

District-County-Route _____
 KP(PM) _____
 EA _____
 Program Code _____

PROJECT DESCRIPTION:

Limits: From Country Club Drive to Crazy Horse Road (south) _____

Proposed Improvement (Scope): Interchange Improvements Year 2025 _____

Cambridge Drive Interchange - Overcrossing Widening _____

SUMMARY OF PROJECT COST ESTIMATE (2005 Unit Prices)

TOTAL ROADWAY ITEMS	<u>\$11,100,000</u>
TOTAL STRUCTURE ITEMS	<u>\$2,000,000</u>
SUBTOTAL CONSTRUCTION COSTS	<u>\$13,100,000</u>
TOTAL RIGHT OF WAY ITEMS	<u>\$800,000</u>
TOTAL PROJECT CAPITAL OUTLAY COSTS	<u>\$13,900,000</u>

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I. ROADWAY ITEMS

<u>Section 1 Earthwork</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Roadway Excavation	39,062	CY	\$15	\$585,926	
Mass Cut & Haul	17,691	CY	\$15	\$265,365	
Mass Fill (use excess cut)	7,162	CY	\$15	\$107,430	
Clearing & Grubbing	1	LS	\$50,000	\$50,000	
Develop Water Supply	1	LS	\$15,000	\$15,000	
Subtotal Earthwork					\$1,023,721 16%
<u>Section 2 Pavement Structural Section*</u>					
Asphalt Concrete	21,877	Ton	\$60	\$1,312,620	
Lean Concrete Base					
Cement-Treated Base					
Aggregate Base	32,250	CY	\$30	\$967,500	
Treated Permeable Base					
Aggregate Subbase					
Curb/Gutter		LF	\$20		
Sidewalk		LF	\$17		
Subtotal Pavement Structural Section					\$2,280,120 35%
<u>Section 3 Drainage</u>					
Large Drainage Facilities					
Storm Drains (per LF widened road)	7,750	LF	\$15	\$116,250	
Pumping Plants					
Project Drainage (X-Drains, overside, etc.)					
Subtotal Drainage					\$116,250 2%

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<u>Section 4 Specialty Items</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Tie back Retaining Walls (note 1)	4,500	SF	\$125	\$562,500	
Retaininag wall Standard (Note 2.)	15,400	SF	\$50	\$770,000	
Noise Barriers	10,800	SF	\$35	\$378,000	
Barriers and Guardrails	1,000	LF	\$50	\$50,000	
Equipment/Animal Passes					
Highway Planting					
Replacement Planting					
Irrigation Modification					
Relocate Private Irrigation Facilities					
Erosion Control		SY	\$1		
Slope Protection					
Water Pollution Control	1	LS	\$75,000	\$75,000	
Hazardous Waste Mitigation Work					
Environmental Mitigation					
Resident Engineer Office Space	1	LS	\$50,000	\$50,000	
Landscaping	1	LS			
Fence Relocation					
				Subtotal Specialty Items	\$1,885,500 29%
Section 5 Traffic Items					
Lighting	1	LS	\$100,000	\$100,000	
Traffic Delineation Items	48000	LF	\$1	\$48,000	
Traffic Signal	2	EA	\$150,000	\$300,000	
Overhead Sign Structures					
Roadside Signs		ea			
Traffic Control Systems (ramp meters)	3	EA	\$80,000	\$240,000	
Transportation Management Plan	1	LS	\$500,000	\$500,000	
Notes					
1. assume 200 ft long under ea bridge abutment x 2 abutments and avg 5 ft high = 2000 SF Add 500 ft x 5 ft avg =2500 SF					
2. Other "normal" retaining walls see Excavation					
				Subtotal Traffic Items	\$1,188,000 18%
				TOTAL SECTION 1 thru 5	\$6,493,591

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Section 6 Minor Items

\$ 6,493,591 x (10.0%) = Item Cost Section Cost
\$650,000
(Subtotal Sections 1 thru 5)

TOTAL MINOR ITEMS \$650,000

Section 7 Roadway Mobilization

\$ 7,143,591 x (10.0%) = \$715,000
(Subtotal Sections 1 thru 6)

TOTAL ROADWAY MOBILIZATION \$715,000

Section 8 Roadway Additions

Supplemental Work

\$ 7,143,591 x (10.0%) = \$715,000
(Subtotal Sections 1 thru 6)

Contingencies

\$ 7,143,591 x 35% = \$2,501,000
(Subtotal Sections 1 thru 6)

TOTAL ROADWAY ADDITIONS \$3,216,000

TOTAL ROADWAY ITEMS \$11,074,591
(Subtotal Sections 1 thru 8)

Estimate Prepared By Ted Idlof Phone # (916)784-3900

Estimate Checked By _____ Phone # _____

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II. STRUCTURES ITEMS

Bridge Name	<u>Cambridge Drive OC</u>		
Structure Type	_____		
Additional Reconstructed Width (Ft)	<u>30.0</u>		
Span Lengths (Ft)	<u>232.0</u>		
Total Area - (SF)	<u>6,960</u>		
Footing Type (pile/spread)	_____		
Cost Per SF (incl. 10% mobilization and 25% contingency)	<u>\$ 250.00</u>		
Total Cost for Structure	<u>\$ 1,740,000</u>		
	SUBTOTAL STRUCTURES ITEMS		<u>\$1,740,000</u>
	(Sum of Total Cost for Structures)		
Seismic Retrofit Demo	<u>9280</u>	<u>\$20.00</u>	<u>\$185,600</u>
	TOTAL STRUCTURES ITEMS		<u>\$1,930,000</u>
	(Sum of Structures Items plus Railroad Items)		

COMMENTS:

For additional information, refer to the Advance Planning Study

Estimate Prepared By _____
 Phone: 916 784-3900

Date _____

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III. RIGHT OF WAY ITEMS	<u>SF</u>	<u>Unit price</u>	ESCALATED VALUE
A. Acquisition, including excess lands,			
damages to remainder(s) and Goodwill	35000	\$ 18.00	\$630,000
B. Utility Relocation (State share)			\$150,000
C. Relocation Assistance			
D. Clearance/Demolition			
E. Title and Escrow Fees			
F. Construction Contract Work			

assume 20' strip east
side, 15' strip west side
32+00 to 42+00

Brief Description of Work:

TOTAL RIGHT OF WAY ITEMS \$780,000

(Current Value)

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

Right of Way Branch Cost Estimate for Work*
Fence Relocation

* 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:

R/W areas furnished by _____ URS Corp
R/W unit costs furnished by _____

Estimate Prepared By _____ Phone # _____
(Print Name)

Date: