

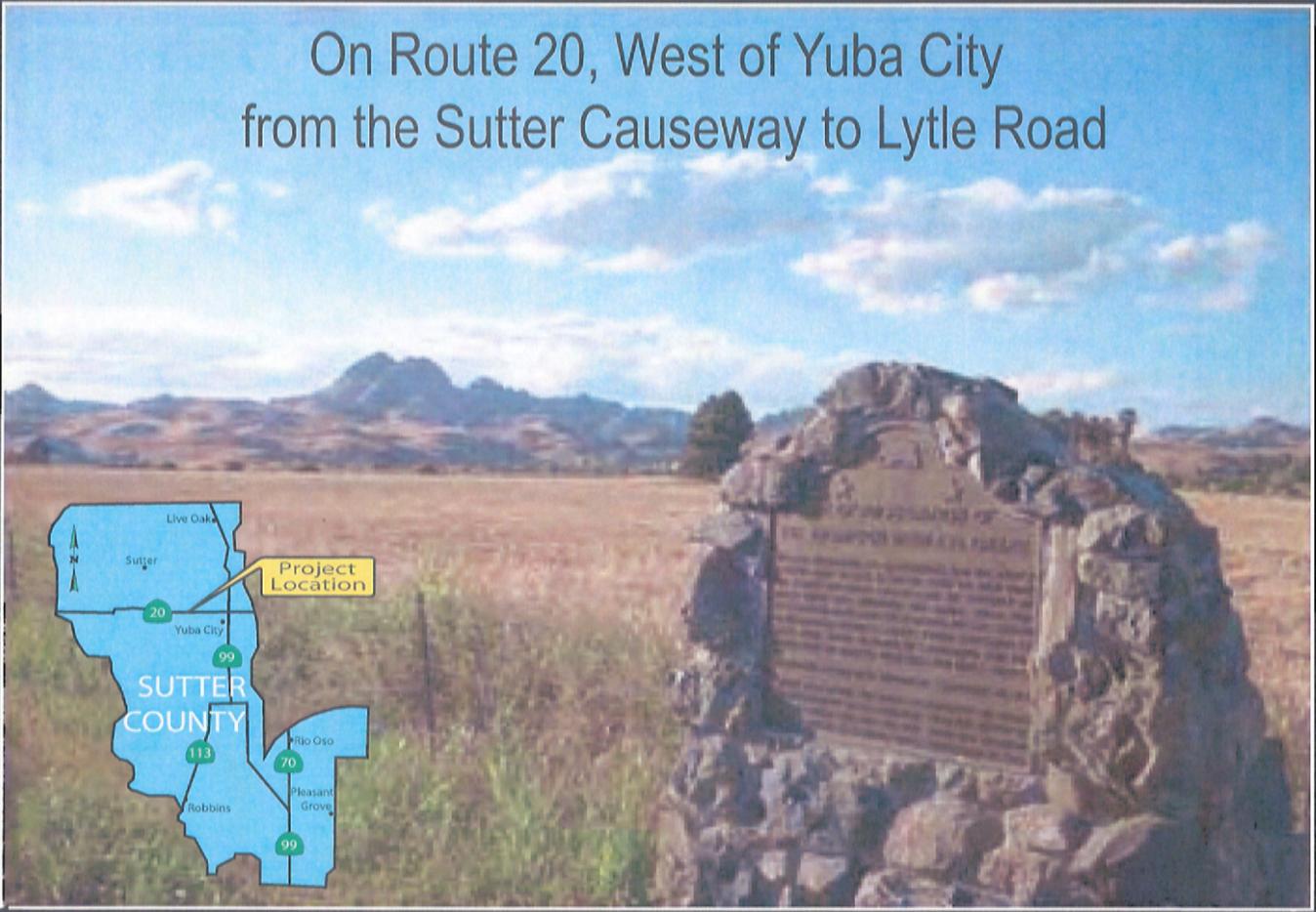


03-Sut-20 PM 5.4/11.1
Project Id No. 0300020608
03-1A920K
20.XX.201.120
June 2011

SUPPLEMENTAL REPORT

(TO PROJECT SCOPE SUMMARY REPORT FOR PAVEMENT REHABILITATION & SHOULDER WIDENING)

On Route 20, West of Yuba City from the Sutter Causeway to Lytle Road



I have reviewed the right of way information contained in this Project Scope Summary Report and the R/W Data Sheet attached here to, and find the data to be complete, current and accurate:

Brenda Schimpf 6/14/11
BRENDA SCHIMPF Date
District Division Chief - NR Right of Way

APPROVAL
RECOMMENDED:

Ali Kiani 6/13/2011
ALI KIANI Date
Project Manager

APPROVED BY:

Jody Jones 6/15/11
JODY JONES Date
District Director, District 3

REPORT SIGNATURE SHEET



This Supplemental Project Scope Summary 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.

A handwritten signature in blue ink, appearing to read 'Tou Y. Vang', written over a horizontal line.

Tou Vang
Registered Civil Engineer

6-9-2011

Date



SUPPLEMENTAL PROJECT SCOPE SUMMARY REPORT FOR ROADWAY REHABILITATION

1. Introduction

This Supplemental Report updates Alternative 1's 40-year structural section recommendations, updates the cost estimate to be in accordance with the new recommended structural section, and includes updated attachments for the Project Scope Summary Report (Pavement Rehabilitation and Shoulder Widening) that was approved on March 30, 2011. There are no changes to Alternative 2.

Capital Costs*: \$ 19,480,000

Structures: \$ 620,000

Roadway: \$ 18,800,000

Right of Way: \$ 60,000

Funding Source: 2010 SHOPP

Type of Facility: Conventional Highway

Project Program: 20.XX.201.120
Roadway Rehabilitation

**Anticipated Environmental
Determination/Document:** Initial Study with Negative Declaration
(CEQA)
Categorical Exclusion (NEPA)

Construction Year: 2013/2014

2. Alternatives

HQ Pavement Design requested that this project use a 40-year design strategy.

*Escalated to 13/14 fiscal year; see Programming Sheet, *Attachment C*, for more information.

Alternative 1 – 40-year Pavement Design Strategy, including:

- Remove all asphalt concrete
- Re-compact existing base material
- Place 0.20' Hot Mix Asphalt (Type A) High Binder
- Place 0.20' Hot Mix Asphalt (Type A)
- Place 0.15' Rubberized Hot Mix Asphalt (Type G)

- Place 0.10' Rubberized Hot Mix Asphalt (Type O)
- Widen shoulders to 8'
- Widen Wadsworth Canal Bridge (Br. No. 18-3)
- Upgrade metal beam guardrail to current standards
- Upgrade dike to Type E safety shape
- Shoulder backing
- Grade slopes to 4:1 or flatter, where possible
- Replace culverts and place rock slope protection, as needed
- Extend reinforced box culverts
- Relocate utilities that encroach in Clear Recovery Zone
- Full road closures with detour strongly suggested
- Avoid segment near Acacia Avenue (from approximately post mile 8.9 to 9.5) due to a project to signalize the intersection scheduled for construction this summer (2011)

Alternative 1 has significant traffic impacts due to the paving strategy required for a 40-year design life. In each shift, the contractor must remove all existing pavement, re-compact the existing base material, and place two lifts of hot mix asphalt (HMA) with different mix designs. Per the materials recommendation, the bottom lift of HMA is a high binder mix and cannot support traffic, even for short periods of time. Therefore, the work must be staged in short enough segments to allow the contractor to complete all work mentioned above prior to reopening the highway to normal two-way traffic operations.

Removal of the existing pavement will result in a drop-off of up to 9" to base material. Allowing the highway to remain open to traffic would require temporary ramps into and out of the work zone with one-way reversible traffic control. Night closures of the highway and use of a detour is recommended to maintain a safe environment for both the workers and the traveling public, as well as increase efficiency of construction operations.

This alternative is estimated to take one to two construction seasons to complete. The total capital cost estimate for this alternative escalated to 13/14 fiscal year is \$19,480,000.

Alternative 2 – No changes.

13. List of Attachments

- A. Typical Cross Sections
- B. Cost Estimate Breakdown
- C. Programming Sheet

ATTACHMENT A
TYPICAL CROSS SECTIONS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sut	20	5.4/11.1		

REGISTERED CIVIL ENGINEER DATE

INCOMPLETE PLANS

PLANS APPROVAL DATE

NO. 101

Exp. 12/31/11

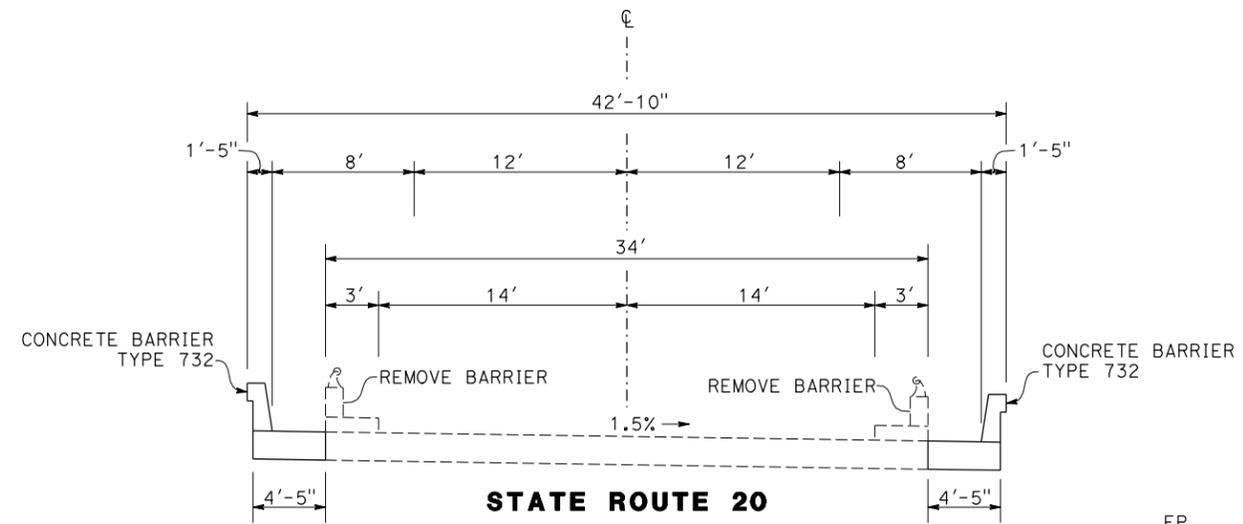
REVISOR

DESIGNED BY

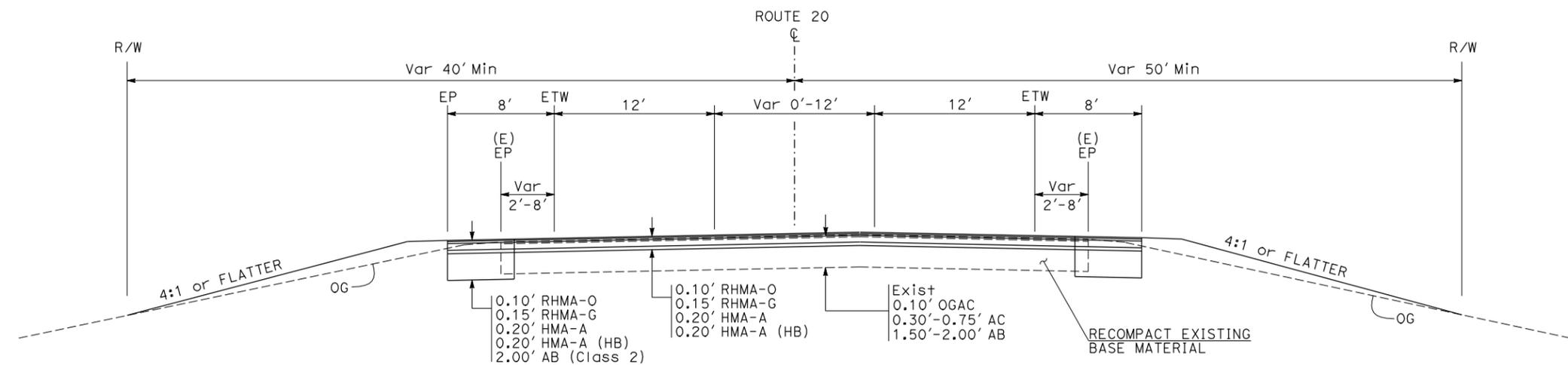
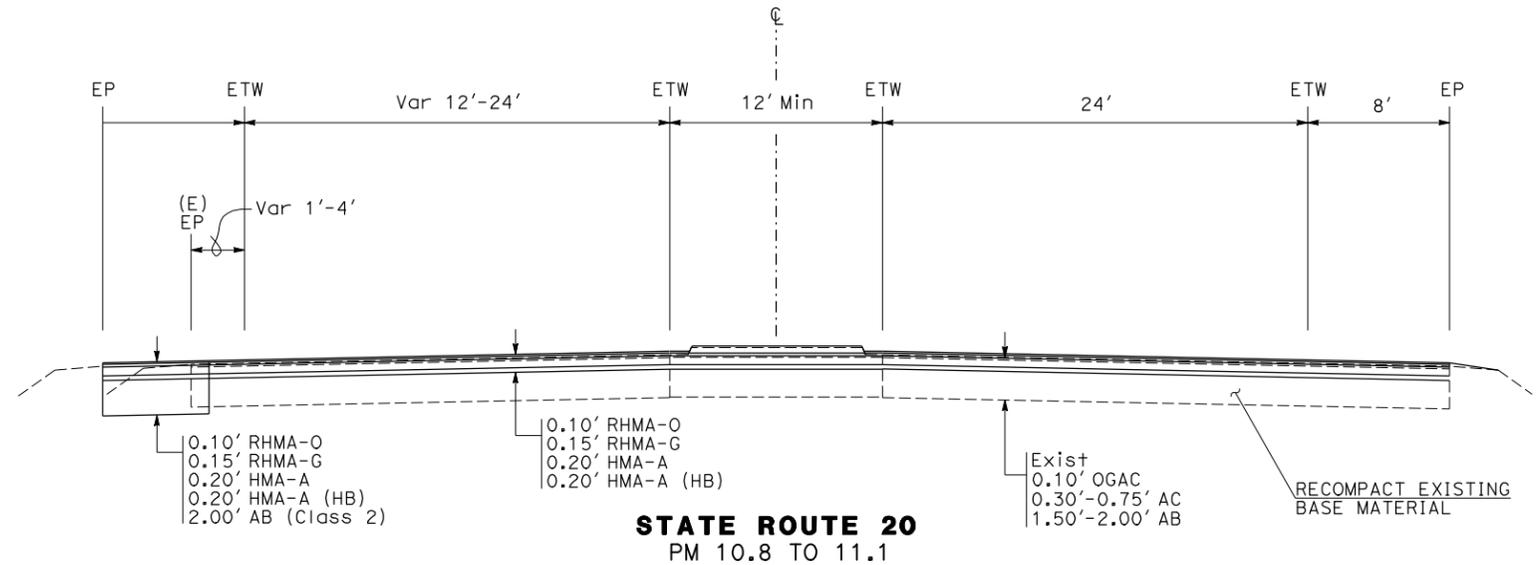
CHECKED BY

STATE OF CALIFORNIA CIVIL ENGINEER

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



STATE ROUTE 20
WIDEN STRUCTURE
WADSWORTH CANAL
Br. No. 18-3



STATE ROUTE 20
PM 5.4 TO 10.8

ALTERNATIVE 1
TYPICAL CROSS SECTIONS
NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DISTRICT 3
OFFICE OF ADVANCE PLANNING

FUNCTIONAL SUPERVISOR
ISAM TABSHOURI

REVISOR
DATE

DESIGNED BY
CHECKED BY

REVISIONS

ATTACHMENT B
COST ESTIMATE BREAKDOWN

PRELIMINARY COST ESTIMATE SUMMARY

03-Sut-20-PM 5.4/11.1
03-1A920k-0300020608

ALTERNATIVE 1

PROJECT DESCRIPTION:

In Sutter County near Yuba City from 0.4 mile east of Sutter Bypass Bridge to 0.4 mile east of Humphrey Road
Rehabilitate Pavement with 40-year design strategy.

SUMMARY OF PROJECT COST ESTIMATE

TOTAL ROADWAY ITEMS	\$ 16,950,000
TOTAL STRUCTURE ITEMS	\$ 550,000
SUBTOTAL CONSTRUCTION COSTS	\$ 17,500,000
TOTAL RIGHT OF WAY ITEMS	\$ 60,000
TOTAL PROJECT CAPITAL OUTLAY COSTS	\$ 17,560,000

Reviewed by District
Program Manager

Signature

Date

Approved by
Project Manager

Signature

Date

I. ROADWAY ITEMS

Quantity Unit Unit Price Item Cost Section Cost

Section 1: Earthwork

Retaining Wall			\$ -	\$ -
Roadway Excavation	37,000	CY	\$ 15	\$ 555,000
Imported Borrow			\$ -	\$ -
Clearing & Grubbing	1	LS	\$ 20,000	\$ 20,000
Develop Water Supply	1	LS	\$ 10,000	\$ 10,000

Subtotal Earthwork \$ 585,000

Section 2: Pavement Structural Section

Coldplane AC Pavement (0.75' max)	95,000	SQ YD	\$ 10	\$ 950,000
Hot Mix Asphalt (Type A) High Binder	20,000	TON	\$ 90	\$ 1,800,000
Hot Mix Asphalt (Type A)	20,000	TON	\$ 85	\$ 1,700,000
Rubberized Hot Mix Asphalt (Type G)	15,000	TON	\$ 80	\$ 1,200,000
Rubberized Hot Mix Asphalt (Type O)	7,000	TON	\$ 90	\$ 630,000
Aggregate Base	28,000	CY	\$ 30	\$ 840,000
Subgrade Enhancement Geotextile	40,500	SQ YD	\$ 2	\$ 81,000
HMA Dike Type E	2,000	LF	\$ 3	\$ 6,000
Overside Drain	1	LS	\$ 5,000	\$ 5,000

Subtotal Pavement Structural Sections \$ 7,212,000

Section 3: Drainage

Large Drainage Facilities			\$ -	\$ -
Storm Drains			\$ -	\$ -
Pumping Plants			\$ -	\$ -
Extend Reinforced Box Culverts	1	LS	\$ 600,000	\$ 600,000
Replace Culverts	42	EA	\$ 8,000	\$ 336,000
Rock Slope Protection	1	LS	\$ 150,000	\$ 150,000

Subtotal Drainage \$ 1,086,000

Quantity Unit Unit Price Item Cost Section Cost

Section 4: Specialty Items

Prepare SWPPP	1	LS	\$ 10,000	\$ 10,000
Concrete Barrier			\$ -	\$ -
Metal Beam Guard Railing	500	LF	\$ 30	\$ 15,000
Facilities - Temp Fence & Gate	1,000	LF	\$ 6	\$ 6,000
Fence (Remove and Replace)			\$ -	\$ -
Landscape	1	LS	\$ 300,000	\$ 300,000
Construction Site BMPs	1	LS	\$ 300,000	\$ 300,000
Lead Compliance Plan			\$ -	\$ -
Environmental Mitigation	1	LS	\$ 20,000	\$ 20,000
Resident Engineer Office Space	1	LS	\$ 40,000	\$ 40,000

Subtotal Specialty Items \$ 691,000

Section 5: Traffic Items

Traffic Delineation Items	1	LS	\$ 70,000	\$ 70,000
Temporary Traffic Delineation	1	LS	\$ 60,000	\$ 60,000
Traffic Electrical	1	LS	\$ 20,000	\$ 20,000
Roadside Signs (Const Area)	1	LS	\$ 10,000	\$ 10,000
Overhead Sign			\$ -	\$ -
COZEEP	50	Nights	\$ 2,000	\$ 100,000
Traffic Control	225	Days	\$ 2,500	\$ 562,500
Temporary Railing, Type K	15,000	LF	\$ 15	\$ 225,000

Subtotal Traffic Items \$ 1,047,500

SUBTOTAL SECTIONS 1 THROUGH 5 \$ 10,621,500

Section 6: Minor Items

Section Cost

$$\boxed{\$ 10,621,500} \times \boxed{0.10} = \boxed{\$ 1,063,000}$$

(Subtotal Sections 1-5)

Total Minor Items \$ 1,063,000

Section 7: Roadway Mobilization

$$\boxed{\$ 11,684,500} \times \boxed{0.10} = \boxed{\$ 1,169,000}$$

(Subtotal Sections 1-6)

Total Roadway Mobilization \$ 1,169,000

Section 8: Roadway Additions

Supplemental Work

$$\boxed{\$ 11,684,500} \times \boxed{0.10} \times X = \boxed{\$ 1,169,000}$$

(Subtotal Sections 1-6)

Contingencies

$$\boxed{\$ 11,684,500} \times \boxed{0.25} \times X = \boxed{\$ 2,922,000}$$

(Subtotal Sections 1-6)

Total Roadway Additions \$ 4,091,000

TOTAL ROADWAY ITEMS \$ 16,945,000
(Subtotal Sections 1-8)

Estimate Prepared By: Tou Vang
(Print Name)

Date: 6/3/2011
Phone: (530) 741-5736

Estimate Checked By: _____
(Print Name)

Date: _____
Phone: _____

II. Structures Items

Section Cost

Widen Dry Creek Bridge
Bridge Number 16-10

\$ 548,000
(incl. 10% mobilization and 40% contingency)

Subtotal Structures Items **\$ 548,000**

III. Railroad Related Costs

	<i>Quantity</i>	<i>Unit</i>	<i>Unit Price</i>	<i>Item Cost</i>	<i>Section Cost</i>
<u>Not Applicable</u>			\$ -	\$ -	
_____			\$ -	\$ -	
_____			\$ -	\$ -	
_____			\$ -	\$ -	

Subtotal Railroad Costs **\$ -**

TOTAL STRUCTURES AND RAILROAD ITEMS **\$ 548,000**

Subtotal Railroad Costs **\$ -**

TOTAL STRUCTURES AND RAILROAD ITEMS **\$ 548,000**

Estimate Prepared By: _____
(Print Name)

Date: _____
Phone: _____

IV. Right of Way Escalated Value

Item Cost

Acquisition (including excess lands, damages to remainder(s) and goodwill)	\$ 25,483
Environmental Mitigation and Permits	
Project Development Permit Fees	\$ 34,365
Utility Relocation (State share)	\$ -
Relocation Assistance	\$ -
Clearance/Demolition	\$ -
Title and Escrow Fees	\$ -

TOTAL RIGHT OF WAY ITEMS \$ 59,900

Anticipated Date of Right of Way Certification May 1, 2014
 (Date to which values are escalated)

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.

Estimate Prepared By: Kelly Kilpatrick
 (Print Name)

Date: March 16, 2011
 Phone: (530) 740-4915

Alternative 1: Escalated Values

	10/11	11/12	12/13	13/14
Roadway	\$ 16,950,000	\$ 17,544,000	\$ 18,159,000	\$ 18,800,000
Structures	\$ 550,000	\$ 570,000	\$ 590,000	\$ 620,000
Right of Way				\$ 60,000
Total Capital Costs in 13/14 FY				\$ 19,480,000

*Escalation rate is 3.5%.

ATTACHMENT C
PROGRAMMING SHEET

PROGRAMMING SHEET - 2011/2012

EA: 03-1a920
 Proj Name: No Nick

Project Manager: Ali Kiani
 Co-Rte-PM: SUT-020- 005.4/ 011.1

Date: 07/06/2011
 Type: SHOPP

PROJECT SCHEDULE

MILESTONE		DATE (STATUS)
Begin Environmental Document	M020	08/01/2011 (T)
Begin Project Report	M040	07/01/2011 (T)
Circulate Environmental Document (DED)	M120	09/01/2012 (T)
Project Approval & Environmental Document (PA&ED)	M200	02/01/2013 (T)
District Submits Bridge Site Data to Structures	M221	02/01/2013 (T)
Right of Way Maps	M224	02/01/2013 (T)
Regular Right of Way	M225	05/01/2013 (T)
District Plans, Specifications & Estimates to DOE	M377	12/01/2013 (T)
Draft Structures Plans, Specifications & Estimates	M378	01/01/2014 (T)
District Plans, Specifications & Estimates (PS&E)	M380	02/01/2014 (T)
Right of Way Certification	M410	05/01/2014 (T)
Ready to List (RTL)	M460	05/01/2014 (T)
Headquarters Advertise (HQ AD)	M480	07/01/2014 (T)
Approve Construction Contract	M500	12/01/2014 (T)
Contract Acceptance (CCA)	M600	11/15/2016 (T)
End Project	M800	11/15/2018 (T)

ESTIMATE	DATE	AMOUNT
ROADWAY	06/22/11	\$ 16950
BRIDGE	06/22/11	\$ 550
Subtotal Const		\$ 17500
RIGHT OF WAY	03/17/11	\$ 60
MITIGATION		\$ 0
Subtotal RW		\$ 60
GRAND TOTAL		\$ 17560

EXISTING PROGRAMMING	
PAED	\$
PS&E	\$
RW - Sup	\$
RW - Cap	\$
Const - Sup	\$
Const - Cap	\$

*Does not apply to RW Capital + Not Escalated ++ Only Escalated to 1 year into Future

PROJECT COSTS BY SB45 CATEGORY

CAPITAL COST ESTIMATE (Escalation Factor)	Prior Yrs+	11/12+	12/13 (3.5%)	13/14 (3.5%)	14/15 (3.5%)	15/16 (3.5%)	Future++ (3.5%)	Total	
Right of Way					60			\$ 60	
Construction				18746				\$ 18,746	
CAPITAL COSTS TOTAL								\$ 18,806	
SUPPORT COSTS (Escalation Factor)			(1.5%)	(1.5%)	(1.5%)	(1.5%)	(1.5%)		Sup/Cap
PAED		437	257					\$ 694	3.69%
PS&E			848	813	111			\$ 1,771	9.42%
Right of Way			46	103	22	22	50	\$ 243	1.29%
Construction					693	1214	948	\$ 2,854	15.17%
SUPPORT COSTS TOTAL								\$5,561	29.57%
TOTAL PROJECT COSTS								\$ 24,368	

PROJECT SUPPORT IN PYS

	Prior Yrs	11/12	12/13	13/14	14/15	15/16	Future	Total	PY %
Environmental	0.00	1.44	1.20	0.90	0.41	0.67	0.73	5.35	13.59%
Design	0.00	0.52	3.27	1.31	0.19	0.31	0.13	5.73	14.55%
Engineering Services	0.00	0.47	0.94	0.95	0.24	0.31	0.44	3.35	8.51%
Surveys	0.00	0.07	0.57	0.26	0.17	0.27	0.16	1.50	3.81%
Right of Way	0.00	0.15	0.27	0.76	0.14	0.15	0.32	1.79	4.55%
Traffic	0.00	0.13	0.40	0.34	0.61	0.85	0.64	2.97	7.54%
Construction	0.00	0.21	0.21	0.27	1.37	2.08	1.89	6.03	15.32%
Project Management	0.00	0.12	0.22	0.36	0.16	0.01	0.03	0.90	2.29%
District Units*	0.00	0.78	0.87	0.53	0.34	0.56	0.27	3.35	8.51%
Subtotal Dist/Region Resources	0.00	3.89	7.95	5.68	3.63	5.21	4.61	30.97	78.66%
59-DES Project Development	0.00	0.02	0.19	0.22	0.77	1.23	1.02	3.45	8.76%
59-DES Structures Foundation	0.00	0.04	0.34	0.40	0.12	0.20	0.25	1.35	3.43%
59-Office Engineer	0.00	0.00	0.00	0.26	0.10	0.00	0.00	0.36	0.91%
59-DES Project Management	0.00	0.01	0.02	0.03	0.02	0.01	0.02	0.11	0.28%
59-DES Construction	0.00	0.01	0.04	0.08	0.78	1.33	0.89	3.13	7.95%
59-DES Other Units**	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%
Subtotal DES Resources	0.00	0.08	0.59	0.99	1.79	2.77	2.18	8.40	21.34%
TOTAL PYS	0.00	3.97	8.54	6.67	5.42	7.98	6.79	39.37	

*Admin, Plng, Maintenance

**DES Admin, DES Plng, DES Maintenance

HRS/PYS = 1758

Comments: