 | 22-23 | 23-24 | 24-25 | 25-26+ |       |                     |
| E&P (PA&ED)                 |                                      |                             |       |       |       |       |        |       | Port of Los Angeles |
| PS&E                        |                                      |                             |       |       |       |       |        |       |                     |
| R/W SUP (CT)                |                                      |                             |       |       |       |       |        |       |                     |
| CON SUP (CT)                |                                      |                             |       |       |       |       |        |       |                     |
| R/W                         |                                      |                             |       |       |       |       |        |       |                     |
| CON                         |                                      |                             |       |       |       |       |        |       |                     |
| TOTAL                       |                                      |                             |       |       |       |       |        |       |                     |
| Proposed Funding (\$1,000s) |                                      |                             |       |       |       |       |        |       | Notes               |
| E&P (PA&ED)                 | 75                                   |                             |       |       |       |       |        | 75    |                     |
| PS&E                        | 160                                  | 1,788                       | 3,512 |       |       |       |        | 5,460 |                     |
| R/W SUP (CT)                |                                      |                             |       |       |       |       |        |       |                     |
| CON SUP (CT)                |                                      |                             |       |       |       |       |        |       |                     |
| R/W                         |                                      |                             |       |       |       |       |        |       |                     |
| CON                         |                                      |                             |       |       |       |       | 17     | 17    |                     |
| TOTAL                       | 235                                  | 1,788                       | 3,512 |       |       |       | 17     | 5,552 |                     |

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| Fund #2      | Local Funds - Measure R (Committed)                                 |                             |       |        |        |       |        |        | Program Code                        |
|--------------|---|-----------------------------|-------|--------|--------|-------|--------|--------|-------------------------------------|
| Component    | Prior   | Existing Funding (\$1,000s) |       |        |        |       |        | Total  | Funding Agency                      |
|              |   | 20-21                       | 21-22 | 22-23  | 23-24  | 24-25 | 25-26+ |        |                                     |
| E&P (PA&ED)  |   |                             |       |        |        |       |        |        | Los Angeles County Metropolitan Tra |
| PS&E         |   |                             |       |        |        |       |        |        |                                     |
| R/W SUP (CT) |   |                             |       |        |        |       |        |        |                                     |
| CON SUP (CT) |   |                             |       |        |        |       |        |        |                                     |
| R/W          |   |                             |       |        |        |       |        |        |                                     |
| CON          |   |                             |       |        |        |       |        |        |                                     |
| TOTAL        |   |                             |       |        |        |       |        |        |                                     |
|              |   | Proposed Funding (\$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 Disc. - Port Infrastructure Development Program (Committed) |                             |       |        |        |       |        |        | Program Code                        |
| Component    | Prior   | Existing Funding (\$1,000s) |       |        |        |       |        | Total  | Funding Agency                      |
|              |   | 20-21                       | 21-22 | 22-23  | 23-24  | 24-25 | 25-26+ |        |                                     |
| 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  |                                     |
|              |   | Proposed Funding (\$1,000s) |       |        |        |       |        |        | Notes                               |



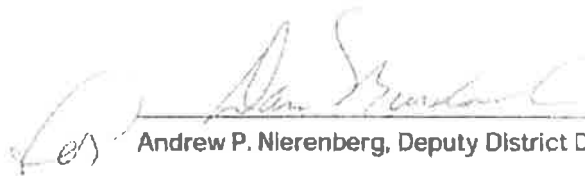
07 - LA - 047, PM 0.3 / 0.8  
EA 07-31850 -- 0715000304-50B8  
June 2019

# Project Report

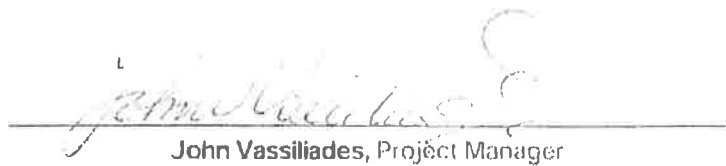
## For Project Approval

On Route SR-47  
Between Pacific Avenue Undercrossing  
And Vincent Thomas Bridge


I have reviewed the right-of-way information contained in this report and the Right-of-way data sheet attached hereto, completed by the Port of Los Angeles (POLA) and its consultant and find the data to be complete to form and procedures:

  
Andrew P. Nierenberg, Deputy District Director, Right of Way

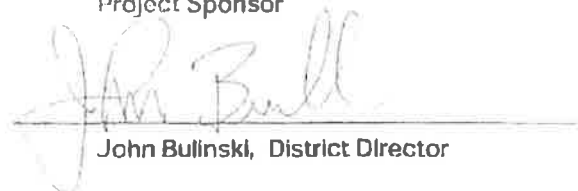
APPROVAL RECOMMENDED:

  
John Vassiliades, Project Manager

PROJECT APPROVED:

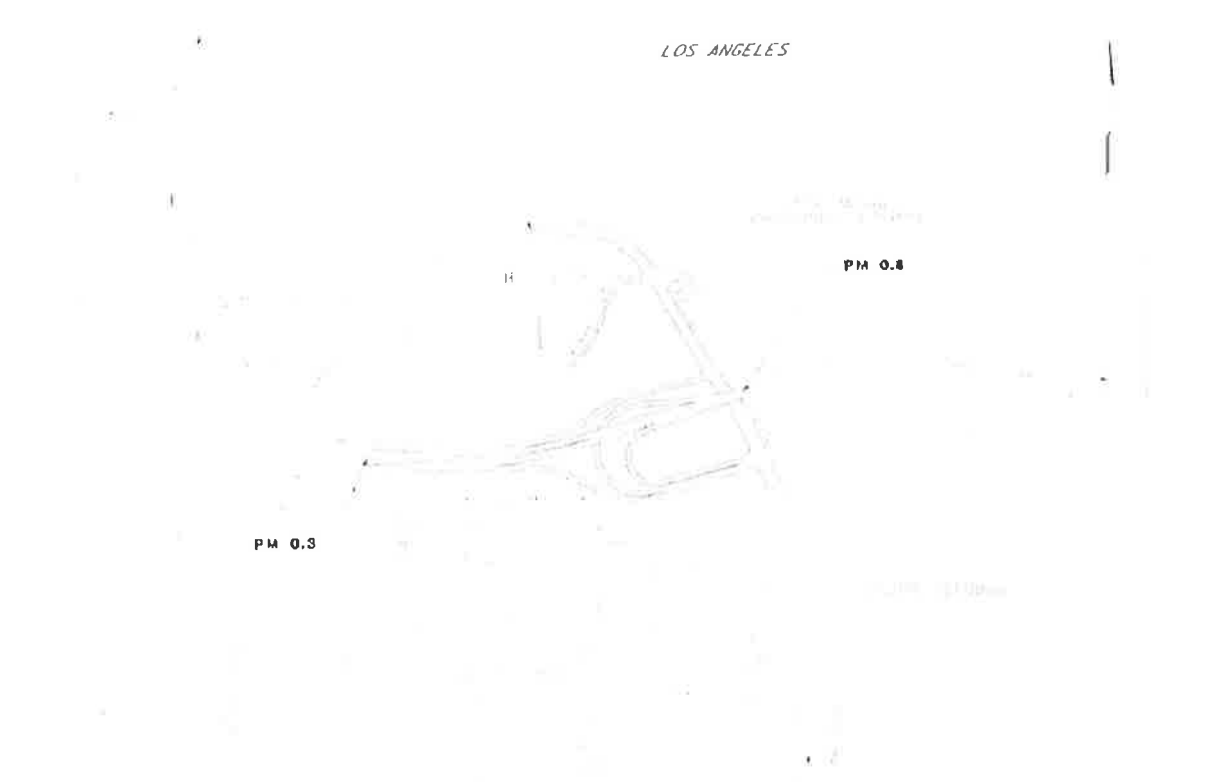
  
David M. Walsh, PE, Port of Los Angeles  
Project Sponsor

6-10-19  
Date

  
John Bulinski, District Director

6/21/19  
Date

# Vicinity Map



07-LA-047-0.3/0.8

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.



6-3-19

Brad Slawson  
Registered Civil Engineer

Date



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07-LA-047-0.3/0.8

## 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.

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

#### 4B. Regional and System Planning

##### 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.

07 - LA - 047 - 0.3 / 0.8

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

| Freeway/Ramp Segments                        | AM Peak 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 Peak 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 Eastbound | 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 Peak 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 on-ramp 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

| Location  | Collision Rate <sup>1</sup> |      |       |                   |      |       |       |
|---|-----------------------------|------|-------|-------------------|------|-------|-------|
|   | Actual                      |      |       | Statewide Average |      |       | MVM   |
|   | F                           | F+I  | Total | F                 | F+I  | Total |       |
| SR 47 Mainline Northbound/Eastbound<br>(PM R000.000-R000.348) | 0.000                       | 0.06 | 0.50  | 0.01              | 0.33 | 0.87  | 15.96 |
| SR 47 Mainline Northbound/Eastbound<br>(PM R000.349-000.787)  | 0.000                       | 0.95 | 3.07  | 0.005             | 0.24 | 0.71  | 4.23  |
| SR 47 Mainline Northbound/Eastbound<br>(PM 000.788-000.857)   | 0.000                       | 0.50 | 3.48  | 0.005             | 0.26 | 0.76  | 2.01  |
| SR 47 Mainline Southbound/Westbound<br>(PM 000.819-000.857)   | 0.000                       | 0.00 | 1.79  | 0.005             | 0.26 | 0.76  | 1.12  |
| SR 47 Mainline Southbound/Westbound<br>(PM R000.377-000.818)  | 0.000                       | 0.46 | 1.62  | 0.005             | 0.26 | 0.76  | 4.31  |
| SR 47 Mainline Southbound/Westbound<br>(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<br>to Harbor Boulevard    | 0.000                       | 0.11 | 0.32  | 0.003             | 0.12 | 0.37  | 9.5   |
| SR 47 Northbound/Eastbound On-Ramp<br>from Harbor Boulevard   | 0.000                       | 0.35 | 0.53  | 0.001             | 0.23 | 0.67  | 5.67  |
| SR 47 Southbound/Westbound Off-Ramp<br>to Harbor Boulevard    | 0.000                       | 0.00 | 0.23  | 0.003             | 0.15 | 0.45  | 8.78  |
| SR 47 Southbound/Westbound On-Ramp<br>from Harbor Boulevard   | 0.000                       | 0.00 | 0.51  | 0.002             | 0.21 | 0.60  | 5.88  |

## Notes:

<sup>1</sup> For mainline 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.

F = Fatal; I = Injury; F+I = Fatal + Injury

Source: Caltrans TASAS, Table B Collision Data Reviewed: 01/01/2015 to 12/31/2017

Table 4-5: Collision Types

| Location                                       | Head-On | Sideswipe | Rear-End | Broadside | Hit Object | Overturn | Other | Total |
|--|---------|-----------|----------|-----------|------------|----------|-------|-------|
| <b>Freeway Data</b>                            |         |           |          |           |            |          |       |       |
| SR 47 NB/EB Mainline<br>(PM R000.000-R000.348) |         | 50%       | 13%      |           | 25%        |          | 13%   | 8     |
| SR 47 NB/EB Mainline<br>(PM R000.349-000.787)  |         | 46%       | 38%      | 8%        | 8%         |          |       | 13    |
| SR 47 NB/EB Mainline<br>(PM 000.788-000.857)   | 14%     | 29%       | 29%      |           | 28%        |          |       | 7     |
| SR 47 SB/WB Mainline<br>(PM 000.819-000.857)   |         | 50%       |          |           | 50%        |          |       | 2     |
| SR 47 SB/WB Mainline<br>(PM R000.377-000.818)  |         | 43%       | 43%      |           | 14%        |          |       | 7     |
| SR 47 SB/WB Mainline<br>(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     |
| <b>Intersection Data</b>                       |         |           |          |           |            |          |       |       |
| 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 TA5A5; 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

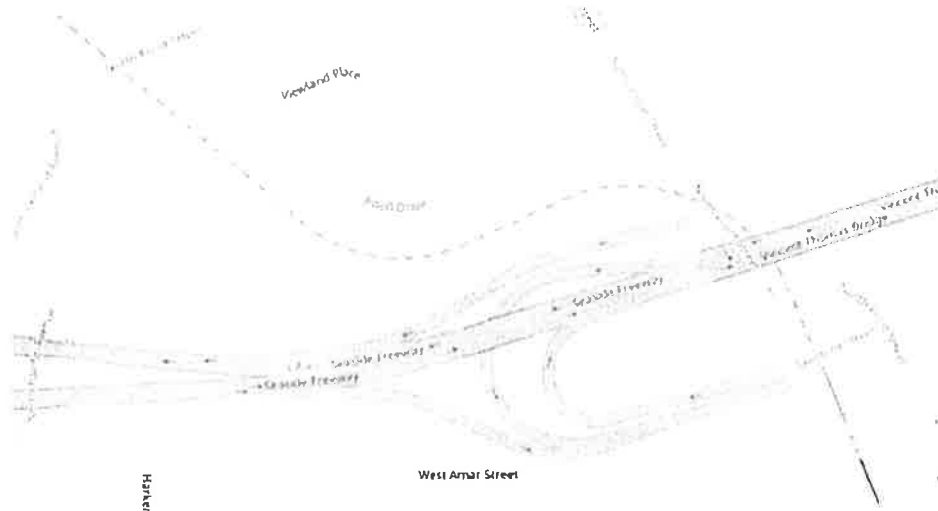
The project proposes to reconfigure the existing interchange at State Route 47 and Harbor Boulevard/Front Street. The proposed improvements in the Build Alternative will eliminate a historically problematic weave at the shared off-ramp terminus by creating a new, separate terminus for the westbound ramps.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

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                             | AM Peak      |            | PM Peak      |            |
|--|--------------|------------|--------------|------------|
|  | Delay        | LOS        | Delay        | LOS        |
| <b>Base Year (2015)</b>                        |              |            |              |            |
| Front St & Knoll Dr/WBCT Gate 2                | 3.4          | A          | 11.5         | B          |
| Harbor Blvd/Front St & SR 47 Ramps/Swinford St | 31.3         | C          | 28.7         | C          |
| <b>Opening Year (2023) – No-Build</b>          | <b>Delay</b> | <b>LOS</b> | <b>Delay</b> | <b>LOS</b> |
| Front St & Knoll Dr/WBCT Gate 2                | 8.2          | A          | 9.1          | A          |
| Harbor Blvd/Front St & SR 47 Ramps/Swinford St | 39.0         | D          | 37.2         | D          |
| <b>Design Year (2045) – No-Build</b>           | <b>Delay</b> | <b>LOS</b> | <b>Delay</b> | <b>LOS</b> |
| Front St & Knoll Dr/WBCT Gate 2                | 11.5         | B          | 7.8          | A          |
| 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      |            |
|---|--------------|------------|--------------|------------|
|   | Delay        | LOS        | Delay        | LOS        |
| <b>Base Year (2015)</b>                         |              |            |              |            |
| Front St & Knoll Dr/Container Terminal Gate 2   | 3.4          | A          | 11.5         | B          |
| Harbor Blvd/Front St & SR 47 Ramps/Swinford St  | 31.3         | C          | 28.7         | C          |
| <b>Opening Year (2023) – No-build</b>           | <b>Delay</b> | <b>LOS</b> | <b>Delay</b> | <b>LOS</b> |
| Front St & Knoll Dr/Container Terminal Gate 2   | 8.2          | A          | 9.1          | A          |
| Harbor Blvd/Front St & SR 47 Ramps/Swinford St  | 39.0         | D          | 37.2         | D          |
| <b>Opening Year (2023) – Build</b>              | <b>Delay</b> | <b>LOS</b> | <b>Delay</b> | <b>LOS</b> |
| Front St & SR 47 WB Ramps/Container Terminal G2 | 27.3         | C          | 28.7         | C          |
| Harbor Blvd/Front St & SR 47 Ramps/Swinford St  | 33.1         | C          | 35.0         | D          |
| <b>Design Year (2045) – No-Build</b>            | <b>Delay</b> | <b>LOS</b> | <b>Delay</b> | <b>LOS</b> |
| Front St & Knoll Dr/Container Terminal Gate 2   | 11.5         | B          | 7.8          | A          |
| Harbor Blvd/Front St & SR 47 Ramps/Swinford St  | 239.3        | F          | 103.6        | F          |
| <b>Design Year (2045) – Build</b>               | <b>Delay</b> | <b>LOS</b> | <b>Delay</b> | <b>LOS</b> |
| 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**

| HDM Index                   | Topic                              | Number of Exceptions |
|-----------------------------|------------------------------------|----------------------|
| <b>Bold Standards</b>       |                                    |                      |
| 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                    |
| <b>Underlined Standards</b> |                                    |                      |
| 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.

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

#### 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

- o 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 be 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          | Fiscal Year Estimate              |       |       |       |        |       |       |        | Total  |
|----------------------|-----------------------------------|-------|-------|-------|--------|-------|-------|--------|--------|
|                      | Prior                             | 15/16 | 16/17 | 17/18 | 18/19  | 19/20 | 20/21 | Future |        |
| Component            | In thousands of dollars (\$1,000) |       |       |       |        |       |       |        |        |
| PA&ED Support        |                                   |       | 112   | 588   | 300    |       |       |        | 1,000  |
| PS&E Support         |                                   |       |       |       | 600    | 1,500 | 1,200 |        | 3,300  |
| Right-of-Way Support |                                   |       |       |       | 500    |       |       |        | 500    |
| Construction Support |                                   |       |       |       |        |       |       | 4,700  | 4,700  |
| Right-of-Way         |                                   |       |       |       | 9,800  |       |       |        | 9,800  |
| Construction         |                                   |       |       |       |        |       |       | 23,700 | 23,700 |
| <b>Total</b>         |                                   |       | 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<br>(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 Toossi       | 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)

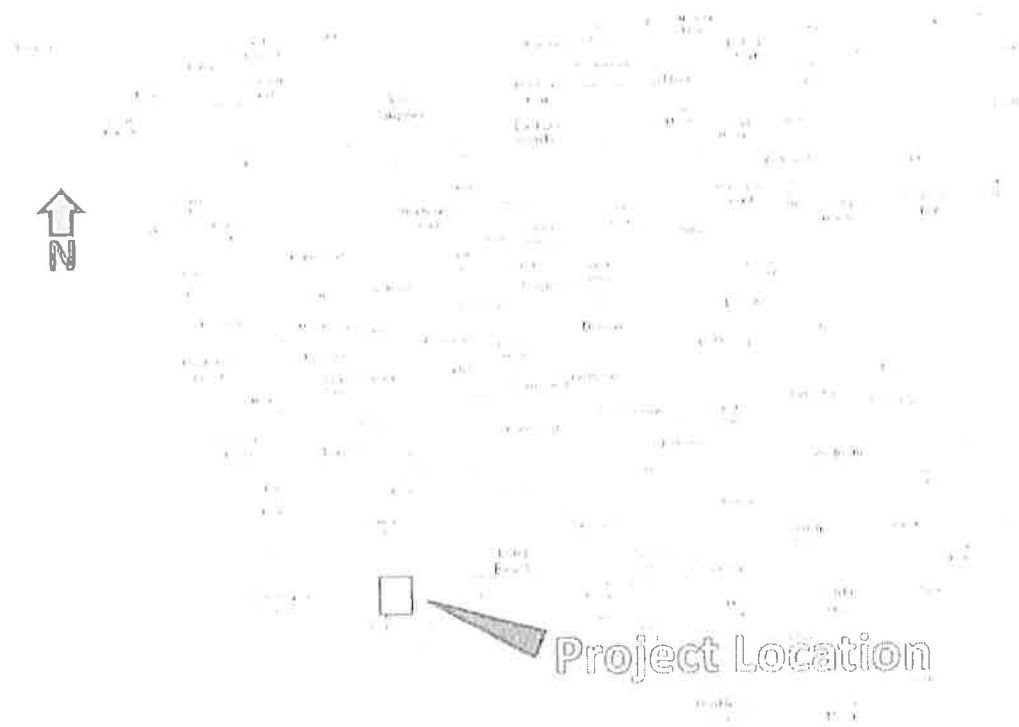
| Attachment | Description   |
|------------|---|
| A          | Location Map (1)  |
| B          | Build Alternative Layout (1)                                  |
| C          | Preliminary Layouts, Profiles, and Typical Cross-sections (3) |
| D          | Existing Utility Map (2)                                      |
| E          | Right of Way Exhibit (1)                                      |
| F          | Right of Way Data Sheet (5)                                   |
| G          | Project Cost Estimate (10)                                    |
| H          | Negative Declaration (2)                                      |
| I          | Transportation Management Plan (TMP) Data Sheet (3)           |
| J          | TASAS Table B (10)  |
| K          | Storm Water Data Report (Cover Sheet) (1)                     |
| L          | Hazardous Waste Assessment Letter (13)                        |
| M          | Project Schedule (3)  |
| N          | Risk Register (3)   |
| O          | 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<br>Preliminary Sound Wall Locations and Limits<br>Sound Wall Recommendations |
| Initial Site Assessment                                 | Hazardous Waste investigation  |

**Attachment A**

**Location Map**

## Project Location Map



**Attachment B**  
**Build Alternative Layout**



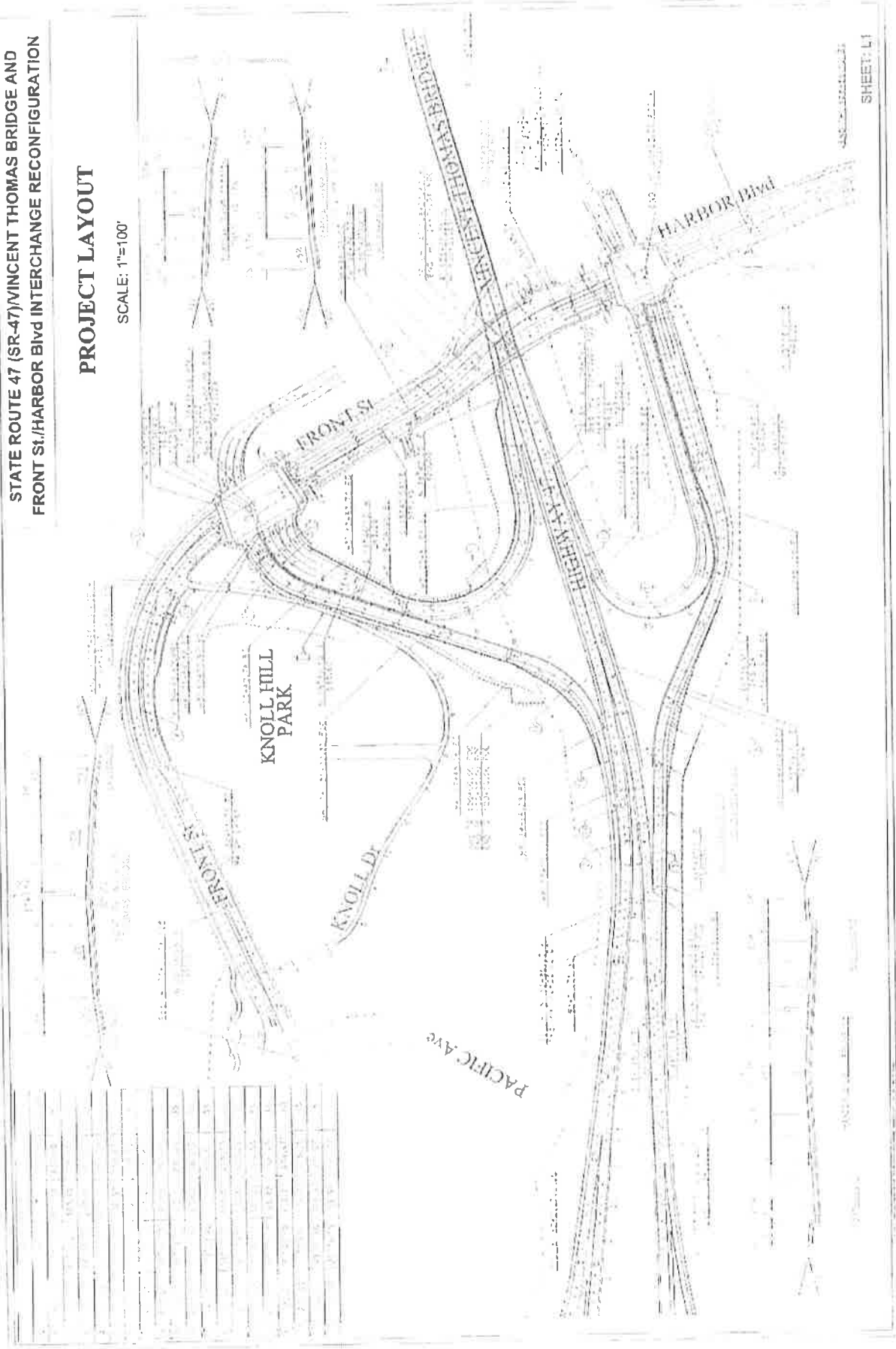
**Attachment C**

**Preliminary Layouts, Profiles, and Typical Cross-sections**

STATE ROUTE 47 (SR-47)/VINCENT THOMAS BRIDGE AND  
FRONT ST./HARBOR Blvd INTERCHANGE RECONFIGURATION

PROJECT LAYOUT

SCALE: 1"=100'

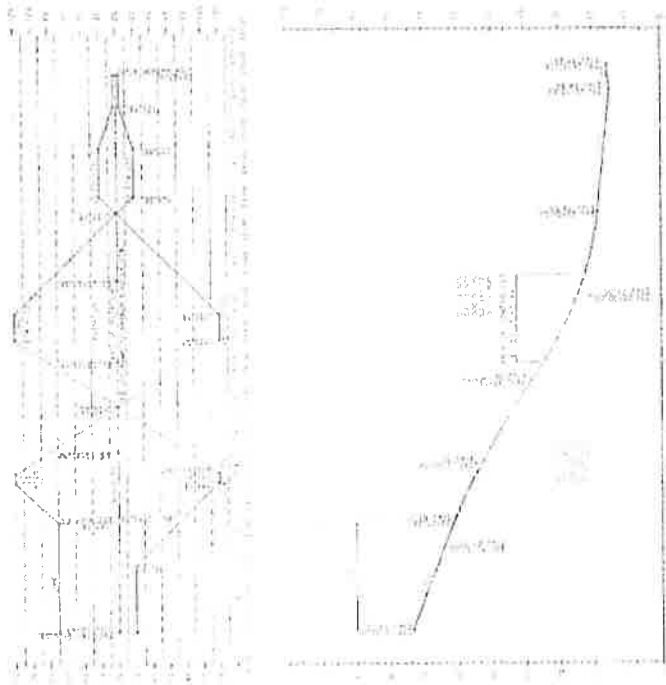


SHEET: L1

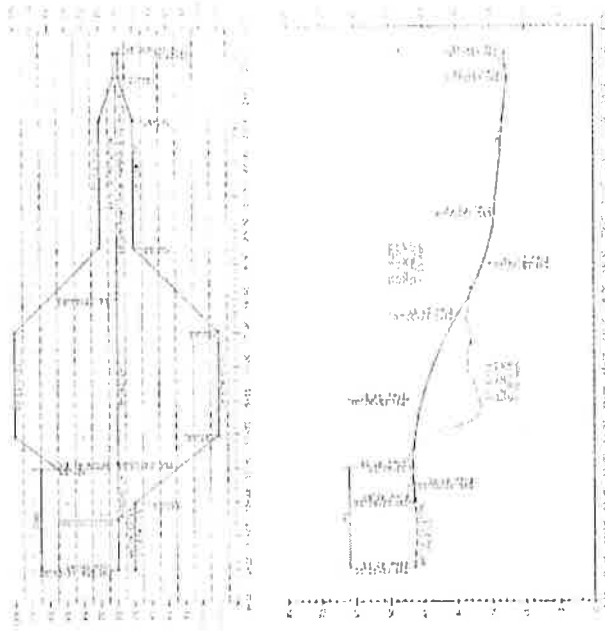
STATE ROUTE 47 (SR-47)/VINCENT THOMAS BRIDGE AND  
FRONT ST./HARBOR Blvd INTERCHANGE RECONFIGURATION

PROFILES  
EASTBOUND RAMPS

SCALE: Vert. 1"=10'  
Horiz. 1"=100'



"H1" EB OFF-RAMP

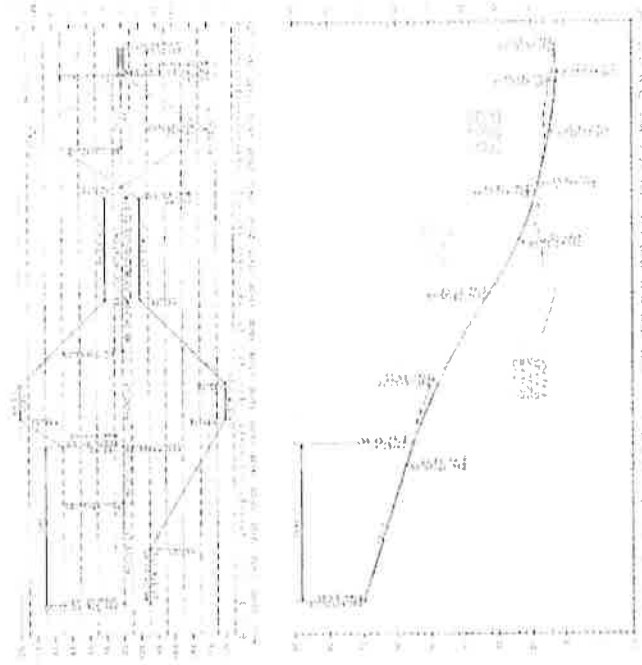


"H2" EB ON-RAMP

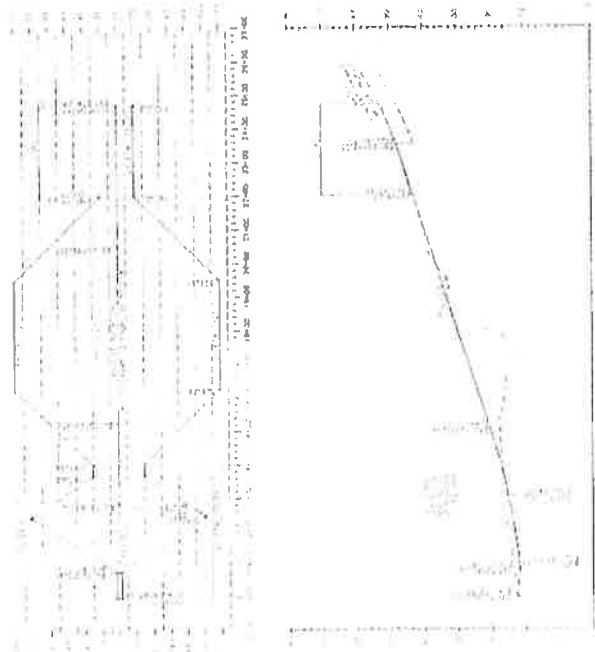
STATE ROUTE 47 (SR-47)/VINCENT THOMAS BRIDGE AND  
FRONT St./HARBOR Blvd INTERCHANGE RECONFIGURATION

**PROFILES**  
**WEST BOUND RAMP**

SCALE: Vert. 1"=10'  
Hortz. 1"=100'



**"H4" WB ON-RAMP**



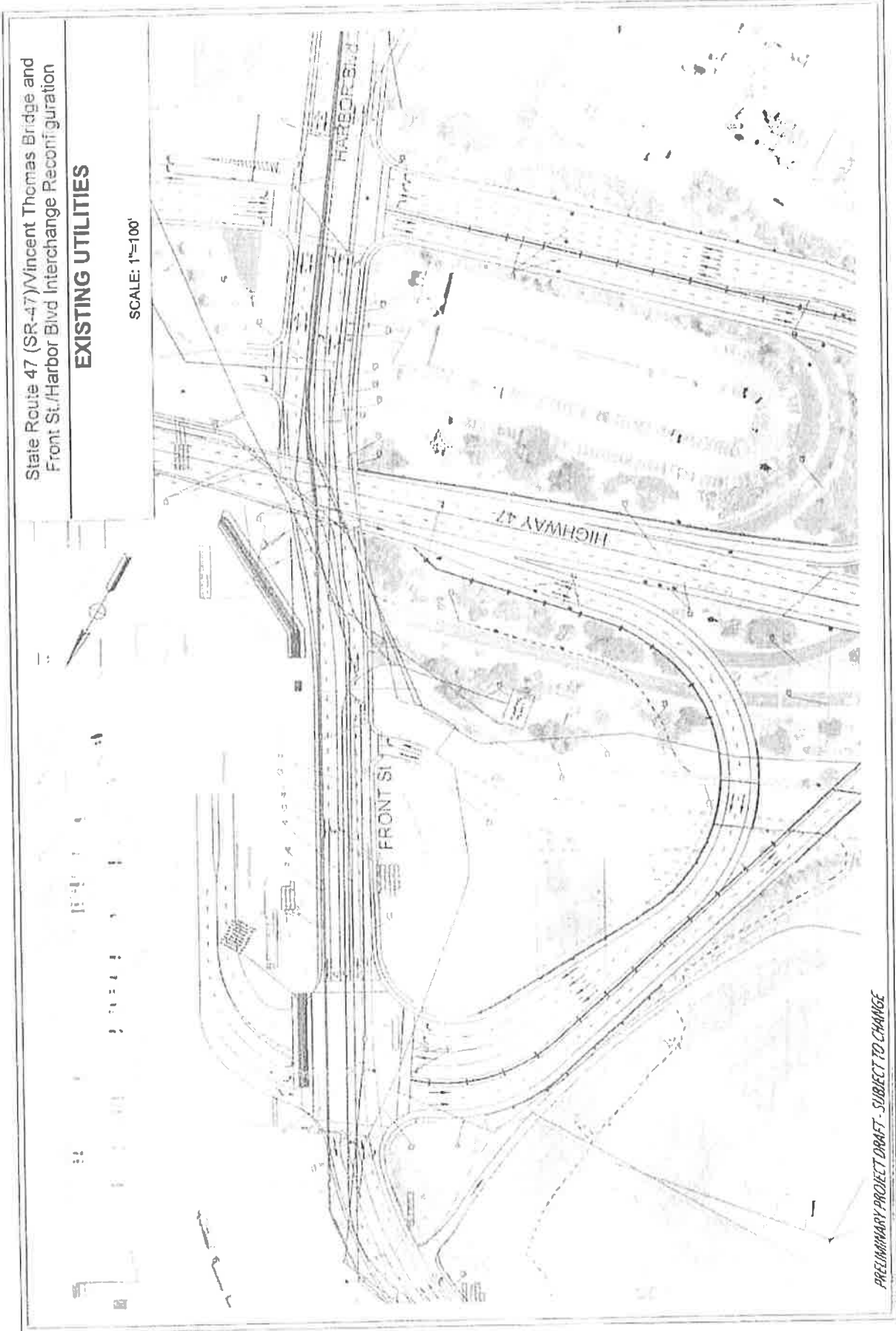
**"H3" WB OFF-RAMP**

**Attachment D**  
**Existing Utility Map**

State Route 47 (SR-47)/Vincent Thomas Bridge and  
Front St./Harbor Blvd Interchange Reconfiguration

**EXISTING UTILITIES**

SCALE: 1"=100'



PRELIMINARY PROJECT DRAFT - SUBJECT TO CHANGE



**Attachment E**  
**Right-of-Way Exhibit**

**STATE ROUTE 47 (SR-47)/VINCENT THOMAS BRIDGE AND FRONT ST./HARBOR BVD INTERCHANGE RECONFIGURATION**

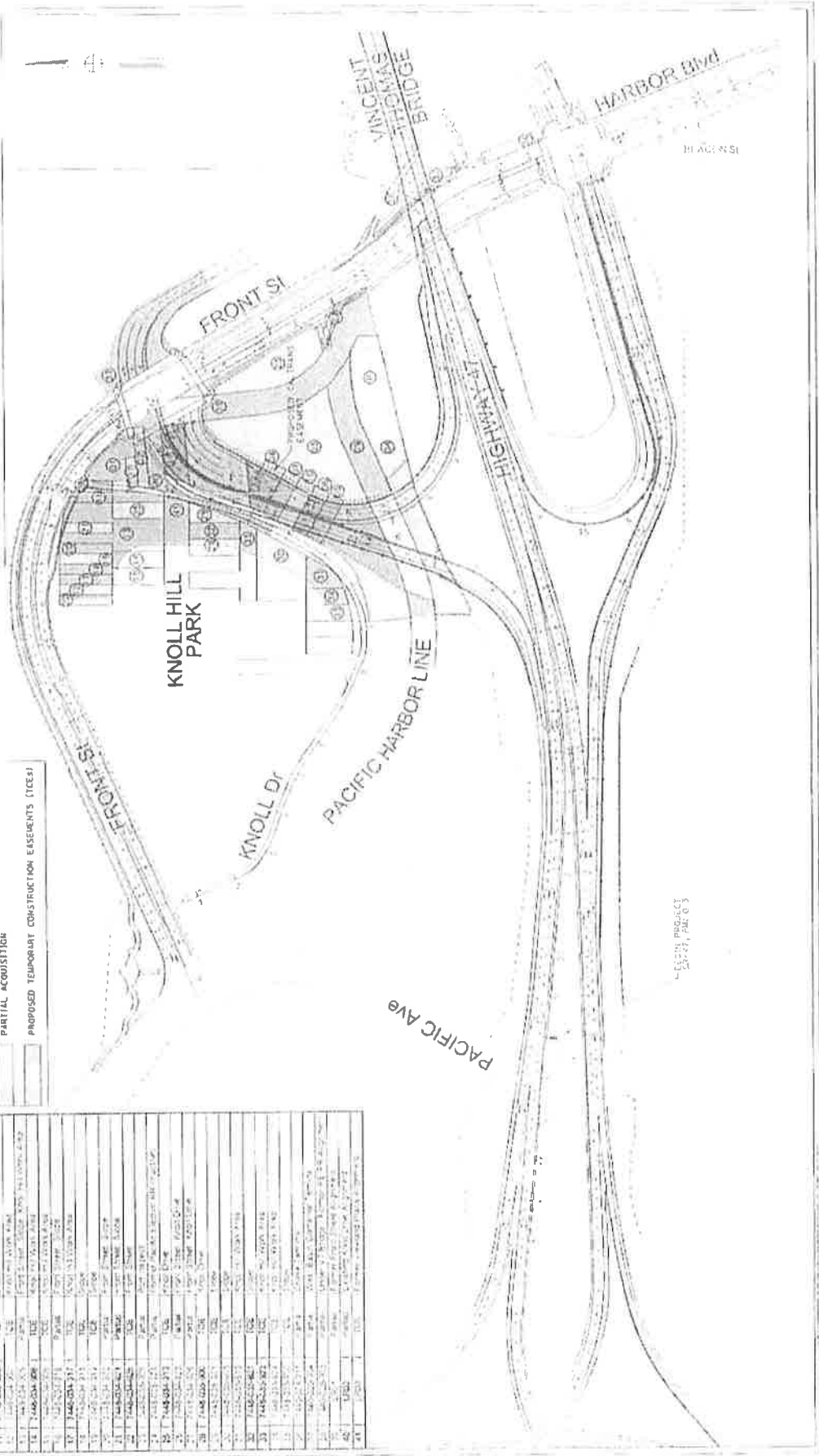
**PAVED ROW EXHIBIT**

SCALE: 1"=100'

**LEGEND:**

|  |  |
|--|--|
|  | EXISTING RIGHT OF WAY                            |
|  | PROPOSED RIGHT OF WAY                            |
|  | PROPOSED CALTRANS ACCESS CONTROL                 |
|  | PROPOSED TEMPORARY CONSTRUCTION EASEMENTS (TCE)  |
|  | FULL ACQUISITION                                 |
|  | PARTIAL ACQUISITION                              |
|  | PROPOSED TEMPORARY CONSTRUCTION EASEMENTS (TCEs) |

| APN | ACQUISITION        | COMMITMENT         | DATE     | REMARKS               |
|-----|--------------------|--------------------|----------|-----------------------|
| 1   | 144000000000000000 | 144000000000000000 | 1/1/2000 | EXISTING RIGHT OF WAY |
| 2   | 144000000000000000 | 144000000000000000 | 1/1/2000 | EXISTING RIGHT OF WAY |
| 3   | 144000000000000000 | 144000000000000000 | 1/1/2000 | EXISTING RIGHT OF WAY |
| 4   | 144000000000000000 | 144000000000000000 | 1/1/2000 | EXISTING RIGHT OF WAY |
| 5   | 144000000000000000 | 144000000000000000 | 1/1/2000 | EXISTING RIGHT OF WAY |
| 6   | 144000000000000000 | 144000000000000000 | 1/1/2000 | EXISTING RIGHT OF WAY |
| 7   | 144000000000000000 | 144000000000000000 | 1/1/2000 | EXISTING RIGHT OF WAY |
| 8   | 144000000000000000 | 144000000000000000 | 1/1/2000 | EXISTING RIGHT OF WAY |
| 9   | 144000000000000000 | 144000000000000000 | 1/1/2000 | EXISTING RIGHT OF WAY |
| 10  | 144000000000000000 | 144000000000000000 | 1/1/2000 | EXISTING RIGHT OF WAY |
| 11  | 144000000000000000 | 144000000000000000 | 1/1/2000 | EXISTING RIGHT OF WAY |
| 12  | 144000000000000000 | 144000000000000000 | 1/1/2000 | EXISTING RIGHT OF WAY |
| 13  | 144000000000000000 | 144000000000000000 | 1/1/2000 | EXISTING RIGHT OF WAY |
| 14  | 144000000000000000 | 144000000000000000 | 1/1/2000 | EXISTING RIGHT OF WAY |
| 15  | 144000000000000000 | 144000000000000000 | 1/1/2000 | EXISTING RIGHT OF WAY |
| 16  | 144000000000000000 | 144000000000000000 | 1/1/2000 | EXISTING RIGHT OF WAY |
| 17  | 144000000000000000 | 144000000000000000 | 1/1/2000 | EXISTING RIGHT OF WAY |
| 18  | 144000000000000000 | 144000000000000000 | 1/1/2000 | EXISTING RIGHT OF WAY |
| 19  | 144000000000000000 | 144000000000000000 | 1/1/2000 | EXISTING RIGHT OF WAY |
| 20  | 144000000000000000 | 144000000000000000 | 1/1/2000 | EXISTING RIGHT OF WAY |
| 21  | 144000000000000000 | 144000000000000000 | 1/1/2000 | EXISTING RIGHT OF WAY |
| 22  | 144000000000000000 | 144000000000000000 | 1/1/2000 | EXISTING RIGHT OF WAY |
| 23  | 144000000000000000 | 144000000000000000 | 1/1/2000 | EXISTING RIGHT OF WAY |
| 24  | 144000000000000000 | 144000000000000000 | 1/1/2000 | EXISTING RIGHT OF WAY |
| 25  | 144000000000000000 | 144000000000000000 | 1/1/2000 | EXISTING RIGHT OF WAY |
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| 28  | 144000000000000000 | 144000000000000000 | 1/1/2000 | EXISTING RIGHT OF WAY |
| 29  | 144000000000000000 | 144000000000000000 | 1/1/2000 | EXISTING RIGHT OF WAY |
| 30  | 144000000000000000 | 144000000000000000 | 1/1/2000 | EXISTING RIGHT OF WAY |
| 31  | 144000000000000000 | 144000000000000000 | 1/1/2000 | EXISTING RIGHT OF WAY |
| 32  | 144000000000000000 | 144000000000000000 | 1/1/2000 | EXISTING RIGHT OF WAY |
| 33  | 144000000000000000 | 144000000000000000 | 1/1/2000 | EXISTING RIGHT OF WAY |
| 34  | 144000000000000000 | 144000000000000000 | 1/1/2000 | EXISTING RIGHT OF WAY |
| 35  | 144000000000000000 | 144000000000000000 | 1/1/2000 | EXISTING RIGHT OF WAY |
| 36  | 144000000000000000 | 144000000000000000 | 1/1/2000 | EXISTING RIGHT OF WAY |
| 37  | 144000000000000000 | 144000000000000000 | 1/1/2000 | EXISTING RIGHT OF WAY |
| 38  | 144000000000000000 | 144000000000000000 | 1/1/2000 | EXISTING RIGHT OF WAY |
| 39  | 144000000000000000 | 144000000000000000 | 1/1/2000 | EXISTING RIGHT OF WAY |
| 40  | 144000000000000000 | 144000000000000000 | 1/1/2000 | EXISTING RIGHT OF WAY |
| 41  | 144000000000000000 | 144000000000000000 | 1/1/2000 | EXISTING RIGHT OF WAY |



ESTD PROJECT 2007, PAR C 5

**Attachment F**  
**Right of Way Data Sheet**

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION  
**RIGHT OF WAY DATA SHEET FOR LOCAL PUBLIC AGENCIES**  
 (Form #)

EXHIBIT  
 17-EX-21 (NEW 12/2007)  
 Page 1 of 5

To: District Division Chief  
 Division of Right of Way and Land Surveys

Date: 05/30/19

Attention: District Branch Chief  
 R/W Local Programs

Co. LA Rte. 47  
 Expense Authorization \$18500

Subject: **RIGHT OF WAY DATA SHEET - LOCAL PUBLIC AGENCIES**

**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 AECOM (Consultant).

**I. Right of Way Engineering**

Will Right of Way Engineering be required for this project?

- No
- Yes   X

- Hard copy (base map)   X
- Appraisal map   X
- Acquisition Documents
- Property Transfer Documents   X
- R/W Record Map   X
- Record of Survey   X

**II. Engineering Surveys**

1. Is any surveying or photogrammetric mapping required?

No        Yes   X   (Complete the following.)

2. 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.

3. Will land survey monument perpetuation be scoped into the project, if required?

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 Sheet - Local Public Agencies  
Page 2 of 5

III. Parcel Information (Land and Improvements)

Are there any property rights required within the proposed project limits?

No  Yes  (Complete the following.)

|  | Part Take | Full Take | Estimate \$  |
|--|-----------|-----------|--------------|
| A. 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 owned properties currently vacant or containing a Port truck inspection facility, Police K-9 training facility, a public off-leash dog park, and a vacant rail right-of-way. All anticipated Permanent and Temporary Easements are within the Port of Los Angeles right-of-way. As the project sponsor, the Port has assigned no project cost to these easements.

IV. Dedications

Are there any property rights which have been acquired, or anticipate will be acquired, through the "dedication" process for the Project?

No  Yes  (Complete the following.)

Number of dedicated parcels 24

Have the dedication parcel(s) been accepted by the municipality involved? Yes, Port is the owner.

V. Excess Lands / Relinquishments

Are there Caltrans property rights which may become excess lands or potential relinquishment areas?

No  Yes  (Provide an explanation on additional page.)

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

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

R/W Data Sheet - Local Public Agencies  
Page 3 of 5

**VI. Relocation Information**

Are relocation displacements anticipated?

No X Yes \_\_\_\_\_ (Complete the following.)

|  |       |          |
|--|-------|----------|
| A. Number of Single Family Residential Units | _____ |          |
| Estimated RAP Payments                       | _____ | \$ _____ |
| B. Number of Multifamily Residential Units   | _____ |          |
| Estimated RAP Payments                       | _____ | \$ _____ |
| C. Number of Business/Nonprofit              | _____ |          |
| Estimated RAP Payments                       | _____ | \$ _____ |
| D. Number of Farms                           | _____ |          |
| Estimated RAP Payments                       | _____ | \$ _____ |
| E. Other (define in the "Remarks" section)   | _____ |          |
| Estimated RAP Payments                       | _____ | \$ _____ |
| <br>Totals                                   | _____ | \$ _____ |

**VII. Utility Relocation Information**

Do you anticipate any utility facilities or utility rights of way to be affected?

No \_\_\_\_\_ Yes X (Complete the following.)

| Facility             | Owner          | Estimated Relocation Expense |                  |                          |
|----------------------|----------------|------------------------------|------------------|--------------------------|
|                      |                | State Obligation             | Local Obligation | Utility Owner Obligation |
| A. Water Lines       | DWP            | \$                           | \$105,000**      | \$                       |
| B. Gas Lines         | So Cal Gas     | \$                           | \$11,500**       | \$                       |
| C. Storm Drains      | City DPW Water | \$                           | \$41,375**       | \$                       |
| D. Electrical Lines  | City DPW Power | \$                           | \$1,970,000**    | \$                       |
| E. Oil Lines         | US Navy Oil    | \$                           | \$15,300**       | \$                       |
| F. Misc Electric     | City DOT       | \$                           | \$8,200**        | \$                       |
| Totals               |                | \$TBD                        | \$2,151,375**    | \$TBD                    |
| Number of facilities |                |                              | 6**              |                          |

\*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.

Any additional information concerning utility involvement on this project?

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

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

R/W Data Sheet - Local Public Agencies  
Page 4 of 5

VIII. Rail Information

Are railroad facilities or railroad rights of way affected?

No \_\_\_\_\_ Yes X (Complete the following.)

Describe railroad facilities or railroad rights of way affected.

| Owner's Name           | Transverse Crossing        | Longitudinal Encroachment |
|------------------------|----------------------------|---------------------------|
| A. Port of Los Angeles | Former Pacific Harbor Line |                           |
| B.                     |                            |                           |

Discuss types of agreements and rights required from the railroads. Are grade crossings that require services contracts, or grade separations that require construction and maintenance agreements involved?

This line is no longer active. The project will remove the inactive rail alignment on Port of Los Angeles property.

IX. Clearance Information

Are there improvements that require clearance?

No \_\_\_\_\_ Yes X (Complete the following.)

A. Number of Structures to be Demolished 2  
Estimated Cost of Demolition \$ 27,500

X. Hazardous Materials/Waste

Are there any site(s) and/or improvements(s) in the Project Limits that are known to contain hazardous materials? None \_\_\_\_\_ Yes X (Explain in the "Remarks" section.)

Are there any site(s) and/or improvement(s) in the Project Limits that are suspected to contain hazardous waste? None \_\_\_\_\_ Yes X (Explain in the "Remarks" section.)

XI. Project Scheduling

|                                    | Proposed lead time | Completion date |
|------------------------------------|--------------------|-----------------|
| * Preliminary Engineering, Surveys | <u>5</u> (months)  | TBD             |
| * R/W Engineering Submittals       | <u>4</u> (months)  | TBD             |
| * R/W Appraisals/Acquisition       | <u>7</u> (months)  | TBD             |
| Proposed Environmental Clearance   |                    | TBD             |
| Proposed R/W Certification         |                    | <u>5/31/20</u>  |

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

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

R/W Data Sheet - Local Public Agencies  
Page 5 of 5

**XII. Proposed Funding**

|                               | Local       | State | Federal | Other |
|-------------------------------|-------------|-------|---------|-------|
| Acquisition                   | \$7,200,064 |       |         |       |
| Utilities                     | \$2,151,375 |       |         |       |
| Relocation Assistance Program | \$0         |       |         |       |
| R/W Support                   | \$500,000   |       |         |       |
| Cost (Eng. Appraisals, etc.)  | \$0         |       |         |       |

**XIII. Remarks**

The Port of Los Angeles property east of Front Street, containing the West Basin Container Terminal, has been found to contain petroleum hydrocarbons in the soil and groundwater beneath an abandoned pipeline corridor. This location is currently being remediated. The Port of Los Angeles property east of Harbor Boulevard is suspected to contain petroleum hydrocarbons. The former Pacific Harbor Line property, which will be crossed by the westbound ramp alignments, is suspected to contain hazardous materials associated with industrial rail use.

Project Sponsor Consultant  
Prepared by:

Brad Slawson

Brad Slawson (AECOM)

\_\_\_\_\_

6.6.19  
Date

Project Sponsor  
Reviewed and Approved by:

Sarah Aziz

Sarah Aziz (POLA)

\_\_\_\_\_

6/6/19  
Date

Caltrans  
Reviewed and approved as to Form and Procedures based on information provided to date:

[Signature]  
Caltrans District Branch Chief  
Local Programs  
Division of Right of Way

6/6/19  
Date

**Attachment G**  
**Project Cost Estimate**



**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        | \$ 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         |
| <b>TOTAL ROADWAY ITEMS</b> |                             | <b>\$ 21,997,400</b> |

Estimate Prepared By :


5-30-19
714-567-2744

Robert Martinez, Roadway Engineer
 Date
Phone

Estimate Reviewed By :


5-30-19
714-567-2731

Brad Slawson, Project Engineer
 Date
Phone

PROJECT

EA. 07-318500 PID: 71500304

SECTION 1: EARTHWORK

| Item code  | Unit | Quantity | Unit Price (\$) | Cost      |
|--|------|----------|-----------------|-----------|
| 190101 Roadway Excavation                          | CY   | 36,729   | 20.00           | 734,580   |
| 190107 Roadway Excavation (Type Y-1) ADL           | CY   | 8,500    | 135.00          | 1,147,500 |
| 194001 Ditch Excavation                            | CY   |          |                 |           |
| 19801X Imported Borrow                             | CY   | 34,563   | 20.00           | 691,260   |
| 192037 Structure Excavation (Retaining Wall)       | CY   |          |                 |           |
| 193013 Structure Backfill (Retaining Wall)         | CY   |          |                 |           |
| 193031 Pervious Backfill Material (Retaining Wall) | CY   |          |                 |           |
| XXXXXX Dewatering (Retaining Wall)                 | LS   | 1        | 50,000.00       | 50,000    |
| Remove Retaining Wall                              | SF   | 1,000    | 12.00           | 12,000    |
| 16010X Clearing & Grubbing                         | ACRE | 11       | 5,000.00        | 55,000    |
| 170101 Develop Water Supply                        | LS   | 1        | 100,000.00      | 100,000   |
| 210130 Duff  | ACRE |          |                 |           |
| XXXXXX Some Item                                   | Unit |          |                 |           |

|                                      |           |                  |
|--------------------------------------|-----------|------------------|
| <b>TOTAL EARTHWORK SECTION ITEMS</b> | <b>\$</b> | <b>2,790,400</b> |
|--------------------------------------|-----------|------------------|

SECTION 2: PAVEMENT STRUCTURAL SECTION

| Item code   | Unit     | Quantity | Unit Price (\$) | Cost      |
|---|----------|----------|-----------------|-----------|
| 401050 Jointed Plain Concrete Pavement                | CY       | 940      | 260.00          | 244,400   |
| 400050 Continuously Reinforced Concrete Pavement      | CY       |          |                 |           |
| 404092 Seal Pavement Joint                            | LF       |          |                 |           |
| 404093 Seal Isolation Joint                           | LF       |          |                 |           |
| 413117 Seal Concrete Pavement Joint (Silicone)        | LF       |          |                 |           |
| 413118 Seal Pavement Joint (Asphalt Rubber)           | LF       |          |                 |           |
| 280000 Lean Concrete Base                             | CY       | 940      | 170.00          | 159,800   |
| 280010 Rapid Strength Concrete Base                   | CY       |          |                 |           |
| 410095 Dowel Bar (Drill and Bond)                     | EA       |          |                 |           |
| 390132 Hot Mix Asphalt (Type A)                       | TON      | 23,620   | 100.00          | 2,362,000 |
| 390137 Rubberized Hot Mix Asphalt (Gap Graded)        | TON      |          |                 |           |
| 39300X Geosynthetic Pavement Interlayer (Type X)      | SQYD     |          |                 |           |
| 26020X Class 2 Aggregate Base                         | CY       | 14,030   | 45.00           | 631,350   |
| 290201 Asphalt Treated Permeable Base                 | CY       |          |                 |           |
| 250201 Class 2 Aggregate Subbase                      | CY       | 6,390    | 40.00           | 255,600   |
| 250401 Class 4 Aggregate Subbase                      | CY       |          |                 |           |
| 374002 Asphaltic Emulsion (Fog Seal Coat)             | TON      |          |                 |           |
| 397005 Tack Coat                                      | TON      |          |                 |           |
| 377501 Slurry Seal                                    | TON      |          |                 |           |
| 3750XX Screenings (Type XX)                           | TON      |          |                 |           |
| 374492 Asphaltic Emulsion (Polymer Modified)          | TON      |          |                 |           |
| 370001 Sand Cover (Seal)                              | TON      |          |                 |           |
| 731530 Minor Concrete (Textured Paving)               | CY       |          |                 |           |
| 731502 Minor Concrete (Miscellaneous Construction)    | CY       |          |                 |           |
| 39407X Place Hot Mix Asphalt Dike (Type X)            | LF       |          |                 |           |
| 150771 Remove Asphalt Concrete Dike                   | LF       |          |                 |           |
| 420201 Grind Existing Concrete Pavement               | SQYD     |          |                 |           |
| 150860 Remove Base and Surfacing                      | SY       | 28,498   | 15.00           | 427,470   |
| 390095 Replace Asphalt Concrete Surfacing             | CY       |          |                 |           |
| 15312X Remove Concrete                                | LF/CY/LS |          |                 |           |
| 394090 Place Hot Mix Asphalt (Miscellaneous Area)     | SQYD     |          |                 |           |
| 153103 Cold Plane Asphalt Concrete Pavement           | SQYD     |          |                 |           |
| 39405X Shoulder Rumble Strip (HMA, X-In Indentations) | STA      |          |                 |           |
| 413113 Repair Spalled Joints, Polyester Grout         | SQYD     |          |                 |           |
| 420102 Groove Existing Concrete Pavement              | SQYD     |          |                 |           |
| 390136 Minor Hot Mix Asphalt                          | TON      |          |                 |           |
| 394095 Roadside Paving (Miscellaneous Areas)          | SQYD     |          |                 |           |
| XXXXXX Some Item                                      | Unit     |          |                 |           |

|  |           |                  |
|--|-----------|------------------|
| <b>TOTAL PAVEMENT STRUCTURAL SECTION ITEMS</b> | <b>\$</b> | <b>4,080,700</b> |
|--|-----------|------------------|

PROJECT

EA, 07-318500 PID: 715060304

SECTION 3: DRAINAGE

| Item code | Unit   | Quantity | Unit Price (\$) | Cost       |            |
|-----------|--|----------|-----------------|------------|------------|
| 15080X    | Remove Culvert                                 | EA/LF    |                 |            |            |
| 150820    | Modify Inlet                                   | EA       |                 |            |            |
| 155232    | Sand Backfill                                  | CY       |                 |            |            |
| 15020X    | Abandon Culvert                                | EA/LF    |                 |            |            |
| 152430    | Adjust Inlet                                   | LF       |                 |            |            |
| 155003    | Cap Inlet                                      | EA       |                 |            |            |
| 510501    | Minor Concrete                                 | CY       |                 |            |            |
| 510502    | Minor Concrete (Minor Structure)               | CY       |                 |            |            |
| 5105XX    | Minor Concrete (Type XX)                       | CY       |                 |            |            |
| 620XXX    | XX" Alternative Pipe Culvert (Type X)          | LF       |                 |            |            |
| 6411XX    | XX" Plastic Pipe                               | LF       |                 |            |            |
| 65XXXX    | XX" Reinforced Concrete Pipe (Type X)          | LF       |                 |            |            |
| 6650XX    | XX" Corrugated Steel Pipe (0.XXX" Thick)       | LF       |                 |            |            |
| 68XXXX    | XX" Plastic Pipe (Edge Drain)                  | LF       |                 |            |            |
| 69011X    | XX" Corrugated Steel Pipe Downdrain (0.XXX')   | LF       |                 |            |            |
| 70321X    | XX" Corrugated Steel Pipe Inlet (0.XXX" Thick) | LF       |                 |            |            |
| 70XXXX    | XX" Corrugated Steel Pipe Riser (0.XXX" Thick) | LF       |                 |            |            |
| 7050XX    | XX" Steel Flared End Section                   | EA       |                 |            |            |
| 703233    | Grated Line Drain                              | LF       |                 |            |            |
| 72XXXX    | Rock Slope Protection (Type and Method)        | CY/TON   |                 |            |            |
| 72901X    | Rock Slope Protection Fabric (Class X)         | SQYD     |                 |            |            |
| 721420    | Concrete (Ditch Lining)                        | CY       |                 |            |            |
| 721430    | Concrete (Channel Lining)                      | CY       |                 |            |            |
| 750001    | Miscellaneous Iron and Steel                   | LB       |                 |            |            |
| XXXXXX    | Roadway Drainage (7.5% Roadway Pavement)       | %        | 1               | 308,052.50 | \$ 308,053 |
| XXXXXX    | Treatment BMP - Bioswales                      | AC       | 3               | 88,000.00  | \$ 294,000 |
| XXXXXX    | Treatment BMP - Infiltration/Retention Basins  | AC       | 8               | 73,500.00  | \$ 588,000 |
| XXXXXX    | Additional Drainage                            | Unit     |                 |            | \$         |

TOTAL DRAINAGE ITEMS \$ 1,168,100

SECTION 4: SPECIALTY ITEMS

| Item code | Unit                                     | Quantity | Unit Price (\$) | Cost     |           |
|-----------|--|----------|-----------------|----------|-----------|
| 060050    | Progress Schedule (Critical Path Method) | LS       |                 |          |           |
| 510530    | Minor Concrete (Wall)                    | CY       |                 |          |           |
|           | Curb and Gutter                          | LF       | 1,600           | 90.00    | 144,000   |
|           | Sidewalk                                 | SF       | 13,000          | 5.00     | 65,000    |
|           | ADA Ramps                                | EA       | 11              | 8,000.00 | 88,000    |
| 15325X    | Remove Sound Wall                        | LF/LS    |                 |          |           |
| 070030    | Lead Compliance Plan                     | LS       |                 |          |           |
| 141120    | Treated Wood Waste                       | LB       |                 |          |           |
| 153221    | Remove Concrete Barrier                  | LF       |                 |          |           |
| 150682    | Remove Metal Beam Guard Railing          | LF       |                 |          |           |
| 150688    | Remove Flared End Section                | EA       |                 |          |           |
| 8000XX    | Chain Link Fence (Type XX)               | LF       |                 |          |           |
| 80XXXX    | XX" Chain Link Gate (Type CL-6)          | EA       |                 |          |           |
| 832017    | Midwest Guardrail System                 | LF       | 450             | 35.00    | 15,750    |
| 839301    | Single Thrie Beam Barrier                | LF       |                 |          |           |
| 839310    | Double Thrie Beam Barrier                | LF       |                 |          |           |
| 839521    | Cable Rolling                            | LF       |                 |          |           |
| 8395XX    | Terminal System (Type CAT)               | EA       |                 |          |           |
| 839585    | Alternative Flared Terminal System       | EA       | 2               | 5,000.00 | 10,000    |
| 839584    | Alternative In-line Terminal System      | EA       | 2               | 5,000.00 | 10,000    |
| 4806XX    | CIDH Concrete Piling (Insert Diameter)   | LF       |                 |          |           |
| 839XXX    | Crash Cushion (Insert Type)              | EA       |                 |          |           |
| 83XXXX    | Concrete Barrier (Insert Type)           | LF       |                 |          |           |
| 839704    | Concrete Barrier (Roadside Type 60D)     | LF       | 2,530           | 60.00    | 151,800   |
| XXXXXX    | Retaining Wall (Type TBD)                | SQFT     | 19,587          | 100.00   | 1,958,700 |
| 520103    | Bar Reinforced Steel (Retaining Wall)    | LB       |                 |          |           |
| 510060    | Structural Concrete, Retaining Wall      | SQFT     |                 |          |           |
| 513553    | Retaining Wall (Masonry Wall)            | SQFT     |                 |          |           |
| 511035    | Architectural Treatment                  | SQFT     |                 |          |           |
| 598001    | Anti-Graffiti Coating                    | SQFT     |                 |          |           |
| 203070    | Rock Stain                               | SQFT     |                 |          |           |
| 5136XX    | Reinforced Concrete Crib Wall (Type X)   | SQFT     |                 |          |           |
| 83954X    | Transition Railing (Type X)              | EA       |                 |          |           |
| 597601    | Prepare and Stain Concrete               | SQFT     |                 |          |           |
| 839561    | Rail Tensioning Assembly                 | EA       |                 |          |           |
| 83958X    | End Anchor Assembly (Type X)             | EA       |                 |          |           |
| XXXXXX    | Some Item                                | Unit     |                 |          |           |

TOTAL SPECIALTY ITEMS \$ 2,443,300

PROJECT

EA 07-018503 PID 71500004

SECTION 5: ENVIRONMENTAL

5A - ENVIRONMENTAL MITIGATION

| Item code                                | Unit | Quantity | Unit Price (\$) | Cost        |
|--|------|----------|-----------------|-------------|
| Biological Mitigation                    | LS   | x        | = \$            | -           |
| 130670 Temporary Reinforced Silt Fence   | LF   | x        | = \$            | -           |
| 141000 Temporary Fence (Type ESA)        | LF   | x        | = \$            | -           |
| <b>Subtotal Environmental Mitigation</b> |      |          |                 | <b>\$ -</b> |

5B - LANDSCAPE AND IRRIGATION

| Item code  | Unit     | Quantity | Unit Price (\$) | Cost              |
|--|----------|----------|-----------------|-------------------|
| 20XXXX Highway Planting  | AC       | 3 x      | 38,000.00 = \$  | 114,000           |
| 20XXXX Irrigation System   | AC       | 3 x      | 55,000.00 = \$  | 165,000           |
| 204099 Plant Establishment Work                                    | AC       | 3 x      | 16,680.00 = \$  | 50,040            |
| 204101 Extend Plant Establishment Work                             | LS       | x        | = \$            | -                 |
| 20XXXX Follow-up Landscape Project                                 | LS       | x        | = \$            | -                 |
| 150685 Remove Irrigation Facility                                  | LS       | x        | = \$            | -                 |
| 20XXXX Maintain Existing (Irrigation or Planted Areas)             | LS       | x        | = \$            | -                 |
| 208400 Check and Test Existing Irrigation Facilities               | LS       | x        | = \$            | -                 |
| 21011X Imported Topsoil (X)  | CY/TON   | x        | = \$            | -                 |
| 20XXXX Rock Blanket, Rock Mulch, DG, Gravel Mulch                  | QFT/SQYD | x        | = \$            | -                 |
| 200122 Weed Germination  | SQYD     | x        | = \$            | -                 |
| 208304 Water Meter   | EA       | x        | = \$            | -                 |
| 2087XX XX" Conduit (Use for Irrigation x-overs)                    | LF       | x        | = \$            | -                 |
| 20890X Extend X" Conduit (Use for Extension of Irrigation x-overs) | LF       | x        | = \$            | -                 |
| <b>Subtotal Landscape and Irrigation</b>                           |          |          |                 | <b>\$ 329,040</b> |

5C - EROSION CONTROL

| Item code   | Unit     | Quantity | Unit Price (\$) | Cost             |
|---|----------|----------|-----------------|------------------|
| 210010 Move In/Move Out (Erosion Control)         | EA       | x        | = \$            | -                |
| 210360 Fiber Rolls                                | LF       | x        | = \$            | -                |
| 210380 Compost Sock                               | LF       | x        | = \$            | -                |
| 2102XX Rolled Erosion Control Product (X)         | SQFT     | x        | = \$            | -                |
| 21025X Bonded Fiber Matrix                        | QFT/ACRE | x        | = \$            | -                |
| 210300 Hydromulch                                 | SQFT     | x        | = \$            | -                |
| 210420 Straw                                      | SQFT     | x        | = \$            | -                |
| 210430 Hydroseed                                  | SQFT     | x        | = \$            | -                |
| 210600 Compost                                    | SQFT     | x        | = \$            | -                |
| 210830 Incorporate Materials                      | SQFT     | x        | = \$            | -                |
| XXXXXX Lump Sum Design Pollution Prevention (DPP) | SY       | 30000 x  | = \$            | 30,000           |
| <b>Subtotal Erosion Control</b>                   |          |          |                 | <b>\$ 30,000</b> |

5D - NPDES

| Item code   | Unit | Quantity | Unit Price (\$) | Cost              |
|---|------|----------|-----------------|-------------------|
| 130300 Prepare SWPPP                                | LS   | x        | = \$            | -                 |
| 130200 Prepare WPCP                                 | LS   | x        | = \$            | -                 |
| 130100 Job Site Management                          | LS   | x        | = \$            | -                 |
| 130330 Storm Water Annual Report                    | EA   | x        | = \$            | -                 |
| 130310 Rain Event Action Plan (REAP)                | EA   | x        | = \$            | -                 |
| 130320 Storm Water Sampling and Analysis Day        | EA   | x        | = \$            | -                 |
| 130520 Temporary Hydraulic Mulch                    | SQYD | x        | = \$            | -                 |
| 130550 Temporary Hydroseed                          | SQYD | x        | = \$            | -                 |
| 130605 Move-in/Move-Out (Temporary Erosion Control) | EA   | x        | = \$            | -                 |
| 130640 Temporary Fiber Roll                         | LF   | x        | = \$            | -                 |
| 130900 Temporary Concrete Washout                   | LS   | x        | = \$            | -                 |
| 130710 Temporary Construction Entrance              | EA   | x        | = \$            | -                 |
| 130610 Temporary Check Dam                          | LF   | x        | = \$            | -                 |
| 130620 Temporary Drainage Inlet Protection          | EA   | x        | = \$            | -                 |
| 130730 Street Sweeping                              | LS   | x        | = \$            | -                 |
| XXXXXX Lump Sum NPDES (1.5% total project cost)     | %    | 1.5 x    | 20,000,000 = \$ | 300,000           |
| <b>Subtotal NPDES</b>                               |      |          |                 | <b>\$ 300,000</b> |

**TOTAL ENVIRONMENTAL \$ 650,100**

Supplemental Work for NPDES

|   |    |   |      |             |
|---|----|---|------|-------------|
| 066595 Water Pollution Control Maintenance Sharing* | LS | x | = \$ | -           |
| 066596 Additional Water Pollution Control**         | LS | x | = \$ | -           |
| 066597 Storm Water Sampling and Analysis***         | LS | x | = \$ | -           |
| XXXXXX Some Item                                    | LS | x | = \$ | -           |
| <b>Subtotal Supplemental Work for NPDES</b>         |    |   |      | <b>\$ -</b> |

\*Applies to all SWPPPs and those WPCPs with sediment control or oil stabilization BMPs

\*\*Applies to both SWPPPs and WPCP projects

\*\*\*Applies only to projects with SWPPPs

PROJECT

EA 07-318500 PID 715000304

SECTION 6: TRAFFIC ITEMS

6A - Traffic Electrical

| Item code   | Unit  | Quantity | Unit Price (\$) | Cost                |
|---|-------|----------|-----------------|---------------------|
| 860460 Lighting and Sign Illumination                 | EA/LS | 24       | x 12,500.00     | = \$ 300,000        |
| 860201 Signal and Lighting                            | LS    | 2        | x 150,000.00    | = \$ 300,000        |
| 860990 Closed Circuit Television System               | LS    | 1        | x 50,000.00     | = \$ 50,000         |
| 86110X Ramp Metering System                           | LS    | 2        | x 25,000.00     | = \$ 50,000         |
| 86070X Cable, Data, & Video Nodes                     | LF/LS | 1        | x 45,000.00     | = \$ 45,000         |
| 5602XX Furnish Sign Structure (Type X)                | EA    | 3        | x 40,000.00     | = \$ 120,000        |
| 5602XX Install Sign Structure (Type X)                | EA    | 3        | x 5,000.00      | = \$ 15,000         |
| 498040 XX" CIDHC Pile (Sign Foundation)               | LF    |          | x               | = \$                |
| 86080X Inductive Loop Detectors                       | EA/LS | 1        | x 10,000.00     | = \$ 10,000         |
| 860090 Maintain Existing Traffic Monitoring Station   | LS    | 1        | x 15,000.00     | = \$ 15,000         |
| 15075X Remove Sign Structure                          | EA/LS | 2        | x 5,000.00      | = \$ 10,000         |
| 151581 Reconstruct Sign Structure                     | EA    |          | x               | = \$                |
| 152641 Modify Sign Structure                          | EA    |          | x               | = \$                |
| 860090 Maintain Existing Traffic Management System I  | LS    |          | x               | = \$                |
| 86XXXX Fiber Optic Conduit System                     | LS    | 1        | x 120,000.00    | = \$ 120,000        |
| XXXXX Relocate / Modify existing Flashing Warning Sig | LS    | 1        | x 25,000.00     | = \$ 25,000         |
| XXXXX Some Item                                       | LS    |          | x               | = \$                |
| <b>Subtotal Traffic Electrical</b>                    |       |          |                 | <b>\$ 1,060,000</b> |

6B - Traffic Signing and Striping

| Item code   | Unit | Quantity | Unit Price (\$) | Cost              |
|---|------|----------|-----------------|-------------------|
| 566011 Roadside Sign - One Post                       | EA   |          | x               | = \$              |
| 566012 Roadside Sign - Two Post                       | EA   |          | x               | = \$              |
| 5602XX Furnish Sign                                   | SQFT |          | x               | = \$              |
| 568016 Install Sign Panel on Existing Frame           | SQFT |          | x               | = \$              |
| 150711 Remove Painted Traffic Stripe                  | LF   |          | x               | = \$              |
| 141101 Remove Yellow Painted Traffic Stripe           | LF   |          | x               | = \$              |
| 150712 Remove Painted Pavement Marking                | SQFT |          | x               | = \$              |
| 150742 Remove Roadside Sign                           | EA   |          | x               | = \$              |
| 152320 Reset Roadside Sign                            | EA   |          | x               | = \$              |
| 152390 Relocate Roadside Sign                         | EA   |          | x               | = \$              |
| 82010X Delineator (Class X)                           | EA   |          | x               | = \$              |
| 840502 Thermoplastic Traffic Stripe (Enhanced Wet Nli | LF   |          | x               | = \$              |
| 846012 Thermoplastic Crosswalk and Pavement Markin    | SQFT |          | x               | = \$              |
| 120090 Construction Area Signs                        | LS   |          | x               | = \$              |
| 84XXXX Permanent Pavement Delineation                 | LS   |          | x               | = \$              |
| 84XXXX Striping Lump Sum (7.5% cost of Roadway Pa     | LS   | 1        | x 306,052.50    | = \$ 306,053      |
| XXXXXX Roadside Signs Lump Sum                        | LS   | 1        | x 25,000.00     | = \$ 25,000       |
| <b>Subtotal Traffic Signing and Striping</b>          |      |          |                 | <b>\$ 331,053</b> |

6C - Traffic Management Plan

| Item code                                | Unit  | Quantity | Unit Price (\$) | Cost             |
|--|-------|----------|-----------------|------------------|
| 12865X Portable Changeable Message Signs | EA/LS | 1        | x \$ 60,000     | = \$ 60,000      |
| <b>Subtotal Traffic Management Plan</b>  |       |          |                 | <b>\$ 60,000</b> |

6C - Stage Construction and Traffic Handling

| Item code   | Unit | Quantity | Unit Price (\$) | Cost                |
|---|------|----------|-----------------|---------------------|
| 120199 Traffic Plastic Drum                             | EA   |          | x               | = \$                |
| 12016X Channelizer (Type X)                             | EA   |          | x               | = \$                |
| 120120 Type III Barricade                               | EA   |          | x               | = \$                |
| 129100 Temporary Crash Cushion Module                   | EA   |          | x               | = \$                |
| 120100 Traffic Control System                           | LS   |          | x               | = \$                |
| 129110 Temporary Crash Cushion                          | EA   |          | x               | = \$                |
| 129000 Temporary Railing (Type K)                       | LF   |          | x               | = \$                |
| 120149 Temporary Pavement Marking (Paint)               | SQFT |          | x               | = \$                |
| 82010X Delineator (Class X)                             | EA   |          | x               | = \$                |
| XXXXXX Stage Construction Lump Sum                      | Unit | 1        | x 250,000.00    | = \$ 250,000        |
| XXXXXX Some Item  | Unit |          | x               | = \$                |
| <b>Subtotal Stage Construction and Traffic Handling</b> |      |          |                 | <b>\$ 250,000</b>   |
| <b>TOTAL TRAFFIC ITEMS</b>                              |      |          |                 | <b>\$ 1,701,000</b> |

**PROJECT**

EA: 07-318500 PID: 715000304

**SECTION 7: DETOURS**

Includes constructing, maintaining, and removal

| Item code                                  | Unit   | Quantity | Unit Price (\$) | Cost        |
|--|--------|----------|-----------------|-------------|
| 190101 Roadway Excavation                  | CY     | x        | = \$            |             |
| 19801X Imported Borrow                     | CY/TON | x        | = \$            |             |
| 390132 Hot Mix Asphalt (Type A)            | TON    | x        | = \$            |             |
| 26020X Class 2 Aggregate Base              | TON/CY | x        | = \$            |             |
| 250401 Class 4 Aggregate Subbase           | CY     | x        | = \$            |             |
| 130620 Temporary Drainage Inlet Protection | EA     | x        | = \$            |             |
| 129000 Temporary Railing (Type K)          | LF     | x        | = \$            |             |
| 128601 Temporary Signal System             | LS     | x        | = \$            |             |
| 120149 Temporary Pavement Marking (Paint)  | SQFT   | x        | = \$            |             |
| 80010X Temporary Fence (Type X)            | LF     | x        | = \$            |             |
| XXXXXX Some Item                           | Unit   | x        | = \$            |             |
| <b>TOTAL DETOURS</b>                       |        |          |                 | <b>\$ -</b> |

**SUBTOTAL SECTIONS 1 through 7 \$ 12,862,700**

**SECTION 8: MINOR ITEMS**

|   |      |               |           |                     |
|---|------|---------------|-----------|---------------------|
| <b>8A - Americans with Disabilities Act Items</b> |      |               |           |                     |
| ADA Items   | 1.0% | \$            | 128,627   |                     |
| <b>8B - Bike Path Items</b>                       |      |               |           |                     |
| Bike Path Items                                   | 1.0% | \$            | 128,627   |                     |
| <b>8C - Other Minor Items</b>                     |      |               |           |                     |
| Other Minor Items                                 | 8.0% | \$            | 1,029,016 |                     |
| <b>Total of Section 1-7</b>                       |      | \$ 12,862,700 | x 10.0%   | = \$ 1,286,270      |
| <b>TOTAL MINOR ITEMS</b>                          |      |               |           | <b>\$ 1,286,300</b> |

**SECTIONS 9: MOBILIZATION**

|                           |                   |               |       |                     |
|---------------------------|-------------------|---------------|-------|---------------------|
| Item code                 | Total Section 1-8 | \$ 14,149,000 | x 10% | = \$ 1,414,900      |
| 999990                    |                   |               |       |                     |
| <b>TOTAL MOBILIZATION</b> |                   |               |       | <b>\$ 1,414,900</b> |

**SECTION 10: SUPPLEMENTAL WORK**

| Item code  | Unit | Quantity      | Unit Price (\$) | Cost                |
|--|------|---------------|-----------------|---------------------|
| 066670 Payment Adjustments For Price Index Fluctuations        | LS   | x             | = \$            |                     |
| 066094 Value Analysis  | LS   | x             | = \$            |                     |
| 066070 Maintain Traffic  | LS   | x             | = \$            |                     |
| 066919 Dispute Resolution Board                                | LS   | x             | = \$            |                     |
| 066921 Dispute Resolution Advisor                              | LS   | x             | = \$            |                     |
| 066015 Federal Trainee Program                                 | LS   | x             | = \$            |                     |
| 066610 Partnering  | LS   | x             | = \$            |                     |
| 066204 Remove Rock and Debris                                  | LS   | x             | = \$            |                     |
| 066222 Locate Existing Crossover                               | LS   | x             | = \$            |                     |
| XXXXXX Some Item   | Unit | x             | = \$            |                     |
| <i>Cost of NPDES Supplemental Work specified in Section 5D</i> |      |               |                 | <i>\$ -</i>         |
| <b>Total Section 1-8</b>                                       |      | \$ 14,149,000 | 10%             | = \$ 1,414,900      |
| <b>TOTAL SUPPLEMENTAL WORK</b>                                 |      |               |                 | <b>\$ 1,414,900</b> |

PROJECT

EA: 07-318500 PID 715000304

**SECTION 11: STATE FURNISHED MATERIALS AND EXPENSES**

| Item code  | Unit | Quantity             | Unit Price (\$) | Cost                |
|--|------|----------------------|-----------------|---------------------|
| 066105 Resident Engineers Office                     | LS   |                      | x               | \$0                 |
| 066063 Traffic Management Plan - Public Information* | LS   | 1                    | x \$ 23,400     | \$23,400            |
| 066901 Water Expenses                                | LS   |                      | x               | \$0                 |
| 8609XX Traffic Monitoring Station (X)                | LS   |                      | x               | \$0                 |
| 066841 Traffic Controller Assembly                   | LS   |                      | x               | \$0                 |
| 066840 Traffic Signal Controller Assembly            | LS   |                      | x               | \$0                 |
| 066062 COZEEP Contract*                              | LS   | 1                    | x \$ 46,592     | \$46,592            |
| 066838 Reflective Numbers and Edge Sealer            | LS   |                      | x               | \$0                 |
| 066065 Tow Truck Service Patrol                      | LS   |                      | x               | \$0                 |
| 066916 Annual Construction General Permit Fee        | LS   |                      | x               | \$0                 |
| XXXXXX Some Item                                     | Unit |                      | x               | \$0                 |
| <b>Total Section 1-8</b>                             |      | <b>\$ 14,149,000</b> | <b>6%</b>       | <b>= \$ 848,940</b> |

\*Reimbursable work by the State

|                              |                  |
|------------------------------|------------------|
| <b>TOTAL STATE FURNISHED</b> | <b>\$919,000</b> |
|------------------------------|------------------|

**SECTION 12: TIME-RELATED OVERHEAD**

Total of Roadway and Structures Contract Items excluding Mobilization \$14,149,000 (used to calculate TRO)  
 Total Construction Cost (excluding TRO and Contingency) \$17,897,800 (used to check if project is greater than \$5 million excluding contingency)

Estimated Time-Related 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 |

|                                    |                    |
|------------------------------------|--------------------|
| <b>TOTAL TIME-RELATED OVERHEAD</b> | <b>\$1,414,900</b> |
|------------------------------------|--------------------|

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 Contingency: (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 x 15% = \$2,684,670

|                          |                    |
|--------------------------|--------------------|
| <b>TOTAL CONTINGENCY</b> | <b>\$2,684,700</b> |
|--------------------------|--------------------|

PROJECT

EA: 07-318500 PID: 715000304

II. STRUCTURE ITEMS

|                               |                      |                      |                      |
|-------------------------------|----------------------|----------------------|----------------------|
| DATE OF ESTIMATE              | 00/00/00             | 00/00/00             | 00/00/00             |
| Name                          | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX |
| Bridge Number                 | 57-XXX               | 57-XXX               | 57-XXX               |
| Structure Type                | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX |
| Width (Feet) [out to out]     | 0 LF                 | 0 LF                 | 0 LF                 |
| Total Length (Feet)           | 0 LF                 | 0 LF                 | 0 LF                 |
| Total Area (Square Feet)      | 0 SQFT               | 0 SQFT               | 0 SQFT               |
| Structure Depth (Feet)        | 0 LF                 | 0 LF                 | 0 LF                 |
| Footing Type (pile or spread) | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX |
| Cost Per Square Foot          | \$0                  | \$0                  | \$0                  |
| <b>COST OF EACH STRUCTURE</b> | <b>\$0</b>           | <b>\$0</b>           | <b>\$0</b>           |

|                               |                      |                      |                      |
|-------------------------------|----------------------|----------------------|----------------------|
| DATE OF ESTIMATE              | 00/00/00             | 00/00/00             | 00/00/00             |
| Name                          | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX |
| Bridge Number                 | 57-XXX               | 57-XXX               | 57-XXX               |
| Structure Type                | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX |
| Width (Feet) [out to out]     | 0 LF                 | 0 LF                 | 0 LF                 |
| Total Length (Feet)           | 0 LF                 | 0 LF                 | 0 LF                 |
| Total Area (Square Feet)      | 0 SQFT               | 0 SQFT               | 0 SQFT               |
| Structure Depth (Feet)        | 0 LF                 | 0 LF                 | 0 LF                 |
| Footing Type (pile or spread) | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX |
| Cost Per Square Foot          | \$100                | \$0                  | \$0                  |
| <b>COST OF EACH STRUCTURE</b> | <b>\$0</b>           | <b>\$0</b>           | <b>\$0</b>           |

**TOTAL COST OF BRIDGES** \$0

**TOTAL COST OF BUILDINGS** \$0

Structures Mobilization Percentage 10% \$0

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

Structures Contingency Percentage 25% \$0

**TOTAL COST OF STRUCTURES** \$0

Estimate Prepared By B. J. G.  
Estimator

5-29-19  
Date

PROJECT

EA: 07-316500 PID: 715000304

III. RIGHT OF WAY


Fill in all of the available information from the Right of Way data sheet.


|    |  |    |           |
|----|--|----|-----------|
| A) | A1) Acquisition, including Excess Land Purchases, Damages & Goodwill, Fees | \$ | 7,172,584 |
|    | A2) SB-1210  | \$ | 0         |
| B) | Acquisition of Offsite Mitigation  | \$ | 0         |
| C) | C1) Utility Relocation (State Share)                                       | \$ | 0         |
|    | C2) Potholing (Design Phase)   | \$ | 0         |
| D) | Railroad Acquisition   | \$ | 0         |
| E) | Clearance / Demolition   | \$ | 27,500    |
| F) | Relocation Assistance (RAP and/or Last Resort Housing Costs)               | \$ | 0         |
| G) | Title and Escrow   | \$ | 0         |
| H) | Environmental Review   | \$ | 0         |
| I) | Condemnation Settlements   | \$ | 0%        |
| J) | Design Appreciation Factor   | \$ | 0%        |
| K) | Utility Relocation (Construction Cost)                                     | \$ | 2,151,375 |


L) TOTAL RIGHT OF WAY ESTIMATE **\$9,351,439**

M) TOTAL R/W ESTIMATE: Escalated **\$9,753,645**

N) RIGHT OF WAY SUPPORT **\$500,000**

Support Cost Estimate Prepared By  714-587-2731  
Project Coordinator Phone

Utility Estimate Prepared By  714-587-2731  
Utility Coordinator Phone

RAW Acquisition Estimate Prepared By  714-587-2731  
Right of Way Engineer Phone

**Attachment H**  
**Negative Declaration**

SCH Number: 2018101003

## Negative Declaration

Pursuant to: Division 13, Public Resources Code

### ***Project Description***

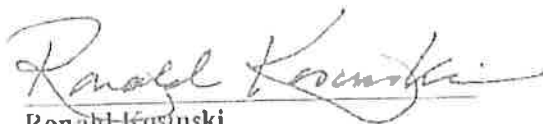
The California Department of Transportation (Caltrans), in cooperation with the City of Los Angeles Harbor Department (LAHD), proposes to reconfigure the existing interchange at State Route 47 (SR-47)/Vincent Thomas Bridge and Harbor Boulevard/Front Street. The project limits on SR-47 extend from approximately 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.



Ronald Kosinski  
Deputy District Director  
Division of Environmental Planning, District 7  
California Department of Transportation

March 8, 2019  
Date of Approval

**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  
Date

  
Ronald Kosinski  
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 Thomas Bridge

Project Description: **Reconfigure existing interchange to create new, separate westbound ramp terminus. Modify and reconstruct eastbound ramps. Modify and reconstruct Harbor Blvd and Front Street between the new and existing termini.**

1) Public Information (by POLA staff and resources)

|                                     |   |                  |
|-------------------------------------|---|------------------|
| <input checked="" type="checkbox"/> | a. Brochures and Mailers  | \$ <u>9,000</u>  |
| <input checked="" type="checkbox"/> | b. Press Release  | \$ <u>0</u>      |
| <input checked="" type="checkbox"/> | c. Paid Advertising   | \$ <u>14,400</u> |
| <input type="checkbox"/>            | d. Public Information Center/Kiosk                                      | \$ <u>0</u>      |
| <input checked="" type="checkbox"/> | e. Public Meeting/Speakers Bureau                                       | \$ <u>0</u>      |
| <input type="checkbox"/>            | f. Telephone Hotline  | \$ <u>0</u>      |
| <input checked="" type="checkbox"/> | g. Internet   | \$ <u>0</u>      |
| <input checked="" type="checkbox"/> | h. Other: <u>Social networking portals such as Facebook and Twitter</u> | \$ <u>0</u>      |

2) Motorists Information Strategies

|                                     |  |                  |
|-------------------------------------|--|------------------|
| <input type="checkbox"/>            | a. Changeable Message Signs (Fixed)            | \$ <u>0</u>      |
| <input checked="" type="checkbox"/> | b. Changeable Message Signs (Portable)         | \$ <u>60,000</u> |
| <input type="checkbox"/>            | c. Ground Mounted Signs                        | \$ <u>0</u>      |
| <input checked="" type="checkbox"/> | d. Highway Advisory Radio                      | \$ <u>0</u>      |
| <input checked="" type="checkbox"/> | e. Caltrans Highway Information Network (CHIN) | \$ <u>0</u>      |
|                                     | f. Others _____                                | \$ <u>0</u>      |

3) Incident Management

|                                     |  |                  |
|-------------------------------------|--|------------------|
| <input checked="" type="checkbox"/> | a. Construction Zone Enhanced Enforcement Program (COZEEP) | \$ <u>46,592</u> |
| <input type="checkbox"/>            | b. Freeway Service Patrol                                  | \$ <u>0</u>      |
| <input type="checkbox"/>            | c. Traffic Management Team                                 | \$ <u>0</u>      |
| <input type="checkbox"/>            | d. Helicopter Surveillance                                 | \$ <u>0</u>      |
| <input checked="" type="checkbox"/> | e. Traffic Surveillance Stations (Loop Detector and CCTV)  | \$ <u>0</u>      |
| <input type="checkbox"/>            | f. Others _____  | \$ <u>0</u>      |

4) Construction Strategies

- a. Lane Closure Chart
- b. Reversible Lanes
- c. Total Facility Closure
- d. Contra Flow
- e. Truck Traffic Restrictions
- f. Reduced Speed Zone
- g. Connector and Ramp Closures
- h. Incentive and Disincentive
- i. Moveable Barrier (included in Section 5 of project Cost Estimate)
- j. Others \_\_\_\_\_

|    |   |
|----|---|
| \$ | 0 |
| \$ | 0 |
| \$ | 0 |
| \$ | 0 |
| \$ | 0 |
| \$ | 0 |
| \$ | 0 |
| \$ | 0 |
| \$ | 0 |
| \$ | 0 |
| \$ | 0 |

5) Demand Management

- a. HOV Lanes/Ramps (New or Convert)
- b. Park and Ride Lots
- c. Rideshare Incentives
- d. Variable Work Hours
- e. Telecommute
- f. Ramp Metering (Temporary Installation)
- g. Ramp Metering (Modify Existing)
- h. Others \_\_\_\_\_

|    |   |
|----|---|
| \$ | 0 |
| \$ | 0 |
| \$ | 0 |
| \$ | 0 |
| \$ | 0 |
| \$ | 0 |
| \$ | 0 |
| \$ | 0 |

6) Alternative Route Strategies

- a. Add Capacity to Freeway Connector
- b. Street Improvement (widening, traffic signal ... etc.)
- c. Traffic Control Officers
- d. Parking Restrictions
- e. Others \_\_\_\_\_

|    |   |
|----|---|
| \$ | 0 |
| \$ | 0 |
| \$ | 0 |
| \$ | 0 |
| \$ | 0 |

7) Other Strategies

- a. Application of New Technology
- b. Others \_\_\_\_\_

|    |   |
|----|---|
| \$ | 0 |
| \$ | 0 |

TOTAL ESTIMATED COST OF TMP ELEMENTS =

\$ 129,992


Project Notes:

PREPARED BY

  
Brad Slawson, PE, AECOM

DATE 5-30-19

APPROVAL RECOMMENDED BY

  
Denis Katayama, Sr. T.E.,  
Caltrans District 7

DATE 6/6/19

APPROVED BY

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

DATE 6/10/2019

**Attachment J**  
**TASAS TABLE B**

California Department of Transportation  
Table B - Selective Accident Rate Calculation

OTM22130  
12/06/2018  
01:27 PM

| Location Description                         | Rate Group (RUS) | No. of Accidents / Significance |     |     | Pers |           |     | ADT Main X-St | Total MV+ or MVM | Actual |     |     | Accident Rates Average |       |       |     |     |       |     |     |  |
|--|------------------|---------------------------------|-----|-----|------|-----------|-----|---------------|------------------|--------|-----|-----|------------------------|-------|-------|-----|-----|-------|-----|-----|--|
|  |                  | Tot                             | Fat | Inj | F+I  | Multi Veh | Wet |               |                  | Dark   | Kid | Inj | Fat                    | F+I   | Tot   | Fat | F+I | Tot   |     |     |  |
| 07 LA 047 R000.349 047/NB OFF TO HARBOR BLVD | R 62             | 3                               | 0   | 1   | 1    | 1         | 0   | 2             | 0                | 1      | 0   | 0   | 8.7                    | 9.50+ | 0.000 | .11 | .32 | 0.003 | .12 | .37 |  |
| 0001-0001 2015-01-01 2017-12-31              | U                |                                 |     |     |      |           | 1   |               |                  |        |     |     | .0                     |       |       |     |     |       |     |     |  |
|  |                  |                                 |     |     |      |           |     |               |                  |        |     |     |                        |       |       |     |     |       |     |     |  |

36 mo.

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

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

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

OTM22130  
12/06/2018  
01:51 PM

California Department of Transportation  
Table B - Selective Accident Rate Calculation

Page# 1  
Event ID: 4065537

| Location Description   | Rate Group (RUS) | No. of Accidents / Significance |     |     | Persons Killed Inj | ADT Main X-St | Total MV+ or MVM | Actual |     | Accident Rates |       |     |     |
|--|------------------|---------------------------------|-----|-----|--------------------|---------------|------------------|--------|-----|----------------|-------|-----|-----|
|  |                  | Tot                             | Fat | Inj |                    |               |                  | Fat    | F+I | Tot            | Fat   | F+I | Tot |
| 07 LA 047 000.788 047NB ON FR HARBOR BLVD<br>0001-0001 2015-01-01 2017-12-31 | R 24<br>U        | 3                               | 0   | 2   | 2                  | 5.2<br>.0     | 5.67 +           | 0.000  | .35 | .53            | 0.001 | .23 | .67 |

36 mo.

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

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

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

California Department of Transportation  
Table B - Selective Accident Rate Calculation

OTM22130  
12/05/2018  
01:56 PM

| Location Description  | Rate Group (RUS)               | No. of Accidents / Significance | No. of Accidents / Significance |          |          | ADT Main X-St | Total MV+ or MVM | Actual |     |      | Accident Rates Average |     |     |
|---|--------------------------------|---------------------------------|---------------------------------|----------|----------|---------------|------------------|--------|-----|------|------------------------|-----|-----|
|   |                                |                                 | Tot                             | Fat      | Inj      |               |                  | Fat    | F+I | Fat  | Fat                    | F+I | Tot |
| 07 LA 047 R000.349 - 07 LA 047 000.787<br>0001-0001 2015-01-01 2017-12-31 | 147 MI H<br>U<br>36 mo.        | 19<br>H99                       | 0<br>H97                        | 6<br>H97 | 6<br>H97 | 52.5          | 8.46             | 0.000  | .71 | 2.25 | 0.005                  | .24 | .72 |
| 07 LA 047 R000.349 - 07 LA 047 000.787<br>0001-0002 2015-01-01 2017-12-31 | .147 MI H<br>NORTH U<br>36 mo. | 13<br>H99                       | 0<br>H97                        | 4<br>H97 | 4<br>H97 | 26.3          | 4.23             | 0.000  | .95 | 3.07 | 0.005                  | .24 | .71 |
| 07 LA 047 R000.348 - 07 LA 047 000.787<br>0001-0003 2015-01-01 2017-12-31 | .147 MI H<br>SOUTH U<br>36 mo. | 6<br>H90                        | 0<br>H90                        | 2<br>H90 | 2<br>H90 | 26.3          | 4.23             | 0.000  | .47 | 1.42 | 0.005                  | .24 | .71 |

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

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

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

OTM22130  
12/05/2018  
02:14 PM

California Department of Transportation  
Table B - Selective Accident Rate Calculation

Page# 1  
Event ID: 4064983

| Location Description   | Rate Group (RUS) | Rate                         | No. of Accidents / Significance |     |     | Mvft Veh | Pens |     |      | ADT Main X-St | Total MV+ or MVM | Actual |       | Accident Rates Average |      |       |     |     |
|--|------------------|------------------------------|---------------------------------|-----|-----|----------|------|-----|------|---------------|------------------|--------|-------|------------------------|------|-------|-----|-----|
|  |                  |                              | Tot                             | Fat | Inj |          | F+I  | Wet | Dark |               |                  | Kid    | Inj   | Fat                    | F+I  | Tot   | Fat | F+I |
| 07 LA 047 000.788 - 07 LA 047 000.857<br>0001-0001 2015-01-01 2017-12-31 | U                | .070 MI H 63<br>36 mo.       | 10                              | 0   | 1   | 1        | 7    | 2   | 6    | 0             | 52.3             | 4.02   | 0.000 | .25                    | 2.49 | 0.005 | .26 | .76 |
| 07 LA 047 000.788 - 07 LA 047 000.857<br>0001-0002 2015-01-01 2017-12-31 | U                | .070 MI H 63<br>36 mo. NORTH | 7                               | 0   | 1   | 1        | 6    | 2   | 3    | 0             | 25.2             | 2.01   | 0.000 | .50                    | 3.48 | 0.005 | .26 | .76 |
| 07 LA 047 000.788 - 07 LA 047 000.857<br>0001-0004 2015-01-01 2017-12-31 | U                | .070 MI H 63<br>36 mo. SOUTH | 3                               | 0   | 0   | 0        | 1    | 0   | 3    | 0             | 26.2             | 2.01   | 0.000 | .00                    | 1.49 | 0.005 | .26 | .76 |

Accident Rates expressed as: # of accidents / Million vehicle miles  
 † denotes that Million Vehicles (MV) used in accident rates instead (for intersections and ramps).  
 For Ramps RUS only considers R(Rural) U(Urban)

California Department of Transportation  
Table B - Selective Accident Rate Calculation

OTM22130  
12/05/2018  
01:29 PM

| Location Description                    | Rate Group (RUS) | No. of Accidents / Significance |     |     | Pers Ktd Inj | ADT Main X-St | Total MV+ or MVM | Actual |     | Accident Rates |       |     |     |
|---|------------------|---------------------------------|-----|-----|--------------|---------------|------------------|--------|-----|----------------|-------|-----|-----|
|   |                  | Tot                             | Fat | Inj |              |               |                  | Fat    | F+I | Tot            | Fat   | F+I | Tot |
| 07 LA 047 L000.000 - 07 LA 047 R000.348 | .583 MIH         | 11                              | 1   | 2   | 1            | 49.9          | 31.91            | 0.031  | .09 | .35            | 0.007 | .33 | .87 |
| 0001-0001 2015-01-01 2017-12-31         | U                |                                 |     |     | 3            |               |                  |        |     |                |       |     |     |
|   | 36 mo.           |                                 |     |     |              |               |                  |        |     |                |       |     |     |

Accident Rates expressed as: # of accidents / Million vehicle miles  
+ denotes that Million Vehicles (MV) used in accident rates instead (for intersections and ramps).  
For Ramps RUS only considers R(Rural) U(Urban)



California Department of Transportation  
Table B - Selective Accident Rate Calculation

OTM22130  
12/06/2018  
02:16 PM

| Location Description                       | Rate Group (RUS) | No. of Accidents / Significance |     |     | ADT Main X-St | Total MV+ or MVM | Actual |     |     | Accident Rates |         |     |
|--|------------------|---------------------------------|-----|-----|---------------|------------------|--------|-----|-----|----------------|---------|-----|
|  |                  | Tot                             | Fal | Inj |               |                  | Fat    | F+  | F+  | Fat            | Average | Fat |
| 07 LA 047 R000.377 047/SBON FR HARBOR BLVD | R 12             | 3                               | 0   | 0   | 5.4           | 5.88 +           | 0.000  | .00 | .51 | 0.002          | .21     | .60 |
| 0001-0001 2015-01-01 2017-12-31            | U                |                                 |     |     | .0            |                  |        |     |     |                |         |     |

36 mo.

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

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

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

California Department of Transportation  
Table B - Selective Accident Rate Calculation

OTW22130  
12/06/2018  
10:47 AM

| Location Description  | Rate Group (RUS)                  | No. of Accidents / Significance | No. of Accidents / Significance |     |     | Multi Veh | Wet | Dark | Pers Kid Inj | ADT Main X-St | Total MV+ or MVM | Actual |     | Accident Rates |       | Average F+I | Tot |
|---|-----------------------------------|---------------------------------|---------------------------------|-----|-----|-----------|-----|------|--------------|---------------|------------------|--------|-----|----------------|-------|-------------|-----|
|   |                                   |                                 | Tot                             | Fat | Inj |           |     |      |              |               |                  | F+I    | Fat | F+I            |       |             |     |
| 07 LA 047 R000.377 - 07 LA 047 000.818<br>0001-0001 2015-01-01 2017-12-31 | .150 MI H 63<br>U<br>36 mo.       | 22                              | 0                               | 6   | 6   | 19        | 3   | 6    | 0            | 52.5          | 8.63             | 0.000  | .70 | 2.55           | 0.005 | .26         | .76 |
| 07 LA 047 R000.377 - 07 LA 047 000.818<br>0001-0002 2015-01-01 2017-12-31 | .150 MI H 63<br>NORTH U<br>36 mo. | 15                              | 0                               | 4   | 4   | 13        | 3   | 2    | 0            | 26.2          | 4.31             | 0.000  | .93 | 3.48           | 0.005 | .26         | .76 |
| 07 LA 047 R000.377 - 07 LA 047 000.818<br>0001-0004 2015-01-01 2017-12-31 | .150 MI H 63<br>SOUTH U<br>36 mo. | 7                               | 0                               | 2   | 2   | 6         | 0   | 4    | 0            | 26.2          | 4.31             | 0.000  | .46 | 1.62           | 0.005 | .26         | .76 |

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

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

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



California Department of Transportation  
Table B - Selective Accident Rate Calculation

| Location Description                 | Rate Group (RUS) | No. of Accidents / Significance | No. of Accidents / Significance |     |     | ADT Main X-St | Total MV+ or MVM | Actual |     |     | Accident Rates Average |     |     |     |     |   |   |   |
|--------------------------------------|------------------|---------------------------------|---------------------------------|-----|-----|---------------|------------------|--------|-----|-----|------------------------|-----|-----|-----|-----|---|---|---|
|                                      |                  |                                 | Tot                             | Fat | Inj |               |                  | Fat    | F+I | Tot | Fat                    | F+I | Tot | Fat | F+I |   |   |   |
| LA 047 L000.000 - 07 LA 047 R000.376 | .611 MI H        | 12                              | 1                               | 2   | 3   | 9             | 1                | 2      | 1   | 2   | 1                      | 3   | 3   | 3   | 3   | 3 | 3 | 3 |
| 2015-01-01 2017-12-31                | U                |                                 |                                 |     |     |               |                  |        |     |     |                        |     |     |     |     |   |   |   |
|                                      | 36 mo.           |                                 |                                 |     |     |               |                  |        |     |     |                        |     |     |     |     |   |   |   |

Accident Rates expressed # of accidents / Million vehicle miles

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

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

**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-Route: 07-LA-47  
 Post Mile Limits: 0.3/0.8  
 Type of Work: Freeway Ramp Modifications/Configurations  
 Project ID (EA): 0715000304 (318500)  
 Program Identification: 20.30.600.624  
 Phase:  PID  PA/ED  PS&E

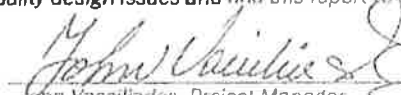
Regional Water Quality Control Board(s): Region 4, Los Angeles Region  
 Total Disturbed Soil Area: 13.3 Acres PCTA: 2.2 Acres  
 Alternative Compliance (acres): 0 Acres ATA 2 (50% Rule)? Yes  No   
 Estimated Const. Start Date: 10/1/2020 Estimated Const. Completion Date: 9/30/2022  
 Risk Level: RL 1  RL 2  RL 3  WPCP  Other: \_\_\_\_\_  
 Is MWELO applicable? Yes  No   
 Is the Project within a TMDL (Total Maximum Daily Load watershed)? Yes  No   
 TMDL Compliance Units (acres): 10.61  
 Notification of ADL reuse (if yes, provide date): Yes  Date: \_\_\_\_\_ No

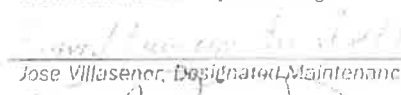
*This Report has been prepared under the direction of the following Licensed Person. The Licensed Person attests to the technical information contained herein and the date upon which recommendations, conclusions, and decisions are based. Professional Engineer or Landscape Architect stamp required at PS&E only.*

  
 Brad Slawson, PE  
 Registered Project Engineer

 5/31/19  
 Hamid R. Toosa  
 Caltrans Designated Oversight Representative

*I have reviewed the stormwater quality design issues and find this report to be complete, current and accurate:*

 6/3/2019  
 John Vassiliades, Project Manager

 \_\_\_\_\_  
 Jose Villasenor, Designated Maintenance Representative

 06/10/19  
 Ron Russak, Designated Landscape Architect Representative

[Stamp Required at PS&E only]

 06/11/2019  
 Sunny Llem, District/Regional Design SW Coordinator or Designee

**Attachment L**

**Hazardous Waste Assessment Letter**



AECOM  
 999 W. Town & Country Road  
 Orange, CA 92668  
 714.567.2400  
 www.aecom.com

## Technical Memorandum

|         |   |
|---------|---|
| To      | MD Alam (Caltrans)  |
| cc      | Sarah Aziz (POLA)   |
| Project | <b>EA 318500: SR 47/Vincent Thomas Bridge &amp; Front Street/Harbor Boulevard Interchange Reconfiguration Project</b> |
| Subject | <b>Final ISA – Addendum #1</b>  |
| 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.             | 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   | <b>7448-034-905</b> | 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        | Knoll Hill, Vacant  | Roadway Grading                     |
| 10  | 7448-034-919        | Knoll Hill, Vacant  | Roadway Grading                     |
| 11  | 7448-034-920        | <b>Knoll Hill, Vacant</b>   | Roadway Grading                     |
| 12  | 7448-034-921        | Knoll Hill, Vacant  | Roadway Grading                     |
| 13  | 7448-034-923        | <b>Knoll Hill, Vacant</b>   | 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  | <b>7448-035-906</b> | Port Police Truck Inspection Facility                                       | <b>Roadway / Utility</b>            |
| 18  | <b>7448-035-906</b> | <b>K9 Training Facility, Dog Park, Truck Inspection</b>                     | <b>Proposed Ramp / Utility</b>      |
| 19  | 7448-035-907        | Sewer Pump Station, Grading   | Roadway / Walls / Utility           |
| 20  | 7448-035-908        | Knoll Hill, Park and Vacant   | Roadway Grading                     |
| 21  | <b>7448-035-913</b> | <b>Knoll Hill, Vacant Land, and Dog Park</b>                                | <b>Proposed Ramp</b>                |
| 22  | <b>7448-035-914</b> | <b>Knoll Hill, Vacant Land, and Dog Park</b>                                | <b>Proposed Ramp</b>                |
| 26  | 7448-035-921        | Knoll Hill, Vacant  | Roadway Grading                     |
| 30  | <b>7448-035-925</b> | <b>Knoll Hill, Vacant and K9 Training Facility</b>                          | <b>Proposed Ramp</b>                |
| 31  | <b>7448-035-926</b> | <b>Knoll Hill, Vacant Land, and K9 Training Facility</b>                    | <b>Proposed Ramp</b>                |
| 32  | <b>7448-035-927</b> | <b>UPRR Former Pacific Harbor Line, Vacant Land (Same as Parcel 932)</b>    | <b>Proposed Ramp</b>                |
| 33  | 7448-035-930        | Knoll Hill, Park and Vacant   | Roadway Grading                     |
| 34  | <b>7448-035-932</b> | <b>UPRR Former Pacific Harbor Line, Vacant Land (Same Parcel as 927)</b>    | <b>Proposed Ramp</b>                |
| 35  | <b>7448-035-935</b> | <b>Knoll Hill, Vacant Land, and K9 Training Facility</b>                    | <b>Proposed Ramp</b>                |
| 36  | <b>7448-035-936</b> | <b>Knoll Hill, Port Police Truck Inspection Facility</b>                    | <b>Proposed Ramp</b>                |
| 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        | Knoll Hill, Vacant  | Roadway Grading                     |
| 44  | 7448-034-925        | Knoll Hill, NE  | Roadway Grading                     |
| 45  | 7448-035-929        | Pacific Harbor Line sliver right-of-way near Front St. same as 7448-035-933 | 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



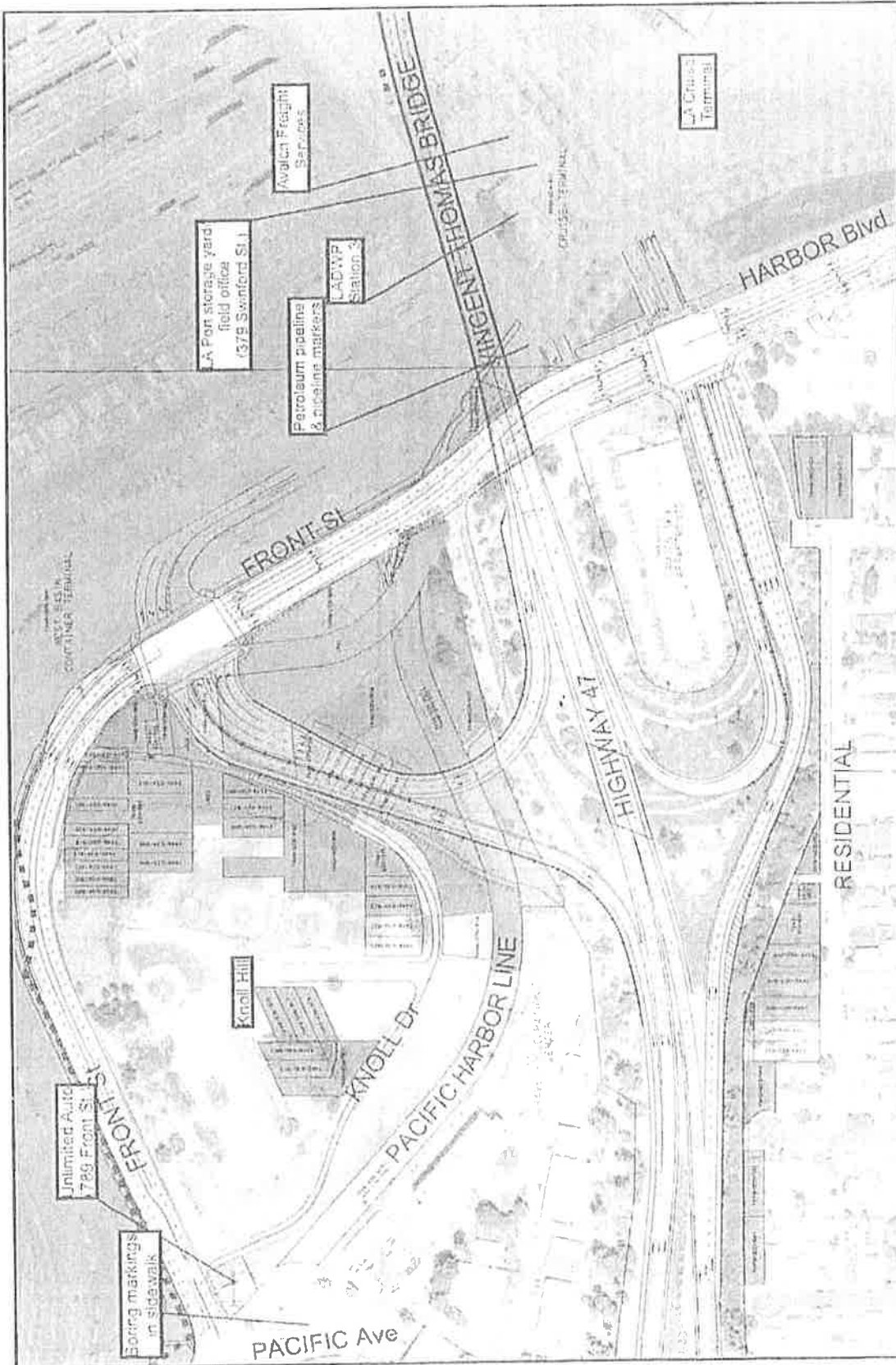
assess the potential presence of hazardous contaminants and to determine disposal options if necessary for any contaminated groundwater.

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



**Parcels Comprising the Project Area**

- LEGEND**
- Petroleum Pipeline Corridor
  - ⊗ Former Oil & Gas Well
  - ▭ Parcels proposed to be dedicated in part or in whole to Caltrans as part of the proposed project

SR-47 Interchange Project  
Los Angeles, California

**FIGURE 3**

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

| PARCEL ID No. | IMPACT       | DISPLAC EMBT | NAME-OTHER INFO. | STREET ADDRESS   | CITY        | AIM          | ACRES   | Specific Land Use  | Risk |
|---------------|--------------|--------------|------------------|--|-------------|--------------|---------|--|------|
| 1             | Partial Take |              | Crude Terminal   | 210 E SWINFORD ST<br>379 E SWINFORD ST<br>385 E SWINFORD ST<br>470 E SWINFORD ST | LOS ANGELES | 744D-024-911 | 82.6500 | <p>A review of the City of Los Angeles and County Assessor website revealed that Parcel 11, consisting of the western portion of APN 7449-024-911 along Harbor Boulevard. Based on a review of on-line maps and photographs, APN 7449-024-911 consists of land east of North Front Street/Harbor Boulevard, and adjacent to the north and south of SR-47, within the Port of Los Angeles. The parcel addresses were not identified in the EDR Report; however, several EDR listings were identified in the area of the parcel, which are associated with the historical use of the area and the Port of Los Angeles. Historically, Van Dine's Service Station (EDR ID #5) at 650 North Harbor Boulevard was located to the west of the project area, on APN 7449-025-904. This address was identified in the EDR Historical Auto Stations Atlas base as an automobile service station for the year 1924. A gasoline station was also depicted on the 1921 and 1950 Southern Maps of this address, which would have been located along the east side of Harbor Boulevard, just to south of the current location of SR-47. The Port of Los Angeles - Todd Shipyard located at 100 Pagan (EDR ID#41) was identified in the SUC database and the former Chevron Marine Terminal at 1510 Swinford Street (EDR ID# 17) was also identified in the SUC database. According to the EDR Report, the status of SUC base for the Port of Los Angeles - Todd Shipyard is "Open-Inactive as of 6/24/2014". The potential contaminants of concern (COC) are chromium, copper, lead, and mercury-affecting soil. The LARWQCB is the lead agency on this case. According to the online Geotitles database, in November 1998, the Port of Los Angeles took samples of stockpiles containing dredged sediment from the West Basin Entrance Widening Project. The work was done to assess the nature and extent of potential contamination in the dredged sediments. The results of the sampling indicated that chromium, copper, lead and mercury in soil did not exceed California SUC limits set by the former Chevron Marine Terminal (CMT) is listed as "Open-Assessment &amp; Interim Remedial Action as of 9/30/2010". The CMT operated for approximately 76 years. Facilities included 20 large aboveground fuel storage tanks, associated aboveground and underground piping and buildings. Primary operations at the CMT included fueling ships with bunker fuel and filling tanker trucks with lubricants and other petroleum products (McIntire/Hart, 1994). The former CMT property previously occupied the part of LA-38-18197 and 102. The former CMT was demolished between 1991 and 1993. Due to the widening of the adjacent turning basin, approximately 9 acres of the north-western portion of the CMT were removed to a depth of approximately 45 feet below the mean lower low water (MLLW) level. Consequently, the property was reconfigured to its current layout, occupying what is now called Berth 160. The CMT is located on the adjacent property to the south (Berth 56). Environmental investigations performed at both the former CMT and CCF sites indicate that the contaminants plume originating at the former CMT extends into the adjacent CCF property. The major COCs are petroleum hydrocarbons in soils and groundwaters. Additional subsurface investigations are ongoing to completely delineate impacts. Measurable non-aqueous phase liquid (NAPL) was detected on October 10, 2006 in one of the groundwater monitoring wells, MW-3. Recovery activity using pumps was performed from January to April 2007. From May 2007 to the present, oil-absorbent socks (i.e., SorbSax or equivalent) have been used in well MW-03 in order to recover NAPL. Currently, the socks are removed and replaced once a week. The LARWQCB is the lead agency on this case. Based on regulatory case status and on-going remediation, the SUC listings are expected to create an environmental concern for the project area.</p> |      |



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

|    |                              |   |  |                       |             |              |        |  |     |
|----|------------------------------|---|--|-----------------------|-------------|--------------|--------|--|-----|
| 8  | Partial Take,<br>TEE Grading | Y | Knoll Hill, NE   | 733 N FRONT ST        | LOS ANGELES | 744B-034-916 | 0.0630 | A review of the County Assessor and Navigata website revealed that Parcel #8 consists of APN 744B-034-916 with the associated address of 733 North Front Street. Based on a review of on-line maps and photographs, Parcel #8 consists of a portion of undeveloped land associated with Knoll Hill Park located south of Front Street and north of Knoll Drive. The address associated with this parcel was not identified in the EDR Report.                | Low |
| 9  | TEE Grading                  | Y | Knoll Hill, NE   | 745 N FRONT ST        | LOS ANGELES | 744B-034-918 | 0.0730 | A review of the County Assessor and Navigata website revealed that Parcel #9 consists of APN 744B-034-918 with the associated address of 745 North Front Street. Based on a review of on-line maps and photographs, Parcel #9 consists of a portion of undeveloped land associated with Knoll Hill Park located south of Front Street and north of Knoll Drive. The address associated with this parcel was not identified in the EDR Report.                | Low |
| 10 | TEE Grading                  | N | Knoll Hill, NE   | 743 N FRONT ST        | LOS ANGELES | 744B-034-919 | 0.0730 | A review of the County Assessor and Navigata website revealed that Parcel #10 consists of APN 744B-034-919 with the associated address of 743 North Front Street. Based on a review of on-line maps and photographs, Parcel #10 consists of a portion of undeveloped land associated with Knoll Hill Park located south of Front Street and north of Knoll Drive. The address associated with this parcel was not identified in the EDR Report.              | Low |
| 11 | Partial Take,<br>TEE Grading | N | Knoll Hill, NE   | 741 N FRONT ST        | LOS ANGELES | 744B-034-920 | 0.0730 | A review of the County Assessor and Navigata website revealed that Parcel #11 consists of APN 744B-034-920 with the associated address of 741 North Front Street. Based on a review of on-line maps and photographs, Parcel #11 consists of a portion of undeveloped land associated with Knoll Hill Park located south of Front Street and north of Knoll Drive. The address associated with this parcel was not identified in the EDR Report.              | Low |
| 12 | Partial Take,<br>TEE Grading | N | Knoll Hill, NE   | 735 N FRONT ST        | LOS ANGELES | 744B-034-921 | 0.0700 | A review of the County Assessor and Navigata website revealed that Parcel #12 consists of APN 744B-034-921 with the associated address of 735 North Front Street. Based on a review of on-line maps and photographs, Parcel #12 consists of a portion of undeveloped land associated with Knoll Hill Park located south of Front Street and north of Knoll Drive. The address associated with this parcel was not identified in the EDR Report.              | Low |
| 13 | Partial Take                 | Y | Knoll Hill, NE   | No address associated |             | 744B-034-923 | 0.0530 | A review of the County Assessor and Navigata website revealed that Parcel #13 consists of APN 744B-034-923 with an associated address of 744B-034-923. Based on a review of on-line maps and photographs, Parcel #13 consists of a portion of undeveloped land associated with Knoll Hill Park located south of Front Street and north of Knoll Drive. No EDR listings were identified associated with this parcel.  | Low |
|    | Partial Take                 |   | Knoll Hill, NE   | No address associated |             | 744B-034-926 | 0.0600 | A review of the County Assessor and Navigata website revealed that Parcel #14 consists of APN 744B-034-926 with no associated address. Based on a review of on-line maps and photographs, Parcel #14 consists of a portion of undeveloped land associated with Knoll Hill Park located south of Front Street and north of Knoll Drive. No EDR listings were identified associated with this parcel.  | Low |
|    | Partial Take                 | N | Knoll Hill, NE   | 733 N FRONT ST        | LOS ANGELES | 744B-034-927 | 0.0600 | A review of the County Assessor and Navigata website revealed that Parcel #15 consists of APN 744B-034-927 with the associated address of 733 North Front Street. Based on a review of on-line maps and photographs, Parcel #15 consists of a portion of undeveloped land associated with Knoll Hill Park located south of Front Street and north of Knoll Drive. The address associated with this parcel was not identified in the EDR Report.              | Low |
| 16 | TEE Grading                  | N | Knoll Hill, NE   | 250 W KNOLL DR        | LOS ANGELES | 744B-035-901 | 0.0760 | A review of the County Assessor and Navigata website revealed that Parcel #16 consists of APN 744B-035-901 with the associated address of 250 West Knoll Drive. Based on a review of on-line maps and photographs, Parcel #16 consists of a portion of undeveloped land associated with Knoll Hill Park located south of Front Street and adjacent to the west of Knoll Drive. The address associated with this parcel was not identified in the EDR Report. | Low |
| 17 | Partial Take<br>TEE          | N | US Port, Police<br>Commercial Truck<br>Inspection Facility | 705 N FRONT ST        | LOS ANGELES | 744B-035-505 | 0.6600 | A review of the County Assessor and Navigata website revealed that Parcel #17 consists of APN 744B-035-505 with the associated address of 705 North Front Street. Based on a review of on-line maps and photographs, Parcel #17 consists of an area located adjacent to the west of Front Street and south of Knoll Drive. The address associated with this parcel was not identified in the EDR Report.   | Low |

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

|    |                  |   |   |  |             |              |        |  |     |
|----|------------------|---|---|--|-------------|--------------|--------|--|-----|
| 18 | Parcel Take, ECE | N | Knoll Hill, SE<br>Park, Multiple Properties on Knoll Hill             | 705 N FRONT ST<br>287 W KNOLL DR<br>295 W KNOLL DR<br>295 W KNOLL DR<br>307 W KNOLL DR<br>311 W KNOLL DR<br>317 W KNOLL DR<br>319 W KNOLL DR | LOS ANGELES | 7448-035-906 | 0.5895 | A review of the County Assessor and NavigataLA website revealed that Parcel #18 consists of APN 7448-035-906 with the associated addresses of 705 North Front Street, and 287, 295, 307, 311, 317, and 319 West Knoll Drive. Based on a review of on-line maps and photographs, Parcel #18 consists of a portion of undeveloped land associated with Knoll Hill Park located south of Front Street and north of Knoll Drive and an asphalt paved lot located adjacent to the west of Front Street and south of Knoll Drive. The addresses associated with this parcel were not identified in the EDR Report. | Low |
| 19 | Parcel Take      | N | Sewer Pump Station and area between railroad right-of-way and freeway | 675 N FRONT ST<br>703 N FRONT ST   | LOS ANGELES | 7448-035-907 | 1.0983 | A review of the County Assessor and NavigataLA website revealed that Parcel #19 consists of APN 7448-035-907 with the associated addresses of 703 and 675 North Front Street. Based on a review of on-line maps and photographs, Parcel #19 consists of a portion of undeveloped and undeveloped located adjacent to the south of the Pacific Harbor Line right-of-way and north of the on-ramps to SR-47 North. The addresses associated with this parcel were not identified in the EDR Report.  | Low |
| 20 | Parcel Take      | N | Knoll Hill, SE, Multiple properties                                   | 270 W KNOLL DR<br>274 W KNOLL DR<br>280 W KNOLL DR   | LOS ANGELES | 7448-035-908 | 0.3633 | A review of the County Assessor and NavigataLA website revealed that Parcel #20 consists of APN 7448-035-908 with the associated addresses of 270, 274, and 280 West Knoll Drive. Based on a review of on-line maps and photographs, Parcel #20 consists of a portion of one of the baseball fields associated with Knoll Hill Park located south of Front Street and west of Knoll Drive. The addresses associated with this parcel were not identified in the EDR Report.  | Low |
| 21 | Parcel Take      | N | Knoll Hill, SE below Knoll Dr.  | 281 W KNOLL DR   | LOS ANGELES | 7448-035-913 | 0.1100 | A review of the County Assessor and NavigataLA website revealed that Parcel #21 consists of APN 7448-035-913 with the associated address of 281 West Knoll Drive. Based on a review of on-line maps and photographs, Parcel #21 consists of a portion of land associated with Knoll Hill Dog Park located west of Front Street and east of Knoll Drive. The address associated with this parcel was not identified in the EDR Report.  | Low |
| 22 | Parcel Take      | N | Knoll Hill, SE below Knoll Dr.  | 275 W KNOLL DR   | LOS ANGELES | 7448-035-914 | 0.1100 | A review of the County Assessor and NavigataLA website revealed that Parcel #22 consists of APN 7448-035-914 with the associated address of 275 West Knoll Drive. Based on a review of on-line maps and photographs, Parcel #22 consists of a portion of land associated with Knoll Hill Dog Park located west of Front Street and east of Knoll Drive. The address associated with this parcel was not identified in the EDR Report.  | Low |
| 23 | Name             | N | Knoll Hill, SE  | 300 W KNOLL DR   | LOS ANGELES | 7448-035-915 | 0.1100 | A review of the County Assessor and NavigataLA website revealed that Parcel #23 consists of APN 7448-035-915 with the associated address of 300 West Knoll Drive. Based on a review of on-line maps and photographs, Parcel #23 consists of a portion of the land associated with Knoll Hill Park located south of Front Street and west of Knoll Drive. The address associated with this parcel was not identified in the EDR Report.   | Low |
| 24 | Name             | N | Knoll Hill, SE below Knoll Dr.  | 325 W KNOLL DR<br>325 W KNOLL DR<br>333 W KNOLL DR   | LOS ANGELES | 7448-035-918 | 0.5930 | A review of the County Assessor and NavigataLA website revealed that Parcel #24 consists of APN 7448-035-918 with the associated addresses of 325, 325, and 333 West Knoll Drive. Based on a review of on-line maps and photographs, Parcel #24 consists of undeveloped land located south of Knoll Drive and north of the Pacific Harbor Line right-of-way. The addresses associated with this parcel were not identified in the EDR Report.  | Low |
| 25 | Name             | N | Knoll Hill, SE  | 730 N CENTER ST<br>741 N CENTER ST   | LOS ANGELES | 7448-035-920 | 0.1030 | A review of the County Assessor and NavigataLA website revealed that Parcel #25 consists of APN 7448-035-920 with the associated addresses of 730 and 742 North Center Street. Based on a review of on-line maps and photographs, Parcel #25 consists of land associated with Knoll Hill Park located north of Knoll Drive and east of Center Street. The addresses associated with this parcel were not identified in the EDR Report.   | Low |
| 26 | Parcel Take      | N | Knoll Hill, SE  | 237 W VIEWLAND PL  | LOS ANGELES | 7448-035-921 | 0.1100 | A review of the County Assessor and NavigataLA website revealed that Parcel #26 consists of APN 7448-035-921 with the associated address of 237 West Viewland Place. Based on a review of on-line maps and photographs, Parcel #26 consists of a portion of land associated with Knoll Hill Park located south of Front Street and west of Knoll Drive. The address associated with this parcel was not identified in the EDR Report.  | Low |
| 27 | Name             | N | Knoll Hill, SE  | 320 W KNOLL DR   | LOS ANGELES | 7448-035-922 | 0.3140 | A review of the County Assessor and NavigataLA website revealed that Parcel #27 consists of APN 7448-035-922 with the associated address of 320 West Knoll Drive. Based on a review of on-line maps and photographs, Parcel #27 consists of land associated with Knoll Hill Park located north of Knoll Drive and east of Center Street. The address associated with this parcel was not identified in the EDR Report.   | Low |

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

|    |   |   |   |  |             |              |        |  |     |
|----|---|---|---|--|-------------|--------------|--------|--|-----|
| 28 | Y | N | Knoll Hill, S   | 316 W KNOLL DR   | LOS ANGELES | 7448-035-923 | 0.0951 | A review of the County Assessor and NavigataLA website revealed that Parcel 928 consists of APN 7448-035-923 south of the associated address of 320 West Knoll Drive. Based on a review of on-line maps and photographs, Parcel 928 consists of land associated with Knoll Hill Park located north of Knoll Drive and east of Center Street. The address associated with this parcel was not identified in the EDR Report.                               | Low |
| 29 | N | Y | Knoll Hill, S   | 308 W KNOLL DR   | LOS ANGELES | 7448-035-924 | 0.0922 | A review of the County Assessor and NavigataLA website revealed that Parcel 929 consists of APN 7448-035-924 with the associated address of 320 West Knoll Drive. Based on a review of on-line maps and photographs, Parcel 929 consists of land associated with Knoll Hill Park located north of Knoll Drive and east of Center Street. The address associated with this parcel was not identified in the EDR Report.                                   | Low |
| 30 | Y | Y | Knoll Hill, E below Knoll Dr                                    | 261 W KNOLL DR   | LOS ANGELES | 7448-035-925 | 0.1101 | A review of the County Assessor website revealed that Parcel 930 consists of APN 7448-035-925. Based on a review of on-line maps and photographs, Parcel 930 consists of a portion of a grass field and service road associated with Knoll Hill Dog Park at 713 North Front Street, located adjacent to the east of Knoll Drive, west of Front Street, and north of SR-47. The address associated with this parcel was not identified in the EDR Report. | Low |
| 31 | Y | Y | Knoll Hill, E below Knoll Dr                                    | 255 W KNOLL DR   | LOS ANGELES | 7448-035-926 | 0.1240 | A review of the County Assessor website revealed that Parcel 931 consists of APN 7448-035-926. Based on a review of on-line maps and photographs, Parcel 931 consists of a portion of a grass field associated with Knoll Hill Dog Park at 711 North Front Street, located adjacent to the east of Knoll Drive, west of Front Street, and north of SR-47. The address associated with this parcel was not identified in the EDR Report.                  | Low |
| 32 | Y | N | Pacific Harbor Line right-of-way, E, same as 7448-035-932       | No address associated  | LOS ANGELES | 7448-035-927 | 0.5150 | A review of the County Assessor website revealed that Parcel 932 consists of APN 7448-035-927 located north of SR-47, south of Knoll Hill Park located west of Knoll Drive and south of Front Street. The address associated with this parcel was not identified in the EDR Report.  | Low |
| 33 | Y | Y | Knoll Hill, E, multiple properties                              | 255 W VIEWLAND PL  | LOS ANGELES | 7448-035-930 | 0.2796 | A review of the County Assessor and NavigataLA website revealed that Parcel 933 consists of APN 7448-035-930 with the associated address of 255 West Viewland Place. Based on a review of on-line maps and photographs, Parcel 933 consists of land associated with Knoll Hill Park located west of Knoll Drive and south of Front Street. The address associated with this parcel was not identified in the EDR Report.                                 | Low |
| 34 | Y | N | Pacific Harbor Line, Line right-of-way, E, same as 7448-035-927 | No address associated  | LOS ANGELES | 7448-035-932 | 0.5150 | A review of the County Assessor website revealed that Parcel 934 consists of APN 7448-035-932. Based on a review of on-line maps and photographs, Parcel 934 consists of a portion of the Pacific Harbor Line Railroad right-of-way located adjacent to the south of Knoll Drive, west of Front Street, and north of SR-47. The railroad right-of-way is not currently in use. No EDR listings were identified associated with this parcel.              | Low |
| 35 | Y | Y | Knoll Hill, SE below Knoll Dr                                   | 267 W KNOLL DR   | LOS ANGELES | 7448-035-935 | 0.1102 | A review of the County Assessor website revealed that Parcel 935 consists of APN 7448-035-935. Based on a review of on-line maps and photographs, Parcel 935 consists of a portion of a grass field and service road associated with Knoll Hill Dog Park at 713 North Front Street, located adjacent to the east of Knoll Drive, west of Front Street, and north of SR-47. The address associated with this parcel was not identified in the EDR Report. | Low |
| 36 | Y | Y | Knoll Hill, E below Knoll Dr, at view intersection              | 219 W KNOLL DR<br>711 N FRONT ST<br>221 W KNOLL DR<br>707 N FRONT ST<br>229 W KNOLL DR<br>255 W KNOLL DR<br>701 N FRONT ST<br>241 W KNOLL DR<br>267 W KNOLL DR | LOS ANGELES | 7448-035-936 | 0.0900 | A review of the County Assessor website revealed that Parcel 936 consists of APN 7448-035-936. Based on a review of on-line maps and photographs, Parcel 936 consists of a portion of a grass field and service road associated with Knoll Hill Dog Park at 713 North Front Street, located adjacent to the east of Knoll Drive, west of Front Street, and north of SR-47. The address associated with this parcel was not identified in the EDR Report. | Low |
| 37 | Y | N | Pacific Harbor Line, W below SR-47                              | No address associated  | LOS ANGELES | 7448-035-939 | 0.5000 | A review of the County Assessor website revealed that Parcel 937 consists of APN 7448-035-939. Based on a review of on-line maps and photographs, Parcel 937 consists of a portion of the Pacific Harbor Line right-of-way located adjacent to the south of Knoll Drive, east of Pacific Avenue, and north of SR-47. The railroad right-of-way is not currently in use. No EDR listings were identified associated with this parcel.                     | Low |

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

| EDR ID | EDR Type     | EDR Status | EDR Location  | EDR Address           | EDR City    | EDR Parcel ID | EDR Area | EDR Description  |
|--------|--------------|------------|---|-----------------------|-------------|---------------|----------|--|
| 33     | None         | N          | Pacific Harbor Line Right-of-way, West side at 7448-036-915 | No address associated | LOS ANGELES | 7448-036-926  | 0.5000   | A review of the County Assessor website revealed that Parcel #38 consists of APN 7448-036-926, which is the address. Based on a review of on-line maps and photographs, Parcel #38 consists of a portion of undeveloped land located adjacent to the south of Knoll Hill, east of Pacific Avenue, and north of SR-47. The railroad right-of-way is not currently in any of the listings were identified associated with this parcel.                     |
| 39     | None         | N          | Summit Sea Apartments                                       | 661 N HARBOR BLVD     | LOS ANGELES | 7449-005-010  | 2.6100   | A review of the County Assessor website revealed that Parcel #39 consists of APN 7449-005-010. Based on a review of on-line maps and photographs, Parcel #39 consists of a multi-family residential property (Summit Sea Apartments) located adjacent to the south of SR-47. The address associated with this parcel was not identified in the EDR Report.   |
| 40     | TCE          | N          | Knoll Hill NE   | 749 N FRONT ST        | LOS ANGELES | 7448-034-902  | 0.0724   | A review of the County Assessor website revealed that Parcel #40 consists of APN 7448-034-902 with the associated address of 749 North Front Street. Based on a review of on-line maps and photographs, Parcel #40 consists of a portion of undeveloped land associated with Knoll Hill Park located south of Front Street and north of Knoll Drive. The address associated with this parcel was not identified in the EDR Report.                       |
| 41     | TCE          | N          | Knoll Hill NE   | 248 W VIEWLAND PL     | LOS ANGELES | 7448-034-928  | 0.1148   | A review of the County Assessor website revealed that Parcel #41 consists of APN 7448-034-928 with the associated addresses of 248 West Viewland Place. Based on a review of on-line maps and photographs, Parcel #41 consists of a portion of undeveloped land associated with Knoll Hill Park located south of Front Street and north of Knoll Drive. The addresses associated with this parcel were not identified in the EDR Report.                 |
| 42     | TCE          | N          | Knoll Hill NE   | 254 W VIEWLAND PL     | LOS ANGELES | 7448-034-909  | 0.1146   | A review of the County Assessor website revealed that Parcel #42 consists of APN 7448-034-909 with the associated addresses of 254 West Viewland Place. Based on a review of on-line maps and photographs, Parcel #42 consists of a portion of undeveloped land associated with Knoll Hill Park located south of Front Street and north of Knoll Drive. The address associated with this parcel was not identified in the EDR Report.                    |
| 43     | TCE          | N          | Knoll Hill NE   | 747 N FRONT ST        | LOS ANGELES | 7448-034-917  | 0.0725   | A review of the County Assessor website revealed that Parcel #43 consists of APN 7448-034-917 with the associated addresses of 747 North Front Street. Based on a review of on-line maps and photographs, Parcel #43 consists of a portion of undeveloped land associated with Knoll Hill Park located south of Front Street and north of Knoll Drive. The addresses associated with this parcel were not identified in the EDR Report.                  |
| 44     | TCE          | N          | Knoll Hill NE   | 751 N FRONT ST        | LOS ANGELES | 7448-034-925  | 0.0724   | A review of the County Assessor website revealed that Parcel #44 consists of APN 7448-034-925 with the associated addresses of 751 North Front Street. Based on a review of on-line maps and photographs, Parcel #44 consists of a portion of undeveloped land associated with Knoll Hill Park located south of Front Street and north of Knoll Drive. The address associated with this parcel was not identified in the EDR Report.                     |
| 45     | Partial Take | N          | Pacific Harbor Line Right-of-way, West side at 7448-035-933 | No address associated | LOS ANGELES | 7448-035-928  | 0.0837   | A review of the County Assessor website revealed that Parcel #45 consists of APN 7448-035-928 (same as APN 7448-035-933 - see below) adjacent to the west of Front Street, south of the dog park entrance, and north of SR-47. The railroad right-of-way is not currently in any of the listings were identified associated with this parcel.  |
| 46     | TCE          | N          | Knoll Hill NE   | 745 W VIEWLAND PL     | LOS ANGELES | 7448-035-900  | 0.1102   | A review of the County Assessor website revealed that Parcel #46 consists of APN 7448-035-900 with the associated address of 745 West Viewland Place. Based on a review of on-line maps and photographs, Parcel #46 consists of a portion of land associated with Knoll Hill Park located south of Front Street and west of Knoll Drive. The address associated with this parcel was not identified in the EDR Report.                                   |
| 47     | TCE          | N          | Knoll Hill NE   | 323 W VIEWLAND PL     | LOS ANGELES | 7448-036-003  | 0.1008   | A review of the County Assessor website revealed that Parcel #47 consists of APN 7448-036-003 with the associated address of 323 West Viewland Place. Based on a review of on-line maps and photographs, Parcel #47 consists of a single family residential structure on Knoll Hill Park located south of Viewland Place, north of Knoll Drive, and west of Center Street. The address associated with this parcel was not identified in the EDR Report. |
| 48     | Partial Take | N          | Adjacent to property on Knoll Hill                          | 333 W VIEWLAND PL     | LOS ANGELES | 7448-036-501  | 0.2479   | A review of the County Assessor website revealed that Parcel #48 consists of APN 7448-036-501 with the associated address of 333 West Viewland Place. Based on a review of on-line maps and photographs, Parcel #48 consists of a portion of land associated with Knoll Hill Park located south of Viewland Place, west of Center Street, and north of Knoll Drive. The address associated with this parcel was not identified in the EDR Report.        |

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

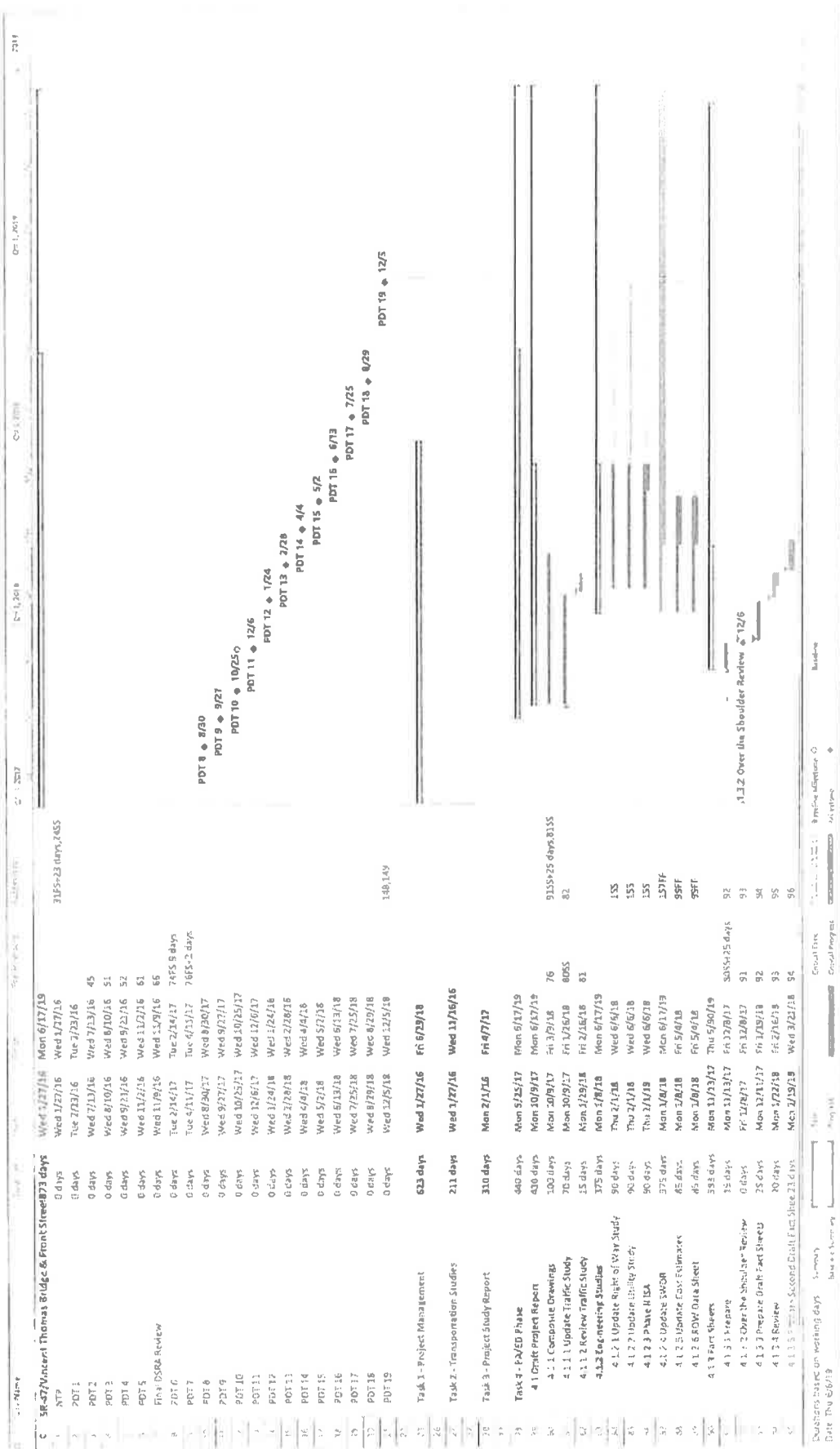
|    |              |   |                                    |                         |             |              |        |   |     |
|----|--------------|---|------------------------------------|-------------------------|-------------|--------------|--------|---|-----|
| 45 | Partial Take | N | Adjacent to property on Knoll Hill | 721 N CENTER ST         | LOS ANGELES | 7448-036-910 | 0.1007 | A review of the County Assessor website revealed that Parcel #45 consists of APN 7448-036-910 with the associated address of 721 N Center Street. Based on a review of on-line maps and photographs, Parcel #45 consists of a portion of land associated with Knoll Hill located south of Viewland Place, west of Center Street, and north of Knoll Drive. The address associated with this parcel was not identified in the EDR Report.  | Low |
| 46 | Partial Take | N | Adjacent to property on Knoll Hill | 327 W VIEWLAND PL       | LOS ANGELES | 7448-036-912 | 0.1006 | A review of the County Assessor website revealed that Parcel #46 consists of APN 7448-036-912 with the associated address of 327 W Viewland Place. Based on a review of on-line maps and photographs, Parcel #46 consists of a portion of land associated with Knoll Hill located south of Viewland Place, west of Center Street, and north of Knoll Drive. The address associated with this parcel was not identified in the EDR Report. | Low |
| 51 | Partial Take | N | Adjacent to property on Knoll Hill | 767 N CENTER ST         | LOS ANGELES | 7448-036-917 | 0.1007 | A review of the County Assessor website revealed that Parcel #51 consists of APN 7448-036-917 with the associated address of 767 N Center Street. Based on a review of on-line maps and photographs, Parcel #51 consists of a portion of land associated with Knoll Hill located south of Viewland Place, west of Center Street, and north of Knoll Drive. The address associated with this parcel was not identified in the EDR Report.  | Low |
| 52 | Partial Take | N | Adjacent to property on Knoll Hill | 763 N CENTER ST         | LOS ANGELES | 7448-036-918 | 0.1007 | A review of the County Assessor website revealed that Parcel #52 consists of APN 7448-036-918 with the associated address of 763 N Center Street. Based on a review of on-line maps and photographs, Parcel #52 consists of a portion of land associated with Knoll Hill located south of Viewland Place, west of Center Street, and north of Knoll Drive. The address associated with this parcel was not identified in the EDR Report.  | Low |
| 53 | TCE          | N | Residence above EB ramps           | 572 HARBER ST           | LOS ANGELES | 7449-003-003 | 0.1247 | A review of the County Assessor website revealed that Parcel #53 consists of APN 7449-003-003 with the associated address of 572 Harber Street. Based on a review of on-line maps and photographs, Parcel #53 consists of a single family residential structure on the hill located south of SR-47 and east of Harber Street. The address associated with this parcel was not identified in the EDR Report.                               | Low |
| 54 | TCE          | N | Residence above EB ramps           | 623 N MESA ST           | LOS ANGELES | 7449-003-022 | 0.1248 | A review of the County Assessor website revealed that Parcel #54 consists of APN 7449-003-022 with the associated address of 623 N Mesa Street. Based on a review of on-line maps and photographs, Parcel #54 consists of a single family residential structure on the hill located south of SR-47 and west of Mesa Street. The address associated with this parcel was not identified in the EDR Report.                                 | Low |
| 55 | TCE          | N | Residence above EB ramps           | 616 N MESA ST           | LOS ANGELES | 7449-003-044 | 0.1572 | A review of the County Assessor website revealed that Parcel #55 consists of APN 7449-003-044 with the associated address of 616 N Mesa Street. Based on a review of on-line maps and photographs, Parcel #55 consists of a single family residential structure on the hill located south of SR-47 and east of Mesa Street. The address associated with this parcel was not identified in the EDR Report.                                 | Low |
| 56 | TCE          | N | Residence above EB ramps           | No 749 Hous. associated | LOS ANGELES | 7449-003-039 | 0.0290 | A review of the County Assessor website revealed that Parcel #56 consists of APN 7449-003-039 with no associated address. Based on a review of on-line maps and photographs, Parcel #56 consists of a plot of land between the single family residences north of Amar Street, south of SR-47 and east of Mesa Street. The address associated with this parcel was not identified in the EDR Report.                                       | Low |
| 57 | TCE          | N | Residence above EB ramps           | 364 W AMAR ST           | LOS ANGELES | 7449-003-020 | 0.1478 | A review of the County Assessor website revealed that Parcel #57 consists of APN 7449-003-020 with the associated address of 364 W Amar Street. Based on a review of on-line maps and photographs, Parcel #57 consists of a single family residential structure on the hill located south of SR-47, north of Amar Street and east of Mesa Street. The address associated with this parcel was not identified in the EDR Report.           | Low |
| 58 | TCE          | N | Residence above EB ramps           | 352 W AMAR ST           | LOS ANGELES | 7449-003-019 | 0.1784 | A review of the County Assessor website revealed that Parcel #58 consists of APN 7449-003-019 with the associated address of 352 W Amar Street. Based on a review of on-line maps and photographs, Parcel #58 consists of a single family residential structure on the hill located south of SR-47, north of Amar Street and east of Mesa Street. The address associated with this parcel was not identified in the EDR Report.           | Low |
| 59 | TCE          | N | Residence above EB ramps           | 340 W AMAR ST           | LOS ANGELES | 7449-003-048 | 0.1124 | A review of the County Assessor website revealed that Parcel #59 consists of APN 7449-003-048 with the associated address of 340 W Amar Street. Based on a review of on-line maps and photographs, Parcel #59 consists of a single family residential structure on the hill located south of SR-47, north of Amar Street and east of Mesa Street. The address associated with this parcel was not identified in the EDR Report.           | Low |

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

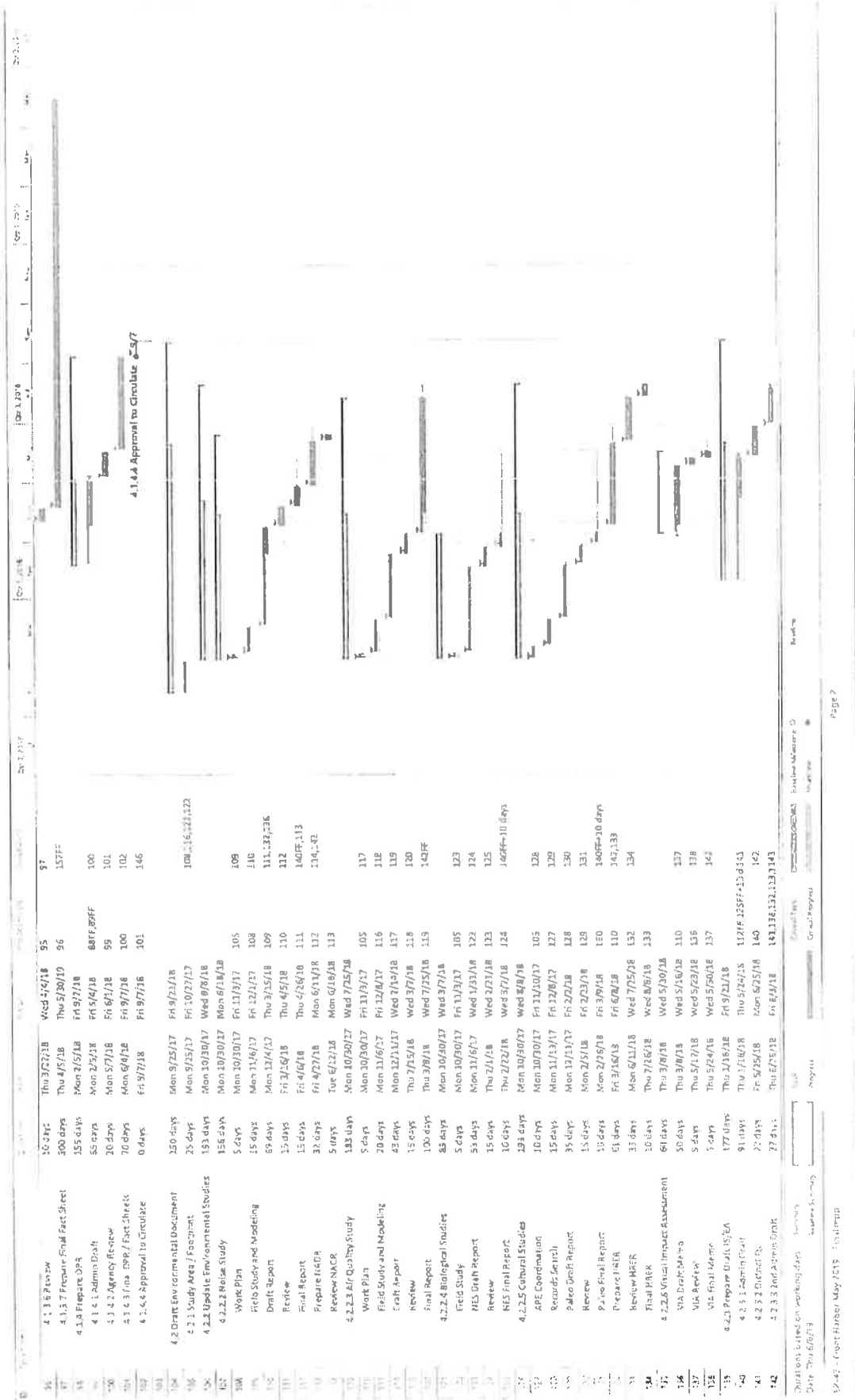
|    |              |   |                          |                       |             |              |        |   |     |
|----|--------------|---|--------------------------|-----------------------|-------------|--------------|--------|---|-----|
| 60 | TCE          | N | Residence above EB ramps | 324 W AMAR ST         | LOS ANGELES | 7449-003-051 | 0.1643 | A review of the County Assessor website revealed that Parcel #60 consists of APN 7449-003-051 with the associated address of 324 Amar Street. Based on a review of on-line maps and photographs, Parcel #60 consists of a single family residential structure on the hill located south of SR-47, north of Amar Street and east of Mesa Street. The address associated with this parcel was not identified in the EDR Report.                               | Low |
| 61 | TCE          | N | Residence above EB ramps | 318 W AMAR ST         | LOS ANGELES | 7449-003-053 | 0.0622 | A review of the County Assessor website revealed that Parcel #61 consists of APN 7449-003-053 with the associated address of 318 Amar Street. Based on a review of on-line maps and photographs, Parcel #61 consists of a single family residential structure on the hill located south of SR-47, north of Amar Street and east of Mesa Street. The address associated with this parcel was not identified in the EDR Report.                               | Low |
| 62 | TCE          | N | Residence above EB ramps | 314 W AMAR ST         | LOS ANGELES | 7449-003-052 | 0.0722 | A review of the County Assessor website revealed that Parcel #62 consists of APN 7449-003-052 with the associated address of 314 Amar Street. Based on a review of on-line maps and photographs, Parcel #62 consists of a single family residential structure on the hill located south of SR-47, north of Amar Street and east of Mesa Street. The address associated with this parcel was not identified in the EDR Report.                               | Low |
| 63 | Partial Take | N | Residence above EB ramps | 606 N PALOS VERDES ST | LOS ANGELES | 7449-007-023 | 0.2233 | A review of the County Assessor website revealed that Parcel #63 consists of APN 7449-007-023 with the associated address of 606 N Palos Verdes Street. Based on a review of on-line maps and photographs, Parcel #63 consists of a single family residential structure on the hill located south 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. | Low |
| 64 | TCE          | N | Residence above EB ramps | 536 N PALOS VERDES ST | LOS ANGELES | 7449-007-012 | 0.1938 | A review of the County Assessor website revealed that Parcel #64 consists of APN 7449-007-012 with the associated address of 536 N Palos Verdes Street. Based on a review of on-line maps and photographs, Parcel #64 consists of a single family residential structure on the hill located south 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. | Low |

**Attachment M**  
**Project Schedule**

SR-47 Viaduct, Thomas Bridge & Front Street/Harbor Blvd Interchange Reconfiguration Project



SR-47/60-cent Thoman Bridge & Front Street/Hubbard Blvd Interchange Reconfiguration Project



SR-47/Intersect Thomas Bridge & Front Street/Intersect I-90 Interchange Reconfiguration Project



**Attachment N**

**Risk Register**

| LEVEL | PROJECT | PROJECT DESCRIPTION   | PROJECT NUMBER | PROJECT NAME | PROJECT LOCATION | PROJECT STATUS | PROJECT TYPE | PROJECT DATE | PROJECT VALUE | PROJECT RISK | PROJECT IMPACT | PROJECT COMMENTS | PROJECT ACTION | PROJECT DATE |
|-------|---------|---|----------------|--------------|------------------|----------------|--------------|--------------|---------------|--------------|----------------|------------------|----------------|--------------|
| 1     | SR-47   | Project Description: SR-47 (Alameda) Thomas Bridge and Huron Bypass | SR-47          | Alameda      | San Francisco    | SR-47          | SR-47        | SR-47        | SR-47         | SR-47        | SR-47          | SR-47            | SR-47          |              |
| 2     | SR-47   | Project Description: SR-47 (Alameda) Thomas Bridge and Huron Bypass | SR-47          | Alameda      | San Francisco    | SR-47          | SR-47        | SR-47        | SR-47         | SR-47        | SR-47          | SR-47            | SR-47          |              |
| 3     | SR-47   | Project Description: SR-47 (Alameda) Thomas Bridge and Huron Bypass | SR-47          | Alameda      | San Francisco    | SR-47          | SR-47        | SR-47        | SR-47         | SR-47        | SR-47          | SR-47            | SR-47          |              |
| 4     | SR-47   | Project Description: SR-47 (Alameda) Thomas Bridge and Huron Bypass | SR-47          | Alameda      | San Francisco    | SR-47          | SR-47        | SR-47        | SR-47         | SR-47        | SR-47          | SR-47            | SR-47          |              |
| 5     | SR-47   | Project Description: SR-47 (Alameda) Thomas Bridge and Huron Bypass | SR-47          | Alameda      | San Francisco    | SR-47          | SR-47        | SR-47        | SR-47         | SR-47        | SR-47          | SR-47            | SR-47          |              |
| 6     | SR-47   | Project Description: SR-47 (Alameda) Thomas Bridge and Huron Bypass | SR-47          | Alameda      | San Francisco    | SR-47          | SR-47        | SR-47        | SR-47         | SR-47        | SR-47          | SR-47            | SR-47          |              |
| 7     | SR-47   | Project Description: SR-47 (Alameda) Thomas Bridge and Huron Bypass | SR-47          | Alameda      | San Francisco    | SR-47          | SR-47        | SR-47        | SR-47         | SR-47        | SR-47          | SR-47            | SR-47          |              |
| 8     | SR-47   | Project Description: SR-47 (Alameda) Thomas Bridge and Huron Bypass | SR-47          | Alameda      | San Francisco    | SR-47          | SR-47        | SR-47        | SR-47         | SR-47        | SR-47          | SR-47            | SR-47          |              |
| 9     | SR-47   | Project Description: SR-47 (Alameda) Thomas Bridge and Huron Bypass | SR-47          | Alameda      | San Francisco    | SR-47          | SR-47        | SR-47        | SR-47         | SR-47        | SR-47          | SR-47            | SR-47          |              |
| 10    | SR-47   | Project Description: SR-47 (Alameda) Thomas Bridge and Huron Bypass | SR-47          | Alameda      | San Francisco    | SR-47          | SR-47        | SR-47        | SR-47         | SR-47        | SR-47          | SR-47            | SR-47          |              |

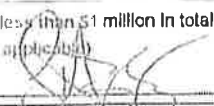



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

**RISK REGISTER CERTIFICATION (ACCOUNTABILITY CHECKPOINTS) FORM**

PPM-D07-0001 (REV 08/2018)

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.

|   |   |   |  |                                    |
|---|---|---|--|------------------------------------|
| <u>Project Information</u>  |   | <input checked="" type="checkbox"/> Capital Project | <input type="checkbox"/> Major Maintenance Project (Check One) | Total Estimated Cost: <u>\$41M</u> |
| Project ID/District-EA  | <u>318501</u>   |   |  |                                    |
| Project Description   | <u>SR 47/Vincent Thomas Bridge &amp; Front St./Harbor Blvd. Interchange Reconfig.</u> |   |  |                                    |
| Project Manager   | <u>Sarah Aziz</u>   |   |  |                                    |
| Project Risk Manager  | <u>Sarah Aziz</u>   |   |  |                                    |
| <input type="checkbox"/> No Risk Register Certification Required - - Check box if project is less 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 (as applicable) |   |   |  |                                    |
| Project Manager Signature   |      |   |  | Date: <u>5/14/19</u>               |
| <u>PID (Recommended for Capital Projects Only excluding Minor Projects)</u>   |   |   |  |                                    |
| Project Manager   | _____   |   |  | Date: _____                        |
| Deputy District Director, Planning  | _____   |   |  | Date: _____                        |
| Deputy District Director, Design  | _____   |   |  | Date: _____                        |
| Deputy District Director, Traffic Operations  | _____   |   |  | Date: _____                        |
| Deputy District Director, Maintenance   | _____   |   |  | Date: _____                        |
| Deputy District Director, Project Management  | _____   |   |  | Date: _____                        |
| <u>PA&amp;ED (Required for Capital Projects Only)</u>   |   |   |  |                                    |
| Project Manager   |     |   |  | Date: <u>5/14/19</u>               |
| 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: _____                        |
| <u>Prior to PS&amp;E (Required for Capital Projects and Major Maintenance Projects)</u>   |   |   |  |                                    |
| 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: _____                        |
| <u>RE File Hand-off (Recommended for Capital Projects and Major Maintenance Projects)</u>   |   |   |  |                                    |
| Project Manager   | _____   |   |  | Date: _____                        |
| Deputy District Director, Design  | _____   |   |  | Date: _____                        |
| Deputy District Director, Construction  | _____   |   |  | Date: _____                        |
| Deputy District Director, Traffic Operations  | _____   |   |  | Date: _____                        |
| Deputy District Director, Maintenance   | _____   |   |  | Date: _____                        |
| Deputy District Director, Project Management  | _____   |   |  | Date: _____                        |

**Attachment O**  
**Design Resource Worksheet**



