

State Route 70/Erle Interchange Option A Cost Estimate Summary

03-YUB-65, PM 7.5/9.2
03-YUB-70, PM 7.0/9.0
EA 03-3E810K

PROJECT DESCRIPTION:

Limits: Erle Road / SR 70 Interchange Improvements (PM 10.155). Erle Road improvements limits are from Chestnut Road to Edgewater Circle. SR 70 improvement limits are from approximately .5 miles north and south Erle Interchange.

Proposed Improvement (Scope): Major Improvement features includes widening the existing overcrossing and overhead, ramp widening, new ramp re-configurations, and Erle and Lindhurst Road widening. (Constrained)

Alternative: Option A

SUMMARY OF PROJECT COST ESTIMATE

TOTAL ROADWAY ITEMS	\$	<u>14,220,000</u>
TOTAL STRUCTURE ITEMS	\$	<u>11,700,000</u>
SUBTOTAL CONSTRUCTION COSTS	\$	<u>25,920,000</u>
TOTAL RIGHT OF WAY ITEMS	\$	<u>7,610,000</u>
TOTAL ALTERNATIVE COST	\$	<u>33,530,000</u>

Reviewed by District Program Manager

(Signature)

Approved by Project Manager

(Signature)

Date

Phone Number _____

I. ROADWAY ITEMS

Section 1. Earthwork

	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Roadway Excavation	5,000	CY	\$ 20.00	\$ 100,000	
Imported Borrow	270,000	CY	\$ 17.00	\$ 4,590,000	
Remove Curb and Gutter		FT	\$ 6.00	\$ -	
Remove SW		SF	\$ 3.00	\$ -	
Remove PCC Pavement- WB Tower Bridge		SF	\$ 3.00	\$ -	
Remove AC Pavement- Realignment of ramps		SF	\$ 3.00	\$ -	
Clearing & Grubbing		LS	\$ 25,000.00	\$ 25,000	
Remove Unsuitable Material			\$ -	\$ -	
Develop Water Supply			\$ -	\$ -	
Obilterate Surface	9,149	SQYD	\$ 3.00	\$ 27,448	
<u>Subtotal Earthwork</u>					<u>\$ 4,742,448</u>

Section 2. Pavement Structural Section

	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
PCC Pavement (1.0' Depth) Curb and Gutter		CY	\$ 625.00	\$ -	
PCC Pavement (1.0' Depth) Median Curb		CY	\$ 625.00	\$ -	
PCC Pavement (0.5' Depth) Medians		CY	\$ 300.00	\$ -	
PCC Pavement (0.5' Depth) SW	509	CY	\$ 290.00	\$ 147,610	
Asphalt Concrete (0.2'-0.7' Depth)	5,723	TON	\$ 95.00	\$ 543,694	
Open Graded AC (___ Depth)			\$ -	\$ -	
Cement-Treated Base			\$ -	\$ -	
Aggregate Base (1.5' Depth)	14,785	CY	\$ 60.00	\$ 887,100	
Treated Permeable Base			\$ -	\$ -	
Aggregate Subbase			\$ -	\$ -	
Pavement Reinforcing Fabric			\$ -	\$ -	
Asphaltic Emulsion Binder			\$ -	\$ -	
Crack Sealing			\$ -	\$ -	
AC Cold Planing		SF	\$ 1.00	\$ -	
Shoulder Backing			\$ -	\$ -	
<u>Subtotal Pavement Structural Section</u>					<u>\$ 1,578,404</u>

Section 3. Drainage

	<u>Section Cost</u>
\$ 8,107,450 x (10%) =	\$ 810,745
(Subtotal Sections 1, 2, 4 & 5)	
Subtotal Drainage Items	\$ 810,745
<u>Subtotal Drainage</u>	<u>\$ 810,745</u>

<u>Section 4. Specialty Items</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Misc Frontage Work	1	LS	\$ 300,000	\$ 300,000	
Retaining Walls	1	LS	\$ 500,000	\$ 500,000	
Rumble Strip			\$ -	\$ -	
Barriers and Guardrails			\$ -	\$ -	
Left Turn Channelization			\$ -	\$ -	
Highway Planting			\$ -	\$ -	
-Concrete Barrier (Type 60C)	1	LF	\$ 75,000	\$ 75,000	
-Asphalt Concrete (.67' Depth)		TON	\$ 100.00	\$ -	
-Aggregate Base (1.5' Depth)		CY	\$ 50.00	\$ -	
-Roadway Excavation		CY	\$ 20.00	\$ -	
-Remove Metal Beam Guardrail		LF	\$ 35.00	\$ -	
Replacement Planting			\$ -	\$ -	
Irrigation Modification			\$ -	\$ -	
Relocate Private Irrigation Facilities			\$ -	\$ -	
Erosion Control			\$ -	\$ -	
Slope Protection			\$ -	\$ -	
Water Pollution Control			\$ -	\$ -	
Hazardous Waste Mitigation Work			\$ -	\$ -	
Environmental Mitigation			\$ -	\$ -	
Resident Engineer Office Space			\$ -	\$ -	
Subtotal Specialty Items					\$ 875,000

<u>Section 5. Traffic Items</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Lighting		EA	\$ 6,000	\$ -	
Traffic Signals	16	EA	\$ 25,000	\$ 400,000	
Overhead Signs - Hanging from structure	2	EA	\$ 15,000	\$ 30,000	
Overhead Signs - WB On Ramp		EA	\$ 85,000	\$ -	
Construction Area Signs		EA	\$ 200	\$ -	
Traffic Control	1	LS	\$ 350,000	\$ 350,000	
Incl Traffic Control Systems and Traffic Delineation Items and Transportation Management Plan					
Remove Painted Traffic Stripe	27202	LF	\$ 1	\$ 35,363	
Remove Painted Pavement Marking	524	SF	\$ 7	\$ 3,668	
Signing and Striping	51419	LF	\$ 2	\$ 87,412	
Paint Pavement Marker	1516	SF	\$ 3	\$ 5,154	
Subtotal Traffic Items Section					\$ 911,597

TOTAL SECTIONS 1 thru 5 \$ 8,918,194

Section 6. Minor Items

Section Cost

\$ 8,918,194 x (10%) = \$ 891,819
(Subtotal Sections 1 thru 5)

Subtotal Minor Items \$ 891,819

Section 7. Roadway Mobilization

Section Cost

\$ 9,810,014 x (10%) = \$ 981,001
(Subtotal Sections 1 thru 6)

Subtotal Roadway Mobilization \$ 981,001

Section 8. Roadway Additions

Section Cost

Supplemental Work
\$ 9,810,014 x (10%) = \$ 981,001
(Subtotal Sections 1 thru 6)

Contingencies
\$ 9,810,014 x (25%) = \$ 2,452,503
(Subtotal Sections 1 thru 6)

Subtotal Roadway Additions \$ 3,433,505

TOTAL ROADWAY ITEMS \$ 14,224,520
(Subtotal Sections 1 thru 8)

CALL \$ 14,220,000

Estimate Prepared By Christine Jansen **Phone #** (916)781-3835 **Date** Oct-08
(Print Name)

Estimate Checked By Sandy Wong **Phone #** (916)9604330 **Date** Oct-08
(Print Name)

II. STRUCTURES ITEMS

	Structure I	Structure II	Structure III	Structure IV
Bridge Name	<u>Erle Widening</u>	<u>Erle OC (RR)</u>	<u>Lindhurst (North)</u>	<u>Lindhurst (South)</u>
Structure Type	<u>CIP P/S</u>	<u>CIP P/S</u>	<u>CIP P/S</u>	<u>CIP P/S</u>
Width (out to out) - (ft)	<u>Varies</u>	<u>Varies</u>		
Length - (ft)	<u>253'-10 5/8"</u>	<u>143'-3 5/8"</u>		
Total Area -(ft ²)	<u>10715</u>	<u>6910</u>	<u>21000</u>	<u>20700</u>
Footing Type (pile/spread)	<u>16" CIDH</u>	<u>16" CIDH</u>	<u>16" CIDH</u>	<u>16" CIDH</u>
Cost per ft ²				
Incl 10% mobilization and 25% contingency)	\$ <u>207</u>	\$ <u>219</u>	\$ <u>192</u>	\$ <u>192</u>
Bridge Removal	\$ <u>19,000</u>	\$ <u>37,000</u>		
Total Cost For Structure	\$ <u>2,200,000</u>	\$ <u>1,500,000</u>	\$ <u>4,000,000</u>	\$ <u>4,000,000</u>
			Subtotal Structures Items	\$ <u>11,700,000</u>
			(Sum of Total Cost for Structures)	

Railroad Related Costs:	_____	\$ _____	-
	_____	\$ _____	-
	_____	\$ _____	-
		Subtotal Railroad Items	\$ _____
			-

TOTAL STRUCTURES ITEMS \$ 11,700,000
(Sum of Structures Items plus Railroad Items)

COMMENTS: See APS for Option D approved 12/15/2008 by AD

Estimate Prepared By	<u>Christine Jansen</u> (Print Name)	Phone #	<u>(916)781-3835</u>	Date	<u>Oct-08</u>
Estimate Checked By	<u>Sandy Wong</u> (Print Name)	Phone #	<u>(916)9604330</u>	Date	<u>Oct-08</u>

III. RIGHT OF WAY ITEMS

ESCALATED VALUE

A. Acquisition, including excess lands, damages to remainder(s) and Goodwill	\$ 7,376,694
B. Utility Relocation (State Share)	\$ 50,000
C. Relocation Assistance	\$ 140,000
D. Clearance/Demolition	\$ -
E. Title and Escrow Fees	\$ 39,000

TOTAL RIGHT OF WAY ITEMS \$ 7,610,000

Anticipated Date of Right of Way Certification: _____
(Date to which Values are Escalated)

F. Construction Contract Work

Brief Description of Work:

Right of Way Branch Cost Estimate for Work* \$ _____ -

*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	Christine Jansen (Print Name)	Phone #	(916)781-3835	Date	Oct-08
Estimate Checked By	Sandy Wong (Print Name)	Phone #	(916)9604330	Date	Oct-08