STATE OF CALIFORNIA - CALIFORNIA TRANSPORTATION COMMISSION CTC-0001 (NEW 07/2018)

ROAD REPAIR AND ACCOUNTABILITY ACT OF 2017 PROJECT BASELINE AGREEMENT

State Route 46 Expressway Conversion - Antelope Grade Segment

Resolution TCEP-P-2021-07B

(will be completed by CTC)

1. FUNDING PROGRAM

Active Transportation Program

Local Partnership Program (Competitive)

- Solutions for Congested Corridors Program
- State Highway Operation and Protection Program

Trade Corridor Enhancement Program

2. PARTIES AND DATE

2.1 This Project Baseline Agreement (Agreement) for the State Route 46 Expressway Conversion - Antelope Grade Segment,

effective on,June 23, 2021(will be completed by CTC), is made by and between the California TransportationCommission (Commission), the California Department of Transportation (Caltrans), the Project Applicant,Caltrans, and the Implementing Agency,Caltrans, sometimes collectively referred to as the "Parties".

3. RECITAL

- 3.2 Whereas at its December 2, 2020 meeting the Commission approved the Trade Corridor Enhancement Program, and included in this program of projects the *State Route 46 Expressway Conversion Antelope Grade Segment*, the parties are entering into this Project Baseline Agreement to document the project cost, schedule, scope and benefits, as detailed on the Project Programming Request Form attached hereto as Exhibit A and the Project Report attached hereto as Exhibit B, as the baseline for project monitoring by the Commission.
- 3.3 The undersigned Project Applicant certifies that the funding sources cited are committed and expected to be available; the estimated costs represent full project funding; and the scope and description of benefits is the best estimate possible.

4. GENERAL PROVISIONS

The Project Applicant, Implementing Agency, and Caltrans agree to abide by the following provisions:

- 4.1 To meet the requirements of the Road Repair and Accountability Act of 2017 (Senate Bill [SB] 1, Chapter 5, Statutes of 2017) which provides the first significant, stable, and on-going increase in state transportation funding in more than two decades.
- 4.2 To adhere, as applicable, to the provisions of the Commission:

	Resolution	Insert Number	, "Adoption of Program of Projects for the Active Transportation Program", dated
	Resolution	Insert Number	, "Adoption of Program of Projects for the Local Partnership Program", dated
	Resolution	Insert Number	, "Adoption of Program of Projects for the Solutions for Congested Corridors Program", dated
	Resolution	Insert Number	, "Adoption of Program of Projects for the State Highway Operation and Protection Program", dated
\boxtimes	Resolution	TCEP G-20-77, '	Adoption of Program of Projects for the Trade Corridor Enhancement Program", dated December 2, 2020

- 4.3 All signatories agree to adhere to the Commission's Trade Corridor Enhancement Program, Guidelines. Any conflict between the programs will be resolved at the discretion of the Commission.
- 4.4 All signatories agree to adhere to the Commission's SB 1 Accountability and Transparency Guidelines and policies, and program and project amendment processes.
- 4.5 Caltrans agrees to secure funds for any additional costs of the project.
- 4.6 Caltrans agrees to report on a quarterly basis; after July 2019, reports will be on a semi-annual basis on the progress made toward the implementation of the project, including scope, cost, schedule, outcomes, and anticipated benefits.
- 4.7 Caltrans agrees to prepare program progress reports on a quarterly basis; after July 2019, reports will be on a semi-annual basis and include information appropriate to assess the current state of the overall program and the current status of each project identified in the program report.
- 4.8 Caltrans agrees to submit a timely Completion Report and Final Delivery Report as specified in the Commission's SB 1 Accountability and Transparency Guidelines.
- 4.9 All signatories agree to maintain and make available to the Commission and/or its designated representative, all work related documents, including without limitation engineering, financial and other data, and methodologies and assumptions used in the determination of project benefits during the course of the project, and retain those records for four years from the date of the final closeout of the project. Financial records will be maintained in accordance with Generally Accepted Accounting Principles.
- 4.10 The Transportation Inspector General of the Independent Office of Audits and Investigations has the right to audit the project records, including technical and financial data, of the Department of Transportation, the Project Applicant, the Implementing Agency, and any consultant or sub-consultants at any time during the course of the project and for four years from the date of the final closeout of the project, therefore all project records shall be maintained and made available at the time of request. Audits will be conducted in accordance with Generally Accepted Government Auditing Standards.

5. SPECIFIC PROVISIONS AND CONDITIONS

- 5.1 <u>Project Schedule and Cost</u> See Project Programming Request Form, attached as <u>Exhibit A</u>.
- 5.2 Project Scope

See Project Report or equivalent, attached as <u>Exhibit B</u>. At a minimum, the attachment shall include the cover page, evidence of approval, executive summary, and a link to or electronic copy of the full document.

5.3 Other Project Specific Provisions and Conditions

In the event of a cost overrun the state will cover a share proportionate to the state contribution of the TCEP funding identified in the Project Programming Request (PPR) attached to this baseline agreement. (For example, if the state/regional TCEP funding share was a 40/60 ratio, the state may fund no more than 40% of the cost overrun.)

Attachments:

Exhibit A: Project Programming Request Form Exhibit B: Project Report

SIGNATURE PAGE TO PROJECT BASELINE AGREEMENT

State Route 46 Expressway Conversion - Antelope Grade Segment

Resolution TCEP-P-2021-07B

05/13/2021

6/17/21

Timotay M. Gubbins District Director, California Department of Transportation, District 5 Project Applicant and Implementing Agency

2

Toks Omishakin Director, California Department of Transportation

tileh W-

Mitchell Weiss Executive Director, California Transportation Commission

Date.

07/16/21

Date

Date

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION **PROJECT PROGRAMMING REQUEST (PPR)**

PRG-0010 (REV 08/2020)

Amendment (Existin	ng Project) 🗌 YES	NO			Date 06/08/2021 08:53:21		
Programs L	.PP-C LPP-	F SCCP	TCEP S	TIP Other			
District	EA	Project ID	PPNO	ng Agency			
05	3307E	0518000075	0226L	District 5			
County Route		PM Back	PM Ahead	Co-Nominating Agency			
San Luis Obispo	46	57.300	60.800				
VAR	46			MPO	Element		
				SLOCOG	Capital Outlay		
Pr	oject Manager/Cont	act	Phone	Email A	Address		
	David Rasmussen		805-835-6328	david.rasmussen@dot.ca.gov			
Project Title							

Project Title

SR 46 Expressway Conversion - Antelope Grade Segment

Location (Project Limits), Description (Scope of Work)

On State Route 46, in San Luis Obispo County near Cholame from east of State Route 46/41 Intersection east to Kern County Line.

Convert existing 2-lane conventional highway to 4-lane divided expressway.

Component			Implementing A	Agency				
PA&ED	Caltrans District 5							
PS&E	Caltrans District 5							
Right of Way	Caltrans District 5							
Construction	Caltrans District 5							
Legislative Districts								
Assembly:	33	Senate:	15	Congressional:	24			
Project Milestone		Existing	Proposed					
Project Study Report /	Approved	06/16/2000						
Begin Environmental ((PA&ED) Phase				07/02/2003			
Circulate Draft Enviror	nmental Document	Document Type	(ND/MND)/FONSI		01/30/2005			
Draft Project Report					01/30/2005			
End Environmental Ph	nase (PA&ED Milestone)				06/29/2005			
Begin Design (PS&E)	Phase				08/01/2018			
End Design Phase (R	eady to List for Advertise	ement Milestone)			06/07/2023			
Begin Right of Way Pl	nase				06/01/2022			
End Right of Way Pha	se (Right of Way Certific	cation Milestone)			06/05/2023			
Begin Construction Ph	nase (Contract Award Mi	lestone)			01/12/2024			
End Construction Pha	se (Construction Contra	ct Acceptance Miles	stone)		12/18/2026			
Begin Closeout Phase	;				12/18/2026			
End Closeout Phase (Closeout Report)				12/13/2028			

PRG-0010 (REV 08/2020)

Purpose and Need

Purpose: To reduce congestion, enhance safety, reduce driver frustration, provide safe-passing opportunities, facilitate efficient goods movement and enhance mobility for major east/west travel from the Central Coast and US 101 to the San Joaquin Valley and Interstate 5.

Need: This portion of SR 46 traverses rolling to mountainous terrain and includes sustained grades up to 6%. Heavy trucks and recreational vehicles comprise 20 percent of the traffic volume within the project limits. The limited opportunities in this segment to safely pass slower moving trucks or recreational vehicles contribute to driver frustration.

Based on current traffic volumes, the current facility within the project limits exceeds capacity. The projected volumes of traffic, most notably the number of trucks and recreational vehicles traveling the route, are higher than optimum levels recommended for a two-lane conventional highway. In addition, this roadway experiences even greater congestion on weekends when travel demand is the greatest. By providing additional lanes, the proposed project would reduce traffic congestion by improving the capacity of this heavily traveled east-west corridor.

The added lane in each direction would help to eliminate the traffic conflicts associated with vehicular movements on the existing two-lane conventional highway. Generally, four-lane facilities have fewer accidents per mile than two-lane conventional highways.

Lastly, the purpose of this four-lane expressway is to provide route continuity. Four project segments to the west of this project are completed with two more in design. All of these projects will improve SR 46 to a four-lane expressway and provide route continuity from US 101 to Interstate 5.

NHS Improvements X YES NO	R	Roadway Class 1		Reversible Lar	Reversible Lane Analysis 🛛 YES 🗌 NO			
Inc. Sustainable Communities Strategy	Goals 🔀	YES 🗌 NO	NO Reduce Greenhouse Gas Emissions 🔀 YES 🗌 NO					
Project Outputs								
Category		Outp	outs	Unit	Total			
Pavement (lane-miles)	Roadway	way lane miles			7.8			

PRG-0010 (REV 08/2020)

Date 06/08/2021 08:53:21

Additional Information

The project achieved PA&ED under the parent project and identified the preferred alternative as the "Build Alternative". As preliminary designs progressed, a new alignment was determined to be a better alignment than the one that was studied under the parent project's environmental document. This required a supplemental document to be prepared along with the supplemental project report. Both of those will be available for review by the CTC when we submit our Future Consideration of Funds at the time of our TCEP funds allocation for R/W.

A Supplemental Environmental Document is in process and is anticipated in March 2022.

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION **PROJECT PROGRAMMING REQUEST (PPR)**

PRG-0010 (REV 08/2020)

		Performance Indica	ators and Measure	S		
Measure	Required For	Indicator/Measure	Unit	Build	Future No Build	Change
Congestion Reduction	TCEP	Daily Vehicle Hours of Travel Time Reduction	Hours	523	1,360	-837
	TCEP	Daily Truck Trips	# of Trips	2,556	2,556	0
	TCEP	Daily Truck Miles Traveled	Miles	9,968	9,968	0
Throughput	TCEP	Change in Truck Volume That Can Be Accommodated	# of Trucks	761,025	585,460	175,565
	TCEP	Change in Rail Volume That Can Be	# of Trailers	0	0	0
	TCEP	Accommodated	# of Containers	0	0	0
	TCEP	Change in Cargo Volume That Can Be	# of Tons	0	0	0
	TOLI	Accommodated	# of Containers	0	0	0
System Reliability	TCEP	Truck Travel Time Reliability Index	Index	1.11	1.28	-0.17
	TCEP	Daily Vehicle Hours of Travel Time Reduction	Hours	523	1,360	-837
Velocity	TCEP Travel Time or Total Cargo Transport		Hours	3.6	9.3	-5.7
Air Quality &	LPPF, LPPC,		PM 2.5 Tons	14.6	14.6	0
GHG	SCCP, TCEP	Particulate Matter	PM 10 Tons	58.4	58.4	0
	LPPF, LPPC, SCCP, TCEP	Carbon Dioxide (CO2)	Tons	119,377	141,540	-22,163
	LPPF, LPPC, SCCP, TCEP	Volatile Organic Compounds (VOC)	Tons	0	1	-1
	LPPF, LPPC, SCCP, TCEP	Sulphur Dioxides (SOx)	Tons	0	0	0
	LPPF, LPPC, SCCP, TCEP	Carbon Monoxide (CO)	Tons	124	212	-88
	LPPF, LPPC, SCCP, TCEP	Nitrogen Oxides (NOx)	Tons	58	168	-110
Safety	LPPF, LPPC, SCCP, TCEP	Number of Non-Motorized Fatalities and Non-Motorized Serious Injuries	Number	0	0	0
	LPPF, LPPC, SCCP, TCEP	Number of Fatalities	Number	0.73	1	-0.27
	LPPF, LPPC, SCCP, TCEP	Fatalities per 100 Million VMT	Number	1.28	1.75	-0.47
	LPPF, LPPC, SCCP, TCEP	Number of Serious Injuries	Number	2.21	3	-0.79
	LPPF, LPPC, SCCP, TCEP	Number of Serious Injuries per 100 Million VMT	Number	3.78	5.14	-1.36
Economic Development	LPPF, LPPC, SCCP, TCEP	Jobs Created (Direct and Indirect)	Number	1,114	0	1,114
Cost Effectiveness	LPPF, LPPC, SCCP, TCEP	Cost Benefit Ratio	Ratio	0.4	0	0.4

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION PROJECT PROGRAMMING REQUEST (PPR)

PPR ID ePPR-D05-2020-0007 v1

PRG-0010 (REV 08/2020)

Project Title			

SR 46 Expressway Conversion - Antelope Grade Segment

		Exis	ting Total P	roject Cos	t (\$1,000s)				
Component	Prior	20-21	21-22	22-23	23-24	24-25	25-26+	Total	Implementing Agency
E&P (PA&ED)									Caltrans District 5
PS&E									Caltrans District 5
R/W SUP (CT)									Caltrans District 5
CON SUP (CT)									Caltrans District 5
R/W									Caltrans District 5
CON									Caltrans District 5
TOTAL									
		Prop	osed Total I	Project Cos	st (\$1,000s)				Notes
E&P (PA&ED)									
PS&E			10,300					10,300	
R/W SUP (CT)			1,400					1,400	
CON SUP (CT)					11,900			11,900	
R/W			7,600					7,600	
					70,100			70,100	
CON		-	19,300		82,000			101,300	1

Fund #1:	Other Fed	- Highway	Infrastructu	re Progran	n (HIP) (Co	mmitted)			Program Code
	•		Existing Fu	unding (\$1,	000s)				
Component	Prior	20-21	21-22	22-23	23-24	24-25	25-26+	Total	Funding Agency
E&P (PA&ED)									San Luis Obispo Council of Governm
PS&E									
R/W SUP (CT)									
CON SUP (CT)									
R/W									
CON									
TOTAL									
	•		Proposed F	unding (\$1	,000s)				Notes
E&P (PA&ED)									
PS&E									
R/W SUP (CT)									
CON SUP (CT)									
R/W			1,270					1,270	
CON									
TOTAL			1,270					1,270	

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION **PROJECT PROGRAMMING REQUEST (PPR)**

Fund #2:	Future Ne	ed - Future	Funds (Und	committed)					Program Code
			Existing Fu	Inding (\$1,	000s)				
Component	Prior	20-21	21-22	22-23	23-24	24-25	25-26+	Total	Funding Agency
E&P (PA&ED)									Caltrans District 5
PS&E	-								
R/W SUP (CT)	-								
CON SUP (CT)	_								
R/W	_								
CON	-								
TOTAL	_								
	_		Proposed F	unding (\$1	,000s)				Notes
E&P (PA&ED)									
PS&E									
R/W SUP (CT)									
					11,900				
CON					70,100				
TOTAL			· · · · · · · · · · · · · · · · · · ·						
Fund #3:	IIP - Natio	nal Hwy Sy	stem (Comr	nitted)	• · · ·				Program Code
			Existing Fu	Inding (\$1,	000s)				
Component	Prior	20-21	21-22	22-23	23-24	24-25	25-26+	Total	Funding Agency
E&P (PA&ED)									Caltrans District 5
PS&E	_								
R/W SUP (CT)	_								
CON SUP (CT)	-								
R/W	_								
CON	-								
TOTAL									
		1	Proposed F	unding (\$1	,000s)		ļ		Notes
E&P (PA&ED)									
PS&E			10,300					10,300	
R/W SUP (CT)									1
CON SUP (CT)									1
R/W									
CON									
TOTAL			10,300					10,300	1

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION PROJECT PROGRAMMING REQUEST (PPR)

Fund #4:	RSTP - S	TP Local (C	Committed)						Program Code
			Existing Fu	unding (\$1	,000s)				
Component	Prior	20-21	21-22	22-23	23-24	24-25	25-26+	Total	Funding Agency
E&P (PA&ED)									San Luis Obispo Council of Governm
PS&E									
R/W SUP (CT)	_								
CON SUP (CT)	_								
R/W									
CON	_								
TOTAL	_								
	_		Proposed F	unding (\$	1,000s)				Notes
E&P (PA&ED)									
PS&E									
R/W SUP (CT)									
			430						
CON									
TOTAL									
Fund #5:	State SB1	TCEP - Tr	ade Corrido	rs Enhanc	ement Acco	ount (Comr	nitted)		Program Code
Component	Prior	20-21	21-22	22-23	23-24	24-25	25-26+	Total	Funding Agency
E&P (PA&ED)						-			Caltrans HQ
PS&E									
R/W SUP (CT)	-								
CON SUP (CT)	_								
R/W	_								
CON	-								
TOTAL									
			Proposed F	unding (\$	1,000s)				Notes
E&P (PA&ED)									Includes \$7.3 million from the State
PS&E									share of the program.
R/W SUP (CT)			1,400					1,400	
CON SUP (CT)									
R/W			5,900					5,900	1
CON									1
TOTAL			7,300					7,300	1

Memorandum

Making Conservation a California Way of Life

Project: State Route 46 Expressway Conversion -Antelope Grade Segment 05-3307E, 0518000075 SLO-46 PM 55.1-60.9 Date: May 13, 2021

Subject: Environmental Executive Summary

Original Project Report

The original Project Report was for 05-0C650 and the Initial Study/Updated Environmental Assessment (2005 IS/EA) was combined with two other project's in District 6 (06-35341 and 06-44250) as the San Luis Obispo and Kern Counties State Route 46 4-Lane Widening Project which was approved in 2005. The preferred alternative was Alternative 3 to widen State Route 46 to four lanes. The State Route 46 Expressway Conversion - Antelope Grade Segment project 05-3307E was later split from this project.

The purpose of this four-lane expressway is to provide route continuity. Four project segments to the west of this project are completed with two more in design. All of these projects will improve SR 46 to a four-lane expressway and provide route continuity from US 101 to Interstate 5. The *Widening Project* is needed due to current and predicted future traffic capacity problems as well as a higher than average collision rate.

Purpose

The purpose of the Widening Project remains the same as what is described in the Initial Study/Updated Environmental Assessment (2005 IS/EA) - to reduce congestion, improve level of service, improve safety, and provide route continuity. The Widening Project serves to provide a continuous east-west four-lane expressway corridor through San Luis Obispo County. Route 46 serves as a major corridor for heavy trucks and recreational traffic traveling from the San Joaquin Valley and Interstate 5 to the Central Coast and Route 101. The route supports the annual movement of \$7 billion of goods shipments between the two regions, accounting for an estimated 575,000 jobs, as well as \$5 billion in tourism within the Central Coast region (2019 SLOCOG RTP).

The proposed project would provide route continuity by improving Route 46 to the same standards completed by the other adjoining sections at the Wye, Cholame, Whitley, and Estrella segments in San Luis Obispo County and the Kecks Corner and Lost Hills segments in Kern County. These projects, proposed in

Supplemental PR 05-330 E, 0518000075 SLO-46 PM 55.1/60.9 Page 2

previous environmental documents, along with this proposed project would provide a continuous four-lane expressway from U.S. Highway 101 in San Luis Obispo County to Interstate 5 in Kern County and a new interchange at the existing State Route 46/41 at-grade intersection.

Route 46 Antelope Project

The State Route 46 Expressway Conversion - Antelope Grade Segment project 05-3307E will connect the proposed four-lane expressway and updated interchange at State Route 46 (known as the Route 46/41 Wye project 05-3307C,) with the expanded four-lane expressway already constructed as part of the State Route 46 4-Lane Widening Project (*Widening Project*) from the Kern County boundary to Interstate 5. The proposed project is to widen a 3.9-mile section of State Route 46 at Antelope Grade from a two-lane highway to a four-lane expressway. The project spans from postmile 55.1 in San Luis Obispo County to postmile 0.4 in Kern County. A 62-foot wide median will separate the proposed four-lane highway.

Project Status/Design

A Supplemental Draft Initial Study/Updated Environmental Assessment (Supplemental IS/EA) is currently being prepared and the draft is expected to be publicly circulated in December 2021. The Supplemental IS/EA evaluates the impacts of the newly proposed Build Alternative as well as analyzes changes in the environmental setting, best management practices, minimization and mitigation measures, and changes in laws, regulations, and guidance since finalization of the 2005 IS/EA. The Supplemental IS/EA document is intended to be a supplement to the 2005 IS/EA and subject areas that have not changed will not be discussed further. At this time, the final document is anticipated to be completed and signed by March 1, 2022.

A complete evaluation of the original design layout identified numerous nonstandard features that would be inconsistent with a 4-lane expressway conversion. These non-standard features included horizontal and vertical curves and a 6% profile grade. Therefore, Design further investigated alternatives that would meet current expressway standards. This has led to a new alignment alternative routed through a canyon to the north of the previous alignment. The project development team walked the entire footprint of the proposed alignment to determine if any fatal flaws existed. No fatal flaws were identified, and the proposal was advanced for further study. Additional advantages to this alignment include the reduction of impacts to existing underground utilities and avoidance of a known archaeological site. Technical studies are currently underway and expected to be completed by Summer 2021. A draft Project Report will be completed concurrently with the supplemental Environmental Document. When the final Environmental Document is complete, a final Project Report will also be completed.

Supplemental PR 05-3307E, 0518000075 SLO-46 PM 55.1/60.9 Page 3

Link to 2005 IS/EA

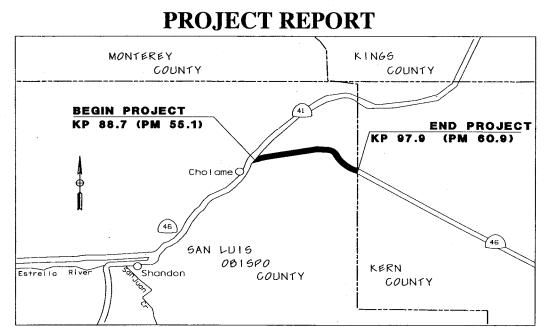
https://documentcloud.adobe.com/link/track?uri=urn:aaid:scds:US:de667336-c552-438f-b9af-486a89f79615

Link to 2005 Project Report

https://documentcloud.adobe.com/link/track?uri=urn:aaid:scds:US:54ade4dd-7385-4f4a-9cec-16255166702d



05-SLO-46 KP 88.7/97.9 (PM 55.1/60.9) 06258-0C6500 HE13 (20.10.025.700 & 20.10.075.600)



On State Route 46, in San Luis Obispo County near Cholame from State Route 46/41 Intersection east to Kern County Line

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:

hr SPIROS KARIMBAKAS CENTRAL REGION, ACTING CHIEF - RIGHT OF WAY

APPROVAL RECOMMENDED BY:

Voni

THOMAS E. HOUSTON

PROJECT MANAGER

APPROVED BY:

GRÆGG ALBRIGHT

DISTRICT DIRECTOR, DISTRICT 5

CONCURRENCE BY:

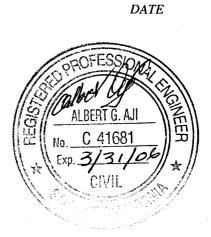
MIKE LEONARDO DISTRICT DIRECTOR, DISTRICT 6-CENTRAL REGION

05-SLO-46 KP 88.7/97.9 (PM 55.1/60.9) 06258-0C6500

5/9/05

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.

ALBERT AS REGISTERED CIVIL ENGINEER



PROJECT REPORT

1. INTRODUCTION

It is proposed to improve an existing two-lane segment of State Route 46 (SR 46) by reducing the conflicts between slow and fast moving traffic, improving traffic safety, and accommodating existing and future interregional travel. The project limits extend from the junction of State Routes 41 and 46 (referred to as the "Wye") east to the Kern County Line, KP 88.7 to KP 97.9. The Project Initiation Document (PID) signed on June 16, 2000 proposed four alternatives including the "No-Build" alternative. The preferred alternative (Alternative 3) in this Project Report (PR) proposes to construct two westbound lanes north of the existing alignment with an 18.6-meter median and overlay the existing lanes for use as eastbound lanes. The current estimated total project cost is \$48,563,000, which includes \$1,678,000 for right of way and \$46,885,000 for cost of costruction. The project is currently funded through PA&ED only. It is proposed to fund the project from the 20.xx.025.700 Interregional Improvement Program and the 20.xx.075.600 Regional Improvement Program in the 2008 STIP cycle. The right of way estimate should be revised prior to programming Right of Way Capital. This project has been assigned Project Development Processing Category 4A because it requires substantial new right of way and increases traffic capacity.

2. <u>RECOMMENDATION</u>

It is recommended that this Project Report be approved using the preferred alternative (Alternative 3) and that the project proceed to the Design (PS&E) phase.

3. <u>BACKGROUND</u>

A. Project History

On a year-round basis, SR 46 functions as a significant interregional route for recreational traffic to and from the Central Coast/Central Valley. SR 46 serves as a major corridor for heavy trucks, particularly for agricultural products, and is essential for interstate and regional commerce, tourism travel, intermodal transfer facilities, and trade.

On December 8, 1999, the SLOCOG Board approved the four-lane expressway concept for SR 46 as part of their plan to upgrade the corridor in San Luis Obispo County.

In July 2000, a PSR was completed and approved for this project. The PSR contains three build alternatives and a "No-Build" alternative. Two of the proposed build alternatives propose to convert the existing two-lane conventional highway to a four-lane expressway. Currently, this project is funded through PA&ED only.

05-SLO-46 KP 88.7/97.9 (PM 55.1/60.9) 06258-0C6500

B. Community Interaction

There has been considerable media attention given to what some perceive as San Luis Obispo County's "blood alley". Several high profile, multi-vehicle, multiple-fatality accidents have occurred within the corridor. Since late 1995, safety improvement projects have been proposed and implemented in attempts to decrease the accidents within the corridor. In January 1996, concerned citizens established a grassroots committee (FIX 46) to facilitate the construction of safety projects and convert the facility from the two-lane highway to a four-lane divided expressway. Caltrans and the committee's efforts included obtaining grants for increased law enforcement along the route, increasing fines for motorists caught driving in an unsafe manner, installation of temporary k-rail in areas of high accident concentrations, designation of the project area as a daytime headlight zone, and installation of soft median barrier with shoulder rumble strips.

Public support of the project is very high among residents of not only San Luis Obispo County, but the Central Valley as well. Much of the weekend traffic consists of families who live in the metropolitan areas of Fresno and Bakersfield vacationing along the Central Coast. For this portion of the public, SR 46 offers the only feasible corridor to travel to the coast. On holiday and summertime weekends, travelers coming from these metropolitan areas converge on SR 46 causing congestion and significant traffic delays.

C. Existing Facility

State Route 46 is a major interregional route that connects the Central Valley of California with the Central Coast area. State Route 46 runs east/west starting at the junction of State Routes 1 and 46 in San Luis Obispo County and extending east through Caltrans Districts 5 and 6, ending at State Route 99 in Kern County.

Within the proposed project limits, the existing SR 46 is a two-lane conventional highway consisting of 3.6-meter wide lanes and outside shoulder widths that vary from 1.0 to 2.4 m. The right of way width throughout the project limits varies from 50 to 140 m. The existing alignment of State Route 46 was originally constructed in 1959 and included widened sections for passing from KP 92.1 to KP 92.8 (PM 57.2 to 57.6) and from KP 94.6 to KP 95.5 (PM 58.8 to PM 59.3). A subsequent widening project constructed in 1992 (EA 05-363001) provided a westbound passing lane from KP 95.4 to KP 97.0 (PM 59.3 to PM 60.3).

A 2002 traffic analysis showed an average annual daily traffic (AADT) of 6,700 vehicles, with an average of 21% trucks.

4. NEED & PURPOSE

A. Problems, Deficiencies, Justification -

This portion of SR 46 traverses rolling to mountainous terrain and includes sustained grades up to 6%. Heavy trucks and recreational vehicles in both directions comprise 14 percent of the design hourly volume within the project limits. The limited opportunities in this segment to safely pass slower moving truck or recreational vehicles contribute to driver frustration.

Based on projected traffic volumes (see Table 1) the current facility within the project limits will exceed capacity by the year 2007. The projected volumes of traffic, most notably the number of trucks and recreational vehicles traveling the route, are higher than optimum levels recommended for a two-lane conventional highway. In addition, this roadway experiences even greater congestion on weekends when travel demand is the greatest. By providing additional lanes, the proposed project would reduce traffic congestion by improving the capacity of this heavily traveled east-west corridor.

The added lane in each direction would help to eliminate the traffic conflicts associated with vehicular movements on the existing two-lane conventional highway. Generally, four-lane facilities have fewer accidents per mile than two-lane conventional highways.

Lastly, the purpose of this four-lane expressway is to provide route continuity. Five projects east and west of this project are currently programmed either through construction or Project Approval & Environmental Document. All of these projects will improve SR 46 to a four-lane expressway and provide route continuity from SR 101 to U.S. Route 5.

B. Regional and System Planning

State Route 46 was adopted into the California Highway System in 1915 and is part of the California Freeway and Expressway System. Under the Federal Surface Transportation Act of 1982 (STAA) SR 46, from SR 101 to Interstate 5, is designated as a State Highway Terminal Access Route for trucks up to 32 m (105 feet) in length. It is also designated for the transport of explosives and hazardous materials (including rocket fuels). It is a State Highway Extra Legal Load (SHELL) Route and is included in the National Highway System (NHS). This portion of SR 46 is designated as a High Emphasis East-West Focus Route in the Caltrans Interregional Transportation Strategic Plan (ITSP).

In San Luis Obispo County, SR 46 was designated for expansion to a four-lane facility from U.S. 101 to Interstate 5 in Kern County per the Caltrans Interregional Transportation Strategic Plan (ITSP), dated June 1998. According to the San Luis Obispo Council of Governments staff (SLOCOG) report dated July 1999, "Traffic volumes along the Route 1, 101, 41/46 corridor are expected to continue to grow faster than the rate of local growth as a result of the State's population and economy". On

December 8, 1999, the SLOCOG Board approved the four-lane expressway concept for SR 46 as part of their plan to upgrade the corridor in San Luis Obispo County.

The Transportation Concept Report for SR 46 (dated July 2001), which describes the current and projected operation of a State Highway corridor over a 20-year period, plans for a four-lane expressway with a 65.5-meter wide right of way for this route.

C. Traffic

SLOCOG has established Level Of Service (LOS) C as the acceptable level for SR 46. The current LOS within the project limits is C. As indicted in Table 1, the projected LOS for the year 2027 will fall to D with the increase in the average daily traffic. Weekends will experience even lower levels of service and higher volumes of traffic.

The projected Average Daily Traffic (ADT) and Operational Level of Service for this project are as follows:

DESIGN PERIOD ADT	<u>YEAR 2001</u> 6700	<u>YEAR 2007</u> 7300	<u>YEAR 2027</u> 9600
LOS	С	D	D
without project			
LOS		А	А
with project			

TABLE 1

Collision data was obtained from TASAS Table B (see Attachment G) for the three-year period beginning 01-04-01 to 31-03-04 and is summarized in Table 2. The average collision rate for a segment of highway or an intersection is based on the highway characteristics (i.e., number of lanes and geometrics) and vehicle miles. The collision rates per million vehicle kilometers (ACCS/MVKm) within the project limits are as follows:

TABLE 2

N	UMBER	OF		R	ATE (AC	CCS/MVI	Km)	
A	CCIDEN	ITS		Actual		State Average		
Total	Fatal	F&I	Total	Fatal	F&I	Total	Fatal	F&I
18	1	9	0.47	0.026	0.26	0.60	0.022	0.28

In addition to low LOS, the observed accident rates for the actual fatal accident rate are slightly higher within the project limits compared to similar roadways throughout the state. (See Attachment G for TASAS Table B data)

5. <u>ALTERNATIVES</u>

A. Preferred Alternative

Alternative 3 would provide a 110 km/h design speed throughout the project limits. This alternative would widen SR 46 to four lanes by constructing an 11.7-meter

westbound roadbed to the north of the existing roadbed and upgrading the existing roadbed for eastbound traffic. All existing horizontal and vertical curves that do not meet the current design standards for a 110-km/h design speed would be upgraded to standard. The existing roadway would be rehabilitated to meet all current design standards for a four-lane expressway. A standard 18.6-meter median between the opposing lanes would be provided. The following would be incorporated on all slopes: slope rounding, eliminating or minimizing slope benching, and contour grading on highly visible slope modifications to create more natural landscape forms. Where feasible, excessive cuts would be avoided through changes to the horizontal alignment or vertical profile.

Two adjacent projects, 05-330800 (SLO-50.2/55.9) and 06-442500 (KER-0.0/7.3), are scheduled to be constructed before this section of Route 46. Coordination with these two projects would be required during PS&E. Project 05-330800 will determine the location and type of interchange between Routes 46 and 41. The project limits of this project will be adjusted accordingly.

A Preliminary Geotechnical Report has been completed and is included in the project files. The proposed alternative will mostly impact slopes to the north of the existing alignment. Rock-fall potential and level of maintenance required for the proposed cut slopes would be taken into consideration during the design of the project. A Geotechnical Design Report would be required to provide final design recommendations and specifications.

Construction of Alternative 3 would increase the LOS to A for the years 2007 and 2027. There are no mandatory or advisory design exceptions anticipated for this alternative. The San Luis Obispo Council of Governments concurs with the decision to use this alternative as the preferred alternative. The current estimated total project cost is \$48,563,000.

Project Features

1. Nonstandard Mandatory and Advisory Design Features

None.

2. Interim Features

None.

3. High Occupancy Vehicle (HOV)

None.

4. Ramp Metering

None.

5. CHP Enforcement Areas

None.

6. Park and Ride Facilities

None.

7. Utility and Other Owner Involvement

There is a concentration of utilities at the beginning of the project. Most of these utilities (gas, water, jet fuel, and oil) are perpendicular to the existing alignment. The construction of new lanes will match the existing profile and will not require excavation in this location.

There are two oil lines south of the existing highway. These lines generally run parallel to the highway for the entire length of the project. These oil lines cross over to the north side of the highway further east of the beginning of the project. The oil lines will have to be relocated in this location due to excavation for the new lanes.

8. Railroad Involvement

None.

9. Highway Planting

Slopes would be 1:2 or flatter for cut slopes and 1:4 or flatter for fill slopes. If steeper slopes are necessary due to physical constraints they must be approved individually. The impact on existing vegetation would also be minimized or mitigated for using replacement planting.

10. Erosion Control

Erosion control will be required along the entire length of the project. The cost is included in the estimate.

11. Noise Barriers

None.

12. Non-Motorized and Pedestrian Features

All viable alternatives include shoulders with adequate width to accommodate touring bicyclists.

13. Needed Roadway Rehabilitation and Upgrading

Alternative 3 would correct the crown of the existing lanes to a standard lane slope. The project would also correct all existing horizontal and vertical

curves that do not currently meet the requirements for a 110 km/h design speed.

14. Current Cost Estimates

Alternative 3

Roadway	\$46,885,000
Structures	\$0.0
Total Construction	\$46,885,000
Right of Way	<u>\$ 1,678,000</u>
Total Project	\$48,563,000

B. Rejected Alternatives

Alternative 1: This alternative was rejected because it would require a design exception for a nonstandard stopping sight distance for the vertical curve between KP 94.5 to 95.8. This alternative was proposed in order to reduce the amount of excavation required for the construction of the median and two lanes. It was determined that the savings in excavation (300,000 m3) would reduce the construction cost of the project by \$4,620,000. The Project Development Team determined that these savings did not offset the need for the required design exception and reduction in stopping sight distance.

Alternative 2: This alternative was rejected due to the construction of the climbing lane proposed by the programmed project 05-453700 that is within the limits of this proposed project.

Alternative 4 the "No-Build" alternative: This alternative was rejected because it would leave this stretch of SR 46 as the only 2-lane conventional section from US 101 in Paso Robles to Interstate 5 near Lost Hills when all programmed projects on this corridor are constructed. This alternative also does not address the conflicts between slow and fast moving traffic.

6. <u>CONSIDERATIONS REQUIRING DISCUSSION</u>

A. HAZARDOUS WASTE

One site has been identified within the project limits, Polonio Pass Pumping Plant (KP 96.5), as having potential hazardous waste. IT Corporation completed an initial site assessment (ISA) for Caltrans on properties adjacent to Caltrans right-of-way between KP 90.0 through 98.0. It was recommended that prior to purchasing or developing land near the sites identified as having recognized environmental concerns, Caltrans conduct a Phase II assessment of the subsurface soil and groundwater, if appropriate.

An aerially-deposited lead investigation was also conducted within the unpaved outside shoulders of SR 46 within the project limits. Statistical analysis of data developed from the aerially-deposited lead investigation indicates that overall lead concentration in the soil within the project limits does not exceed the regulatory threshold for lead outlined in Title 22, California Code of Regulations (CCR).

B. VALUE ANALYSIS

Value Analysis will be required for this project. Since the earliest expected date for PS&E would be 2008, formal Value Engineering for this project will not be required for Fiscal Year 04/05 and should be delayed until PS&E funding is programmed by the CTC in 2008 (at the earliest).

C. RESOURCE CONSERVATION

Large sections of the existing traffic lanes would be overlaid and used for the eastbound traffic. Where feasible, existing material would be salvaged and incorporated into the final design.

D. RIGHT OF WAY ISSUES

Alternative 3 would require 30 hectares (12 parcels) of new right of way to be purchased. The displacement of residents or businesses would not be required. The right of way estimate should be revised prior to programming Right of Way Capital.

E. ENVIRONMENTAL ISSUES

100

The Environmental Assessment/Initial Study has been prepared in accordance with Caltrans' environmental procedures as well as State and Federal environmental regulations. This Environmental Assessment/Initial Study examines the potential environmental impacts for three proposed projects within San Luis Obispo and Kern Counties. The Environmental Assessment/Initial Study (Finding of No Significant impact/Negative Declaration) is the appropriate document for the proposal.

The proposed project would impact approximately 0.56 acres of prehistoric archaeological site, (CA-SLO-1355) that was determined eligible for listing in the National Register for Historic Places. The project also encroaches upon a flood plain described by the Federal Emergency Management Administration. Due to the rural nature of the area there are no risks associated with the encroachment. The roadway would be designed in such a way as to minimize floodplain impacts and preserve natural and beneficial floodplain values.

Jurisdictional wetlands and other waters of the United States would be impacted by this project. There are two areas of concern approximately located between KP 95.0 and KP 96.3. These areas are protected under Section 404 of the Clean Water Act and the California Department of Fish and Game 1601 Streambed Alteration Permit. The impact to these wetlands fall under the minor impact category, less than 0.029

hectares (0.071 acres), and would be mitigated via wetland creation or purchase of wetland areas.

The Findings of No Significant (FONSI) Negative Declaration was approved on May 12, 2005. (See Attachment A)

F. AIR QUALITY CONFORMITY

The project would not interfere with the implementation of TCXs contained in the applicable State Implementation Plan (SIP), regional plans and programs. The proposed project would improve LOS, resulting in an improvement of air quality.

G. TITLE VI CONSIDERATIONS

There are no specific Title VI considerations for this project.

7. OTHER CONSIDERATIONS AS APPROPRIATE

A. PUBLIC HEARING PROCESS

A Public Hearing was held on May 7, 2003 at the Lost Hills Elementary School in conjunction with the two Kern County segments. Few comments for the San Luis Obispo portion of the document were received.

B. ROUTE MATTERS

An update to the route adoption would not be required. Freeway agreements and relinquishments would not be required for this project.

C. PERMITS

The following permits would be required for this project: A 1602 Streambed Alteration Agreement from the California Department of Fish and Game, U.S. Army Corps of Engineers 404 permit, a 401 certification from the Regional Water Quality Control Board, and a Notice of Intent filed with the State Water Resources Control Board.

D. COOPERATIVE AGREEMENTS

No cooperative agreement(s) are required for this project.

E. TRAFFIC MANAGEMENT PLAN

A Traffic Management Plan is necessary for this project. The staging plans and traffic handling plans should be developed to allow one lane in each direction open to traffic as much as possible. The new lanes should be completed and opened to traffic prior to construction on existing lanes. Safe haul truck ingress/egress between the construction site and highway should also be implemented into the plans.

A Public Awareness Campaign shall be incorporated into the project in order to make the traveling public aware of any closures or delays. COZEEP should also be used to assist in the maintaining of safe traffic flow within the construction zone.

F. STAGE CONSTRUCTION

This project would be constructed in four stages with two temporary detours to shift traffic during construction. The first stage would be done where the horizontal and vertical curve corrections will be the most significant. This location is at the crest, or middle of the project, where large cuts and excavations would provide material for the fill sections.

The second stage would construct the new lanes at the beginning and end of the project up to the middle section. The third stage would construct temporary detours to shift traffic onto the new lanes. The fourth stage would overlay and correct the crown of the existing lanes and match the design profile at the middle section.

G. ACCOMMODATION OF OVERSIZE LOADS

State Route 46 is a SHELL route (extra legal permit loads). This project would not affect oversize loads.

H. GRAFFITI CONTROL

This project is not located in a graffiti prone area. Provisions will not be made.

I. DESIGN EXCEPTIONS

The preferred alternative, Alt 3, does not require design exceptions.

8. **PROGRAMMING**

This Project Report is for a closure project between the SR 46 Corridor Improvements (Wye) project (EA 05-330800) and the Rte 46 Expressway Conversion Projects (EA 06-442500 & 06-353410). More than \$100 million in future funds will be needed to fund those projects through construction. The schedule shown in this Project Report assumes funding for PS&E, R/W and R/W support will be programmed in the 2008 STIP Cycle. If the project is not able to successfully compete for funding in the 2008 STIP cycle, the schedule for the project will have to be further delayed. A Supplemental Project Report will be prepared to update the estimate, scope, and schedule of this project prior to actual programming of any future phases.

COST BREAKDOWN: (Capital Cost Estimate provided by Design and R/W Functions. Support Cost Estimate from XPM.)

Project Cost			Fiscal	Years	· ·		Total
Component	Prior	2003/04	2004/05	2005/06	2006/07	Future	
R/W Capital		-				\$ 1,700	\$ 1,700
Construction Capital				-		\$50,400	\$50,400
PA&ED	\$1,370						\$ 1,370
PS&E						\$ 7,560	\$ 7,560
R/W Support						\$ 1,220	\$ 1,220
Construction Support						\$ 2,500	\$ 2,500
Total	\$1,370					\$63,380	\$64,750

Capital and Support Cost Summary

Note: (1)All costs X\$1,000. Construction Capital is escalated at 3.4% per year and Support costs escalated 2.7% per year. Right of Way Capital costs escalated at 3% per year for Acquisition and 5% for utilities. (2) Support Categories are the same as those identified by SB 45.

iroject Schedule.		
Month/Year		
3/2005		
7/2008		
7/2011		
9/2011		
3/2012		
7/2013		

Project Schedule:

9. **REVIEWS**

Bob Chapman, HQ Geometrician reviewed this project at a meeting on 9/25/01.

10. PROJECT PERSONNEL

Project Manager:	Tom Houston	(805) 549-3016
Design Manager:	Foad Al-Hamdani	(559) 243-3546
Project Engineer:	Albert Aji	(559) 243-3547
Deputy District Director-Planning: District 5	Rich Krumholz	(805) 549-3161
Environmental Branch:	Judith Lopez	(559) 243-8297
Right Of Way:	John Maddux	(805) 549-3352

ATTACHMENTSATTACHMENT AATTACHMENT BATTACHMENT CATTACHMENT CATTACHMENT DATTACHMENT FATTACHMENT FATTACHMENT GATTACHMENT H

11.

Environmental Document Location Map Typical Cross Section Cost Estimate R/W Data Sheet TMP Data Sheet TASAS Table B Storm Water Data Report



U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION CALIFORNIA DIVISION 650 Capitol Mall, Suite 4-100 Sacramento, CA. 95814 May 12, 2005

> IN REPLY REFER TO HDA-CA File #: 05-SLO-46 PM 55.1/60.9 06-KER-46 PM 0.0/33.5 Document #: P52462

> > 357

Mr. J. Mike Leonardo, District Director California Department of Transportation District 6 P. O. Box 12616 Fresno, CA 93778-2616

Attention: Mr. Mike Donahue

Dear Mr. Leonardo:

SUBJECT: State Route 46 Four-Lane Widening Project in San Luis Obispo and Kern Counties, Finding of No Significant Impact

The Federal Highway Administration has completed its review of the Environmental Assessment, dated April 2005, for the proposed State Route 46 Four-Lane Widening Project in San Luis Obispo and Kern Counties, California. It is determined that the Finding of No Significant Impact (FONSI) is applicable for this project. Enclosed, for your use and distribution, is a signed FONSI.

If needed, please contact Dominic Hoang at (916) 498-5002, or Joseph Vaughn at (916) 498-5346.

Sincerely,

/s/ Dominic Hoang

For Gene K. Fong Division Administrator

Enclosure

cc: w/Enclosure (by E-mail) Jay Norvell, Caltrans HQ Kelly Dunlap, Caltrans HQ Carrie Bowen, Caltrans D-6 Paul Gennaro, Caltrans D-6 Mike Donahue, Caltrans D-6 Maiser Khaled, FHWA Mahfoud Licha, FHWA Joseph Vaughn, FHWA Dominic Hoang, FHWA

DHoang/kmo

FEDERAL HIGHWAY ADMINISTRATION FINDING OF NO SIGNIFICANT IMPACT For State Route 46 Four-Lane Widening Project (From Sate Routes 46/41 Junction to Interstate 5/State Route 46 Interchange) San Luis Obispo and Kern Counties, California

The Federal Highway Administration (FHWA) has determined that this project will not have any significant impact on the human environment. This finding of no significant impact is based on the attached Environmental Assessment, which has been independently evaluated by the FHWA and determined to adequately and accurately discuss the environmental issues and impacts of the proposed project. It provides sufficient evidence and analysis for determining that an environmental impact statement is not required. The FHWA takes full responsibility for the accuracy, scope, and content of the environmental assessment.

5/12/2005 DATE

0 ' For

Gene K. Fong **Division Administrator** Federal Highway Administration

State of California Department of Transportation

SCH Number: 2003041036 05-SLO-46 KP 88.7/97.9 (PM 55.1/60.9) 06-KERN-46 KP 0.0/11.75 (PM 0.0/7.3) 06-KERN-46 KP 11.75/53.9 (PM 7.3/33.5)

Negative Declaration

Pursuant to: Division 13, Public Resources Code

Project Description

The California Department of Transportation (Caltrans) proposes to widen a 63.2-kilometer (39.3-mile) portion of State Route 46 located in San Luis Obispo and Kern counties. The project would widen the existing two-lane conventional highway to a four-lane expressway with an 18.6-meter-wide (61-foot-wide) median. A four-lane conventional highway with a 5.4-meter-wide (18-foot-wide median) is proposed through the community of Lost Hills and ending just east of the West Side Canal in Kern County.

Determination

Caltrans has prepared an Initial Study, and determines from this study that the proposed project would not have a significant effect on the environment for the following reasons:

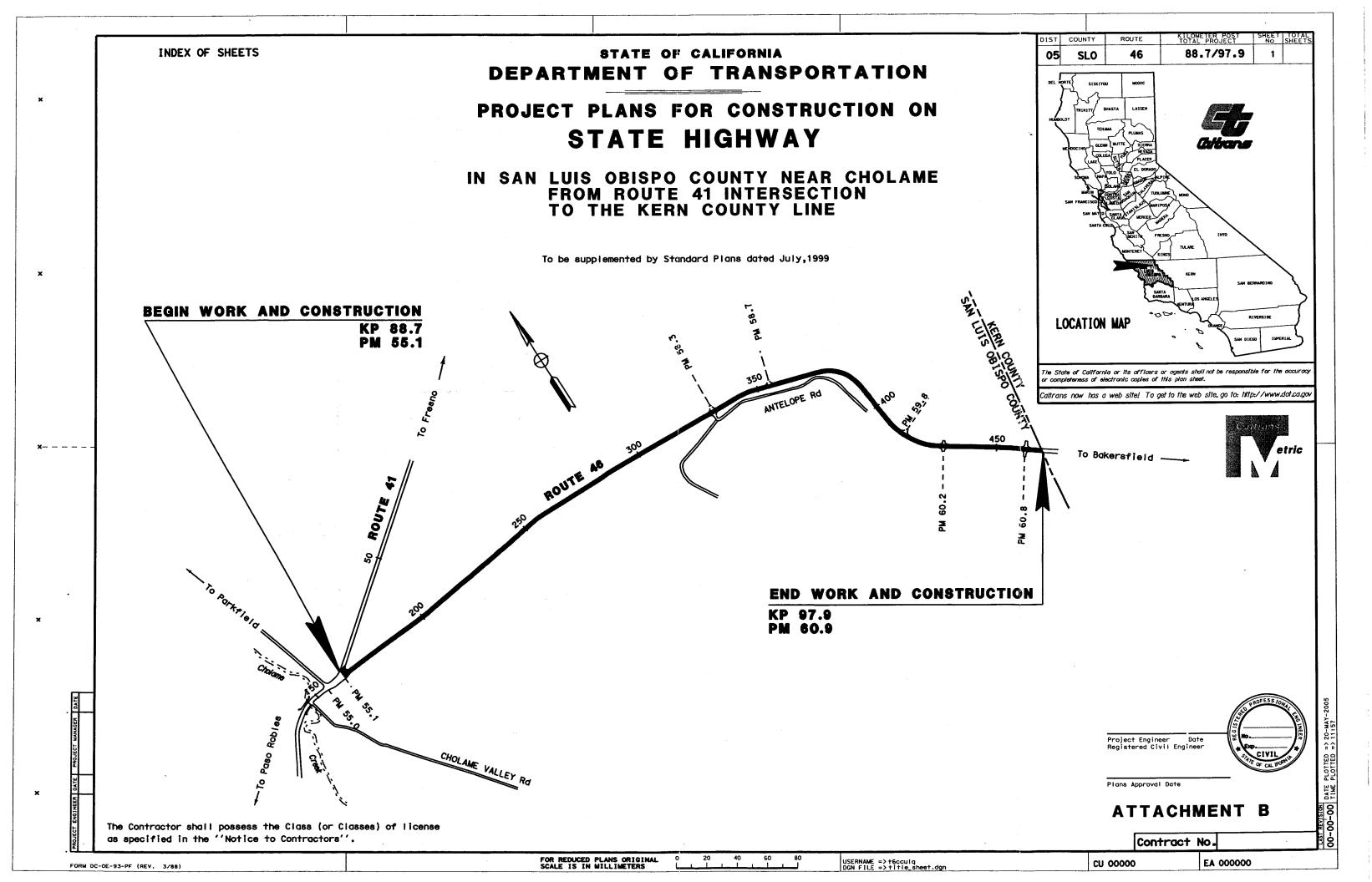
- The project would not increase floodplain or seismic hazards. Impacts to cultural resources would be mitigated under the provisions of the Federal Highway Administration, State Historic Preservation Office, and California Department of Transportation Memorandum of Agreement. There would be no significant effects on recreational facilities or to any park.
- There would be no change in the planned land use, or in the character and composition of local traffic.
- Impacts to threatened or endangered animal species, or riparian habitat would be mitigated by implementation of the measures specified in the Biological Opinions rendered by the U.S. Fish and Wildlife Service and the California Department of Fish and Game. Impacts to wetlands would be mitigated by measures specified by the U.S. Army Corps of Engineers. Impacts to "other waters of the U.S." would by mitigated under Nationwide Permit #14 issued by the Army Corps of Engineers.
- Air and water quality would not be affected, and noise levels would not increase near sensitive receptors. There would be no effects upon hazardous waste sites. Impacts to farmland would be considered less than significant.

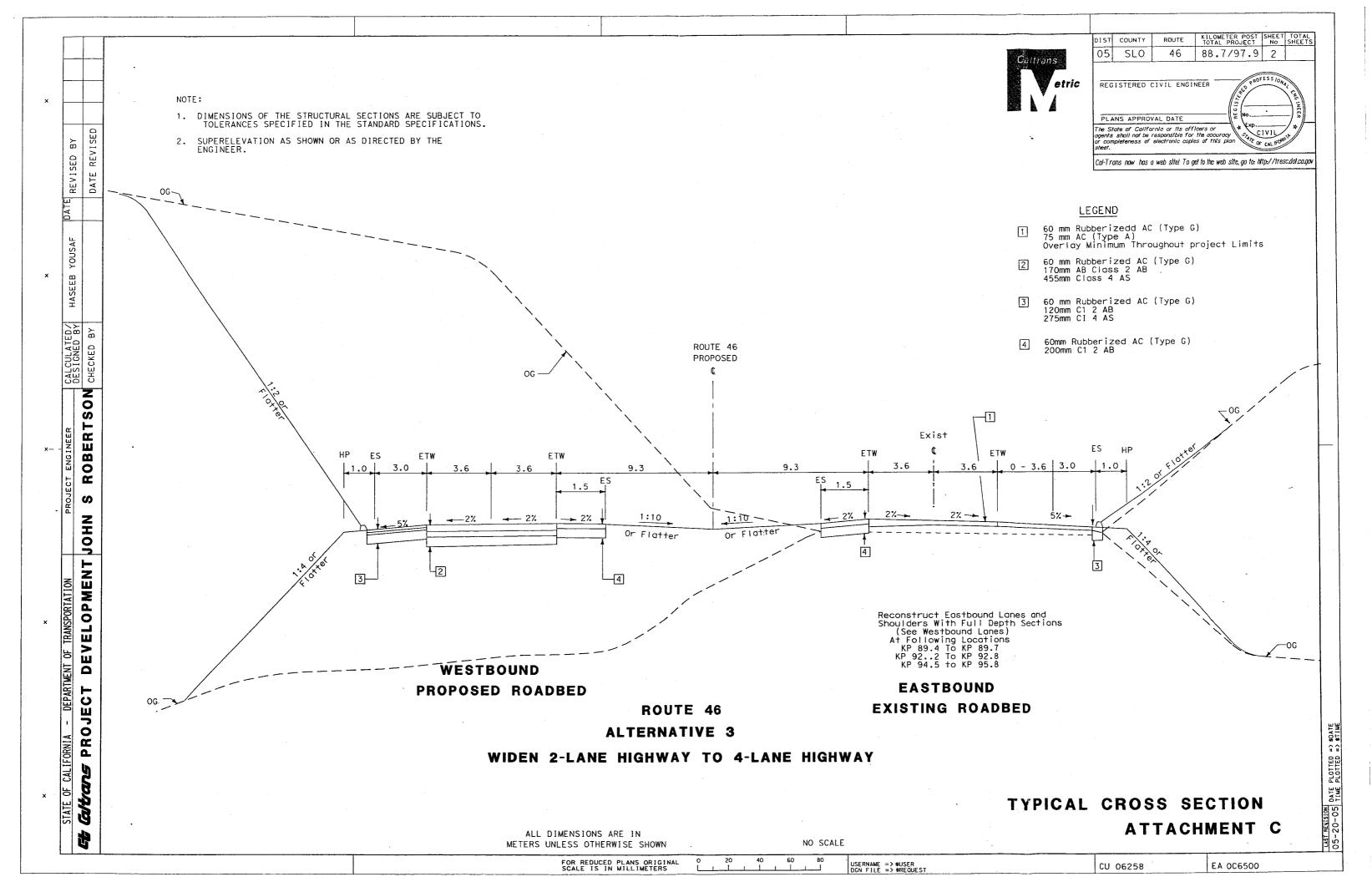
Mike Donahue Branch Chief Southern Sierra Environmental Analysis Branch California Department of Transportation

5/12/0

Date

vii





PRELIMINARY PROJECT COST ESTIMATE

С	altr	ans
		etric
	k	`

Dist-Co-Rte 05-SLO-46 KP (PM) 88.7/97.9 (55.1/60.9) EA 05-0C6500 Program Code H E13(20.10.025.700&20.10.075.600)

Project Description:

Limits: On Route 46 in San Luis Obispo County, from 41/46 "Wye" separation to SLO/Kern County Line.

Proposed Improvement (Scope):

posedThe project proposes to widen Route 46 in San Luis Obispo County from 2-lane to 4-lane and rehabilitateope):of the existing two-lane roadway. A design speed of 110km/h will be used throughout the project.

Alternative: Alternative 3

SUMMARY OF PROJECT COST ESTIMATE

TOTAL ROADWAY ITEMS	\$ 46,885,463
TOTAL STRUCTURE ITEMS	\$ 0
SUBTOTAL CONSTRUCTION COSTS	\$ 46,885,463
TOTAL RIGHT OF WAY ITEMS	\$ 1,677,303
TOTAL PROJECT CAPITAL OUTLAY COSTS	\$ 48,562,766

Reviewed by	Albert Aji	Albert Off	June 7,2005
Project Enginner		(Signature)	(Date)
Approved by	Tom Houston	allence to the	4.7.05
Project Manager		(Signature)	(Date)

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PRELIMINARY PROJECT COST ESTIMATE

Dist-Co-Rte 05-SLO-46

KP (PM) 88.7/97.9 (55.1/60.9)

EA 05-0C6500

I. ROADWAY ITEMS

Section 1 Earthwork Roadway Excavation Imported Borrow Clearing & Grubbing Develop Water Supply	Quantity 1,200,000	Unit m ³ LS LS	Unit Price Unit Cost Section Cost \$ 10 \$ 12,000,000 \$
			Total Earthwork \$ 12,400,000
Section 2 Struc, Section Ruberized (AC)	32,000	tonne	\$ <u>87</u> \$ <u>2,784,000</u> Bees# 390126
Asphalt Concrete(AC) Cl 2 Aggregate Base ATPB/ Edge Drains Cl 4 Agg. Subbase Place AC Dike Type "E"	<u>43,000</u> <u>18,000</u> <u>5,800</u> <u>50,000</u> <u>1,850</u>		\$ 71 \$ 3,053,000 Bees# 390102 \$ 45 \$ 810,000 Bees# 260201 \$ 100 \$ 580,000 Bees# 250401 \$ 32 \$ 1,600,000 Bees# 250401 \$ 15 \$ 27,750 Bees# 394048
			Total Structural Items \$ 8,854,750
Section 3 Drainage Modify Drainage Systems	1	LS	\$ <u>2,600,000</u> \$ <u>2,600,000</u>
			Total Drainage \$

Page 2 of 6

PRELIMINARY PROJECT COST ESTIMATE

Dist-Co-Rte 05-SLO-46

KP (PM) 88.7/97.9 (55.1/60.9)

EA 05-0C6500

-0C6500

Section 4 Specialty Items	Quantity	Unit
RE Office Space	1	LS
Erosion Control	1	LS
SWPPP Report	1	LS
Public Awareness Campaign	1	LS
Water Polution Control	1	LS
Landscape Mitigation	1	LS
Environmental Mitigation	1	LS
Treatment BMP	1	LS
Supplemental Fund	1	LS
COZEEP	1	LS

	Unit Price		Unit Cost
\$_	175,000	\$	175,000
\$	2,205,000	\$	2,205,000
\$	10,000	\$	10,000
\$	75,000	\$	75,000
\$	714,000	\$	714,000
\$_	200,000	\$	200,000
\$	400,000	\$	400,000
\$	2,320,000	\$	2,320,000
\$	731,750	\$	731,750
\$_	120,000	\$_	120,000
		-	

Total Specialty Items

\$_____6,950,750

Section Cost

Section 5 Traffic Items			
Closed Circuit Camera	1	LS	\$ 100,000 \$ 100,000
Surveillance Stations	1	LS	\$ 110,000 \$ 110,000
Traffic Management Plan	1	LS	\$ 100,000 \$ 100,000
Relocale Flash Beacon	1	LS	\$ 20,000 \$ 20,000
Roadside Signs	1	LS	\$ 30,000 \$ 30,000
Const. Area Signs	1	LS	\$ 25,000 \$ 25,000
Traffic Handling / Maintain			
Traffic	1	LS	\$ 112,000 \$ 112,000 \$
Traffic Control Systems	1	LS	\$ 50,000 \$ 50,000
Pavement Delination	1	LS	\$ 200,000 \$ 200,000

•

Total Traffic Items

747,000

SUBTOTAL SECTIONS 1 thru 5 \$ 31,552,500

			Page 3 of 6
PRELIMINARY PI	ROJECT COST ESTIMATE		
	Dist-Co-Rte	05-SLO-46	
	KP (PM)	88.7/97.9 (55.1/60	.9)
	EA	05-0C6500	······································
Section 6 Minor Items		Unit Cost	Section Cost

Subtotal Sections 1 thru 5	\$_31,552,500	x 0.1 \$ 3,155,250 (5 to 10%)
Section 7 Roadway Mobilization		Total Minor Items\$3,155,250
Subtotal Sections 1-5 Minor Items Sum	\$ <u>31,552,500</u> \$ <u>3,155,250</u> \$ <u>34,707,750</u>	x 0.1 \$_3,470,775 x (5-10%)
Section 8 Roadway Additions		Total Roadway Mobilization \$ 3,470,775
I. Supplemental Subtotal Sections 1-5 Minor Items 50/50 BMP Maint. Cost Sharing Storm Water Sampling and Analysis Sum	\$ <u>31,552,500</u> \$ <u>3,155,250</u> \$ <u>270,000</u> \$ <u>30,000</u> \$ <u>35,007,750</u>	x 0.1 \$ <u>3,500,775</u> x (5-10%)
II. Contingencies Subtotal Sections 1-5 Minor Items Sum	\$ <u>31,552,500</u> \$ <u>3,155,250</u> \$ <u>34,707,750</u>	x 0.15 \$ 5,206,163 (*%) Total Roadway Additions \$ 8,706,938
		TOTAL ROADWAY ITEMS\$6,700,938TOTAL ROADWAY ITEMS\$46,885,463(Total of Sections 1-8)
Estimate Prepared by :		Phone Date
*Use 15% at the DPR stage or a higher or lower rat	e if justified	

Page 4 of 6

PRELIMINARY PROJECT COST ESTIMATE

		Dist-Co-Rte KP (PM) EA	88.7/97.9 (55.1	/60.9)	
II. STRUCTURE ITEMS					
		STRUCTURE			
	<u>No. 1</u>	<u>No. 2</u>	<u>No. 3</u>		
Bridge Name	<u> </u>				
Structure Type					
Width m (out to out)					
Span Lengths m.					
Total Area Sq. m.					
Footing Type (pile/spread)	<u> </u>		·		
Cost Per Sq. m. (incl. 10% mobilization and 25% contingency)					
Total Cost for Structure					
Other			·····		
		SUBTOTAL STRUCT	TURES ITEMS	\$	0
Railroad Related Costs				\$	
		TOTAL STRUCT	URES ITEMS	\$	0

Estimate Prepared by :

Page 5 of 6

PRELIMINARY PROJECT COST ESTIMATE

Dist-Co-Rte	05-SLO-46
KP (PM)	88.7/97.9 (55.1/60.9)
EA	05-0C6500

III. RIGHT OF WAY

	Current Values (Future Use)	Escalation Rates	Escalated Values*
Acquisition, including excess lands and			
damages to remainder(s)	\$ 1,218,138	3% _ \$	1,371,024
Utility Relocation (State share)	\$ 195,000	5% _ \$	237,024
Clearance/Demolition	\$ 		0
RAP	\$	%_\$	0
Title and Escrow Fees	\$ 61,532	3% _ \$	69,255
CONSTRUCTION CONTRACT WORK	\$ 	\$	
TOTAL RIGHT OF WAY (CURRENT VALUE)**	\$ 1,474,670	TOT. R/W \$	1,677,303

* Escalated to assumed year of advertising of _ 2007.
** Current total value for use on Sheet 1 of 6

Estimate Prepared by :

Page 6 of 6



State of California

Business, Transportation and Housing Agency

Memorandum

To: M. AKHAVAN 06

> Attn: BRIAN DUNCAN 05- DESIGN BR II

Date: 4	/6/00
---------	-------

File: EA 0C650K ALT 3REV

DESCRIPTION:

FOUR LANE WIDENING

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

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 3/13/00

The following assumptions and limiting conditions were identified:

Additional information includes the following:

THIS IS A REVISED ESTIMATE FOR ALTERNATE 3. R/W LEADTIME HAS INCREASED TO 17 MONTHS. THERE IS CONSTRUCTION CONTRACT WORK TO RECREATE 4 DRIVEWAYS; IMPROVEMENTS ARE 4 GATES.

Right of Way Lead Time will require a minimum of 17 months after we receive certified Appraisal Maps, the necessary environmental clearance has been obtained, and freeway agreements have been approved.

1072

JOHN W. MADDUX, Chief San Luis Obispo Field Office (805) 549-3352 Calnet 8-629-3352

Page 1 of 3

REQUEST DATE

3REV

REVISED DATE

.

4/6/00 CO/RT

CO/RTE/KP-KP[route 1_route 2] SLO/46/90.0-98.0 & /0/0.0-0.0

EA

RIGHT OF WAY COST ESTIMATE	CURRENT YR 2000	CONTINGENCY RATE	RIGHT OF WAY ESCALATION RATE	ESCALATED YEAR 2004
ACQUISITION	\$1,218,138	25.00%	3.00%	\$1,371,024
STATE SHARE OF UTILITIES	\$195,000	25.00%	5.00%	\$237,024
RAP	\$0	25.00%	3.00%	\$0
CLEARANCE/DEMO	\$0	25.00%	3.00%	\$0
TITLE AND ESCROW	\$61,532	25.00%	3.00%	\$69,255
PROPERTY MANAGEMENT				
SUPPORT HOURS				
TOTAL CURRENT VALUE *				\$1,677,303

ESTIMATED CONSTRUCTION CONTRACT WORK

\$20,000

PARCEL DATA				
# OF PCL TYPE X	o	# OF DUAL APPR X	0	
# OF PCL TYPE A	·2	# OF DUAL APPR A	0	
# OF PCL TYPE B	12	# OF DUAL APPR B	0	
# OF PCL TYPE C	0	# OF DUAL APPR C	· 0	
# OF PCL TYPE D	0	# OF DUAL APPR D	0	
TOTALS	14	TOTALS	0	
# OF EX	CESS P	ARCELS 0		

RR INVOLVEMENT				
ARE RAILROAD FACILITIES OR RIGHTS OF WAY	NO			
CONST/MAINT AGREEMENT	NO			
SERVICE CONTRACT	NO			
RIGHT OF ENTRY	NO			
CLAUSES	NO			

UTILITIES		
U4-1	0	
U4-2	1	
U4-3	0	
U4-4	0	
U5-7	1	
U5-8	0	
U5-9	1	

R/W LEAD TIME/MONTHS

17

MISC R/W WORK			
# OF RAP DISPLACEMENT	0		
# OF CLEARANCE/DEMOS	0		
# OF CONST PERMITS	4		
# OF CONDEMNATIONS	0		

* IF R/W COST ESTIMATE FIELDS ARE BLANK, TOTAL CURRENT VALUE = \$0

Page 2 of 3

UTILITY F	ACILITIES OR RIGHTS OF WAY AFFECTE	D YE	55	RAILROAD	EADTIME REQUIRED	0
	<u>P</u>	ARCEL AREA	UNIT:	ACRE		
	TOTAL R/W TAKE	54	TOTAL	RW FEE	\$967,420	•
	TOTAL EXCESS AREA	0	TOTAL	EXCESS COST	\$0	
RITICAL C	BENERAL DESCRIPTION OF R/W AND EXO OR SENSITIVE PARCELS, ETC.): d ag; smaller pcls (40 ac or less) highest & be	st use rural homesi	ites: THIS IS	A REVISION OF AL	T. 3 SINCE ENTIRE	•
PRE	VIOUS ONLY A PORTION OF ENTIRE ALTI evements are gates.	ERNATIVE. Cons	truction cont	act work to recreate	4 driveways;	•
S THERE	A SIGNIFICANT EFFECT ON ASSESSED V	ALUATION?	N	io	· ·	•
VERE AN	PREVIOUSLY UNIDENTIFIED SITES WIT	H HAZARDOUS V	VASTE OR I	MATERIAL FOUND?	No	•
RE RAP [•				
OF SING	LE FAMILY 0 # OF MULTI FAMI		# OF BU	SINESS/NONPROFI	T 0 #OF	FFARMS
SUFFICIEN	NT REPLACEMENT HOUSING WILL BE AV		JT LAST RE	SORT HOUSING		
ARE MATE	RIAL BORROW OR DISPOSAL SITES REC	DUIRED?:	No		•	
ARE THEF	RE POTENTIAL RELINQUISHMENTS OR A	BANDONMENTS?	·	No		
ARE THEF	RE ANY EXISTING OR POTENTIAL AIRSPA	CE SITES?		No		
ARE ENVI	RONMENTAL MITIGATION PARCELS REQ	UIRED?		Yes		
	OR EVALUATION PROVIDED BY			•		

ESTIMATOR REQUIRED	PAULA L. WIDRIN	4/6/00
RAILROAD LIAISON AGENT	SALLY A. HOPKINS	3/22/00
UTILITY RELOCATION COORDINATOR	PAMELA G. DEAN	3/23/00

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.

hoto

JOHN W. MADDUX Field Office Chief, Right of Way

DATE ENTERED PMCS 4/6/00 BY JAMES H. AMBERG

Memorandum

TO:

Foad Al-Hamdani, P.E. 06 Branch Y

Date: June 27, 2002 File: EA 0C6500 SLO-46-PM 55.1/60.9

ATTACHMENT F

From : DEPARTMENT OF TRANSPORTATION Traffic Management, 05

Subject : Transportation Management Plan (TMP) for EA 0C6500

This memo is in response to your request of May 29 for a TMP for EA 0C6500, SLO-46 PM 55.1/60.9 (KP 88.7/97.9) – major widening.

Please find attached the TMP data sheet. It is my understanding that two lanes will be constructed on new alignment north of the existing highway, with the existing highway receiving an overlay after completion of the new lanes. There will be an estimated 1,340,000 m³ of excavation.

Staging plans and traffic handling plans should be developed that will allow one lane in each direction open to traffic as much as possible. For times when it is required to implement traffic control, there are daytime hours available. The new lanes should be completed and open to traffic prior to construction on existing lanes.

Additionally, please incorporate into the plans safe haul truck ingress/egress between the construction site and the highway. A flagger may be needed for this operation. If soil is to be transported from one area of the construction site to another area, is it possible to keep trucks off the existing alignment? Please consider this when developing the contract documents.

If you have any questions, I can be reached at (805) 594-6196 or Calnet 629-6196.

Attachment

c: Jacques Van Zeventer Mike Galizio

DISTRICT 5

TRAFFIC MANAGEMENT PLAN CHECK LIST

Note: This TMP is subject to change as new information becomes available.

District / EA: 05-0C6500

Project Engineer: Foad Al-Hamdani Date Prepared: 6/27/02 Co.-Rte-KP: SLO-46-KP 88.7/97.9 (PM 55.1/60.9)

Description: Major widening w/ 2 lanes on new alignment

Working Days: 570

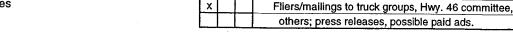
<u>Check each box and reference your attachments to the item(s) number(s) shown on the list.</u>



1.0 Public Information

1.1 Public Awareness Campaign

1.2 Other Strategies



х

х

2.0 Motorist Information Strategies

2.1 Changeable Message Signs

2.2 Construction Area Signs

- 2.3 Highway Advisory Radio (fixed and mobile)
- 2.4 Planned Lane Closure Web Site
- 2.5 Caltrans Highway Information Network (CHIN)

3.0 Incident Management

- 3.1 COZEEP
- 3.2 Freeway Service Patrol

I. 0	Traffic	Manag	jement	Strat	legies
-------------	---------	-------	--------	-------	--------

- 4.1 Lane/Ramp Closures Charts
- 4.2 Total Facility Closure
- 4.3 Coordination with adjacent construction
- 4.4 Contingency Plan
 - 4.4.1 Material/Equipment Standby
 - 4.4.2 Emergency Detour Plan
 - 4.4.3 Emergency Notification Plan
- 4.5 SSP 12-220 and Others
- 4.6 Other Strategies:

Monitor queue length during daytime lane closures Max. queue length of 1.5 miles. Traffic control (flagger) may be needed for haul trucks accessing the highway. Most traffic impacts appear to be due to haul truck access to hwy.

w/1.34M m³ soil moved. Plan earthwork behind k-rail, clear of traffic. Include in 066070 (Maintain Traffic) -

- may fund portion of CMS's or COZEEP in
- Maintain Traffic, as appropriate.

Construction staging/traffic handling plans needed.

5.0 Anticipate Delays

5.1 Lane Closure Review Committee (for anticipated delays over 30 minutes)

5.2 Planned freeway closures

5.3 Minimal delay anticipated -

no further action required if above strategies implemented.

x Construction to provide information to TMC x Construction to provide information to TMC x Construction to provide information to TMC

Min. 2 CMS's for lane closures and haul truck access

Include in 066063 (TMP) - \$75,000

 x
 Fund \$1100/night, \$550/day w/ lane closures

 x
 X

х		daytime lane closures - 8 hr window;see below
	х	
	х	
х		for early pick-up if queue more than 1.5 miles
	х	Contruction/Contractor to provide - as needed
X		Contruction/Contractor to provide - as needed
х		Contruction/Contractor to provide - as needed
Х		
X		
X		
X		
X		Include funding where appropriate.
X		Explore alt. earth moving strategies where appropriate.
		examples: conveyor belt, culvert or bailey bridge
х		\$200/working day min. (or \$112,000 for 560 days)
		Include additional funds as needed for additional
		CMS's or COZEEP
X		Keep 2 lanes/dir. open as much as possible.

х	
_	
х	

x yes no If no, explain additional measures on attached sheet.

Kim Romano

District TMP Coordinator

6/27/02 Date:

And the second se		х. Х.
1 AXR253-A 05-20-05	TASAS TABLE B DISTRICT 05 SELECTIVE ACCIDENT RATE CALCULATION	DAGE 1
	ROUTE SEQUENCE	PAGE 1
LOCATION DESCRIPTION	RA *-NUMBER OF ACCIDENTS/SIGNIFICANCE* PER *ADT * TOTAL *-ACCIDENT GRP MULTI KLD MAIN MV+ OR ACTU	
0046 SLO 55.100 THRU SLO 060.099	(RUS) TOT FAT INJ F+I VEH WET DARK INJ X-ST MVM FAT F+J H 18 1 9 10 11 3 7 3 7.0 38.12 .026 .26	TOT FAT F+I TOT
05-0001 5.000M 01-04-01 04-03-31 36	10 (R) 22	··· ·· ··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·

APPENDIX E

Caltrans etric	Dist-County-Route 05-SLO-46 Kilometer Post (Post Mile) 88.7/97.9 (55.1/60.9) Project Type Widen SR-46 from 2 lanes to 4 lanes EA:
Regional Water Quality Control Board(s): Central	Coast Region, RWQCB, Region 3
Is the Project exempt from incorporating Treatment BM If yes, attach the Exemption Documentation Fo	
Are new Treatment BMPs incorporated into the Project	t? Yes 🛛 No 🗌
Estimated Construction Start Date: 05/2010	
Notification of Construction (NOC) Date to be Submitt	ted: <u>4/01/07</u>
Notification of ADL reuse (if yes, provide date)	Yes 🖵 Date No 🖵 N/A 🖾
Separate Dewatering Permit (if yes, permit no.)	Yes 🖵 Permit # No 🖵 N/A 🛛
This Report has been prepared under the direction of the attests to the technical information contained herein and and decisions are based. Professional Engineer or Lands	the data upon which recommendations, conclusions,
John Solopertson	12-3-03
John'S Roberton, Registered Project Engineer	Date
I have reviewed the storm water quality design issues conta attached hereto, and find the data to be complete, current, d	ined in the Storm Water Data Report and Attachments and accurate:
Non Puts	12-8-03
Tom Houston, Project Manager	. Date
Jonwood	· /2-12-03
Jon Wood, Designated Maintenange Representative	- 12/15/03
Dennis Reoves, Designated Landscape Architect Representation	tive Date
Design District/Regional Storm Water Coordinator or Design	nee Date

ATTACHMENT H

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