

**PR COST ESTIMATE  
I-80 Express Lanes (West Segment)**

District-County -Route: 04-SoI-80  
 PM: R10.4/21.12  
 EA: 04-4G0800  
 Program Code: 412000332

**Project Description:**

Limits: I-80 Express Lanes (West Segment) - Red Top Road to Air Base Parkway

**Proposed Improvements:** Convert the existing HOV lanes to Express lanes, install tolling equipment in the median, and retrofit CHP observation areas. Existing mainline and ramp lanes configuration will be maintained.

**SUMMARY OF PROJECT COST ESTIMATE**

	CURRENT VALUE <sup>1</sup>	ESCALATED <sup>2</sup>	ROUNDED
<b>ROADWAY IMPROVMENTS</b>			
ROADWAY ITEMS	\$23,290,000	\$24,708,361	\$24,700,000
STRUCTURE ITEMS	\$0	\$0	\$0
<i>SUBTOTAL CONSTRUCTION COST</i>	<i>\$23,290,000</i>	<i>\$24,708,361</i>	<i>\$24,700,000</i>
<i>RIGHT OF WAY ITEMS</i>	<i>\$80,000</i>	<i>\$89,000</i> <sup>3</sup>	<i>\$100,000</i>
<i>SUBTOTAL CONSTRUCTION PHASE</i>	<i>\$23,370,000</i>	<i>\$24,797,361</i>	<i>\$24,800,000</i>
<b>CAPITAL OUTLAY SUPPORT</b>			
ENGINEERING	\$3,200,000 <sup>5</sup>	\$3,200,000 *	\$3,200,000
RIGHT OF WAY SUPPORT	\$250,000	\$250,000 *	\$300,000
CONSTRUCTION SUPPORT (15% of Civil Construction Cost)	\$3,700,000 <sup>5</sup>	\$3,700,000 *	\$3,700,000
<i>SUBTOTAL CAPITAL OUTLAY SUPPORT</i>	<i>\$7,150,000</i>	<i>\$7,150,000</i> *	<i>\$7,200,000</i>
<b>TOTAL CAPITAL OUTLAY COSTS</b>	<b>\$30,520,000</b>	<b>\$31,947,361</b>	<b>\$32,000,000</b>
UTILITY SERVICE (POWER & COMMUNICATION)	\$512,000	\$592,704	\$600,000
TOLL SYSTEM CONSTRUCTION	\$8,282,504 <sup>4</sup>	\$9,050,516	\$9,100,000
<b>TOTAL PROJECT COSTS</b>	<b>\$39,314,504</b>	<b>\$41,590,581</b>	<b>\$41,700,000</b>

- <sup>1</sup> CURRENT VALUE REFLECTS 2015 DOLLARS
- <sup>2</sup> COSTS ARE ESCALATED TO 2017 DOLLARS AT 3%/YEAR
- <sup>3</sup> ROW COST IS ESCALATED TO 2017 DOLLARS AT 5%/YEAR
- <sup>4</sup> COST BY BAIFA COST INCLUDED 15% CONTINGENCY
- <sup>5</sup> COSTS DO NOT INCLUDE TOLL SYSTEM CONSTRUCTION COSTS
- \* SUPPORT COSTS ARE NOT ESCALATED

Reviewed by Admas Zewdie  
 District Program Manager (Signature)

Approved by Marilou R. Ayupan  
 (Signature)

408-453-5373  
 (Phone)

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**I. ROADWAY ITEMS**

	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
<u>Section 1 - Earthwork</u>					
Remove Base & Surfacing	3,050	CY	\$30	92,000	
				<u>Subtotal Earthwork</u>	<u>\$92,000</u>
<u>Section 2 - Structural Section</u>					
Hot Mix Asphalt (Type A)	1,731	TON	\$120	\$208,000	
Cement Treated Base (Class A)	1,538	CY	\$100	\$154,000	
Aggregate Subbase (Cl 4)	2,306	CY	\$70	\$161,000	
Cold Plane AC Pavement (.1' Max)	657	SY	\$6	\$4,000	
				<u>Subtotal Structural Section</u>	<u>\$527,000</u>
<u>Section 3 - Drainage</u>					
Project Drainage	1	LS	\$78,000	\$78,000	
				<u>Subtotal Drainage</u>	<u>\$78,000</u>
<u>Section 4 - Specialty Items</u>					
Retaining Walls					
Noise Barrier					
*Barriers and Guardrails	1	LS	\$2,613,000	\$2,613,000	
Equipment/Animal Passes					
Water Pollution Control	1	LS	\$363,340	\$363,000	
Hazardous Waste Investigation and/or Mitigation Work		LS			
Environmental Mitigation					
Resident Engineer Office Space					(See Section 11)
Removal Items	1	LS	\$236,868	\$237,000	
				<u>Subtotal Specialty Items</u>	<u>\$3,213,000</u>

\*Includes \$507,000 for temporary K-Rail

**Notes:**

The following are the structural section depths for all new pavement sections:

HMA 0.90 ft  
 CTB 0.85 ft  
 AS 1.5 ft



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	<u>Unit Cost</u>		<u>Section Cost</u>
<u>Section 8 - Minor Items</u>			
Subtotal Sections 1 - 7	\$15,511,000	X	3.0%
			\$465,000
			TOTAL MINOR ITEMS: <u>\$465,000</u>

Section 9 - Roadway Mobilization

Subtotal Sections 1 - 7	\$15,511,000		
Minor Items	\$465,000		
Sum	\$15,976,000	X	10%
			\$1,598,000
			TOTAL ROADWAY MOBILIZATION: <u>\$1,598,000</u>

Section 10 - Roadway Additions

Supplemental Work

Subtotal Sections 1 - 7	\$15,511,000		
Minor Items	\$465,000		
Sum	\$15,976,000	X	5%
			\$799,000

Contingencies

Subtotal Sections 1 - 7	\$15,511,000		
Minor Items	\$465,000		
Sum	\$15,976,000	X	20%
			\$3,195,000
			TOTAL ROADWAY ADDITIONS: <u>\$3,994,000</u>

Section 11 - Agency Furnished Material

	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>
Resident Engineer Office Space	1	LS	\$241,000	\$241,000
Transportation Management Plan	1	LS	\$1,060,000	\$1,060,000
			TOTAL AGENCY FURNISHED MATERIAL: <u>\$1,301,000</u>	

Section 12- Time Related Overhead (TRO)

Subtotal Sections 1 - 7	\$15,511,000	X	2.5%	\$388,000
			TOTAL TIME RELATED OVERHEAD: <u>\$388,000</u>	

TOTAL ROADWAY ITEMS: \$23,260,000  
 (Subtotal Sections 1 - 12)

<b>Estimate Prepared by</b>	Tommy Cho, P.E.	(408) 453-5373	07/09/15
	(Print Name)	(Phone)	(Date)
<b>Estimate Checked by</b>	Admas Zewdie, P.E.	(408) 453-5373	07/09/15
	(Print Name)	(Phone)	(Date)

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**II. STRUCTURES ITEMS**

	Structure (1)	Structure (2)	Structure (3)	
Bridge Name	_____	_____	_____	
Structure Type	_____	_____	_____	
Width (out to out) - (LF)	_____	_____	_____	
Span Length (LF)	_____	_____	_____	
Total Area (SF)	_____	_____	_____	
Footing Type (pile/spread)	_____	_____	_____	
Cost per SF	\$0	\$0	\$0	
Including: Mobilization: 10% Contingency: 20%				
Seismic Retrofit	_____	_____	_____	
Total Cost For Structures	\$0	\$0	\$0	
		SUBTOTAL STRUCTURES ITEMS		\$0
		(Sum of Total Cost for Structures)		=====
Railroad Related Costs:	_____	_____	_____	
	_____	_____	_____	
Total Cost For Railroad Items	\$0	\$0	\$0	
		SUBTOTAL RAILROAD ITEMS		\$0
		(Sum of Total Cost for Railroad Items)		=====
		TOTAL STRUCTURES ITEMS		\$0
		(Sum of Structures Items plus Railroad Items)		=====

COMMENTS:

Estimate Prepared by Tommy Cho, P.E. (408) 453-5373 07/09/15  
 (Print Name) (Phone) (Date)

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**III. RIGHT OF WAY ITEMS**

Right-of-Way estimates should consider the probable highest and best use and type and intent of improvements at the time of acquisition. Assume acquisition including utility relocation occurs at the right of way certification milestone as shown in the

Funding and Scheduling Section of the PSR. For further guidance see Chapter 1, Caltrans Right of Way Procedural Handbook.

	Current Values (Future Use)	Escalation Rate (%/yr)	Escalated Value
Acquisition, including excess lands and damages to remainders	\$52,970	5.00%	\$58,399
Utility Relocation/Service Points (State Share)	\$0	5.00%	\$0
Relocation Assistance	\$0	5.00%	\$0
Clearance / Demolition	\$0	5.00%	\$0
R//W Services - Title and Escrow Fees	\$27,000	5.00%	\$30,000

TOTAL RIGHT OF WAY \$80,000 TOTAL ESCALATED \$89,000

Anticipated Date of Right of Way Clearance 2017  
 (Date to which Values are Escalated)

**Construction Contract Work**

Brief Description of Work:  
The West Segment requires temporary easements (TCE) and Utility Easement on 10  
parcels (2 public/8 private). These easement are required to install conduits  
for electrical and telephone connections outside of Caltrans right of way.

Right of Way Branch Cost Estimate for Work\* \$0

\* This dollar amount is to be included in the Roadway and/or Structures Items of Work, as appropriate. Do not include in Right of Way Items.

**COMMENTS:**

Estimate Prepared by Tommy Cho, P.E. (408) 453-5373 07/09/15  
 (Print Name) (Phone) (Date)