

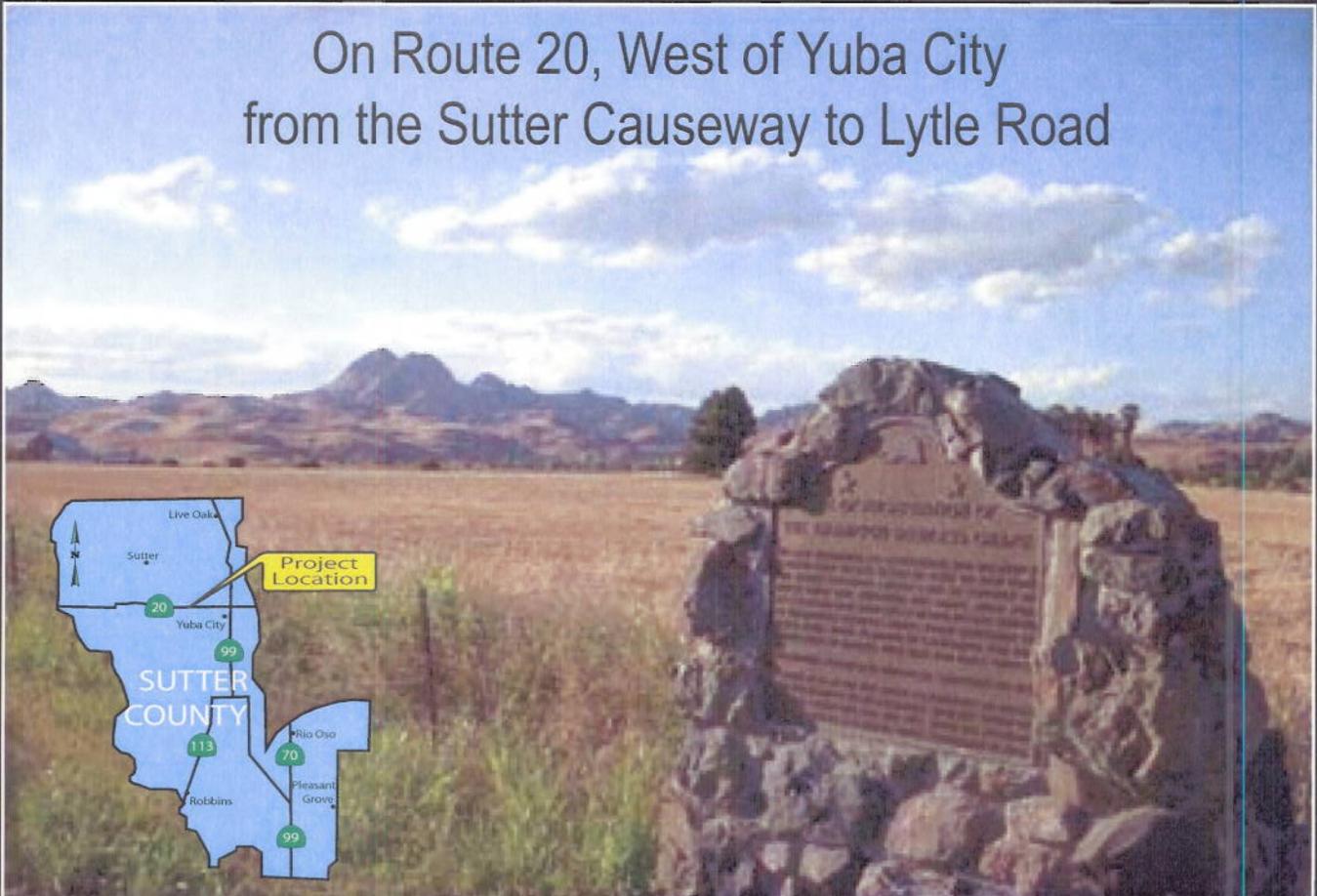


03-Sut-20 PM 5.4/11.1
 Project Id No. 0300020608
 03-1A920K
 20.XX.201.120
 March 2011

PROJECT SCOPE SUMMARY REPORT

(PAVEMENT REHABILITATION AND 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 3/30/11
 BRENDASCHIMPF Date
 Division Chief - NR Right of Way

APPROVAL
 RECOMMENDED:

Ali Kiani 3-29-11
 ALI KIANI Date
 Project Manager

APPROVED BY:

Jody Jones 3/30/11
 JODY JONES Date
 District Director, District 3

REPORT SIGNATURE SHEET



This 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.

Molly Richard

Molly Richard
Registered Civil Engineer

March 29, 2011

Date



PROJECT SCOPE SUMMARY REPORT FOR ROADWAY REHABILITATION

1. Introduction

This Resurfacing, Restoration, and Rehabilitation (3R) project proposes to replace or rehabilitate pavement, and widen shoulders on State Route (SR) 20 in Sutter County near Yuba City from 0.4 mile east of Sutter Bypass to 0.4 mile east of Humphrey Road. The Wadsworth Canal Bridge will also be widened to meet standard shoulder widths.

Capital Costs*: \$ 25,700,000

Structures: \$ 620,000

Roadway: \$ 25,020,000

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: 2014/2015

2. Purpose and Need

The existing shoulder widths do not meet current standards. The existing pavement is exhibiting major signs of distress and will further deteriorate without action.

The purpose of this project is to upgrade the roadway to current standards by widening the shoulders and extending the service life of the pavement.

3. Alternatives

HQ Pavement Design requested that this project use a 40-year design strategy. The Highway Design Manual section 612.5 states that Roadway Rehabilitation projects shall use a minimum 20-year design strategy. Since a life-cycle cost analysis could not be completed in the time frame allowed for this PSSR, both design strategies are included as viable alternatives for the project.

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

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

- Remove all asphalt concrete
- Re-compact existing base material
- Place 0.25' Hot Mix Asphalt (Type A) High Binder
- Place 0.50' 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 capital cost estimate for this alternative is \$25,700,000.

Alternative 2 – 20-year Pavement Design strategy, including:

- Dig out and repair locations of severe failure
 - Seal cracks wider than 0.25"
 - Overlay 0.2' Rubberized Hot Mix Asphalt (Type G)
 - Overlay 0.1' 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
- 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)

This alternative is estimated to take one construction season to complete. The capital cost estimate (escalated to 13/14 fiscal year) for this alternative is \$14,710,000.

Alternative 3 – No build. This alternative does not satisfy the need and purpose of the project.

4. Existing Facility

State Route 20 begins at SR 1 near Fort Bragg and ends at Interstate 80 near Emigrant Gap. Within District 3, the route runs 122 miles west to east through Colusa, Sutter, Yuba, and Nevada counties. SR 20 is mainly a two-lane highway that serves regional, interregional, commute, commercial, agricultural, and recreational traffic. SR 20 serves as a major east-west connector to I-5 and SR 99 and interconnects with other major routes, including SR 70 and I-80.

SR 20 is part of the Interregional Transportation Strategic Plan and is classified as a High Emphasis Focus Route. A High Emphasis Focus Route is one of Caltrans' highest priority route designations for completion to at least minimum facility standards within a 20-year planning period, assuring that a statewide trunk system is in place and complete for higher volume interregional trip movements.

SR 20 from the Sutter Bypass to just west of Yuba City is a rural, two-lane conventional highway that was built in 1920. Since then, there have been intersection builds and upgrades, and in 2007, the pavement in this area had section replacements and an overlay to help extend the pavement life.

This segment currently operates at Level of Service (LOS) C. By the year 2027, operation of the facility will decline to LOS D. This facility is not expected to fall below concept standard of LOS D therefore no major capacity improvements will be required. However, as shoulder widths vary along this segment, SR 20 should be improved to meet the 8-foot standard shoulder width.

Roadway Geometric Information

SR 20 through this area is a two-lane conventional highway and changes to a four-lane highway near post mile 10.8. See Table 1 for more information.

Table 1 - Roadway Geometric Information

	Minimum Curve Radius	Through Traffic Lanes			Paved Shoulder Width		Median Width	Median Barrier
		No. of Lanes	Lane Width	Type (AC, PCC, AC over PCC)	Left	Right		Yes or No
Existing	N/A	2-4	12 ft	AC	0-8	0-8	0	No
Proposed	N/A	2-4	12 ft	AC	8	8	0	No
Standard	N/A		12 ft		8	8	0	No

Structures Information

The Wadsworth Canal Bridge (Br. No. 18-3) is a reinforced concrete structure built in 1920 and widened in 1959. Even though this bridge is older, it is in satisfactory condition and suitable for widening to accommodate standard 8-foot shoulders. Due to time constraints, a Structures Advance Planning Study was not completed, but the HQ Technical Liaison Engineer created a ballpark cost estimate; see *Attachment C* and Table 2 for more information.

Table 2 - Structures Information

Structure	Width Between Curbs			Standards Met?		Vertical Clearance Over Main-Line			Existing Condition	
				Bridge Rail	Bridge Approach Rail				Bridge Approach Slab	AC Overlay
Number	Exist	Std	Prop	Yes or No		Exist	Std	Prop	Yes or No	
18-3	28'	40'	40'	No	No	N/A	N/A	N/A	No	Yes

Pedestrian and Bicyclist Information

This segment of SR 20 does not have any sidewalks or curbs subject to ADA requirements due to very low numbers of pedestrians. This roadway is designated as bicycle accessible. Widening the shoulders to standard width will create a safer environment for bicyclists along this route. During construction, accommodations will be needed for both pedestrians and bicyclists.

Traffic Data

The traffic data for this portion of SR 20 is listed in Table 3 below. The highway has a directional split of 55% and 3% truck traffic.

Table 3 – Traffic Data

Year		Annual ADT	Peak Hour	Traffic Index
Base Year	2009	9,300	870	
Construction Year	2014	10,200	960	9.0
20-Year	2034	17,700	1,320	10.5

The latest collision rate for both eastbound and westbound directions of SR 20 for the three-year period from January 1, 2007 to December 31, 2009 is listed in Table 4.

Table 4 – Collision History

County	Route	PM	DIR	TOT	FAT	INJ	F+I	Actual			Average		
								FAT	F+I	TOTAL	FAT	F+I	TOTAL
SUT	20	5.4/ 11.1	Both	45	2	17	19	0.039	0.37	0.87	0.025	0.34	0.79

During the three-year period there were 45 collisions within the project limits resulting in 17 injuries and two fatalities. Out of the 45 collisions, 16 occurred at intersections. Twelve collisions, including one fatality, occurred at the intersection of Acacia Avenue. A project to signalize this intersection is to be constructed this summer.

The primary collision factor for one-third of the collisions was failure to yield. Other violations was the factor for 29% of the collisions, while 16% of the collisions were attributed to speed. The remaining collisions were due to influence of alcohol, improper turns, and other than driver.

The District Traffic Safety Branch performed a safety screening for the project and had the following recommendations, which have been included in the project scope: widen the highway to 40' standard section to reduce collisions related to highway width and use Safety Edge paving to help motorists maintain control and reduce over-steering.

5. Traffic Management Plan

A Traffic Management Plan (TMP) Datasheet was created for this project to assess the traffic impacts and mitigation measures. Some of the information is summarized below; see *Attachment D* for more information.

On SR 20, a minimum of one paved traffic lane shall be open for use by public traffic with one-way traffic control using flaggers, unless a detour is provided. Lane and shoulder closures will be allowed during active construction operations during daytime hours on weekdays, but may be restricted during peak commute hours. The multilane section at the east end of the project will require one lane in each direction of travel to remain open at all times. No lane closures or other traffic restrictions will be allowed on designated legal holidays and the day preceding designated legal holidays.

When closures occur inside or within 200 feet of an intersection, flaggers will need to be deployed to control all legs of the intersection. Access to cross streets shall be maintained during construction. Coordinating with projects adjacent to or within the limits of this project will be required to avoid conflicts.

Due to safety consideration, work at this location will require the assistance of COZEEP for all lane closures and detours but not a full time presence. Portable changeable message signs (PCMS) will be required in both directions of traffic during construction for each lane or shoulder closure.

6. **Environmental**

Environmental Status

In order to identify environmental issues, constraints, costs and resource needs, the Office of Environmental Support prepared a mini-Preliminary Environmental Analysis Report (PEAR) for the project. Some of the information contained within this report is summarized below; see *Attachment E* for more information.

The anticipated Environmental Approval for this project is an Initial Study with Negative Declaration pursuant to the California Environmental Quality Act (CEQA) and Categorical Exclusion pursuant to the National Environmental Policy Act (NEPA). It will take approximately 18 months to complete the environmental process.

Environmental Issues

Biology

Multiple wildlife and vegetation species have been observed in the project area, some of which are protected by State and Federal agencies. Field surveys and studies will be required to confirm the presence of and potential impacts to protected species. Consultation with the US Fish and Wildlife Service (USFWS) and Department of Fish and Game (CDFG) will be required to determine if this project will impact any protected plant or wildlife species and what mitigation may be necessary. Consultation with the US Army Corps of Engineers (USACE) will also be required to determine the extent of impacts to jurisdictional waters and waters of the U.S. and what mitigation may be necessary.

Permits from the USACE, CDFG, and Regional Water Quality Control Board (RWQCB) are anticipated on this project. Permits and approvals may also be necessary from the USFWS and the CDFG if impacts to protected plant and wildlife species or their habitat are unavoidable.

Archaeology

Previous project reports and an internal Caltrans database were consulted to determine possible archaeological impacts. The only cultural resource identified during the background search was a historic monument. It is possible that the proposed project can be screened under the Programmatic Agreement. However, if the historic monument needs to be relocated, a Phase I Identification study will be required.

Hazardous Waste

An Initial Site Assessment was prepared for this project. The potential for hazardous waste exists within the Environmental Study Limits (ESL). The following contaminants have been identified: Aerially Deposited Lead (ADL), lead and chromium in yellow traffic stripes, and treated wood waste from signs and/or metal beam guardrail posts. A Site Investigation to determine the amount of ADL within the project limits will be required. For additional information see *Attachment F*.

Water Quality and Storm Water Runoff

During project delivery, the project area should be evaluated for potential water quality impacts. We are required to adhere to the conditions of the Caltrans Statewide NPDES Permit. It is important that appropriate Construction Site BMPs are deployed during construction activities to avoid and/or minimize impacts. If site dewatering will occur, a dewatering plan is required.

Air Quality

This project is anticipated to be exempt from all air quality conformance analysis requirements. A technical memo will be prepared during PA&ED.

Noise

This project is not anticipated to require a project level noise analysis. A technical memo will be prepared during PA&ED.

Visual Effects

Due to the time constraints, input from landscaping staff for this analysis was not completed.

Hazardous Waste

An Initial Site Assessment was prepared for this project. The potential for hazardous waste exists within the environmental study limits. The following contaminants have been identified: Aerially Deposited Lead (ADL), lead and chromium in yellow traffic stripes, treated wood waste from signs and/or metal beam guardrail, and asbestos containing material. A Site Investigation to determine the amount of ADL within the project limits will be required. See *Attachment F* for more information.

7. Project Drainage

The majority of this project is located within a zone designated by FEMA as X, Other Flood Areas, which include areas of 0.2% annual chance flood, areas of 1% annual chance flood with average depths less than 1 foot and areas protected by levees from the 1% annual chance flood. The area near Wadsworth Canal Bridge is designated Zone A, Areas of Special Flood Hazard, with no base flood elevations known. Encroachment in the floodplain will be restricted in Zone A and the existing highway profile must be maintained; in Zone X, there are no restrictions.

Due to time constraints, a preliminary drainage report was not prepared for this project. It is assumed that all culverts within the project limits will need to be replaced and that all reinforced box culverts can be extended both upstream and downstream to accommodate the widened highway.

8. Right of Way

A Right of Way Data Sheet was prepared for this project to identify potential impacts; see *Attachment G* for more information. All work will be performed within the existing right of way; however, both alternatives will require Temporary Construction Easements for bridge work, staging, and possible utility relocations.

9. Other Agencies Involved

Coordination with Sutter County is recommended to avoid potential conflicts with other projects. Coordination with the Department of Fish and Game, the Regional Water Quality Control Board, the Army Corps of Engineers will be required for this project.

10. Other Considerations

Materials and/or Disposal Site Needs and Availability

Surplus material or grindings generated by the project will become the property of the contractor. AC grindings shall be handled and disposed of in accordance with local, state and federal laws and regulations.

Consistency with Other Planning

A project to signalize the intersection of SR 20 and Acacia Avenue (03-1F02) is expected to be completed in the fall of 2011. This project should remove the overlapping work at this intersection since the pavement will be rehabilitated in the signalization project.

A pavement rehabilitation project (03-1F470) from just east of North Humphrey Road to just west of the Yuba/Sutter County Line (PM 11.2 to 17.0) is currently advertised for bids.

Salvaging and Recycling of Hardware and Other Non-Renewable Resources

The contractor should salvage and recycle hardware when that option is available.

Recycling of AC

The contractor may at his or her discretion recycle the AC grindings.

11. Proposed Funding/Project Support

The funding source for this project is the 2010 SHOPP from the 20.XX.201.120 Roadway

Rehabilitation program. See *Attachment I* for project schedule and support costs.

12. List of Project Contacts

Title	Name
Project Manager	Ali Kiani
Design Engineer	Isam Tabshouri
Project Engineer	Molly Richard
District Pavement Maintenance Engineer	Rex Hervey
Structures Liaison Engineer	Moe Amini
Right of Way Agent	Kelly Kilpatrick
Environmental	Tammy Massengale
Hazardous Waste	Jason Lee
Traffic Management Planning	Sam Batakji

13. List of Attachments

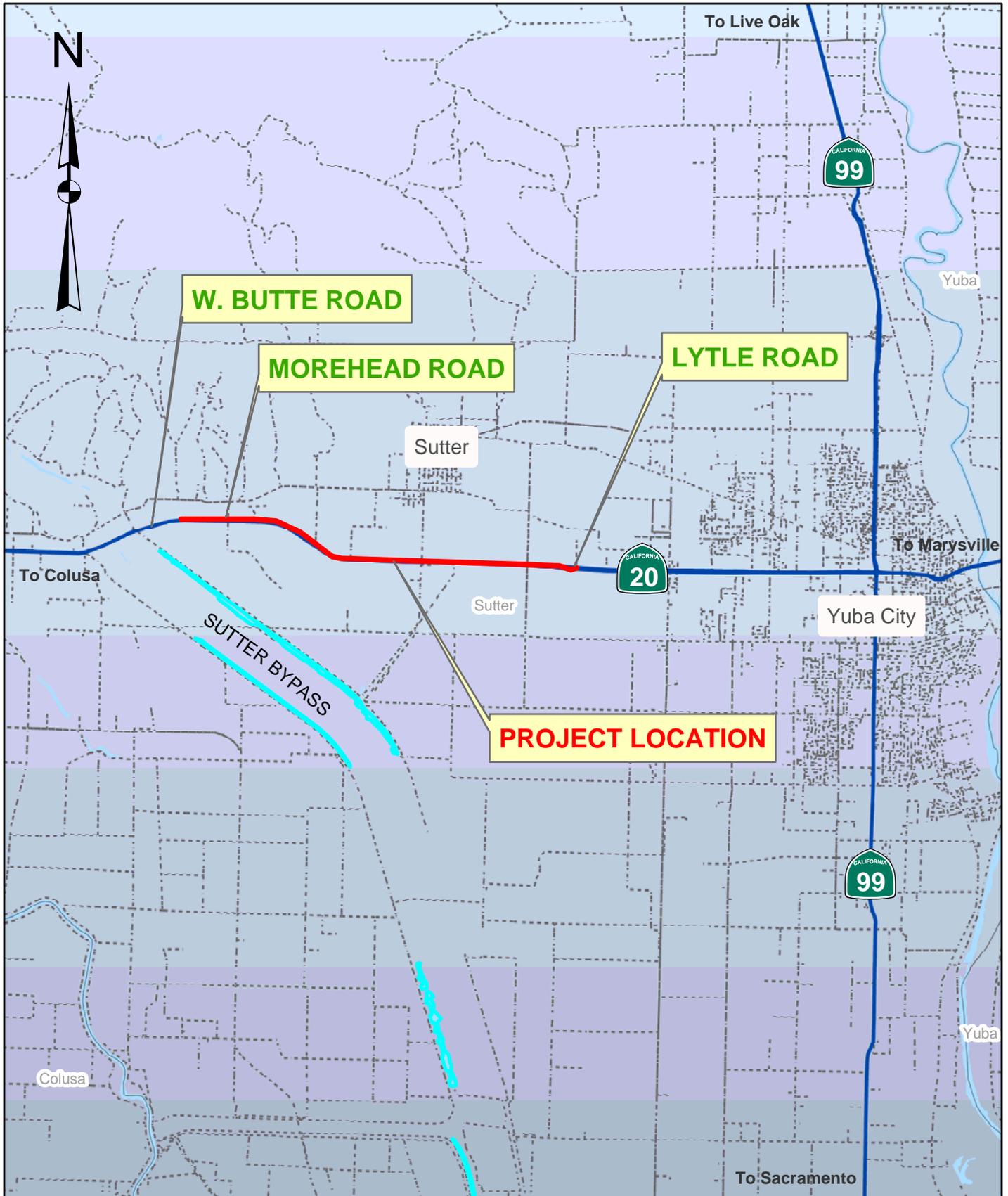
- A. Location Map
- B. Typical Cross Sections and Layouts
- C. HQ Structures Ballpark Cost Estimate Memo
- D. Traffic Management Plan Data Sheet
- E. Mini Preliminary Environmental Analysis Report
- F. Initial Site Assessment
- G. Right of Way Data Sheet
- H. Cost Estimate Breakdown
- I. Programming Sheet

ATTACHMENT A
LOCATION MAP

LOCATION MAP

SUT 20- Sutter Bypass to Lytle Road

SUT-20 PM 5.4/11.1 EA 1A920K



ATTACHMENT B
TYPICAL CROSS SECTIONS AND LAYOUTS

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

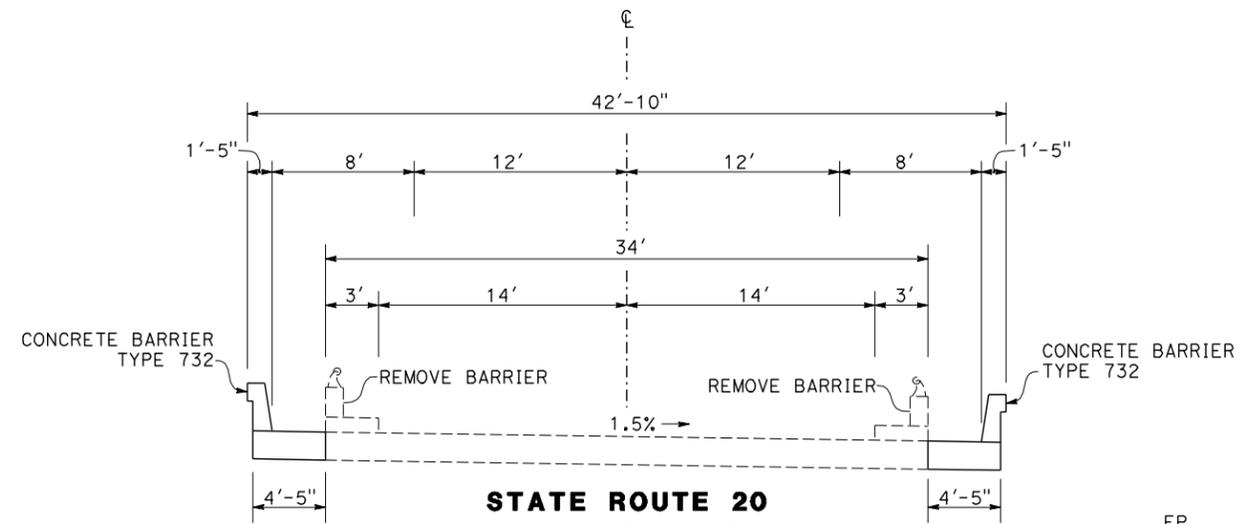
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INCOMPLETE PLANS

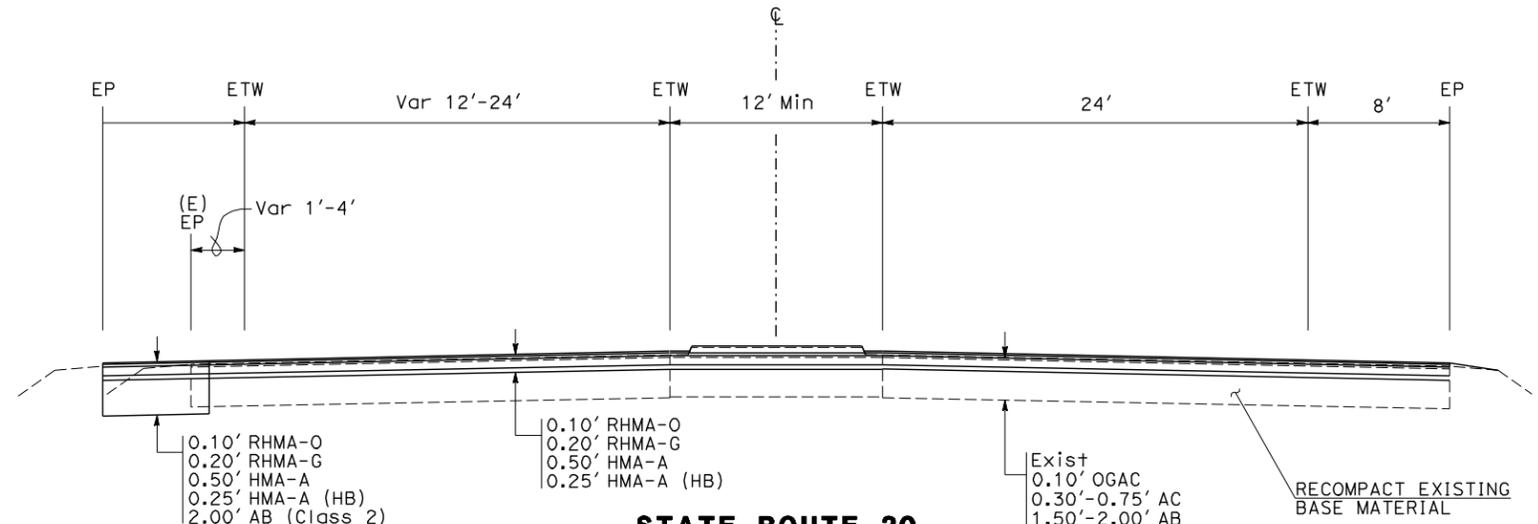
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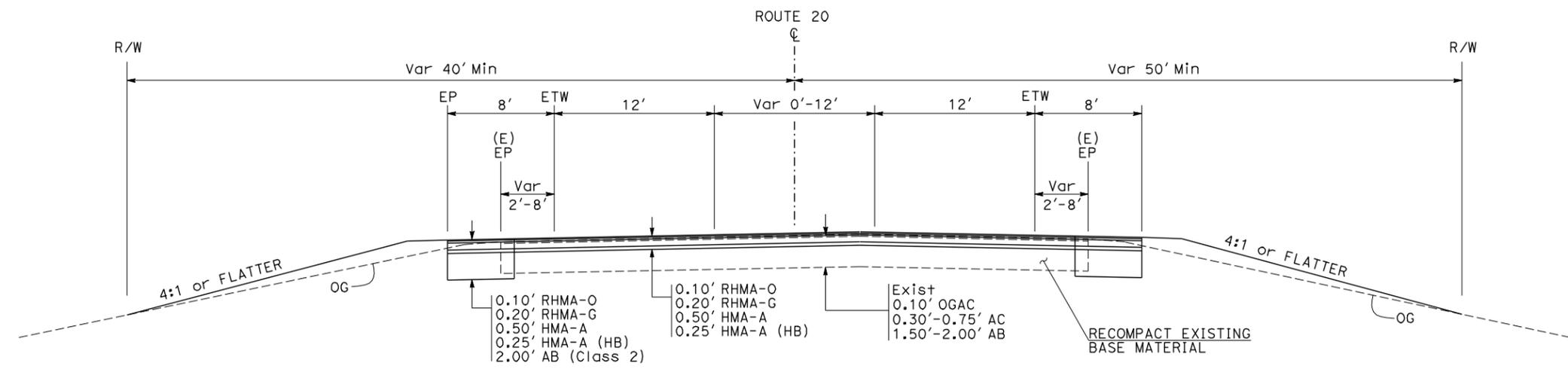
STATE OF CALIFORNIA CIVIL



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



STATE ROUTE 20
PM 10.8 TO 11.1



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 BY DATE
DESIGNED BY CHECKED BY

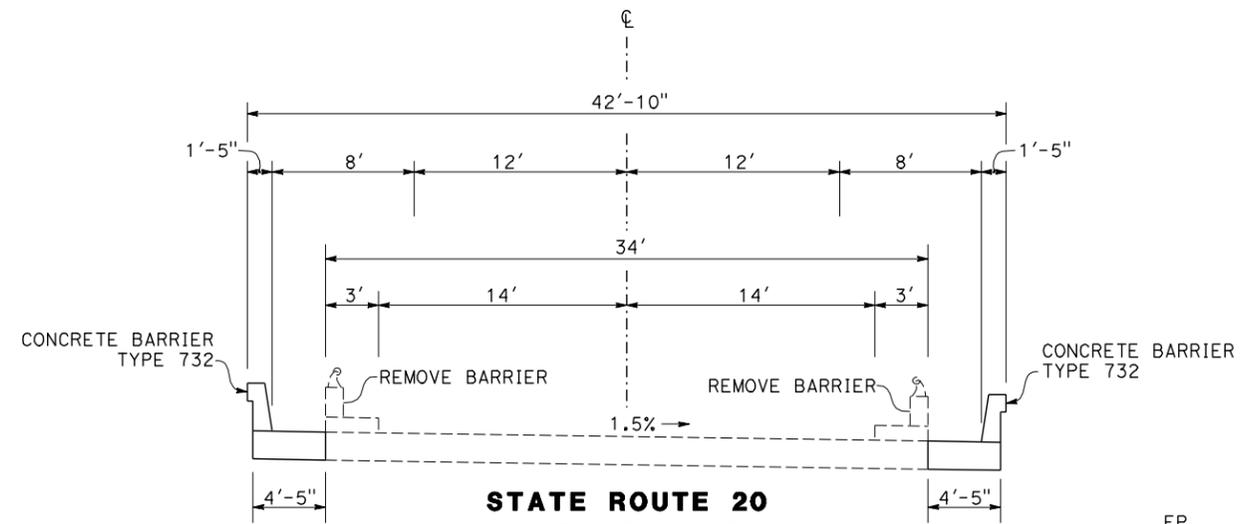
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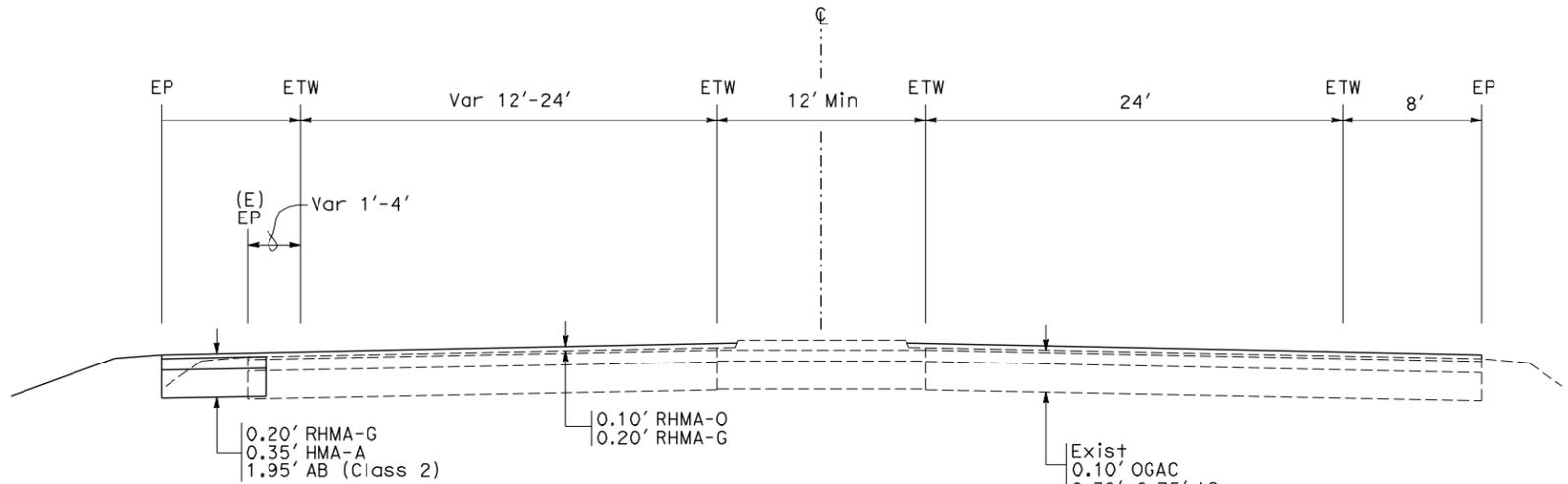
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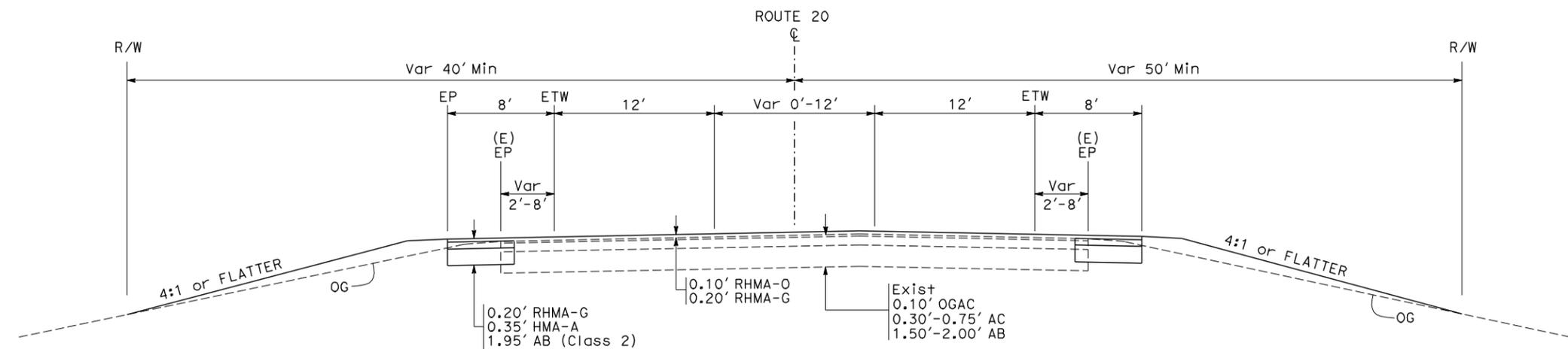
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STATE ROUTE 20
WIDEN STRUCTURE
WADSWORTH CANAL
Br. No. 18-3



STATE ROUTE 20
PM 10.8 TO 11.1



STATE ROUTE 20
PM 5.4 TO 10.8

ALTERNATIVE 2
TYPICAL CROSS SECTIONS
NO SCALE

X-2

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

FUNCTIONAL SUPERVISOR
ISAM TABSHOURI

REVISOR BY
DATE

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CHECKED BY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ADVANCE PLANNING
 FUNCTIONAL SUPERVISOR
ISAM TABSHOURI

NOTES:
 1. FOR ACCURATE RIGHT OF WAY, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

- LEGEND:
- Existing Alignment
 - Existing R/W
 - Proposed Temporary Construction Easement
 - Proposed Temporary Staging Area
 - Utility Pole (Power) to be Relocated
 - Possible Tree Removal

CURVE DATA

No. ⊕	R	Δ	T	L
1	6700'	17°57'03"	1058.22'	2099.10'



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

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PLANS APPROVAL DATE

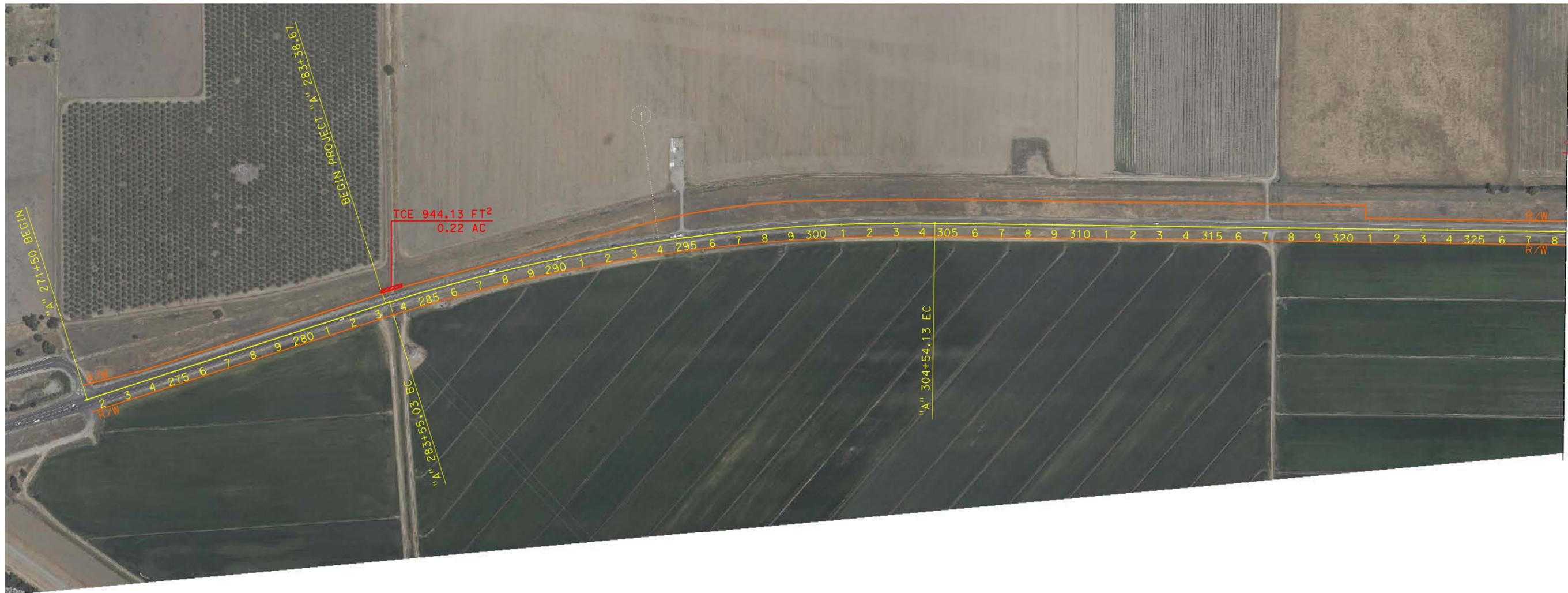
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LAYOUT
 SCALE: 1" = 200'

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Caltrans ADVANCE PLANNING
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ISAM TABSHOURI
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CURVE DATA

No. Ⓢ	R	Δ	T	L
2	5000'	33°47'26"	1518.67'	2948.79'

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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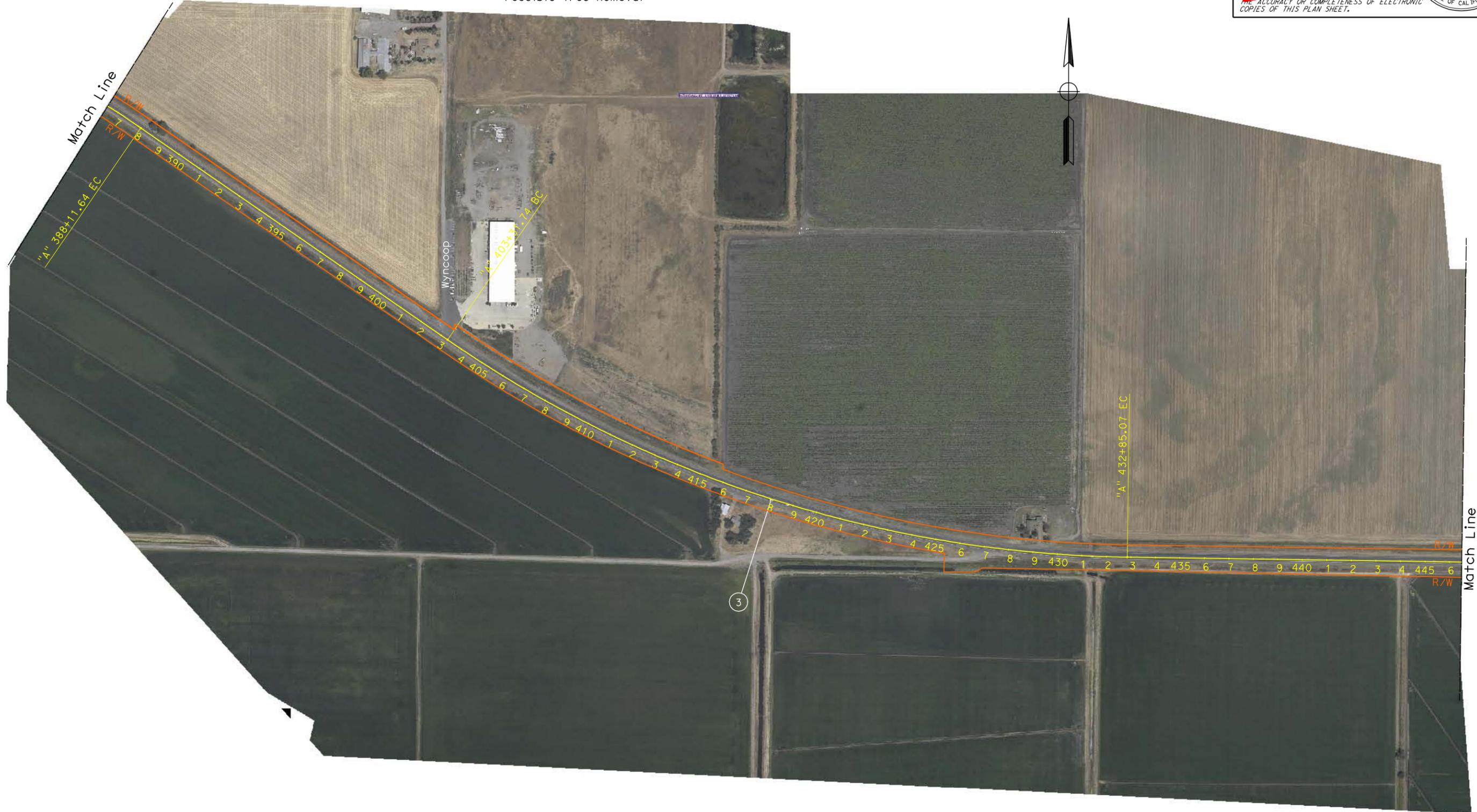
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CURVE DATA

No. Ⓢ	R	Δ	T	L
3	5020'	33°42'28"	1520.78'	2953.33'

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Caltrans	ISAM TABSHOURI	CHECKED BY	DATE REVISION
ADVANCE PLANNING			

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Exp. No.

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STATE OF CALIFORNIA



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Caltrans	ISAM TABSHOURI	CHECKED BY	DATE
ADVANCE PLANNING			

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03	Sut	20	5.4/11.1		

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INCOMPLETE PLANS

PLANS APPROVAL DATE

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LAYOUT
SCALE: 1" = 200'

ATTACHMENT C
HQ STRUCTURES BALLPARK COST ESTIMATE MEMO

Memorandum

*Flex your power!
Be energy efficient!*

To: MOLLY RICHARD
Office of Advance Planning
North Region
District 03

Date: February 17, 2011
File: 03-SUT-20-PM
Bridge Widening
03-1A920K
0300020608

From: MOE AMINI
Technical Liaison Engineer
Bridge Design North
Division of Engineering Services

Subject: Ballpark Cost Estimate

As you requested by e-mail on 2/14/2011, a Ballpark Cost Estimate has been prepared for widening of Wadsworth Canal as shown on the typical section you provided. I also included Ballpark Cost Estimate for bridge replacement in case District decided to replace this structure with a similar type structure.

The estimated construction cost, include 10% time related overhead, 10% mobilization and 40% contingency.

Alternative 1

Ballpark Cost Estimate

Widening of existing structure, 4'-5" each side \$548,000

Alternative 2

Replacement with new Slab or T girder structure \$3,000,000
(Assume 48' wide bridge to accommodate for two stage construction)

Bridge removal \$65,000

If you have any questions, please call me at 916-227-8797

c: T Ostrom
J Young

ATTACHMENT D
TRAFFIC MANAGEMENT PLAN DATA SHEET

Memorandum

To: Molly Richard, PE
Office of Advance Planning

Date: March 10, 2011

EA: 03-1A920K
03-Sut-20-PM 5.4/11.1
Pavement Rehab

From: Sam Batakji
TMP Coordinator

Subject: Transportation Management Plan (TMP) Data Sheet

Background

- This project is on SR 20, a 2-lane, 2-way highway located in Sutter County from Sutter Bypass to Lytle Road with daily peak-hour volume (both directions combined) of 800 vph and AADT of 8,500 vpd (2009 Traffic Volumes on California State Highways). The project proposes to rehab the pavement and widen the shoulders. Wadsworth Canal Bridge at PM 9.8 will also be widened to accommodate standard shoulders.

Recommendation

- On SR 20, a minimum of one paved traffic lane, not less than 11 ft wide, shall be open for use by public traffic with one-way traffic control using flaggers, in accordance with Standard Plan Sheet T13. Lane and shoulder closures will be allowed during daytime hours on weekdays, but may be restricted during peak commute hours.
- If the multilane section at the east end of the project included, one lane in each direction of travel must remain open at all times. Lane and shoulder closures will be allowed during daytime hours on weekdays.
- When closures occur inside or within 200 feet of an intersection, flaggers will need to be deployed to control all legs of the intersection.
- No lane closures or other traffic restrictions will be allowed on designated legal holidays and the day preceding designated legal holidays; and when construction operations are not actively in progress.
- Access to cross streets shall be maintained during construction.
- Coordinating with projects adjacent to or within the limits of this project will be required to avoid conflicts.

- Due to safety consideration, work at this location may require the assistance of COZEEP but not a full time presence.
- Portable changeable message signs (PCMS) will be required in both directions of traffic during construction for each lane or shoulder closure.
- Detailed lane closure charts will be developed for the final TMP prior to P&E.

Cost

- For estimating purpose, the cost of Traffic Management Plan (TMP) items can be estimated at \$2,500 per working day when traffic control systems are anticipated to be utilized. Traffic Management Plan (TMP) items should be considered to include the following items: Traffic Control Systems, Portable Changeable Message Signs, Maintain Traffic, and TMP-Public Information.
- Additionally, COZEEP is estimated at \$1,000 per working day and \$2,000 per working night whenever CHP involvement is needed during construction. COZEEP is at the discretion of the Engineer, but should be expected for the number of days where lane closures are to be performed.
- If there is a change in the scope of the project or the order of work (schedule), please advise the TMP unit, as this may affect the TMP estimate.

P & E Requirement

To complete a TMP for this project, please provide the following to the Office of Traffic Management Planning at least three months prior to P&E: project description, title sheet, typical cross sections, layout sheets, construction cost estimates, number of working days, project schedule, and a contact person.

Needed Resources

TMP office will need the following resources to complete our work:

Activity 160	60 hours
Activity 230	120 hours
Activity 255	20 hours
Activity 265	10 hours
Activity 270	10 hours
Activity 285	4 hours

Attachments: TMP Data Sheet Checklist

D-3 TRANSPORTATION MANAGEMENT PLAN CHECKLIST

District / EA: 03-1A920K
 Date Prepared: 03/10/11
 Prepared By: Sam Batakji
Stage of Project (X box)

PID PSR PR PS&E

Co.-Rte.-PM SUT-20-5.4/11.1
 Location:

Description: Pavement Rehab

1.0 Public Information Strategies

- 1.1 Brochures and Mailers
- 1.2 Media Releases (& minority media sources)
- 1.3 Paid Advertising
- 1.4 Public Information Center
- 1.5 Public Meetings/Speakers Bureau
- 1.6 Project Telephone Hotline
- 1.7 Internet, E-Mail
- 1.8 Local cable TV and News
- 1.9 Notification to Impacted groups
 (i.e. bicycle users, pedestrians with disabilities, others)
- 1.10 Project Web Page
- 1.11 Caltrans Public Information Office
- 1.12 Consultant Public Information Office
- 1.13 Other items

REQUIRED	RECOMMENDED	NOT APPLICABLE	BEES Item No.	COMMENTS	UNIT COST	REQUIRED IN SPEC.
	<input checked="" type="checkbox"/>			Per recommendation of PIO		<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/>					
	<input checked="" type="checkbox"/>					
	<input checked="" type="checkbox"/>		066063			
	<input checked="" type="checkbox"/>					
	<input checked="" type="checkbox"/>					
	<input checked="" type="checkbox"/>					
	<input checked="" type="checkbox"/>					
	<input checked="" type="checkbox"/>					
	<input checked="" type="checkbox"/>		066063			
	<input checked="" type="checkbox"/>					
	<input checked="" type="checkbox"/>					

2.0 Traveler Information Strategies

- 2.1 Changeable Message Signs (permanent)
- 2.2 Changeable Message Signs (portable)
- 2.3 Special Construction Signs
- 2.4 Traveler Information Systems (CHIN/Internet)
- 2.5 Highway Advisory Radio "HAR" (fixed or mobile)
- 2.6 Radar Speed Sign
- 2.7 Traffic Management Team
- 2.8 Revised Transit Schedules/ Maps
- 2.9 Bicycle community information
- 2.10 Other item

	<input checked="" type="checkbox"/>					
<input checked="" type="checkbox"/>			128650	Per SSP's/RE/Contractor/\$125/WD		<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/>		120690			
	<input checked="" type="checkbox"/>		861985			
	<input checked="" type="checkbox"/>		860520			
	<input checked="" type="checkbox"/>		066064			
	<input checked="" type="checkbox"/>					
	<input checked="" type="checkbox"/>					
	<input checked="" type="checkbox"/>					
	<input checked="" type="checkbox"/>					

3.0 Incident Management

- 3.1 COZEEP
- 3.2 Freeway Service Patrol (tow truck service patrol)
- 3.3 Traffic Surveillance Stations (loops or CCTV)
- 3.4 Transportation Management Center
- 3.5 Traffic Control Inspector (Caltrans)
- 3.6 Traffic Management Team
- 3.7 On-site Traffic Advisor (contractor)
- 3.8 Other Items

<input checked="" type="checkbox"/>			066062	\$1000/day & \$2000/night		<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/>		066065			
	<input checked="" type="checkbox"/>		066876			
	<input checked="" type="checkbox"/>					
	<input checked="" type="checkbox"/>					
	<input checked="" type="checkbox"/>					
	<input checked="" type="checkbox"/>					

4.0 Construction Strategies

- 4.1 Delay damage clause
- 4.2 Night work
- 4.3 Weekend Work
- 4.4 Extended Weekend Closures
- 4.5 Planned Lane Closures
- 4.6 Planned Ramp/Connector Closures
- 4.7 Total Facility Closure
- 4.8 Project Phasing
- 4.9 Truck Traffic Restrictions
- 4.10 Reduced Lane Widths

	<input checked="" type="checkbox"/>					
<input checked="" type="checkbox"/>				Per Lane Closure Charts		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>				Per Lane Closure Charts		<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/>					
	<input checked="" type="checkbox"/>					
	<input checked="" type="checkbox"/>					
	<input checked="" type="checkbox"/>					
	<input checked="" type="checkbox"/>					
	<input checked="" type="checkbox"/>					
	<input checked="" type="checkbox"/>					

		REQUIRED	RECOMMENDED	NOT APPLICABLE	BEEES Item No.	COMMENTS	UNIT COST	REQUIRED IN SPEC.
4.0	Construction Strategies (Continued)							
	4.11 Temporary K-Rail			X	129000			
	4.12 Temporary Traffic Screens			X	129150			
	4.13 Reduced Speed Zones			X				
	4.14 Traffic Control Improvements			X				
	4.15 Contingency Plans	X						X
	4.15.1 Material Plant on standby			X				
	4.15.2 Extra Critical Equipment on site			X				
	4.15.3 Material Testing Plan			X				
	4.15.4 Alternate Material on site (In case of failure or major delays)			X				
	4.15.5 Emergency Detour Plan		X					
	4.15.6 Emergency Notification Plan		X					
	4.15.7 Weather Conditions Plan			X				
	4.15.8 Delay Timing and Documentation Plan			X				
	4.15.9 Late Closure Reopening Notification			X				
	4.16 Signal timing modification			X				
	4.17 Coordination with adjacent construction	X						X
	4.18 Double Fine Zone (signs)			X				
	4.19 Right of Way Delay			X	066022			
	4.20 Other Items			X				
5.0	Demand Management							
	5.1 HOV Lanes/Ramps			X				
	5.2 Ramp metering			X				
	5.3 Park-and-Ride Lots			X				
	5.4 Parking Management/Pricing			X				
	5.5 Rideshare Incentives			X				
	5.6 Rideshare Marketing			X	066069			
	5.7 Transit, Train, or Light-Rail Incentives			X	066066			
	5.8 Transit Service Modification			X				
	5.9 Variable Work Hours			X				
	5.10 Telecommute			X				
	5.11 Other Items			X				
6.0	Alternate Route Strategies							
	6.1 Ramp Closures			X				
	6.2 Street Improvements			X				
	6.3 Reversible Lanes	X				Per Lane Closure Charts		X
	6.4 Temporary Lanes or Shoulders Use			X				
	6.5 Freeway to freeway connector closures			X				
	6.6 Encroachment Permit from City/County			X				
7.0	Other Strategies							
	7.1 Application of new technology			X				
	7.2 Other Items			X				

Comments:

ATTACHMENT E
MINI PRELIMINARY ENVIRONMENTAL ANALYSIS REPORT

Mini-Preliminary Environmental Analysis Report

Project Information

District 03 County SUT Route 20 Post Mile 5.4/11.1 EA 03-1A920

Project Title: SUT 20 Widen Shoulders and Pavement Rehabilitation

Project Manager Ali Kiani Phone # 530-741-4587

Project Engineer Molly Richard Phone # 530-741-5746

Environmental Branch Chief Tammy Massengale Phone # 530-741-4041

Project Description

Purpose and Need: This project proposes to upgrade the roadway geometrics to current standards which will include shoulder widening and rehabilitate the existing pavement to extend the service life of the pavement. The existing shoulder widths do not meet current design standards and the existing pavement is exhibiting signs of distress and will further deteriorate without action.

Description of work: The pavement will be rehabilitated and the shoulders will be widened. In addition, Wadsworth Canal (PM 9.8) will be widened to accommodate standard shoulder widths. The proposed project includes the following work: pavement grinding, dig outs, crack sealing, saw cutting, new structural section, driveways, ground-in rumble strips, removal and replacement of dikes, new and/or reset metal beam guardrail, shoulder backing, thermoplastic striping, replacing and/or lining culverts, rock slope protection, roadway excavation, embankment, remove and replace fencing, temporary K railing and utility relocation and structure widening.

Anticipated Environmental Approval

CEQA

Initial Study with Negative Declaration

NEPA

Categorical Exclusion

Summary Statement

In order to identify environmental issues, constraints, costs and resource needs, a mini-PEAR (Preliminary Environmental Analysis Report) was prepared for the project. Potential construction staging areas and disposal/borrow sites will need to be identified in the PA&ED phase for environmental review. A brief field review was performed by a biologist. There is a possibility of impacts to biological resources. All other technical reviews were completed using data searches.

It is anticipated an Initial Study with Negative Declaration and a Categorical Exclusion will apply to this project. Based on existing workload and available resources, it is anticipated to take 18 months to complete the environmental process. If possible, Environmental Planning would like to receive the ESR no later than February of a given year in order to complete spring surveys.

Special Considerations

Biology: Rural homes, rice fields, hay fields, wet ditches, orchards, fallow fields and vineyards are common within the project limits. Wildlife that was observed in the project area included American crow, red-winged black birds, starlings, American kestrel, turkey vulture, western meadowlark, blacktail jackrabbit, and Brewer's blackbirds. Raccoons, barn owl and striped skunk were found dead on the side of the road.

The project area may support habitat for the giant garter snake (GGS), California tiger salamander, vernal pool fairy shrimp, Swainson's hawk, western yellow-billed cuckoo, valley elderberry longhorn beetle, greater sandhill crane, California black rail, vernal pool tadpole shrimp, Hartweg's golden sunburst and bank swallow. These species are known to occur in Sutter County and are protected by State and Federal agencies.

Vegetation observed in the project area included valley oak, almond trees, wild radish, tall verain, Fremont cottonwood, cedar trees, sedge, Himalayan blackberry, oats, oleander, willow, bull rush, olive trees, pyracanthas, pennyroyal, pine, wild mustard and teasel.

Specific field surveys will be required to determine the presence and extent of water features that fall under the jurisdiction of the U.S. Army Corps of Engineers (USACE), Regional Water Quality Control Board (RWQCB) and the California Department of Fish and Game (CDFG). Specific field surveys should also be conducted to determine the presence of GGS, tricolored black birds, vernal pool fairy shrimp, California tiger salamander, Swainson's hawk, vernal pool tadpole shrimp and other listed species.

Consultation with U.S. Fish and Wildlife Service (USFWS) and the CDFG will be required to fully determine if this project will impact the GGS or any other protected plant or wildlife species and what mitigation may be necessary. Consultation with the USACE will also be required to determine the extent of impacts to jurisdictional waters and waters of the U.S. and the type of necessary mitigation.

Under the current scope of the project, the following permits are anticipated:

- A Clean Water Act 404 Permit (issued by the U.S. Army Corps of Engineers)
- A Clean Water Act 401 certification (issued by the Regional Water Quality Control Board)
- A California Department of Fish and Game 1600 Streambed Alteration Agreement

Biological compensation and mitigation estimates are provided as an attachment to the mini-PEAR.

Archaeology: Cultural resource reports for previous projects constructed along SR 20 in the project vicinity and the internal Caltrans TEA Database were consulted for this project. The only cultural resource identified during the background search was a historic monument, identifying the origins of the Thompson Seedless Grape, located at South Ridge Road. It is possible that the proposed project can be screened under the Programmatic Agreement. However, if the historic monument needs to be relocated, a Phase I Identification study will be required.

Hazardous Waste: An ISA was completed for this project. The potential for hazardous waste exists within the ESL. The following contaminants have been identified: Aerially Deposited Lead (ADL), lead and chromium contained in the yellow traffic striping, treated wood waste (wooden posts), and Asbestos Containing Materials in the bridge shims. A Site Investigation (SI) to determine the amount of ADL within the project limits will be required.

Water Quality: During project delivery, the project area should be evaluated for potential water quality impacts. We are required to adhere to the conditions of the Caltrans Statewide NPDES Permit CAS No. 000003. It is important that appropriate Construction Site BMPs are deployed during construction activities to avoid/minimize impacts. If site dewatering is required, a dewatering plan is required.

Air: This project is anticipated to be exempt from all air quality conformance analysis requirements. A technical memo will be prepared during PA&ED.

Noise: This project is not anticipated to require a project level noise analysis. A technical memo will be prepared during PA&ED.

Visual Resources: Due to the time constraints, input from Landscaping staff for this analysis was not completed.

Disclaimer

This report is not an environmental document. The above recommendations are based on the project description provided in this report. The discussion and conclusions provided by this mini-PEAR are approximate and are based on field reviews and record reviews to estimate the potential for probable effects. The purpose of this report is to provide a preliminary level of environmental analysis to supplement the Project Initiation Document. Changes in project scope, alternatives, or environmental laws will require a re-evaluation of this report.

Prepared by:

Tammy Massengale
Tammy Massengale, Chief, Office of Environmental Support

Date: 3/11/11

Reviewed by:

Ali Kiani
Ali Kiani, Project Manager

Date: 3/11/11

PEAR Environmental Commitments Cost Estimate

Dist.-Co.-Rte.-KP/PM: 03 SUT 20 5.4/11.1 EA: 03-1A920

Project Description: This project proposes to upgrade the roadway geometrics to current standards for design speed of 55 mph and rehabilitate the existing pavement to extend the service life of the pavement. The existing vertical alignment and shoulder widths do not meet current design standards and the existing pavement is exhibiting signs of distress and will further deteriorate without action.

Person completing form/District Office: Tammy Massengale, North Region
Office of Environmental Support

Project Manager: Ali Kiani Phone number: 530-741-4587

	Compensation/ Mitigation	Permit & Agreement
Fish & Game 1600 Agreement	\$ 10,000	\$ 8,500
Coastal Development Permit		
State Lands Agreement		
Section 401 RWQCB Permit		\$ 1,000
COE 404 Permit- Nationwide	\$ 10,000	
COE 404 Permit- Individual		
COE Section 10 Permit		
COE Section 9 Permit		
Other:		
Oak Compensation		
Special landscaping		
Archaeological		
Biological		
Historical ¹	\$ 20,000	
Scenic resources		
Wetland/riparian		
TOTAL (Enter zeros if no cost)	\$ 40,000	\$ 9,500

¹ These funds will come from the Construction contract – 042.

ATTACHMENT B - Resources by WBS Code

EA: 03-1A920

Description: SUT 20 Widen Shoulders and Pavement Rehabilitation

WBS Task Activity Code	Senior/ Coord	Biology	Cultural	Haz Waste	Socio- Economic	Storm Water	Noise/Air	Sup Svcs	Const. Liaison	Total
Assigned Unit	183	183	183	349	183	349	349	183	183	
Project Management										
100.10.05 – PA&ED Init. & Plng.						12				12
100.10.10 – PA&ED Exec. & Ctrl.	11	11	11					28		61
100.10.15 – PA&ED Closeout										-
100.10.20 – PA&ED Project Shelving										-
100.10.25 – PA&ED Project Unshelving										-
100.10.30 – PA&ED Update Admin Record										-
100.10.35 – PA&ED Cooperative Agreement										-
100.10.99 – PA&ED Other Proj. Mgmt. Products										-
100.15.05 – PS&E Init. & Plng.						12				12
100.15.10 – PS&E Exec. & Ctrl.	10	20	20					20		70
100.15.15 – PS&E Closeout										-
100.15.20 – PS&E Project Shelving										-
100.15.25 – PS&E Project Unshelving										-
100.15.30 – PS&E Update Admin Record										-
100.15.35 – PS&E Cooperative Agreement										-
100.15.99 – PS&E Other Proj. Mgmt. Products										-
100.20.05 – Const. Init. & Plng.						12				12
100.20.10 – Const. Exec. & Ctrl.	10	20	20					13		63
100.20.15 – Const. Closeout										-
100.20.20 – Const. Project Shelving										-
100.20.25 – Const. Project Unshelving										-
100.20.30 – Const. Update Admin Record										-
100.20.35 – Const. Cooperative Agreement										-
100.20.99 – Const. Other Proj. Mgmt. Products										-
100.25.05 – RW Init. & Plng.										-
100.25.10 – RW Exec. & Ctrl.										-
100.25.15 – RW Closeout										-
100.25.20 – RW Project Shelving										-
100.25.25 – RW Project Unshelving										-
100.25.30 – RW Update Admin Record										-
100.25.35 – RW Cooperative Agreement										-
100.25.50 – RW Ex. Coop. Agree. Relinquish										-
100.25.99 – RW Other Proj. Mgmt. Products										-
Total Project Management	31	51	51	-	-	36	-	61	-	230
Preliminary Engineering Studies and Draft Project Report										
160.05.05 – Approved PID Review	3					4				7
160.05.10 – Geotechnical Information Review										-
160.05.20 – Traffic Data & Forecasts Review										-
160.05.30 – Project Scope Review										-
160.05.99 – Other Updated Project Info Products										-
160.10.20 – Value Analysis										-
160.10.25 – Hydraulics/Hydrology Study										-
160.10.30 – Hwy Planting Design Concepts										-
160.10.40 – Updated Right of Way Data Sheets										-
160.10.99 – Other Engineering Studies										-
160.15.20 – Draft Project Report										-
160.15.25 – Draft PR Circ., Review & Approval	5					4				9
160.30.05 – Maps for ESR	5									5
160.30.10 – Surveys & Mapping for ESR	5									5
160.30.15 – Prop. Access Rights - Env/Eng Studies	5									5
160.40 – NEPA Delegation	5							2		7
Total Pre. Eng. Studies & Draft PR	28	-	-	-	-	8	-	2	-	38
Environmental Studies and Draft Environmental Document - Task Management Activities										
165.05.05 – Project Information Review	3	40	40							83
165.05.10 – Pub & Agency Scoping Process	8									8
165.05.15 – Alternatives for Further Study	4									4
165.05.99 – Other Env Scoping Alt ID in PID	20									20
165.10.15 – CIA, Land Use & Growth Studies										-
165.10.20 – VIA & Scenic Resource Evaluation										-
165.10.25 – Noise Study							16			16
165.10.30 – Air Quality Study							16			16

EA: 03-1A920

Description: SUT 20 Widen Shoulders and Pavement Rehabilitation

WBS Task Activity Code	Senior/Coord	Biology	Cultural	Haz Waste	Socio-Economic	Storm Water	Noise/Air	Sup Svcs	Const. Liaison	Total
Assigned Unit	183	183	183	349	183	349	349	183	183	
165.10.35 – Water Quality Studies						150				150
165.10.40 – Energy Studies										-
165.10.45 – Summary Geotech Report										-
165.10.50 – Hazardous Waste PSI				120						120
165.10.55 – Draft RW Relocation Impact Doc.										-
165.10.60 – Loc. Hyd. & Floodplain Stdy Rpts.										-
165.10.65 – Paleontology Study										-
165.10.70 – Wild and Scenic Rivers Coordination										-
165.10.75 – Environmental Commitments Record										-
165.10.99 – Other Environmental Studies										-
165.15.05 – Biological Assessment		173								173
165.15.10 – Wetlands Study		320								320
165.15.15 – Resource Agcy Permit Related Coord		173								173
165.15.20 – NES Report		320								320
165.15.99 – Other Biological Studies		173								173
165.20.05 – Archaeological Survey										-
165.20.05.05 – APE/Study Area Map(s)			16							16
165.20.05.10 – Native American Consultation			16							16
165.20.05.15 – Records & Literature Search			7							7
165.20.05.20 – Field Survey			32							32
165.20.05.25 – ASR			25							25
165.20.05.99 – Other Archy Survey Products										-
165.20.10 – Extended Phase I Archy Studies										-
165.20.10.05 – Native American Consultation										-
165.20.10.10 – Extended Phase I Proposal										-
165.20.10.15 – Extended Phase I Field Inv.										-
165.20.10.20 – Extended Phase I Mat. Analysis										-
165.20.10.25 – Extended Phase I Report										-
165.20.10.99 – Other Ext Phase I Archy Prod										-
165.20.15 – Phase II Archy Studies										-
165.20.15.05 – Native American Consultation										-
165.20.15.10 – Phase II Proposal										-
165.20.15.15 – Phase II Field Investigation										-
165.20.15.20 – Phase II Materials Analysis										-
165.20.15.25 – Phase II Report										-
165.20.15.99 – Other Ext Phase II Archy Study										-
165.20.20 – Hist & Architect Resource Studies										-
165.20.20.05 – Prelim APE/SAM for Arch.										-
165.20.20.10 – HRER - Archaeology										-
165.20.20.15 – HRER - Architecture										-
165.20.20.20 – Bridge Evaluation										-
165.20.20.99 – Other Hist and Arch Resource Prod										-
165.20.25 – Cultural Res. Comp. Cons. Docs.										-
165.20.25.05 – Final APE/Study Area Maps										-
165.20.25.10 – PRC 5024.5 Consultation										-
165.20.25.15 – HPSR/HRER										-
165.20.25.20 – Finding of Effect (FOE)										-
165.20.25.25 – Archy Data Rec. Pln./Treat. Pln										-
165.20.25.30 – MOA										-
165.20.25.99 – Other CR Compliance Consult Prod										-
165.25.05 – DED Analysis	143									143
165.25.10 – Section 4(f) Evaluation	24									24
165.25.15 – CE/CE Determination	9									9
165.25.20 – Env. Quality Ctrl. & Other Reviews	6	25	25					30		86
165.25.25 – Approval to Circulate Resolution	3									3
165.25.30 – Environmental Coordination	43									43
165.25.99 – Other Draft ED Products										-
165.30 – NEPA Delegation	20		5							25
Total Environmental Studies & DED	283	1,224	166	120	-	150	32	30	-	2,005
Permits, Agreements, and Route Adoptions during PA&ED Component - Task Management Activities										
170.05 – Required Permits										-
170.10.05 – USACE Permit (404)										-
170.10.10 – US Forest Service Permit(s)										-
170.10.15 – US Coast Guard Permit										-
170.10.20 – DFG 1600 Agreement(s)										-
170.10.25 – Coastal Zone Development Permit										-
170.10.30 – Local Agency Concurrence/Permit										-

EA: 03-1A920

Description: SUT 20 Widen Shoulders and Pavement Rehabilitation

WBS Task Activity Code	Senior/Coord	Biology	Cultural	Haz Waste	Socio-Economic	Storm Water	Noise/Air	Sup Svcs	Const. Liaison	Total
Assigned Unit										
170.10.40 – Waste Discharge (NPDES) Permit(s)	183	183	183	349	183	349	349	183	183	-
170.10.45 – USFWS Approval										-
170.10.50 – RWQCB 401 Permit										-
170.10.60 – Environmental Commitments Record										-
170.10.95 – Other Permits										-
170.45 – MOU from TERO										-
170.10.55 – NEPA Delegation										-
Total Permits, Agreements & Route Adoptions	-	-	-	-	-	-	-	-	-	-
Draft Environmental Document Circulation and Preferred Project Alternative Identification - Task Management Activities										
175.05.05 – Master Dist & Inv Lists	18									18
175.05.10 – Notices Regarding Hearing & DED	29									29
175.05.15 – DED Publication & Circulation										-
175.05.20 – Federal Consistency Det. (Coastal)										-
175.05.99 – Other DED Circulation Products										-
175.10.05 – Need for Public Hearing Det.										-
175.10.10 – Public Hearing Logistics										-
175.10.15 – Displays for Public Hearing										-
175.10.20 – 2 nd Not. Pub. Hear. & Avail. of DED										-
175.10.25 – Map Display & Pub. Hearing Plan										-
175.10.30 – Display Public Hearing Maps										-
175.10.35 – Public Hearing	3									3
175.10.40 – Record of Public Hearing										-
175.10.99 – Other Public Hearing Products										-
175.15 – Public Comment Res. & Corr.	23									23
175.20 – Project Preferred Alternative										-
175.25 – NEPA Delegation			2							2
Total DED & Preferred Proj. Alt. Identification	73	-	2	-	-	-	-	-	-	75
Project Report and Final Environmental Document										
180.05.05 – Updated Draft Project Report	6									6
180.05.10 – Approved Project Report	14									14
180.05.15 – Updated Storm Water Data Report						4				4
180.05.99 – Other Final Project Report Products										-
180.10.05 – Approved FED	15									15
180.10.05.05 – Draft FED Review										-
180.10.05.10 – Revised Draft FED										-
180.10.05.15 – Section 4(f) Evaluation										-
180.10.05.20 – Findings										-
180.10.05.25 – Statement of Overriding Consid.										-
180.10.05.30 – CEQA Certification										-
180.10.05.35 – FHWA Approval										-
180.10.05.40 – Section 106 Cons. & MOA										-
180.10.05.45 – Section 7 Consult			80							80
180.10.05.50 – Final Section 4(f) Statement										-
180.10.05.55 – Floodplain Only PAF										-
180.10.05.60 – Wetlands Only PAF			80							80
180.10.05.65 – Section 404 Compliance			80							80
180.10.05.70 – Mitigation Measures			80							80
180.10.10 – Public Dist of FED, Resp to Comments	14									14
180.10.99 – Other FED Products								15		15
180.15.05 – ROD (NEPA)										-
180.15.10 – NOD (CEQA)										-
180.15.20 – Environmental Commitments Record	6									6
180.15.99 – Other Completed ED Products										-
180.20 – NEPA Delegation	10		9							19
Total PR & FED	65	320	9	-	-	4	-	15	-	413
Base Maps and Plan Sheets during PS&E Development										
185.05.05 – Project Concept Review						2				2
185.05.10 – Updated Project Information										-
185.05.99 – Other Updated Project Info Products										-
185.15 – Perform Preliminary Design										-
Total Base Maps and Plan Sheets during PS&E	-	-	-	-	-	2	-	-	-	2
Right of Way Property Management and Excess Land										
195.40.20 – Property Maint. & Rehab (Rentable)										-
195.40.25 – Prop. Maint. & Rehab (Non-Rentable)										-

EA: 03-1A920

Description: SUT 20 Widen Shoulders and Pavement Rehabilitation

WBS Task Activity Code	Senior/Coord	Biology	Cultural	Haz Waste	Socio-Economic	Storm Water	Noise/Air	Sup Svcs	Const. Liaison	Total
Assigned Unit										
195.40.30 – HW & Hazardous Materials	183	183	183	349	183	349	349	183	183	-
195.40.35 – Transfer of Prop to Clearance Status										-
195.40.99 – Other Property Mgmt Products										-
195.45.05 – Excess Lands Inventory										-
195.45.20 – Property Disposal up to \$15K										-
195.45.25 – Property Disposal from \$15K to \$500K										-
195.45.30 – Property Disposal over \$500K										-
195.45.99 – Other Excess Land Products										-
Total Base RW Property Mgmt and Excess Land	-	-	-	-	-	-	-	-	-	-
Utility Coordination										
200.15 – Approved Utility Relocation Plan			4							4
200.20 – Utility Relocation Package										
Total Utility Coordination	-	-	4	-	-	-	-	-	-	4
Permits, Agreements & Route Adoptions during PS&E Component - Task Management Activities										
205.05 – Required Permits										-
205.10.05 – USACE Permit (404)		200								200
205.10.10 – US Forest Service Permit(s)										-
205.10.15 – US Coast Guard Permit										-
205.10.20 – DFG 1600 Agreement(s)		200								200
205.10.25 – Coastal Zone Development Permit										-
205.10.30 – Local Agency Concurrence/Permit										-
205.10.40 – Waste Discharge (NPDES) Permit(s)						28				28
205.10.45 – USFWS Approval		100								100
205.10.50 – RWQCB 401 Permit		200				8				208
205.10.60 – Updated ECR	6									6
205.10.95 – Other Permits		100								100
205.20.05 – Draft Freeway Agreement										-
205.20.10 – Draft Freeway Agreement Review										-
205.20.15 – Final Freeway Agreement										-
205.20.20 – Executed Freeway Agreement										-
205.25 – Agreement for Material Sites										-
205.40.99 – Other Route Adoption Products										-
205.45 – MOU from TERO										-
205.55 – NEPA Delegation			9							9
Total Agreements & Route Adoptions	6	800	9	-	-	36	-	-	-	851
Right of Way Interests for Project Right of Way Certification										
225.55.20 – Right of Way Clearance										-
Total RW Interests for Project RW Certification	-	-	-	-	-	-	-	-	-	-
Draft PS&E										
230.05.45 – Noise Barrier Plans										-
230.05.65 – Water Pollution Control Plans						2				2
230.10.05 – Highway Planting Plans										-
230.10.15 – Plant List										-
230.30 – Draft Drainage Plans						2				2
230.35.10 – Highway Planting Specifications										-
230.35.35 – Water Pollution Control Specs						4				4
230.35.40 – Erosion Control Specifications						2				2
230.35.99 – Other Draft Specification Products										-
230.40.10 - Calc Hwy Planting Quantities & Est.										-
230.40.40 - Calc Erosion Ctrl Quantities & Est.						6				6
230.60.05 – Updated Storm Water Data Report						8				8
230.60.10 – Other PS&E Reviews & Update PR	6		4			2				12
230.99 – Other Draft PS&E Products										-
Total Draft PS&E	6	-	4	-	-	26	-	-	-	36
Environmental Impact Mitigation and Hazardous Waste Clean-up - Task Management Activities										
235.05.05 – Historical Structures Mitigation			35							35
235.05.10 – Archaeological & Cultural Mitigation										-
235.05.15 – Biological Mitigation		200								200
235.05.20 – Environmental Mitigation R/W Work		100								100
235.05.25 – Paleontology Mitigation										-
235.05.99 – Other Env. Mitigation Products										-
235.10.05 – Right or Permit for HW Site Inv.										-
235.10.10 – HW Sites Survey										-

EA: 03-1A920

Description: SUT 20 Widen Shoulders and Pavement Rehabilitation

WBS Task Activity Code	Senior/Coord	Biology	Cultural	Haz Waste	Socio-Economic	Storm Water	Noise/Air	Sup Svcs	Const. Liaison	Total
Assigned Unit										
235.10.15 – Detailed HW Site Investigation	183	183	183	349	183	349	349	183	183	-
235.15 – HW Management Plan										-
235.20 – HW PS&E										-
235.25 – HW Clean-up										-
235.30 – Certificate of Sufficiency										-
235.35 – Long Term Mitigation Monitoring										-
235.40 – Updated Environmental Commit. (ECR)	6									6
235.45 – NEPA Delegation			4							4
Total Env. Impact Mitigation & HW Clean-up	6	300	39	-	-	-	-	-	-	345
Post Right of Way Certification Work										
245.55.20 – Right of Way Clearance										-
Total Post RW Clearance Work	-	-	-	-	-	-	-	-	-	-
Final District PS&E Package										
255.05 – Circ. & Rev. Draft Dist PS&E	8					9				17
255.10.10 – Update Highway Planting PS&E										-
255.10.25 – Updated Technical Reports			7							7
255.15 – Environmental Reevaluation	9					1				10
255.20.05 – Rev. Plans for Drafting Stds. Comp										-
255.40 – Resident Engineer's Pending File	5									5
255.45 – NEPA Delegation	5									5
Total Final District PS&E Package	27	-	7	-	-	10	-	-	-	44
Contract Bid Documents "Ready to List"										
260.15.05 – Verify PS&E is Complete						8				-
260.75 – Env Cert at RTL			3							3
Total Contract Bid Documents "RTL"	-	-	3	-	-	8	-	-	-	11
Construction Engineering and General Contract Administration										
270.15.50 – Miscellaneous Stakes										-
270.20.05 – Resident Engineer File Review										-
270.20.10 – Proj. Plans, Spec. Prov. & Est. Rev.						2				2
270.20.45 – Cont. WPCP Review						2				2
270.20.50 – Technical Support		100				36			50	186
270.25.15 – Pre-Construction Meeting										-
270.30.10 – Inspection of Const. Work for Comp.						40				40
270.55 – Final Inspection & Acceptance Recom.										-
270.70 – Updated ECR										-
270.75 – Resource Agency Permit Ren. & Ext.										-
270.80 – Long Term Env Mit/Mont during Const										-
Total Const Engineering & Gen. Contract Admin.	-	100	-	-	-	80	-	-	50	230
Construction Contract Change Orders										
285.05.05 – Need for CCO Determination									8	8
285.10.15 – "Other" Functional Support						2				2
Total Construction CCOs	-	-	-	-	-	2	-	-	8	10
Construction Contract Claims										
290.35 – Technical Support						2			8	10
Total Construction Contract Claims	-	-	-	-	-	2	-	-	8	10
Contract Acceptance, Final Construction Estimate and Final Report										
295.35 – Certificate of Environmental Compliance	6								8	14
295.40 – Long Term Env Mit/Mont after CCA										-
Total Final Construction	6	-	-	-	-	-	-	-	8	14
Total Project Hours	531	2,795	294	120	-	364	32	108	74	4,318

ATTACHMENT F
INITIAL SITE ASSESSMENT

State of California
Memorandum

Business, Transportation and Housing Agency

To: Tammy Massengale, Chief
NR Office of Environmental Support

Date: February 28, 2011

File: 03-Sut-20
PM 5.4/11.1
Highway
Rehabilitation

EA: 03-1A920K
EFIS: 0300020608

From: Jason Lee
Office of Environmental Engineering Office – South (OEES)



Subject: Initial Site Assessment (ISA)

Per your request, the OEES performed an ISA for the above referenced project. The scope of work will rehabilitate pavement and widen shoulders on State Route 20 in Sutter County. Temporary Construction Easement(s) will be required. Ground disturbance and vegetation removal will be occurred. Wadsworth Canal (Br. No. 18-0003 at PM 9.76) will be widened to accommodate standard shoulders. Excess soil will be generated.

Based on the nature of the project and the fact that no work will be performed outside the existing r/w, the potential for hazardous waste exists with respect to the following:

1. Aerially Deposited Lead (ADL) exists within our r/w due to historical use of leaded gasoline. If the project proposes to generate excess soil, the project is required to conduct a preliminary site investigation (PSI).
2. If yellow thermoplastic and/or paint striping is to be removed for this project and it is removed as an independent, then SSP 15-305 removal of yellow thermoplastic or paint striping is required. If it is removed with the entire road section then no SSP is required.
3. Treated Wood Waste (TWW) can occur as posts along metal beam guard railing (MBGR). These wood products are typically treated with preserving chemicals that may be hazardous and include but not limited to arsenic, chromium, copper, creosote, and pentachlorophenol. The Department of Toxics Substances Control (DTSC) requires that TWW either be disposed as a hazardous waste, or if not tested, the generator may presume that TWW is a hazardous waste. Use SSP 14-010. TWW shall be disposed in an approved TWW facility.
4. Asbestos Containing Material (ACM) might be present in the shims in the existing bridge railing. The Barrier Railing drawing (C-2787-14) shows that shims were used for railing. Without testing, Asbestos assumed to be present in the bridge. As such, a preliminary site investigation (PSI) of the bridge will be required.

Please include 120 hours under WBS 165.10 and \$16,500 in the project budget to cover our time and the consultants cost to complete the PSI, if needed, during PA&ED. Once requested, it will take from 3 to 6 months to complete the PSI and final report. Excess material shall not be transported out of the project limits without a PSI being completed for ADL.

Page 2
February 25, 1432

Thank you for your effort and time. If there are any significant changes to the proposed project, please contact OEES as soon as possible so the impact of the changes and further action, if any, can be assessed. If you have any questions, please call me at (530) 741-4494.

cc: File
Molly Richard – Project Engineer

ATTACHMENT G
RIGHT OF WAY DATA SHEET

Memorandum

*Flex your power!
Be energy efficient!*

To: Isam Tabshouri
Chief, Advance Planning
Department of Transportation, District 3

Attention Molly Richard
Project Engineer

Date: March 16, 2011
E.A. 1A920K
PN: 0300020608
File: 03-SUT-20 PM 5.4/11.1

Rehabilitate pavement and widen
shoulders

From: JANEL WILSON, 
Senior Right of Way Agent
Marysville

Subject: Current Estimated Right of Way Costs

We have completed an estimate of the right of way costs for the above referenced project based on information received from you on February 17, 2011 .

Right of Way requests a minimum of 14 months lead time in order to complete the certification process in a timely manner.

Attachments:
Right of Way Data Sheet

cc. Ali Kiani

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY DATA SHEET



Date: March 16, 2011
E.A.: 1A920K
PN: 0300020608
File: 03-SUT-20 PM 5.4/11.1

1. Right of Way Cost Estimate:

	<u>Current Value Future Use</u>	<u>Escalation Rate</u>	<u>Escalated Value</u>
A. Total Acquisition Cost	\$21,875	5%	\$25,483
B. Mitigation acquisition & credits	\$0		\$0
C. Project Development Permit Fees	\$29,500	5%	\$34,365
Subtotal	<u>\$51,375</u>		<u>\$59,848</u>
D. Utility Relocation (State Share) (Owner's share: <u> \$45,000 </u>)	\$0		\$0
E. Relocation Assistance (RAP)	\$0		\$0
F. Clearance/Demolition	\$0		\$0
G. Title & Escrow	\$0		\$0
H. Total Estimated Right of Way Cost	<u>\$51,375</u>	Rounded	<u>\$59,800</u>
I. Construction Contract Work	<u>\$0</u>		

2. Current Date of Right of Way Certification May 1, 2014

3. Parcel Data:

<u>Type</u>	<u>Dual/Apppr</u>	<u>Utilities</u>	<u>RR Involvements</u>
X <u>0</u>		U4 - 1 <u>1</u>	None <u>X</u>
A <u>0</u>		- 2 <u>0</u>	C&M Agrmt <u> </u>
B <u>7</u>		- 3 <u>0</u>	Svc Contract <u> </u>
C <u>0</u>	<u>0</u>	- 4 <u>0</u>	Easements <u> </u>
D <u>0</u>	<u>0</u>	U5 - 7 <u>0</u>	Rights of Entry <u> </u>
		- 8 <u>0</u>	Clauses <u> </u>
Total <u>7</u>		- 9 <u>1</u>	
Areas:			<u>Misc. R/W Work</u>
R/W:	<u>1.82 Ac.</u>		RAP Displ <u>N/A</u>
Excess:	<u>N/A</u>	No. Excess Pcls: <u>0</u>	Clear/Demo <u>N/A</u>
Mitigation:	<u>N/A</u>		Const Permits <u>N/A</u>
			Condemnation <u>1</u>
			USA Involvement <u>No</u>

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY DATA SHEET

4. Are there any major items of construction contract work?

Yes _____ No X

None have been identified.

5. Provide a general description of the right of way and excess lands required (zoning, use, major improvements, critical or sensitive parcels, etc.)

Temporary construction easements are required for culvert rehabilitation. Properties are zoned agricultural, vacant land and farms. This estimate was for one construction season.

6. Are any properties acquired for this project expected to be rented, leased, or sold?

Yes _____ No X

7. Is there an effect on assessed valuation?

No X

Yes _____ Not Significant _____

8. Are utility facilities or rights of way affected?

Yes X No _____

According to the P.E there are three electric (wood) poles to be relocated. No money needed for potholing.

9. Are railroad facilities or rights of way affected?

Yes _____ No X

10. Were any previously unidentified sites with hazardous waste and/or material found?

Yes _____ None Evident X

11. Are RAP displacements required?

Yes _____ No X

No. of single family

No. of business/nonprofit

No. of multi-family

No. of farms

Based on Draft/Final Relocation Impact Statement/Study dated N/A
it is anticipated that sufficient replacement housing (will/will not) be available without
Last Resort Housing.

12. Are there material borrow and/or disposal sites required?

Yes _____ No X

13. Are there potential relinquishments and/or abandonments?

Yes _____ No X

14. Are there any existing and/or potential airspace sites?

Yes _____ No X

15. Indicate the anticipated Right of Way schedule and lead time requirements.

Right of Way requests a minimum of 14 months lead time in order to complete the certification process in a timely manner.

16. Is it anticipated that Caltrans will perform all Right of Way work?

Yes X No _____

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY DATA SHEET

17. Assumptions and Limiting Conditions:

17.a This estimate assumes that utility relocations will remain within the current right of way.

17.b The cost estimate maps are insufficient to identify all right of way needs and costs.

Evaluation Prepared By:

Right of Way:


Kelly J Kilpatrick

Date

3/16/11

Reviewed By:

RW Planning & Management:


Rich Covey

Date

3/17/11

I have personally reviewed this Right of Way Data Sheet and all supporting information. I certify that the probable Highest and Best Use, estimated values, escalation rates, and assumptions are reasonable and proper, subject to the limiting conditions set forth, and I find this Data Sheet to be complete and current.



JANEL WILSON,
Senior Right of Way Agent
Marysville

3-16-11
Date

ATTACHMENT H
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	\$ 22,560,000
TOTAL STRUCTURE ITEMS	\$ 550,000
SUBTOTAL CONSTRUCTION COSTS	\$ 23,110,000
TOTAL RIGHT OF WAY ITEMS	\$ 60,000
TOTAL PROJECT CAPITAL OUTLAY COSTS	\$ 23,170,000

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	25,000	TON	\$ 75	\$ 1,875,000
Hot Mix Asphalt (Type A)	50,000	TON	\$ 70	\$ 3,500,000
Rubberized Hot Mix Asphalt (Type G)	15,000	TON	\$ 70	\$ 1,050,000
Rubberized Hot Mix Asphalt (Type O)	7,000	TON	\$ 70	\$ 490,000
Aggregate Base	28,000	CY	\$ 30	\$ 840,000
HMA Dike Type E	2,000	LF	\$ 3	\$ 6,000
Overside Drain	1	LS	\$ 5,000	\$ 5,000

Subtotal Pavement Structural Sections **\$ 8,716,000**

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 \$ 12,125,500

Section 6: Minor

Section Cost

$$\boxed{\$ 12,125,500} \times \boxed{0.20} = \boxed{\$ 2,426,000}$$

(Subtotal Sections 1-5)

Total Minor Items $\boxed{\$ 2,426,000}$

Section 7: Roadway Mobilization

$$\boxed{\$ 14,551,500} \times \boxed{0.10} = \boxed{\$ 1,456,000}$$

(Subtotal Sections 1-6)

Total Roadway Mobilization $\boxed{\$ 1,456,000}$

Section 8: Roadway Additions

Supplemental Work

$$\boxed{\$ 14,551,500} \times \boxed{0.10} \times X = \boxed{\$ 1,456,000}$$

(Subtotal Sections 1-6)

Contingencies

$$\boxed{\$ 14,551,500} \times \boxed{0.35} \times X = \boxed{\$ 5,094,000}$$

(Subtotal Sections 1-6)

Total Roadway Additions $\boxed{\$ 6,550,000}$

TOTAL ROADWAY ITEMS $\boxed{\$ 22,558,000}$
(Subtotal Sections 1-8)

Estimate Prepared By: Molly Richard
(Print Name)

Date: 3/15/2011
Phone: (530) 741-5746

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	\$ 22,560,000	\$ 23,350,000	\$ 24,168,000	\$ 25,020,000
Structures	\$ 550,000	\$ 570,000	\$ 590,000	\$ 620,000
Right of Way				\$ 60,000
Total Capital Costs in 13/14 FY				\$ 25,700,000

*Escalation rate is 3.5%.

PRELIMINARY COST ESTIMATE SUMMARY

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

ALTERNATIVE 2

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 20-year design strategy.

SUMMARY OF PROJECT COST ESTIMATE

TOTAL ROADWAY ITEMS	\$ 12,640,000
TOTAL STRUCTURE ITEMS	\$ 550,000
SUBTOTAL CONSTRUCTION COSTS	\$ 13,190,000
TOTAL RIGHT OF WAY ITEMS	\$ 60,000
TOTAL PROJECT CAPITAL OUTLAY COSTS	\$ 13,250,000

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	31,000	CY	\$ 15	\$ 465,000
Imported Borrow			\$ -	\$ -
Clearing & Grubbing	1	LS	\$ 20,000	\$ 20,000
Develop Water Supply	1	LS	\$ 10,000	\$ 10,000

Subtotal Earthwork **\$ 495,000**

Section 2: Pavement Structural Section

Coldplane AC Pavement (0.1' max)	95,000	SQ YD	\$ 3	\$ 285,000
Hot Mix Asphalt (Type A)	11,000	TON	\$ 70	\$ 770,000
Rubberized Hot Mix Asphalt (Type G)	20,000	TON	\$ 70	\$ 1,400,000
Rubberized Hot Mix Asphalt (Type O)	7,000	TON	\$ 70	\$ 490,000
Aggregate Base	27,000	CY	\$ 30	\$ 810,000
HMA Dike Type E	2,000	LF	\$ 3	\$ 6,000
Overside Drain	1	LS	\$ 5,000	\$ 5,000

Subtotal Pavement Structural Sections **\$ 3,766,000**

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
 Concrete Barrier
 Metal Beam Guard Railing
 Facilities - Temp Fence & Gate
 Fence (Remove and Replace)
 Landscape
 Construction Site BMPs
 Lead Compliance Plan
 Environmental Mitigation
 Resident Engineer Office Space

1	LS	\$ 10,000	\$ 10,000
		\$ -	\$ -
500	LF	\$ 30	\$ 15,000
1,000	LF	\$ 6	\$ 6,000
		\$ -	\$ -
1	LS	\$ 300,000	\$ 300,000
1	LS	\$ 300,000	\$ 300,000
		\$ -	\$ -
1	LS	\$ 20,000	\$ 20,000
1	LS	\$ 25,000	\$ 25,000

Subtotal Specialty Items **\$ 676,000**

Section 5: Traffic Items

Traffic Delineation Items
 Temporary Traffic Delineation
 Traffic Electrical
 Roadside Signs (Const Area)
 Overhead Sign
 COZEEP
 Traffic Control
 Temporary Railing, Type K

1	LS	\$ 70,000	\$ 70,000
1	LS	\$ 40,000	\$ 40,000
1	LS	\$ 20,000	\$ 20,000
1	LS	\$ 10,000	\$ 10,000
		\$ -	\$ -
15	Nights	\$ 2,000	\$ 30,000
150	Days	\$ 2,500	\$ 375,000
15,000	LF	\$ 15	\$ 225,000

Subtotal Traffic Items **\$ 770,000**

SUBTOTAL SECTIONS 1 THROUGH 5	\$ 6,793,000
--------------------------------------	---------------------

Section 6: Minor

Section Cost

$$\boxed{\$ 6,793,000} \times \boxed{0.20} = \boxed{\$ 1,359,000}$$

(Subtotal Sections 1-5)

Total Minor Items $\boxed{\$ 1,359,000}$

Section 7: Roadway Mobilization

$$\boxed{\$ 8,152,000} \times \boxed{0.10} = \boxed{\$ 816,000}$$

(Subtotal Sections 1-6)

Total Roadway Mobilization $\boxed{\$ 816,000}$

Section 8: Roadway Additions

Supplemental Work

$$\boxed{\$ 8,152,000} \times \boxed{0.10} \times X = \boxed{\$ 816,000}$$

(Subtotal Sections 1-6)

Contingencies

$$\boxed{\$ 8,152,000} \times \boxed{0.35} \times X = \boxed{\$ 2,854,000}$$

(Subtotal Sections 1-6)

Total Roadway Additions $\boxed{\$ 3,670,000}$

TOTAL ROADWAY ITEMS $\boxed{\$ 12,638,000}$
(Subtotal Sections 1-8)

Estimate Prepared By: Molly Richard
(Print Name)

Date: 3/15/2011
Phone: (530) 741-5746

Estimate Checked By: _____
(Print Name)

Date: _____
Phone: _____

II. Structures Items

Section Cost

Widen Wadsworth Canal Bridge
Bridge Number 18-3

\$ 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>
Not Applicable			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	

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
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 2: Escalated Values

	10/11	11/12	12/13	13/14
Roadway	\$ 12,640,000	\$ 13,090,000	\$ 13,550,000	\$ 14,030,000
Structures	\$ 550,000	\$ 570,000	\$ 590,000	\$ 620,000
Right of Way				\$ 60,000
Total Capital Costs in 13/14 FY				\$ 14,710,000

*Escalation rate is 3.5%.

ATTACHMENT I
PROGRAMMING SHEET

PROGRAMMING SHEET - 2010/2011

EA: 03-1a920
 Proj Name: No Nick

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

Date: 04/06/2011
 Type: SHOPP

PROJECT SCHEDULE

MILESTONE		DATE (STATUS)
Begin Environmental Document	M020	04/01/2011 (T)
Begin Project Report	M040	04/01/2011 (T)
Circulate Environmental Document (DED)	M120	08/01/2012 (T)
Project Approval & Environmental Document (PA&ED)	M200	12/01/2012 (T)
District Submits Bridge Site Data to Structures	M221	
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	
District Plans, Specifications & Estimates (PS&E)	M380	03/01/2014 (T)
Right of Way Certification	M410	05/01/2014 (T)
Ready to List (RTL)	M460	06/01/2014 (T)
Headquarters Advertise (HQ AD)	M480	08/15/2014 (T)
Approve Construction Contract	M500	11/15/2014 (T)
Contract Acceptance (CCA)	M600	11/15/2016 (T)
End Project	M800	11/15/2018 (T)

ESTIMATE	DATE	AMOUNT
ROADWAY	03/18/11	\$ 22560
BRIDGE	03/18/11	\$ 548
Subtotal Const		\$ 23108
RIGHT OF WAY	03/17/11	\$ 60
MITIGATION		\$ 0
Subtotal RW		\$ 60
GRAND TOTAL		\$ 23168

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+	10/11+	11/12 (3.5%)	12/13 (3.5%)	13/14 (3.5%)	14/15 (3.5%)	Future++ (3.5%)	Total	
Right of Way					60			\$ 60	
Construction					25620			\$ 25,620	
CAPITAL COSTS TOTAL								\$ 25,680	
SUPPORT COSTS (Escalation Factor)			(1.5%)	(1.5%)	(1.5%)	(1.5%)	(1.5%)		Sup/Cap
PAED		120	490	211				\$ 821	3.20%
PS&E				818	518	126	117	\$ 1,579	6.15%
Right of Way				62	123	27	88	\$ 299	1.17%
Construction						313	831	\$ 1,144	4.45%
SUPPORT COSTS TOTAL								\$ 3,843	14.97%
TOTAL PROJECT COSTS								\$ 29,524	

PROJECT SUPPORT IN PYS

	Prior Yrs	10/11	11/12	12/13	13/14	14/15	Future	Total	PY %
Environmental	0.00	0.36	1.45	1.56	0.41	0.21	0.62	4.61	16.51%
Design	0.00	0.13	0.54	1.42	0.74	0.09	0.20	3.12	11.17%
Engineering Services	0.00	0.12	0.50	1.42	0.66	0.14	0.26	3.10	11.10%
Surveys	0.00	0.04	0.15	0.99	0.15	0.13	0.35	1.81	6.48%
Right of Way	0.00	0.03	0.13	0.41	0.81	0.12	0.40	1.90	6.81%
Traffic	0.00	0.07	0.29	0.59	0.25	0.33	0.54	2.07	7.41%
Construction	0.00	0.05	0.19	0.32	0.18	0.69	1.43	2.86	10.24%
Project Management	0.00	0.03	0.14	0.30	0.33	0.05	0.03	0.88	3.15%
District Units*	0.00	0.21	0.84	1.03	0.19	0.15	0.34	2.76	9.89%
Subtotal Dist/Region Resources	0.00	1.04	4.23	8.04	3.72	1.91	4.17	23.11	82.77%
59-DES Project Development	0.00	0.00	0.02	0.14	0.15	0.46	1.18	1.95	6.98%
59-DES Structures Foundation	0.00	0.01	0.03	0.09	0.14	0.19	0.67	1.13	4.05%
59-Office Engineer	0.00	0.00	0.00	0.00	0.24	0.11	0.00	0.35	1.25%
59-DES Project Management	0.00	0.00	0.01	0.03	0.03	0.01	0.02	0.10	0.36%
59-DES Construction	0.00	0.00	0.01	0.03	0.07	0.34	0.83	1.28	4.58%
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	0.01	0.07	0.29	0.63	1.11	2.70	4.81	17.23%
TOTAL PYS	0.00	1.05	4.30	8.33	4.35	3.02	6.87	27.92	

*Admin, Plng, Maintenance

**DES Admin, DES Plng, DES Maintenance

HRS/PYS = 1758

Comments: