

10-AMA-88-PM 3.1/4.4, 7.0/11.5
Program Code 201.010
EA 10-0U2800
10 0002 0354
August 2011

PROJECT STUDY REPORT/ PROJECT REPORT

To

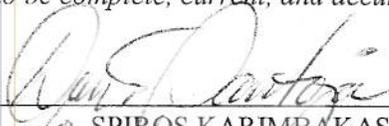
Requesting Programming in the 2011 SHOPP And Provide Project Approval

On Route 88

From Jackson Creek Bridge(Br. # 26-19) to West of Martin Lane

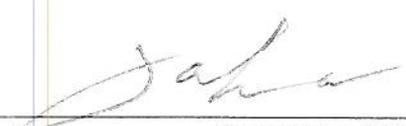
And West of Junction with SR 104 to West of Ridge Road

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



to SPIROS KARIMBAKAS
Chief Central Region Division – Right of Way

APPROVAL RECOMMENDED:



IORZUA AKUVA
Project Manager

APPROVED:



CARRIE L. BOWEN
District Director, District 10

10-3-11
Date

10-AMA-88-PM 3.1/4.4, 7.0/11.5
Program Code 201.010
EA 10-0U2800
10 0002 0354
August 2011

This Project Report/Project Study Report has been prepared under the direction of the following registered civil engineer. The registered civil engineer attests to the technical information contained herein and the engineering data upon which recommendations, conclusions, and decisions are based.



ALLEN LAO
Registered Civil Engineer

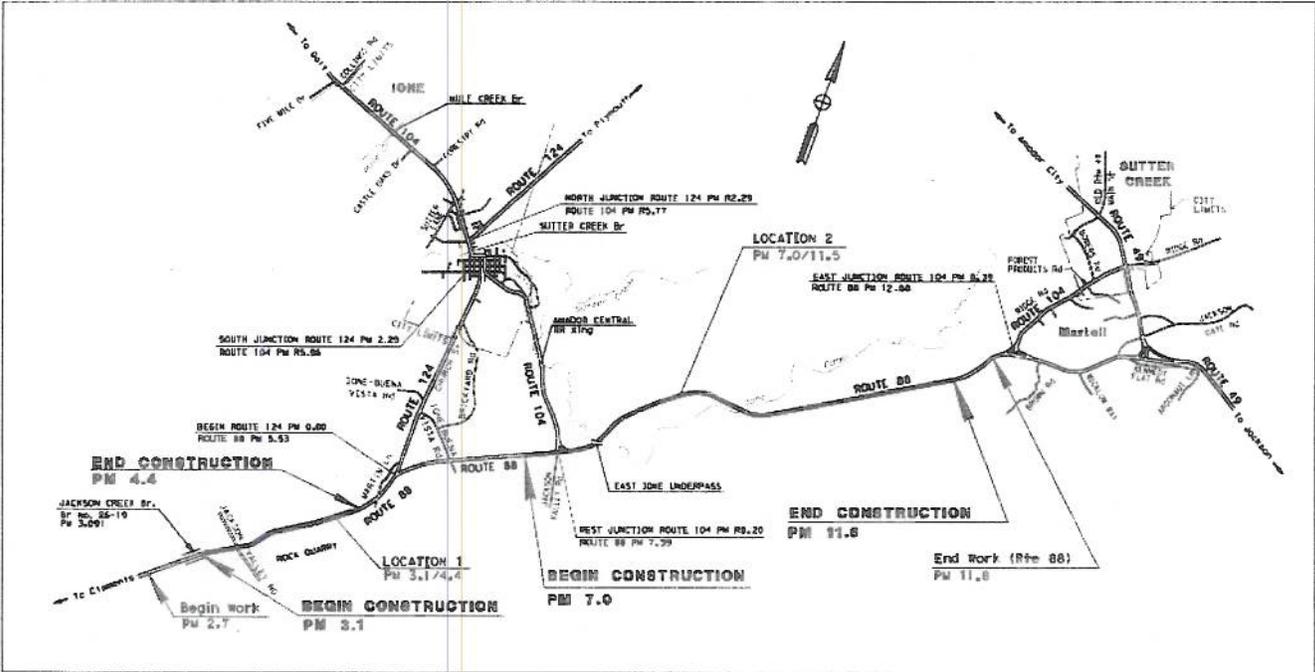
9/29/11

DATE



10-AMA-88-PM 3.1/4.4, 7.0/11.5
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Vicinity Map



On Route 88

From Jackson Creek Bridge(Br. # 26-19) to West of Martin Lane

And West of Junction with SR 104 to West of Ridge Road

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PROJECT REPORT/PROJECT STUDY REPORT

1. INTRODUCTION

Caltrans proposes to install centerline rumble strips along the no passing zone and non-reflective markers along the passing zones on two rural highway segments of SR 88 in Amador County. Location 1 is located between Jackson Creek Bridge No. 26-19 (PM 3.14) and the end of the no-passing zone (PM 4.4). Location 2 is located near the Community of Martell, from west of Jackson Valley Road (PM 7.00) to west of Ridge Road (PM 11.50).

The total unescalated estimated construction cost is \$613,013.00 (See Attachment F). No right of way acquisition or utility relocation is needed. This project will be amended into the 2010 State Highway Operation and Protection Program (SHOPP) in the 2012/13 Fiscal Year (FY) with funding proposed to come from the Safety Collision Reduction Program (201.010).

See the Cost Estimate for specific work items included in this project.

Project Limits Dist., Co., Rte., PM	10-AMA-88-PM 3.1/4.4, 7.0/11.5
Capital Costs:	\$613,013.00
Right of Way Costs:	\$0
Funding Source:	201.010
Number of Alternatives:	2
Recommended for Programming or Approved Alternative	Alternative 1
Type of Facility (conventional, expressway, freeway):	2-lane divided conventional Highway
Number of Structures:	0
Anticipated Environmental Determination/Document:	Categorical Exemption (CE) under Class 1 of the California Environmental Quality Act (CEQA) guidelines
Legal Description	Rumble strips installation from Jackson Creek Bridge to west of Martin Lane, and from City of Martell to just west Jackson Valley Rd.

2. RECOMMENDATION/PROPOSAL

It is recommended that this project to install centerline rumble strips be approved, and that this project proceed to the design phase.

3. BACKGROUND

Project History

This project is recommended as a result of an investigation for the Two-and Three-lane Safety Monitoring Program, as part of the 2006 and 2007 Report. The Conceptual Report for this project was approved by District Director, Ross Chittenden, on July 19, 2010.

Existing Facility

SR-88 within the project limits is a two-lane, undivided conventional highway on rolling hill terrain that runs in an east-west direction in Amador County.

The posted speed limit of the highway ranges from 45 to 55 mph. Existing traffic lanes are 12' wide with paved outside shoulders varying from 2' feet to 8' feet wide.

4. PURPOSE AND NEED STATEMENT

A. Need:

The need for this project is to reduce the number of collisions involving vehicles crossing the centerline.

B. Purpose:

The purpose of this project is to address the identified collision pattern. It is anticipated that the installation of centerline rumble strips will reduce the number of vehicles crossing the centerline.

5. DEFICIENCIES

Table-1: Accident Rate* (4/01/2007 to 3/31/2010)

Type	Actual	Statewide Average
Fatal	0.000	0.025
Fatal + Injury	0.43	0.35
Total	1.23	0.79

Location 1: PM 3.1/4.4

**Accidents per Million Vehicle Miles*

Table-2: Accident Rate* (4/01/2007 to 3/31/2010)

Type	Actual	Statewide Average
Fatal	0.066	0.026
Fatal + Injury	0.48	0.38
Total	0.95	0.84

Location 2: PM 7.0/11.5

**Accidents per Million Vehicle Miles*

6. CORRIDOR AND SYSTEM COORDINATION

Identify System

State Route (SR-88) originates at the Junction of SR-99/Waterloo Road, on the eastside of the City of Stockton, in San Joaquin County. It proceeds in a northeasterly direction through the small rural valley communities of Lockeford and Clements, into the Mother Lode communities of Jackson, Pine Grove, and Pioneer, over the Sierra Mountains through Kirkwood, and terminates at US-395 at the Nevada State Line.

SR-88 is primarily a 2-lane facility with passing lanes and left-turn lanes in various locations in San Joaquin, Amador, and Alpine Counties. SR-88 is concurrent with SR-12 through Lockeford and Clements and with SR-49 through the City of Jackson.

Small communities along the SR-88 corridor have experienced significant growth and are feeling the migration pressure from the Bay Area and the San Joaquin Valley. Degradation of the LOS is a result of continuing increases in land use development in the fast growing areas located in near proximity of SR-88. This trend is expected to continue for the next 20 years and beyond.

System Designation

SR-88 is part of the Interregional Road System (IRRS) from the east-urban limits of the City of Stockton to US-395, Nevada State Line and is functionally classified as a Principal Arterial in its entirety. Portions of the route are included in the National Highway System (NHS).

SR-88 is included in the Freeway and Expressway (F & E) System. It is not included in the Surface Transportation Assistance Act (STAA) Network. SR-88 is designated a Terminal Access Route from the San Joaquin/Amador County line to the Junction of SR-49. It is officially designated as a Scenic Highway from Dew Drop Road in Amador County to the Nevada State Line. All of SR-88 is bicycle accessible.

Planning Horizon

The SR-88 Draft Transportation Concept Report (TCR) identifies the concept (LOS) for a 20-year planning horizon and the Ultimate Transportation Corridor (UTC), beyond our 20-year planning horizon as a concept LOS "C".

7. ALTERNATIVES

Two alternatives were considered for this project. Alternative 1 has been chosen as the preferred alternative for this project.

7A. VIABLE ALTERNATIVES

This alternative will install centerline rumble strips in the no-passing zone and non-reflective markers along the passing zones on two rural highway segments of State Route 88 in Amador County from Jackson Creek Bridge to Ridge Road.

This alternative will remove existing centerline double yellow stripes, as well as pavement markers (reflective and non-reflective) prior to installing the new rumble strips. The removed centerline traffic stripes will be replaced with sprayable thermoplastic stripes and Type D markers upon completion of rumble strip installation.

Centerline rumble strips will not be installed where passing is allowed. Instead, two black Type A non-reflective pavement markers will be placed between the existing reflector and the yellow line of Detail 6 and 19 (Passing Zone) as originally proposed in the conceptual report. All existing centerline stripes and pavement markers in passing zones will remain in place.

The project is estimated at \$613,013.00 with no right of way requirements. No Design Exceptions are required.

7B. REJECTED ALTERNATIVES

This is the "no-build" alternative. This alternative was not selected because it would do nothing to improve the overall safety characteristics of the highway segment by alerting motorists of errant movement.

8. CONSIDERATIONS REQUIRING DISCUSSION

A. Hazardous Waste

A hazardous waste concern is due to the removal of yellow thermoplastic stripes, which contains lead. Any waste generated from removal of existing thermoplastic stripes would

require disposal to a Class 1 landfill. Protection of worker health and safety will require that a lead compliance plan be developed prior to any ground or pavement disturbing work.

B. Value Analysis

Value Analysis (VA) for this project is not required.

C. Resource Conservation

This project will have asphalt pavement cold planing to remove existing pavement and centerline delineation. The material generated from this procedure can be recycled.

D. Right of Way Issues

All construction will be within existing State right of way. No additional right of way or utility relocations are anticipated. A right of way data sheet has been prepared (See Attachment C).

E. Environmental Issues

The project is Categorically Exempt under Class 1 of the California Environmental Quality Act (CEQA) guidelines and has Programmatic Categorical Exclusion under National Environmental Policy Act (NEPA) (See Attachment D).

F. Water Quality

A short form Storm Water data Report (SWDR) has been prepared and approved for this project (See Attachment F). No soil disturbance is anticipated. A National Pollutant Discharge Elimination System (NPDES) permit will not be required (See Attachment E).

9. OTHER CONSIDERATIONS AS APPROPRIATE

A. Public Hearing Process

A Public Hearing is not required for this project.

B. Cooperative Agreements

No cooperative agreement is required for this project.

C. Traffic Management Plan (TMP) During Construction

A Traffic Management Plan has been prepared for this project (Attachment G). The purpose of the TMP is to minimize motorists delays associated with the construction of the project without compromising public or worker safety, or the quality of the work being performed. This would be accomplished by effective application of traditional traffic mitigation strategies and a combination of public and motorist information, demand management, incident management, system management, and construction strategies.

The effective application of traditional traffic mitigation strategies involves restricting lane or ramp closures to non-peak hours only. Implementation of this strategy would minimize delays and inconvenience to the motoring public. Full highway or ramp closure should be minimized to certain critical construction operations only, where no other methods are feasible. Portable Changeable Message Signs (CMS) will be utilized. It is anticipated that there will not be night work. Reversing traffic control will be utilized during the construction window pursuant to the lane closure chart that has been provided (Attachment G).

D. Adjacent Projects

Location 1 of this project is within the project limits of another project, EA 10-264441 (Jackson Valley Rehab), which proposes roadway rehabilitation, shoulder widening at certain segments, bridge widening, retaining walls, and centerline rumble strips. Should EA 10-264441 achieve RTL status, Location 1 of EA 10-0U2800 can be withdrawn from this project.

10. COMMUNITY INVOLVEMENT

Minimal community interaction is expected by this project.

11. ENVIRONMENTAL DETERMINATION DOCUMENT

The project is Categorical Exempt under Class 1 of the California Environmental Quality Act (CEQA) guidelines and a 6004 Categorical Exclusion under National Environmental Policy Act (NEPA) (see Attachment D).

12. FUNDING

It is proposed to fund this project from the SHOPP Program in the 2012/13 FY. Funding will be from the Safety Collision Reduction Program (201.010).

The escalated Construction and Support Costs are summarized in the table below, followed by the proposed project schedule.

12A. CAPITAL COST

Capital Cost Estimate for 2011 SHOPP

Fiscal Year	Right of Way Capital	Construction Capital
FY 12/13	\$0	\$652,000

12B. CAPITAL SUPPORT ESTIMATE

Project Cost Component	Fiscal Years				Total
	2011/12	2012/13	2013/2014	2014/2015	
R/W Capital					
Construction Capital**		\$652			\$652
PA&ED*	\$10				\$10
PS&E*	\$280				\$280
R/W Support*	\$2				\$2
Construction Support*		\$135			\$135
Total	\$292	\$787			\$1,079

Notes:

1. All costs X\$1,000. Support Categories are the same as those identified by SB 45.
2. Escalation rate = 3.10%.

16. **PROJECT REVIEWS**

Field Review	<u>Project Development Team</u>	Date <u>4-22-11</u>
District Safety Review Chief District 10 Traffic Safety	<u>Mark Orr</u>	Date <u>8-17-11</u>
	<u>Duper Tong</u>	Date <u>8-26-11</u>

17. **ATTACHMENTS**

Attachment-A Location Map
Attachment-B Construction Details
Attachment-C Right of Way Data Sheet
Attachment-D Environmental Document (Categorical Exemption)
Attachment-E SWDR Signature Page
Attachment-F Cost Estimate
Attachment-G TMP Checklist

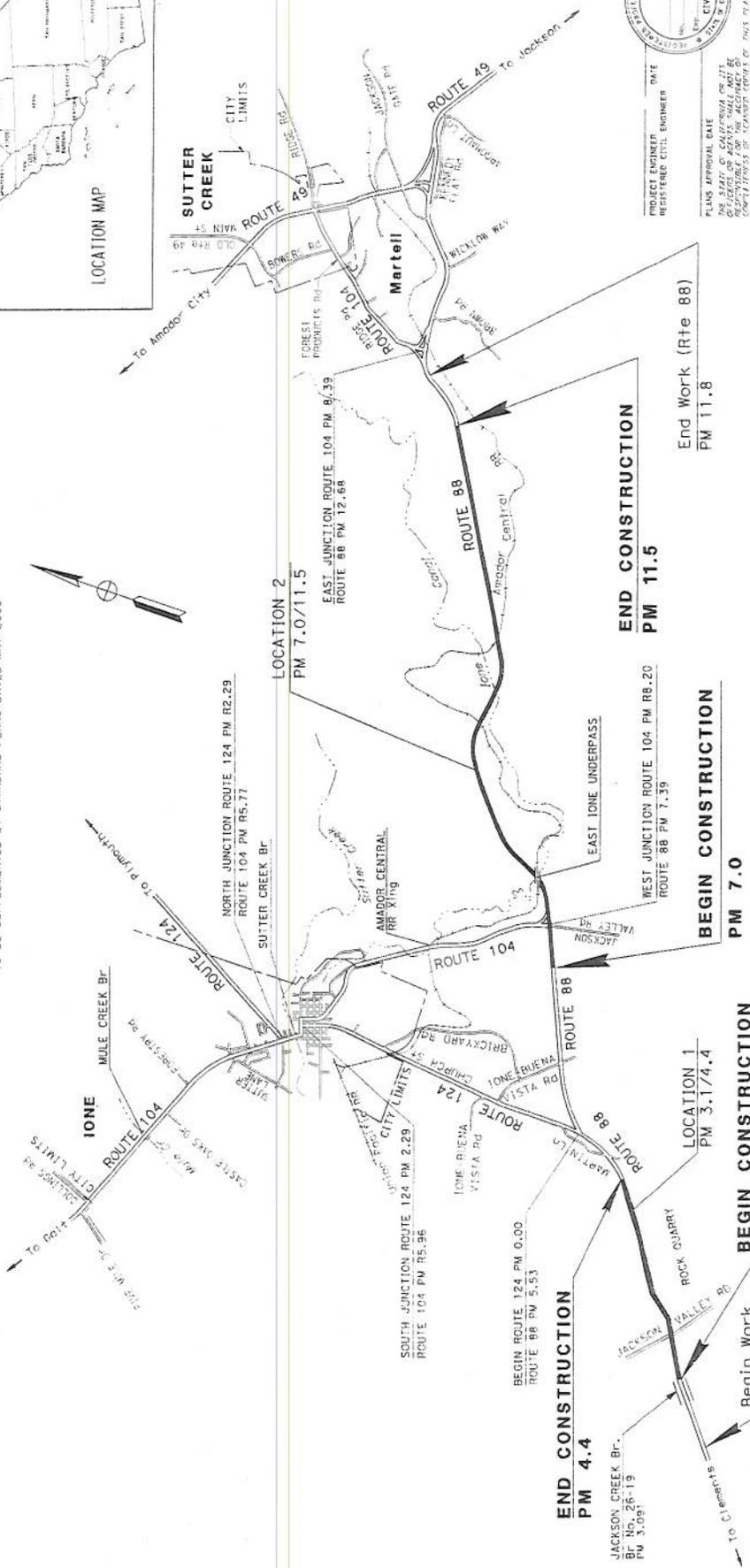
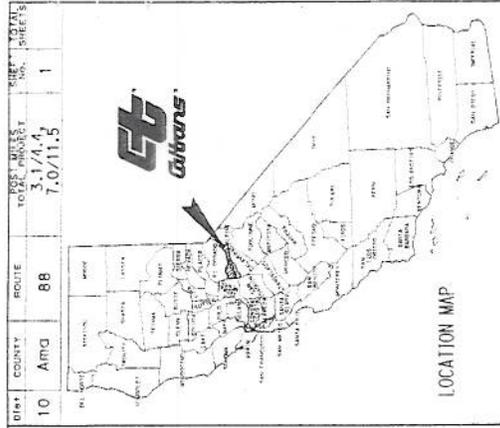
SHEET No.	DESCRIPTION
10	AMAD
88	ROUTE
3.1/4.4, 7.0/11.5	TOTAL PROJECT SHEETS

**STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY**

**IN AMADOR COUNTY, AT AND NEAR SUNNYBROOK
FROM JACKSON CREEK BRIDGE TO 0.8 MILE WEST OF
MARTIN LANE AND FROM 0.4 MILE WEST OF WEST
JUNCTION ROUTE 104 TO 0.8 MILE WEST OF RIDGE ROAD**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.



PROJECT MANAGER	TORZUA AKUYA
DESIGN ENGINEER	ALLEN LAD

THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE NOTICE TO BIDDERS.

REVISED LAST: REVISED 7/2/2010 CALTRANS WEB SITE (54 HTTP://WWW.CALTRANS.CA.GOV/)

NO SCALE
RELATIVE HORIZONTAL SCALE: 1" = 15' HORIZONTAL
RELATIVE VERTICAL SCALE: 1" = 15' VERTICAL

UNIT 1451 PROJECT NUMBER & PHASE 1000020354K
CONTRACT No. 1000020354
PROJECT ID 1000020354

PROJECT ENGINEER REGISTERED CIVIL ENGINEER DATE
PLANS APPROVAL DATE
THE STATE OF CALIFORNIA PUBLIC WORKS DIVISION
REGISTERED CIVIL ENGINEER DATE
DATE PLOTTED 08-06-2011
SCALE 1:142

ATTACHMENT A

Memorandum

To: Iorzua Akuva
Stockton PPM

Attn: Percy Maragos
Design IV, Branch "L"
Jose Huerta
Design IV, Branch "L"

From: Department of Transportation
Division of Right of Way Central Region

Date: 5/6/2011

File: CD 10 EA 002800 Alt N/A
Co AMA RTE 88

DESCRIPTION:

Install centerline rumble strips along the no passing zone and non-reflective markers along the passing zones.

Subject: RIGHT OF WAY DATA SHEET

We have completed an estimate of the right of way costs for the above-referenced project based on the Right of Way Data Sheet Request Form dated 3/24/2011

The following assumptions and limiting conditions were identified:

Appraisal

No Right of Way required at this time. All work to be done within the existing State Right of Way.

Utility

Per Design all work will be performed within State's right of way. No conflicts with utility facilities.

Right of Way Lead Time will require a minimum of 6 months after we receive Certified Appraisal Maps and/or Utility Conflict Plans, obtained necessary environmental clearance and applicable freeway agreements have been approved.



MICHAEL J. RODRIGUES
Assistant Region Division Chief, Right of Way
(209) 948-7844

Right Of Way Cost Estimate

	Current Year 2011	Contingency Rate	Right of Way Escalation Rate	Escalated Year 2011
Acquisition:	\$0	25%	5%	\$0
Mitigation:	\$0	25%	5%	\$0
State Share of Utilities:	\$0	25%	5%	\$0
Expert Witness:	\$0	25%	5%	\$0
Relocation Assistance:	\$0	25%	5%	\$0
Demolition and Clearance:	\$0	25%	5%	\$0
Title and Escrow:	\$0	25%	5%	\$0
Ad Signs:	\$0	25%	5%	\$0
Total Current Value: If RW Cost Est fields are blank, Costs = \$0	\$0			\$0

Estimated Construction Contract Work (CCW):

R/W LEAD TIME/Mo. 6

Cost Break Down	
Pot Hole	
Mitigation	
Land	0
Bank	0
Permit Fee	0

RR Involvement

Railroad Facilities or Right of Way Affected?	NO
Const/Maint Agreement:	
Service Contract:	
Right of Entry:	
Clauses:	
Estimated Lead-time	

Parcel Data

# of Parcel Type X:	0	
# of Parcel Type A: less than \$10,000 non-complex	0	
# of Parcel Type B: more than \$10,000 non-complex	0	
# of Parcel Type C: complex, special valuation	0	
# of Parcel Type D: most complex and time consuming	0	# of Duals Needed:
Totals:	0	Totals: 0

of Excess Parcels:

Misc R/W Work

# of RAP Displacements:	0
# of Clearance/Demos:	
# of Const Permits:	
# of Condemnations:	

Utilities

U4-1: Owner Expense	0
U4-2: State Expense, Conventional no Fed Aid	0
U4-3: State Expense, Freeway no Fed Aid	0
U4-4: State Expense, both with Fed Aid	0
U5-7: Utility verification, no relocation/potholing	3
U5-8: Utility verification, w/ some relocation/potholing	3
U5-9: Utility verifications, relocation/potholing required	0

EA: 10-0U2800 ALT: N/A

Parcel Area	
Total R/W Required:	0
Total Excess Area:	

Unit:	
Total R/W Cost:	\$0
Total Excess Cost:	\$0

General Description of R/W and Excess Lands Required (zoning, use, major improvements, critical or sensitive parcels, etc.):

No Right of Way required at this time. All work to be done within the existing State Right of Way.

General Description of Utility Involvement:

Is there a significant effect on assessed valuation:

No

Were any previously unidentified sites with hazardous waste or material found:

No

Are RAP displacements required:

No

of single family:

of muliti-family:

of business/nonprofit:

of farms:

Sufficient replacement housing will be available without last resort housing:

Are material borrow or disposal sites required:

No

Are there potential relinquishments or abandonments:

No

Are there any existing or potential airspace sites:

No

Are environmental mitigation parcels required:

No

Data for evaluation provided by:

Estimator:

Toni Welch

4/5/2011

Railroad Liaison Agent:

Maria Toles

4/11/2011

Utilty Relocation Coordinator:

Andrea Alvarez

5/3/2011

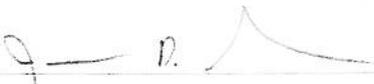
I have personally reviewed this Right of Way Sheet and all supporting information. I find this Data Sheet complete and current, subject to the limiting conditions set forth.

Date

ENTERED PMCS

5/6/2011

BY: B McCURRY



MICHAEL J. RODRIGUES
Assistant Region Division Chief, Right of Way

CATEGORICAL EXEMPTION/ CATEGORICAL EXCLUSION DETERMINATION FORM

10-AMA-88

3.1/4.4
7.0/11.5

10-0U280

Dist.-Co.-Rte. (or Local Agency)

P.M/P.M.

E.A. (State project)

Federal-Aid Project No. (Local project)/ Proj. No.

PROJECT DESCRIPTION:

(Briefly describe project, purpose, location, limits, right-of-way requirements, and activities involved.)

Enter project description in this box. Use Continuation Sheet, if necessary

Install Centerline Rumble Strip along the No Passing Zone and Non-Reflective markers along the Passing Zone.

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])]

Bran Miller
Print Name: Environmental Branch Chief

Torua Akuva
Print Name: Project Manager/DLA Engineer

Signature

Date

Signature

Date

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) (2)
- 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.

Bran Miller
Print Name: Environmental Branch Chief

Torua Akuva
Print Name: Project Manager/DLA Engineer

Signature

Date

Signature

Date

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

10 AMIA 88

3.1/4.4
7.0/11.5

10-0U280

Dist.-Co.-Rte. (or Local Agency)

P.M/P.M.

E.A. (State project)

Federal-Aid Project No. (Local project)/ Proj. No.

Continued from page 1: Vehicle staging areas would be approved by a Caltrans biologist prior to construction.

No work off pavement.

No vegetation removal or drainage modification.

Contractor shall prepare a lead compliance plan.

Short Form - Stormwater Data Report



Dist-County-Route: 10-AMA-88

Post Mile Limits: PM 3.1/4.4, 7.0/11.5

Project Type: Center Rumble Strips

Project ID (or EA): (10-OU2800)

Program identification: 201.010

Phase: PID
 PA/ED
 PS&E

Regional Water Quality Control Board: Region 5 Central Valley, Sacramento office

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

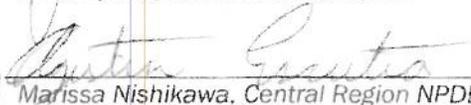
If the answer to any of the preceding questions is "Yes", prepare a Long Form - Stormwater Data Report.

Estimate Construction Start Date: June 2012 Construction Completion Date: July 2012
 Separate Dewatering Permit (if yes, permit number) Yes Permit # _____ No
 Erosivity Waiver Yes Date: _____ No

This Short Form - Stormwater 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.


 Jose Huerta, Registered Project Engineer 5/10/11
Date

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


 for Marissa Nishikawa, Central Region NPDES Stormwater Coordinator 5/10/11
Date



PSR-PR COST ESTIMATE



Dist-Co-Rte: 10-AMA-88
 PM: PM 3.1/4.4, 7.0/11.5
 EA: 10-0U2800 (1000020354)
 Program Code: 201.010

PROJECT DESCRIPTION:

Limits: The proposed project is located on State Route (SR) 88 between PM 3.1/4.4 and PM 7.0/11.5 in Amador County, west of Martell.

Proposed Improvement:
 (Scope of Work) The project is proposing to install centerline rumble strips on No Passing Zone and Non-reflective markers on Passing Zone.

Alternative: None

SUMMARY OF PROJECT COST ESTIMATE

I. ROADWAY ITEMS	Sections 1 - 5	\$ 384,334
II. ROADSIDE ITEMS	Sections 6 - 7	\$ 0
III. ROADWAY ADDITIONS	Sections 8 - 10	\$ 228,679
TOTAL ROADWAY	Total of Sections 1 - 10 shown above	\$ 613,013
TOTAL STRUCTURES		\$ 0
	SUBTOTAL CONSTRUCTION COSTS	\$ 613,013
	TOTAL RIGHT OF WAY ITEMS (Not Escallated)	\$ 0
	TOTAL PROJECT CAPITAL OUTLAY COSTS	\$ 613,013

Reviewed by
 District Program Manager:

[Signature]

 (Signature)

8/29/11

 (Date)

Approved by Project Manager:

[Signature]

 (Signature)

8/29/11

 (Date)

Phone Number: 209-941-1958

PSR-PR COST ESTIMATE



Dist-Co-Rte: 10-AMA-88
 PM: PM 3.1/4.4, 7.0/11.5
 EA: 10-0U2800 (1000020354)
 Program Code: 201.010

I. ROADWAY ITEMS

<u>Section 1 - Earthwork</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Roadway Excavation	0	CY		\$0	
Imported Borrow	0	CY		\$0	
Clearing & Grubbing	0	LS		\$0	
Develop Water Supply	0	LS		\$0	
Top Soil Reapplication				\$0	
Stepped Slopes and Slope				\$0	
Rounding (Contour Grading)				\$0	
			Subtotal Earthwork:		\$0
<u>Section 2 - Pavement Structural Section*</u>					
PCC Pvmt <u>Depth</u>	0	CY	\$0	\$0	
PCC Pvmt <u>Depth</u>	0	CY	\$0	\$0	
Hot Mix Asphalt (Type A)	0	Tons	\$0	\$0	
Shoulder Rumble Strip (AC, Ground- In Indentation) (394054)	21,650	LF	\$4.00	\$86,600	
Lean Concrete Base	0	CY	\$0	\$0	
Cement-Treated Base	0	CY	\$0	\$0	
Aggregate Base	0	CY	\$0	\$0	
Treated Permeable Base	0	CY	\$0	\$0	
Aggregate Subbase	0	CY	\$0	\$0	
Pavement Reinforcing Fabric	0	FT ²	\$0	\$0	
Edge Drains	0	FT	\$0	\$0	
Emulsified Asphalt Binder	0	Ton	\$0	\$0	
			Subtotal Structural Section:		\$86,600
<u>Section 3 - Drainage</u>					
Large Drainage Facilities	0	LS	\$0	\$0	
Storm Drains	0		\$0	\$0	
Pumping Plants	0		\$0	\$0	
Project Drainage (X-Drains, overside, etc.)	0		\$0	\$0	
AC Dike	0	FT	\$0	\$0	
Remove AC Dike	0	FT	\$0	\$0	
RCP	0	FT	\$0	\$0	
			Subtotal Drainage:		\$0

* Reference sketch showing typical pavement structural section elements of the roadway. Include (if available) T.I., R-Value and date when tests were performed.

PSR-PR COST ESTIMATE



Dist-Co-Rte: 10-AMA-88

PM: PM 3.1/4.4, 7.0/11.5

EA: 10-0U2800 (1000020354)

Program Code: 201.010

<u>Section 4 - Specialty Items</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Type "D" Pavement Markers	1,966	EA	\$2.50	\$4,915	
Street Sweeping (074041)	1	LS	\$1,000	\$1,000	
Construction Site Mgt (074016)	1	LS	\$15,000	\$15,000	
Prepare Water Pollution Control Program (074017)	1	LS	\$3,000	\$3,000	
Additional Water Pollution Control (066596)	1	LS	\$3,000	\$3,000	
Remove Pavement Markers	2,720	EA	\$2	\$5,440	
Resident Engineer Office (066105)	1	LS	\$3,000	\$3,000	
Maintaining Existing Traffic Management System Elements during Construction (860090)	1	LS	\$1,000	\$1,000	
Type "H" Pavement Markers	132	EA	\$2.50	\$330	
Type "A" Pavement Markers	622	EA	\$2.50	\$1,555	

Subtotal Specialty Items: \$38,240

Section 5 - Traffic Items

Modify Signal	0	LS	\$0	\$0	
Thermoplastic Traffic Stripe	47,284	FT	\$2.50	\$118,210	
Remove Traffic Stripe	47,284	FT	\$1	\$47,284	
Overhead Sign Structures	0	LS	\$0	\$0	
Roadside Signs	0	LS	\$0	\$0	
Construction Area Signs (120090)	1	LS	\$8,000	\$8,000	
Traffic Control Systems (120100)	1	LS	\$30,000	\$30,000	
Traffic Management Plan (066063)	1	LS	\$2,000	\$2,000	
Traffic Handling (CMS) (128650)	1	LS	\$6,000	\$6,000	
Temporary Detection System	0	LS	\$0	\$0	
Staging	0	LS	\$0	\$0	
Maintain Traffic (066070)	1	LS	\$12,000	\$12,000	
COZEEP (066062)	1	LS	\$36,000	\$36,000	
Caltrans Public Information Office	0	LS	\$0	\$0	

Subtotal Traffic Items: \$259,494

TOTAL ROADWAY ITEMS Sections 1 thru 5 \$384,334

PSR-PR COST ESTIMATE



Dist-Co-Rte: 10-AMA-88

PM: PM 3.1/4.4, 7.0/11.5

EA: 10-0U2800 (1000020354)

Program Code: 201.010

II. ROADSIDE ITEMS

<u>Section 6 Planting and Irrigation</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Highway Planting	0		\$0	\$0	
Replacement Planting	0		\$0	\$0	
Irrigation Modification	0		\$0	\$0	
Relocate Existing Irrigation	0		\$0	\$0	
Facilities	0		\$0	\$0	
Irrigation Corssovers	0		\$0	\$0	
	0		\$0	\$0	
	0	LS	\$0	\$0	
	0		\$0	\$0	
	0	LS	\$0	\$0	
				\$0	

Subtotal Planting and Irrigation Section: _____ \$0

Section 7: Roadside Management and Safety Section

Vegetation Control Treatments	0	LS	\$0	\$0
Gore Area Pavement	0	LS	\$0	\$0
Pavement beyond the gore area	0	LS	\$0	\$0
Miscellaneous Paving	0	LS	\$0	\$0
Errosion Control	0	LS	\$0	\$0
Slope Protection	0	LS	\$0	\$0
Side Slopes/Embankment Slopes	0	LS	\$0	\$0
Maintenance Vehicle Pullouts	0	LS	\$0	\$0
Off-freeway Access (gates, stairways, etc.)	0	LS	\$0	\$0
Roadside Facilities (Vista Points, Transit, Park & Ride)	0	LS	\$0	\$0
Relocating roadside facilities/features	0	LS	\$0	\$0
	0	LS	\$0	\$0
	0	LS	\$0	\$0
	0	LS	\$0	\$0

Subtotal Roadside Management and Safety Section: _____ \$0

TOTAL ROADSIDE ITEMS Sections 6 thru 7 _____ \$0

PSR-PR COST ESTIMATE



Dist-Co-Rte: 10-AMA-88
 PM: PM 3.1/4.4, 7.0/11.5
 EA: 10-0U2800 (1000020354)
 Program Code: 201.010

III. ROADWAY ADDITIONS

Section 8 - Minor Items

				<u>Item Cost</u>	<u>Section Cost</u>
	<u>\$384,334</u>	x	<u>0.10</u>	=	<u>\$38,433</u>
(Subtotal Sections 1 thru 7)			(5 to 10%)		

Minor Items: \$38,433

Section 9 - Roadway Mobilization

	<u>\$422,767</u>	x	<u>0.10</u>	=	<u>\$42,277</u>
(Subtotal Sections 1 thru 8)			(10%)		

Roadway Mobilization: \$42,277

Section 10 - Supplemental Work & Contingencies

Supplemental Work

	<u>\$422,767</u>	x	<u>0.10</u>	=	<u>\$42,277</u>
(Subtotal Sections 1 thru 8)			(5 to 10%)		

Contingencies

	<u>\$422,767</u>	x	<u>0.25</u>	=	<u>\$105,692</u>
(Subtotal Sections 1 thru 8)			(**0%)		

Supplemental Work & Contingencies: \$147,969

TOTAL ROADWAY ADDITIONS Sections 8 thru 10: \$228,679

TOTAL ROADWAY: \$613,013
 (Subtotal Sections 1 thru 10)

Estimate

Prepared by: Kam Luangrath Phone: (209) 948-3803 07/27/11
 (Print or Type Name) (Date)

Estimate

Checked by: ALLEN LAO Phone: (209) 948-3803 8/8/11
 (Print or Type Name) (Date)

**Use appropriate percentage per PDPM, Part 3 Chapter 20.

<http://www.dot.ca.gov/hq/oppd/pdpm/pdpm.htm> - pdpm

PSR-PR COST ESTIMATE



Dist-Co-Rte: 10-AMA-88

PM: PM 3.1/4.4, 7.0/11.5

EA: 10-0U2800 (1000020354)

Program Code: 201.010

II. STRUCTURE ITEMS

	STRUCTURE		
	No. 1	No. 2	No. 3
Bridge Name	_____	_____	_____
Structure Type	_____	_____	_____
Width (out to out) - (ft)	<u>0</u>	<u>0</u>	<u>0</u>
Span Length - (ft)	<u>0</u>	<u>0</u>	<u>0</u>
Total Area - ft ²	<u>0</u>	<u>0</u>	<u>0</u>
Footing Type (pile/spread)	_____	_____	_____
Cost Per ft ² (incl. 10% mobilization & 25% contingencies)	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
Total Cost for Structure	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
Other	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
* Add additional structures as necessary			
	SUBTOTAL STRUCTURES ITEMS		<u>\$0</u>
Railroad Related Costs (Not incl. in R/W Est)			<u>\$0</u>
	TOTAL STRUCTURES ITEMS		<u>\$0</u>

COMMENTS:

Estimate
 Prepared by: _____ Phone: _____
(Print or Type Name) (Date)

(If appropriate, attach additional pages as backup)

PSR-PR COST ESTIMATE



Dist-Co-Rte: 10-AMA-88
 PM: PM 3.1/4.4, 7.0/11.5
 EA: 10-0U2800 (1000020354)
 Program Code: 201.010

III. RIGHT OF WAY ITEMS

	Current Values (Future Use)	Escalation <u>Rates</u>	Escalated Values*
Acquisition, including excess lands and damages to remainder(s) and Goodwill	\$0	0.0%	\$0
Utility Relocation (State share)	\$0	0.0%	\$0
Clearance/Demolition	\$0	0.0%	\$0
RAP	\$0	0.0%	\$0
Title and Escrow Fees	\$0	0.0%	\$0
Construction Contract Work	\$0	0.0%	\$0
	<u>\$0</u>		
TOTAL RIGHT OF WAY**			<u>\$0</u>

ESCALLATED VALUE*

Date to which Values are Escalated: 0/0/00

* Escalated to assumed year of advertising.

** Current total value for use on Sheet 1

Estimate

Prepared by: Kam Luangrath Phone: (209) 948-3809 07/27/11
 (Print or Type Name) (Date)

(If appropriate, attach additional pages and backup including Right of Way Data Sheet and Environmental Mitigation and Compliance Cost Estimate Sheet).

D-10 TRAFFIC MANAGEMENT: DELIVERY- MEMO

To: Percy Maragos	From: Ovid P. Radovan D-10 Traffic Management	Date: 02/29/11
Cc: FILE, D-10 PIO	Phone: (209) 948-7149	

M *Re: 0U2800 / 10-0002-0354*

E *Attached is the Approved TMP Checklist, Lane Requirement Charts, and Table Z for the above mentioned project.*

S *Please include a copy of the TMP Checklist in the RE Book with all supporting Documentation.*

A *We request the following:*

- G
- E
- a. *Contractor shall work with RE/Inspector to request the necessary lane closures needed. Requests shall be made the week prior to the actual work. Inspector shall submit closure through the Lane Closure System (LCS) for our approval by Wednesday afternoon of the week prior.*
 - b. *All lane closures shall be called in by either the Contractor to the Traffic Management Center (TMC) when the closure begins (10-97), ends (10-98), or is canceled (10-22). The TMC can be reached 24-7 at (209) 948-7556 or 7557.*
 - c. *Use proper Traffic Control devices throughout the duration of the project as per Caltrans Standard Specifications.*

Please call if you have any questions regarding the attached information.

ATTACHMENT G

D-10 TRANSPORTATION MANAGEMENT PLAN CHECKLIST

Project No: 10 0002 0354
 Date Prepared: March 29, 2011

Prepared By: Ovid P. Radovan
 Requested By: Percy Maragos

Stage of Project (X box) PID PSR PR PS&E

Date Signed _____
 Date Signed _____
 Date Signed _____
 Date Signed _____

Co.-Rte.-P.M. AMA-88-3.1/4.4 & 7.0/11.5
 Location: West of the City of Jackson. From Jackson Creek Bridge to west of Martin Lane and from west of the junction of SR 104 to west of Ridge Road.

Description: Installation of centerline rumble strip along the no-passing zone and non-reflective markers along the passing zone.

1.0 Public Information Strategies

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

REQUIRED	RECOMMENDED	NOT APPLICABLE	BEES Item No.	COMMENTS	ITEM COST	REQUIRED IN SPEC.
X				RE to hand-deliver to business/residences.		
	X			See comments below.		
X			068063	Designer to add to budget if public meeting is needed.		
	X					
	X					
	X					
X				Designer to verify impacted groups.		
	X			Web page could be linked to local City website.		
X			068063	Items 1.1 to 1.11 to be handed to Caltrans.	12K	
	X					
	X					

2.0 Traveler Information Strategies

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

		X				
X			128650	See comments below	\$5.4K	X
		X	120690			
	X		861985	As required.		
		X	860520			
		X	068064			
		X				
		X				
X				Same as Item 1.9.		
		X				

3.0 Incident Management

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

		X	066062	See comments below		
		X	068065			
X			068070	Existing to remain & for provide new signs.		
X				RE to notify for incident & status closure.		
		X				
X				TMC will contact TMT as needed.		
		X				
		X				

4.0 Construction Strategies

- 4.1 Delay damage clause
- 4.2 Night work
- 4.3 Weekend Work
- 4.4 Extended Weekend Closures
- 4.5 Planned Lane Closures
- 4.6 Planned Ramp Closures/Connector Closure
- 4.7 Total Facility Closure
- 4.8 Project Phasing
- 4.9 Truck Traffic Restrictions
- 4.10 Reduced Lane Widths
- 4.11 Temporary K-Rail
- 4.12 Temporary Traffic Screens
- 4.13 Reduced Speed Zones
- 4.14 Traffic Control Improvements

		X				
		X				
		X				
		X				
X				Per Lane Closure Charts		X
		X				
		X				
X				As per stage construction if any.		
		X				
X				Per drawings/data sheet if any.		
		X	129000			
		X	129150			
		X				
X				As necessary.		

Chart No. 1 Conventional Highway Lane Requirements																									
County: Amador					Route/Direction: 88/ Westbound & Eastbound										PM: 3.1/4.4 and 7.0/ 11.5										
Closure Limits: West of the City of Jackson. From Jackson Creek Bridge to west of Martin Lane and from west of junction SR 104 to west of Ridge Road.																									
FROM HOUR TO HOUR																									
	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays									R	R	R	R	R	R	R	R	R	R							
Fridays									R	R	R	R	R	R	R										
Saturdays																									
Sundays																									
Legend:																									
<input type="checkbox"/> R Provide at least one through traffic lane, not less than 10 feet in width, for use by both directions of travel (Reversing Control)																									
<input type="checkbox"/> Work permitted within project right of way where shoulder or lane closure is not required.																									
REMARKS:																									
1. See Lane Closure Restriction for Designated Legal Holidays and Special Days table in Maintain Traffic of these special provisions for additional closure restrictions.																									
2. Closures of local roads will require City/County concurrence.																									

Note to Design:

Above window must be re-evaluated or updated if actual construction takes place later than 2012



3/29/2011

Lane Closure Restriction for Designated Legal Holidays and Special Days

Thu	Fri	Sat	Sun	Mon	Tues	Wed	Thu	Fri	Sat	Sun
x	H XX	XX	XX							
	SD XX									
x	XX	H XX	XX							
		SD XX								
	x	XX	H XX	XX						
			SD XX	XXX						
	x	XX	XX	H XX	XX					
	x	XX	XX	SD XX	XXX					
				x	H XX	XXX				
				x	SD XX					
					x	H XX	XXX			
						SD XX				
						x	H XX	XX	XX	XX
							SD XX			

Legends:

	Refer to lane closure charts
x	The full width of the traveled way shall be open for use by public traffic after 6:00 am.
xx	The full width of the traveled way shall be open for use by public traffic.
xxx	The full width of the traveled way shall be open for use by public traffic until 9:00 am.
H	Designated Legal Holiday
SD	Special Day