

11-IMP-98-PM 34.1 to 45.5
20.XX.201.121
11-40750K
(E-FIS) 11-00020403
August 2011

CAPITAL PREVENTIVE MAINTENANCE PROJECT REPORT

To

Request Programming in the 2012 SHOPP And Provide Project Approval

On State Route 98

Between 0.3 Miles West of All American Canal Br

And Holdridge Road

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



JANET SCHAFFER

DISTRICT DIVISION CHIEF- RIGHT OF WAY

APPROVAL RECOMMENDED:



JESUS VARGAS
PROJECT MANAGER

APPROVED:



ROSS CATHER
DEPUTY DISTRICT DIRECTOR

8/19/11
DATE

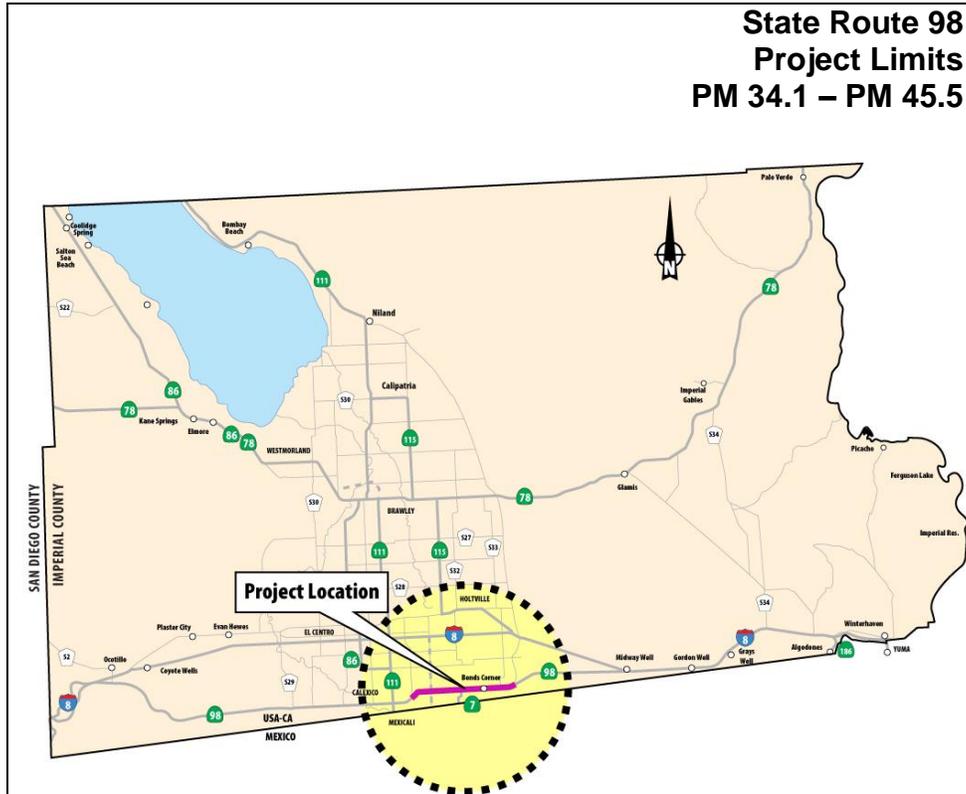
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This Capital Preventive Maintenance Project Report has been prepared by Frank Contreras under the direction of the following Registered Engineer. The registered civil engineer attests to the technical information contained herein and the engineering data upon which recommendations, conclusions, and decisions are based.

Frank Contreras 8-17-11
REPORT PREPARED BY DATE

Roy Flores 8-17-11
REGISTERED CIVIL ENGINEER DATE



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1. INTRODUCTION AND BACKGROUND

This Project proposes to rehabilitate the asphalt concrete (AC) pavement of State Route 98 (SR 98) from 0.3 miles west of the All American Canal Bridge to Holdridge Road in Imperial County; PM 34.1 to 45.5 (Exhibit 1). The main scope of work consists of cold-planing at various locations and overlay of the entire road bed, and upgrade existing dike as well as metal beam guardrail (MBGR). Also, ADA compliant curb ramps are proposed at the signalized intersection of Cole Rd.

The project cost (2011) is **\$9,400,000**, and proposes to be funded from the 20.10.201.121 Program in the 2013/2014 Fiscal Year. This project will be rehabilitating 27 lane miles including 10 retired distressed miles (Exhibit 14).

This pavement rehabilitation project is proposed as a 2012 State Highway Operation Protection Program (SHOPP) candidate in 2013/2014 Fiscal Year.

See the 11-Page Cost estimate for specific work items included in this project (Exhibit 12).

Project Limits	11-IMP-98- PM 34.1/45.5
Construction Capital Costs (2011):	\$7,754,000
Right of Way Capital Costs:	\$1,000
Support Costs:	\$1,620,000
Type of Facility	Conventional Highway
Environmental Determination/Document	Cat Exemption/ Cat Exclusion Approved June 7, 2011

2. RECOMMENDATION

This Capital Preventive Maintenance (CAPM) report recommends that the project be approved and proceeds to the design phase in order to extend the service life of the facility and to reduce maintenance expenditure.

3. PURPOSE AND NEED STATEMENT

Need:

This segment of SR 98 has an Average Daily Traffic (ADT) of over 13,000 vehicles. Roadway use leads to wear and tear to the existing pavement. The existing asphalt concrete pavement has a moderate to high percentage of alligator cracking, tire rutting, and longitudinal cracking. Steady increase in truck traffic within the past 10 years has accelerated the deterioration of the pavement. Pavement distress is evident and without any improvements, the roadway will continue to deteriorate.

Purpose:

The purpose of this project is to extend the existing pavements service life through the CAPM Program. Pavement improvements of the traveled way lanes and shoulders are needed to restore structural integrity and ride quality of the existing pavement. Implementing these improvements will reduce the need for costlier and more intrusive improvements in the future.

4. EXISTING FACILITY, DEFICIENCIES AND TRAFFIC DATA

State Route 98 is characterized as a 2 to 3 lane conventional highway with 8 to 12 foot shoulders. Cole Road (PM 35.2) is signalized at the SR-98 intersection with pedestrian crossing push buttons. However, there are no existing wheel-chair ramps at the intersection. Therefore, wheel-chair ramps shall be installed at the signalized intersection of SR-98/Cole Rd.

4A. ROADWAY GEOMETRIC INFORMATION

Facility	Minimum	Through Traffic Lanes			Paved Shoulder Width		Median	Bicycle / Ped Path Separated from the Roadbed	Bridge Approach Slab Work
		Location (Post Miles)	Curve Radius	No. of Lanes	Lane Width	Pavement Type			
34.1/35.6	2500'	2 - 3	12'	Flexible	8'	8'	*	None	No
35.6/43.0	2950'	2 - 3	12'	Flexible	0' - 8'	8'	*	None	No
43.0/43.3	3855'	2	12'	Flexible	0'	8'	*	None	No
43.3/44.8	1000'	2	12'	Flexible	0' - 5'	8' - 10'	*	None	No
44.8/45.5	1750'	2	12'	Flexible	4'	10' - 12'	*	None	No

Remarks: * The existing roadway is a 2-lane undivided highway. (Exhibit 2)

4B. CONDITION OF EXISTING FACILITY

(1) Traveled Way Data

PMS Category (1-29) 8 Priority Classification (.1-4) .3

International Ride Index 170

Rigid Pavement:

***Flexible Pavement:**

* From latest PMS-Pavement Condition Inventory Survey Data. (See Exhibit 3)

3rd Stage Cracking % 0%

Alligator B Cracking % = 44-63%**

Faulting No

Patching % 0%

Joint Spalls No

Rutting Minimal**

Pumping No

Bleeding No

Corner Breaks % 0%

Raveling No

Locations(s) of subsurface or ponded surface-water: None

Remarks:

**Based on Field Review: 3rd stage cracking= 40%; Alligator B Cracking= 70%; Minimal Rutting identified

During the field review, there were long longitudinal cracks along the saw-cut lines where prior widening occurred. There was also slight differential pavement settlement evident along the longitudinal cracks.

Deflection Studies:

Per the CAPM strategy, the maximum 0.20' RHMA-G overlay will be placed.

(2) Pedestrian Facility Data: N/A

Facility Type and Location(s)	Meets ADA Standards?	If Facility does not meet ADA Standards, what feature(s) are not ADA compliant?	Status of Each Noncompliant Location
Sidewalks: <i>(List locations as appropriate)</i>	<u>N/A</u>		
Wheelchair Ramps: Cole Rd (PM 35.2)	<u>No</u>	Existing crossing buttons, but no existing curb ramps.	<u>Will be corrected as part of this project.</u>

Note: The current pedestrian facilities include crosswalk buttons at the signalized intersection at Cole Rd (PM 35.2). However, there are no wheelchair ramps at the intersection. This project will add pedestrian crossing wheelchair ramps at the SR-98/Cole Rd intersection. There are also no existing sidewalks. Wheelchairs are permitted to use the outside shoulders. The push button in the Southwest quadrant should consider being relocated to the other side of the signal pole to avoid conflicts with the existing pull boxes in the area.

There are also existing crosswalks with crossing buttons at the signalized intersections on SR-98 at Menvielle Rd (PM 39.2) and State Route 7 (SR-7) (PM39.7).

(3) Bicycle Path Data: N/A

This project does not have designated bike paths or sidewalks on the main lanes. Bicyclists are permitted to use the outside shoulders.

4C. STRUCTURES INFORMATION

The following structures are within this project:

- 58-0260 - All American Canal
- 58-0135- Central Main Canal
- 58-0200 - Ash Main Canal
- 58-0136 - Alamo River
- 58-0258 -Hemlock Main Canal

Remarks:

There are no vertical clearance issues that will be created due to the overlay that will be placed. There are no overcrossings within the project limits.

The pavement work pertaining to the structures will be performed as follows:

- 1) All American Canal:
Existing: Intersects with Bowker Rd. There is an AC section on the concrete culvert.
Proposed: Cold plane (0.15') and replace with same thickness. Then place an AC overlay (0.20')
- 2) Central Main Canal:
Existing: There is not an AC wearing surface.
Proposed: Since there is not an AC wearing surface, a conforming detail is necessary to tie-in the main lanes to the existing grade of the structure.
- 3) Ash Main Canal:
Existing: 2009 Bridge Inspection Report states there is a 0.15' overlay on the structure.
Proposed: Cold plane the 0.15' overlay and replace to existing grade. The conforming detail is necessary.
- 4) Alamo River:
Existing: There is not an AC wearing surface.
Proposed: The conforming detail is necessary.
- 5) Hemlock Main Canal:
Existing: 2009 Bridge Inspection Report states there is a 0.15' overlay on the structure.
Proposed: Cold plane the 0.15' overlay and replace to existing grade. The conforming detail is necessary.

See the typical cross section (Exhibit 2) for the pavement conforming detail.

Structures Maintenance has concurred with the scope of work relating to the structures.

4D. VEHICLE TRAFFIC DATA

Traffic Volumes

Bowker Road to State Route 7 (PM 34.1/39.6)

Construction Year (2014) ADT 13,750

DHV 2850

% Trucks 13.3

Remarks:

The 2019 ADT is expected to increase to 22,000 vehicles and to 34,000 by 2035. Peak hours will steadily increase from 2009 to 2035. With anticipated PHV's of 1,580 each way for 2035,

additional improvements will be needed to accommodate future traffic, especially at Cole Rd, State Route 7, and other intersections.

State Route 7 to Holdridge Road (PM 39.6/45.5)

Construction Year (2014) ADT 2,820

DHV 380

% Trucks 26.5

Remarks:

The 2019 ADT is expected to increase to 3,200 vehicles and to 4,100 by 2035. Peak hours will increase by about double from 2009 to 2035.

Safety Review Date: 5/23/2011

Remarks:

Per the Table B Selective Accident Rate Calculation, there have been no fatalities in the three-year history from 2007-2010 for the post-miles of the project. The total accident rate in this location is also lower than the statewide average by about one-half.

5. CORRIDOR AND SYSTEM COORDINATION

This project is compatible with other projects in the area as well as with long term corridor and system planning. Per the State Route 98 Transportation Concept Summary (TCS), capacity improvements to SR-98 are needed to facilitate interregional travel. The TCS developed two major capacity-enhancing projects for SR-98 that includes widening the west portion of the project to a four-lane highway with six lanes in some sections.

6. ALTERNATIVES

6A. CAPM STRATEGY:

The project will consist of cold planing the existing AC (0.15') and placing Hot Mix Asphalt (HMA), Type A, back at various identified locations. A Rubberized Hot Mix Asphalt – Gap Graded (RHMA-G) overlay will be placed from edge of pavement to edge of pavement for the entire construction limits (PM 34.1/45.5) (Exhibit 4). Per the CAPM strategy, the maximum overlay (0.20') will be placed. This will increase the service life of the pavement. A high stability AC mix from at least the intersection of State Route 98 and State Route 7 (PM 39.6) to the end of the construction limits (PM 45.5) is recommended, if not the entire construction limits. There is a

high volume of truck traffic from the intersection to the eastern segment of the roadway, which suggests a high stability AC mix be used. Traffic paint striping and pavement markers will be required to be replaced in-kind once the overlay is placed.

Life Cycle Cost Analysis:

A Life Cycle Cost Analysis (LCCA) was performed to compare alternatives of RHMA vs. HMA. The Analysis reinforced the conclusion for RHMA to be used. RHMA was also the recommended alternative to use for the CAPM project (Exhibit 11).

Enhancements:

Existing dike, Metal Beam Guardrail (MBGR), and end treatments will be upgraded to the current standards or will be replaced in kind if they are already so. Shoulder backing will also be placed throughout the project.

6B. ENVIRONMENTAL COMPLIANCE:

On June 7, 2011, the project was determined to be Categorical Exempt, Class 1, under the California Environmental Quality Act (CEQA). The project was also determined to be Categorical Excluded under Section 6604 of Chapter 3 of Title 23, United States Code, Section 326; and 23 CFR 771.117(d).

Two NEPA/CEQA re-validations were received due to minor changes in the scope of work. The original CE remains valid. (Exhibit 5)

Biological conditions apply to this project and are contained in the attached Environmental Commitments Record (ECR). Conditions that apply include areas outside of the project footprint are considered environmentally sensitive areas, no work is authorized in the drainages, and staging and storage is not permitted on the westbound shoulder (north side) of SR-98, due to the potential for burrowing owls (Exhibit 5).

Stormwater Compliance:

On July 15, 1999 State Water Resources Control Board, SWRCB, adopted Order 99-06 Division of Water Quality DWQ, National Pollutant Discharge Elimination System (NPDES) Permit for Storm Water Discharges from the State of California Department of Transportation (CALTRANS) properties, facilities and activities. This project will be designed in conformance with the NPDES Permit requirements. The Project Planning and Design Guide Manual was used to determine the appropriate Best Management Practices (BMPs) as follows:

Design Pollution Prevention BMPs:

- The disturbed soil area will be stabilized with permanent erosion control as part of this project.

Erosion Control Recommendation (Bonded Fiber Matrix):

Bonded fiber matrix consists of a wood or wood/paper fiber blanket bonded together by a polymer tackifier.

The Erosion Control (Bonded Fiber Matrix) specification includes the following steps:

1. A hydroseed truck sprays wood fiber and tackifier from one direction.
2. A hydroseed truck sprays wood fiber and tackifier from a second direction.

Seed:

No Seed.

6C. HAZARDOUS WASTE DISPOSAL SITE

Per the Memo (Exhibit 6) received on April 20, 2011 from Environmental Engineering, there are generally no concerns due to Aerially Deposited Lead (ADL) in the project area. SSP 07-330, for minimal disturbance, should be used for the excavation on this project. No soil is anticipated to leave the project site. If any soil is released to the contractor an ADL study will be required.

The areas of concern will be the Treated Wood Waste (TWW) from metal beam guard rail replacement and the paint stripe. Treated wood waste is wood that has been treated with a chemical preservative, such as the wood posts from the guardrails and signs to be removed. The TWW must not be relinquished to the contractor. It must be reused on the job or disposed of at a composite-line solid waste landfill facility that's permitted to accept such waste. Management of treated wood waste needs to follow title 22 CA Code of Regulations, Division 4.5, Chapter 34. The TWW Special Provision (SSP) 14-010 will need to be used.

Hazardous levels of lead chromate may be present in the existing paint stripe. SSP 14-001 will be required which includes A Lead Compliance Plan for the paint stripe removal and the pavement marking removal activities.

6D. OTHER AGENCIES INVOLVED (PERMITS/APPROVALS FROM FISH & GAME, CORPS OF ENGINEERS, COASTAL COMMISSION, ETC.):

Not Applicable.

6E. MATERIALS AND OR DISPOSAL SITE NEEDS AND AVAILABILITY.

The project shall comply with Section 7-1.13 of the Standard Specifications. Disposal of material shall be deposited outside the State right of way.

Two staging areas have been identified as possible locations for the contractor (Exhibit 7). The proposed areas have been reviewed and approved by Environmental (Exhibit 5).

6F. ROADSIDE DESIGN AND MANAGEMENT:

The existing lane configuration of this segment of SR-98 (one lane in each direction, turning pockets, and various passing lanes) is anticipated to widen to four lanes with some six-lane sections. The future improvements are expected to serve traffic projections up to the year 2050.

Per the request of the District 11 Traffic Operations, there are milepost markers missing on SR-98 at Post-mile 35.5 (WB) and Post-mile 44.0 (EB). They will be installed as part of the project.

6G. RIGHT OF WAY ISSUES:

A Right of Way Data Sheet (Exhibit 9) was provided on June 6, 2011. No Right of Way is required. Utility conflicts must be verified during the PS&E phase at locations where MBGR will be removed and replaced, and where wheelchair ramps are to be placed.

6H. RAILROAD INVOLVEMENT:

There is no railroad impact within the project limits or vicinity.

6I. RECYCLED MATERIALS:

Cold Planed AC will become the property of the contractor. Contractor has the option to recycle material into the overlay mix.

6J. LOCAL AND REGIONAL INPUT:

Due to the scope of this project Local and Regional input was not necessary. Nevertheless, a community plan will be developed prior to construction in the form of newspaper announcements, informational mailings and radio

announcements to notify the general public of construction activities.

6K. WHAT ARE THE CONSEQUENCES OF NOT DOING THIS ENTIRE PROJECT?

Not doing this entire project will cause the pavement to continue to deteriorate to the point where it will cost significantly more to do a rehabilitation project in the future.

7. TRANSPORTATION MANAGEMENT

7A. TRANSPORTATION MANAGEMENT PLAN

A Traffic Management Plan was created and approved on June 2, 2011 (Exhibit 10).

7B. VEHICLE DETECTION SYSTEMS

The following table reflects work involving vehicle detection systems, as requested by District 11 Traffic Operations. That Station numbers represent counting stations with their corresponding post-mile.

Station	Post Mile	Repair Needed
664	35.197	Replace Loops and Piezo sensors, cabinet replacement needed
667	39.564	Replace Loops and Piezo sensors.
666	39.564	Replace Loops and Piezo sensors.

The following existing stations are not to be damaged. If they are damaged, replacements will be required.

Station	Post Mile
864	36.630
866	36.630
867	41.095

The cabinet will be replaced in-kind, Type G. The door is rusted and old, and in need of maintenance. The cabinet is mounted on a steel pole within a concrete platform. The existing pole and concrete will remain as is and only the cabinet is to be replaced.

8. FUNDING/SCHEDULING

8A. COST ESTIMATE

	Cost³
Pavement Work	
Total Lane-Miles of CAPM Work	<u>27</u>
Digouts ¹	
RHMA Overlay of AC Pavement (recycle not included) ²	<u>\$4,275,050</u>
Shoulder Backing	<u>\$97,600</u>
Cold Plane AC ¹ /Replace AC [^]	<u>\$183,200</u>
Develop water supply	<u>\$10,000</u>
Dike Remove & Replace	<u>\$37,700</u>
Curb Ramps	<u>\$11,200</u>
COSTS SUBTOTAL	<u>\$4,507,150</u>

	Does the Project Include? (Yes/No)	Cost³
Non-pavement Work		
Specialty Items*	<u>Yes</u>	<u>\$165,200</u>
Environmental	<u>Yes</u>	<u>\$52,500</u>
Traffic Items	<u>Yes</u>	<u>\$574,500</u>
Minor Items	<u>Yes</u>	<u>\$270,400</u>
Supplemental Work	<u>Yes</u>	<u>\$531,100</u>
State Furnished Materials -3	<u>Yes</u>	<u>\$124,700</u>
COSTS SUBTOTAL		<u>\$1,718,400</u>
		<u>SUM OF</u>
		<u>SUBTOTALS</u>
		<u>10% Contingency</u>
		<u>\$679,000</u>
		<u>Mobilization</u>
		<u>\$454,200</u>
	TOTAL PROJECT COST	<u>\$9,375,000</u>

TOTAL ESCALATED PROJECT COST **\$11,150,000**

Notes: * Includes Lead Compliance Plan, MBGR, and End-treatments.
 ^ Includes resurfacing & groove of existing concrete.
 1. Cost to remove and replace localized failed areas.

2. Include cost of tack coat, HMA Type A, & shoulder edge, as needed.
3. Includes COZEEP, Public information office & RE office.

8B. PROJECT SUPPORT:

	PA&ED 0 Phase		Design 1 Phase		Right of way 2 Phase		Construction 3 Phase		Total
	Dist	DES	Dist	DES	Dist	DES	Dist	DES	
Estimated PY's	0	0	4.15	0.46	0.142	0	6.07	0.675	11.497
Estimated PS \$'s	0	0	585	65	20	0	855	95	1620
Estimated PYE \$'s (\$1000's)	0	0	0	0	0	0	0	0	0
Total \$'s (\$1,000's)	0	0	585	65	20	0	855	95	1,620

8C. PROJECT SCHEDULE:

Milestones	Delivery Date (Month, Day, Year)
CAPM /PR	August 24, 2011
Regular Right of Way	
Project PS&E	November 19, 2013
Right of way Certification	November 19, 2013
Ready to List	January 7, 2014
Approve Contract	May 15, 2014
CCA	May 29, 2014
End Contract	October 19, 2014

9. SCOPING TEAM FIELD REVIEW ATTENDANCE ROSTER:

Attachment Chi Vargas/Frank Contreraz Date 01/27/11

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ACNH-P098(016)E

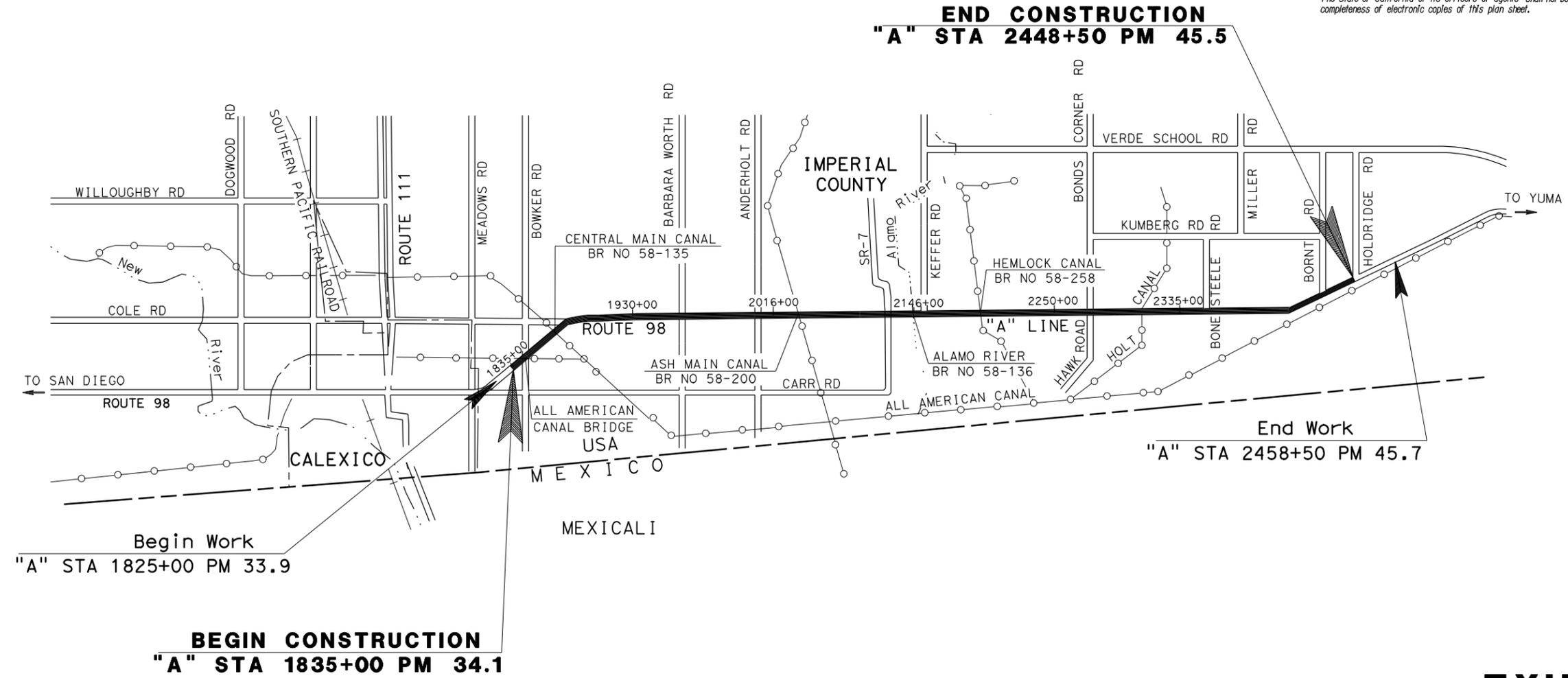
DIST	COUNTY	ROUTE	POST MILE TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	98	34.1/45.5	1	

**PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN IMPERIAL COUNTY
FROM 0.3 MILE WEST OF ALL AMERICAN CANAL
TO HOLDRIDGE ROAD**

To be supplemented by Standard Plans dated May, 2006



The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



PROJECT ENGINEER DATE

The Contractor shall possess the Class (or Classes) of license as specified in the "Notice to Contractors".

NO SCALE



USERNAME => s136736
DGN FILE => 40750K Title SR 98.dgn

CU 2759

EA 40750K

Contract No. **11-40750K**

EXHIBIT 1

TIME PLOTTED => 02-AUG-2011 09:17
LAST REVISION 06-30-11

Caltrans Maintenance Program 2007 Pavement Condition Survey Inventory Caltrans Drive Order

HA, District 11, IMP, Rte 098, PM 34 - 46

District 11 County IMP Route 098

Begin PM - End PM		Length	LaneMi. (Est.)	Type	AADT (,000)	MSL	Faulting		Patching	Ride, IRI	Priority	Skid	Defect
Lane	Surface Type	Alligator Cracking			Rutting, Bleeding	Slab Cracking			Area %	Poor Cond.?			
		A %	B %	C (Y/N)?		1st %	3rd %	Corner %					
33.522	-	34.432	0.910	1.820	2LNU	9	2						
L1	F-DG	0	50	Yes						10 105	8		HIGH ABC
R1	F-DG	0	50							7 94	8		HIGH ABC
34.439	-	34.822	0.383	0.766	2LNU	9	2						
L1	F-DG	0	50	Yes						10 105	8		HIGH ABC
R1	F-DG	0	50							12 114	8		HIGH ABC
34.822	-	34.834	0.012	0.024	2LNU	6	2						
L1	F-DG	0	50							21 150	8		HIGH ABC
R1	F-DG	0	63	Yes						26 170	8		HIGH ABC
34.838	-	34.842	0.004	0.008	2LNU	6	2						
L1	F-DG	0	50							N/A	8		HIGH ABC
R1	F-DG	0	63	Yes						N/A	8		HIGH ABC
34.861	-	36.022	1.161	2.322	2LNU	13	2						
L1	F-DG	0	50							7 95	8		HIGH ABC
R1	F-DG	0	63	Yes						5 87	8		HIGH ABC
37.722	-	38.143	0.421	0.842	2LNU	15	2						
L1	F-DG	0	50							5 77	8		HIGH ABC
R1	F-DG	0	50							5 69	8		HIGH ABC
38.151	-	39.022	0.871	1.742	2LNU	15	2						
L1	F-DG	0	50							7 93	8		HIGH ABC
R1	F-DG	0	50							5 72	8		HIGH ABC
40.422	-	40.599	0.177	0.354	2LNU	3	2						
R1	F-CS	0	44							9 101	8		HIGH ABC
40.606	-	41.722	1.116	2.232	2LNU	3	2						
R1	F-CS	0	44							6 91	8		HIGH ABC
43.222	-	44.522	1.300	2.600	2LNU	3	2						
L1	F-DG	0	50	Yes						5 81	8		HIGH ABC

*Surface type of 'EB' is Enhanced Binder.

Caltrans Maintenance Program 2007 Pavement Summary Caltrans Drive Order HA, District 11, IMP, Rte 098, PM 34 - 46

District **11**
County **IMP**
Route **098**
Begin PM **33.522**

District 11 County IMP Route 098

----- Maximum Observed Values -----

Priority	County	Route	Begin PM	- End PM	Length	Pave Type	Dir.	Trig. Dir.	Trig. Ln Mi	AADT (,000)	MSL	----- Maximum Observed Values -----					Int'l Rough. Index	Defect	
												Allig. A	Allig. B	Patch- ing	Bleed- ing	Rut- ting			1st St. Crk.
8	IMP	098	33.522	- 34.432	0.910	F	B	B	1.820	9	2	50						105	HIGH ABC
8	IMP	098	34.439	- 34.822	0.383	F	B	B	0.766	9	2	50						114	HIGH ABC
8	IMP	098	34.822	- 34.834	0.012	F	B	B	0.024	7	2	63						170	HIGH ABC
8	IMP	098	34.838	- 34.842	0.004	F	B	B	0.008	7	2	63						N/A	HIGH ABC
8	IMP	098	34.861	- 36.022	1.161	F	B	B	2.322	13	2	63						95	HIGH ABC
8	IMP	098	37.722	- 38.143	0.421	F	B	B	0.842	15	2	50						77	HIGH ABC
8	IMP	098	38.151	- 39.022	0.871	F	B	B	1.742	15	2	50						93	HIGH ABC
8	IMP	098	40.422	- 40.599	0.177	F	B	R	0.177	3	2	44						101	HIGH ABC
8	IMP	098	40.606	- 41.722	1.116	F	B	R	1.116	3	2	44						91	HIGH ABC
8	IMP	098	43.222	- 44.522	1.300	F	B	L	1.300	4	2	50						83	HIGH ABC

Total Triggered Lane Miles 10.117

**David
Evans/D11/Caltrans/CAGov**
07/08/2011 08:14 AM

To Frank Contreras/D11/Caltrans/CAGov@DOT
cc
bcc
Subject Re: EA 40750k SR-98 CAPM Overlay Structural Section
Recommendation 

History:  This message has been replied to.

Hi Frank,

Your proposed preventative maintenance strategy for this project is acceptable for the CAPM program. I concur with the plan explained below. Once we receive your plans for review, additional comments may be provided.

David Evans
District Pavement Engineer
District 11 Materials Lab

Frank Contreras/D11/Caltrans/CAGov

**Frank
Contreras/D11/Caltrans/CAGov**
07/07/2011 02:41 PM

To David Evans/D11/Caltrans/CAGov@DOT
cc
Subject EA 40750k SR-98 CAPM Overlay Structural Section
Recommendation

Hi David,

We have a project on SR-98 (EA 40750k) from PM 34.1/45.5. The scope of the project is to cold-plane various identified locations (0.15' deep) and replace the AC. After, our proposal is to place a Rubberized Hot Mixed Asphalt Overlay (0.20' thick). The 0.20' is the maximum per the CAPM strategy. The project will also upgrade existing dike and MBGR. I am requesting if you concur with the 0.20' and CAPM strategy for this project? I am sending out hard copies for review of this project in the next day. A copy will be sent to Art Padilla. Feel free to contact me with any questions or concerns. Thanks.

Frank Contreras, E.I.T.
District 11 Advanced Planning
4050 Taylor Street
San Diego, CA 92110 / MS 255
Office - (619) 688-0162
frank_contreras@dot.ca.gov

NEPA/CEQA RE-VALIDATION FORM

DIST./CO./RTE.	11-IMP-98
PM/PM	34.1-45.5
E.A. or Fed-Aid Project No.	40750K
Other Project No. (specify)	PI: 1100020403
PROJECT TITLE	SR-98 Pavement Rehabilitation
ENVIRONMENTAL APPROVAL TYPE	CE/CE
DATE APPROVED	06/07/2011
REASON FOR CONSULTATION (23 CFR 771.129)	<i>Check reason for consultation:</i> <input type="checkbox"/> Project proceeding to next major federal approval <input checked="" type="checkbox"/> Change in scope, setting, effects, mitigation measures, requirements <input type="checkbox"/> 3-year timeline (EIS only) <input type="checkbox"/> NA (Re-Validation for CEQA only)
DESCRIPTION OF CHANGED CONDITIONS	<i>Briefly describe the changed conditions or new information on page 2. Append continuation sheet(s) as necessary. Include a revised Environmental Commitments Record (ECR) when applicable.</i>

NEPA CONCLUSION - VALIDITY

Based on an examination of the changed conditions and supporting information: [Check ONE of the three statements below, regarding the validity of the original document/determination (23 CFR 771.129). If document is no longer valid, indicate whether additional public review is warranted and whether the type of environmental document will be elevated.]

- The original environmental document or CE remains valid. No further documentation will be prepared.
- The original environmental document or CE is in need of updating; further documentation has been prepared and is included on the continuation sheet(s) or is attached. With this additional documentation, the original ED or CE remains valid.
 Additional public review is warranted (23 CFR 771.111(h)(3)) Yes No
- The original document or CE is no longer valid.
 Additional public review is warranted (23 CFR 771.111(h)(3)) Yes No
 Supplemental environmental document is needed. Yes No
 New environmental document is needed. Yes No (If "Yes," specify type: _____)

CONCURRENCE WITH NEPA CONCLUSION

I concur with the NEPA conclusion above.


7/28/11

7/29/11
 Signature: Environmental Branch Chief Date Signature: Project Manager/DLAE Date

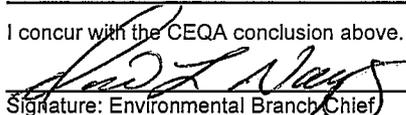
CEQA CONCLUSION : (Only mandated for projects on the State Highway System.)

Based on an examination of the changed conditions and supporting information, the following conclusion has been reached regarding appropriate CEQA documentation: (Check ONE of the five statements below, indicating whether any additional documentation will be prepared, and if so, what kind. If additional documentation is prepared, attach a copy of this signed form and any continuation sheets.)

- Original document remains valid. No further documentation is necessary.
- Only minor technical changes or additions to the previous document are necessary. An addendum has been or will be prepared and is included on the continuation sheets or will be attached. It need not be circulated for public review. (CEQA Guidelines, §15164)
- Changes are substantial, but only minor additions or changes are necessary to make the previous document adequate. A Supplemental environmental document will be prepared, and it will be circulated for public review. (CEQA Guidelines, §15163)
- Changes are substantial, and major revisions to the current document are necessary. A Subsequent environmental document will be prepared, and it will be circulated for public review. (CEQA Guidelines, §15162) (Specify type of subsequent document, e.g., Subsequent FEIR:)
- The CE is no longer valid. New CE is needed. Yes No

CONCURRENCE WITH CEQA CONCLUSION

I concur with the CEQA conclusion above.


7/28/11

7/29/11
 Signature: Environmental Branch Chief Date Signature: Project Manager Date

NEPA/CEQA RE-VALIDATION FORM

CONTINUATION SHEET(S)

Address only substantial changes or substantial new information since approval of the original document and only those areas that are applicable. Use the list below as section headings as they apply to the project change(s). Use as much or as little space as needed to adequately address the project change(s) and the associated impacts, minimization, avoidance and/or mitigation measures, if any.

Changes in project design, e.g., substantial scope change; a new alternative; change in project alignment

The updated scope of work includes the addition of traffic sensors at various locations, and replacement of a Type G Controller Cabinet located at PM 34.76 on the outside shoulder of eastbound SR-98. The traffic sensors will be placed within the pavement only. The cabinet will be replaced using the existing pole mount. No new soil disturbance will occur as a result of this work. All work is within Caltrans right-of-way.

Changes in environmental setting, e.g., new development affecting traffic or air quality;

There are no changes to the environmental setting of the proposed project.

Changes in environmental circumstances, e.g., a new law or regulation; change in the status of a listed species.

There are no changes in the environmental circumstances of the proposed project.

Changes to environmental impacts of the project, e.g., a new type of impact, or a change in the magnitude of an existing impact.

No additional impacts are associated with change in approved staging areas.

Changes to avoidance, minimization, and/or mitigation measures since the environmental document was approved.

N/A

Changes to environmental commitments since the environmental document was approved, e.g., the addition of new conditions in permits or approvals. When this applies, append a revised Environmental Commitments Record (ECR) as one of the Continuation Sheets.

There are no changes to environmental commitments record.

NEPA/CEQA RE-VALIDATION FORM

DIST./CO./RTE.	11-IMP-98
PM/PM	34.1-45.5
E.A. or Fed-Aid Project No.	40750K
Other Project No. (specify)	PI: 1100020403
PROJECT TITLE	SR-98 Pavement Rehabilitation
ENVIRONMENTAL APPROVAL TYPE	CE/CE
DATE APPROVED	06/07/2011
REASON FOR CONSULTATION (23 CFR 771.129)	Check reason for consultation: <input type="checkbox"/> Project proceeding to next major federal approval <input checked="" type="checkbox"/> Change in scope, setting, effects, mitigation measures, requirements <input type="checkbox"/> 3-year timeline (EIS only) <input type="checkbox"/> NA (Re-Validation for CEQA only)
DESCRIPTION OF CHANGED CONDITIONS	Briefly describe the changed conditions or new information on page 2. Append continuation sheet(s) as necessary. Include a revised Environmental Commitments Record (ECR) when applicable.

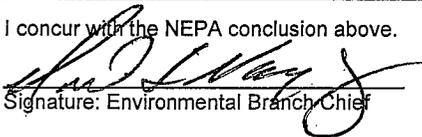
NEPA CONCLUSION - VALIDITY

Based on an examination of the changed conditions and supporting information: [Check ONE of the three statements below, regarding the validity of the original document/determination (23 CFR 771.129). If document is no longer valid, indicate whether additional public review is warranted and whether the type of environmental document will be elevated.]

- The original environmental document or CE remains valid. No further documentation will be prepared.
- The original environmental document or CE is in need of updating; further documentation has been prepared and is included on the continuation sheet(s) or is attached. With this additional documentation, the original ED or CE remains valid.
 Additional public review is warranted (23 CFR 771.111(h)(3)) Yes No
- The original document or CE is no longer valid.
 Additional public review is warranted (23 CFR 771.111(h)(3)) Yes No
 Supplemental environmental document is needed. Yes No
 New environmental document is needed. Yes No (If "Yes," specify type: _____)

CONCURRENCE WITH NEPA CONCLUSION

I concur with the NEPA conclusion above.


 _____ 6/29/11 _____ 6/29/11
 Signature: Environmental Branch Chief Date Signature: Project Manager/DLAE Date

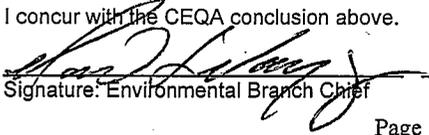
CEQA CONCLUSION : (Only mandated for projects on the State Highway System.)

Based on an examination of the changed conditions and supporting information, the following conclusion has been reached regarding appropriate CEQA documentation: (Check ONE of the five statements below, indicating whether any additional documentation will be prepared, and if so, what kind. If additional documentation is prepared, attach a copy of this signed form and any continuation sheets.)

- Original document remains valid. No further documentation is necessary.
- Only minor technical changes or additions to the previous document are necessary. An addendum has been or will be prepared and is included on the continuation sheets or will be attached. It need not be circulated for public review. (CEQA Guidelines, §15164)
- Changes are substantial, but only minor additions or changes are necessary to make the previous document adequate. A Supplemental environmental document will be prepared, and it will be circulated for public review. (CEQA Guidelines, §15163)
- Changes are substantial, and major revisions to the current document are necessary. A Subsequent environmental document will be prepared, and it will be circulated for public review. (CEQA Guidelines, §15162) (Specify type of subsequent document, e.g., Subsequent FEIR:)
- The CE is no longer valid. New CE is needed. Yes No

CONCURRENCE WITH CEQA CONCLUSION

I concur with the CEQA conclusion above.


 _____ 6/29/11 _____ 6/29/11
 Signature: Environmental Branch Chief Date Signature: Project Manager Date

NEPA/CEQA RE-VALIDATION FORM

CONTINUATION SHEET(S)

Address only substantial changes or substantial new information since approval of the original document and only those areas that are applicable. Use the list below as section headings as they apply to the project change(s). Use as much or as little space as needed to adequately address the project change(s) and the associated impacts, minimization, avoidance and/or mitigation measures, if any.

Changes in project design, e.g., substantial scope change; a new alternative; change in project alignment

Staging and storage is no longer permitted at any locations on the shoulder of westbound (north-side) of SR-98.

Changes in environmental setting, e.g., new development affecting traffic or air quality;

There are no changes to the environmental setting of the proposed project.

Changes in environmental circumstances, e.g., a new law or regulation; change in the status of a listed species.

There are no changes in the environmental circumstances of the proposed project.

Changes to environmental impacts of the project, e.g., a new type of impact, or a change in the magnitude of an existing impact.

No additional impacts are associated with change in approved staging areas.

Changes to avoidance, minimization, and/or mitigation measures since the environmental document was approved.

N/A

Changes to environmental commitments since the environmental document was approved, e.g., the addition of new conditions in permits or approvals. When this applies, append a revised Environmental Commitments Record (ECR) as one of the Continuation Sheets.

- Staging and storage is not permitted on the westbound shoulder (north-side) of SR-98, due to the potential for burrowing owls. This includes the proposed staging areas located at postmiles 40.03 - 40.06, and 44.89 - 44.90

An updated ECR is attached.

CATEGORICAL EXEMPTION/ CATEGORICAL EXCLUSION DETERMINATION FORM

11-IMP-98

34.1-45.5

40750K

PI: 1100020403

Dist.-Co.-Rte.

P.M

E.A.

Project ID:

PROJECT DESCRIPTION:

In Imperial County, on State Route 98 from postmile 34.1-45.5, Caltrans proposes a pavement rehabilitation project. Work includes: cold planing and resurfacing existing pavement at various locations, AC overlay over the entire postmile limits. Shoulder backing will be placed at various locations. Existing dike and guardrail will be removed and replaced. All work is within the State right of way. District 11, Environmental Division must be informed of any changes to the project. Please see the continuation sheet for more information.

CEQA COMPLIANCE (for State Projects only)

Based on an examination of this proposal, supporting information, and the following statements (See 14 CCR 15300 et seq.):

- If this project falls within exempt class 3, 4, 5, 6 or 11, it does not impact an environmental resource of hazardous or critical concern where designated, precisely mapped and officially adopted pursuant to law.
• There will not be a significant cumulative effect by this project and successive projects of the same type in the same place, over time.
• There is not a reasonable possibility that the project will have a significant effect on the environment due to unusual circumstances.
• This project does not damage a scenic resource within an officially designated state scenic highway.
• This project is not located on a site included on any list compiled pursuant to Govt. Code § 65962.5 ("Cortese List").
• This project does not cause a substantial adverse change in the significance of a historical resource.

CALTRANS CEQA DETERMINATION (Check one)

Exempt by Statute. (PRC 21080[b]; 14 CCR 15260 et seq.)

Based on an examination of this proposal, supporting information, and the above statements, the project is:

- Categorically Exempt. Class 1. (PRC 21084; 14 CCR 15300 et seq.)
Categorically Exempt. General Rule exemption. [This project does not fall within an exempt class, but it can be seen with certainty that there is no possibility that the activity may have a significant effect on the environment (CCR 15061[b][3])]

David Nagy
Print Name: Environmental Branch Chief

Signature Date 6/7/11

Bruce Lambert
Print Name: Project Manager/DLA Engineer

Signature Date 6/7/11

NEPA COMPLIANCE

In accordance with 23 CFR 771.117, and based on an examination of this proposal and supporting information, the State has determined that this project:

- does not individually or cumulatively have a significant impact on the environment as defined by NEPA and is excluded from the requirements to prepare an Environmental Assessment (EA) or Environmental Impact Statement (EIS), and
• has considered unusual circumstances pursuant to 23 CFR 771.117(b)
(http://www.fhwa.dot.gov/hep/23cfr771.htm - sec.771.117).

In non-attainment or maintenance areas for Federal air quality standards, the project is either exempt from all conformity requirements, or conformity analysis has been completed pursuant to 42 USC 7506(c) and 40 CFR 93.

CALTRANS NEPA DETERMINATION (Check one)

Section 6004: The State has been assigned, and hereby certifies that it has carried out, the responsibility to make this determination pursuant to Chapter 3 of Title 23, United States Code, Section 326 and a Memorandum of Understanding (MOU) dated June 7, 2010, executed between the FHWA and the State. The State has determined that the project is a Categorical Exclusion under:

- 23 CFR 771.117(c): activity (c)
• 23 CFR 771.117(d): activity (d)
• Activity listed in the MOU between FHWA and the State

Section 6005: Based on an examination of this proposal and supporting information, the State has determined that the project is a CE under Section 6005 of 23 U.S.C. 327.

David Nagy
Print Name: Environmental Branch Chief

Signature Date 6/7/11

Bruce Lambert
Print Name: Project Manager/DLA Engineer

Signature Date 6/7/11

Briefly list environmental commitments on continuation sheet. Reference additional information, as appropriate (e.g., air quality studies, documentation of conformity exemption, FHWA conformity determination if Section 6005 project; §106 commitments; §4(f); §7 results; Wetlands Finding; Floodplain Finding; additional studies; and design conditions). Revised June 7, 2010

CATEGORICAL EXEMPTION/CATEGORICAL EXCLUSION DETERMINATION FORM
Continuation Sheet

11-IMP-98

34.1-45.5

40750K

PI: 1100020403

Dist.-Co.-Rte.

P.M

E.A.

Project ID:

- A Storm Water Data Report must be prepared.
- No work is authorized outside of the existing shoulder backing. Areas outside of the project footprint are considered ESA.
- Minor amounts of groundcover may be trimmed for the metal beam guardrail and dike replacements.
- No work is authorized in the drainages.
- Any debris or runoff generated as a result of the work, shall be directed away from drainages to prevent deposition into the waterways.
- Approved staging areas are located at postmiles: 34.32 to 34.40, 42.93 to PM 43.00, 44.83 to PM 44.90. The staging area located at postmiles 40.95 to PM 41.05 is not approved for usage.
- Staging may occur only in approved areas devoid of vegetation, construction materials and debris must be kept out of all canals in the area.
- Follow SSP 15-027 for soil to be kept on site.
- Follow SSP 14-001 for the removal of yellow paint stripe or yellow pavement marking removed without asphalt. Paint must be contained and collected immediately so that it is not emitted into ambient air. It must be properly disposed of at a class 1 landfill facility.
- Treated Wood Waste (TWW) must not be relinquished to the contractor. It must be reused on the job or disposed of at a composite lined solid waste landfill facility that's permitted to accept such waste. Management of TWW must follow Title 22 CA Code of Regulations, Division 4.5, chapter 34.
- Follow SSP 14-010 for treated wood waste management.

ENVIRONMENTAL COMMITMENTS RECORD (ECR)

Task and Brief Description	Responsible Branch / Staff	Timing / Phase	NSSP	Action Taken to Comply with Task	Task Completed		Environmental Compliance	
					Initial	Date	Initial	Date
DESIGN KICK-OFF	Project Manager	Beginning of 1 Phase						
PRE-LOG-IN REVIEW	Design	90% Plans						
ENVIRONMENTAL PS&E REVIEW	Environmental Coordinator	District PS&E Circulation						
IN-HOUSE PRECONSTRUCTION MEETING	Project Manager	Contract Award						
TRANSFER RESIDENT ENGINEER BOOK	Project Engineer (RE)	Preconst Meeting						
PREJOB MEETING WITH CONTRACTOR	Construction	Beginning of Construction						
ENVIRONMENTAL COMPLIANCE REVIEW	Construction	Safety Review						
DESIGN FEATURES MEMORANDUM	Construction / Design	Post Construction						
NPDES								
A Storm Water Data Report must be prepared.	NPDES / Design	Pre-Construction						
BIOLOGY								
No work is authorized outside of the existing shoulder backing. Areas outside of the project footprint are considered ESA.	RE / Branch B/ Construction	Pre-Construction / Construction						
Minor amounts of groundcover may be trimmed for the metal beam guardrail and dike replacements.	RE / Branch B/ Construction	Pre-Construction / Construction						
No work is authorized in the drainages.	RE / Branch B/ Construction	Pre-Construction / Construction						
Any debris or runoff generated as a result of the work, shall be directed away from drainages to prevent deposition into the waterways.	RE / Branch B/ Construction	Pre-Construction / Construction						
Staging and storage is not permitted on the westbound shoulder (north-side) of SR-98, due to the potential for burrowing owls. This includes the proposed staging areas located at postmiles 40.03 - 40.06, and 44.8 9 - 44.90	RE / Branch B/ Construction	Pre-Construction / Construction						
Staging may occur only in approved areas devoid of vegetation.	RE / Branch B/ Construction	Pre-Construction / Construction						
HAZARDOUS WASTE								
Follow SSP 15-027 for soil to be kept on site.	RE / Branch B/ Construction	Pre-Construction / Construction						
Follow SSP 14-001 for the removal of yellow paint stripe or yellow pavement marking removed without asphalt. Paint must be contained and collected immediately so that it is not emitted into ambient air. It must be properly disposed of at a class 1 landfill facility.	RE / Branch B/ Construction	Pre-Construction / Construction						

6/29/2011
 Environmental Coordinator:
 Katie Basinski
 Phone: 619-688-6997

ENVIRONMENTAL COMMITMENTS RECORD (ECR)

11-IMP-98
 PM: 34.1-45.5
 PI: 1100020403 EA: 40750K
 Pavement Rehab

Task and Brief Description	Responsible Branch / Staff	Timing / Phase	NSSP	Action Taken to Comply with Task	Task Completed		Environmental Compliance	
					Initial	Date	Initial	Date
Treated Wood Waste (TWW) must not be relinquished to the contractor. It must be reused on the job or disposed of at a composite lined solid waste landfill facility that's permitted to accept such waste. Management of TWW must follow Title 22 CA Code of Regulations, Division 4.5, chapter 34. Follow SSP 14-010 for treated wood waste management.	RE / Branch B/ Construction	Pre-Construction / Construction						
		Pre-Construction / Construction						

Memorandum

To: **Katie Basinski**
Environmental Planner
Environmental Analysis

Date: April 20, 2011
File: 11-IMP-93
PM: 34.1-45.5
EA: 40750K

From: **Diane Vermeulen**
Environmental Engineering

Subject: Hazardous Materials Review, Route 98, Imperial County, California, Pavement Rehabilitation

A review of the potential for hazardous materials for the above referenced pavement rehabilitation project including guard rail and dike removal and replacement. The areas of concern will be ADL, Treated Wood Waste (TWW) from the metal beam guard rail replacement and lead chromate from the paint stripe removal.

Traffic volumes in the area have been generally low and we don't anticipate any concerns due to ADL. The use of SSP 07-330 can be used as long as no soil will leave the project site. If soil needs to be released to the contractor an ADL study will need to be done.

If yellow paint stripe or yellow pavement marking is removed without asphalt, it shall be removed in accordance with Special Provision (SSP) 14-001. Hazardous concentrations of lead chromate may be present in the paint material. According to SSP 14-001, the paint must be contained and collected immediately so that it is not emitted into ambient air, and properly disposed at a Class I Landfill facility. If the paint will be removed along with the asphalt during the grinding activities SSP 15-305 shall be used. A Lead Compliance Plan shall be prepared for either of the above activities. The Lead Compliance Plan shall describe proper handling methods of the paint material and shall provide information regarding limiting worker and public exposure to lead.

Treated wood waste (TWW) is wood that has been treated with a chemical preservative, such as the wood posts from the guardrails and signs to be removed. The TWW must not be relinquished to the contractor. It must be reused on the job or disposed of at a composite-lined solid waste landfill facility that's permitted to accept such waste. Management of treated wood waste needs to follow Title 22 CA Code of Regulations, Division 4.5, Chapter 34. The Treated Wood Waste SSP 14-010 will need to be used.

If you have any questions or comments, contact me at (619) 688-3148.



Diane Vermeulen, PE
Environmental Engineering
Hazardous Waste Division

cc: Jayne Dowda

PRELIMINARY
FOR STUDY ONLY

RD

1841 1842 1843 1844 1845 1846 1847 1848 1849 1850

Possible Staging/Work Area = 10,000 Sq FT

BOWKER

P.M. 34.43
BR 58-260

CANAL



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
DISTRICT 11
OFFICE OF
ADVANCED PLANNING

SR-98
PM 34.0 TO PM 45.0
FOR PRELIMINARY STUDY ONLY

NO SCALE

CALCULATED-
DESIGNED BY

O. Bendeck

RELATIVE BORDER SCALE
IS IN INCHES

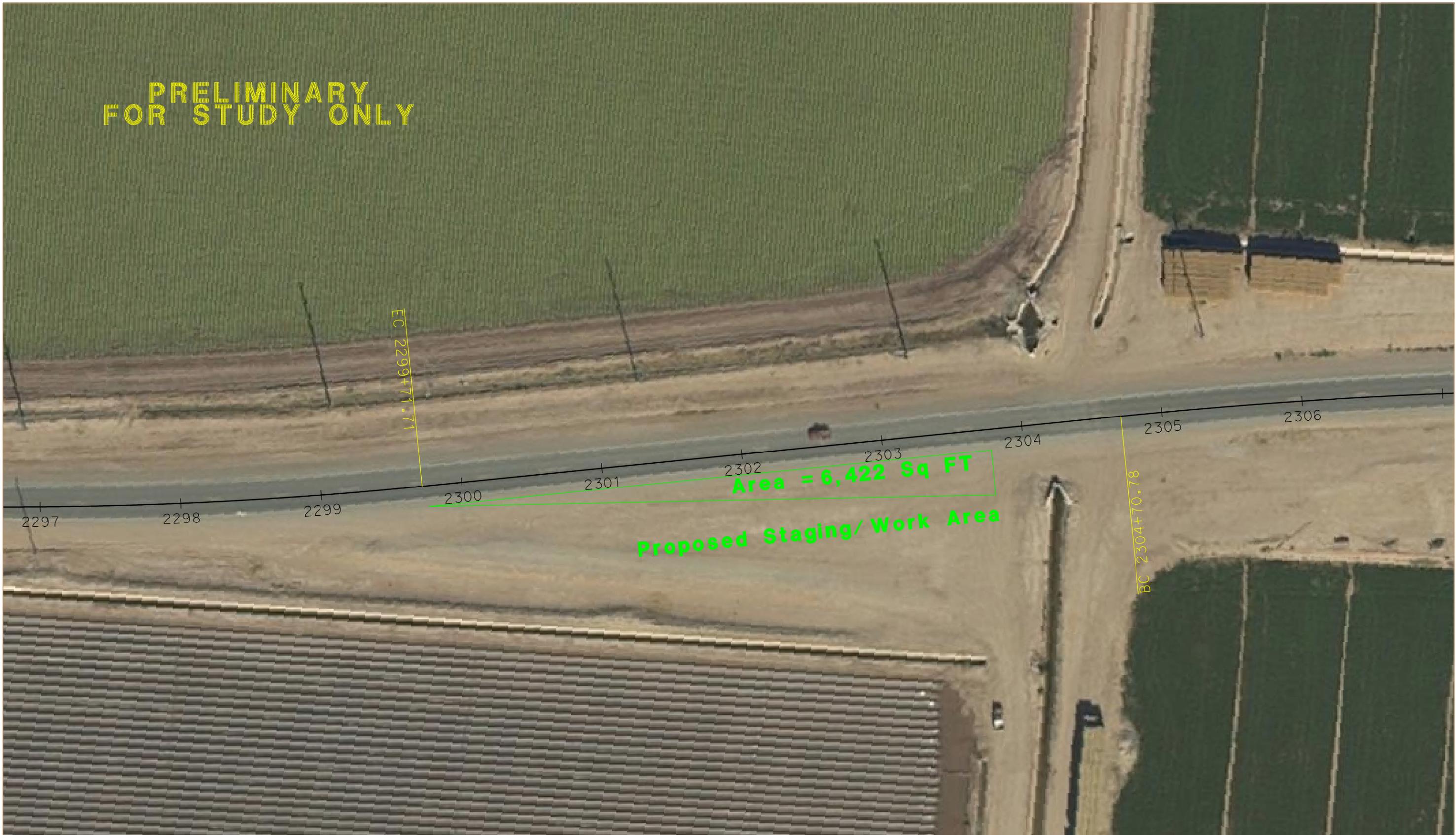


USERNAME => s129103
DGN FILE => IMP98_stage_01.dgn
DATE PLOTTED => 15:48 12-JUL-2011

EXHIBIT 7
SHEET 1 OF 2

ALL DIMENSIONS ARE IN FEET
UNLESS OTHERWISE SHOWN

PRELIMINARY
FOR STUDY ONLY



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
DISTRICT 11
OFFICE OF
ADVANCED PLANNING

SR-98
PM 34.0 TO PM 45.0
FOR PRELIMINARY STUDY ONLY

NO SCALE

CALCULATED-
DESIGNED BY

O. Bendeck

RELATIVE BORDER SCALE
IS IN INCHES



USERNAME => s129103
DGN FILE => IMP98_stage_02.dgn
DATE PLOTTED => 15:48 12-JUL-2011

EXHIBIT 7
SHEET 2 OF 2

ALL DIMENSIONS ARE IN FEET
UNLESS OTHERWISE SHOWN



Dist-County-Route: 11-IMP-098
 Post Mile Limits: 34.1 - 45.5
 Project Type: Pavement Rehab
 Project ID (or EA): 40750K - 1100020403
 Program Identification: _____
 Phase: PID
 PA/ED
 PS&E

Regional Water Quality Control Board(s): Region 9 San Diego

- | | | |
|---|------------------------------|--|
| 1. Is the project required to consider incorporating Treatment BMPs? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| 2. Does the project disturb 5 or more acres of soil? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| 3. Does the project disturb more than 1 acre of soil and not qualify for the Rainfall Erosivity Waiver? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| 4. Does the project potentially create permanent water quality impacts? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| 5. Does the project require a notification of ADL reuse | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |

If the answer to any of the preceding questions is "Yes", prepare a Long Form - Storm Water Data Report.

Estimate Construction Start Date: May 29, 2014 Construction Completion Date: Dec. 10, 2014
 Separate Dewatering Permit (if yes, permit number) Yes Permit # _____ No
 Erosivity Waiver Yes Date: _____ No

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

Roy Flores 8-3-11
 Roy Flores, Registered Project Engineer/Landscape Architect Date

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

Danielle Zhang 08-03-2011
 Danielle Zhang, District/Regional SW Coordinator or Designee Date

[Stamp Required for PS&E only)



Project Description

This Project proposes to rehabilitate the asphalt concrete (AC) pavement of State Route 98 (SR 98) from 0.3 miles west of the All American Canal Bridge to Holdridge Road in Imperial County; PM 34.1 to 45.5. The Project will consist of cold-planing, an overlay of the entire construction limits from edge of pavement to edge of pavement, and will upgrade existing dike as well as metal beam guardrail (MBGR) throughout. Wheel-chair ramps (4) will be installed at the signal of Cole Rd.

This project will be disturbing approximately 0.38 acres. A Short Form SWDR was prepared after consulting with the NPDES Branch Chief Constantine Kontaxis.

- The direct receiving water bodies for this project are in the Brawley Hydrologic Sub-Area 723.10. The receiving waters are on the 303(d) impaired list and some pollutants have TMDL's.

Pollutants that have TMDL's are as follows:

Name	Pollutant	Source	Size	Status	Comments
<u>Alamo River</u>	Chlorpyrifos	Source Unknown	57 Miles	TMDL Required	
<u>Alamo River</u>	DDT	Source Unknown	57 Miles	TMDL Required	
<u>Alamo River</u>	Dieldrin	Source Unknown	57 Miles	TMDL Required	
<u>Alamo River</u>	PCBs (Polychlorinated biphenyls)	Source Unknown	57 Miles	TMDL Required	
<u>Alamo River</u>	Sedimentation/Siltation	Agricultural Return Flows	57 Miles	Being Addressed by USEPA Approved TMDLs	
<u>Alamo</u>	Selenium	Agricultural Return	57	TMDL	Selenium originates from Upper Basin Portion of



<u>River</u>		Flows	Miles	Required	Colorado River. Elevated fish tissue levels. For 2006, selenium was moved by USEPA from the being addressed list back to the 303(d) list pending completion and USEPA approval of a TMDL.
<u>Alamo River</u>	Toxaphene	Source Unknown	57 Miles	TMDL Required	
<u>Imperial Valley Drains</u>	DDT	Source Unknown	1225 Miles	TMDL Required	The listing for DDT only applies to the Barbara Worth Drain, Peach Drain, and Rice Drain areas of the Imperial Valley drains.
<u>Imperial Valley Drains</u>	Dieldrin	Source Unknown	1225 Miles	TMDL Required	The listing for dieldrin only applies to the Barbara Worth Drain and Fig Drain areas of the Imperial Valley drains.
<u>Imperial Valley Drains</u>	Endosulfan	Source Unknown	1225 Miles	TMDL Required	The listing for endosulfan only applies to the Peach Drain area of the Imperial Valley drains.
<u>Imperial Valley Drains</u>	PCBs (Polychlorinated biphenyls)	Source Unknown	1225 Miles	TMDL Required	The listing for PCBs only applies to the Central Drain area of the Imperial Valley drains, from Meloland Road to the outlet into the Alamo River.
<u>Imperial Valley Drains</u>	Sedimentation/Siltation	Agricultural Return Flows	1225 Miles	Being Addressed by USEPA Approved TMDLs	

<u>Imperial Valley Drains</u>	Selenium	Agricultural Return Flows	1225 Miles	TMDL Required	Selenium originates from Upper Basin Portion of Colorado River. Elevated fish tissue levels.
<u>Imperial Valley Drains</u>	Toxaphene	Source Unknown	1225 Miles	TMDL Required	This listing for toxaphene only applies to the Barbara Worth Drain, Peach Drain, and Rice Drain of the Imperial Valley drains.
<u>New River (Imperial County)</u>	1,2,4-Trimethylbenzene	Industrial Point Sources	66 Miles	TMDL Required	
<u>New River (Imperial County)</u>	1,2,4-Trimethylbenzene	Out-of-state source	66 Miles	TMDL Required	
<u>New River (Imperial County)</u>	Chlordane	Source Unknown	66 Miles	TMDL Required	
<u>New River (Imperial County)</u>	Chloroform	Industrial Point Sources	66 Miles	TMDL Required	
<u>New River (Imperial County)</u>	Chloroform	Out-of-state source	66 Miles	TMDL Required	
<u>New River (Imperial County)</u>	Chlorpyrifos	Source Unknown	66 Miles	TMDL Required	
<u>New River</u>	Copper	Source Unknown	66	TMDL	This listing was made by

<u>(Imperial County)</u>			Miles	Required	USEPA for 2006.
<u>New River (Imperial County)</u>	DDT	Source Unknown	66 Miles	TMDL Required	
<u>New River (Imperial County)</u>	Diazinon	Source Unknown	66 Miles	TMDL Required	
<u>New River (Imperial County)</u>	Dieldrin	Source Unknown	66 Miles	TMDL Required	
<u>New River (Imperial County)</u>	Mercury	Source Unknown	66 Miles	TMDL Required	
<u>New River (Imperial County)</u>	meta-para xylenes	Industrial Point Sources	66 Miles	TMDL Required	
<u>New River (Imperial County)</u>	meta-para xylenes	Out-of-state source	66 Miles	TMDL Required	
<u>New River (Imperial County)</u>	Nutrients	Agricultural Return Flows	66 Miles	TMDL Required	Regional Board proposes to establish TMDL in cooperation with U.S. EPA and Mexico.
<u>New River (Imperial County)</u>	Nutrients	Major Municipal Point Source-dry and/or wet weather discharge	66 Miles	TMDL Required	Regional Board proposes to establish TMDL in cooperation with U.S. EPA and Mexico.

<u>New River (Imperial County)</u>	Nutrients	Out-of-state source	66 Miles	TMDL Required	Regional Board proposes to establish TMDL in cooperation with U.S. EPA and Mexico.
<u>New River (Imperial County)</u>	Organic Enrichment/Low Dissolved Oxygen	Inappropriate Waste Disposal/Wildcat Dumping	66 Miles	TMDL Required	
<u>New River (Imperial County)</u>	Organic Enrichment/Low Dissolved Oxygen	Out-of-state source	66 Miles	TMDL Required	
<u>New River (Imperial County)</u>	Organic Enrichment/Low Dissolved Oxygen	Unknown point source	66 Miles	TMDL Required	
<u>New River (Imperial County)</u>	Organic Enrichment/Low Dissolved Oxygen	Wastewater	66 Miles	TMDL Required	
<u>New River (Imperial County)</u>	o-Xylenes	Industrial Point Sources	66 Miles	TMDL Required	
<u>New River (Imperial County)</u>	o-Xylenes	Out-of-state source	66 Miles	TMDL Required	
<u>New River (Imperial County)</u>	Pathogens	Confined Animal Feeding Operations (NPS)	66 Miles	Being Addressed by USEPA Approved TMDLs	
<u>New River (Imperial County)</u>	Pathogens	Municipal Point Sources	66 Miles	Being Addressed by USEPA	

County)				Approved TMDLs	
<u>New River (Imperial County)</u>	Pathogens	Out-of-state source	66 Miles	Being Addressed by USEPA Approved TMDLs	
<u>New River (Imperial County)</u>	Pathogens	Point Source	66 Miles	Being Addressed by USEPA Approved TMDLs	
<u>New River (Imperial County)</u>	Pathogens	Wastewater	66 Miles	Being Addressed by USEPA Approved TMDLs	
<u>New River (Imperial County)</u>	PCBs (Polychlorinated biphenyls)	Source Unknown	66 Miles	TMDL Required	
<u>New River (Imperial County)</u>	p-Cymene	Industrial Point Sources	66 Miles	TMDL Required	
<u>New River (Imperial County)</u>	p-Cymene	Out-of-state source	66 Miles	TMDL Required	
<u>New River (Imperial County)</u>	p-Dichlorobenzene/DCB	Industrial Point Sources	66 Miles	TMDL Required	
<u>New River (Imperial</u>	p-Dichlorobenzene/DCB	Out-of-state source	66 Miles	TMDL Required	

<u>County)</u>					
<u>New River (Imperial County)</u>	Pesticides	Agricultural Return Flows	66 Miles	TMDL Required	
<u>New River (Imperial County)</u>	Pesticides	Out-of-state source	66 Miles	TMDL Required	
<u>New River (Imperial County)</u>	Sedimentation/Siltation	Agricultural Return Flows	66 Miles	Being Addressed by USEPA Approved TMDLs	
<u>New River (Imperial County)</u>	Selenium	Source Unknown	66 Miles	TMDL Required	
<u>New River (Imperial County)</u>	Toluene	Industrial Point Sources	66 Miles	TMDL Required	
<u>New River (Imperial County)</u>	Toluene	Out-of-state source	66 Miles	TMDL Required	
<u>New River (Imperial County)</u>	Toxaphene	Source Unknown	66 Miles	TMDL Required	
<u>New River (Imperial County)</u>	Toxicity	Source Unknown	66 Miles	TMDL Required	

<u>New River (Imperial County)</u>	Trash	Out-of-state source	66 Miles	Being Addressed by USEPA Approved TMDLs	
<u>Salton Sea</u>	Nutrients	Agricultural Return Flows	233340 Acres	TMDL Required	
<u>Salton Sea</u>	Nutrients	Major Industrial Point Source	233340 Acres	TMDL Required	
<u>Salton Sea</u>	Nutrients	Out-of-state source	233340 Acres	TMDL Required	
<u>Salton Sea</u>	Salinity	Agricultural Return Flows	233340 Acres	TMDL Required	TMDL development will not be effective in addressing this problem, which will require an engineering solution with federal, local, and state cooperation.
<u>Salton Sea</u>	Salinity	Out-of-state source	233340 Acres	TMDL Required	TMDL development will not be effective in addressing this problem, which will require an engineering solution with federal, local, and state cooperation.
<u>Salton Sea</u>	Salinity	Point Source	233340 Acres	TMDL Required	TMDL development will not be effective in addressing this problem, which will require an engineering solution with federal, local, and state cooperation.
<u>Salton Sea</u>	Selenium	Agricultural Return Flows	233340 Acres	TMDL Required	

Construction Site BMPs

Concurrence from Construction regarding the Construction Site BMP strategy and quantity will be obtained during PS&E phase. The project includes a Staged Construction Area that measures .61 acres and will consider the following Construction Site BMP's.

The following Construction Site BMP's will be incorporated in the contract as part of the lump sum item, "Construction Site Management", and will be addressed in the Contractors WPCP.

- NS-1 Water Conservation Practices
- NS-3 Paving and Grading Operations
- NS-6 Illicit Connection/Illegal Discharge Detection and Reporting
- NS-8 Vehicle Equipment Cleaning
- NS-9 Vehicle Equipment Fueling
- NS-10 Vehicle Equipment Maintenance
- NS-12 Concrete Curing

Waste Management Materials Pollution

- WM-1 Materials Delivery and Storage
- WM-2 Material Use
- WM-4 Spill Prevention and Control
- WM-5 Solid Waste Management
- WM-6 Hazardous Waste Management
- WM-8 Concrete Waste Management
- WM-9 Sanitary/Septic Waste Management

WM-10 Liquid Waste Management

3. Required Attachments¹

- Vicinity Map
- Evaluation Documentation Form
- Construction Site BMP Consideration Form (required at PS&E only)

¹ Additional attachments may be required as applicable or directed by the District/Regional Design Storm Water Coordinator (e.g. BMP line item estimate, DPP, CS checklists, etc).

Evaluation Documentation Form

DATE: 6/23/2011

Project ID (or EA): 40750K

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?		X	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.	X		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. <i>[Signature]</i> (Dist./Reg. SW Coordinator initials) If No, continue to 4.
4.	Is the project located within an area of a local MS4 Permittee?	X		If Yes. (MSA 733.20), go to 5. If No, document in SWDR go to 5.
5.	Is the project directly or indirectly discharging to surface waters?		X	If Yes, continue to 6. If No, go to 10.
6.	Is it a new facility or major reconstruction?		X	If Yes, continue to 8. If No, go to 7.
7.	Will there be a change in line/grade or hydraulic capacity?		X	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 new impervious surface?</u>		X	If Yes, continue to 9. If No, go to 10. _____ (Net Increase New Impervious Surface)
9.	Project is required to consider approved Treatment BMPs.	X		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. <i>[Signature]</i> (Dist./Reg. Design SW Coord. Initials) <i>[Signature]</i> (Project Engineer Initials) <u>8-2-11</u> (Date)			Document for Project Files by completing this form, and attaching it to the SWDR.

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



M E M O R A N D U M

To: Bruce Lambert, Project Manager
 Attn: Frank Contreras, Project Engineer
 From: DEPARTMENT OF TRANSPORTATION - District 11 Right of Way

Date: June 6, 2011
 File: 11-IMP-98
 P.M.: 34.1 - 45.5
 E.A.: 40750K
 Project ID: 1100020403

Subject: RIGHT OF WAY DATA – In Imperial County from 0.3 mile west of the All American Canal bridge to Holbridge Road pavement rehabilitation.

Programmed Amount: \$ -0-

1. R/W Cost Estimate:

	Value Future Use	Escalation Rate	Escalated Value
A) Acquisition, including Excess Land, Damages, Goodwill, Mitigation & Railroad	\$ 1,000	0 %	\$ 1,000
B) Utility Relocation (State Share) + Potholing (Design Phase)	\$ 0	0 %	\$ 0
C) RAP and/or Last Resort Housing	\$ 0	0 %	\$ 0
D) Clearance & Demolition	\$ 0	0 %	\$ 0
E) Title and Escrow Costs	\$ 0	0 %	\$ 0
Total R/W Estimate	\$ 1,000	Escalated	\$ 1,000

(Excluding Item #8 -Hazardous Waste)

Condemnation Factor	0 %	Number of Years to Certification	1
Design Appreciation Factor	0 %		

(Above two factors included in Acq. Escalation Rate)

2. Parcel Data:

Type	Du. App	G/W App	Utilities	Railroad Involvements
X			U4-1	None X
A			U4-2	C & M Agreements
B			U4-3	Service Contracts
C			U4-4	Lic/Re/Clauses
D			U5-7	Misc R/W Work
			U5-8	Rap Displacements
			U5-9	Clearance/Demolitions
				Construction Permits
Total	0	Excess Parcels	0	

Areas: R/W Fee: _____ Excess: _____
 R/W Easements: _____

Entered PMCS	1.	EVENT RW SCREEN (All Data)	/ /
	2.	AGRE SCREEN (Railroad Data Only)	/ /

REMARKS: Amount under section A reflects the environmental permit fees.

3. Are there major items of construction contract work?
Yes _____ No X Not determined at this time _____ (If yes, explain.)
4. Provide a general description of the right of way and excess lands required (zoning, use, major improvements, critical or sensitive parcels, goodwill, etc.).
5. Is there an effect on assessed valuation?
Yes _____ No X (If yes, explain.)
6. Are utility facilities or rights of way affected?
Yes _____ No X Not determined at this time _____ (If yes, explain.)
7. Are railroad facilities or rights of way affected?
Yes _____ No X (If yes, explain.)

Name(s) of railroad(s):

When branch lines or spurs are affected, would acquisition and/or payment of damages to businesses and/or industries served by the railroad facilities be more cost effective than construction of a facility to perpetuate the rail service? (See Procedural Handbook Vol. 4a, Chap. 440 for detail.)
Yes _____ No _____ (If yes, explain.)
8. Were any previously unidentified sites with hazardous wastes and/or material found?
Yes _____ * None Evident X (* If yes, attach memorandum per RWPH Vol. 1, Sec. 101.026).
9. Are RAP displacements required?
Yes _____ No X (If yes, provide the following information.)

Number of single-family _____ Number of business/nonprofit _____
Number of multi-family _____ Number of farm _____

Based on Relocation Impact Statement/Study dated, it is anticipated that sufficient housing will be available without Last Resort Housing.
10. Are there any material borrow and/or disposal sites required?
Yes _____ No X Not determined at this time _____ (If yes, explain.)
11. Are there any potential relinquishments and/or abandonment's?
Yes _____ No X (If yes, explain.)
12. Are there any existing and/or potential Airspace sites?
Yes _____ No X (If yes, explain.) **All state property has the potential for airspace involvement.**
13. Indicate the anticipated Right of Way schedule and lead time requirements. (Discuss if District proposes less than formula lead time and/or if significant pressures for project advancement are anticipated.)
PYPSCAN lead time _____ Minimum Right of Way lead time requested from receipt of final maps to certification _____ [] See attached.
14. Is it anticipated that all Right of Way work would be performed by Caltrans staff?
Yes X No _____ (If no, explain.)

File: 11-IMP-98
P.M.: 34.1 - 45.5
E.A.: 40750K
Project ID: 1100020403

ASSUMPTIONS & LIMITING CONDITIONS

- [] The mapping did not provide sufficient detail to determine the limits of the right of way required.
- [] 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.
- [] Additional right of way requirements are anticipated, but are not defined due to preliminary nature of early design requirements.
- [] See attached

The determination as to railroad involvement for this project is valid only for the route(s) and post mile(s) referenced above. Any change to the post mile limits shown above, any addition/deletion of a route(s) to/from the project, and/or any change in the proposed project construction will necessitate a new railroad evaluation and a new R/W Data Sheet. Such changes shall be considered a "project revision" and the project will not receive a R/W Certification until the District Railroad Coordinator determines whether the revised project has railroad involvement and a new R/W Data Sheet is prepared.

Evaluations prepared by:

1. Utilities Signature	<u>Synda Sutter</u> Synda Sutter	Date	<u>6/6/11</u>
2. Railroad Signature	<u>Brian Finkbeiner</u> Brian Finkbeiner	Date	<u>6/6/11</u>
4. Proj.Coord. Signature	<u>Lane Hollerbach</u> Lane Hollerbach	Date	<u>6/6/11</u>

I have personally reviewed the R/W Data Sheet and 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 complete and current.

JANET SCHAFFER
Deputy District Director
Right of Way Division

By: Amy Lamott-Vargas

AMY LAMOTT-VARGAS, CHIEF
Project Coordination & Estimating/
Local Programs/Demo & Clearance Branch
Right of Way Division

TRANSPORTATION MANAGEMENT PLAN DATA SHEET

(Preliminary TMP Elements and Costs)

Co/Rte/PM or (KP) IMP/98/34.1-45.5 PI 11 00020403
 EA 40750K Alternative No. _____
 Project Limit In Imperial County in and near Calexico from 0.4 mile west of Bowker Road to Holdridge Road.
 Project Description Pavement Rehabilitation.

1) Public Information

- a. Brochures and Mailers \$ _____
- b. Press Release _____
- c. Paid Advertising \$ _____
- d. Public Information Center/Kiosk \$ _____
- e. Public Meeting/Speakers Bureau _____
- f. Telephone Hotline _____
- g. Internet _____
- h. Others Construction Bulletins \$ _____
Support Costs

2) Motorists Information Strategies

- a. Changeable Message Signs (Fixed) \$ _____
- b. Changeable Message Signs (Portable) \$20,000 _____
- c. Ground Mounted Signs \$ _____
- d. Highway Advisory Radio \$ _____
- e. Caltrans Highway Information Network (CHIN) _____
- f. Others _____ \$ _____

3) Incident Management

- a. Construction Zone Enhanced Enforcement Program (COZEEP) \$52,000 _____
- b. Freeway Service Patrol \$ _____
- c. Traffic Management Team _____
- d. Helicopter Surveillance \$ _____
- e. Traffic Surveillance Stations (Loop Detector and CCTV) \$ _____
- f. Others _____ \$ _____

4) Construction Strategies

<input checked="" type="checkbox"/>	a. Lane Closure Chart	
<input checked="" type="checkbox"/>	b. Reversible Lanes	
<input type="checkbox"/>	c. Total Facility Closure	
<input type="checkbox"/>	d. Contra Flow	
<input type="checkbox"/>	e. Truck Traffic Restrictions	\$ _____
<input type="checkbox"/>	f. Reduced Speed Zone	\$ _____
<input type="checkbox"/>	g. Connector and Ramp Closures	
<input type="checkbox"/>	h. Incentive and Disincentive	\$ _____
<input type="checkbox"/>	i. Moveable Barrier	\$ _____
<input type="checkbox"/>	j. Others _____	\$ _____

5) Demand Management

<input type="checkbox"/>	a. HOV Lanes/Ramps (New or Convert)	\$ _____
<input type="checkbox"/>	b. Park and Ride Lots	\$ _____
<input type="checkbox"/>	c. Rideshare Incentives	\$ _____
<input type="checkbox"/>	d. Variable Work Hours	
<input type="checkbox"/>	e. Telecommute	
<input type="checkbox"/>	f. Ramp Metering (Temporary Installation)	\$ _____
<input type="checkbox"/>	g. Ramp Metering (Modify Existing)	\$ _____
<input type="checkbox"/>	h. Others _____	\$ _____

6) Alternative Route Strategies

<input type="checkbox"/>	a. Add Capacity to Freeway Connector	\$ _____
<input type="checkbox"/>	b. Street Improvement (widening, traffic signal... etc)	\$ _____
<input type="checkbox"/>	c. Traffic Control Officers	\$ _____
<input type="checkbox"/>	d. Parking Restrictions	
<input type="checkbox"/>	e. Others _____	\$ _____

7) Other Strategies

<input type="checkbox"/>	a. Application of New Technology	\$ _____
<input type="checkbox"/>	e. Others _____	\$ _____

TOTAL ESTIMATED COST OF TMP ELEMENTS = \$72,000

Project Notes:

Assumptions/ Comments:

1. Entire project will take approximately 60 working days to construct.
2. Current dollar values used. Inflation was not factored into the estimate.
3. Traffic Control/Maintain Traffic costs were not provided. Please consult with the OE or Construction office for this estimate.
4. Portable CMS specified for this project by this estimate are designated for congestion relief as outlined by DD-60. Portable CMS required for other purposes should be included under other specifications. Four portable CMS are assumed for this TMP.
5. The COZEEP specified for this project by this estimate is designated for congestion relief as outlined by DD-60. The COZEEP required for other purposes should be included under other specifications.

Note 1: All projects who's contract value is \$5 million or more, and/or meet certain other criteria should be evaluated for applicability of A+B Bidding. Consult the Lane Closure Charts Coordinator for the analysis, and the OE for more details about A+B Bidding.

Note 2: As outlined in Deputy Directive 60, this TMP is a living document, subject to change as required by changing circumstances. If there is material change to the project scope which will affect the function or adequacy of the TMP, then changes to the TMP must be addressed. If traffic conditions at the project site demonstrate that TMP elements need to be adjusted to adequately address congestion, then the TMP shall be altered accordingly.

Note 3: Hospitals with emergency services and fire stations that may require access through work zones at all hours should be accommodated. Schools, major venues, shopping malls, and other heavily utilized areas should also be notified of construction activities that may impact their services.

PREPARED BY

Ali Pirahanchi
(858) 467-2021

DATE 6/2/11

APPROVED BY

Foroud Khadem

DATE 6/2/11

Life Cycle Cost Analysis Form

Alternative 1 (Preferred Alternative)

The project will place an AC overlay on State Route 98 (SR-98) from PM 34.1-45.5 from edge of pavement to edge of pavement. This alternative proposes to use Rubberized Hot Mix Asphalt (RHMA).

Pavement Design Life: <u> 5 </u> Years	
Initial Construction Costs:	\$ <u> 3,191,000 </u>
Initial Project Support Costs:	\$ <u> </u>
Future Maintenance & Rehabilitation Costs:**	\$ <u> 6,450,990 </u>
TOTAL AGENCY COSTS:	<u> \$9,617,420 </u>
USER COSTS:	<u> \$24,570 </u>
TOTAL LIFE-CYCLE COSTS:	<u> \$9,641,990 </u>

Alternative 2:

This Alternative proposes to use Hox Mix Asphalt (HMA).

Pavement Design Life: <u> 5 </u> Years	
Initial Construction Costs:	\$ <u> 3,164,000 </u>
Initial Project Support Costs:	\$ <u> </u>
Future Maintenance & Rehabilitation Costs:**	\$ <u> 6,760,370 </u>
TOTAL AGENCY COSTS:	<u> \$ 9,892,850 </u>
USER COSTS:	<u> \$ 31,520 </u>
TOTAL LIFE-CYCLE COSTS:	<u> \$9,924,370 </u>

Reason that this is not Alternative 1:

This alternative costs slightly more than the preferred alternative. The RHMA alternative was also recommended as a more feasible alternative.

11- PAGE ESTIMATE

11-40750K

Type of Estimate : Capital Preventative Maintenance Project Report
 Program Code : SHOPP
 Project Limits : On the SR-98 0.3 Miles West of All American Canal to Holdridge Road
 Description: From PM 34.1 to 45.5
 Scope : Rubberized Hot Mixed Asphalt Overlay, Replace AC Dike and MBGR
 Alternative :

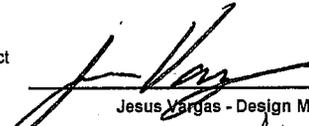
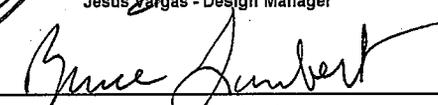
	Current Cost	Escalated Cost
ROADWAY ITEMS	\$ 7,752,300.00	\$ 8,939,297.00
STRUCTURE ITEMS	\$ -	\$ -
SUBTOTAL CONSTRUCTION COST	\$ 7,752,300.00	\$ 8,939,297.00
RIGHT OF WAY	\$ 1,000.00	\$ 1,000.00
TOTAL CAPITAL COST	\$ 7,754,000.00	\$ 8,941,000.00
PR/ED SUPPORT	\$ -	\$ -
PS&E SUPPORT	\$ 650,000.00	\$ 868,800.00
RIGHT OF WAY SUPPORT	\$ 20,000.00	\$ 50,000.00
CONSTRUCTION SUPPORT	\$ 950,000.00	\$ 1,328,200.00
TOTAL SUPPORT COST	\$ 1,620,000.00	\$ 2,247,000.00

TOTAL PROJECT COST	\$ 9,400,000.00	\$ 11,200,000.00
---------------------------	------------------------	-------------------------

Date (Month/Year) of Estimate	month year
Estimated Date (Month/Year) of Construction	6 / 2011
Number of Months of Escalation	5 / 2014
Number of Years of Escalation	35
If Project has been programmed enter Programmed Amount	2.92
Number of Working Days	\$ -
Number of Plant Establishment Days	140

Estimated Project Schedule

PID Approval	07/29/11
PAVED Approval	07/29/11
PS&E	11/19/13
RTL	01/07/14
Begin Construction	05/29/14

Reviewed by District O.E.  8/16/11 (619) 688-3157
 Jesus Vargas - Design Manager Date Phone
 Approved by Project Manager  8/16/11 (619) 688-3288
 Bruce Lambert - Project Manager Date Phone

² Escalation rates used on this estimate for Support Cost are 12% for FY 07/08, 6% for FY 08/09, and 3% for FY 09/10 and each year beyond. Escalation rates used in this estimate for Highway Construction Capital Costs are 5.0% compounded annually to Construction year. These rates are different than the suggested 2006 STIP of 8.3% for fiscal year 05/06 and 3.0% thereafter. The decision in USA 5.0% for this estimate was as per the Office of Office Engineer. (RFV081809)

DISTRICT 11
PRELIMINARY
PROJECT COST ESTIMATE

SECTION 1 EARTHWORK

Item code	Unit	Quantity	Unit Price (\$)	Cost
190101 Roadway Excavation	CY	x	= \$	-
190103 Roadway Excavation (Type Y) ADL	CY	x	= \$	-
190105 Roadway Excavation (Type Z-2) ADL	CY	x	= \$	-
194001 Ditch Excavation	CY	x	= \$	-
198001 Impored Borrow	CY	x	= \$	-
198007 Imported Material (Shoulder Backing)	TON	2,440	x 40.00 = \$	97,600
192037 Structure Excavation (Retaining Wall)	CY	x	= \$	-
193013 Structure Backfill (Retaining Wall)	CY	x	= \$	-
193031 Pervious Backfill Material (Retaining Wall)	CY	x	= \$	-
160101 Clearing & Grubbing	LS	x	= \$	-
170101 Develop Water Supply	LS	1	x 10,000.00 = \$	10,000

TOTAL EARTHWORK SECTION ITEMS	\$ 107,600
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Section 2 STRUCTURAL SECTION

Item code	Unit	Quantity	Unit Price (\$)	Cost
401000 Concrete Pavement	CY	x	= \$	-
404092 Seal Pavement Joint	LF	x	= \$	-
404094 Seal Longitudinal Isolation Joint	LF	x	= \$	-
413115 Seal Existing Concrete Pavement Joint	LF	x	= \$	-
401108 Replace Concrete Pavement (Rapid Strength Concrete)	CY	x	= \$	-
390132 Hot Mix Asphalt (Type A)	TON	2,600	x 110.00 = \$	286,000
390137 Rubberized Hot Mix Asphalt (Gap Graded)	TON	36,000	x 110.00 = \$	3,960,000
393003 Geosynthetic Pavement Interlayer	SQYD	x	= \$	-
260201 Class 2 Aggregate Base	CY	x	= \$	-
290201 Asphalt Treated Permeable Base	CY	x	= \$	-
250401 Class 4 Aggregate Subbase	CY	x	= \$	-
374002 Asphaltic Emulsion (Fog Seal Coat)	TON	x	= \$	-
397005 Tack Coat	TON	70	x 415.00 = \$	29,050
377501 Slurry Seal	TON	x	= \$	-
3750XX Screenings (Type XX)	TON	x	= \$	-
374492 Asphaltic Emulsion (Polymer Modified)	TON	x	= \$	-
365001 Sand Cover	TON	x	= \$	-
731627 Minor Concrete (Curb Ramps)	CY	8	x 700.00 = \$	5,600
731656 Curb Ramp Detectable Warning Surface	SQFT	80	x 70.00 = \$	5,600
394071 Place Hot Mix Asphalt Dike	LF	2,900	x 10.00 = \$	29,000
150771 Remove Asphalt Concrete Dike	LF	2,900	x 3.00 = \$	8,700
420201 Grind Existing Concrete Pavement	SQYD	x	= \$	-
150860 Remove Base and Surfacing	CY	x	= \$	-
390095 Replace Asphalt Concrete Surfacing	CY	210	x 300.00 = \$	63,000
1532XX Remove Concrete (type)	CY	x	= \$	-
394090 Place Hot Mix Asphalt (Misc. Area)	SQYD	x	= \$	-
153103 Cold Plane Asphalt Concrete Pavement	SQYD	25,800	x 4.00 = \$	103,200
39405X Shoulder Rumber Strip (HMA, Type XX Indentation)	STA	x	= \$	-
413112A Repair Spalled Joints (Polyester Grout)	SQYD	x	= \$	-
420102 Groove Existing Concrete Pavement	SQYD	x	= \$	-
390136 Minor Hot Mix Asphalt	TON	170	x 100.00 = \$	17,000

TOTAL STRUCTURAL SECTION ITEMS	\$ 4,507,200
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DISTRICT 11
PRELIMINARY
PROJECT COST ESTIMATE

SECTION 3 DRAINAGE

Item code		Unit	Quantity	Price	Amount
150805	Remove Culvert	LF	x	= \$	-
150820	Modify Inlet	EA	x	= \$	-
193114	Sand Backfill	CY	x	= \$	-
150206	Abandon Culvert	LF	x	= \$	-
152430	Adjust Inlet	LF	x	= \$	-
155003	Cap Inlet	EA	x	= \$	-
510502	Minor Concrete (Minor Structure)	CY	x	= \$	-
510512	Minor Concrete (Box Culvert)	CY	x	= \$	-
62XXXX	XXX" APC Pipe	LF	x	= \$	-
64XXXX	XXX" Plastic Pipe	LF	x	= \$	-
65XXXX	XXX" RCP Pipe	LF	x	= \$	-
66XXXX	XXX" CSP Pipe	LF	x	= \$	-
68XXXX	Edge Drain	LF	x	= \$	-
69XXXX	XXX" Pipe Downdrain	LF	x	= \$	-
70XXXX	XXX" Pipe Inlet	LF	x	= \$	-
70XXXX	XXX" Pipe Riser	LF	x	= \$	-
70XXXX	XXX" Flared End Section	EA	x	= \$	-
703233	Grated Line Drain	LF	x	= \$	-
72XXXX	Rock Slope Protection (Type and Method)	CY	x	= \$	-
729010	Rock Slope Protection Fabric	SQYD	x	= \$	-
721420	Concrete (Ditch Lining)	CY	x	= \$	-
721430	Concrete (Channel Lining)	CY	x	= \$	-
750001	Miscellaneous Iron and Steel	LB	x	= \$	-
XXXXXX	Additional Drainage	LS	x	= \$	-

TOTAL DRAINAGE ITEMS \$ -

SECTION 4 SPECIALTY ITEMS

Item code		Unit	Quantity	Unit Price (\$)	Cost
070012	Progress Schedule (Critical Path Method)	LS	x	= \$	-
518002	Sound Wall (Masonry Block)	SQFT	x	= \$	-
510524	Minor Concrete (Sound Wall)	CY	x	= \$	-
153250	Remove Sound Wall	SQFT	x	= \$	-
190110	Lead Compliance Plan	LS	1	x 5,000.00	= \$ 5,000
1532XX	Remove Barrier (Insert Type)	LF	x	= \$	-
150662	Remove Metal Beam Guard Railing	LF	1,950	x 12.50	= \$ 24,375
150668	Remove Terminal Systems	EA	28	x 251.00	= \$ 7,028
80XXXX	Fence (Insert Type)	LF	x	= \$	-
80XXXX	Gate (Insert Type)	EA	x	= \$	-
832001	Metal Beam Guard Railing	LF	1,950	x 25.00	= \$ 48,750
839301	Single Thrie Beam Barrier	LF	x	= \$	-
839310	Double Thrie Beam Barrier	LF	x	= \$	-
839521	Cable Railing	LF	x	= \$	-
839565	Terminal System (Type SRT)	EA	17	x 3,000.00	= \$ 51,000
8395XX	Alternative Flared Terminal System	EA	x	= \$	-
839584	Alternative In-line Terminal System	EA	3	x 3,000.00	= \$ 9,000
49XXXX	CIDH Concrete Piling (Insert Diameter)	LF	x	= \$	-
839XXX	Crash Cushion (Insert Type)	EA	x	= \$	-
83XXXX	Concrete Barrier (Insert Type)	LF	x	= \$	-
83XXXX	Concrete Barrier (Insert Type)	LF	x	= \$	-
520103	Bar Reinf. Steel (Ret. Wall)	LB	x	= \$	-
510408	Class 1 Concrete (Retaining Wall)	CY	x	= \$	-
510133	Class 2 Concrete (Retaining Wall)	CY	x	= \$	-
510060	Structural Concrete (Retaining Wall)	CY	x	= \$	-
513553	Retaining Wall (Masonry Wall)	CY	x	= \$	-
5110XX	Architectural Treatment (Insert Type)	SQFT	x	= \$	-
511048	Apply Anti-Graffiti Coating	SQFT	x	= \$	-
5136XX	Reinforced Concrete Crib Wall (Insert Type)	SQFT	x	= \$	-
839541	Transition Railing (Type WB)	EA	8	x 2,500.00	= \$ 20,000
597601	Prepare and Stain Concrete	SQFT	x	= \$	-
839561	Rail Tensioning Assembly	EA	x	= \$	-
839568	End Anchor Assembly (Type SFT)	EA	x	= \$	-

TOTAL SPECIALTY ITEMS \$ 165,200

DISTRICT 11
PRELIMINARY
PROJECT COST ESTIMATE

Section 5 ENVIRONMENTAL

5A - ENVIRONMENTAL MITIGATION

Item code		Unit	Quantity		Price		Amount
	Biological Mitigation	LS		x		= \$	-
071325	Temporary Fence (Type ESA)	LF		x		= \$	-
<u>Subtotal Environmental</u>							<u>\$ -</u>

5B - LANDSCAPE AND IRRIGATION

Item code		Unit	Quantity		Price		Amount
200001	Highway Planting	LS		x		= \$	-
208000	Irrigation System	LS		x		= \$	-
204099	Plant Establishment Work	LS		x		= \$	-
204101	Extend Plant Establishment (X Years)	LS		x		= \$	-
201700	Imported Topsoil	CY		x		= \$	-
20XXXX	XXX" (Insert Type) Conduit (Use for Irrigation x-overs)	LF		x		= \$	-
20XXXX	Extend XXX" (Insert Type) Conduit (Use for Extension of Irrigation x-overs)	LF		x		= \$	-
203027	Erosion Control (Bonded Fiber Matrix)	SQFT	16,500	x	0.15	= \$	2,475
203026	Move In/ Move Out (Erosion Control)	EA		x		= \$	-
209801	Maintenance Vehicle Pullout	EA		x		= \$	-
208304	Water Meter	EA		x		= \$	-
203021	Fiber Rolls	LF		x		= \$	-
<u>Subtotal Landscape and Irrigation</u>							<u>\$ 2,475</u>

5C - NPDES

Item code		Unit	Quantity		Price		Amount
074019	Prepare SWPPP	LS		x		= \$	-
074017	Prepare WPCP	LS	1	x	5,000.00	= \$	5,000
074016	Construction Site Management	LS	1	x	20,000.00	= \$	20,000
074023	Temporary Erosion Control	SQYD		x		= \$	-
074027	Temporary Erosion Control Blanket	SQYD		x		= \$	-
074037	Move In/ Move Out (Temporary Erosion Control)	EA		x		= \$	-
074028	Temporary Fiber Roll	LF		x		= \$	-
074042	Temporary Concrete Washout (Portable)	LS		x		= \$	-
074032	Temporary Concrete Washout Facility	EA		x		= \$	-
074033	Temporary Construction Entrance	EA		x		= \$	-
074035	Temporary Check Dam	LF		x		= \$	-
074038	Temp. Drainage Inlet Protection	EA		x		= \$	-
074041	Street Sweeping	LS	1	x	25,000.00	= \$	25,000
Supplemental Work for NPDES							
066595	Water Pollution Control Maintenance Sharing*	LS		x		= \$	-
066596	Additional Water Pollution Control**	LS	1	x	5,000.00	= \$	5,000
066597	Storm Water Sampling and Analysis***	LS		x		= \$	-
<u>Subtotal NPDES (Without Supplemental Work)</u>							<u>\$ 50,000</u>

*Applies to all SWPPPs and those WPCPs with sediment control or soil stabilization BMPs.

**Applies to both SWPPPs and WPCP projects.

*** Applies only to project with SWPPPs.

TOTAL ENVIRONMENTAL	\$ 52,500
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DISTRICT 11
PRELIMINARY
PROJECT COST ESTIMATE

Section 6 TRAFFIC ITEMS

6A - Traffic Electrical

Item code	Unit	Quantity	Unit Price (\$)	Cost
86055X	Lighting & Sign Illumination	LS	x	= \$ -
860XXX	Signals & Lighting	LS	x	= \$ -
86XXXX	Fiber Optic Conduit System	LS	x	= \$ -
8611XX	Ramp Metering System (Location X)	LS	x	= \$ -
8611XX	Ramp Metering System (Location X)	LS	x	= \$ -
8607XX	Interconnection Facilities	LS	x	= \$ -
5602XX	Furnish Sign Structure	LB	x	= \$ -
5602XX	Install Sign Structure	LB	x	= \$ -
56XXXX	XXX" CIDHC Pile (Sign Foundation)	LF	x	= \$ -
860810	Inductive Loop Detectors	EA	3 x 1,000.00	= \$ 3,000
066858	Traffic Count Station Cabinet (Type G)	EA	1 x 6,000.00	= \$ 6,000
150760	Remove Sign Structure	EA	x	= \$ -
151581	Reconstruct Sign Structure	EA	x	= \$ -
152641	Modify Sign Structure	EA	x	= \$ -
860090	Maintain Existing Traffic Management System Elements During Construction	LS	x	= \$ -
<u>Subtotal Traffic Electrical</u>				<u>\$ 9,000</u>

6B - Traffic Signing and Striping

Item code	Unit	Quantity	Unit Price (\$)	Cost
566011	Roadside Sign (One Post)	EA	x	= \$ -
566012	Roadside Sign (Two Post)	EA	x	= \$ -
560XXX	Furnish Sign Panels	SQFT	x	= \$ -
560XXX	Install Sign Panels	SQFT	x	= \$ -
850111	Pavement Markers	EA	51,800 x 2.00	= \$ 103,600
150701	Remove Yellow Painted Traffic Stripe	LF	x	= \$ -
150722	Remove Pavement Marking	EA	51,800 x 0.60	= \$ 31,080
150742	Remove Roadside Sign	EA	x	= \$ -
152320	Reset Roadside Sign	EA	x	= \$ -
840656	Paint Traffic Stripe (2-Coat)	LF	131,000 x 0.15	= \$ 19,650
820107	Delineator (Class 1)	EA	135 x 45.00	= \$ 6,075
84XXXX	Permanent Pavement Delineation	LS	1 x 220,000.00	= \$ 220,000
120090	Construction Area Signs	LS	1 x 25,000.00	= \$ 25,000
<u>Subtotal Traffic Signing and Striping</u>				<u>\$ 405,405</u>

6C - Traffic Management Plan

Item code	Unit	Quantity	Unit Price (\$)	Cost
128650	Portable Changeable Message Signs	EA	4 x 5,000.00	= \$ 20,000
<u>Subtotal Traffic Management Plan</u>				<u>\$ 20,000</u>

6D - Stage Construction and Traffic Handling

Item code	Unit	Quantity	Unit Price (\$)	Cost
129099A	Traffic Plastic Drum	EA	x	= \$ -
12016X	Channelizer	EA	x	= \$ -
120120	Type III Barricade	EA	x	= \$ -
129100	Temp. Crash Cushion Module	EA	x	= \$ -
120100	Traffic Control System	LS	1 x 140,000.00	= \$ 140,000
839603A	Temporary Crash Cushion (ADIEM)	EA	x	= \$ -
129000	Temporary Railing (Type K)	LF	x	= \$ -
120143	Temporary Pavement Delineation	LF	x	= \$ -
<u>Subtotal Stage Construction and Traffic Handling</u>				<u>\$ 140,000</u>

TOTAL TRAFFIC ITEMS \$ 574,500

II. STRUCTURES ITEMS

DATE OF ESTIMATE	00/00/00	00/00/00	00/00/00
Name	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Bridge Number	57-XXX	57-XXX	57-XXX
Structure Type	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Width (Feet) [out to out]	0.00 LF	0.00 LF	0.00 LF
Total Length (Feet)	0.00 LF	0.00 LF	0.00 LF
Total Area (Square Feet)	0.00 SQFT	0.00 SQFT	0.00 SQFT
Structure Depth (Feet)	0.00 LF	0.00 LF	0.00 LF
Footing Type (pile or spread)	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Cost Per Square Foot	\$0.00	\$0.00	\$0.00

COST OF EACH STRUCTURE	\$0.00	\$0.00	\$0.00
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DATE OF ESTIMATE	00/00/00	00/00/00	00/00/00
Name	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Bridge Number	57-XXX	57-XXX	57-XXX
Structure Type	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Width (Feet) [out to out]	0.00 LF	0.00 LF	0.00 LF
Total Length (Feet)	0.00 LF	0.00 LF	0.00 LF
Total Area (Square Feet)	0.00 SQFT	0.00 SQFT	0.00 SQFT
Structure Depth (Feet)	0.00 LF	0.00 LF	0.00 LF
Footing Type (pile or spread)	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Cost Per Square Foot	\$0.00	\$0.00	\$0.00

COST OF EACH STRUCTURE	\$0.00	\$0.00	\$0.00
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TOTAL COST OF BRIDGES	\$0.00
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TOTAL COST OF BUILDINGS	\$0.00
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TOTAL COST OF STRUCTURES¹	\$0.00
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Estimate Prepared By: _____ Not Applicable _____
 XXXXXXXXXXXXXXXXXXXX — Division of Structures _____ Date

¹Structure's Estimate includes Overhead and Mobilization.

DISTRICT 11
PRELIMINARY
PROJECT COST ESTIMATE

III. RIGHT OF WAY

A)	A1) Acquisition, including Excess Lands, Damages & Goodwill, Fees	\$	0
	A2) Environmental Permit Fees	\$	1,000
B)	Acquisition of Offsite Mitigation	\$	0
C)	C1) Utility Relocation (State Share)	\$	0
	C2) Potholing (Design Phase)	\$	0
D)	Railroad Acquisition	\$	0
E)	Clearance / Demolition	\$	0
F)	Relocation Assistance	\$	0
G)	Title and Escrow	\$	0

R/W ESTIMATE	\$1,000.00
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H)	Condemnation Settlements	<u>0%</u>	\$	0
I)	Design Appreciation Factor	<u>0%</u>	\$	0
	(Items G & H applied to items A + B)			

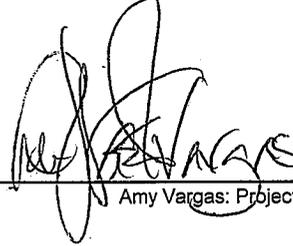
TOTAL R/W ESTIMATE	\$1,000.00
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(Excluding Item #8 - Hazardous Waste)

J)	TOTAL R/W ESTIMATE: Escalated	\$1,000.00
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K)	Utility Relocation (Construction Cost)	\$	0
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RIGHT OF WAY SUPPORT \$ 20,000

Support Cost Estimate Prepared By	 Amy Vargas: Project Coordinator ¹	619-688-6944 Phone
Utility Estimate Prepared By	Amy Vargas: Utility Coordinator ²	619-688-6944 Phone
R/W Acquisition Estimate Prepared By	Joe Quintero: Right of Way Estimator ³	619-688-2572 Phone

¹ When estimate has Support Costs only ² When estimate has Utility Relocation ³ When R/W Acquisition is required

DISTRICT 11
PRELIMINARY
PROJECT COST ESTIMATE

IV: SUPPORT COST ESTIMATE SUMMARY

SB-45 CATEGORY SUPPORT COST	FY 00/01	FY 01/02	FY 02/03	FY 03/04	FY 04/05	FY 05/06	FY 06/07	FY 07/08	FY 08/09	P3 Subtotal
PR/ED (PD,PE,PM)										0
PS&E (PS)										0
R/W (RW)										0
CONSTRUCTION (CM)										0
Total Support Cost:	0	0	0	0	0	0	0	0	0	0

SB-45 CATEGORY SUPPORT COST	FY 09/10	FY 10/11	FY 11/12	FY 12/13	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18	P3 Total	Support Ratio
PR/ED (PD,PE,PM)										0	0
PS&E (PS)			200,000	250,000	200,000					650,000	0.0838277
R/W (RW)			20,000							20,000	0.00257931
CONSTRUCTION (CM)					450,000	500,000				950,000	0.12251741
Total Support Cost:	0	0	220,000	250,000	650,000	500,000	0	0	0	1,620,000	

Total Capital Cost:	\$7,754,000
Overall Percent Support Cost:	21%

Approved by: Erica O'Farrell
Erica O'Farrell: Project Control Engineer

8/10/11
Date

Activity ID	Activity Description	Orig Dur	Rem Dur	%	Early Start	Early Finish	EDIT
1100020403_PAVEMENT REHAB							
QHK10005	PROJ MGMT - PID CMPNT	163	10	5	18JAN11A	24AUG11	
QHK10010	PROJ MGMT - PA&ED CMPNT	164	10	5	18JAN11A	24AUG11	
QHK10015	PROJ MGMT - PS&E CMPNT	622	622	0	01SEP12	15MAY14	
QHK10020	PROJ MGMT - CONST CMPNT	391	391	0	16MAY14	10JUN15	
QHK10025	PROJ MGMT - R/W CMPNT	1,013	1,013	0	01SEP12	10JUN15	
QHK1500505	RVW OF EXTG RPTS STUDIES & MPG	45	0	100	18JAN11A	27FEB11A	
QHK1500515	UTIL SRCH	45	0	100	27JAN11A	27FEB11A	
QHK1500520	ENV CNSTRTS ID	45	0	100	18JAN11A	07APR11A	
QHK1500525	TRAF FRCSTS/MODELING	45	0	100	18JAN11A	26JAN11A	
QHK1501005	PUB/LA INPUT	45	0	100	01APR11A	27JUN11A	
QHK1501015	CONCEPT ALTS DVLMT	30	0	100	01MAR11A	12MAY11A	
QHK1501505	R/W DATA SHEETS	60	0	100	21APR11A	06JUN11A	
QHK1501515	RR INVL T DTRMTN	60	0	100	05APR11A	28JUN11A	
QHK1501520	DPGR	60	0	100	05APR11A	29APR11A	
QHK1501535	MMDL RVW	61	0	100	27JAN11A	29APR11A	
QHK1501545	TRAF CAP ANALY	60	0	100	07MAR11A	29APR11A	
QHK1501550	TRAF STUDIES	45	0	100	21APR11A	02JUN11A	
QHK1501555	CONST ESTS	45	0	100	01MAR11A	16AUG11A	
QHK1502005	INIT NOISE STUDY	60	0	100	01APR11A	27JUN11A	
QHK1502015	SR&LAR	20	0	100	18JAN11A	27JUN11A	
QHK1502025	INIT BIO STUDY	60	0	100	14APR11A	27JUN11A	
QHK1502045	INIT AIR QUAL STUDY	45	0	100	01APR11A	27JUN11A	
QHK1502505	DRAFT PID	16	0	100	16JUN11A	16AUG11A	
QHK1502510	APVD EXPTNS TO DSN STDS	35	0	100	12MAY11A	09AUG11A	
QHK1502520	PID CIRCN RVW & APVL	8	10	0	15AUG11A	24AUG11	
QHK1600505	APVD PID RVW	30	0	100	31JAN11A	16AUG11A	
QHK1601010	TRAF FRCSTS/MODELING	15	0	100	26JAN11A	27FEB11A	
QHK1601045	UTIL LOCNS DTRMND FOR PREL ENGRG	5	0	100	31JAN11A	28JUN11A	
QHK16015	DRAFT PR	30	0	100	25MAY11A	16AUG11A	
QHK16510	GENL ENV STUDIES	20	0	100	14APR11A	29JUN11A	
QHK16515	BIOL STUDIES	30	0	100	14APR11A	29JUN11A	
QHK1652515	CAT EX/CE DTRMTN	2	0	100	14APR11A	28JUN11A	
QHK180	PREP & APV PR & FED	15	0	100	29JUN11A	16AUG11A	
QHK18505	UPDD PROJ INFO	10	10	0	01SEP12	10SEP12	
QHK1851060	ENGRG SRVYS	33	33	0	11SEP12	13OCT12	
QHK18515	PREL DSN	190	190	0	11SEP12	19MAR13	
QHK1852005	UPDD TRAF DATA ANALY & FRCSTS	5	5	0	11SEP12	15SEP12	
QHK1852020	PREL PVNT DSN RPT	5	5	0	11SEP12	15SEP12	
QHK22550	PARCEL & PROJ DOCN	20	20	0	20MAR13	08APR13	
QHK23005	DRAFT RDWY PLANS	135	135	0	20MAR13	01AUG13	
QHK23010	DRAFT HPPS	30	30	0	20MAR13	18APR13	
QHK2301505	SNG & PVNT DELN PLANS	30	30	0	20MAR13	18APR13	
QHK2301510	CONST AREA SIGNS PLANS	30	30	0	20MAR13	18APR13	
QHK2301515	TRAF ELRCL PLANS	10	10	0	20MAR13	29MAR13	
QHK23020	TMP	30	30	0	20MAR13	18APR13	
QHK23030	DRAFT DRNG PLANS	30	30	0	20MAR13	18APR13	
QHK23035	DRAFT SPECS	13	13	0	11OCT13	23OCT13	
QHK23040	DRAFT PS&E Q&E	75	75	0	20MAR13	02JUN13	
QHK23530	HSDD	11	11	0	20MAR13	30MAR13	
QHK25505	CIRCD & RVWD DRAFT DIST PS&E PCKG	11	11	0	24OCT13	03NOV13	

Data Date 15AUG11
Run Date 16AUG11 10:21

PAVEMENT REHAB

EA 40750_

EXHIBIT 13

Activity ID	Activity Description	Orig Dur	Rem Dur	%	Early Start	Early Finish	EDIT
QHK25510	UPDD PS&E PCKG	16	16	0	04NOV13	19NOV13	
QHK25540	RE'S PENDING FILE	16	16	0	04NOV13	19NOV13	
QHK260	CONTR BID DOCS [RTL]	15	15	0	20NOV13	04DEC13	
QHK265	AWDD & APVD CONST CONTR	128	128	0	08JAN14	15MAY14	
QHK27015	CONST STAKES	30	30	0	16MAY14	14JUN14	
QHK27020	CONST ENGRG WRK	190	190	0	29MAY14	04DEC14	
QHK27025	CONST CONTR ADMIN WRK	30	30	0	16MAY14	14JUN14	
QHK27030	CONTR ITEM WRK INSPN	190	190	0	29MAY14	04DEC14	
QHK27035	CONST MTL S&T	30	30	0	16MAY14	14JUN14	
QHK27065	TMP IMPLN DURING CONST	30	30	0	16MAY14	14JUN14	
QHK27520	FIELD ADMIN WRK FOR STRUCS	30	30	0	16MAY14	14JUN14	
QHK285	CCO ADMIN	30	30	0	16MAY14	14JUN14	
QHK290	RSLV CONTR CLAIMS	159	159	0	05DEC14	12MAY15	
QHK29515	AS-BUILT PLANS	60	60	0	05DEC14	02FEB15	
QHK29520	PROJ HISTORY FILE	30	30	0	05DEC14	03JAN15	
QHK29525	FR	30	30	0	05DEC14	03JAN15	
QHK29530	PRCSD FNL EST	30	30	0	13MAY15	11JUN15	
QHK29599	OTR ACPT CONTR/ PREP FE & FR	30	30	0	05DEC14	03JAN15	
QHKM000	ID NEED	0	0	100	18JAN11A		
QHKM010	APPROVE PID	0	0	0		24AUG11	
QHKM015	PROG PROJ	0	0	100	31JAN11A		
QHKM020	BEGIN ENVIRO	0	0	100	31JAN11A		
QHKM040	BEGIN PROJ	0	0	100	31JAN11A		
QHKM200	PA & ED	0	0	0		24AUG11	
QHKM210	BEGIN DESIGN	0	0	0	01SEP12*		
QHKM260	SKELETON LAYOUT	0	0	0		19MAR13	
QHKM299	D11M DISTRICT LOG-IN APPROVED	0	0	0		10OCT13*	
QHKM300	CIRC PLANS IN DIST	0	0	0		01AUG13	
QHKM380	PROJ PS&E	0	0	0		19NOV13	
QHKM410	R/W CERT	0	0	0		08APR13	
QHKM460	RTL	0	0	0		07JAN14	
QHKM480	HQ ADVERT	0	0	0	01MAR14		
QHKM490	BIDS OPEN	0	0	0		03APR14	
QHKM495	AWARD	0	0	0		01MAY14	
QHKM500	APPROVE CONTRACT	0	0	0		15MAY14	
QHKM600	CONTRACT ACCEPT	0	0	0		04DEC14	
QHKM650	PROJECT CLOSEOUT INITIATED	0	0	0	05DEC14		
QHKM700	FINAL REPORT	0	0	0		11JUN15	
QHKM800	END PROJ	0	0	0		11JUN15	

Data Date 15AUG11
Run Date 16AUG11 10:21

PAVEMENT REHAB
EA 40750_

EXHIBIT 13

Activity ID	Activity Description	Orig Dur	Rem Dur	%	Early Start	Early Finish	EDIT
1100020403_PAVEMENT REHAB							
QHK10005	PROJ MGMT - PID CMPNT	163	10	5	18JAN11A	24AUG11	
QHK10010	PROJ MGMT - PA&ED CMPNT	164	10	5	18JAN11A	24AUG11	
QHK10015	PROJ MGMT - PS&E CMPNT	622	622	0	01SEP12	15MAY14	
QHK10020	PROJ MGMT - CONST CMPNT	391	391	0	16MAY14	10JUN15	
QHK10025	PROJ MGMT - RW CMPNT	1,013	1,013	0	01SEP12	10JUN15	
QHK1500505	RWW OF EXTG RPTS STUDIES & MPG	45	0	100	18JAN11A	27FEB11A	
QHK1500515	UTIL SRCH	45	0	100	27JAN11A	27FEB11A	
QHK1500520	ENV CNSTRTS ID	45	0	100	18JAN11A	07APR11A	
QHK1500525	TRAF FRCSTS/MODELING	45	0	100	18JAN11A	26JAN11A	
QHK1501005	PUB/LA INPUT	45	0	100	01APR11A	27JUN11A	
QHK1501015	CONCEPT ALTS DVLMT	30	0	100	01MAR11A	12MAY11A	
QHK1501505	R/W DATA SHEETS	60	0	100	21APR11A	06JUN11A	
QHK1501515	RR INVLT DTRMTN	60	0	100	05APR11A	28JUN11A	
QHK1501520	DPGR	60	0	100	05APR11A	29APR11A	
QHK1501535	MMDL RWW	61	0	100	27JAN11A	29APR11A	
QHK1501545	TRAF CAP ANALY	60	0	100	07MAR11A	29APR11A	
QHK1501550	TRAF STUDIES	45	0	100	21APR11A	02JUN11A	
QHK1501555	CONST ESTS	45	0	100	01MAR11A	16AUG11A	
QHK1502005	INIT NOISE STUDY	60	0	100	01APR11A	27JUN11A	
QHK1502015	SR&LAR	20	0	100	18JAN11A	27JUN11A	
QHK1502025	INIT BIO STUDY	60	0	100	14APR11A	27JUN11A	
QHK1502045	INIT AIR QUAL STUDY	45	0	100	01APR11A	27JUN11A	
QHK1502505	DRAFT PID	16	0	100	16JUN11A	16AUG11A	
QHK1502510	APVD EXPTNS TO DSN STDS	35	0	100	12MAY11A	09AUG11A	
QHK1502520	PID CIRC RW & APVL	8	10	0	15AUG11A	24AUG11	
QHK1600505	APVD PID RWW	30	0	100	31JAN11A	16AUG11A	
QHK1601010	TRAF FRCSTS/MODELING	15	0	100	26JAN11A	27FEB11A	
QHK1601045	UTIL LOCNS DTRMND FOR PREL ENGRG	5	0	100	31JAN11A	28JUN11A	
QHK16015	DRAFT PR	30	0	100	25MAY11A	16AUG11A	
QHK16510	GENL ENV STUDIES	20	0	100	14APR11A	29JUN11A	
QHK16515	BIOL STUDIES	30	0	100	14APR11A	29JUN11A	
QHK1652515	CAT EX/CE DTRMTN	2	0	100	14APR11A	28JUN11A	
QHK180	PREP & APV PR & FED	15	0	100	29JUN11A	16AUG11A	
QHK18505	UPDD PROJ INFO	10	10	0	01SEP12	10SEP12	
QHK1851060	ENGRG SRVYS	33	33	0	11SEP12	13OCT12	
QHK18515	PREL DSN	190	190	0	11SEP12	19MAR13	
QHK1852005	UPDD TRAF DATA ANALY & FRCSTS	5	5	0	11SEP12	15SEP12	
QHK1852020	PREL PVNT DSN RPT	5	5	0	11SEP12	15SEP12	
QHK22550	PARCEL & PROJ DOCN	20	20	0	20MAR13	08APR13	
QHK23005	DRAFT RDWY PLANS	135	135	0	20MAR13	01AUG13	
QHK23010	DRAFT HPPS	30	30	0	20MAR13	18APR13	
QHK2301505	SNG & PVNT DELN PLANS	30	30	0	20MAR13	18APR13	
QHK2301510	CONST AREA SIGNS PLANS	30	30	0	20MAR13	18APR13	
QHK2301515	TRAF ELRCL PLANS	10	10	0	20MAR13	29MAR13	
QHK23020	TMP	30	30	0	20MAR13	18APR13	
QHK23030	DRAFT DRNG PLANS	30	30	0	20MAR13	18APR13	
QHK23035	DRAFT SPECS	13	13	0	11OCT13	23OCT13	
QHK23040	DRAFT PS&E Q&E	75	75	0	20MAR13	02JUN13	
QHK23530	HSDD	11	11	0	20MAR13	30MAR13	
Data Date	15AUG11	PAVEMENT REHAB			EXHIBIT 13		
Run Date	16AUG11 10:37	EA 40750_					
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Activity ID	Activity Description	Orig Dur	Rem Dur	%	Early Start	Early Finish	EDIT
QHK25505	CIRCD & RVWD DRAFT DIST PS&E PCKG	11	11	0	24OCT13	03NOV13	
QHK25510	UPDD PS&E PCKG	16	16	0	04NOV13	19NOV13	
QHK25540	RE'S PENDING FILE	16	16	0	04NOV13	19NOV13	
QHK260	CONTR BID DOCS [RTL]	15	15	0	20NOV13	04DEC13	
QHK265	AWDD & APVD CONST CONTR	128	128	0	08JAN14	15MAY14	
QHK27015	CONST STAKES	30	30	0	16MAY14	14JUN14	
QHK27020	CONST ENGRG WRK	190	190	0	29MAY14	04DEC14	
QHK27025	CONST CONTR ADMIN WRK	30	30	0	16MAY14	14JUN14	
QHK27030	CONTR ITEM WRK INSPN	190	190	0	29MAY14	04DEC14	
QHK27035	CONST MTL S&T	30	30	0	16MAY14	14JUN14	
QHK27065	TMP IMPLN DURING CONST	30	30	0	16MAY14	14JUN14	
QHK27520	FIELD ADMIN WRK FOR STRUCS	30	30	0	16MAY14	14JUN14	
QHK285	CCO ADMIN	30	30	0	16MAY14	14JUN14	
QHK290	RSLV CONTR CLAIMS	159	159	0	05DEC14	12MAY15	
QHK29515	AS-BUILT PLANS	60	60	0	05DEC14	02FEB15	
QHK29520	PROJ HISTORY FILE	30	30	0	05DEC14	03JAN15	
QHK29525	FR	30	30	0	05DEC14	03JAN15	
QHK29530	PRCSD FNL EST	30	30	0	13MAY15	11JUN15	
QHK29599	OTR ACPT CONTR/ PREP FE & FR	30	30	0	05DEC14	03JAN15	
QHKM000	ID NEED	0	0	100	18JAN11A		
QHKM010	APPROVE PID	0	0	0		24AUG11	
QHKM015	PROG PROJ	0	0	100	31JAN11A		
QHKM020	BEGIN ENVIRO	0	0	100	31JAN11A		
QHKM040	BEGIN PROJ	0	0	100	31JAN11A		
QHKM200	PA & ED	0	0	0		24AUG11	
QHKM210	BEGIN DESIGN	0	0	0	01SEP12*		
QHKM260	SKELETON LAYOUT	0	0	0		19MAR13	
QHKM299	D11M DISTRICT LOG-IN APPROVED	0	0	0		10OCT13*	
QHKM300	CIRC PLANS IN DIST	0	0	0		01AUG13	
QHKM380	PROJ PS&E	0	0	0		19NOV13	
QHKM410	R/W CERT	0	0	0		08APR13	
QHKM460	RTL	0	0	0		07JAN14	
QHKM480	HQ ADVERT	0	0	0	01MAR14		
QHKM490	BIDS OPEN	0	0	0		03APR14	
QHKM495	AWARD	0	0	0		01MAY14	
QHKM500	APPROVE CONTRACT	0	0	0		15MAY14	
QHKM600	CONTRACT ACCEPT	0	0	0		04DEC14	
QHKM650	PROJECT CLOSEOUT INITIATED	0	0	0	05DEC14		
QHKM700	FINAL REPORT	0	0	0		11JUN15	
QHKM800	END PROJ	0	0	0		11JUN15	

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EXHIBIT 13

ACT CODE	DESCRIPTION	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	TOTAL
PS	PS-100.15,185,205,230,235,240,250,255,260,265			319222	330778			650000
RW	RW-100.25,195,200,220,225,245,300			10488	4890	4622		20000
CM	CM-100.20,270,275,285,290,295				474195	475805		950000
	REPORT TOTAL			329710	809863	480427		1620000

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ACTIVITY ID	DESCRIPTION	EARLY START	EARLY FINISH	ORIG DUR	REM DUR	% COMPL	RESOURCE	BUDGET QTY (Hrs)	BUDGET COST	COST AT COMPLETION
QHK10005	PROJ MGMT - PID CMPNT	18JAN11A	24AUG11	163	10	5	KRW01406 KEM01107 QEM02141	5 100 100	335 9600 9200	335 9600 9200
								205	19135	19135
QHK10010	PROJ MGMT - PA&ED CMPNT	18JAN11A	24AUG11	164	10	5	KEM02140 KPD02278 KRW01406	40 854 55	4120 80276 3685	4120 61288 3685
								949	88081	69093
QHK10015	PROJ MGMT - PS&E CMPNT	01SEP12	15MAY14	622	622	0	KPD02228 QPD15266 QEM02141 QEM01110 KEM02140 QES17325 KEM01125 QOE03291	139 5 21 12 15 8 46 8	13622 450 1932 1464 1545 808 3404 800	13622 450 1932 1464 1545 808 3404 800
								254	24025	24025
QHK10020	PROJ MGMT - CONST CMPNT	16MAY14	10JUN15	391	391	0	QPD15266 KCN01510 KPD02228 QEM02141 QEM01110 QES17325	3 29 57 5 5 10	270 2465 5586 460 610 1010	270 2465 5586 460 610 1010
								109	10401	10401
QHK10025	PROJ MGMT - R/W CMPNT	01SEP12	10JUN15	1013	1013	0	KRW01406	203	13601	13601
								203	13601	13601
QHK1500505	RVW OF EXTG RPTS STUDIES & MP	18JAN11A	27FEB11A	45	0	100	KTP09195	10	940	0
								10	940	0
QHK1500515	UTIL SRCH	27JAN11A	27FEB11A	45	0	100	KRW05440	25	1700	0
								25	1700	0
QHK1500520	ENV CNSTRTS ID	18JAN11A	07APR11A	45	0	100	KTP05177 KPD01217 KTP02168	40 432 12	2720 44928 816	0 0 0
								484	48464	0
QHK1500525	TRAF FRCSTS/MODELING	18JAN11A	26JAN11A	45	0	100	KTP09195 KTP09196	100 40	9400 2960	0 0
								140	12360	0
QHK1501005	PUB/LA INPUT	01APR11A	27JUN11A	45	0	100	KPD01217	20	2080	0
								20	2080	0
QHK1501015	CONCEPT ALTS DVLMNT	01MAR11A	12MAY11A	30	0	100	KPD01217	400	41600	0
								400	41600	0
QHK1501505	R/W DATA SHEETS	21APR11A	06JUN11A	60	0	100	KPD01217 KRW01406 KRW05440 KTP02168	5 40 8 50	520 2680 544 3400	0 0 0 0
								103	7144	0
QHK1501515	RR INVLT DTRMTN	05APR11A	28JUN11A	60	0	100	KRW04430	5	315	0

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ACTIVITY ID	DESCRIPTION	EARLY START	EARLY FINISH	ORIG DUR	REM DUR	% COMPL	RESOURCE	BUDGET QTY (Hrs)	BUDGET COST	COST AT COMPLETION
								5	315	0
QHK1501520	DPGR	05APR11A	29APR11A	60	0	100	KPD01217	10	1040	0
							QES17325	10	1010	0
								20	2050	0
QHK1501535	MMDL RVW	27JAN11A	29APR11A	61	0	100	KPD01217	8	832	0
								8	832	0
QHK1501545	TRAF CAP ANALY	07MAR11A	29APR11A	60	0	100	KPD01217	60	6240	0
							KTP09196	5	370	0
							KTP09195	8	752	0
								73	7362	0
QHK1501550	TRAF STUDIES	21APR11A	02JUN11A	45	0	100	KTM01368	40	3400	0
							KTM02384	4	412	0
							KTP09196	25	1850	0
							KTP09195	50	4700	0
								119	10362	0
QHK1501555	CONST ESTS	01MAR11A	16AUG11A	45	0	100	KPD01217	60	6240	0
								60	6240	0
QHK1502005	INIT NOISE STUDY	01APR11A	27JUN11A	60	0	100	KEM02140	1	103	0
							KES10334	40	4160	0
							KTP09195	20	1880	0
								61	6143	0
QHK1502015	SR&LAR	18JAN11A	27JUN11A	20	0	100	KES11341	20	1980	0
								20	1980	0
QHK1502025	INIT BIO STUDY	14APR11A	27JUN11A	60	0	100	KTP05177	10	680	0
								10	680	0
QHK1502045	INIT AIR QUAL STUDY	01APR11A	27JUN11A	45	0	100	KEM02140	5	515	0
								5	515	0
QHK1502505	DRAFT PID	16JUN11A	16AUG11A	16	0	100	KPD01217	5	520	0
								5	520	0
QHK1502510	APVD EXPTNS TO DSN STDS	12MAY11A	09AUG11A	35	0	100	KPD01217	50	5200	0
							KTM02384	20	2060	0
								70	7260	0
QHK1502520	PID CIRCN RVW & APVL	15AUG11A	24AUG11	8	10	0	KES06312	8	776	776
							KES01286	8	816	816
							KES13349	8	840	840
							KTM02384	40	4120	4120
							KTP06179	8	560	560
							KPD02228	40	3920	3920
							KTP02168	8	544	544
							KES09328	8	616	616
							KTM01366	8	736	736
							KES04309	8	744	744
							KES01285	8	784	784
							KES04308	8	768	768
							KMA01602	8	856	856
							KES10332	8	816	816
							KTM03393	8	808	808
							KPD01217	80	8320	8320

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ACTIVITY ID	DESCRIPTION	EARLY START	EARLY FINISH	ORIG DUR	REM DUR	% COMPL	RESOURCE	BUDGET QTY (Hrs)	BUDGET COST	COST AT COMPLETION
QHK1600505	APVD PID RVW	31JAN11A	16AUG11A	30	0	100	KPD02228 KES08319 KRW05440	40 20 6	3920 1820 408	0 0 0
								66	6148	0
QHK1601010	TRAF FRCSTS/MODELING	26JAN11A	27FEB11A	15	0	100	KTM01368 KTP09196 KTP09195 KTM02384	40 25 50 8	3400 1850 4700 824	0 0 0 0
								123	10774	0
QHK1601045	UTIL LOCNS DTRMND FOR PREL EN	31JAN11A	28JUN11A	5	0	100	KRW01406 KRW05440	5 8	335 544	0 0
								13	879	0
QHK16015	DRAFT PR	25MAY11A	16AUG11A	30	0	100	KRW01406 KRW05440 KTM02384 KPD02228	10 6 40 40	670 408 4120 3920	0 0 0 0
								96	9118	0
QHK16510	GENL ENV STUDIES	14APR11A	29JUN11A	20	0	100	KPD02228 KES10334 KES13349 KTP05177 KTP02168	8 16 18 5 8	784 1664 1890 340 544	0 0 0 0 0
								55	5222	0
QHK16515	BIOL STUDIES	14APR11A	29JUN11A	30	0	100	KTP05177	75	5100	0
								75	5100	0
QHK1652515	CAT EX/CE DTRMTN	14APR11A	28JUN11A	2	0	100	KTM03391 KTP05177 KTP02168	1 5 10	92 340 680	0 0 0
								16	1112	0
QHK180	PREP & APV PR & FED	29JUN11A	16AUG11A	15	0	100	KES01286 KES01285 KTP02169 KRW01406	16 40 100 2	1632 3920 6600 134	0 0 0 0
								158	12286	0
QHK18505	UPDD PROJ INFO	01SEP12	10SEP12	10	10	0	KTM02384 KRW01406 KES02301 KES01286 KES01285	15 8 15 31 31	1545 536 840 3162 3038	1545 536 840 3162 3038
								100	9121	9121
QHK1851060	ENGRG SRVYS	11SEP12	13OCT12	33	33	0	QES08320 KES04308	8 93	584 8928	584 8928
								101	9512	9512
QHK18515	PREL DSN	11SEP12	19MAR13	190	190	0	KPD02278 KES15330 KTM02384 KES02301 KES11341	1317 25 31 15 15	123798 2450 3193 840 1485	123798 2450 3193 840 1485
								1403	131766	131766

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ACTIVITY ID	DESCRIPTION	EARLY START	EARLY FINISH	ORIG DUR	REM DUR	% COMPL	RESOURCE	BUDGET QTY (Hrs)	BUDGET COST	COST AT COMPLETION
QHK1852005	UPDD TRAF DATA ANALY & FRCSTS	11SEP12	15SEP12	5	5	0	KTP02169	77	5082	5082
							KTM02384	15	1545	1545
							KES06312	31	3007	3007
							KTM01368	31	2635	2635
							KTP09196	12	888	888
							KTM02383	31	2852	2852
							KTP09195	12	1128	1128
							KTM03391	8	736	736
								217	17873	17873
QHK1852020	PREL PVNT DSN. RPT	11SEP12	15SEP12	5	5	0	KES08321	12	996	996
								12	996	996
QHK22550	PARCEL & PROJ DOCN	20MAR13	08APR13	20	20	0	KRW05440	10	680	680
							KES04309	51	4743	4743
							KRW01406	15	1005	1005
								76	6428	6428
QHK23005	DRAFT RDWY PLANS	20MAR13	01AUG13	135	135	0	KES10332	12	1224	1224
							KES15330	6	588	588
							KES02301	12	672	672
							KTM02382	31	3255	3255
								61	5739	5739
QHK23010	DRAFT HPPS	20MAR13	18APR13	30	30	0	KES11341	31	3069	3069
							KES03303	31	3100	3100
							KTM02382	15	1575	1575
							KES02301	12	672	672
								89	8416	8416
QHK2301505	SNG & PVNT DELN PLANS	20MAR13	18APR13	30	30	0	KTM02383	62	5704	5704
							KES02301	12	672	672
								74	6376	6376
QHK2301510	CONST AREA SIGNS PLANS	20MAR13	18APR13	30	30	0	KTM02383	62	5704	5704
								62	5704	5704
QHK2301515	TRAF ELRCL PLANS	20MAR13	29MAR13	10	10	0	KTM01366	15	1380	1380
							KTM03393	93	9393	9393
							KTM02382	15	1575	1575
								123	12348	12348
QHK23020	TMP	20MAR13	18APR13	30	30	0	KTM03393	62	6262	6262
							KTM02382	8	840	840
								70	7102	7102
QHK23030	DRAFT DRNG PLANS	20MAR13	18APR13	30	30	0	KES06312	31	3007	3007
							KES02301	25	1400	1400
								56	4407	4407
QHK23035	DRAFT SPECS	11OCT13	23OCT13	13	13	0	KES01285	151	14798	14798
							KTM01368	62	5270	5270
							KES10332	25	2550	2550
							KTM02382	8	840	840
								246	23458	23458
QHK23040	DRAFT PS&E Q&E	20MAR13	02JUN13	75	75	0	KES02301	12	672	672
							KPD02278	659	61946	61946
							KES01286	43	4386	4386
							KES01285	59	5782	5782
							KTM02382	23	2415	2415

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ACTIVITY ID	DESCRIPTION	EARLY START	EARLY FINISH	ORIG DUR	REM DUR	% COMPL	RESOURCE	BUDGET QTY (Hrs)	BUDGET COST	COST AT COMPLETION
								796	75201	75201
QHK23530	HSDD	20MAR13	30MAR13	11	11	0	KES06312	31	3007	3007
							KTP02168	31	2108	2108
							KES12345	12	1104	1104
							KES13349	77	8085	8085
								151	14304	14304
QHK25505	CIRCD & RVWD DRAFT DIST PS&E	24OCT13	03NOV13	11	11	0	KES10332	6	612	612
							KES02301	15	840	840
							KPD02228	77	7546	7546
							KPD99246	23	2254	2254
							KTP02168	31	2108	2108
							KMA01602	6	642	642
							KES04309	6	558	558
							KES08321	3	249	249
							KES04308	6	576	576
							KES01286	31	3162	3162
							KPD02278	659	61946	61946
							KTM03391	8	736	736
							KTP06179	6	420	420
							KTM02382	31	3255	3255
							KTM01366	6	552	552
							KES15330	6	588	588
							KCN01510	23	1955	1955
							KES13349	15	1575	1575
							KTM03393	14	1414	1414
							KES06312	83	8051	8051
							KES01285	31	3038	3038
							KES08327	3	207	207
								1089	102284	102284
QHK25510	UPDD PS&E PCKG	04NOV13	19NOV13	16	16	0	KES02301	15	840	840
							KES01285	185	18130	18130
							KTM02382	15	1575	1575
							KTM03393	77	7777	7777
							KES11341	154	15246	15246
							KES03303	15	1500	1500
							KPD02278	659	61946	61946
							KTM01366	15	1380	1380
							KPD02228	62	6076	6076
							KES01286	177	18054	18054
								1374	132524	132524
QHK25540	RE'S PENDING FILE	04NOV13	19NOV13	16	16	0	KPD02228	62	6076	6076
								62	6076	6076
QHK260	CONTR BID DOCS [RTL]	20NOV13	04DEC13	15	15	0	KES01285	62	6076	6076
							KES02301	15	840	840
							KPD02225	168	16800	16800
							KES01286	62	6324	6324
							KCN01510	23	1955	1955
								330	31995	31995
QHK265	AWDD & APVD CONST CONTR	08JAN14	15MAY14	128	128	0	QOE02286	31	2263	2263
							QOE01285	35	3500	3500
							KES01285	31	3038	3038
							KPD02228	31	3038	3038
							QES14284	62	2790	2790
							KCN01510	23	1955	1955
							QOE03291	23	2300	2300
							QOE06302	31	1860	1860
								267	20744	20744
QHK27015	CONST STAKES	16MAY14	14JUN14	30	30	0	KES04310	76	6612	6612

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ACTIVITY ID	DESCRIPTION	EARLY START	EARLY FINISH	ORIG DUR	REM DUR	% COMPL	RESOURCE	BUDGET QTY (Hrs)	BUDGET COST	COST AT COMPLETION
								76	6612	6612
QHK27020	CONST ENGRG WRK	29MAY14	04DEC14	190	190	0	KCN02516	475	40375	40375
							KTM02382	67	7035	7035
							KES08321	11	913	913
							KCC02C00	10	1250	1250
							KTM01368	90	7650	7650
							KTM03391	70	6440	6440
							KES08327	4	276	276
							QES17325	38	3838	3838
							KCN01510	57	4845	4845
								822	72622	72622
QHK27025	CONST CONTR ADMIN WRK	16MAY14	14JUN14	30	30	0	KCN02516	475	40375	40375
							KCN01510	57	4845	4845
							KCN06599	48	2880	2880
							KCC02C00	48	6000	6000
							KCN05595	95	5605	5605
								723	59705	59705
QHK27030	CONTR ITEM WRK INSPN	29MAY14	04DEC14	190	190	0	KCN02516	3190	271150	271150
							KCC02C00	190	23750	23750
							KES10332	23	2346	2346
								3403	297246	297246
QHK27035	CONST MTL S&T	16MAY14	14JUN14	30	30	0	KTM02382	29	3045	3045
							KES08321	57	4731	4731
							QES08320	143	10439	10439
							QES08318	200	16400	16400
							KES08327	57	3933	3933
							KCN02516	1063	90355	90355
							QES17325	38	3838	3838
							QPD15266	10	900	900
								1597	133641	133641
QHK27065	TMP IMPLN DURING CONST	16MAY14	14JUN14	30	30	0	KTM01368	19	1615	1615
							KTM03392	38	2280	2280
								57	3895	3895
QHK27520	FIELD ADMIN WRK FOR STRUCS	16MAY14	14JUN14	30	30	0	KCN02517	285	21660	21660
								285	21660	21660
QHK285	CCO ADMIN	16MAY14	14JUN14	30	30	0	KCN02516	380	32300	32300
							QPD15266	5	450	450
							KCN01510	95	8075	8075
							QES17325	8	808	808
							KES06312	190	18430	18430
							KES15330	2	196	196
							KPD02278	1014	95316	95316
							KPD99246	15	1470	1470
							KTP02168	8	544	544
							KCC02C00	10	1250	1250
							KES10332	8	816	816
							KTM02382	29	3045	3045
							KPD02228	171	16758	16758
							KES11341	38	3762	3762
								1973	183220	183220
QHK290	RSLV CONTR CLAIMS	05DEC14	12MAY15	159	159	0	KCC02C00	10	1250	1250
							QES17325	6	606	606
							QCN02541	46	4232	4232
							KCN01510	190	16150	16150
							KCN02516	285	24225	24225
								537	46463	46463

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ACTIVITY ID	DESCRIPTION	EARLY START	EARLY FINISH	ORIG DUR	REM DUR	% COMPL	RESOURCE	BUDGET QTY (Hrs)	BUDGET COST	COST AT COMPLETION
QHK29515	AS-BUILT PLANS	05DEC14	02FEB15	60	60	0	KES02301	38	2128	2128
							KCC02C00	5	625	625
							QCN02541	38	3496	3496
							KES03306	19	1748	1748
							KCN01510	29	2465	2465
							KES04308	38	3648	3648
							KPD02278	406	38164	38164
							KCN02516	48	4080	4080
							621	56354	56354	
QHK29520	PROJ HISTORY FILE	05DEC14	03JAN15	30	30	0	KCN02516	19	1615	1615
							KPD02278	406	38164	38164
							KCN01510	19	1615	1615
							QCN02541	21	1932	1932
							465	43326	43326	
QHK29525	FR	05DEC14	03JAN15	30	30	0	KCN01510	19	1615	1615
							QCN02541	19	1748	1748
							KCN02516	19	1615	1615
							57	4978	4978	
QHK29530	PRCSD FNL EST	13MAY15	11JUN15	30	30	0	KCN01510	19	1615	1615
							KCN02516	19	1615	1615
							38	3230	3230	
QHK29599	OTR ACPT CONTR/ PREP FE & FR	05DEC14	03JAN15	30	30	0	KCC02C00	5	625	625
							KCN02516	52	4420	4420
							KCN01510	19	1615	1615
							76	6660	6660	
								21713	1962439	1734265

