05 – Mon, SBT - 101 – 73.0/96.8, 0.0/7.5
EA 05-1F900K – PI 0514000073 – PPNO 2571
SHOPP 20.xx.201.235
May/2015

Small Capital Value Project
Project Initiation Document
To
Request Programming in the 2016 SHOPP

PROJECT LOCATION: In Monterey and San Benito Counties from 0.4 miles north of North Gonzales OC to the Santa Clara County line.

APPROVAL RECOMMENDED:

Dennis Reeves, *DISTRICT PROGRAM MANAGER*

APPROVAL RECOMMENDED:

Richard Rosales, *PROJECT MANAGER*

APPROVED:

Timothy M. Gubbins, *DISTRICT 5 DIRECTOR*

6/25/15
DATE

This project 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.

Wafaa Siqueiros, *REGISTERED CIVIL ENGINEER*

6/15/15
DATE

REGISTERED PROFESSIONAL ENGINEER
WAFAA SIQUEIROS
No. C83867
Exp. 10-30-2015
CIVIL
STATE OF CALIFORNIA

1. INITIATING OFFICE/INITIATOR

The Program Manager for the Roadside Safety Improvement Program has established that a project is needed that meets the qualification for the 20.xx.201.235 Program.

This project initiation document provides conceptual approval of the proposal and a recommendation to program the project into the 2016 State Highway Operation and Protection Program. A Project Report will serve as final approval of the proposal.

2. PURPOSE AND NEED

Purpose:
The roadsides of Route 101 have not been updated for many years and the Department has placed greater emphasis on maintenance worker safety and roadside maintainability. This project will help correct identified roadside deficiencies and create a safer environment for maintenance personnel and the public.

Need:
Identified areas within the project limits frequently expose maintenance workers to high speed traffic. The maintenance exposure to traffic will be reduced by correcting the identified deficiencies. Some areas of concern are weed growth in gore areas and lack of maintenance vehicle pullouts needed to safely maintain state owned facilities.

3. DEFICIENCY SUMMARY

Deficiencies include lack of maintenance vehicle pullouts, weed growth in gore areas and other narrow areas, lack of fencing and lighting around a maintenance storage area, pull boxes located in gores, drainage issues adjacent to Route 101, lack of a changeable message sign (CMS), and lack of safe access to electrical cabinets.

4. PROJECT PROPOSAL

This project will improve safety for maintenance workers and the traveling public by constructing features shown on Attachment C. These features include vehicle maintenance pullouts, gore paving, drainage improvements, fencing, utility relocation, and installation of a CMS. The Project Development Team will coordinate with the City of Salinas, Prunedale Community, Monterey County, and San Benito County to determine the most appropriate materials and colors to use as vegetation control in gore areas, narrow areas and the contrasting surface treatment beyond the gore. Constructing these features will reduce the risk for maintenance personnel working on the roadside and will reduce the time workers and equipment must be on the roadside. The traveling public will experience less shoulder and lane closures.

The project will meet all design standards and will not need design exceptions.

R/W (Right of Way):
A temporary construction easement will be required for the parcel located at northbound Route 101 and Chittenden Road. A state owned sub-panel will be removed from a utility pole that is located on private property. The sub-panel will then be moved to an existing utility pole located in State right of way.

Disposal Site:
No hazardous waste impacts are expected with this project.

Utilities:
One electrical cabinet will be relocated to an area with safer access. It has been proposed to move a state owned sub-panel from one utility pole to another. Since the utility poles are not state owned, coordination with the utility owner will be required.

Environmental:
According to the Preliminary Environmental Analysis Report dated March 26, 2015, the anticipated environmental document for this project is a Mitigated Negative Declaration/Categorical Exclusion. This document level has been selected based on potential biological impacts and a site with historic-period mission-themed architectural and landscape resources.

5. FUNDING/PROGRAMMING

It has been determined that this project is eligible for federal-aid funding.

The current capital construction cost estimate is $2,205,000, and the current capital Right of Way estimate is $393,606.

Capital Outlay Support and Project Estimates

Fund Source	Fiscal Year Estimate						
20.XX.201.235	Prior	2016/17	2017/18	2018/19	2019/20	Future	Total
Component	In thousands of dollars ($1,000)						
R/W Capital				456			456
Construction Capital					2,814		2,814
PA&ED		715					715
PS&E				1,090			1,090
R/W Support				175			175
Construction Support					1,044		1,044
Total Support		715		1,265	1,044		3024
Total Project Cost		715		1,721	3,858		6,294

Note: All costs X $1,000. Support categories are the same as those identified by SB 45. Support Costs escalated at 3%. Construction Capital escalated at 5% per year. Support Cost ratio: 93 % (All Support Costs divided by the sum of the escalated Construction Capital and escalated R/W Capital.

Support Cost Assumptions: The project support budget (in dollars) was developed from the accepted workplan (in hours by task) based upon the "Rate Matrix" set for the Cost Centers with Source Unit by District as loaded into Project Resource and Schedule Management (PRSM) as of April 20, 2015.

Workplan Assumptions, Constraints

- The project will be programmed in the 2016 SHOPP cycle.
- The project will be completed within the plan in the programming documents. If there are changes to the scope, schedule, or cost a Project Change Request (PCR) may be needed to document the changes.
- The workplan will be monitored and controlled by the Project Development Team (PDT) through-out the project's lifecycle.

- Project Development Team (PDT) members will identify and communicate changes (assumptions, constraints, risks, scope, schedule and / or budget) to the appropriate Task Manager and Project Manager immediately so that the Team may assess potential actions, impacts and categorize (avoid, transfer, mitigate, exploit, share, enhance or accept) the proposed change to the project. Accepted changes to the initial scope of work whether they are an increase or a decrease will be assessed by the PDT and the workplan will be re-examined as needed to adjust the budget in hours and/or dollars to address the accepted changes.

6. SCHEDULE

Project Milestones		Scheduled Delivery Date (Month/Day/Year)
PROGRAM PROJECT	M015	07/01/16
BEGIN ENVIRONMENTAL	M020	10/02/16
PA & ED	M200	10/01/18
PS&E TO DOE	M377	03/02/20
RIGHT OF WAY CERTIFICATION	M410	06/01/20
READY TO LIST	M460	06/15/20
AWARD	M495	11/18/20
APPROVE CONTRACT	M500	12/02/20
CONTRACT ACCEPTANCE	M600	07/30/21
END PROJECT	M800	07/01/22

7. RISKS

The primary risks for this project involve:

- Unforeseen utility impacts that may result in time delays or modification of the project scope.
- Increase in the project scope during the development of the project PS&E.
- Project delays due to FTIP programming delays.

8. FHWA COORDINATION

This project is considered to be an Assigned Project in accordance with the current Federal Highway Administration (FHWA) and Department of Transportation (Caltrans) Joint Stewardship and Oversight Agreement.

9. ATTACHMENTS

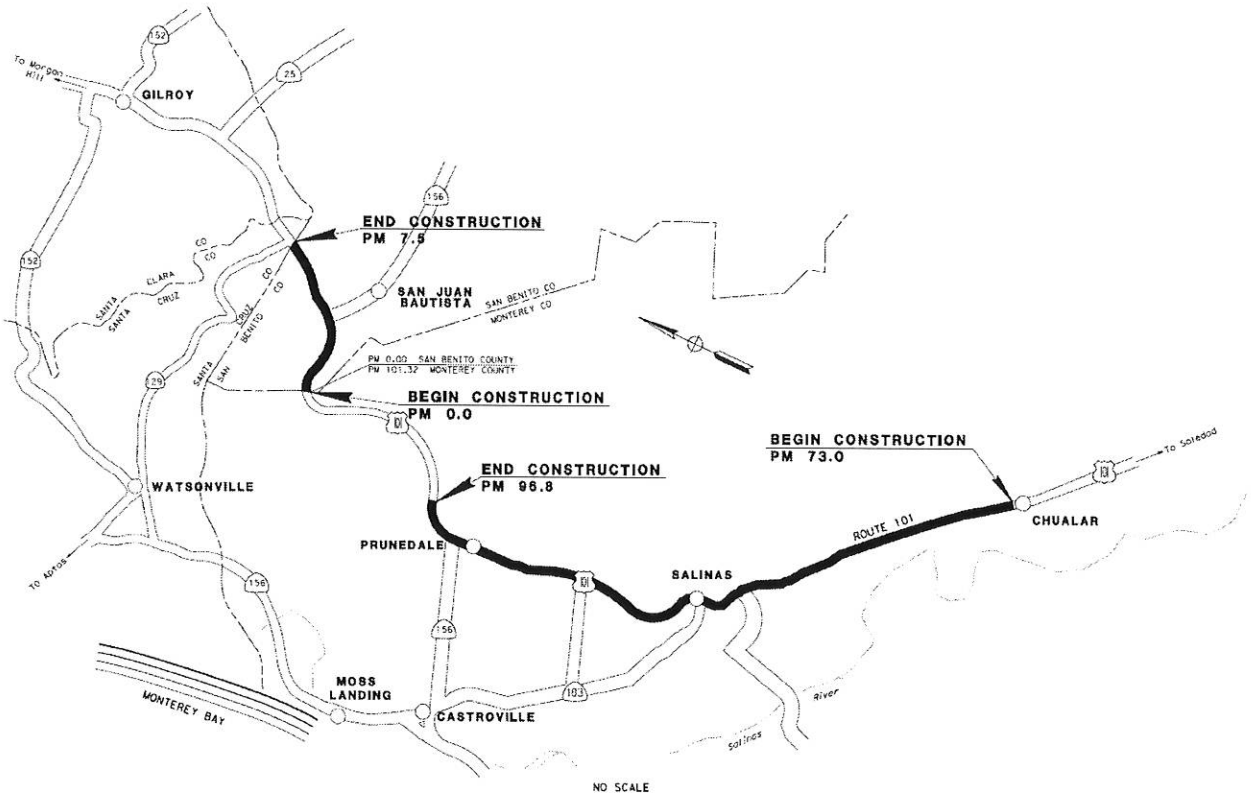
A. Vicinity Map
B. Cost Estimate
C. Scope of Work
D. Preliminary Layouts
E. Preliminary Environmental Analysis Report (PEAR)
F. Storm Water Data Report

10. DISTRIBUTION LIST

Division / Program / Office

HQ Division of Design	Design Report Routing	1
HQ Program Advisor	HQ Program Advisor	1
HQ Division of Engineering Serv.	Division of Engineering Services	5
HQ Transportation Programming	Rick Guevel	1
HQ Environmental	Bob Pavlik	1
HQ SHOPP Program Advisor	Suzy Namba	1
Project Manager	Richard Rosales	1
Design Manager	Scott Shaver	2
Resident Engineer	Resident Engineer	1
District Maintenance	Lance Gorman	1
District Maintenance	Kelly Mcclain	1
District Traffic Management	Jacques Van Zeventer	1
District Traffic Safety	Mark Ballentine	1
District Traffic Safety	Steve Talbert	1
Region Traffic Design	Mohammed Qatami	1
District Traffic Operations	Paul McClintic	1
Region Materials	Doug Lambert	1
Region Environmental	Susan Schilder	1
Region Landscape	Dennis Reeves	1
Region Right of Way	Connie Shellooe	1
District Planning	Claudia Espino	1
PPM	Linda Araujo	1
Surveys	Jeremy Villegas	1
Surveys	Bob Fredricks	1
District Records (electronic copy)	Pat Duty	0

Mon-101-73.0/96.8, SBt-101-0.0/7.5
EA: 05-1F900
ID: 0514000073



VICINITY MAP

ATTACHMENT A

PID Cost Estimate

Project ID: 0514000073

Type of Estimate : PID
Program Code : SHOPP
Project Limits : Mon-101-73.0/96.8, SBt-101-0.0/7.5
Description: Roadside Safety Improvements
Scope : Pave gores, add MVPs, fencing and light installation for equipment storage, electrical cabinet relocation, pullbox relocation, install CMS, and service relocation
Alternative :

	Current Cost	Escalated Cost
ROADWAY ITEMS	$ 2,204,500	
STRUCTURE ITEMS	$ -	$ -
SUBTOTAL CONSTRUCTION COST	$ 2,204,500	$ -
RIGHT OF WAY	$ -	$ -
TOTAL CAPITAL OUTLAY COST	$ 2,205,000	$ -
PR/ED SUPPORT	$ -	$ -
PS&E SUPPORT	$ -	$ -
RIGHT OF WAY SUPPORT	$ -	$ -
CONSTRUCTION SUPPORT	$ -	$ -
TOTAL CAPITAL OUTLAY SUPPORT COST*	$ -	$ -
TOTAL PROJECT COST	$ 2,205,000	$ -

If Project has been programmed enter Programmed Amount $ -

Date of Estimate (Month/Year) Month / Year 5 / 2015

Estimated Date of Construction Start (Month/Year) 1 / 2020

Number of Working Days 120 Working Days

Estimated Mid-Point of Construction (Month/Year) Month / Year

Number of Plant Establishment Days Days

Estimated Project Schedule

PID Approval
PA/ED Approval
PS&E
RTL
Begin Construction

Approved by Project Manager

Project Manager — Date 6/11/15 — (805) 549-3792 Phone

ATTACHMENT B

I. ROADWAY ITEMS SUMMARY

	Section		Cost
1	Earthwork	$	277,400
2	Pavement Structural Section	$	897,400
3	Drainage	$	75,000
4	Specialty Items	$	49,900
5	Environmental	$	105,600
6	Traffic Items	$	102,100
7	Detours	$	-
8	Minor Items	$	-
9	Roadway Mobilization	$	150,800
10	Supplemental Work	$	75,400
11	State Furnished	$	30,000
12	Contingencies	$	440,900
13	Overhead	$	-
	TOTAL ROADWAY ITEMS	**$**	**2,204,500**

Estimate Prepared By — Wafaa Siqueiros, TE — 6/11/15 (Date) — (559) 243-3406 (Phone)

Estimate Reviewed By — Scott Shaver, Senior TE — 6-11-15 (Date) — (559) 230-3118 (Phone)

By signing this estimate you are attesting that you have discussed your project with all functional units and have incorporated all their comments or have discussed with them why they will not be incorporated.

SECTION 1: EARTHWORK

Item code		Unit	Quantity		Unit Price ($)			Cost
160101	Clearing & Grubbing	LS		x		=	$	-
170101	Develop Water Supply	LS		x		=	$	-
190101	Roadway Excavation	CY	6,254	x	38.00	=	$	237,652
190103	Roadway Excavation (Type Y) ADL	CY		x		=	$	-
190105	Roadway Excavation (Type Z-2) ADL	CY		x		=	$	-
192037	Structure Excavation (Retaining Wall)	CY		x		=	$	-
193013	Structure Backfill (Retaining Wall)	CY		x		=	$	-
193031	Pervious Backfill Material (Retaining Wall)	CY		x		=	$	-
194001	Ditch Excavation	CY		x		=	$	-
198010	Impored Borrow	CY	348	x	114.00	=	$	39,672
198007	Imported Material (Shoulder Backing)	TON		x		=	$	-
XXXXXX	Some Item			x		=	$	-

TOTAL EARTHWORK SECTION ITEMS	$	277,400

SECTION 2: PAVEMENT STRUCTURAL SECTION

Item code		Unit	Quantity		Unit Price ($)			Cost
150771	Remove Asphalt Concrete Dike	LF	815	x	10.00	=	$	8,150
150860	Remove Base and Surfacing	CY		x		=	$	-
153103	Cold Plane Asphalt Concrete Pavement	SQYD		x		=	$	-
153130	Remove Concrete Curb	CY	2,622	x	20.00	=	$	52,440
250401	Class 4 Aggregate Subbase	CY		x		=	$	-
260203	Class 2 Aggregate Base	CY	1,450	x	65.00	=	$	94,250
290201	Asphalt Treated Permeable Base	CY		x		=	$	-
365001	Sand Cover	TON		x		=	$	-
374002	Asphaltic Emulsion (Fog Seal Coat)	TON		x		=	$	-
374492	Asphaltic Emulsion (Polymer Modified)	TON		x		=	$	-
3750XX	Screenings (Type XX)	TON		x		=	$	-
377501	Slurry Seal	TON		x		=	$	-
390095	Replace Asphalt Concrete Surfacing	CY		x		=	$	-
390132	Hot Mix Asphalt (Type A)	TON	151	x	228.00	=	$	34,428
390136	Minor Hot Mix Asphalt	TON		x		=	$	-
390137	Rubberized Hot Mix Asphalt (Gap Graded)	TON		x		=	$	-
393003	Geosynthetic Pavement Interlayer	SQYD		x		=	$	-
39405X	Shoulder Rumber Strip *(HMA, Type XX Inden*	STA		x		=	$	-
394071	Place Hot Mix Asphalt Dike	LF		x		=	$	-
394090	Place Hot Mix Asphalt (Misc. Area)	SQYD		x		=	$	-
397005	Tack Coat	TON		x		=	$	-
401000	Concrete Pavement	CY		x		=	$	-
401108	Replace Concrete Pavement (Rapid Strength	CY		x		=	$	-
404092	Seal Pavement Joint	LF		x		=	$	-
404094	Seal Longitudinal Isolation Joint	LF		x		=	$	-
413112A	Repair Spalled Joints (Polyester Grout)	SQYD		x		=	$	-
413115	Seal Existing Concrete Pavement Joint	LF		x		=	$	-
420102	Groove Existing Concrete Pavement	SQYD		x		=	$	-
420201	Grind Existing Concrete Pavement	SQYD		x		=	$	-
731502	Minor Concrete (Misc. Const)	CY		x		=	$	-
731530	Minor Concrete (Textured Paving)	SQFT	112,035	x	6.32	=	$	708,061
XXXXXX	Some Item			x		=	$	-

TOTAL STRUCTURAL SECTION ITEMS	$	897,400

SECTION 3: DRAINAGE

Item code		Unit	Quantity		Unit Price ($)			Cost
150206	Abandon Culvert	LF		x		=	$	-
150805	Remove Culvert	LF		x		=	$	-
150820	Modify Inlet	EA		x		=	$	-
152430	Adjust Inlet	LF		x		=	$	-
155003	Cap Inlet	EA		x		=	$	-
193114	Sand Backfill	CY		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		=	$	-
721420	Concrete (Ditch Lining)	CY		x		=	$	-
721430	Concrete (Channel Lining)	CY		x		=	$	-
729010	Rock Slope Protection Fabric	SQYD		x		=	$	-
750001	Miscellaneous Iron and Steel	LB		x		=	$	-
XXXXXX	Additional Drainage	LS		x		=	$	-
XXXXXX	Modify Irrigation System	LS	1	x	75,000.00	=	$	75,000

TOTAL DRAINAGE ITEMS $ 75,000

SECTION 4: SPECIALTY ITEMS

Item code		Unit	Quantity		Unit Price ($)			Cost
070012	Progress Schedule (Critical Path Method)	LS		x		=	$	-
150662	Remove Metal Beam Guard Railing	LF		x		=	$	-
150668	Remove Terminal Systems	EA		x		=	$	-
1532XX	Remove Barrier *(Insert Type)*	LF		x		=	$	-
153250	Remove Sound Wall	SQFT		x		=	$	-
190110	Lead Compliance Plan	LS		x		=	$	-
49XXXX	CIDH Concrete Piling *(Insert Diameter)*	LF		x		=	$	-
510060	Structural Concrete (Retaining Wall)	CY	35	x	837.00	=	$	29,295
510133	Class 2 Concrete (Retaining Wall)	CY		x		=	$	-
510524	Minor Concrete (Sound 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		=	$	-
518002	Sound Wall (Masonry Block)	SQFT		x		=	$	-
520103	Bar Reinf. Steel (Retaining Wall)	LB		x		=	$	-
800360	Chain Link Fence (TYPE CL-6)	LF	977	x	21.00	=	$	20,517
832001	Metal Beam Guard Railing	LF		x		=	$	-
839310	Double Thrie Beam Barrier	LF		x		=	$	-
839521	Cable Railing	LF		x		=	$	-
83954X	Transition Railing *(Insert Type)*	EA		x		=	$	-
8395XX	Terminal System (Type CAT)	EA		x		=	$	-
8395XX	Alternative Flared Terminal System	EA		x		=	$	-
8395XX	End Anchor Assembly (*Insert Type*)	EA		x		=	$	-
839561	Rail Tensioning Assembly	EA		x		=	$	-
839XXX	Crash Cushion *(Insert Type)*	EA		x		=	$	-
83XXXX	Concrete Barrier *(Insert Type)*	LF		x		=	$	-
XXXXXX	Some Item			x		=	$	-

TOTAL SPECIALTY ITEMS $ 49,900

SECTION 5: ENVIRONMENTAL

5A - ENVIRONMENTAL MITIGATION

Item code		Unit	Quantity		Unit Price ($)		Cost
	Biological Mitigation	LS		x		= $	-
071325	TEMPORARY REINFORCED SILT FENCE	LF		x		= $	-
071325	Temporary Fence (Type ESA)						

Subtotal Environmental $ -

5B - LANDSCAPE AND IRRIGATION

Item code		Unit	Quantity		Unit Price ($)		Cost
200001	Highway Planting	LS		x		= $	-
20XXXX	XXX" (*Insert Type*) Conduit *(Use for*	LF		x		= $	-
20XXXX	Extend XXX" *(Insert Type)* Conduit	LF		x		= $	-
201700	Imported Topsoil	CY		x		= $	-
2030XX	Erosion Control (Type __)	SQYD		x		= $	-
203021	Fiber Rolls	LF		x		= $	-
203026	Move In/ Move Out (Erosion Control)	EA		x		= $	-
204099	Plant Establishment Work	LS		x		= $	-
204101	Extend Plant Establishment (X Years)	LS		x		= $	-
208000	Irrigation System	LS		x		= $	-
208304	Water Meter	EA		x		= $	-
209801	Maintenance Vehicle Pullout	EA		x		= $	-
XXXXXX	Erosian Control	LS	1	x	80,000.00	$	80,000

Subtotal Landscape and Irrigation $ *80,000*

5C - NPDES

Item code		Unit	Quantity		Unit Price ($)		Cost
074016	Construction Site Management	LS		x		= $	-
074017	Prepare WPCP	LS	1	x	1,300.00	= $	1,300
074019	Prepare SWPPP	LS		x		= $	-
074023	Temporary Erosion Control	SQYD		x		= $	-
074027	Temporary Erosion Control Blanket	SQYD		x		= $	-
074028	Temporary Fiber Roll	LF		x		= $	-
074032	Temporary Concrete Washout Facility	EA		x		= $	-
074033	Temporary Construction Entrance	EA		x		= $	-
074035	Temporary Check Dam	LF		x		= $	-
074037	Move In/ Move Out (Temporary Erosion Cont	EA		x		= $	-
074038	Temp. Drainage Inlet Protection	EA	30	x	750.00	= $	22,500
074041	Street Sweeping	LS		x		= $	-
074042	Temporary Concrete Washout (Portable)	LS	1	x	1,800.00	= $	1,800
XXXXXX	Some Item						

Supplemental Work for NPDES

(These costs are not accounted in total here but under Supplemental Work on sheet 7 of 11).

066595	Water Pollution Control Maintenance Sharing	LS		x		= $	-
066596	Additional Water Pollution Control**	LS		x		= $	-
066597	Storm Water Sampling and Analysis***	LS		x		= $	-
XXXXXX	Some Item						

Subtotal NPDES (Without Supplemental Work) $ *25,600*

*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 $ 105,600

SECTION 6: TRAFFIC ITEMS

6A - Traffic Electrical

Item code		Unit	Quantity		Unit Price ($)			Cost
150760	Remove Sign Structure	EA		x		=	$	-
151581	Reconstruct Sign Structure	EA		x		=	$	-
152641	Modify Sign Structure	EA		x		=	$	-
5602XX	Furnish Sign Structure	LB		x		=	$	-
5602XX	Install Sign Structure	LB		x		=	$	-
56XXXX	XXX" CIDHC Pile (Sign Foundation)	LF		x		=	$	-
860090	Maintain Existing Traffic Management	LS		x		=	$	-
860810	Inductive Loop Detectors	EA		x		=	$	-
86055X	Lighting & Sign Illumination	LS		x		=	$	-
8607XX	Interconnection Facilities	LS		x		=	$	-
8609XX	Traffic Monitoring Stations	LS		x		=	$	-
860XXX	Signals & Lighting	LS		x		=	$	-
8611XX	Ramp Metering System (Location X)	LS		x		=	$	-
8611XX	Ramp Metering System (Location X)	LS		x		=	$	-
86XXXX	Fiber Optic Conduit System	LS		x		=	$	-
860532	Changeable Message Sign System	LS	1	x	60,000.00	=	$	60,000

Subtotal Traffic Electrical $ *60,000*

6B - Traffic Signing and Striping

Item code		Unit	Quantity		Unit Price ($)			Cost
120090	Construction Area Signs	LS	1	x	2,000.00	=	$	2,000
141103	Remove Yellow Thermoplastic Traffic Stripe (	LF	60	x	0.24	=	$	14
150714	Remove Thermoplastic Traffic Stripe	LF	60	x	0.21	=	$	13
150722	Remove Pavement Marker	EA	4	x	5.70	=	$	23
150742	Remove Roadside Sign	EA	34	x	115.00	=	$	3,910
152320	Reset Roadside Sign	EA		x		=	$	-
152390	Relocate Roadside Sign	EA		x		=	$	-
566011	Roadside Sign (One Post)	EA	3	x	290.00	=	$	870
566012	Roadside Sign (Two Post)	EA	34	x	650.00	=	$	22,100
560249	Furnish Single Sheet Aluminum Sign ((0.080"	SQFT	638	x	12.40	=	$	7,911
560XXX	Install Sign Panels	SQFT		x		=	$	-
850111	Pavement Marker (Retroreflective)	EA	4	x	7.50	=	$	30
840560	Thermoplastic Traffic Stripe (Sprayable)	LF	60	x	2.60	=	$	156

Subtotal Traffic Signing and Striping $ *37,027*

6C - Stage Construction and Traffic Handling

Item code		Unit	Quantity		Unit Price ($)			Cost
120100	Traffic Control System	LS		x		=	$	-
120120	Type III Barricade	EA		x		=	$	-
120143	Temporary Pavement Delineation	LF		x		=	$	-
12016X	Channelizer	EA		x		=	$	-
128650	Portable Changeable Message Signs	EA	1	x	5,000.00	=	$	5,000
129000	Temporary Railing (Type K)	LF		x		=	$	-
129100	Temp. Crash Cushion Module	EA		x		=	$	-
129099A	Traffic Plastic Drum	EA		x		=	$	-
839603A	Temporary Crash Cushion (ADIEM)	EA		x		=	$	-
XXXXXX	Some Item							

Subtotal Stage Construction and Traffic Handling $ *5,000*

TOTAL TRAFFIC ITEMS $ **102,100**

SECTION 7: DETOURS

Include constructing, maintaining, and removal

Item code		Unit	Quantity		Unit Price ($)		Cost
0713XX	Temporary Fence (Type X)	LF		x		= $	-
07XXXX	Temporary Drainage	LS		x		= $	-
120143	Temporary Pavement Delineation	LF		x		= $	-
1286XX	Temporary Signals	EA		x		= $	-
129000	Temporary Railing (Type K)	LF		x		= $	-
190101	Roadway Excavation	CY		x		= $	-
198001	Imported Borrow	CY		x		= $	-
198050	Embankment	CY		x		= $	-
250401	Class 4 Aggregate Subbase	CY		x		= $	-
260201	Class 2 Aggregate Base	CY		x		= $	-
390132	Hot Mix Asphalt (Type A)	TON		x		= $	-
XXXXXX	Some Item	LS		x		= $	-

TOTAL DETOURS	$	-

SUBTOTAL SECTIONS 1-7 $ 1,507,400

SECTION 8: MINOR ITEMS

8A - Americans with Disabilities Act Items							
ADA Items				0.0%		$	-
8B - Bike Path Items							
Bike Path Items				0.0%		$	-
8C - Other Minor Items							
Other Minor Items				0.0%		$	-
Total of Section 1-7	$	1,507,400	x	0.0%	=	$	-

TOTAL MINOR ITEMS	$	-

SECTIONS 9: MOBILIZATION

Item code								
999990	Total Section 1-8	$	1,507,400	x	10%	= $	150,740	

TOTAL MOBILIZATION	$	150,800

SECTION 10: SUPPLEMENTAL WORK

Item code		Unit	Quantity		Unit Price ($)		Cost
066015	Federal Trainee Program	LS		x		= $	-
066063	Traffic Management Plan - Public Informati	LS		x		= $	-
066090	Maintain Traffic	LS		x		= $	-
066094	Value Analysis	LS		x		= $	-
066204	Remove Rock & Debris	LS		x		= $	-
066222	Locate Existing Cross-Over	LS		x		= $	-
066670	Payment Adjustments For Price Index Fluct	LS		x		= $	-
066700	Partnering	LS		x		= $	-
066866	Operation of Existing Traffic Management S	LS		x		= $	-
066920	Dispute Review Board	LS		x		= $	-
XXXXXX	Some Item			x		= $	-

*Cost of **NPDES** Supplemental Work specified in Section 5C* = $ -

Total Section 1-8	$	1,507,400		5%	= $	75,370	

TOTAL SUPPLEMENTAL WORK	$	75,400

SECTION 11: STATE FURNISHED MATERIALS AND EXPENSES

Item code		Unit	Quantity		Unit Price ($)		Cost
066063	Public Information	LS	1	x	6,000.00	=	$6,000
066105	RE Office	LS	1	x	24,000.00	=	$24,000
066803	Padlocks	LS		x		=	$0
066838	Reflective Numbers and Edge Sealer	LS		x		=	$0
066901	Water Expenses	LS		x		=	$0
066062A	COZEEP Expenses	LS		x		=	$0
06684X	Ramp Meter Controller Assembly	LS		x		=	$0
06684X	TMS Controller Assembly	LS		x		=	$0
06684X	Traffic Signal Controller Assembly	LS		x		=	$0
XXXXXX	Some Item						

Total Section 1-8	$	1,507,400	0%	= $	-

TOTAL STATE FURNISHED	$30,000

SECTION 12: TIME-RELATED OVERHEAD

Estiamted Time-Releated Overhead (TRO) Percentage (0% to 10%) = 5%

Item code		Unit	Quantity		Unit Price ($)		Cost
070018	Time-Related Overhead	WD	120	X	0	=	$0

TOTAL TIME-RELATED OVERHEAD	$0

SECTION 13: CONTINGENCY

(Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total Section 1-11	$	1,763,600	x	25%	=	$440,900

TOTAL CONTINGENCY	$440,900

05-1F900 Requested Improvements

Rte 101, Monterey County

Begin Post Mile (Approximate)	End Post Mile (Approximate)	Side of Hwy	Location Description/Comments
73.00	96.80	Both	Pave all unpaved gores
76.63	76.71	SB	Fence area for equipment parking and add lighting between frontage and SB lanes
77.90	78.00	SB	Drainage issues
79.00	79.30	NB	Drainage issues
80.54		NB	CMS
82.55		SB	Pumphouse MVP-1
85.65		SB	MVP-3 for service cabinet
85.85		SB	MVP-2 for landscape pump
86.16		NB	MVP-4 on NB offramp
86.91		SB	MVP-5 on SB offramp
87.96		SB	Relocate electrical cabinet to mainline within CT R/W
R89.34		SB	Relocate electrical cabinet to left side of SB offramp and add MVP-6

05-1F900 Requested Improvements

Rte 101, San Benito County

Begin Post Mile (Approximate)	End Post Mile (Approximate)	Side of Hwy	Location Description/Comments
All locations		Both	Pave Gores
1.08	1.17	Both	Pave by railing
1.63		Median	Close median between Rocks Rd and Cannon Rd, it's currently used as a turnaround
1.98		SB	MVP-8 for flashers on SB shoulder
1.97		NB	MVP-7 for CMS
2.86		SB	Remove Pullbox from gore between Hwy 101 and Hwy 156
2.91		SB	Remove Pullbox from gore between Hwy 101 and Hwy 156
2.82		NB	Remove Pullbox from gore between NB Hwy 101 and offramp to Hwy 156
2.87		SB	Pave inside shoulder drain?
4.93	4.96	NB	Move pole mounted service off of private property to state Right of Way

ATTACHMENT C

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SBT	101	73.0/96.8 0.0/7.5		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
No.
Exp.
CIVIL
STATE OF CALIFORNIA

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ROUTE 101 / CHUALAR ROAD

LAYOUT

L-1

ATTACHMENT D

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CALCULATED-DESIGNED BY: MICHAEL DAY
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REVISED BY
DATE REVISED

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09-23-14 TIME PLOTTED => 12:49

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SBT	101	73.0/96.8 0.0/7.5		

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ROUTE 101 / MAIN ST

LAYOUT

L-2

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UNIT 1464

PROJECT NUMBER & PHASE 0514000073K

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SEE SHEET 2

ROUTE 101 / MAIN ST

LAYOUT
L-3

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UNIT 1464

PROJECT NUMBER & PHASE 0514000073K

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05	Mon,SBT	101	73.0/96.8 0.0/7.5		

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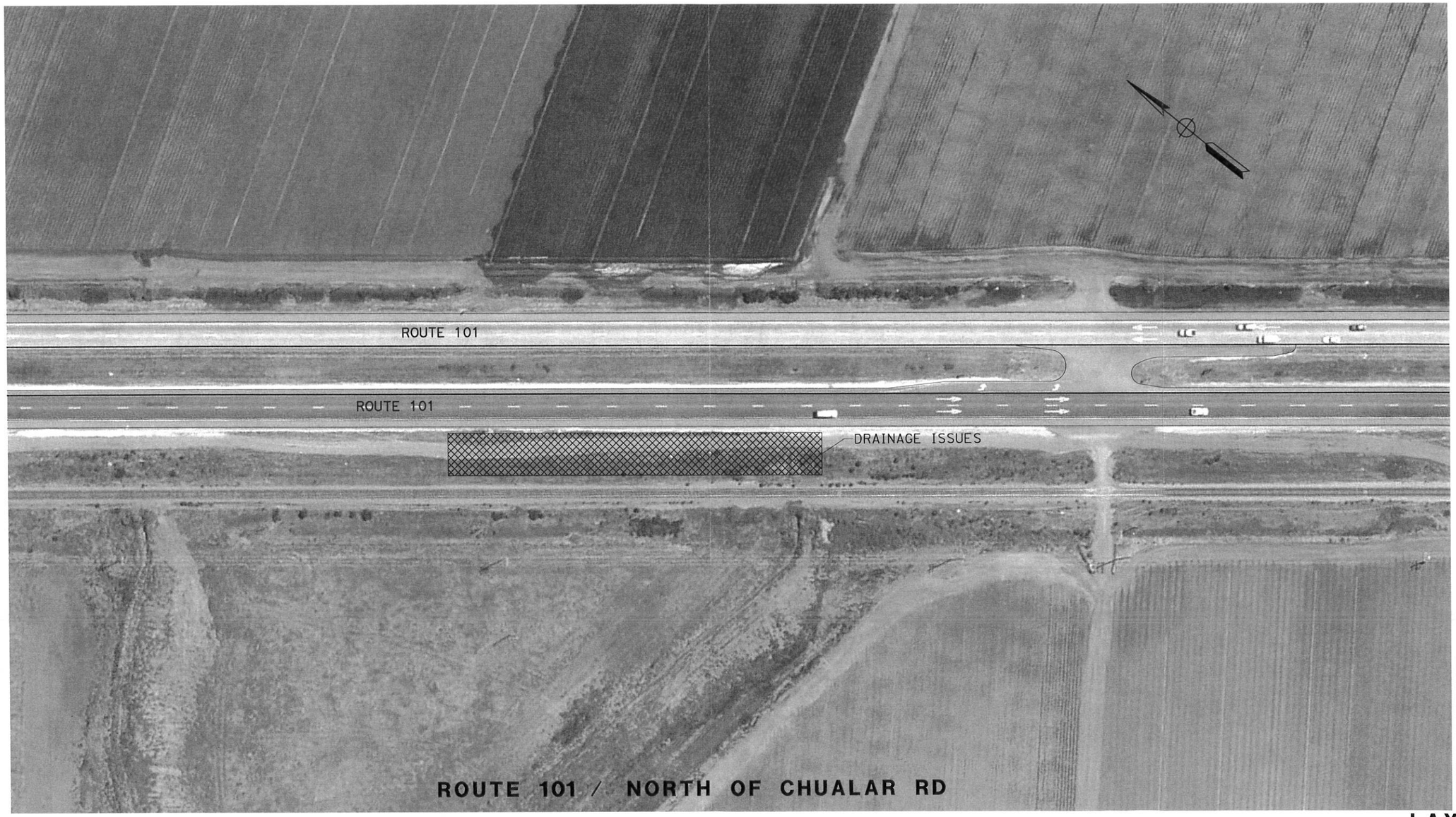

ROUTE 101 / NORTH OF CHUALAR RD

LAYOUT

L-4

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UNIT 1464

PROJECT NUMBER & PHASE 0514000073K

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05	Mon,SBT	101	73.0/96.8 0.0/7.5		

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ROUTE 101 / SOUTH OF SOMAVIA RD

LAYOUT

L-5

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UNIT 1464

PROJECT NUMBER & PHASE 0514000073K

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SBT	101	73.0/96.8 0.0/7.5		

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ROUTE 101 / SOUTH OF SPENCER RD

LAYOUT

L-6

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0000

PROJECT NUMBER & PHASE 0514000073K

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SBT	101	73.0/96.8 0.0/7.5		

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STATE OF CALIFORNIA

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ROUTE 101 / HARTNELL RD

LAYOUT

L-7

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UNIT 0000

PROJECT NUMBER & PHASE 0514000073K

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SBT	101	73.0/96.8 0.0/7.5		

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SEE SHEET 7

ROUTE 101 / GOULD RD

LAYOUT

SCALE 1" = 50'

L-8

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0000

PROJECT NUMBER & PHASE 0514000073K

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SBT	101	73.0/96.8 0.0/7.5		

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ROUTE 101 / AIRPORT BLVD

LAYOUT

SCALE 1" = 50'

L-9

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SBT	101	73.0/96.8 0.0/7.5		

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ROUTE 101 / SANBORN RD

LAYOUT

SCALE 1" = 50'

L-10

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SBT	101	73.0/96.8 0.0/7.5		

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ROUTE 101 / SANBORN RD

LAYOUT

SCALE 1" = 50'

L-11

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DGN FILE => sht 11.dgn

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UNIT 0000

PROJECT NUMBER & PHASE 0514000073K

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SBT	101	73.0/96.8 0.0/7.5		

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ROUTE 101 / JOHN ST

LAYOUT

SCALE 1" = 50'

L-12

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UNIT 0000

PROJECT NUMBER & PHASE 0514000073K

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SBT	101	73.0/96.8 0.0/7.5		

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ROUTE 101 / JOHN ST

LAYOUT

SCALE 1" = 50'

L-13

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DGN FILE => sht 13.dgn

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UNIT 0000

PROJECT NUMBER & PHASE 0514000073K

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
	Mon,SBT	101	73.0/96.8 0.0/7.5		

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GORES INCLUDED IN
PROJECT EA 05-1C890K
05-101-PM 87.3/R91.5
(DESIGN MANAGER GETACHEW ESHETE)

ROUTE 101 / SHERWOOD DR

LAYOUT
L-14

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SBT	101	73.0/96.8 0.0/7.5		

REGISTERED CIVIL ENGINEER DATE

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CORES INCLUDED IN
PROJECT EA 05-10890K
05-101-PM 87.3/R91.5
(DESIGN MANAGER GETACHEW ESHETE)

NB ON-RAMP

ROUTE 101

W LAUREL DR

NB ON-RAMP

SB ON-RAMP

SB OFF-RAMP

RELOCATE ELECTRIAL
SERVICE CABINET TO HERE

MVP-6

Exist ELECTRICAL
SERVICE CABINET

SB ON-RAMP

ROUTE 101 / LAUREL DR

LAYOUT

SCALE 1" = 50'

L-15

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DESIGNED BY

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DGN FILE => sht 15.dgn

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UNIT 0000

PROJECT NUMBER & PHASE 0514000073K

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SBT	101	73.0/96.8 0.0/7.5		

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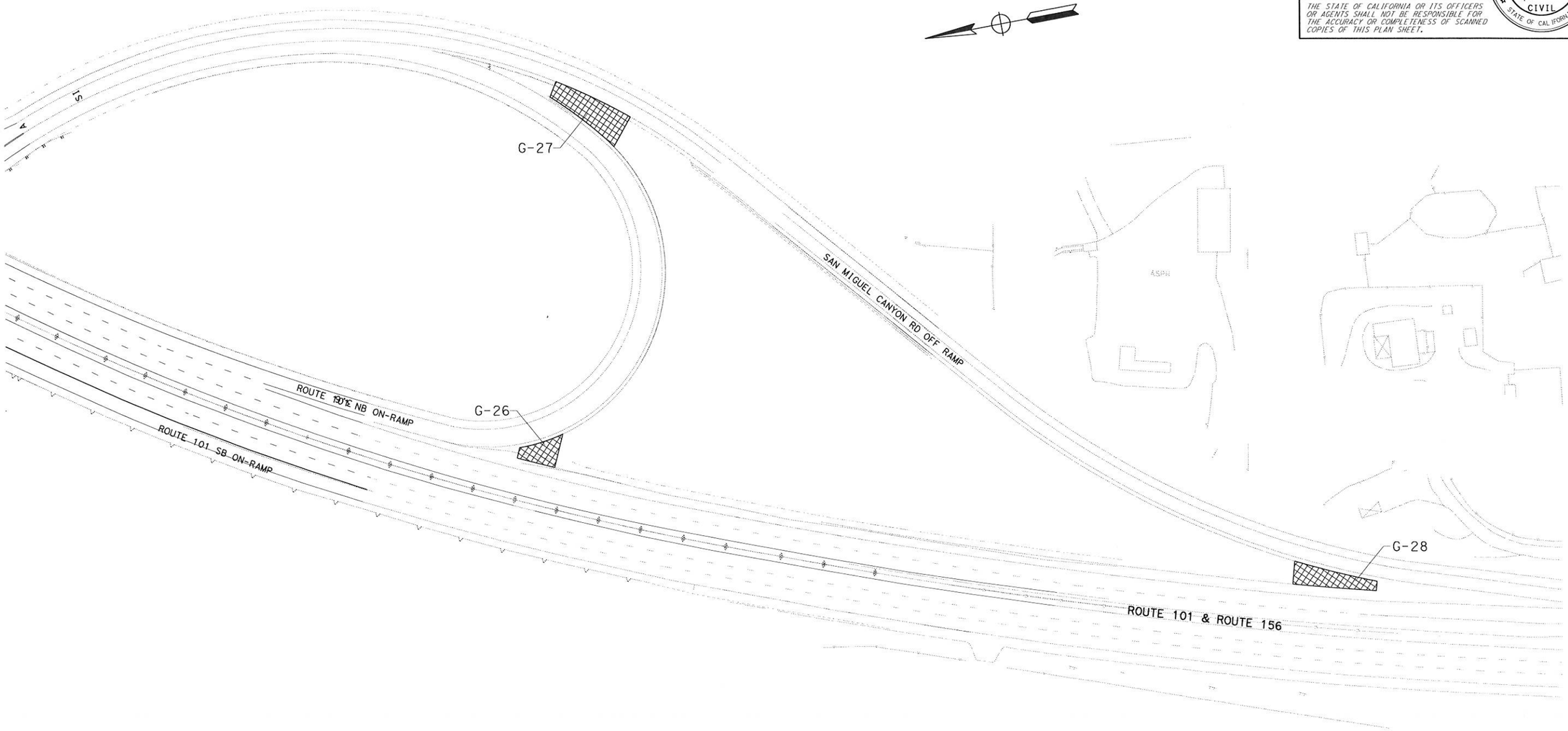

ROUTE 101 / SAN MIGUEL CANYON RD

SCALE 1" = 50'

LAYOUT

L-16

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UNIT 0000

PROJECT NUMBER & PHASE 0514000073K

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05	Mon,SBT	101	73.0/96.8 0.0/7.5		

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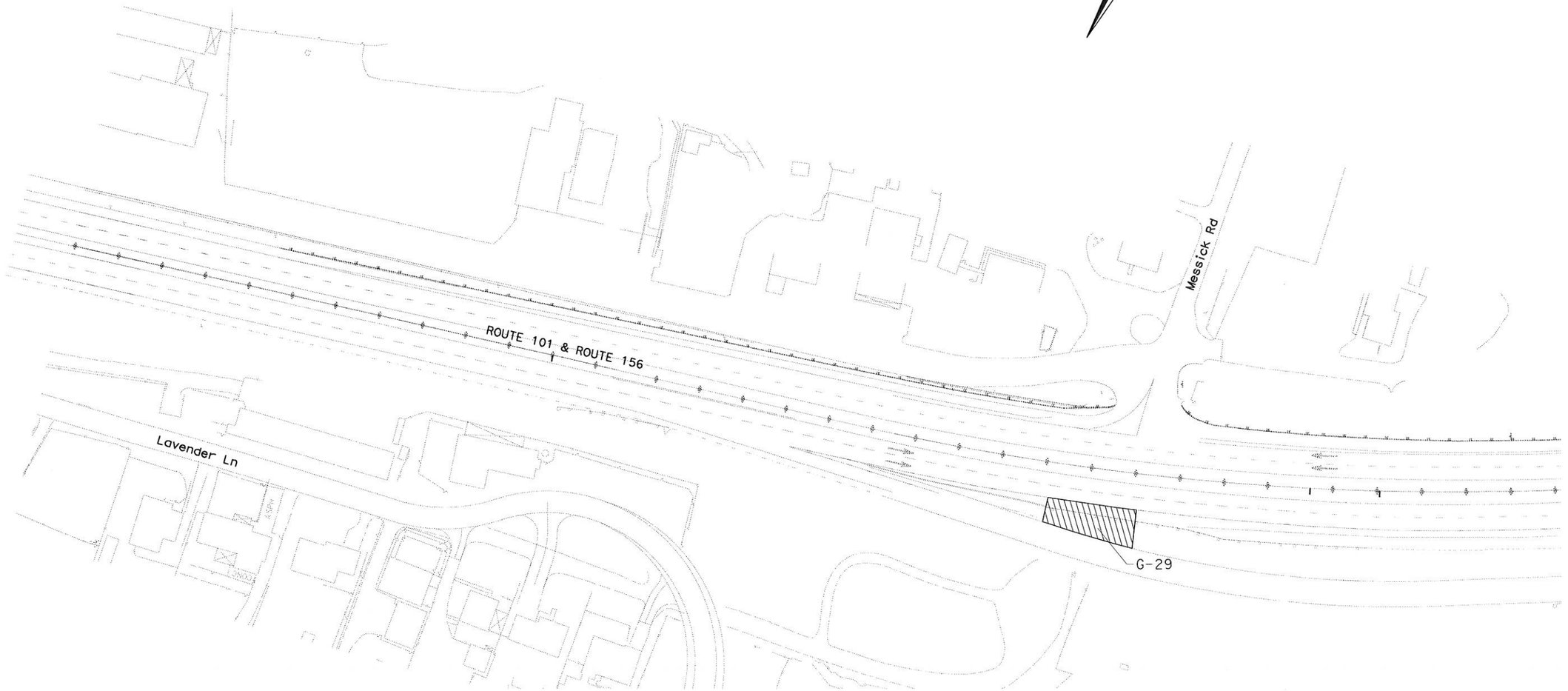

ROUTE 101 / SAN MIGUEL CANYON RD

SCALE 1" = 50'

LAYOUT

L-17

CALCULATED-DESIGNED BY	REVISED BY	GISELA GOMEZ
CHECKED BY	DATE REVISED	

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Caltrans®
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FUNCTIONAL SUPERVISOR
SCOTT SHAVER

LAST REVISION 11-24-14
DATE PLOTTED => 16-JUN-2015
TIME PLOTTED => 12:50

BORDER LAST REVISED 7/2/2010

USERNAME => s128944
DGN FILE => sht 17.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0000

PROJECT NUMBER & PHASE 0514000073K

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SBT	101	73.0/96.8 0.0/7.5		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
No.
Exp.
CIVIL
STATE OF CALIFORNIA

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ROUTE 101 / SOUTH OF ROCKS RD

LAYOUT

L-18

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USERNAME => s128944
DGN FILE => sht 18.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1464

PROJECT NUMBER & PHASE 0514000073K

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SBT	101	73.0/96.8 0.0/7.5		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
No.
Exp.
CIVIL
STATE OF CALIFORNIA

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ROUTE 101 / ROCKS RD AND CANNON RD

LAYOUT

L-19

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DGN FILE => sht 19.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1464

PROJECT NUMBER & PHASE 0514000073K

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SBT	101	73.0/96.8 0.0/7.5		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
No.
Exp.
CIVIL
STATE OF CALIFORNIA

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ROUTE 101 / NORTH OF ROCKS RD

LAYOUT

L-20

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USERNAME => s128944
DGN FILE => sht 20.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1464

PROJECT NUMBER & PHASE 0514000073K

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon, SBT	101	73.0/96.8 0.0/7.5		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
No.
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CIVIL
STATE OF CALIFORNIA

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SEE SHEET 22

ROUTE 101 / RTE 156

LAYOUT
L-21

REVISED BY	DATE REVISED

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WAFAA SIQUEIROS

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DGN FILE => sht 21.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1464

PROJECT NUMBER & PHASE 0514000073K

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SBT	101	73.0/96.8 0.0/7.5		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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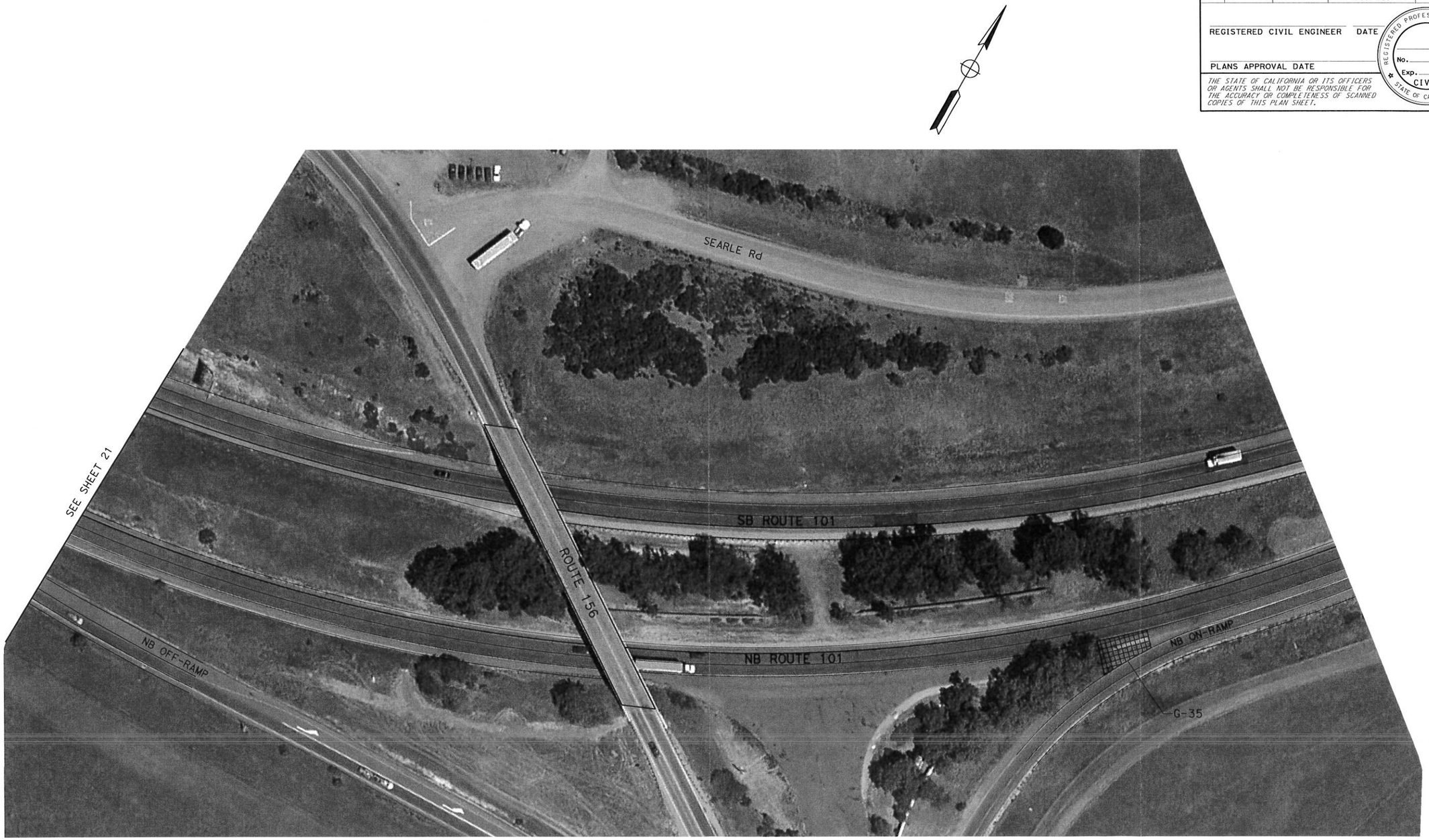

ROUTE 101 / RTE 156

LAYOUT L-22

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TIME PLOTTED => 12:50

BORDER LAST REVISED 7/2/2010

USERNAME => s128944

DGN FILE => sht 22.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1464

PROJECT NUMBER & PHASE 0514000073K

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SBT	101	73.0/96.8 0.0/7.5		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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ROUTE 101 / SOUTH OF CHITTENDEN RD

LAYOUT L-23

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USERNAME => s128944

DGN FILE => sht 23.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1464

PROJECT NUMBER & PHASE 0514000073K

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SBT	101	73.0/96.8 0.0/7.5		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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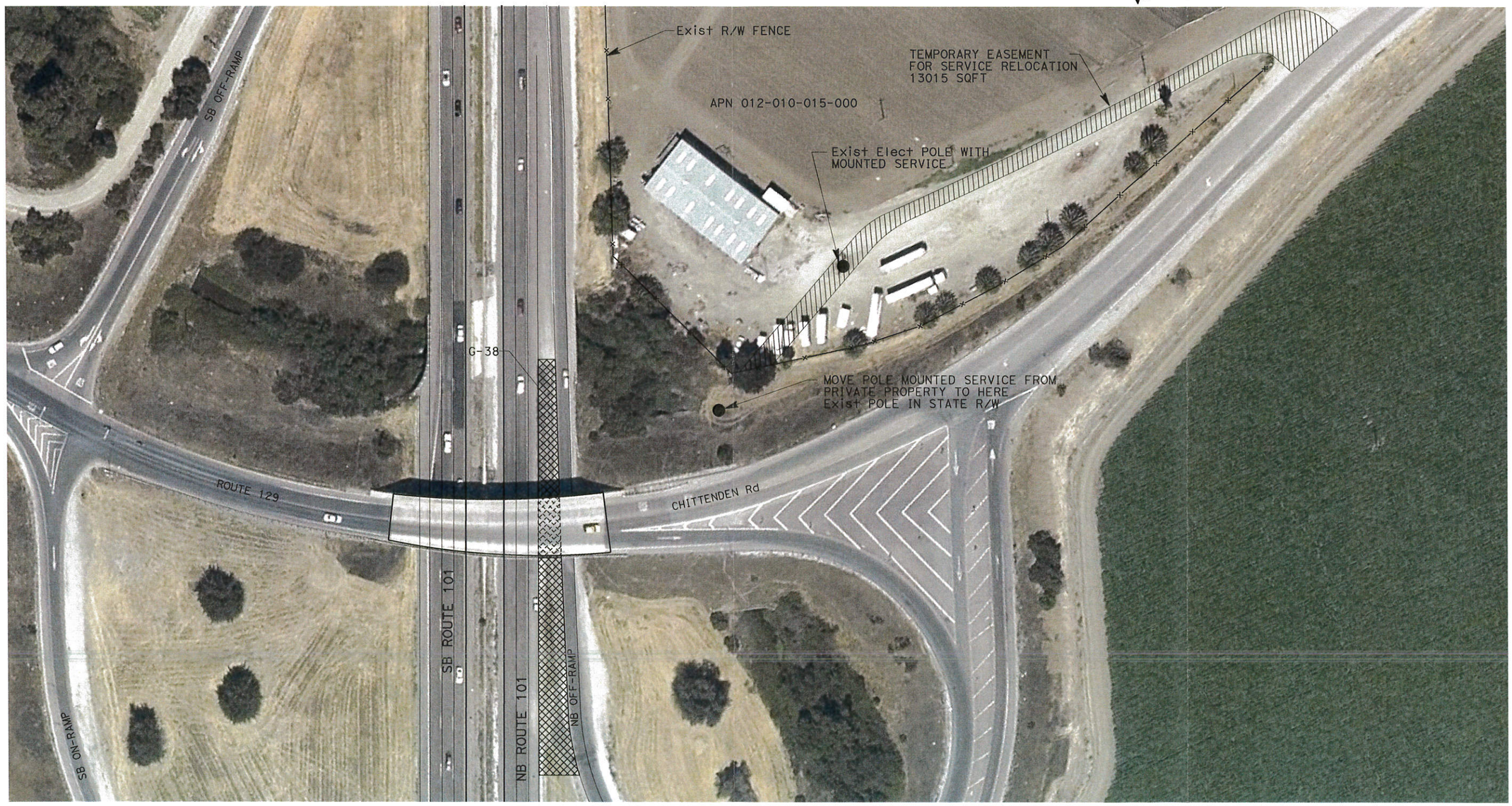

JCT ROUTE 129 / ROUTE 101 (CHITTENDEN RD)

LAYOUT

L-24

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LAST REVISION: DATE PLOTTED => 16-JUN-2015
12-18-14 TIME PLOTTED => 12:50

BORDER LAST REVISED 7/2/2010

USERNAME => s128944
DGN FILE => sht 24.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1464

PROJECT NUMBER & PHASE 0514000073K

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon, SBT	101	73.0/96.8 0.0/7.5		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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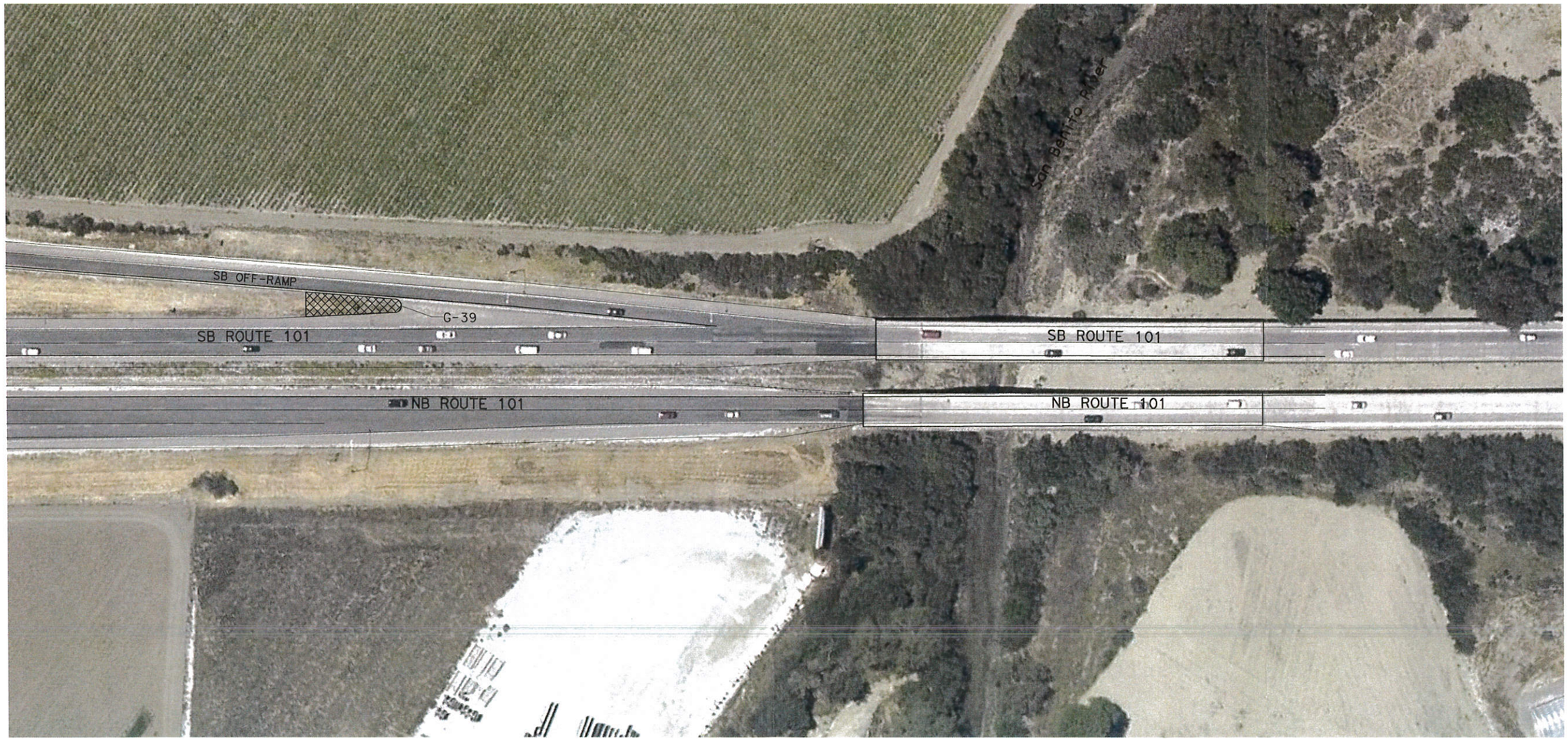

ROUTE 101 / NORTH OF CHITTENDEN RD

LAYOUT
L-25

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Caltrans
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FUNCTIONAL SUPERVISOR: SCOTT SHAVER

CALCULATED-DESIGNED BY

CHECKED BY

WAFAA SIQUEIROS

REVISED BY

DATE REVISED

LAST REVISION
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TIME PLOTTED => 12:50
12-18-14

BORDER LAST REVISED 7/2/2010

USERNAME => s128944
DGN FILE => sht 25.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1464

PROJECT NUMBER & PHASE 0514000073K

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SBT	101	73.0/96.8 0.0/7.5		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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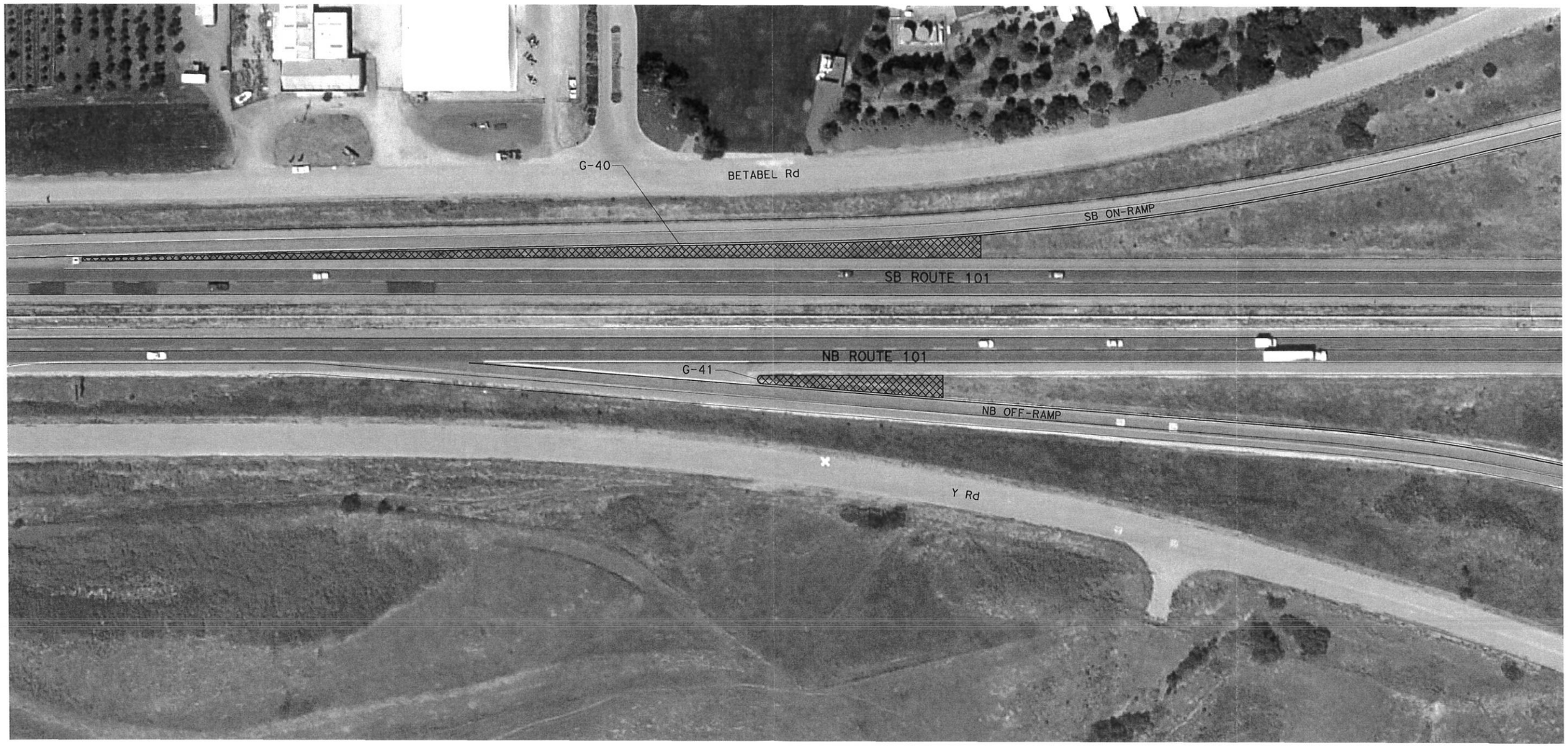

ROUTE 101 / BETABEL RD AND Y RD

LAYOUT L-26

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER

CALCULATED-DESIGNED BY: WAFAA SIQUEIROS

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION DATE PLOTTED => 16-JUN-2015

TIME PLOTTED => 12:51

09-19-14

BORDER LAST REVISED 7/2/2010

USERNAME => s128944

DGN FILE => sht 26.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1464

PROJECT NUMBER & PHASE 0514000073K

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SBT	101	73.0/96.8 0.0/7.5		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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ROUTE 101 / BETABEL RD AND Y RD

LAYOUT L-27

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER

CALCULATED-DESIGNED BY: WAFAA SIQUEIROS

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 12-09-14 DATE PLOTTED => 16-JUN-2015 TIME PLOTTED => 12:51

BORDER LAST REVISED 7/2/2010

USERNAME => s128944
DGN FILE => sht 27.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1464

PROJECT NUMBER & PHASE 0514000073K

March 26, 2015

Preliminary Environmental Analysis Report

Project Information

District 05 County MON, SBT Route 101 Post Mile 73.0/96.8 , 0.0/7.5 EA 05-1F900K
Project ID#: 05-1400-0073K
Project Title: Roadside Safety Improvement Project

Project Manager:	Richard Rosales	Phone #:	(805) 549-3792
Design Manager:	Scott Shaver	Phone #:	(559) 230-3118
Design Engineer:	Wafaa Siqueiros	Phone #:	(559) 243-3406
Environmental Manager:	Kirsten Helton	Phone #:	(559) 445-6461
Environmental Planner:	Matthew Palmer	Phone #:	(559) 445-6453

PSR Summary Statement

The anticipated environmental document for the proposed project is a Mitigated Negative Declaration / Categorical Exclusion. This document level has been selected based on potential biological impacts to wetlands and California tiger salamander, which are anticipated to be mitigated below the threshold of significance as defined by CEQA. Also, a site with historic-period mission-themed architectural and landscape resources (CA-SBN-225H) has been identified at one location (Gore Point G-35). The site is potentially eligible for listing in the National Register of Historic Places, but any project impacts to this resource are anticipated to be very minor; Section 4(f) impacts if applicable, would therefore be *de minimis*. The California Department of Transportation would act as the lead agency in the preparation of a joint NEPA/CEQA (National Environmental Policy Act/California Environmental Quality Act) environmental document. Caltrans will serve as the NEPA lead agency under its assumption of responsibility pursuant to 23 U.S. Code 327. The estimated time to obtain environmental approval is 30 months from the start of environmental studies. Assuming a start date of July 1st, 2016 environmental studies would begin January 1st, 2017 after project preliminary maps and permits to enter are completed. Final environmental document would be anticipated by December 1st, 2018.

It is anticipated multiple environmental studies and reports will be required for this project including (but not limited to): Resources Evaluation Report, Historic Properties Survey Report, Natural Environment Study, biological assessment, Section 7 consultation and a Biological Opinion issued by the U.S. Fish and Wildlife Service (USFWS), and a Visual Impact Assessment. Biology could become critical path if avoidance measures are not implemented into to the project description. A 2081 Incidental Take Permit will be required, which is issued by the California Department of Fish and Wildlife. Mitigation for impacts to wetlands and California tiger salamander is estimated at $50,000 per acre (permanent / temporary impacts) with mitigation not expected to exceed 1 acre. 250,000 dollars will be needed for a biological mitigation endowment. An additional $29,545 will be required for mitigation monitoring. 50,000 dollars is estimated to provide aesthetic treatments to paving and for painting the CMS if required.

Project Description

The California Department of Transportation (Caltrans), proposes to improve roadside safety on State Route 101 in Monterey and San Benito Counties between Post Miles 73.0/96.8 and between 0.0/7.5. Caltrans would improve roadside safety by installing maintenance vehicle pullouts, relocating some electrical items, installing fencing and paving gore areas.

Purpose and Need

Purpose: The roadsides of Route 101 have not been updated for many years and the Department has placed greater emphasis on maintenance worker safety and roadside maintainability. This project will help correct these problems and create a safer environment for maintenance personnel and the public.

Need: Identified areas within the project limits frequently expose maintenance workers to high speed traffic. The maintenance exposure to traffic will be reduced by correcting the identified deficiencies. Some areas of concern are weed growth in gore areas and lack of maintenance vehicle pullouts needed to safely maintain state owned facilities.

Description of Work

The California Department of Transportation (Caltrans), proposes to improve roadside safety on State Route 101 in Monterey and San Benito Counties between Post Miles 73.0/96.8 and between 0.0/7.5. Caltrans would improve roadside safety by installing maintenance vehicle pullouts, relocating some electrical items, installing fencing and paving gore areas.

Alternatives

Two alternatives are being proposed which includes a Build and a No Build alternative. The scope of work identified in the Build alternative is outlined in the two tables below.

Build Alternative
05-1F900 Requested Improvements
Rte 101, Monterey County

Begin Post Mile (Approximate)	End Post Mile (Approximate)	Side of Hwy	Location Description/Comments
73.00	96.80	Both	Pave all unpaved gores
76.63	76.71	SB	Fence area for equipment parking and add lighting between frontage and SB lanes
77.90	78.00	SB	Drainage issues
79.00	79.30	NB	Drainage issues
80.54		NB	CMS
82.55		SB	Pumphouse MVP-1
85.65		SB	MVP-3 for service cabinet
85.85		SB	MVP-2 for landscape pump
86.16		NB	MVP-4 on NB offramp
86.91		SB	MVP-5 on SB offramp
87.96		SB	Relocate electrical cabinet to mainline within CT R/W
R89.34		SB	Relocate electrical cabinet to left side of SB offramp and add MVP-6

Build Alternative
05-1F900 Requested Improvements
Rte 101, San Benito County

Begin Post Mile (Approximate)	End Post Mile (Approximate)	Side of Hwy	Location Description/Comments
All locations		Both	Pave Gores
1.08	1.17	Both	Pave by railing
1.63		Median	Close median between Rocks Rd and Cannon Rd, it's currently used as a turnaround
1.98		SB	MVP-8 for flashers on SB shoulder
1.97		NB	MVP-7 for CMS
2.86		SB	Remove Pullbox from gore between Hwy 101 and Hwy 156
2.91		SB	Remove Pullbox from gore between Hwy 101 and Hwy 156
2.82		NB	Remove Pullbox from gore between NB Hwy 101 and offramp to Hwy 156
2.87		SB	Pave inside shoulder drain.
4.93	4.96	NB	Move pole mounted service off of private property to state Right of Way

NO BUILD would leave the road as it is and do nothing to correct the needed improvements.

Funding

☒**State** ☒**Federal**

The proposed project would be included in the 2016 SHOPP to be funded by the Funded by the Roadside Safety Improvement Program (201.235) for delivery in the 2019/2020 fiscal year. The current estimated project cost is $2 million (2015 dollars).

Anticipated Environmental Approval

CEQA	NEPA
☐**Categorical Exemption/Statutory Exemption**	☒**Categorical Exclusion (☒6004/☐6005)**
☒**Negative Declaration/Mitigated ND(☐Appendix G)**	☐**Finding of No Significant Impact**
☐**Environmental Impact Report**	☐**Environmental Impact Statement**

Anticipated Environmental Schedule

Total Time for Environmental Approval	30 Months
Start Date	7/1/16
Begin Environmental	1/1/17
Draft Environmental Document	1/1/18
Final Environmental Document	12/1/18

PA&ED*	1/1/19

**PA&ED is generally 1 month following the FED date*

Assumptions and Risks

Risks to the project have been defined in accordance with the Project Risk Management Handbook, May 2, 2007, Second Edition, Rev 0:

Assumptions:

- Design will submit Environmental Request by January 1st, 2017.
- Current schedule anticipates that the project will be programmed on time and that there will be sufficient time and project information to complete environmental studies.
- Current schedule and level of environmental approval is based on current design and project description, which will not avoid cultural and biological issues.
- No additional cultural resources would be found within the project location areas.
- Based on the current project description which does not avoid sensitive natural resources, Section 7 consultation and a 2081 Incidental Take Permit will be required.
- Based on the current project description which does not avoid sensitive natural resources, mitigation and monitoring will be required for California tiger salamander.

Risks:

- Scope changes which increase impacts, or failure to reduce scope to avoid identified impacts to the project; could require additional studies and impact the schedule for up to 12 months. Impact to schedule would be moderate to high with a Risk Probability Ranking 4.
- That significant cultural resources under CEQA or Section 106 are identified, and that impacts cannot be avoided or mitigated. Impact to schedule would be very low with a Risk Probability Ranking 1.
- If the USFWS requires protocol level surveys for California tiger salamander then additional hours may be needed to conduct the surveys, negatively affecting the schedule of the project. . Impact to schedule would be moderate to high with a Risk Probability Ranking 3.
- If no mitigation banks are available for impacts to CTS habitat, project schedule would be affected. Impact to schedule would be moderate to high with a Risk Probability Ranking 3.

Risk Probability Ranking	
Ranking	Probability of Risk Event
5	60-99%
4	40-59%
3	20-39%
2	10-19%
1	1-9%

Evaluating Impact of a Threat on Project Objectives						
Impact		Very Low	Low	Moderate	High	Very High
Objectives	Time	Insignificant Schedule Slippage	Delivery Plan Milestone Delay within quarter	Delivery Plan milestone delay of one quarter	Delivery Plan milestone delay of more than 1 quarter	Delivery Plan milestone delay outside fiscal year
	Cost	Insignificant Cost Increase	<5% Cost Increase	5-10% Cost Increase	10-20% Cost Increase	>20% Cost Increase
	Scope	Scope decrease is barely noticeable	Changes in project limits or features with <5% Cost Increase	Changes in project limits or features with 5-10% Cost Increase	Sponsor does not agree that Scope meets the purpose and need	Scope does not meet purpose and need

Mitigation

Known mitigation costs, which were determined during the creation of this document, are listed in the respective categories below. Further studies may reveal the need for additional mitigation, which would be added to the cost of the project and included in an updated Mitigation Cost Compliance Estimate Form.

Right of Way Capital (050)

- Wetlands and California tiger salamander – $50,000 per acre (permanent / temporary impacts) with mitigation not expected to exceed 1 acre. (2015 dollars)
- Biological Mitigation Endowment – $250,000 dollars (2015 dollars)

Construction Capital (042)

- Mitigation Monitoring – $29,545 (2015 dollars)
- Aesthetic Treatments – $50,000 (2015 dollars)

Disclaimer

This report is not an environmental document. Preliminary analysis, determinations, and estimates of mitigation costs are based on the project description provided in this report. The estimates and conclusions provided are approximate and are based on cursory analysis of probable effects. This report is to provide a preliminary level of environmental analysis to supplement the Project Initiation Document. Changes in project scope, alternatives, or environmental laws will require a reevaluation of this report.

Review and Approval

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

Approved by:

Environmental Manager — Date: 4/1/2015

Environmental Office Chief — Date: 4-1-15

Project Manager — Date: 4-3-15

Environmental Technical Reports or Studies Required

Required–requires analysis including field surveys, database searches, report, or memo to file and brief explanation in the environmental document.
Not Required–Issue is not applicable to the proposed project.
Possible Critical Path–Major issue that has the potential to drive the schedule and determine the length of time to reach PA&ED (can be more than one major issue).

	Required	Clearance Memo Received	Not Required	Possible Critical Path
Biology		☐		☒
Endangered Species (Federal)	☒		☐	
Endangered Species (State)	☒		☐	
Species of Concern (CNPS, USFS, BLM, S, F)	☒		☐	
Wetland Delineation	☒		☐	
Natural Environment Study	☒		☐	
Biological Assessment (USFWS, NMFS, State)	☒		☐	
Cultural Resources				☐
ASR	☐		☒	
HRER	☒		☐	
HPSR/HRCR	☒		☐	
Screening Memo	☐	☐	☐	
SHPO Concurrence	☒		☐	
Native American Coordination	☐		☒	
Finding of Effect Document	☒		☐	
Treatment Plan & MOA	☐		☒	
Hazardous Waste		☒		☐
ISA	☐		☒	
PSI	☐		☒	
ADL	☒		☐	
Yellow Thermoplastic Paint Stripping	☐		☒	
Asphalt Concrete Cuttings	☐		☒	
Treated Wood Waste	☒		☐	
Asbestos Containing Materials	☐		☒	
Air Quality Analysis		☒		☐
Hot Spot Analysis	☐		☒	
MSAT	☐		☒	
Noise Study	☐	☒	☒	☐
Water Quality	☐	☒	☒	☐
Community Impact Assessment				☐
Environmental Justice	☐		☒	
Growth Related Impacts	☐		☒	
Cumulative Impacts	☐		☒	☐
Farmland	☐		☒	☐
Visual Resources		☐		☐
Scenic Resource Evaluation	☐		☒	
Visual Impact Assessment	☒		☐	
Floodplain Evaluation	☐		☒	☐
Paleontology	☐		☒	☐
Section 4(f) Evaluation	☒		☐	☐
Wild and Scenic River Consistency	☐		☒	☐
Geology	☒		☐	☐
Topology	☒		☐	☐
Soils	☒		☐	☐
Greenhouse Emissions	☒		☐	☐

Permits Anticipated for Construction

	Required	Not Required
401 Permit Coordination (discharge into navigable waters)	☐	☒
404 Permit Coordination (discharge into waters of the US including wetlands)	☐	☒
☐ - Nationwide		
☐ - Individual		
1600 Permit (Streambed Alteration)	☐	☒
City/County Coastal Permit Coordination	☐	☒
State Coastal Permit Coordination	☐	☒
NPDES Coordination	☒	☐
US Coast Guard (Section 10)	☐	☒
State 2081 Permit (State only incidental take of threatened or endangered species)	☒	☐

Discussion of Technical Review

Biology

The area where this project takes place contains a very high density of sensitive biological resources. Based on the current project description, sensitive natural resources will be affected requiring a Biological Assessment, Biological Opinion, Section 7 Consultation, and a 2081 Incidental Take Permit. Mitigation and monitoring will also be required for impacts to wetlands and California tiger salamander.

Field studies and additional research will be conducted to further assess potential impacts and what actions would be required; and a Natural Environment Study will be prepared for this project. If sensitive areas can be avoided or minimized, then specific permits and consultations may be able to be avoided or their complexity reduced, resulting in a cost and time savings to the project.

Cultural Resources

The project is located almost entirely within the existing highway prism, and work is proposed at highly disturbed locations with a low sensitivity for significant architectural and archaeological resources. The single exception is work being conducted at Gore Point G-35. Additional architectural studies will be required to determine if the historic-period resources at this location will be affected.

Consultation with the Native American community and local planning agencies is not likely, but may be required. An Archaeological Survey Report is not anticipated, but a Historical Resources Evaluation Report, Historic Property Survey Report, and a brief Finding of Effect statement will be prepared for this project to address the historic-period resources at Gore Point G-35.

Hazardous Waste

There are no significant hazardous waste concerns for this project however, specific SSP's may be required for treated wood waste (TWW) and possibly Aerially Deposited Lead (ADL). A lead compliance plan (LCP) will also be required for the project and will cover one or more of the expected hazardous materials above.

Air Quality Analysis

The proposed project is located within the North Central Coast Air Basin. According to 40 CFR Section 93.126 Table 2, this project is exempt from the requirement that a conformity determination be made. No further study is needed.

Noise Study

The proposed project would neither increase traffic nor alter the location of the highway and is not considered a Type 1 project. No further study is required.

Water Quality

The proposed project has the potential of having short-term water quality impact, however by incorporating proper and accepted engineering practices and BMP's the proposed project will not have significant impacts to water quality. No further study is required

Community Impact Assessment

No communities within the project limits will be affected by the project

Cumulative Impacts

A Cumulative Impacts analysis will not be required for this project

Farmland

The project will not be acquiring any farmland or be impacting any farmland.

Visual Resources

Potentially adverse impacts resulting from the project will require a visual study to analyze the level of visual impacts expected and the appropriate mitigation measures to reduce those impacts to a level below significant.

Floodplain Evaluation

The project is not located in a 100 year floodplain.

Paleontology

There is a very low probability of encountering paleontological resources associated with the project.

Section 4(f) Evaluation

A Section 4(f) de minimis finding will need to be prepared.

Wild and Scenic River Consistency

There are no Wild and Scenic Rivers within the project limits

Geology

A geotechnical investigation will be required at the site to determine engineering properties of local soil and rock, including depth of soil profile, hydraulic conductivity, and relative density.

Topology

A geotechnical investigation will be required at the site to determine engineering properties of local soil and rock, including depth of soil profile, hydraulic conductivity, and relative density.

Soils

A geotechnical investigation will be required at the site to determine engineering properties of local soil and rock, including depth of soil profile, hydraulic conductivity, and relative density.

Greenhouse Emissions

Greenhouse Emissions will be assessed in the environmental document

Permits

- 2081 Incidental Take Permit

List of Preparers

Air Quality and Noise by Cris Timofei	02/19/15
Archeology by Christina MacDonald	01/29/15
Architectural History by Paula Carr	01/23/15
Biology by Paul Holmes	01/29/15
Paleontology by Isaac Leyva	02/04/15
Hazardous Waste and Water Quality by Justin Borders	02/06/15
Visual Assessment by Robert Carr	02/04/15
Preliminary Environmental Analysis Report by Matthew Palmer	03/26/15

APPENDIX E

Short Form - Storm Water Data Report

Dist.-County-Route: 05 – MON, SBT – 101, 101
Post Mile Limits: 73.0 / R91.3, 0.0 / 7.5
Project Type: ROADSIDE SAFETY IMPROVEMENTS
Project ID (or EA): 05-1400-0073-K, (05-1F900K)
Program Identification: SHOPP 201.235
Phase: ☒ PID ☐ PA/ED ☐ PS&E

Regional Water Quality Control Board(s): Central Coast, Region 3

1.	Does the project propose to create 1 ac or more of new/redeveloped new impervious surfaces (TBMP consideration required)?	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 – Storm Water Data Report.

Estimate Construction Start Date: 9/02/2020 Construction Completion Date: 4/30/2021

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.

6/15/15

Wafaa Siqueiros,, Registered Project Engineer *Date*

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

(Stamp Required for PS&E only)

FOR 6/15/15

James Espinosa, Regional SW Coordinator or Designee *Date*

ATTACHMENT F

1. Project Description

- This project proposes to improve roadside worker safety at various locations a 26 mile section of Route 101 corridor. The project limits are within Monterey (MON) and San Benito (SBT) Counties from post miles SBT 7.5 to MON 73.0. This project proposes to implement roadside safety improvements of Paving beyond Gore, fix drainage, install CMS, install MVPs, relocate electrical cabinets, paving under railing, remove and relocate pullboxes, close median, pave inside shoulder drain, move pole mounted service, and fence equipment area. See attached table listing type of work, construction locations, and separations.
- The project includes 55 separate sites of construction which are clustered within five areas that have from 0.5 to 3 miles of separation between each construction location. These areas are defined as non-contiguous per the Environmental Protection Agency (EPA) requirements and therefore the disturbed soil area (DSA) is calculated separately for each site. Contiguous sites are treated as common plans of development in accordance with EPA requirements and DSA is combined for contiguous sites. See attached table listing type of work, construction locations, and separations.
- The total DSA for this project is 2.65 acres, however, no separate location has more than 0.61 acres of soil disturbance. See attached table listing type of work, construction locations, separations, and DSA
- The total net new impervious (NNI) surfaces created by this project is 2.42 acres. No separate location has more than 0.59 acres of NNI surfaces. See attached table listing type of work, construction locations, separations, and NNI
- Portions of the project are within Salinas's and Prunedale urban MS4 areas.
- The project receiving water bodies with in San Benito County are: San Benito River, Pajaro River and San Juan Creek which are located within Hydrologic Unit – Pajaro River, Hydrologic Area – Santa Cruz Mountains, and Hydrologic Sub-Area – Undefined. The projects receiving water bodies within Monterey County are: Santa Rita Creek, Salinas Reclamation Canal, Natividad Creek, Alisal Creek, Salinas River, Chualar Creek, and Esperanza Lake which are located within Hydrologic Unit – Salinas, Hydrologic Area – Chualar, and Hydrologic Sub-Area – Undefined. See table "Receiving Water Bodies" in attachments below to identify 303(d) list status and pollutants of Concern.
- Permanent Maintenance Stockpile Facilities exist within this projects limits. The contractor will not be allowed the use of these facilities unless prior arrangements are and concurrence is made with the District 05 Maintenance Stormwater Coordinator, Chris Chalk. The following list of Permanent Stockpile Facilities are located within this projects limits:

Location	County	Route	Postmile	Nearest Water Body
D5W12	MON	101	76.6	Salinas River
D5W96	MON	101	R89.3	Gavilan Creek

- Permanent Storm Water Treatment BMP facilities exist within this projects limits. The contractor will not be allowed the use of these permanent treatment facilities unless prior arrangements and concurrence is made with the District 05 Maintenance Stormwater Coordinator, Chris Chalk. The following list of Permanent Storm Water Treatment Facilities are located within this projects limits:

Appurtenance Tracking ID/Description	TYPE TBMP	BEGIN PM	BEGIN LAT/LONG	END PM	END LAT/LONG
SWMON101-N080400 05 MON 101 PM 080.400 N	Bio Strip	80.40	36.609/-121.563	80.59	63.608/-121.561
SWMON101-N081100 05 MON 101 PM 081.100 N	Bio Strip	81.10	36.613/-121.568	81.50	36.617/-121.573
SWMON101-N081510 05 MON 101 PM 081.510 N	Bio Strip	81.51	36.617/-121.573	82.00	36.622/-121.580
SWMON101-N082390 05 MON 101 PM 082.700 N	Bio Strip	82.70	36.629/-121.589	93.63	36.638/-121.601
SWMON101-N084390 05 MON 101 PM 084.390 N	Bio Strip	84.39	36.645/-121.611	85.31	36.656/-121.620
SWMON101-N085350 05 MON 101 PM 085.360 N	Bio Swale	85.35	36.657/-121.621	85.36	36.657/-121.621
SWMON101-N085370 05 MON 101 PM 085.380 N	Bio Swale	85.37	36.657/-121.621	85.38	36.657/-121621

2. Construction Site BMPs

- This project proposes to create less than one acre of DSA. Therefore requires the preparation of a Water Pollution Control Program (WPCP). Because the DSA is under one acre a risk level determination is not required.
- Storm water management for the site will be coordinated through the contractor with Caltrans construction personnel to effectively manage erosion from the DSA's by implementing a Water Pollution Control Program (WPCP). Selected BMP's that will be included but not limited to the WPCP for the project are defined as follows:

Temporary Soil Stabilization

- Minimize active DSA's during the rainy season utilizing scheduling techniques.
- Preserve existing vegetation to the maximum extent feasible.
- Implement temporary protective cover/erosion control on all non-active DSA's and soil stockpiles.
- Control erosive forces of storm water runoff with effective storm flow management such as temporary concentrated flow conveyance devices, earthen dikes, drainage swales, lined ditches, outlet protection/velocity dissipation devices, and slope drains as determined feasible.

Temporary Sediment Controls

- Implement linear sediment controls such as fiber rolls, check dams, or gravel bag berms on all active and non-active DSA's during the rainy season.
- To further help prevent sediment discharge stabilized construction site entrances, temporary drainage inlet protection, and street sweeping and vacuuming will be necessary.
- Implement appropriate wind erosion controls year round.

Non Storm Water Management

- The appropriate non-storm water BMP's will be implemented year-round as follows:
- Water conservation practices are implemented on all construction sites and wherever water is used.
- Paving and Grinding procedures are implemented where paving, surfacing, resurfacing, grinding, or saw cutting may pollute storm water runoff or discharge to the storm drain system or watercourses.
- Procedures and practices designed for construction contractors to recognize illicit connections or illegally dumped or discharged materials on a construction site and report incidents to the Resident Engineer.
- The following activities must be performed at least 100 feet from concentrated flows of storm water, drainage courses, and inlets if within the floodplain and at least 50 feet if outside of the floodplain; stockpiling materials, storing equipment and liquid waste containers, washing vehicles or equipment, fueling and maintaining vehicles and equipment.
- Concrete curing will be used in the construction of structures such as bridges and retaining walls. Concrete curing includes the use of both chemical and water methods. Proper procedures will minimize pollution of runoff during concrete curing.
- The following construction site BMPs are anticipated to be bid items for this project:
    - 130100 - Job Site Management
    - 130200 - Prepare Water Pollution Control Program
    - 130620 - Temporary Drainage Inlet Protection
    - 130720 - Temporary Construction Roadway
    - 130730 - Street Sweeping

Supplemental Items

- 066595 - Water Pollution Control Maintenance Sharing
- 066596 - Additional Water Pollution Control

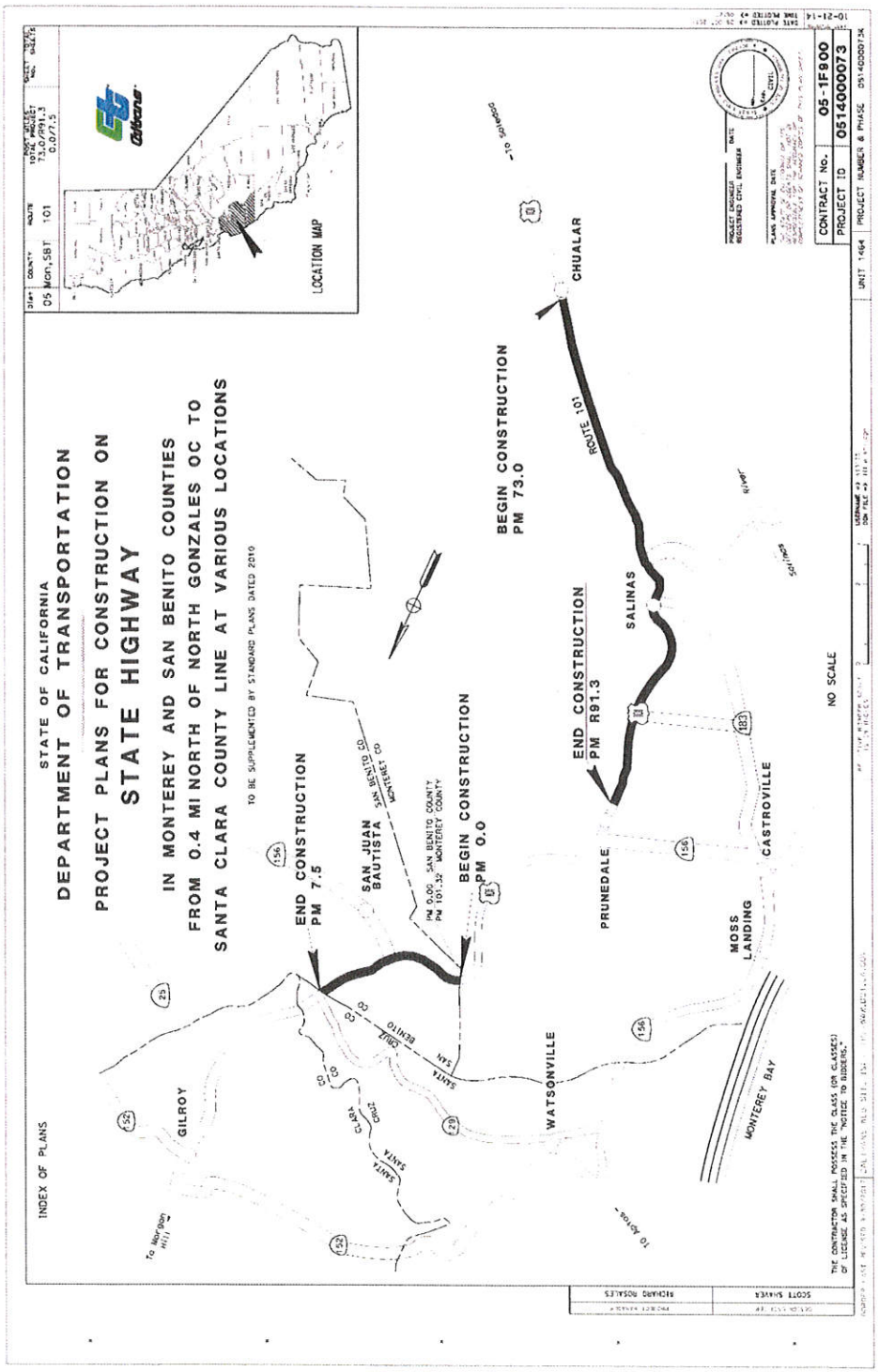
- The cost of construction site BMPs is estimated at 1.5% of the total construction cost (see "Percentage Total Cost" method described in Appendix F of the Project Planning and Design Guide.)
- Document coordination effort to get concurrence from District Construction Stormwater Coordinator (CSWC) regarding the Construction Site BMP strategy and associated quantities will take place during the PS&E phase.

3. Required Attachments[1]

- Vicinity Map
- Evaluation Documentation Form
- DSA Separation & Water Sheds
- Receiving Water Bodies

[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).

VICINITY MAP



DSA SEPARATION & WATER SHEDS p.1

Location	Post Mile		Direction	Description	DSA	New Impervious Area	Watershed	Receiving Water Body
	Begin	End			(acre)	(acre)		
	Route 101			Montery County PM 73.0 - 91.3				
1	76.63	76.71	SB	Fence Equipment Area	0.000	0.000	Salinas	Chualar Creek
2	76.65	76.67		Paving Beyond Gore	0.029	0.029	Salinas	Chualar Creek
3	76.86	76.88		Paving Beyond Gore	0.045	0.045	Salinas	Chualar Creek
4	77.10	77.13		Paving Beyond Gore	0.077	0.077	Salinas	Chualar Creek
5	77.17	77.21		Paving Beyond Gore	0.087	0.070	Salinas	Chualar Creek
6	78.00	78.00	SB	Fix Drainage	0.020	0.000	Salinas	Chualar Creek
7	79.00	79.00	NB	Fix Drainage	0.030	0.000	Salinas	Salinas River
8	80.54		SB	CMS	0.000	0.000	Salinas	Salinas River
9	82.20	82.20		Paving Beyond Gore	0.014	0.014	Salinas	Salinas River
10	82.22	82.23		Paving Beyond Gore	0.017	0.017	Salinas	Salinas River
11	82.28	82.32		Paving Beyond Gore	0.107	0.107	Salinas	Salinas River
12	82.32	82.35		Paving Beyond Gore	0.098	0.098	Salinas	Salinas River
13	82.41	82.44		Paving Beyond Gore	0.065	0.065	Salinas	Salinas River
14	82.55	82.56	SB	MVP-1	0.018	0.018	Salinas	Salinas River
2.9 Mile Separation				Subtotal	0.61	0.54		
15	85.65	85.66		Paving Beyond Gore	0.008	0.008	Salinas	Alisal Creek
16	85.65	85.66	SB	MVP-3	0.018	0.018	Salinas	Alisal Creek
17	85.66	85.66		Paving Beyond Gore	0.012	0.010	Salinas	Alisal Creek
18	85.68	85.70		Paving Beyond Gore	0.034	0.027	Salinas	Alisal Creek
19	85.85	85.86	SB	MVP-2	0.018	0.018	Salinas	Alisal Creek
20	85.92	85.93		Paving Beyond Gore	0.021	0.021	Salinas	Alisal Creek
21	85.97	85.98		Paving Beyond Gore	0.029	0.023	Salinas	Alisal Creek
22	86.00	86.01		Paving Beyond Gore	0.016	0.016	Salinas	Alisal Creek
23	86.00	86.04		Paving Beyond Gore	0.037	0.030	Salinas	Alisal Creek
24	86.16	86.17	NB	MVP-4	0.018	0.018	Salinas	Alisal Creek
25	86.22	86.26		Paving Beyond Gore	0.064	0.064	Salinas	Alisal Creek
26	86.23	86.24		Paving Beyond Gore	0.018	0.018	Salinas	Alisal Creek
27	86.57	86.58		Paving Beyond Gore	0.020	0.020	Salinas	Alisal Creek
28	86.63	86.64		Paving Beyond Gore	0.028	0.028	Salinas	Alisal Creek
29	86.66	86.70		Paving Beyond Gore	0.038	0.030	Salinas	Alisal Creek
30	86.91	86.92	SB	MVP-5	0.018	0.018	Salinas	Alisal Creek
31	87.96		SB	Relocate Electrical Cabinet	0.000	0.000	Salinas	Alisal Creek
32	89.34R		SB	Relocate Electrical Cabinet	0.000	0.000	Salinas	Salinas Reclamation Canal
3 Mile Separation				Subtotal	0.40	0.37		
	Route 101			San Benito County PM 00.0 - 7.5				
33	1.05	1.11		Paving Beyond Gore	0.070	0.070	Pajaro River	Carneros Creek
34	1.08	1.17	SB/NB	Paving Under Railing	0.000	0.000	Pajaro River	Carneros Creek
35	1.19	1.3		Paving Beyond Gore	0.240	0.240	Pajaro River	Carneros Creek
36	1.63		Median	Close Median	0.000	0.000	Pajaro River	Carneros Creek
37	1.97	1.98	NB	MVP-7	0.018	0.018	Pajaro River	Carneros Creek
38	1.98	1.99	SB	MVP-8	0.018	0.018	Pajaro River	Carneros Creek
39	2.73	2.75		Paving Beyond Gore	0.044	0.044	Pajaro River	Carneros Creek, San Benito River
40	2.82		NB	Remove Pullbox	0.001	0.000	Pajaro River	Carneros Creek, San Benito River
41	2.84L	2.87L		Paving Beyond Gore	0.102	0.102	Pajaro River	Carneros Creek, San Benito River
42	2.84R	2.86R		Paving Beyond Gore	0.076	0.061	Pajaro River	Carneros Creek, San Benito River
43	2.86		SB	Remove Pullbox	0.001	0.000	Pajaro River	Carneros Creek, San Benito River

DSA SEPARATION & WATER SHEDS p.2

44	2.87		SB	Pave inside Shoulder Drain	0.010	0.010	Pajaro River	San Benito River
45	2.91		SB	Remove Pullbox	0.001	0.000	Pajaro River	San Benito River
46	3.1R	3.11R		Paving Beyond Gore	0.033	0.026	Pajaro River	San Benito River
1.5 Mile Separation				Subtotal	0.61	0.59		
47	4.62R	4.63R		Paving Beyond Gore	0.112	0.112	Pajaro River	San Benito River, San Juan Creek, Pajaro River
48	4.69R	4.72R		Paving Beyond Gore	0.096	0.096	Pajaro River	San Benito River, San Juan Creek, Pajaro River
49	4.85	4.94		Paving Beyond Gore	0.223	0.178	Pajaro River	San Benito River, San Juan Creek, Pajaro River
50	4.93	4.96	NB	Move Pole Mounted Service	0.000	0.000	Pajaro River	San Benito River, San Juan Creek, Pajaro River
0.5 Mile Separation				Subtotal	0.43	0.39		
51	5.12	5.14		Paving Beyond Gore	0.033	0.033	Pajaro River	San Benito River, Pajaro River
52	6.10	6.26		Paving Beyond Gore	0.198	0.158	Pajaro River	San Benito River, Pajaro River
53	6.23	6.26		Paving Beyond Gore	0.061	0.040	Pajaro River	San Benito River, Pajaro River
54	6.7R	6.81R		Paving Beyond Gore	0.266	0.266	Pajaro River	Pajaro River
55	6.71R	6.75R		Paving Beyond Gore	0.043	0.043	Pajaro River	Pajaro River
Mile Separation				Subtotal	0.60	0.54		
				TOTAL	2.65	2.42		

RECEIVING WATER BODIES

Hydrologic Unit	Hydrologic Area	Hydrologic Sub-Area	HAS#	Receiving Water Body	Listing (303d, TMDL, ASBS	Pollutants of Concern
Pajaro River	Santa Cruz Mountains	Undefined	305.2	San Benito River	2010 303(d) list, TMDL	Boron, Electrical Conductivity, Escherichia coli (E. coli), Fecal Coliform, pH, Undnown Toxicity, Sedimentation/Siltation
Pajaro River	Santa Cruz Mountains	Undefined	305.2	Pajaro River	2010 303(d) list, TMDL	Boron, Chlordane, Chloride, Chlorpyrifos, DDD (Dichlorodiphenyldichloroethane), Dieldrin, Escherichia coli (E. coli), Fecal Coliform, Low Dissolved Oxygen, PCBs (Polychlorinated biphenyis), pH, Sodium, Turbidity, Nitrate, Nutrients, Sedimentation/Siltation
Pajaro River	Santa Cruz Mountains	Undefined	305.2	San Juan Creek	2010 303(d) list, TMDL	Escherichia coli (E. coli), Fecal Coliform, Low Dissolved Oxygen, Nitrate, Turbidity, Unknown Toxicity
Salinas	Chualar	Undefined	309.2	Santa Rita Creek	2010 303(d) list, TMDL	Ammonia, Escherichia coli (E. coli), Fecal Coliform, Low Dissolved Oxygen, Nitrate, Sodium, Turbidity
Salinas	Chualar	Undefined	309.2	Salinas Reclamation Canal	2010 303(d) list, TMDL	Ammonia, Chlorpyrifos, Copper, Diazinon, Escherichia coli, fecal Coliform, Low Dissolved Oxygen, Nitrate, Pesticides, pH, Priority Organics, Sediment Toxicity, Turbidity, Unknown Toxicity
Salinas	Chualar	Undefined	309.2	Natividad Creek	2010 303(d) list, TMDL	Ammonia, Escherichia coli, Low Dissolved Oxygen, Nitrate, Pesticides, pH, Sediment Toxicity, Temperature - water, Turbidity, Unknown Toxicity
Salinas	Chualar	Undefined	309.2	Alisal Creek	2010 303(d) list, TMDL	Chlorophyll-a, Fecal Coliform, Nitrate, Sodium
Salinas	Chualar	Undefined	309.2	Salinas River	2010 303(d) list, TMDL	Chlordane, Chloride, Chlorpyrifos, DDD, Diazinon, Dieldrin, Electrical Conductivity, Enterococcus, Escherichia coli, Fecal Coliform, Nitrate, PCBs, Pesticides, pH, Sodiumn, Total Dissolved Solids, Toxaphene, Turbidity, Unknown Toxity
Salinas	Chualar	Undefined	309.2	Chualar Creek	2010 303(d) list, TMDL	Ammonia, Chlorpyrifos, Diazinon, Escherichia coli, Fecal Coliform, Nitrate, pH, Temperature, water, Turbidity, Unknown Toxicity
Salinas	Chualar	Undefined	309.2	Esperanza	2010 303(d) list, TMDL	Nitrate

DATE: 6/11/2015

Project ID (or EA): (05-1F900K) 05-1300-0020-K

NO.	CRITERIA	YES ✓	NO ✓	SUPPLEMENTAL INFORMATION FOR EVALUATION
1.	Begin Project Evaluation regarding requirement for consideration of Treatment BMPs	✓		See Figure 4-1, Project Evaluation Process for Consideration of Permanent Treatment BMPs. Go to 2
2.	Is this an emergency project?		✓	If Yes, go to 10. If No, continue to 3.
3.	Have TMDLs or other Pollution Control Requirements been established for surface waters within the project limits? Information provided in the water quality assessment or equivalent document. As per the DNC, go to question #4	✓		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. PSR (Dist./Reg. SW Coordinator initials) If No, continue to 4.
4.	Is the project located within an area of a local MS4 Permittee?	✓		If Yes. *Salinas and Prunedale*, go to 5. If No, document in SWDR go to 5.
5.	Is the project directly or indirectly discharging to surface waters?	✓		If Yes, continue to 6. If No, go to 10.
6.	Is it a new facility or major reconstruction?		✓	If Yes, continue to 8. If No, go to 7.
7.	Will there be a change in line/grade or hydraulic capacity?		✓	If Yes, continue to 8. If No, go to 10.
8.	Does the project result in a net increase of one acre or more of new impervious surface? NNI + Redeveloped areas if applicable			If Yes, continue to 9. If No, go to 10. *(Net Increase New Impervious Surface)*
9.	Project is required to consider approved Treatment BMPs.		See Sections 2.4 and either Section 5.5or 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. PSR (Dist./Reg. Design SW Coord. Initials) WS (Project Engineer Initials) 6/15/15 (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*