

Memorandum

*Flex your power!
Be energy efficient!*

To: RAMSES SARGISS
Chief,
Office of Maintenance & TollBridge Engineering.

Att: FUK NYAN KURNIAWAN
115, HM3, & SHOPP 119 Bridge Program Advisor

From: JAMES HSIAO 
Project Management North

Subject: Project Initiation Document (PID) Refresher

Date: September 15, 2011
File: 04-SOL-780-PM 7.07
201.322
Project ID# 0412000160K
(EA 04-4A040K)
Structure Rehabilitation

Background

The Project Scope Summary Report (PSSR) for the above-referenced project was approved on July 28, 2008 to program in the 2008 State Highway Operation and Protection Program (SHOPP) but not programmed. This project is now “refreshed” for cost for programming in the 2012 SHOPP.

Project Scope

This project proposes to replace bridge the existing bridge on Route 780 in Solano County at PM 7.07.

Preliminary Project Cost Estimate

- Current project cost estimate is \$5.0M
- RTL is ~~January 2015~~ *May 2016* 
- Mid-year construction cost in 2016 is \$5.9M.
- District 04 recommended escalation rate of 4% was used for all escalation computations, with 25% contingency.

Attachments:

- (1) Updated Project Schedule
- (2) Updated Preliminary Project Cost Estimate
- (3) Updated Support Cost Estimate
- (4) Updated APS report
- (5) Updated Right of Way Data Sheet
- (6) Updated Storm Water Data Report
- (7) Updated PEAR

Project Schedule

Begin Environmental	07/12
PAED	05/14
Begin Right of Way	09/14
Project PS&E	01/16
Right of Way Certification	05/16
Ready to List	05/16
Approve Contract	09/16
Contract Acceptance	10/17
End Project	10/18

PRELIMINARY PROJECT COST ESTIMATE SUMMARY

District-County-Route	04-SOL 780
PM	<u>7.1</u>
EA	<u>04-4A040K</u>
Project ID	<u>412000160</u>
Program Code	SHOPP 201.322

PROJECT DESCRIPTION:

Replace Laurel Street Bridge

Proposed Improvement (Scope) Replace the existing bridge on Route SOL 780 at PM 7.07 in Napa County

Alternate Alternate 2

SUMMARY OF PROJECT COST ESTIMATE

TOTAL ROADWAY ITEMS	\$ <u>1,992,753</u>
TOTAL STRUCTURE ITEMS	<u>2,663,000</u>
SUBTOTAL CONSTRUCTION COSTS	\$ <u>4,655,753</u>
TOTAL RIGHT OF WAY ITEMS	<u>\$ 350,000</u>
TOTAL PROJECT CAPITAL OUTLAY COSTS	\$ <u>5,005,753</u>

Treated Permeable Base	_____	_____	\$ _____	\$ _____
Aggregate Sub base	_____	_____	\$ _____	\$ _____
Pavement Reinforcing Fabric	_____	_____	\$ _____	\$ _____
Minor Concrete (Minor Construction)	_____	_____	\$ _____	\$ _____
Edge Drains	_____	_____	\$ _____	\$ _____

Subtotal Pavement Structural Section \$ 18,000

Section 3 Drainage

	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Large Drainage Facilities	_____	_____	\$ _____	\$ _____	
Storm Drains	_____	_____	\$ _____	\$ _____	
Pumping Plants	_____	_____	\$ _____	\$ _____	
Project Drainage (X-Drains, overside, etc.)	_____	_____	\$ _____	\$ 0	

Subtotal Drainage \$ 0

District-County-Route	<u>04-SOL 780</u>
PM	<u>7.1</u>
EA	<u>04-4A040K</u>
Project ID	<u>412000160</u>
Program Code	<u>SHOPP 201.322</u>

Section 4: Specialty Items

	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Retaining Walls	_____	_____	\$ _____	\$ _____	
Noise Barriers	_____	_____	\$ _____	\$ _____	
Barriers and Guardrails	_____	_____	\$ _____	\$ _____	
Equipment/Animal Passes	_____	_____	\$ _____	\$ _____	
Hazardous Waste Investigation and/or Mitigation Work	_____	_____	\$ _____	\$ _____	
Temporary K-Rail	_____	_____	\$ _____	\$ _____	
Temporary Crash Cushion	_____	_____	\$ _____	\$ _____	
Storm Water Compliance	1	LS	\$ 170,200	\$ _____	170,200
Hazardous Waste Compliance	1	LS	\$ 3,300	\$ _____	3,300
Approach Guard Rails	1	LS	\$ 48,400	\$ _____	48,400
Environmental compliance	1	LS	\$ 349,250	\$ _____	349,250

Subtotal Specialty Items \$ 571,150

Section 5: Traffic Items

	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Traffic Management Practice (TMP)	<u>1</u>	<u>LS</u>	\$ <u> </u>	\$ <u>336000</u>	
Traffic Delineation (
Approach Guard rail)	<u>1</u>	<u>LS</u>	\$ <u> </u>	\$ <u>48400</u>	
Traffic Signals (Modification)	<u> </u>	<u> </u>	\$ <u> </u>	\$ <u> </u>	
Overhead Sign Structures	<u> </u>	<u> </u>	\$ <u> </u>	\$ <u> </u>	
Roadside Management	<u>1</u>	<u>LS</u>	\$ <u>187220</u>	\$ <u>187220</u>	
Temporary Detection System					
Staging			\$ <u> </u>	\$ <u> </u>	
Thermoplastic Traffic Stripe	<u>800</u>	<u>LF</u>	\$ <u>10</u>	\$ <u>8000</u>	
Remove Channelizer	<u> </u>	<u> </u>	\$ <u> </u>	\$ <u> </u>	
Remove Traffic Stripe	<u> </u>	<u> </u>	\$ <u> </u>	\$ <u> </u>	
Remove Pavement Marker	<u> </u>	<u> </u>	\$ <u> </u>	\$ <u> </u>	
			Subtotal Traffic Items	\$ <u>579,620</u>	

District-County-Route 04-SOL 780
 PM 7.1
 EA 04-4A040K
 Project ID 412000160
 Program Code SHOPP 201.322

Section 6 Planting and Irrigation

	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Highway Planting	<u> </u>	<u> </u>	\$ <u> </u>	\$ <u> </u>	
Replacement Planting	<u> </u>	<u> </u>	\$ <u> </u>	\$ <u> </u>	
Irrigation Modification	<u> </u>	<u> </u>	\$ <u> </u>	\$ <u> </u>	

Relocate Existing Irrigation Facilities	_____	_____	_____	_____
Irrigation Crossovers	_____	_____	\$ _____	\$ _____
	_____	_____	\$ _____	\$ _____

Subtotal Planting and Irrigation Section \$ 0

Section 7: Roadside Management and Safety Section

	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Vegetation Control Treatments	_____	_____	\$ _____	\$ _____	
Gore Area Pavement	_____	_____	\$ _____	\$ _____	
Pavement beyond the gore area	_____	_____	\$ _____	\$ _____	
Miscellaneous Paving	_____	_____	\$ _____	\$ _____	
Erosion Control	_____	_____	\$ _____	\$ _____	
Slope Protection	_____	_____	\$ _____	\$ _____	
Side Slopes/Embankment Slopes	_____	_____	\$ _____	\$ _____	
Maintenance Vehicle Pull outs	_____	_____	\$ _____	\$ _____	
Off-freeway Access (gates, stairways, etc.)	_____	_____	\$ _____	\$ _____	
Roadside Facilities (Vista Points, Transit, Park and Ride, etc.)	_____	_____	\$ _____	\$ _____	
Relocating roadside facilities/features	_____	_____	\$ _____	\$ _____	

Subtotal Roadside Management and Safety Section \$ 0

TOTAL SECTIONS: 1 thru 7 \$ 1,168,770

District-County-Route	<u>04-SOL 780</u>
PM	<u>7.1</u>
EA	<u>04-4A040K</u>
Project ID	<u>412000160</u>
Program Code	<u>SHOPP 201.322</u>

Section 8: Minor Items

$$\text{\$ } \underline{1168770} \text{ X } \underline{10} \% = \text{\$ } \underline{116877}$$

(Subtotal Sections 1 thru 7)

TOTAL MINOR ITEMS \\$ 116877

Section 9: Roadway Mobilization

$$\text{\$ } \underline{1285647} \text{ X } \underline{10} \% = \text{\$ } \underline{128565}$$

(Subtotal Sections 1 thru 8)

TOTAL ROADWAY MOBILIZATION \\$ 128,565

Section 10 Roadway Additions

Supplemental Work

$$\text{\$ } \underline{1285647} \text{ X } \underline{10} \% = \text{\$ } \underline{128565}$$

(Subtotal Sections 1 thru 8)

Contingencies

$$\text{\$ } \underline{1285647} \text{ X } \underline{35} \% = \text{\$ } \underline{449976}$$

(Subtotal Sections 1 thru 8)

SUB-TOTAL ROADWAY ADDITIONS \\$ 578541

TOTAL ROADWAY ITEMS \\$ 1992753
 (Subtotal Sections 1 thru 10)

Total Construction \$ 1,992,753

Estimate Prepared By Anwer Keval
(Print Name)

Phone # (510) 286-6328 Date 40781

Estimate Checked By Warwick W.T. Cheung
(Print Name)

Phone # (510) 622-0155 Date 40781

Page No. 5 of 6

District-County-Route 04-SOL 780

PM 7.1

EA 04-4A040K

Project ID 412000160

Program Code SHOPP 201.322

II. STRUCTURES ITEMS

	Structure (1)	Structure (2)	Structure (3)
Bridge Name...Alt. 2			
Structure Type	<u>CIP/PS</u>	<u></u>	<u></u>
Width (out to out) - (ft)	<u>48'</u>	<u></u>	<u></u>
Span Lengths - (ft)	<u>195'</u>	<u></u>	<u></u>
Total Area - (ft2)	<u>9360</u>	<u></u>	<u></u>
Footing Type (pile/spread)	<u>Spread</u>	<u></u>	<u></u>
Cost Per ft2			
(incl. 10% mobilization and 25% contingency)	<u>\$ 310</u>	<u></u>	<u></u>
Total Cost for Structure	<u>\$ 2,663,000</u>	<u></u>	<u></u>

SUBTOTAL STRUCTURES ITEMS \$ 2,663,000
(Sum of Total Cost for Structures)

Railroad Related Costs:

<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>

SUPPORT COST ESTIMATE

	PROJECT SUPPORT COMPONENTS								
	PA&ED (5%)		Design(10%)		Right of Way		Construction		Total
	0 Phase		1 Phase		2 Phase (5%)		3 Phase(15%)		
Dist	DES	Dist	DES	Dist	DES	Dist	DES		
Estimated PYs	2.8	-	-	5.6	2.8	-	4.4	4.4	20
Estimated PS \$'s		-		\$1008000	\$504,000	-	\$792,000	\$792,000	\$3,600,000
Estimated PYE \$'s (\$1000's)	-	-	-	-	-	-	-	-	-
Total \$'s		-		\$1008000	\$504,000	-	\$792,000	\$792,000	\$3,600,000

Memorandum

Flex your power!

Be energy

efficient!

To: ANWER KEVAL
PROJECT ENGINEER
District 4

Date: September 13, 2011

File: 04-SOL-RTE 780-PM 7.07
EA 04-4A040K
BR.NO. 23-0119

From: GORDON DANKE
Bridge Design Branch 9
Office of Bridge Design West
Structure Design
Division of Engineering Services MS 9-4/8I

PK for GWD

Subject: UPDATED ADVANCED PLANNING STUDY

Attached are the updated cost estimates for the Laurel St. Overcrossing replacement.

The estimated construction costs, including 8% time-related overhead, 10% mobilization and 25% contingencies, for both alternatives, are as follow:

Structure Name	Br. No.	Estimated Cost
Laurel St. OC- ALT 1	23-0119	\$ 2,368,000.00
Laurel St. OC- ALT 2	23-0119	\$ 2,663,000.00

ALT 1 is a Cast in Place/Prestress Concrete Box Girder Bridge.

ALT 2 is Pre-cast/Prestress Concrete Box Girder Bridge.

PLEASE FORWARD A COPY OF GENERAL PLANS TO ANY INTERESTED FUNCTIONAL UNIT IN THE DISTRICT.

If you have any questions or if you need additional information regarding this memo, please contact Phil Lutz at 916-227-8514 or Isaias Yalan at 916-227-9851.

Attachments

- c: LAURA LUCE, Status & Tracking Branch
CRAIG WHITTEN, Specification Branch Chief MS 9-2/2H
JOHN STAYTON, Estimates Branch Chief MS 9-2/2H
OFELIA ALCANTARA, Bridge Design Office Chief MS 9-4/11G
JOHN BABCOCK, Structure Construction Assistant Deputy Division Chief MS 9-2/11H
STEVE JAQUES, Preliminary Investigations Branch Chief MS 9-1/1G

T0: Advance Planning

Date August 29 2011
Dist 4 Co Sol Rte 780-PM 7.07

Attention: Anwer Kaval
Project Engineer

From: ENID LAU
Right of Way Resource Manager

EA 4A040K
Laurel Street Overcrossing
D.S. #5980 (Updated)

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 maps we received from you on August 18, 2011 and the following assumptions and limiting conditions.

- 1. The mapping did not provide sufficient detail to determine the limits of the right of way required.
- 2. The transportation facilities have not been sufficiently designed so our estimator could determine the damages to any of the remainder parcels affected by the project.
- 3. Additional right of way requirements are anticipated, but are not defined due to the preliminary nature of the early design requirements.
- 4. This estimate does not include \$_____ right of way costs previously incurred on the project, which may affect the total project right of way costs for programming purposes.
- 5. We have determined there are no right of way functional involvements in the proposed project at this time, as designed.

Right of Way Lead Time will require a minimum of 6 months after we begin receiving final right of way requirements (PYSCAN node No. 224), necessary environmental clearance has been obtained, and freeway agreements have been approved. From the date of receipt of final right of way requirements (PYSCAN node No. 265), we will require a minimum of 4 months prior to the date of certification of the project. Shorter lead times will require either more right of way resources or an increased number of condemnation suits to be filed. Either of these actions may reflect adversely on the District's other programs or our public image generally.



Right of Way Resource Manager

Attachments:

- Right of Way Data Sheet – Page One (always required)
- Right of Way Data Sheet – All Pages (required when interest in real property is being acquired)
- Utility Information Sheet
- Railroad Information Sheet

Memorandum

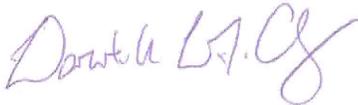
*Flex your power!
Be energy efficient!*

To: ALLISON G PAICH
Office Chief
Right of Way Planning and Management Coordination

Date: August 17, 2011

File: 04-SOL-780
PM 7.07
04-4A040K
Laurel Street Overcrossing
Project Scope Summary
Report "Refresher"

Attn: Sunnie Stanton

From: WARWICK W. T. CHEUNG 
Branch Chief
Office of Advance Planning – PSR I

Subject: Request for Update on Existing Right of Way Data Sheet

The Office of Advance Planning is preparing a Project Scope Summary Report (PSSR) "refresher" for Laurel Street Overcrossing (Bridge #23-0119) on I-780 in Solano County. The Right of Way Data Sheet for this project was prepared in October 22, 2007 by Right of Way Division of District 4. (Log # 5411)

This request to you is to update the October 2007 Data Sheet to incorporate updated Right of Way acquisition and associated Utility Relocation (State Share) costs. The Right of Way need is unchanged since the original PSSR. This project is scheduled for programming in 2012 SHOPP.

Per discussions between Mark Shindler, Allison Paich, Gary Pursell, and Patrick K Pang on August 17, 2011, it is requested that this update be completed by September 9, 2011.

Should you need any additional information, please contact Anwer Keval, Project Engineer, at (510) 286-6328 or me at (510) 622-0155.

cc: WCheung, AKeval, File

Attachments

RIGHT OF WAY DATA SHEET

TO: Office of Advance Planning
 PSR I

Date 8/25/2011 D.S. # 5980
 Dist. 04 Co. Sol Rte 780 PM 7.07
 EA 04-4A040K (0400020562)
 Project Description: Bridge Replacement

ATTN: WARWICK W.T. CHEUNG

SUBJECT: Right of Way Data - Alternate No. _____

1. Right of Way Cost Estimate:

	Current Value (Future Use)	Escalation Rate	Escalated Value
A. Acquisition, including Excess Lands, Damages, and Goodwill	<u>\$0.00</u>	%	<u>\$0.00</u>
Project Permit Fees			<u>\$0.00</u>
Grantor's Appraisal Cost			<u>\$0.00</u>
B. Utility Relocation (State Share)	<u>\$350,000.00</u>	%	<u>\$350,000.00</u>
C. Railroad (from page 6)			<u>\$0.00</u>
D. Relocation Assistance	<u>\$0.00</u>	%	<u>\$0.00</u>
E. Clearance Demolition	<u>\$0.00</u>	%	<u>\$0.00</u>
F. Title and Escrow Fees	<u>\$0.00</u>	%	<u>\$0.00</u>
G. <u>TOTAL ESCALATED VALUE</u>			<u>\$350,000.00</u>
H. Construction Contract Work	<u>\$0.00</u>		

2. Anticipated Date of Right of Way Certification _____

3. Parcel Data:

Type	Dual/Appr	Utilities	RR Involvements
X _____		U4-1 _____	None _____ X
A _____		-2 _____	C&M Agrmt _____
B _____		-3 <u>1</u>	Svc Cont. _____
C _____		-4 _____	Design _____
D _____		U5-7 <u>2</u>	Const. _____
E <u>XXXX</u>		-8 <u>1</u>	Lic/RE/Clauses _____
F <u>XXXX</u>		-9 _____	
<u>Misc R/W Work</u>			
RAP Displ			<u>0</u>
Clear Demo			<u>0</u>
Const. Permits			<u>0</u>
Condemnation			<u>0</u>

Total 0

Areas: Right of Way _____

No. Excess Parcels _____

Excess _____

Enter PMCS Screens 8/25/11

By Matthew

Enter AGRE Screen (Railroad Data Only) _____

By _____

4. Are there any major items of construction contract work?
Yes No (If yes, explain)
5. Provide a general description of the right of way and excess lands required(zoning, use, major improvements critical or sensitive parcels, etc.).
No right of way required.
6. Is there an effect on assessed valuation? (If yes explain)
Yes Not Significant No
7. Are utility facilities or rights of way affected? Yes No
If yes, attach Utility Information Sheet Exhibit 01-01-05)
8. Are railroad facilities or rights of way affected? Yes No
If yes, attach Railroad Information Sheet Exhibit 01-01-06)
9. Were any previously unidentified sites with hazardous waste and/or material found?
Yes None evident
(If yes, attach memorandum per Procedural Handbook Volume 1, Section 101.011)
10. Are RAP displacements required? Yes No
(If yes, provide the following information)
- No. of single family _____ No. of business/non profit _____
No. of multi-family _____ No. of farms _____
- Based on Draft / Final Relocation Impact Statement / Study dated _____, it is anticipated that sufficient replacement housing will / will not be available without Last Resort Housing.
11. Are material borrow and / or disposal sites required? Yes No
(If yes, explain)
12. Are there potential relinquishments / abandonments? Yes No
(If yes, explain)
13. Are there any existing and/or potential Airspace sites? Yes No
(If yes, explain)

14. Are there Environmental Mitigation costs? Yes No
(If yes, explain)

15. Indicate the anticipated Right of Way schedule and lead time requirements. (Discuss if District proposes less than PMCS lead time and / or if significant pressures for project advancement are anticipated.)

PYPSCAN lead time (from Regular R/W to project certification) 6 months.

16. Is it anticipated that all Right of Way work be performed by CALTRANS staff?
Yes No (If no, discuss)

Assumptions and Limiting Conditions

- This data sheet was completed without a hazardous waste/materials report.
- Information on this data sheet was based on maps provided by Warwick W.T. Cheung on 17-Aug-11

Evaluation Prepared By: Renata Frey

Right of Way: Name Renata Frey Date 8/25/11

Railroad: Name Paul G. ... Date 8/25/11

Utilities: Name [Signature] Date 8-25-11

Recommended for Approval:

[Signature]

Right of Way Capital Cost Coordinator

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

[Signature]

Chief, R/W Appraisal Services

8.29.11

Date

cc: Program Manager
Project Manger

UTILITY INFORMATION SHEET

1. Utility owners located within project limits:
AT&T, PG&E

2. Facilities potentially impacted by project (if known, include Owners(s) & facility type(s)):
AT&T fiber optic

3. Anticipated Workload:

X	Utility Verification required
X	Positive Identification
X	Utility Relocation
	Other (Specify)

4. Additional information concerning anticipated utility involvements (include limiting conditions and a narative addressing likelihood that conflicts will occur);

_____ Involves possible relocation of electric transmission facilities
 (If X'd, Data sheet should be forwarded to environmental)

5. PMCS input information

U4-1		Owner Expense Involvements
U4-2		State Expense Involvements (Conventional, No Fed Aid)
U4-3	1	State Expense Involvements (Freeway, No Fed Aid)
U4-4		State Expense Involvements (Conventional or Freeway, Fed Aid)
U5-7	2	Verifications - without involvements
U5-8	1	Verifications - 50% involvements
U5-9		Verifications resulting in involvements

NOTE: The sum od U-4's must equal the sum of 1/2 of the U5-8's and all of the U5-9's.

ESTIMATED STATE SHARE OF COSTS \$ 350,000.00

Perpared by: Nick Psiol



 Right of Way Utility Coordinator

8-25-11

 Date

Memorandum

*Flex your power!
Be energy efficient!*

To: LAURA HAMEISTER
Senior R/W Agent
Planning & Management Project Coordination

Date: August 15, 2007

File: 04-SOL-780
PM 7.07
04-219-4A040K

From: JACK KWEI 
Branch Chief
Office of Advance Planning – PSR I

Subject: Request for Right of Way Data Sheet

The Office of Advance Planning is preparing a Project Scope Summary Report (PSSR) for Laurel Street Overcrossing (Bridge No. 23-0119) on I-780 in Solano County.

The present vertical clearance of Laurel Street Overcrossing is 14 feet 10 inches. The new structure is to provide a clearance of 16 feet 6 inches. This work is proposed under Bridge Preservation Program Code 20.XX.201.322, Transportation Permit Requirements for Bridges. At this time it is proposed that all work will be within State right of way. No railroad work or right of way is involved. Utility relocation or adjustment may be anticipated.

Please provide the Right of Way Data Sheet for this project at PM 7.07.

Please provide the requested information by **October 15, 2007**. For further information, please contact Ying Zhou, Project Engineer, at (510) 286-7231.

cc: JKwei, YZhou, File

Attachments – Location Map

RIGHT OF WAY DATA SHEET

TO: Office of Advance Planning Date 10/22/07 D.S. # 5411
 Dist 04 Co Sol Rte 780 PM 7.07
 ATTN: Jack Kwei EA 4A040K
 Project Description: Bridge Replacement

SUBJECT: Right of Way Data – Alternate No. _____

1. Right of Way Cost Estimate:

	Current Value (Future Use)	Escalation Rate	Escalated Value
A. Acquisition, including Excess Lands, Damages, and Goodwill.	\$ <u>00.00</u>	%	\$ <u>00.00</u>
Project Permit Fees			\$ <u>00.00</u>
Grantor's Appraisal Cost			\$ <u>00.00</u>
B. Utility Relocation (State Share)	\$ <u>100,000.00</u>	%	\$ <u>100,000.00</u>
C. Relocation Assistance	\$ <u>00.00</u>	%	\$ <u>00.00</u>
D. Clearance/Demolition	\$ <u>00.00</u>	%	\$ <u>00.00</u>
E. Title and Escrow Fees	\$ <u>00.00</u>	%	\$ <u>00.00</u>
F. <u>TOTAL ESCALATED VALUE</u>			\$ <u>100,000.00</u>
G. Construction Contract Work	\$ <u>00.00</u>		

2. Anticipated Date of Right of Way Certification _____

3. Parcel Data:

Type	Dual/Appr	Utilities	RR Involvements	
X _____		U4-1 _____	None	X _____
A _____		-2 _____	C&M Agrmt	_____
B _____		-3 _____	Svc Contract	_____
C _____		-4 <u>1</u>	Design	_____
D _____		U5-7 <u>2</u>	Const.	_____
E <u>XXXX</u>		-8 <u>1</u>	Lic/RE/Clauses	_____
F <u>XXXX</u>		-9 _____	Misc R/W Work	
			RAP Displ	<u>0</u>
			Clear Demo	<u>0</u>
			Const. Permits	<u>0</u>
			Condemnation	<u>0</u>
Total	<u>0</u>			

Areas: Right of Way _____ No. Excess Parcels _____ Excess _____
 Enter PMCS Screens 10 / 1 / 20 / 07 by [Signature]
 Enter AGRE Screen (Railroad data only) _____ / _____ by _____

4. Are there any major items of construction contract work?
Yes No (If yes, explain)
5. Provide a general description of the right of way and excess lands required (zoning, use, major improvements, critical or sensitive parcels, etc.). No right of way required
6. Is there an effect on assessed valuation?
Yes Not Significant No (If yes, explain)
7. Are utility facilities or rights of way affected? Yes No
(If yes, attach Utility Information Sheet Exhibit 01-01-05)
8. Are railroad facilities or rights of way affected? Yes No
(If yes, attach Railroad Information Sheet Exhibit 01-01-06)
9. Were any previously unidentified sites with hazardous waste and/or material found?
Yes None evident (If yes, attach memorandum per Procedural Handbook Volume 1, Section 101.011)
10. Are RAP displacements required? Yes No
(If yes, provide the following information)
- | | | | |
|----------------------|-------|----------------------------|-------|
| No. of single family | _____ | No. of business/non profit | _____ |
| No. of multi-family | _____ | No. of farms | _____ |
- Based on Draft/Final Relocation Impact Statement/Study dated _____, it is anticipated that sufficient replacement housing (will/will not) be available without Last Resort Housing.
11. Are there material borrow and/or disposal sites required? Yes No
(If yes, explain)
12. Are there potential relinquishments and/or abandonments? Yes No
(If yes, explain)
13. Are there any existing and/or potential Airspace sites? Yes No
(If yes, explain)

14. Indicate the anticipated Right of Way schedule and lead time requirements. (Discuss if District proposes less than PMCS lead time and/or if significant pressures for project advancement are anticipated.)

PYPSCAN lead time (from Regular RW to project certification) 10 months

15. Is it anticipated that all Right of Way work be performed by CALTRANS staff?
Yes No (If no, discuss)

Assumptions and Limiting Conditions

- This data sheet was completed without a hazardous waste/materials report.
- Information on this data sheet was based on information provided by Jack Kwei.

Evaluation Prepared By: Lynn White

Right of Way:	Name	<u>Lynn White by R. Frey</u>	Date	<u>10/22/07</u>
Railroad:	Name	<u>Amtrak</u>	Date	<u>10-24-07</u>
Utilities:	Name	<u>Shamam</u>	Date	<u>10/22/07</u>

Recommended for Approval:

homali

Right of Way Capital Cost Coordinator

I have personally reviewed this Right of Way Data Sheet and all supporting information. It is my opinion 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 find this Data Sheet complete and current.

Mark Smith

Chief, RW Appraisal Services

10/29/07

Date

cc: Program Manager
Project Manager

UTILITY INFORMATION SHEET

1. Utility Owners located within project limits:

City of Vallejo H2O, AT&T, PG&E (Gas/Electric)

2. Facilities potentially impacted by project (if known, include Owner(s) and facility type(s)):

3. Anticipated Workload:

 X Utility Verification required
 X Positive Identification
 X Utility Relocation
 Other (Specify)

4. Additional information concerning anticipated utility involvements (include limiting conditions and a narrative addressing likelihood that conflicts will occur);

 Involves possible relocation of electric transmission facilities
(If X'd, Data sheet should be forwarded to environmental)

5. PMCS input information

U4-1	<u> </u>	Owner Expense Involvements	U5-7	<u> 2 </u>	Verifications-without involvements
U4-2	<u> </u>	State Expense Involvements (Conventional, No Fed Aid)	U5-8	<u> 1 </u>	Verifications-50% involvements
U4-3	<u> </u>	State Expense Involvements (Freeway, No Fed Aid)	U5-9	<u> </u>	Verifications resulting in involvements
U4-4	<u> 1 </u>	State Expense Involvements (Conventional or Freeway, No Fed Aid)			

NOTE: The sum of the U-4's must equal the sum of ½ of the U5-8's and all of the U5-9's.

ESTIMATED STATE SHARE OF COSTS \$100,000.00

Prepared by: Nick Psiol


Right of Way Utility
Coordinator

10/22/07
Date



PRELIMINARY ENVIRONMENTAL ANALYSIS REPORT

Project Information

District 04	County SOL	Route 780	PM 7.07 (Bridge No. 23-0119)	EA 4A040K
Project Title: Laurel Street Bridge Overcrossing Replacement				
Project Manager James Hsiao			Phone # 510.622.8810	
Project Engineer Anwer Keval			Phone # 510.286.7231	
Environmental Office Chief/Manager Melanie Brent			Phone # 510.286.5231	
PEAR Preparer Phillip Badal			Phone # 510.622.1746	

Project Description

Purpose and Need

The project proposes to increase the vertical clearance between the roadway and the overhead structure (bridge overcrossing) to current standards by replacing the structure with a new one.

Description of work

The new structure (Laurel Street Overcrossing) will increase the vertical clearance from 14.83 to 16.5 feet, thus bringing it in compliance. The new structure will be within the existing alignment and would include other standard bridge installations. Utilities on the existing structure are to be replaced and relocated.

Alternatives

The build alternative brings the bridges to current standards, while the no build alternative leaves the existing facility unchanged.

Anticipated Environmental Approval

CEQA		NEPA	
Environmental Determination			
Statutory Exemption	<input type="checkbox"/>		
Categorical Exemption	<input checked="" type="checkbox"/>	Categorical Exclusion	<input checked="" type="checkbox"/>
Environmental Document			
Initial Study or Focused Initial Study with proposed Negative Declaration (ND) or Mitigated ND	<input type="checkbox"/>	Routine Environmental Assessment with proposed Finding of No Significant Impact	<input type="checkbox"/>
		Complex Environmental Assessment with proposed Finding of No Significant Impact	<input type="checkbox"/>
Environmental Impact Report	<input type="checkbox"/>	Environmental Impact Statement	<input type="checkbox"/>
CEQA Lead Agency (if determined): The California Department of Transportation (Caltrans) is the lead CEQA Agency for the project. FHWA assigned, and Caltrans has assumed, all of the United States Department of Transportation (USDOT) Secretary's responsibilities under NEPA.			
Estimated length of time (months) to obtain environmental approval:			24
Estimated person hours to complete identified tasks: Completing environmental document.			672

PEAR Technical Summaries

Visual/Aesthetics:

Since this segment of freeway is classified by Caltrans as a Landscaped Freeway, landscape replacement will be required with a 3-year plant establishment period. A qualified Architect from Caltrans District 4 would be involved in determining if a visual impact assessment would be required, and in developing the aesthetics treatment for the overcrossing replacement. Any aesthetic treatments to the structure and the abutments shall be context sensitive to the surrounding environment. (See "Cultural Resources" discussion of visual effects).

Water Quality and Storm Water Runoff:

This project must comply with the Department Statewide National Pollutant Discharge Elimination System (NPDES) Permit (Order No.: 99-06-DWQ) and the Construction General Permit (Order No.: 2009-0009-DWQ), both issued by the State Water Resources Control Board (SWRCB). Under the auspices of the SWRCB, the San Francisco Bay Regional Water Quality Control Board (Region 2) has authority to enforce NPDES and Construction General Permit requirements. To comply with these permits, the Department shall consider and incorporate temporary and permanent Best Management Practices (BMPs) using Best Available Technology (BAT) to the Maximum Extent Practicable (MEP), in order to minimize, or prevent, any potential increased impact to existing water quality.

Per the Construction General Permit, development and implementation of a Storm Water Pollution Prevention Plan (SWPPP) is required; this shall be prepared per Department Standard Special Provision (SSP) 07-345. The SWPPP is developed by the Contractor, and approved by the Department, prior to commencement of construction. In addition to the general permits mentioned above, it should be anticipated that a 401 Certification, issued by Region 2, will be required. Necessity of the 401 Certification will be determined during the PA/ED phase.

Air Quality and Noise:

The vertical clearance of the overcrossing will be increased from 14.83 to 16.5 feet, an increase of 1.67 feet. A survey of the area adjacent to the overcrossing shows that the project will not remove any shielding, thereby, exposing the line-of-sight between the receptor and the traffic noise source. Most of the line-of-site of the nearby receptors is blocked by trees. The 1.67 feet of vertical alteration cannot be considered as substantial. Therefore, there is no noise or air quality issue for this project.

Cultural Resources:

Area is sensitive for buried resources. Records search required. APE needs to be established for both archaeology and architectural history. Also, ASR will be conducted in tandem with XPI to determine presence of buried archaeological deposits that may be eligible for listing historic properties. Native American consultation will also be required. We do not anticipate locating any previously unknown architectural resources.

Hazardous Waste/Materials:

The existing bridge would require testing for asbestos during the design phase. The proposed project involves a limited amount of excavation work in areas exposed to aerially deposited Lead (ADL), or other hazardous waste concerns. The contractor would be required to have a lead compliance plan for personnel that may have contact with surface soils with aerially deposited lead. The costs for the lead compliance plan may be estimated at \$3000. There will be no staging in the adjacent unpaved areas.

Biological Environment:

Caltrans Biologist, Dianne Joy R. Hughey performed a review of threatened and endangered species using the USFWS Endangered Species List website (http://www.fws.gov/sacramento/es/spp_list.htm) and the California Natural Diversity Database (CNDDDB, California Department of Fish and Game) on September 12, 2011. This project occurs within the Benicia U.S. Geological Survey (USGS) quadrangle. Included quadrangles for this study are: Cuttings Wharf, Cordelia, Fairfield South, Mare Island, Vine Hill, Richmond, Briones Valley, and Walnut. Dianne Joy assessed this location for potential biological constraints to the completion of this project using photographs and aerial images. Site visits will need to be conducted for further assessment.

Habitat

The project site is in Solano County. Approximately 75% of the project site consists of or is adjacent to the shoulder or median. Vegetation consists of disturbed non-native grasses, ruderal vegetation and trees. A site visit will need to be done in order to verify types of trees.

Flora/Fauna

The site was surveyed for federal and state listed plant and animal species using aerial images conducted on September 12, 2011 (attached CNDDDB and USFWS species list). Subsequent site visits will need to be conducted in order to finalize assessment for listed plants or animal species. Flora and fauna is limited within the project limits. Flora is limited to the shoulders and adjacent land.

Federal and state listed flora within the applicable nine USGS quadrangles are: Pallid manzanita (*Arctostaphylos pallid*), soft bird's-beak (*Cordylanthus mollis ssp. Mollis*), Suisun thistle (*Cirsium hydrophilum var. hydrophilum*), Contra Costa goldfields (*Lasthenia conjugens*), Santa Cruz tarplant (*Holocarpha macradenia*), California seablite (*Suaeda californica*), showy Rancheria clover (*Trifolium amoenum*), Tiburon paintbrush (*Castilleja affinis ssp. Neglecta*).

Listed fauna include: California tiger salamander (*Ambystoma californiense*), California red-legged frog (*Rana draytonii*), vernal pool fairy shrimp (*Branchinecta lynchi*), vernal pool fairy shrimp critical habitat, Swainson's hawk (*Buteo swainsoni*), western snowy plover (*Charadrius alexandriunus nivosus*), valley elderberry longhorn beetle (*Desmocerus californicus dimorphus*), bald eagle (*Haliaeetus leucocephalus*), northern spotted owl (*Strix occidentalis caurina*), California black rail (*Laterallus jamaicensis coturniculus*), salt marsh harvest mouse (*Reithrodontomys raviventris*), Alameda whipsnake (*Masticophil lateralis euryxanthus*), California clapper rail (*Rallus longirostris obsoletus*), California freshwater shrimp (*Syncaris pacifica*), Conservancy fairy shrimp (*Branchinecta conservation*), delta green ground beetle (*Elaphrus viridis*), vernal pool tadpole shrimp (*Lepidurus packardii*) critical habitat, callippe silverspot butterfly (*Speyeria callippe callippe*), giant garter snake (*Thamnophis gigas*), California brown pelican (*Pelecanus occidentalis californicus*), and California least tern (*Sternula antillarum browni*).

Federal and state listed fish within the nine USGS quadrangles are: delta smelt (*Hypomesus transpacificus*), delta smelt critical habitat, steelhead—central California coast DPS (*Oncorhynchus mykiss irideus*), green sturgeon (*Acipenser medirostris*), tidewater goby (*Eucyclogobius newberryi*), coho salmon (*Oncorhynchus kisutch*), chinook salmon (*Oncorhynchus tshawytscha*), and chinook salmon critical habitat. If this project is restricted to areas on shoulder backing or areas immediately adjacent to the shoulder; this project should not have any effects to listed fish species.

Caltrans concludes that this project will not have an effect to listed species because suitable habitats for all species are not found within the project location.

Wetlands/Water:

Waters of the US is limited to Blueline Creek on the west side of State Route 780 at PM 7.182. This project should not affect wetlands or Waters of the U.S. but due to the

proximity of Blueline Creek, site visits should be conducted to verify that there are no wetlands or Waters of the US within the project site.

Migratory Bird Treaty Act

The Migratory Bird Treaty Act (MBTA; 16 U.S.C. 703-711) protects migratory birds from unlawful activities. Any work within the project limits during nesting season will require protections for Migratory Nesting Birds. Caltrans' constraints measures will provide protection for these species for this project (see Constraints section). Trees that will be cut or trimmed will need to be checked for birds during the nesting season (February 1st thru August 31st).

Permits

It is unlikely that consultation with CDFG or USFWS will be necessary as this project is minimal in nature and areas to be impacted are unsuitable habitat for threatened or endangered species. This project may require consultation with ACOE.

Constraints

The following measures are necessary to protect biological resources:

- Contractors should utilize Caltrans best management practices (BMPs).
- If clearing and grubbing is required, as a precaution, the biologist suggests completing this work between August 31 and February 1 to comply with the MBTA. If any work is to happen outside of this work window Caltrans Biologist will need three working days notice prior to commencement of construction activities to perform a survey for ground/nesting birds. Biologist will inspect 25 m² around the project area to ensure there are no nesting migratory birds in the vegetation.

It is in Caltrans opinion that by complying with these constraints that the proposed work at this location will not adversely affect any listed species.

Further Inquires for Design/Construction

- Where are the construction impacts going to occur?
 - Need to know when construction is going to go into unpaved right of way
- Will staging be required?
 - Staging areas will need to be identified if needed.

Disclaimer

This Preliminary Environmental Analysis Report (PEAR) provides information to support programming of the proposed project. It is not an environmental determination or document. Preliminary analysis, determinations, and estimates of mitigation costs are based on the project description provided in the Project Scope Summary Report (PSSR). The estimates and conclusions in the PEAR are approximate and are based on cursory analyses of probable effects. A reevaluation of the PEAR will be needed for changes in project scope or alternatives, or in environmental laws, regulations, or guidelines.

Review and Approval

I confirm that environmental cost, scope, and schedule have been satisfactorily completed and that the PEAR meets all Caltrans requirements. Also, if the project is scoped as a routine EA, complex EA, or EIS, I verify that the HQ DEA Coordinator has concurred in the Class of Action.



Environmental Branch Chief

Date: 9/15/2011

Project Manager

Date: _____

REQUIRED ATTACHMENTS:

- PEAR Environmental Studies Checklist**
- PEAR Environmental Commitments Cost Estimate**

Environmental Technical Reports or Studies Required (EA 4A040K)

	Study or Report	Document Text Only	Not Anticipated
Community Impact Study	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Farmland	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Section 4(f) Evaluation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Visual Resources	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Water Quality	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Floodplain Evaluation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Noise Study	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Air Quality Study	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Paleontology	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Wild and Scenic River Consistency	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Cumulative Impacts	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Growth Inducing/Indirect Impacts	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Cultural			
Archaeological Survey Report (ASR)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Historic Resources Evaluation Report (HRER)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Historic Property Survey Report (HPSR)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Historical Resource Compliance Report	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SHPO / PRC 5024.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Native American Coordination	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other Finding of Effect:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Data Recovery Plan:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Memorandum of Agreement*	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
(*if Federal Permit is required)			
Hazardous Waste			
ISA (Additional)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PSI	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Biological			
Endangered Species (Federal)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Endangered Species (State)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Species of Concern (CNPS, USFS, BLM, S, F)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Biological Opinion (USFWS, NMFS, State)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Fish Passage Barriers Assessment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wetlands	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Invasive Species	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Natural Environment Study	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NEPA 404 Coordination	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other (Nesting Bird and Bat Studies)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

PEAR Mitigation and Compliance Cost Estimate*

District 04	County SOL	Route 780	PM 7.07	EA 4A040K
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Description of Work: Replace Laurel Street Bridge Overcrossing

Project Manager	James Hsiao	Date	
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Prepared by	Phillip Badal	Date	
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	Mitigation			Compliance
	Project Feature ¹	Enviro. Obligation ²	Statutory Require. ³	Permit & Agreement ⁴
Fish & Game 1602 Agreement				
Coastal Development Permit				
State Lands Agreement				
NPDES Permit				
COE 404 Permit- Nationwide				
COE 404 Permit- Individual				
COE Section 10 Permit				
COE Section 9 Permit				
Other:				
Noise attenuation				
Special landscaping				
Archaeological				
Biological				
Wetland/riparian				
Historical				
Scenic resources				
Asbestos Testing/Mitigation				
Other:				
TOTAL (included in project cost estimate)	TBD	TBD	TBD	TBD

Costs are to include all costs to complete the commitment including: 1) capital outlay and staff support; 2) cost of right-of-way or easements; 3) long-term monitoring and reporting; and 4) any follow-up maintenance.

¹ Mitigation that Caltrans would normally do if not required by a permit or environmental agreement.
² Mitigation that Caltrans would not normally do but is required by conditions of a permit or environmental agreement.
³ Mitigation that Caltrans would not normally do and is not required by a permit or Enviro. Agreement, but is required by a law.
⁴ Non-mitigation Caltrans would not normally do but is required by conditions of a permit or agreement.

Long Form - Stormwater Data Report



Dist-County-Route: 04-SOL-780
 Post Mile Limits: 7.07
 Project Type: Bridge Replacement
 Project ID (or EA): 4A040K
 Program Identification: 20.XX.201.322
 Phase: PID
 PA/ED
 PS&E

Regional Water Quality Control Board(s): San Francisco Bay (Region 2)

Is the Project required to consider Treatment BMPs? Yes No
 If yes, can Treatment BMPs be incorporated into the project? Yes No
 If No, a Technical Data Report must be submitted to the RWQCB
 at least 30 days prior to the projects RTL date. List RTL Date: _____

Total Disturbed Soil Area: TBD Risk Level: 2
 Estimated: Construction Start Date: October 2015 Construction Completion Date: December 2017
 Notification of Intent (NOI) Date to be submitted: November 2017

Erosivity Waiver Yes Date: _____ No
 Notification of ADL reuse (if Yes, provide date) Yes Date: _____ No
 Separate Dewatering Permit (if yes, permit number) Yes Permit # _____ No

This Report has been prepared under the direction of the following Licensed Person. The Licensed Person attests to the technical information contained herein and the date upon which recommendations, conclusions, and decisions are based. Professional Engineer or Landscape Architect stamp required at PS&E.

Anwer Keval, Registered Project Engineer _____ Date _____

I have reviewed the stormwater quality design issues and find this report to be complete, current and accurate:

James Hsiao, Project Manager _____ Date _____

Robert Braga, Designated Maintenance Representative _____ Date _____

David Yam, Designated Landscape Architect Representative _____ Date _____

Brian J. Rowley, District Design SW Designee _____ Date 09/15/2017

[Stamp Required for PS&E only]

STORMWATER DATA INFORMATION

1. Project Description

- This project proposes to replace the existing Laurel Street Over-Crossing (Bridge No. 23-0119) located along Interstate (I) 780 at post-mile (PM) 7.07, in Solano County. The purpose is to bring the structure into compliance with the Department Bridge Preservation Program. Specifically, the impetus for the project is to increase the vertical clearance from 14.83 feet (ft) to 16.5 ft. For a detailed project description, please see the approved Project Scope Summary Report (PSSR).
- Operations characteristic of the proposed project, that are of water quality concerns, include, but are not limited to, the following: earthwork, slope stabilization and sediment control, concrete management, pavement surfacing, and fluid and waste containment.
- At this planning phase, the disturbed soil area (DSA) has not been calculated, but it is anticipated that it will be greater than 1.0 acre. Another quantity of water quality concern is the net increase of impervious surface. Whereas this project proposes a complete replacement, the net increase of impervious surface will equate to the new bridge surface; this will include both travelled-way and sidewalks. As with DSA, at this planning phase, the geometrics have not been determined; impervious areas will be calculated and reported in the Project Approval/Environmental Document (PA/ED) Stormwater Data Report (SWDR).
- Additionally, the project is located within the Solano County MS4.

2. Site Data and Storm Water Quality Design Issues

- The project site is located within Hydrologic Sub-Area (HSA) 206.50, with the ultimate downstream receiving water bodies including Carquinez Strait and San Pablo Bay. Further investigation is necessary to determine if stormwater run-off is conveyed beyond the specific project location and discharged to either primary tributaries of, or directly to, these 303(d) water bodies.
- The climate in the project area is of Mediterranean-type and is moderated by the greater San Francisco Bay. There are no seasonal restrictions for this project, although, the rainy season has been defined as October 15th to April 15th. Although there is a defined rainy season, the Regional Water Quality Control Boards require year-round stormwater construction site management.
- Throughout the project limits, the land use beyond Department Right-of-Way varies from suburban and light commercial. The topography is characteristic of rolling hills to the north/northeast, and Carquinez Strait and San Pablo Bay to the south and west, respectively.

3. Regional Water Quality Control Board Agreements

- The project limits fall within the jurisdiction of the San Francisco Bay Regional Water Quality Control Board (Region 2).
- A Clean Water Act Section 401 Certification, issued by Region 2, should be anticipated. A further vetting of permit necessity will continue, and be determined, during the subsequent PA/ED phase.

4. Proposed Design Pollution Prevention BMPs to be used on the Project.

- Design Pollution Prevention BMPs are permanent measures installed to promote slope and surface stability, with a goal of preventing post-construction downstream erosion and sediment transport.
- Slope/Surface protection measures that may be recommended include: fiber rolls, erosion control (Type D) and erosion control netting.
- If any Environmentally Sensitive Areas (ESAs) are known to exist within the limits of the proposed project, these areas will be fenced to exclude construction access. Further, if clearing, grubbing and tree removal is required, existing vegetation will be retained to the maximum extent practicable (MEP).
- For the planning phase, a percent-cost method was used to provide a Design Pollution Prevention BMP estimate; 0.75% of the project construction cost was recommended. Erosion control shall be further investigated during the future Plans, Specifications, and Estimate (PS&E) phase.

5. Proposed Permanent Treatment BMPs to be used on the Project

- Whereas a 401 Certification is anticipated, Treatment BMPs should be considered as a regulatory requirement. Even if determined that a 401 Certification is not required, Treatment BMPs must be evaluated for incorporation into the project design; see the attached Evaluation Documentation Form. Thus far, specific Treatment BMPs have not yet been recommended, but biofiltration/bioretenion devices (i.e. biofiltration strips and biofiltration/bioretenion swales) are preferred.
- Treatment BMPs shall be further investigated during the present planning and subsequent PA/ED and PS&E phases. Additionally, for the planning phase, a percent-cost method was used to provide an estimate; 0.75% of the project construction cost was recommended.

6. Proposed Temporary Construction Site BMPs to be used on Project

- Due to the scope of the proposed project, a Stormwater Pollution Prevention Plan (SWPPP) is anticipated. If required, this will be included as Standard Special Provision (SSP) 07-345 during the PS&E phase. SSP 07-345 details requirements during the construction phase that prescribes compliance with the Statewide Construction General Permit (General Permit), issued by the SWRCB (Order No. 2009-0009-DWQ).
- Per to the General Permit, a risk determination was performed for the Project. Using the Geographical Information System (GIS) method, the result was Risk Level 2. This corresponded to a "High" sediment risk, but "Low" receiving water body risk; see attached for the "Combined Risk Level Matrix." The Risk Level will be refined during the PS&E phase.
- In order to minimize, or prevent, impacts to existing water quality, temporary Construction Site BMPs will be recommended based on anticipated construction operations. Accompanying



implementation of the temporary BMPs, Special Provisions for water quality sampling, monitoring, and reporting shall be adhered to by the Contractor.

- For temporary slope/surface stability and sediment control, the following BMPs may be recommended: fiber roll, silt fence, cover, hydraulic mulch-bonded fiber matrix, construction entrance, move-in/move-out, and street sweeping. Temporary drainage inlet protection will be required to prevent transport of sediment downstream.
- As stated in Section 1, concrete operations are a concern. To capture waste, temporary concrete washout facilities (type yet to be determined) will be required.
- In addition to any bid-line items, Construction Site Management will be recommended as a lump sum, in order to capture waste and material management necessities beyond the prescribed bid-line items.
- For the planning phase, as with other BMPs, a percent-cost method was used to provide a Construction Site BMP estimate; 1.5% of the project construction cost was recommended.

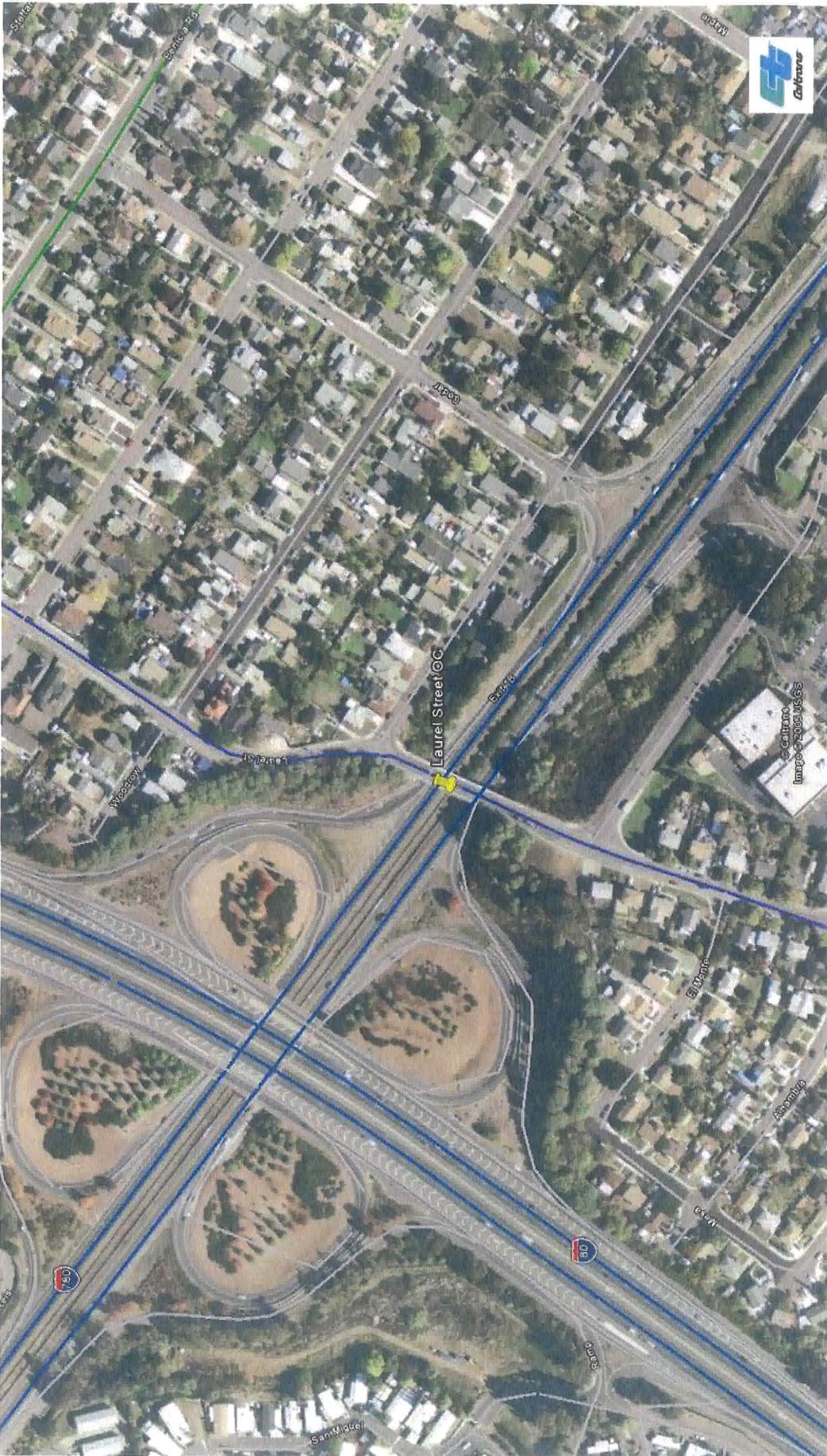
7. Maintenance BMPs (Drain Inlet Stenciling)

- Pedestrians and cyclists will have access to the structure, thus drain inlet stenciling is required.

Required Attachments

- Vicinity Map
- Satellite Image of Project Location
- Evaluation Documentation Form
- Risk Level Determination Summary Matrix





Evaluation Documentation Form

DATE: 09/15/2011

Project ID (or EA): 4A040K

NO.	CRITERIA	YES ✓	NO ✓	SUPPLEMENTAL INFORMATION FOR EVALUATION
1.	Begin Project Evaluation regarding requirement for consideration of Treatment BMPs	✓		See Figure 4-1, Project Evaluation Process for Consideration of Permanent Treatment BMPs. Go to 2
2.	Is this an emergency project?		✓	If Yes , go to 10. If No , continue to 3.
3.	Have TMDLs or other Pollution Control Requirements been established for surface waters within the project limits? Information provided in the water quality assessment or equivalent document.	✓		If Yes , contact the District/Regional NPDES Coordinator to discuss the Department's obligations under the TMDL (if Applicable) or Pollution Control Requirements, go to 9 or 4. <u>BJR</u> (Dist./Reg. SW Coordinator initials) If No , continue to 4.
4.	Is the project located within an area of a local MS4 Permittee?	✓		If Yes . (Solano County), go to 5. If No , document in SWDR go to 5.
5.	Is the project directly or indirectly discharging to surface waters?	✓		If Yes , continue to 6. If No , go to 10.
6.	Is it a new facility or major reconstruction?	✓		If Yes , continue to 8. If No , go to 7.
7.	Will there be a change in line/grade or hydraulic capacity?			If Yes , continue to 8. If No , go to 10.
8.	Does the project result in a <u>net increase of one acre or more of impervious surface</u> ?	✓		If Yes , continue to 9. If No , go to 10. (Net Increase Impervious Surface = TBD)
9.	Project is required to consider approved Treatment BMPs.	✓		See Sections 2.4 and either Section 5.5 or 6.5 for BMP Evaluation and Selection Process. Complete Checklist T-1 in this Appendix E.
10.	Project is not required to consider Treatment BMPs. _____(Dist./Reg. Design SW Coord. Initials) _____(Project Engineer Initials) _____(Date)			Document for Project Files by completing this form, and attaching it to the SWDR.

See Figure 4-1, Project Evaluation Process for Consideration of Permanent Treatment BMPs



Combined Risk Level Matrix

		<u>Sediment Risk</u>		
		Low	Medium	High
<u>Receiving Water Risk</u>	Low	Level 1	Level 2	
	High	Level 2		Level 3

Project Sediment Risk: **High**

Project RW Risk: **Low**

Project Combined Risk: **Level 2**