10-STA-99-PM R22.0/R23.1 10-STA- 219 - PM 0.0/0.3 Program Code 400.010 EA 10-0L330K May 2009

PROJECT STUDY REPORT

To

Request Project Concept Approval

On Route 99 Between 0.8 miles south of Kiernan Avenue/Route 219 And 0.4 miles north of Kiernan Avenue/Route 219

CHRISTINA HIBBARD, PROJECT MANAGER

APPROVED:

TONY TAVARES Interim District 10 Director

10-STA-99-PM R21.96/R23.12 10-STA- 219 - PM 0.0/0.3 Program Code 400 EA 10-0L330K May 2009

Project Vicinity Map



On Route 99

Between 0.8 miles south of Kiernan Avenue/Route 219
And 0.4 miles north of Kiernan Avenue/Route 219
In Stanislaus County

10-STA-99-PM R21.96/R23.12 and 219 PM 0.0/0.3 Program Code 400 EA 10-0L330K May 2009

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



MARTHA M DADALA, P.E.

REGISTERED CIVIL ENGINEER

5/5/2009

Table of Contents

1.	Introduction1
2.	Background2
3.	Purpose and Need Statement4
4.	Deficiencies6
5.	Corridor and System Coordination
6.	Alternatives
7.	Community Involvement
8.	Environmental Determination/Document
9.	Funding and Programming
10.	Schedule22
11.	FHWA Coordination
12.	District Contacts
13.	Project Reviews
14.	Attachments
	Attachment A – Vicinity Map
	Attachment B – Geometric Approval Drawings (Alternative 1)
	Attachment C – Geometric Approval Drawings (Alternative 2)
	Attachment D – Cost Estimates
	Attachment E – Right of Way Data Sheets (RWDS)
	Attachment F – Storm Water Data Report Cover Sheet (SWDR)
	Attachment G – TMP Checklist
	Attachment H – PEAR Document
	Attachment I – Draft Cooperative Agreement

1. INTRODUCTION

Stanislaus County, in cooperation with Caltrans District 10, proposes to reconstruct the SR-99/SR-219 (Kiernan Avenue) interchange in the community of Salida. This project will help to alleviate traffic congestion, improve operations, and increase the capacity of the interchange. The area is experiencing increased growth due which will yield higher traffic volumes on the existing facility in the near future. Two build alternatives and the no-build are proposed for further consideration. The two build alternatives range in cost from \$45.2 to \$72.2 million (in current dollars) for construction and right of way. The project is proposed for funding by the Stanislaus County Public Facilities Fees and STIP funding.

This Project Study Report (PSR) is prepared for the purpose of providing conceptual approval for and programming of the project. The County plans to initiate PA&ED phase in January 2009, design in 2010 and construction in January 2012. A Project Report will serve as approval of the "selected" alternative.

The appropriate Project Development Category for this project is Category 3, because it will require modification of existing access control, reconstruction of the existing interchange and local roads, and acquisition of new right of way, but will not require a route adoption.

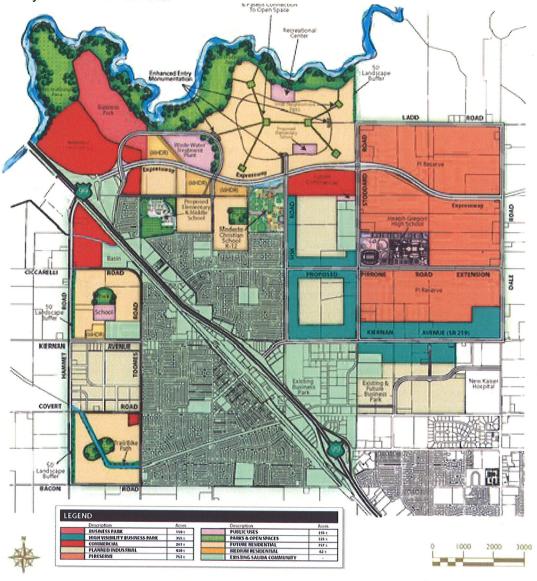
PROJECT INFORMATION:

Project Limits:	10-STA-99-PM R21.96/R23.12 and
	219 PM 0.0/0.3
Number of Alternatives:	2
Alternative Recommended for	Alternative 1 –
Programming:	Modified Narrow Diamond Interchange
Capital Construction Costs:	\$ 36.1 million
	(See the Cost estimate for specific work items included in this project.)
Capital Right of Way Costs:	\$ 9.1 million
Funding Source:	PA&ED Support – Local
	Construction Support – Local
	Capitol Construction - Local/STIP
Type of Facility	Local
(conventional, expressway, freeway):	Interchange
Number of Structures:	1
Anticipated Environmental	Initial Study/Negative Declaration (CEQA)
Determination/Document	Environmental Assessment/FONSI (NEPA)
Project Category	3

2. BACKGROUND

The SR-99/SR-219 (Kiernan Avenue) interchange is located in the north part of Stanislaus County and on the northern edge of the City of Modesto, providing access to commercial and residential properties in the Community of Salida. This area is undergoing rapid commercial and residential development and has resulted in generating considerable traffic to the interchange. During peak traffic periods, the SR-99/SR-219 (Kiernan Avenue) interchange operates at level of service E/F conditions. Stanislaus County has collected developer fees for improvements to the interchange. Caltrans recently implemented an interim project for minor improvements at the interchange to provide temporary traffic congestion relief.

The Stanislaus County Board of Supervisors adopted the "Salida Now" initiative in August 2007 which provides infrastructure funding for industrial and commercial development. With a population of about 14,000, Salida is the largest town in unincorporated Stanislaus County. Salida's location along SR-99 at the far northern end of the county puts it within long-distance commuting range of the Bay Area. The County is now underway with the adoption of the Salida Community Plan, which will define the growth parameters for the next 20 years of the Salida Area.



10-STA-99-PM R21.96/R23.12 10-STA-219-PM 0.0/0.3 EA 10-0L330K

Due to projected housing and commercial growth in the Salida area, the existing interchange will not be adequate to accommodate forecasted traffic. The proposed interchange improvements include reconstruction of the existing interchange to provide improved operations for turning movements to and from SR-99, as well as associated local road improvements at adjacent intersections. The Proposed Project consists of two components: 1) reconstruction of interchange at SR-99/SR-219 (Kiernan Avenue) and 2) construction of auxiliary lanes in both northbound and southbound directions of SR-99 from Kiernan Avenue to Pelandale Avenue including installation of ITS elements.

Attachment A provides the Project Vicinity Map.

3. PURPOSE AND NEED STATEMENT

3.1 Purpose

The purpose of the proposed project is to increase capacity to meet forecasted traffic demands at the SR-99/SR-219 (Kiernan Avenue) interchange.

The interchange ramps and local road intersections are proposed to be widened to provide improved operations for turning movements to and from SR-99. The proposed SR-99/SR-219 (Kiernan Avenue) interchange improvements also include the construction of SR-99 northbound and southbound auxiliary lanes between Kiernan Avenue and Pelandale Avenue interchanges, which would improve merge and diverge characteristics in this section. The existing SR-219 bridge structure will be replaced to provide 16.5 feet of minimum vertical clearance over the SR-99 traffic lanes.

3.3 Need

The need of the project is due to anticipated congestion and inadequacy of the existing interchange to accommodate future traffic needs.

Without improvement, the future levels of service at the existing ramp intersections would degrade to LOS F. Traffic at the ramp terminals would back up onto the SR-99 freeway exit ramps and cause significant congestion to SR-99 mainline operations.

The storage length available to accommodate forecasted westbound traffic is inadequate and would result in long queues and congestion in the through lanes on Kiernan Avenue.

3.3 Traffic Data

Year 2035 traffic forecasts are presented in the report titled "Traffic Forecast Results for: Hammett Road/SR-99 and Kiernan Avenue (SR 219)/SR-99 Project Study Reports", December 28, 2004, updated on April 12, 2007. These traffic forecasts were approved by Caltrans Traffic Forecasting Division in May 2007. The average daily bi-directional traffic volume for SR-99 in the year 2035 is forecasted to be 177,100 between Hammett Road and Kiernan Avenue, and 165,500 between Kiernan Avenue and Pelandale Avenue. The design year 2035 peak hour and Average Daily Traffic (ADT) volumes are provided in **Table 1**.

TABLE 1
DESIGN (YEAR 2035) SR-99 MAINLINE TRAFFIC VOLUMES

	Location	AM (vph)	PM (vph)	ADT
NB SR-99	Kiernan Ave. to Hammett Rd.	9,600	8,400	88,100
	Pelandale Ave. to Kiernan Ave.	9,600	7,900	84,100
SB SR-99	Hammett Rd. to Kiernan Ave.	7,300	9,900	89,000
	Kiernan Ave. to Pelandale Ave.	6,700	9,800	81,400

3.4 Accident History

Caltrans provided accident data for SR-99 through the study corridor and the interchange ramps as shown in **Table 2**. This data shows that a total of 152 accidents were reported on the mainline during the three-year period from August 1, 2004 to July 31, 2007. At the ramps, a total of 16 accidents were reported. The accident rates are expressed in number of accidents per Million Vehicle Miles (MVM) for main line and Million Vehicles (MV) for intersections and ramps.

TABLE 2 ACCIDENT HISTORY

	Num	ber of Acc	cidents	Accident Rate (accidents/MVM or MV)							
pm 1114			Fatal		Actual	Y	·	State Avera	ge		
Facility	Total	Fatal	+ Injury	Total	Fatality	Fatal + Injury	Total	Fatality	Fatal + Injury		
SR-99 (PM R021.96 to PM R023.119)	157	1	34	1.07	0.007	0.23	0.90	0.014	0.32		
NB Off-Ramp to Broadway/SR 219	4	0	. 1	0.69	0.00	0.17	0.90	0.006	0.35		
SB On-Ramp From Broadway/SR 219	4	0	1	0.71	0.00	0.18	0.45	0.003	0.17		
NB On-Ramp From Broadway/SR 219	2	0	0	0.29	0.00	0.00	0.45	0.003	0.17		
SB Off-Ramp To Broadway/SR 219	6	0	0	0.97	0.00	0.00	0.90	0.006	0.35		

Source: Caltrans District 10 TASAS data between 08/01/2004 and 07/31/2007.

4. <u>DEFICIENCIES</u>

4.1 Traffic and Level of Service

The interchange of SR-99 and SR-219 (Kiernan Avenue) is a highly traveled, narrow diamond interchange providing access to Salida, Riverbank, Oakdale, and Modesto. Traffic volumes at this interchange are anticipated to increase due to the trips generated by development in Salida, Modesto, Oakdale and Riverbank. Traffic congestion currently occurs during peak hours and will continue to escalate with future growth. The area is experiencing increased growth which will yield higher traffic volumes on the existing facility in the near future.

Peak hour volume projections were generated using a modified StanCOG 2030 traffic model and updated to 2035. The future land uses in the vicinity of the subject interchanges include the full River Ranch development and West Salida Specific Plan and portions of the Salida Community Plan. Roadway improvements include the widening of SR-219 (Kiernan Avenue) from two lanes to four lanes and Pelandale Avenue and the extension of Ladd Road.

Traffic Volumes & Lane Configuration

In the 2035 No Build Condition, the existing interchange configurations would remain, except for the planned SHOPP improvements at the Kiernan Avenue interchange and the widening of SR-219. Kiernan Avenue is planned as a four-lane road with signalized intersections at the SR-99 ramps, Kiernan Avenue/Sisk Road and Broadway/Salida Boulevard.

The trip generation, trip distribution, trip assignment and traffic volume forecasts for the 2030 No Build Condition is already approved by Caltrans and Stanislaus County in May 2007. The year 2030 volumes were updated for the year 2035 using approved growth factors. The memo "2035 Traffic Forecast Results for Hammett Road/S.R. 99 and Kiernan Avenue/S.R. 99 Project Study Reports" dated April 12, 2007 is provided in Attachment B.

Evaluation of 2035 No Build Traffic Condition

Even though SR-219 (Kiernan Avenue) is planned to be widened to four lanes under a separate project, and some minor improvements are to be made at the SR-99/SR-219 (Kiernan Avenue) interchange through SHOPP improvements, all four analyzed intersections are forecasted to operate at LOS "F" in the AM and PM peak hours in the *No Build Condition*.

Table 3 presents the summary of the 2035 No Build Condition intersection level of service for weekday AM and PM peak hours.

TABLE 3
SR-99/SR-219 (KIERNAN AVENUE) INTERCHANGE
INTERSECTION LEVEL OF SERVICE SUMMARY
NO BUILD CONDITION (Year 2035)

Peak Hour	LOS	Delay (sec)	Max v/c
A.M.	F	348.4	2.12
P.M.		125.7	1.27
A.M.	F	678.7	2.90
P.M.		362.5	2.15
A.M.	F	828.9	3.12
P.M.		621.7	2.64
A.M.	7	815.7	3.10
P.M.		1061.1	4.00
	A.M. P.M. A.M. P.M. A.M. P.M.	A.M. F P.M. F A.M. F P.M. F A.M. F A.M. F A.M. F A.M. F	A.M. F 348.4 P.M. F 125.7 A.M. F 678.7 P.M. F 362.5 A.M. F 828.9 P.M. F 621.7 A.M. F 815.7

Table 4 shows the 2035 No Build Condition level of service summary for the ramp junctions at the interchange at SR-219 (Kiernan Avenue).

TABLE 4
SR-99/SR-219 (KIERNAN AVENUE) INTERCHANGE
RAMP MERGE & DIVERGE LEVEL OF SERVICE SUMMARY
NO BUILD CONDITION (Year 2035)

Location	Peak Hour	LOS
6. NB SR-99 diverge at Kiernan Ave off-ramp	A.M.	F
	P.M.	E.
7. NB SR-99 merge at Kiernan Ave on-ramp	A.M.	F
	P.M.	
8. SB SR-99 diverge at Kiernan Ave off-ramp	A.M.	2
	P.M.	F
9. SB SR-99 merge at Kiernan Ave on-ramp	A.M.	С
	P.M.	200 Control of the co
Bold indicates unacceptable level of service and delay		

4.2 Existing Non-Standard Design Elements

The current interchange was constructed in 1969, and has several design elements that do not meet current Caltrans highway design standards, as follows:

- Intersection Spacing on Kiernan Avenue
 The distance between each ramp intersection and the adjacent local street intersection is less than the minimum standard of 400 ft.
- Interchange Spacing
 The existing interchange spacing between Pelandale Avenue and Kiernan Avenue interchanges is less than the standard of one mile.

Weaving Sections

The LOS at the weaving section between Pelandale Avenue and Kiernan Avenue interchanges is less than the standard of LOS D.

• Vertical Clearance

The vertical clearance of the Kiernan Avenue Overcrossing of SR-99 is less than the standard of 16.5 feet. This nonstandard feature will be eliminated as the bridge will be reconstructed across Route 99.

The design exception fact sheets for the proposed nonstandard features are being processed as explained in Section 6.2 of this report.

5. CORRIDOR AND SYSTEM COORDINATION

5.1 Route Description

State Route 99 (SR-99) is the principal north/south highway traversing the major cities within California's Central Valley. It is a High Emphasis/Focus Route in the Interregional Road System, making it a high priority for improvement for the Interregional Transportation Strategic Plan (ITSP). This route provides primary access for the movement of people, goods, and services and is considered the main transportation route for agricultural products.

State Route 219 (SR-219) (Kiernan Avenue) begins at SR-99 in the community of Salida in Stanislaus County, and ends 4.9 miles east at Route 108. SR 219 is being widened currently to four lanes under Caltrans Project EA 10-STA 0K00.

Broadway is the western extension of Kiernan Avenue past Salida Boulevard. It is a turn lane urban roadway fronted by local businesses. The cross section includes one travel lane in each direction, diagonal parking and buffer lane.

Sisk Road is a local collector street that runs from a terminus roughly 0.5 mile south of the Modesto Irrigation District main canal across Kiernan Avenue and Pelandale Road to North Carpenter Road in Modesto. In the project area Sisk Road carries 10,500 vehicles per day.

Salida Boulevard is a four-lane divided arterial roadway that runs parallel to SR-99 and connects West Kiernan Avenue to Pelandale Avenue.

5.2 System Designation

SR-99 is a primary route for movement of freight and goods. This route is on the National Network for STAA Trucks, with portions of SR-99 designated as a SHELL route for transporting "Permitted" over dimensional load. Between Bakersfield and Sacramento this route is identified as an Intermodal Corridor of Economic Significance (ICES) as mandated by Assembly Bill 1823, Statues of 1993.

SR-219 is in the Federal Aid Secondary (FAS) System but is not part of the Freeway and Expressway System. It is not part of the Inter-Regional Road System (IRRS) nor the National Highway System (NHS). SR-219 is functionally classified as a Major Collector. It is not in the State Highway Extra Legal Load (SHELL) Route System. It is basically a commute route and serves as a connector between Routes 99 and 108, with the majority of the commuter traffic as a result of the rapid growth of the cities of Modesto, Riverbank and Oakdale.

5.3 Planning Horizon

The project location is in an urban area. The existing **SR-99** facility is a 6-lane freeway. The concept Level of Service (LOS) is "C" for rural areas and "D" for the urban areas for SR-99. The Caltrans draft transportation concept report (TCR) for this segment of SR-99 identifies 20-year planning concept to be an 8-lane freeway to meet a concept LOS "D."

Improvements to **SR-219** are identified in the Stanislaus Area Regional Transportation Plan (RTP) Long-Range Improvement Program as well as the Regional Expressway Study. The RTP indicates that improvement to SR-219 is StanCOG's second priority major state highway project.

The ultimate concept for SR-219 is a six-lane conventional highway with limited access. The City of Modesto has developed a Plan Line Study reserving right of way and restricting access along the SR-219 corridor.

5.4 Programmed Projects

Planned and programmed projects are within 1 mile of SR-99/SR-219 on SR-99 are shown on the following **Table 5**:

TABLE 5
PLANNED AND PROGRAMMED PROJECTS IN THE VICINITY

	STATUS PLANNED AND PROGRAWINIED PROJECTS IN THE VICINITY										
STATUS	Expenditure Authorization	Post Mile (SR 219)	Location	Description	Begin Construction						
Proposed	0М950	00.10	SR-99/SR-219	CMS/CCTV/TMS on SR-99 to serve SR-219	TBD						
Programmed / Funded /Partially Funded	0K700	00.10	SR-99/SR-219	Reconstruct NB/SB off-ramps, relocate maintenance vehicle pullout/modify signals	Nov 2008						
Planned	0L330	00.10	SR-99/SR-219	Reconstruct SR-99/SR-219 Interchange	TBD						
Planned	Not Assigned	TBD	SR-219/SR-99 (close proximity)	Park and Ride Facility**	TBD						
Planned	Not Assigned	00.10/04.90	SR-99 to SR-108	Widen SR-219 to six lanes	2025						
Programmed / Funded /Partially Funded	0A870 and 0A872	00.10/04.90	SR-99 to SR-108	Class II Bike Facility included in CMIA widening project*	July 2008						
Programmed / Funded /Partially Funded	0A870	00.10/02.90	SR-219 from SR-99 to Morrow Lane SR-219	CMIA Project 4-Lane Widening, Phase I	July 2008						
Planned	Not Assigned	00.35/04.90	SR-219 from Sisk Road to SR-108	Class I Bike Facilify*	TBD						
Planned	Not Assigned	00.35	Sisk Road from Pirrone Road to Pelandale Avenue	Widen 2 to 4 lanes	2015						
Planned	Not Assigned	00.85	Stoddard Road from Kiernan Avenue to Ladd Road	from							
Planned	Not Assigned	TBD	MJC Connector from SR- 219 to TRRP	Class I Bike Facility*	TBD						

5.5 Union Pacific Railroad

The **Union Pacific Railroad** traverses north-south through the area, crossing Broadway Avenue just west of Salida Boulevard. The average number of trains per day is 19. The County of Stanislaus is planning an improvement project to add sidewalks and two lanes in each direction for the crossing of the UPRR. This work would be complete in 2009/2010, prior to construction of improvements at Kiernan/SR-99. No railroad grade separation is planned by either the County or the UPRR at this location. On June 17 2008, Stanislaus County Public Works staff met with Caltrans, UP Railroad and the PUC at the rail crossing on Broadway in Salida. This rail crossing is adjacent to the proposed Kiernan Interchange Reconstruction project. The purpose of the meeting was to discuss the width of the rail crossing to accommodate the future traffic operations of the intersection of Salida Blvd and Broadway. It was discussed that when widening the crossing the main element will be to construct pedestrian access across the railroad. Additional improvements will include median island reconstruction, and crossing arm relocation.

Additional items of discussion were the frequency of trains and the general operations of rail activity and how it would affect the intersection of Salida Blvd and Broadway. The significant finding was that the County would address the grade crossing as a separate project that would go before the interchange project so that the interchange project would not be impacted by railroad issues.

5.6 North County Corridor (NCC) Project

The North County Corridor (NCC) Project (EA 10-0S800) would provide approximately 24 miles of roadway on new alignment to provide interregional connectivity from SR 99 easterly to approximately 7.7 miles east of the SR 120/108 junction. It is anticipated that the ultimate facility type would be a four to eight lane controlled access highway, Category 1 project. The preliminary study limits are defined as starting at the State Route (SR) 99/Hammett Road Interchange on the west and extending eastward to Ellenwood Road, then northward to SR-120/l08 and ending east of the Oakdale Community. The proposed North County Corridor project is being developed as a replacement for the Route 108 Oakdale Bypass project. The California Transportation Commission (CTC) has programmed the project into PA&ED phase, and Caltrans intends to commit ITIP funds in the 2010 STIP cycle for up to \$91 million in capital money for an ITIP-eligible North County Corridor project segment. The CTC has funded NCC environmental studies in the STIP.

An ITIP-eligible project would require the NCC to be developed as a State Highway in the interregional road system. Legislation would be required to add an eligible route to Streets and Highways Code 164.10, and CTC action would be required to adopt an alignment. Legislation for the 2009 session was introduced by (name) on (date).

For the purpose of the Kiernan Avenue/SR 99 interchange project alternatives, the NCC is considered a local road project. It is assumed that NCC segments that might meet the CTC's conditions lie east of McHenry Avenue, or more significantly that the segment connecting to SR 99 would be a local road. Using concepts from the NCC programming document, it is assumed that the only modification along SR 99 would be the Hammett Road local road interchange modification. An NCC connection to SR 99 at Hammett Road that uses one of the HDM's local street interchanges would be considered standard with regard to interchange spacing on SR 99.

Caltrans has discussed with the County that, if the NCC segment connecting to Route 99 were proposed for transfer or adoption into the state highway system, a HDM freeway-to-freeway interchange should be assumed. Interchange spacing would then become an issue with both the Kiernan Avenue and Hammett Road interchanges on SR 99 and the Pirrone Road interchange on NCC. Future interchange spacing, interchange removal or modification, or approval of interchange spacing design exceptions would be required, depending on the outcome of NCC environmental studies, NCC project limits, timing, alignment selection and route adoption.

6. ALTERNATIVES

6.1 Alternatives Description

The Project Development Team (PDT) explored a number of viable alternatives at the Kiernan Avenue interchange during the PSR phase. The Project Team has developed Traffic Operations Reports for seven build alternatives:

Alternative 1 - Widen the Existing Compact Diamond Interchange

Alternative 2 – Hybrid (Type L-1 and Type L-6) Interchange

Alternative 3 - Modified Compact Diamond with Southbound Loop On-ramp

Alternative 4 - Modified Compact Diamond with Southbound Loop Off-Ramp

Alternative 5 – Hybrid (Type L-1 and Type L-10) Interchange

Alternative 6 - Modified Compact Diamond with SB Buttonhook Ramps North of Broadway

Alternative 7 - Modified Compact Diamond with SB Buttonhook Ramps South of Broadway

During the PDT meetings with Caltrans staff and other stakeholders, it was decided to drop Alternatives 3 through 7 from further analysis due to their poor operational performance, significant right of way impacts and cost.

No-Build Alternative

The **No-Build Alternative** would leave the existing interchange in its current configuration. No new ramp improvements or freeway auxiliary lanes would be constructed with this alternative. Unacceptable levels of service would occur at the ramp intersections and the freeway would not accommodate forecast traffic volumes.

Build Alternatives

Alternative 1 - Modified Compact Diamond (Type L-1) Interchange

Alternative 1 is the recommended alternative for programming. This alternative would replace the current bridge over SR-99 with a wider bridge with increased vertical clearance over SR-99, thus eliminating an existing non-standard vertical clearance condition. The existing interchange ramps, intersections and local roads would be widened to accommodate forecasted turning movements, resulting in a cross section of 8 lanes on the SR 219 (Kiernan Avenue) overcrossing of SR-99. An auxiliary lane is proposed on SR-99 in each direction between SR 219 and Pelandale Avenue interchanges to improve traffic merge and diverge movements. The Geometric Approval Drawings (GADs) for Alternative 1 are provided in **Attachment B**. The estimated construction and right of way cost in current dollars for this alternative is as follows:

Total Roadway Items	\$ 29,100,000
Total Structure Items	\$ 7,000,000
Subtotal Construction Costs	\$ 36,100,000
Total Right Of Way Items	\$ 9,100,000
Total Project Capital Outlay Costs	\$ 45,200,000

Alternative 2 - Hybrid (Type L-1 and L-6) Interchange

This alternative would eliminate the current Kiernan Avenue/SR-99 southbound on-ramp intersection, and would construct new SR-99 southbound off and on-ramps to connect SR-99 to and from Salida Boulevard with a grade-separated ("braided") ramp configuration. Auxiliary lanes are again proposed on SR-99 between the Kiernan Avenue and Pelandale Avenue interchanges. The Geometric Approval Drawings (GADs) for Alternative 2 are provided in **Attachment C**. The estimated construction and right of way cost in current dollars for this alternative is as follows:

Total Project Capital Outlay Costs	\$ 72,200,000
Total Right Of Way Items	\$ 10,600,000
Subtotal Construction Costs	\$ 61,600,000
Total Structure Items	\$ 12,300,000
Total Roadway Items	\$ 49,300,000

Cost estimates for both alternatives are provided in **Attachment D**. Right of way data sheets are provided in **Attachment E**.

6.2 Design Exceptions

The following are the design exceptions for the recommended Alternative 1:

Mandatory Exception #1: Intersection Spacing

A minimum of 400 feet shall be provided between each ramp intersection and the adjacent local street intersection per Index 504.3(3) of Highway Design Manual.

Spacing between SB ramps and Salida Boulevard intersections on Kiernan Avenue is 216 feet. Significant impacts to the traffic circulation and existing established neighborhoods and congestion at Route 99/Pelandale Avenue Interchange are the reasons for requesting this exception.

Mandatory Exception #2: Interchange Spacing

The minimum interchange spacing shall be one mile in urban areas per Index 501.3 of Highway Design Manual.

Existing interchange spacing on SR-99 between Pelandale Avenue and Kiernan Avenue interchanges is 0.82 mile. This is a pre-existing condition that cannot be remedied by the project due to excessive costs, significant impacts to the existing neighborhoods and substantial right of way acquisition.

Mandatory Exception #3: Maximum Superelevation Rate

Maximum superelevation rates from Table 202.2 of Highway Design Manual shall be used within the given- range of curve radii.

The proposed maximum superelevation rate for the horizontal curve on Kiernan Avenue is 0.02.. This is existing condition; significant impacts to the existing neighborhoods and pedestrian access are the major reasons to avoid providing standard superelevation rate at Kiernan Avenue.

Advisory Exception #1: Curb Ramps

For new construction, two curb ramps should be installed at each corner per HDM Index 105.4(2)] Only one curb ramp is proposed at all the corners of SR-99 NB ramps at intersections with Kiernan Avenue, and at the two east corners of SR-99 SB ramps at intersections with Kiernan Avenue. The

reason for reducing number of cross walks is to increase the safety of pedestrians as it reduces number of vehicular/pedestrian conflicts at any point of time at ramp intersections.

Advisory Exception #2: Weaving Sections

Weaving sections in urban areas should be designed for LOS C or D per HDM *Index 504.7*. The LOS at the weaving section between the SR-99 Pelandale Avenue and Kiernan Avenue interchanges is F. Significant costs and environmental impacts are the main reasons for requesting this exception. The freeway needs to be widened northbound and southbound directions to achieve level of service D or better at this location.

The Design Exception fact sheets were prepared and were reviewed for the above nonstandard features. After review of the most recent submittal of the mandatory fact sheet, Ken Cozad, Caltrans HQ Design Coordinator and Michael Janzen, HQ Design reviewer are able to concur that both build alternatives do not contain any fatal flaws and are worthy of further consideration. Mandatory fact sheet preparation will resume in the 0 phase.

6.3 Storm Water Discussion

A Storm Water Data Report was prepared and was approved by the District 10 Storm Water Coordinator. The signed cover sheet of the Storm Water Data Report (SWDR) is provided in **Attachment F**. The proposed project would change the existing flow pattern, and divert new ramp stormwater runoff into new infiltration basins proposed within the project limits. Although the proposed new infiltration basins are located within a geographical area regulated by the Stanislaus County MS4 Permit, they are designed to accommodate all the stormwater runoff from the new facility (ramps and southbound aux. lanes) with no overflow outlets, and no connection to the MS4 system or surface waters. There are no surface waters indicated on the 7.5 minute USGS quadrangle within the project limits.

By constructing new basins, the runoff to the pump station that drains into Stanislaus River would be reduced significantly. The runoff from the existing ramps (3.53 acres) would not continue to discharge into the pump station but would be diverted to the infiltration basins. The runoff from northbound auxiliary lane (0.44 acres) would be added to existing storm drain system that drains into the pump station. It is proposed to perpetuate this existing flow pattern for the reduced flows that are pumped to the Stanislaus River, and no new permanent treatment is proposed to be provided for those reduced flows. Furthermore, the project would include Design Pollution Prevention BMPs and Temporary Construction Site BMPs as required. Provision is made in the project cost estimates to extend the existing cross drainage structures to convey the storm water discharge. More detailed investigations and studies are required in the final design phase to confirm the hydraulic and structural adequacy of the existing drainage system.

6.4 Transportation Management Plan

A Transportation Management Plan (TMP) Checklist has been prepared to identify traffic control strategies necessary to reduce vehicle delays during construction. The TMP Checklist is provided in **Attachment G**. It is anticipated that temporary lane closures would be required for setting K-rail and lane width reductions would be required for work zones. Provision is made for changeable message signs, K-rail and temporary traffic screens during construction. The project cost estimate includes \$250,000 for TMP and \$250,000 for COZEEP. The District 10 Traffic Management Unit would be consulted to develop a concise TMP limits.

6.5 Traffic Operations

The Traffic Operations Report was prepared by Rajappan & Meyer Consulting Engineers, Inc. and approved by Caltrans District 10 Traffic Operations Unit in July 16, 2008. Level of service analysis was performed for the study intersections for each build alternative for Year 2035 AM and PM peak hour traffic.

All intersections in alternatives 1 and 2 operate at LOS "D" or better based on Synchro results given in Table 6.

TABLE 6
SR-99/SR-219 (KIERNAN AVENUE) INTERCHANGE
INTERSECTION LEVEL OF SERVICE SUMMARY (SYNCHRO) (Year 2035)

Intersection	Peak hour	2035 No-Build				2035 Alternative 1		2035 Alternative 2		
	noui	LOS	Control Delay (Sec)	V/C	LOS	Control Delay (Sec)	V/C	LOS	Control Delay (Sec)	V/C
Broadway and Salida	A.M.	F	126.0	1.27	С	31.9	0.76	С	30.4	0.92
Blvd	P.M.	F	348.0	2.12	С	29.3	0.96	С	26.2	0.92
Kiernan Ave and SR-99	A.M.	F	678.7	2.9	D	38.3	0.98	-	-	-
SB on/ off ramps	P.M.	F	362.5	2.15	С	23.8	0.88	-	-	-
Kiernan Ave and SR-99	A.M.	F	828.9	3.12	С	29.5	1.12	Α	8.7	0.83
NB on/ off ramps	P.M.	F	621.7	2.64	С	25.6	1.11	В	10.6	0.90
Kiernan Avenue and	A.M.	F	1061.1	4.0	D	38.9	0.90	D	42.2	0.91
Sisk Rd	P.M.	F	815.7	3.1	F	107.8	1.35	F	98.5	1.26
Salida Blvd and SR-99	A.M.	-	-	~	_	-	-	А	1.5	0.66
SB off ramp	P.M.	7	-	-	-	-	-	Α	2.3	0.59
Salida Blvd and SR-99	A.M.	-	-	-	-	-	-	Α	4.3	0.72
SB on ramp	P.M.	-	_	-	-	· _	_	В	17.4	1.05

Due to the proximity of intersections and the Union Pacific Railroad, Caltrans advised that the HCM methodology was not the appropriate tool for calculating potential delay. Therefore, SimTraffic was used to calculate the delay in order to take into account the effects of the adjacent intersections. The SimTraffic results are given in **Table 7**. Some of the intersections experience long delays and queues in the simulation. SimTraffic results show that the ramp and local intersection operate at excessive delay for the year 2035 forecasted volumes, even though all the study intersections would operate better for all build alternatives, as compared to the no build condition. The interchange cannot be improved any further to achieve acceptable levels of service, without closing some of the local intersections and significantly affecting or acquiring some of the established commercial properties that are located along Kiernan Avenue/Broadway.

Since 2035 SimTraffic method produced excessive delay results, the intersections were studied with estimated 2025 volumes. The volumes were extrapolated using straight line interpolation between years 2002 and 2035. The traffic operations results for the year 2025 are summarized in **Tables 8** and **9** for no build and build conditions. The intersection at Kiernan Avenue/Sisk Road still appears to fail earlier than 2025 because of the westbound traffic queuing up in the right lane to access the northbound on-ramp. Otherwise, all other study intersections would operate within acceptable levels of delay. As a result, the design year for the project is recommended to be lowered to the year 2025, for which all the ramp intersections and Salida Boulevard operate at acceptable levels of service.

TABLE 7 SR-99/SR-219 (KIERNAN AVENUE) INTERCHANGE

Intersection	Peak	2035 No-Build			20	35 Alterna	itive 1	2035 Alternative 2		
	hour	LOS	Delay (Sec)	Density	LOS	Delay (Sec)	Density	LOS	Delay (Sec)	Density
Broadway and Salida Blvd	A.M.	F	6446.2	110	F	554.1	98	D	43.4	146
Dioadway and Sanda Bivu	P.M.	F	5137.8	89	С	29.7	242	D	46.2	112
Kiernan Ave and SR-99	A.M.	F	3339.5	88	F	150.4	133	-	~	-
SB on/ off ramps	P.M.	F	2644.9	68	F	93.2	107	-	-	-
Kiernan Ave and SR-99	A.M.	F	1401.8	64	Ē	91.6	132	D	42.5	136
NB on/ off ramps	Р.М.	F	848.2	62	С	20.7	154	F	116.6	78
Kiernan Avenue and Sisk	A.M.	F	1399.6	65	F	316.4	149	F	328.5	150
Rd	P.M.	F	2826.7	59	F	712.1	134	F	869.6	72
Salida Blvd and SR-99 SB	A.M.	-	-	-	-	-	-		529.6	89
off ramp	P.M.	•	-	-	-	-	-	Ē	142.4	96
Salida Blvd and SR-99 SB	A.M.	_	-	-	-	-	-	F	483.9	140
on ramp	P.M.	-	-		-	-	-	В	11.3	203

Bold indicates unacceptable level of service and delay. The results are based on the analysis done based on SimTraffic 7

TABLE 8 SR-99/SR-219 (KIERNAN AVENUE) INTERCHANGE 2025 INTERSECTION LEVEL OF SERVICE SUMMARY (SYNCHRO)

Intersection	Peak	2025 No-Build			2025 Alternative 1			2025 Alternative 2		
	hour	LOS	Control Delay (Sec)	V/C	LOS	Control Delay (Sec)	V/C	LOS	Control Delay (Sec)	V/C
Broadway and Salida	A.M.	F	212.2	1.68	С	23.2	0.58	С	20.5	0.71
Blvd	P.M.	D	46.8	0.97	С	25.5	0.77	В	18.6	0.75
Kiernan Ave and SR 99	A.M.	F	426.8	2.23	С	23.4	0.80	-	-	-
SB on/ off ramps	P.M.	F	240.2	1.78	С	20.4	0.82	-	-	-
Kiernan Ave and SR-99	A.M.	F	522.1	2.35	В	11.8	0.78	Α	6.8	0.65
NB on/ off ramps	P.M.	F	316.6	1.95	В	13.7	0.93	Α	7.0	0.74
Kiernan Avenue and	A.M.	F	557.8	2.46	С	23.8	0.72	С	25.7	0.71
Sisk Rd	P.M.	F	692.9	2.93	D	43.8	0.94	D	37.8	.85
Salida Blvd and SR-99	A.M.	1	-	-	-	· -	H4	Α	1.2	0.51
SB off ramp	P.M.	-	-	-	-	-	-	Α	1.2	0.51
Salida Blvd and SR-99	A.M.	_	-	-	-	-	-	Α	4.6	0.60
SB on ramp	P.M.	-	-	-	-	-	-	Α	5.4	0.88

- Intersection is not present in Alternative

Bold indicates unacceptable level of service and delay. The results are based on the analysis done based on Synchro 7

TABLE 9
SR-99/SR-219 (KIERNAN AVENUE) INTERCHANGE
2025 INTERSECTION LEVEL OF SERVICE SUMMARY (SIMTRAFFIC)

Intersection	Peak hour	2025 No-Build			2025 Alternative 1			2025 Alternative 2		
		LOS	Delay (Sec)	Density	LOS	Delay (Sec)	Density	LOS	Delay (Sec)	Density
Broadway and Salida	A.M.	F	5199.1	101	D	35.4	268	С	34.6	186
Blvd	P.M.	F	2503.5	69	С	28.8	294	С	28.6	171
Kiernan Ave and SR-99 SB on/ off ramps	A.M.	F	2189.8	86	С	25.7	187	-	-	-
	P.M.	F	1454.4	69	С	24.2	177	-	-	-
Kiernan Ave and SR-99 NB on/ off ramps	A.M.	F	773.1	66	В	10.8	256	С	24.3	186
	P.M.	F	602.7	64	В	10.5	232	С	24.7	165
Kiernan Avenue and Sisk Rd	A.M.	F	918.1	64	F	147.9	190	F	202.7	194
	P.M.	F	1812.2	58	F.	297.7	175	F	328.9	115
Salida Blvd and SR-99 SB off ramp	A.M.	-	-	_	_	-	-	С	34.3	170
	P.M.	-	_		-	-	-	Α	8.3	283
Salida Blvd and SR-99 SB on ramp	A.M.	-	_	-	-		-	В	10.4	306
	P.M.	-	-	-	-	-	-	Α	9.0	257
- Intersection is not present in A Bold indicates unacceptable lev		e and delay	. The results are	based on the	analysis	done based o	on SimTraffic	7		1

6.6 Design Period

The Project Development Team (PDT) has agreed on less than a 20-year design period for the Project. The PDT has balanced traffic operations against Highway Design Manual, 6th Edition, Index 103.2 'Design Period' to meet a 10-year design period for the SR-99/SR 219 interchange, with analysis based on standard evaluation tools. The District 10 Traffic Operations is in agreement with the interchange operations performance in the 20th year after the completion of the Project.

The original analysis using Synchro software (based on the Highway Capacity Manual) showed adequate level of service for 20 year operations at the study intersection. However, due to the proximity of intersections with the Union Pacific Railroad, Caltrans advised the design consultant that HCM was not adequate for calculating delay, and that SimTraffic software be used to calculate the delay in order to take into account the effects of the adjacent intersections. The SimTraffic results show that some of the intersections experience long delays and queues in the simulation. The interchange cannot be improved any further without closing some of the local intersections and significantly affecting and/or acquiring the established commercial properties that are located along Kiernan Avenue/Broadway to achieve acceptable levels of service. However, when the proposed interchange was analyzed for traffic forecasted volumes of the year 2025, the traffic operations based on SimTraffic results showed that all the ramp intersections and Salida Boulevard would operate at acceptable levels of service for the year 2025.

The District 10 Traffic Operations Branch has reviewed and approved the Traffic Operations Report which reflects the Design Period of 10 years.

6.7 Value Analysis

The Value Analysis to evaluate the alternatives will be completed in the PA&ED phase.

7. COMMUNITY INVOLVEMENT

Initial public meetings were held in November 2004 to present the scope of interchange improvements. Broad community support is anticipated for the interchange modification. No known opposition exists.

Additional public meetings will be held by Stanislaus County during the PA&ED phase. These meetings will provide opportunity for members of the public and other public agencies to comment or request clarification about the proposed project and related documents,

8. ENVIRONMENTAL DETERMINATION/DOCUMENT

A Preliminary Environmental Analysis Report (PEAR) was prepared on November 25, 2008, approved by Caltrans Central Region Environmental Unit on January 12, 2009, and is provided in **Attachment H**. This section describes the findings of the PEAR document.

The anticipated environmental documentation would be an Initial Study/Mitigated Negative Declaration for the California Environmental Quality Act and an Environmental Assessment/Finding of No Significant Impact for the National Environmental Policy Act, should federal or STIP funding be sought by the County. Caltrans would be the lead agency for the purposes of both the California Environmental Quality Act and the National Environmental Policy Act.

9. FUNDING AND PROGRAMMING

9.1 Capital Cost

The project is anticipated to be funded by a combination of Public Facility Fee (PFF), future sales tax revenue and funding from the State Transportation Improvement Program (STIP). Stanislaus County has adopted and is already collected some traffic mitigation funds through City/County Transportation Facilities Public Facility Fee (PFF) program. Stanislaus Council of Government's 2007 Regional Transportation Plan shows \$60 million of fiscally constrained funding for this project in 2010. The anticipated total collection through the PFF is \$50 million in 2007 dollars for this project, as shown in the Stanislaus County Impact Fee Update Study, completed in September 2008. The County will pursue STIP funding for construction phases to cover any shortfalls.

Alternative 1 is the recommended alternative for programming.

The estimated construction and right of way cost for this alternative in current (2008) dollars is as follows:

Total Roadway Items	\$ 29,100,000
Total Structure Items	\$ 7,000,000
Subtotal Construction Costs	\$ 36,100,000
Total Right Of Way Items	\$ 9,100,000
Total Project Capital Outlay Costs	\$ 45,200,000

The escalated values for all project components are provided in the following Table 10:

TABLE 10 ESCALATED IMPLEMENTATION COSTS

160						
COMPONENT	РСТ	OF	CURRENT DOLLARS	BEGINNING OF COST*	ANNUAL PCT ESCALATION	ESCALATED COST
PA/ED	3%	CONST	\$1,083,000	1/1/2009	0%	\$1,083,000
PS&E	11%	CONST	\$3,971,000	11/30/2009	0%	\$3,971,000
R/W Support	10%	R/W	\$910,000	4/20/2010	3.5%	\$975,000
R/W Capitol	100%	R/W	\$9,100,000	4/20/2010	3.5%	\$9,750,000
Constr. Support	12%	CONST	\$4,332,000	12/8/2011	3.5%	\$4,803,000
Construction	100%	CONST	\$36,100,000	12/8/2011	3.5%	\$40,025,000
TOTAL COST			\$55,496,000	VIII		\$60,607,000

9.2. Capital Support Estimate for Programmable Alternative

Estimated support costs for the project are shown in Table 11:

TABLE 11 ESCALATED SUPPORT COSTS

COMPONENT	FY 08-09	FY 09-10	FY 10-11	FY 11-12	FY 12-13	FY 13-14	TOTAL
PA/ED	\$1,083,000						\$1,083,000
PS&E		\$2,000,000	\$1,971,000				\$3,971,000
R/W Support		\$910,000					\$910,000
Constr. Support			\$800,000	\$3,003,000	\$1,000,000		\$4,803,000
TOTAL ESC. COST	\$1,083,000	\$2,900,000	\$2,771,000	\$3,003,000	\$1,000,000		\$10,767,000

A Cooperative Agreement has been executed for PA&ED phase activities, and is provided in Attachment I. Note that the cooperative agreement shows only postmile limits for Route 99. The project includes a portion of Route 219. This will be added to the Cooperative Agreement in the PA/ED phase.

10. SCHEDULE

Table 12 provides the proposed schedule for delivery of project milestones for the Alternative 1:

TABLE 12 PROPOSED MILESTONE SCHEDULE

No.	<u>Milestone</u>	Date
1.	M000 - IDENTIFY NEED	07/01/2005
2.	M010 - APPROVE PID	06/01/2009
3.	M015 - PROGRAM PROJECT	06/01/2009
4.	M020 - BEGIN ENVIRONMENTAL	02/01/2009
5.	M030 - NOTICE OF PREPARATION (NOP)	N.A.
6.	M040 - BEGIN PROJECT REPORT	02/01/2009
7.	M100 - APPROVE DPR	12/02/2009
8.	M120 - CIRCULATE DED	11/09/2009
9.	M160 - APPROVE FED	05/19/2010
10.	M200 - PA & ED	06/19/2010
11.	M210 - BEGIN DESIGN	12/30/2009
12.	M221 - BRIDGE SITE DATA ACCEPTED	03/09/2010
13.	M224 - RIGHT OF WAY MAPS	03/19/2010
14.	M225 - REGULAR RIGHT OF WAY	04/18/2011
15.	M275 - GENERAL PLANS	06/14/2010
16.	M311 - 30% CONST REVIEW COMPLETED	06/14/2010
17.	M313 - 60% CONST REVIEW COMPLETED	10/03/2010
18.	M315 - 95% CONST REVIEW COMPLETED	12/12/2010
19.	M378 - DRAFT STRUCTURES PS&E	03/04/2011
20.	M380 - PROJECT PS&E	05/01/2011
21.	M410 - RIGHT OF WAY CERTIFICATION	03/18/2011
22.	M460 - READY TO LIST	06/08/2011
23.	M480 - COUNTY ADVERTISE	06/09/2011
24.	M495 - AWARD	08/15/2011
25.	M500 - APPROVE CONSTRUCTION CONTRACT	09/12/2011
26.	M600 - CONTRACT ACCEPTANCE	02/24/2014

11. FHWA COORDINATION

This is a delegated project pursuant to the 2007 Joint Stewardship and Oversight Agreement between Caltrans and FHWA.

12. DISTRICT/LOCAL ENTITY CONTACTS

Caltrans - District 10

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 Vu Nguyen, District Traffic Operations
 Jose Huerta, District Design Oversight
 (209) 948-1345
 (209) 603-5126
 (209) 948-7902

Stanislaus County

1010 10th Street, Suite 3500, Modesto, CA 95354

o Matt Machado, Public Works Director (209) 525-7581

Chris Brady, Senior Engineer

Rajappan & Meyer Consulting Engineers, Inc. (Management, Civil and Structural)

1038 Leigh Avenue, San Jose, CA 95126

o Keith Meyer, Principal (408) 280-2772

Martha Dadala, Design Manager

Kianoush Harirsaz, Structural Design Manager

Dowling Associates (Traffic)

180 Grand Avenue, Suite 250, Oakland, California USA 94612

o Joe Holland, Principal (925) 284-3200

LSA Associates, Inc. (Environmental)

4200 Rocklin Road, Suite 11B, Rocklin, California 95667

o Bill Mayer, Principal (916) 630-4600

o Edward Heming, Environmental Manager

13. PROJECT REVIEWS

District Maintenance Review	Date	July 09, 2008
District Safety Review	Date	October 23, 2008
Constructability Review	Date	October 23, 2008
HQ Design Coordinator	Date	July 03, 2008
DES Review	Date	July 08, 2008

14. ATTACHMENTS

Attachment A - Vicinity Map

Attachment B – Geometric Approval Drawings (Alternative 1)

Attachment C – Geometric Approval Drawings (Alternative 2)

Attachment D – Cost Estimates

Attachment E – Right of Way Data Sheets (RWDS)

Attachment F – Storm Water Data Report Cover Sheet (SWDR)

Attachment G – TMP Checklist

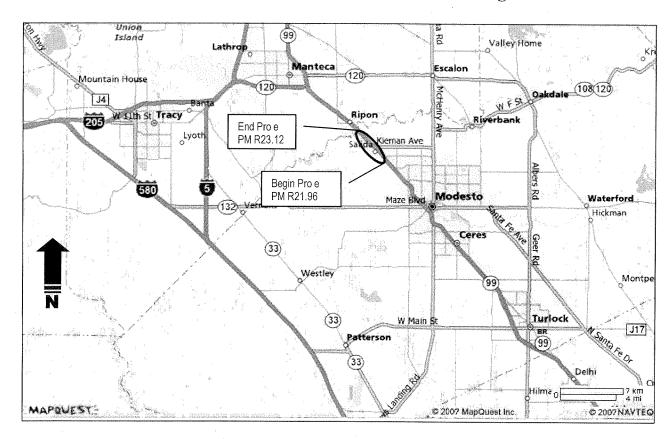
Attachment H - PEAR Document

Attachment I - Cooperative Agreement

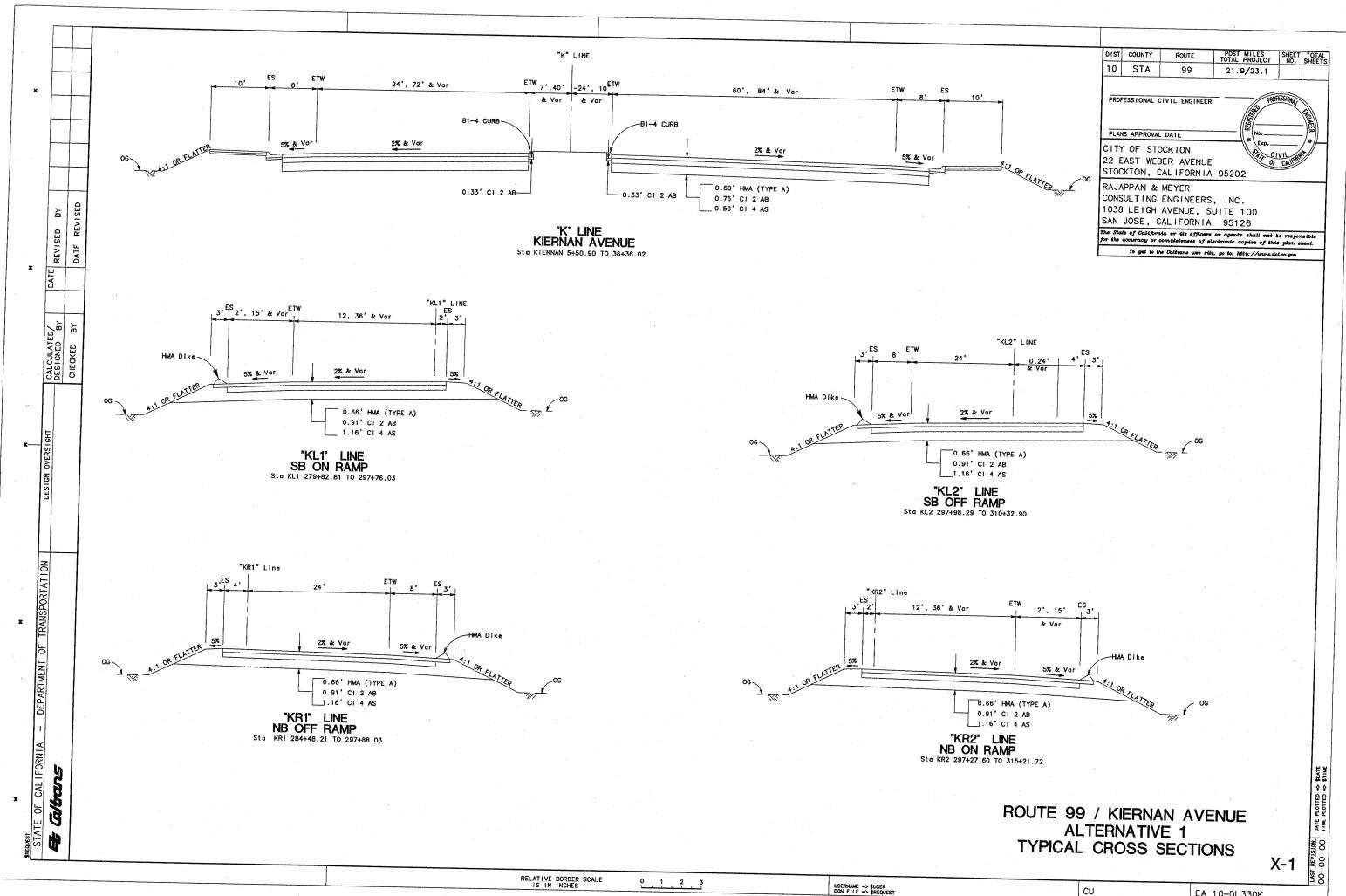
ATTACHMENT A VICINITY MAP

VICINITY MAP

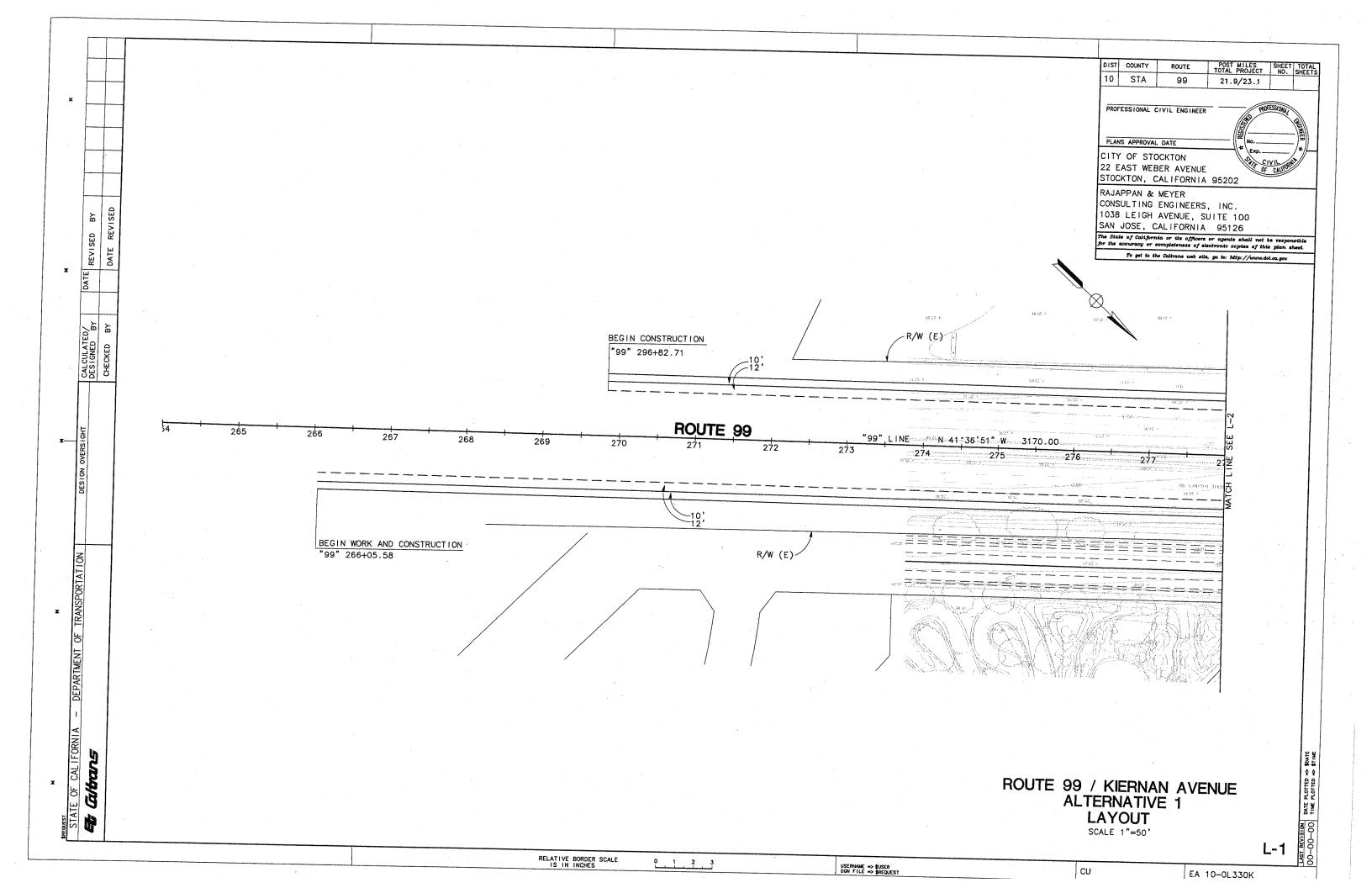
Route 99/Kiernan Avenue Interchange

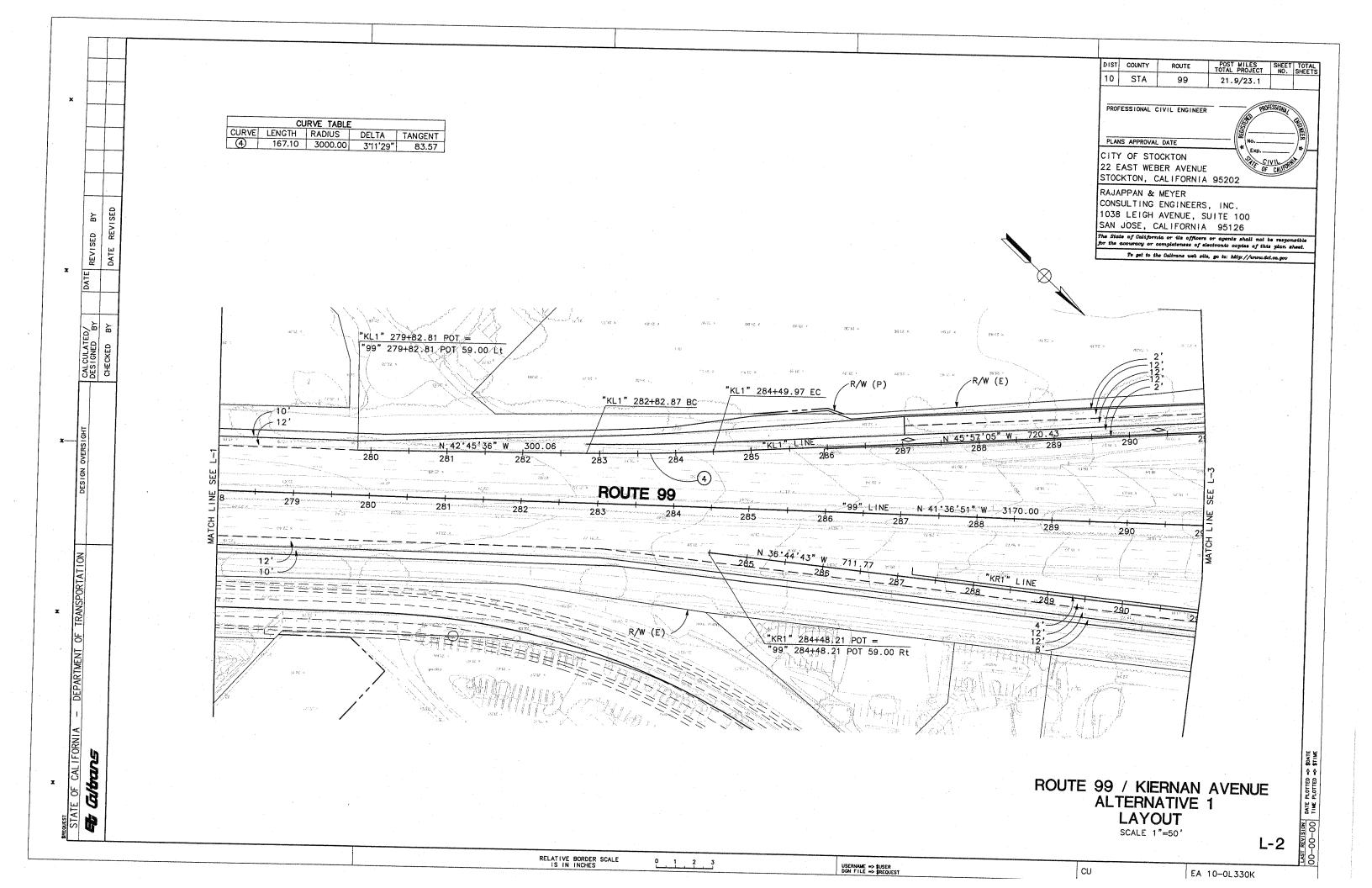


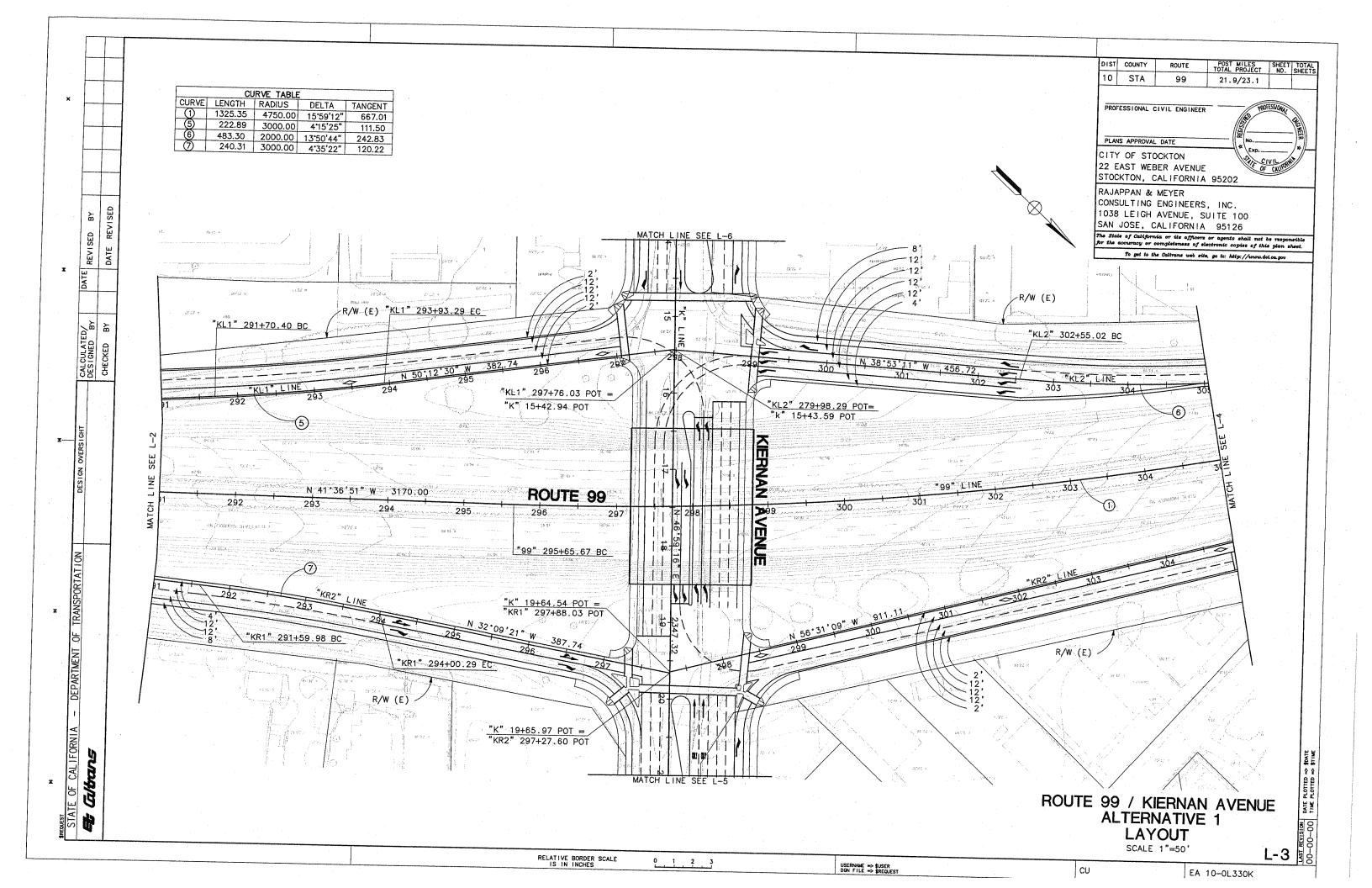
ATTACHMENT B GEOMETRIC APPROVAL DRAWINGS (ALTERNATIVE 1)

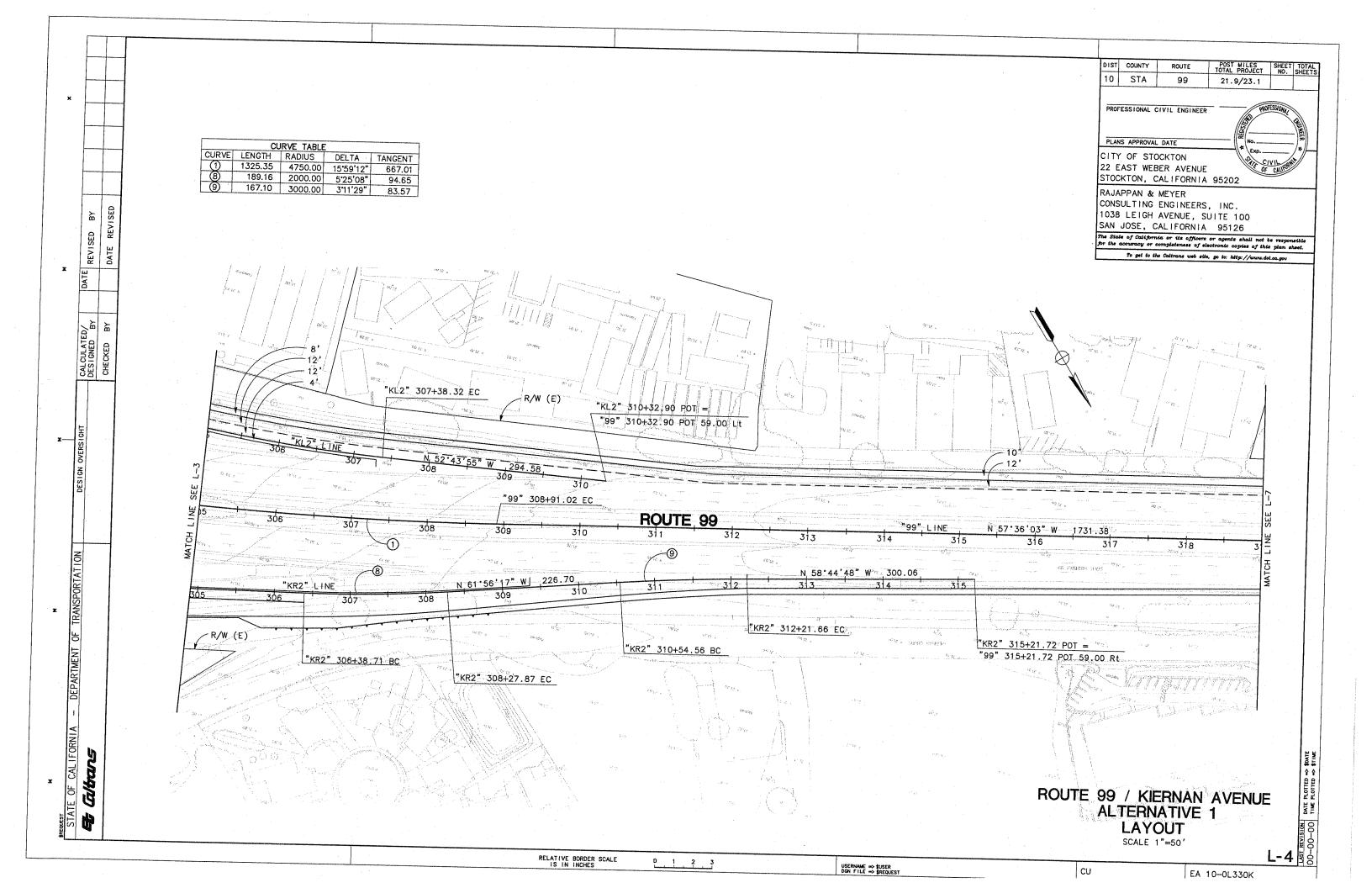


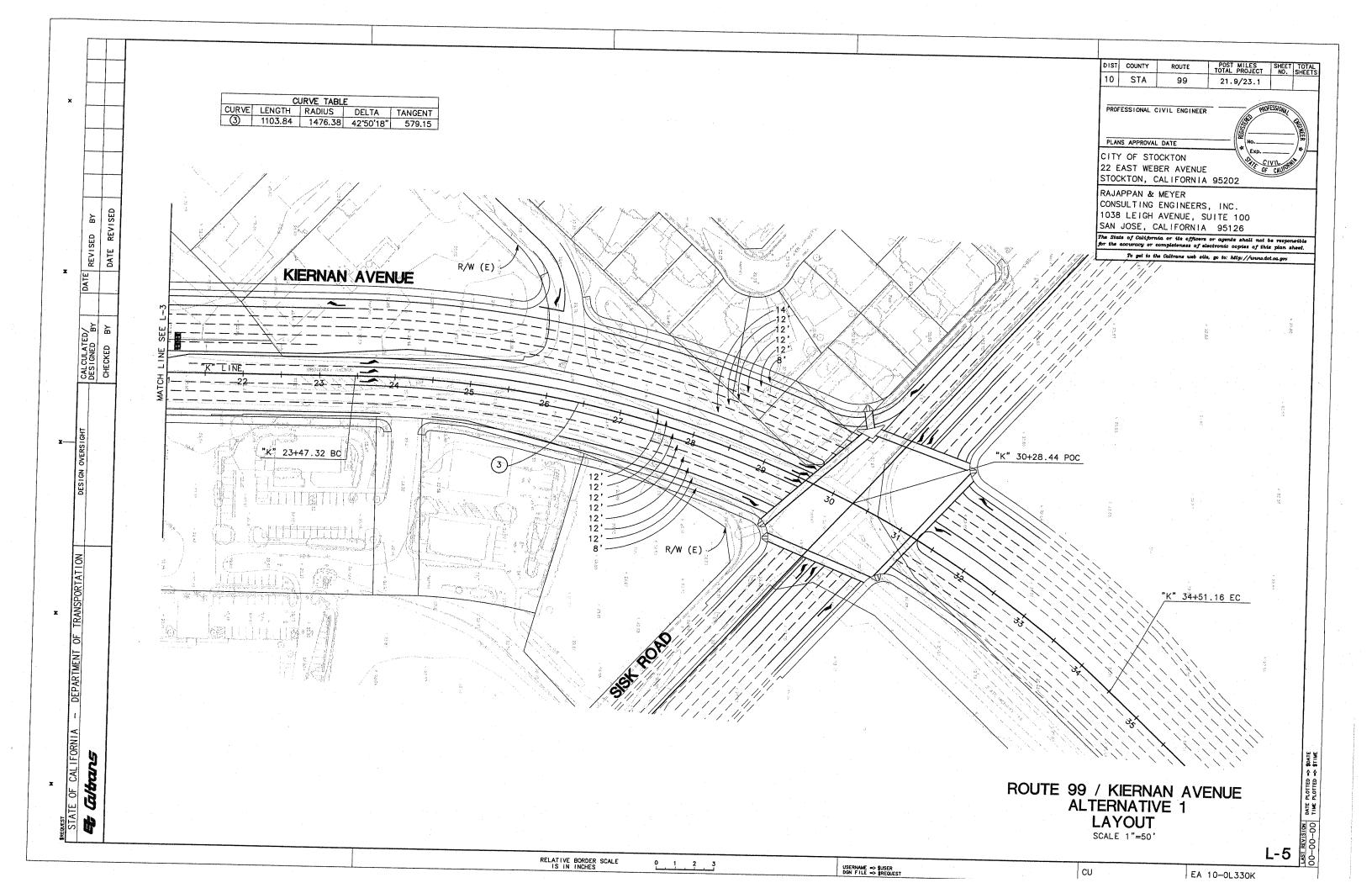
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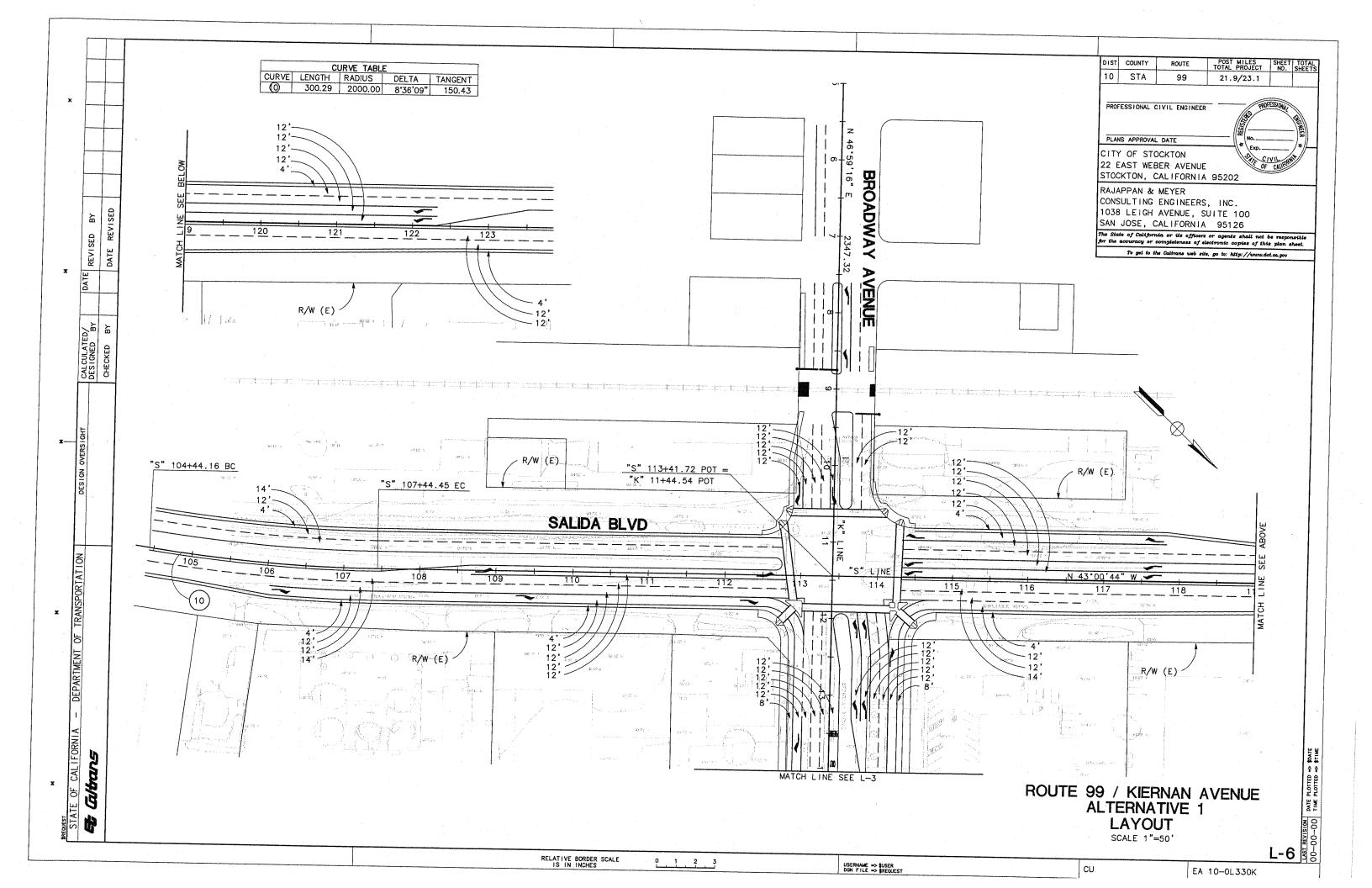


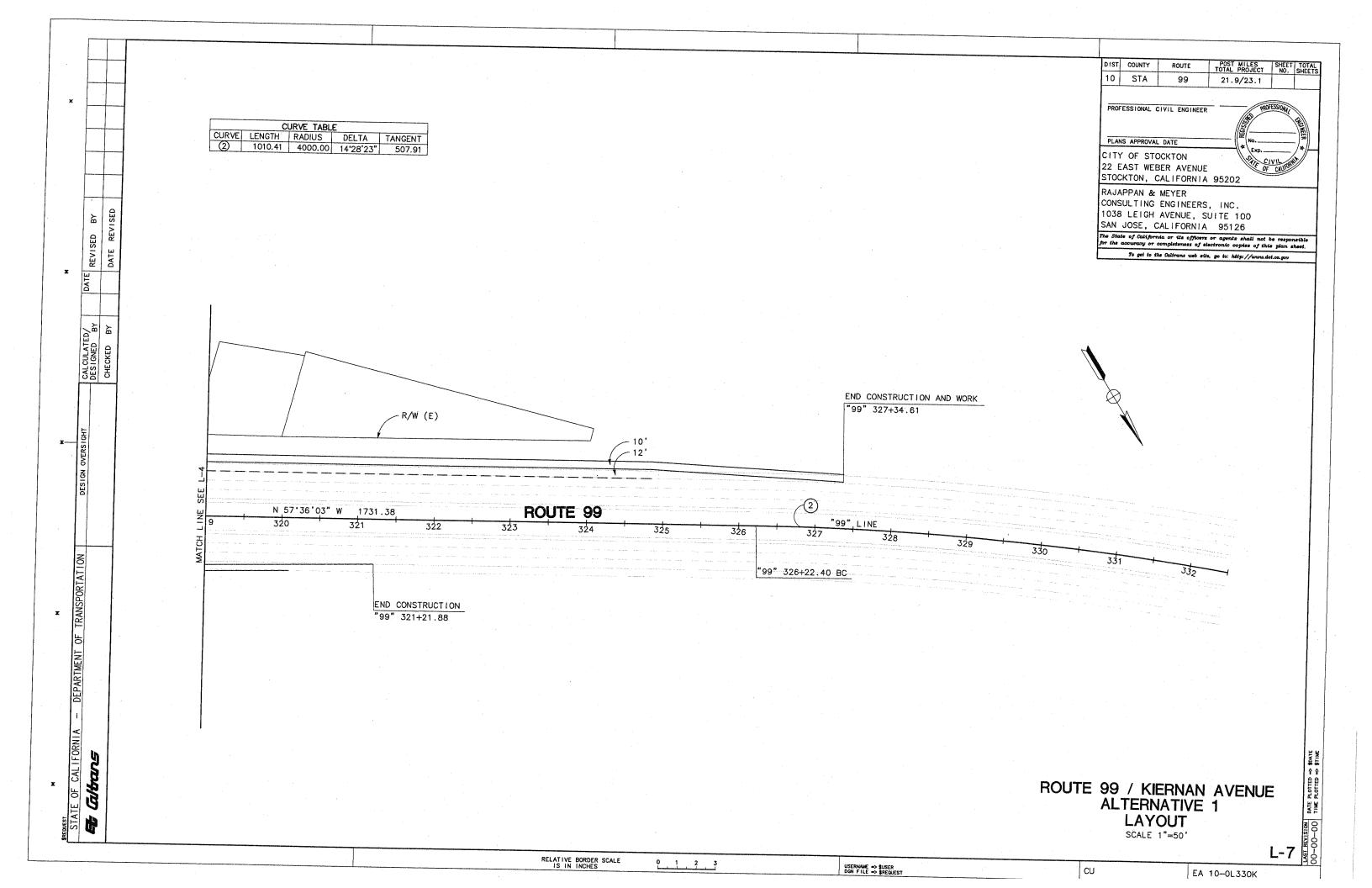


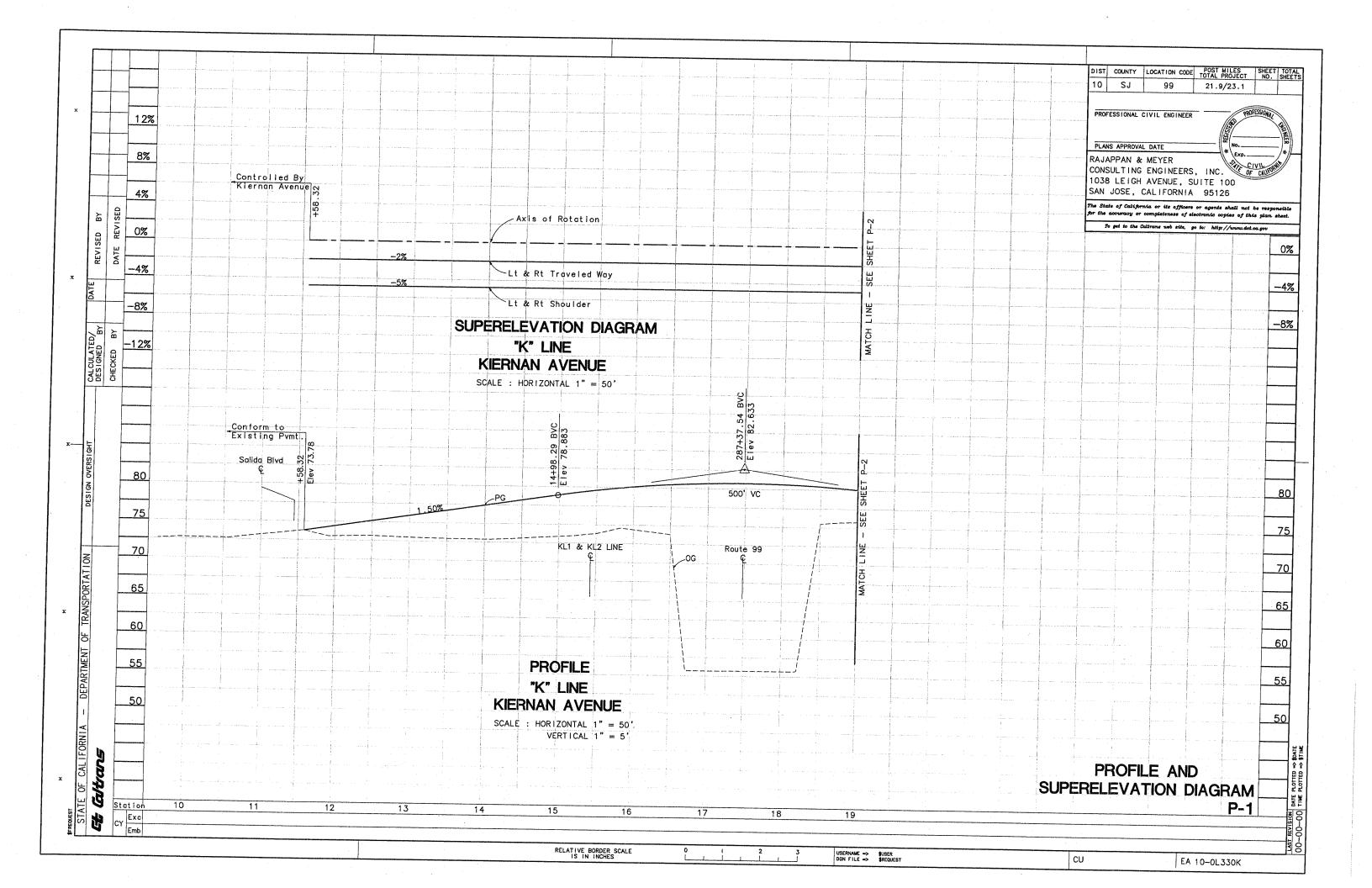


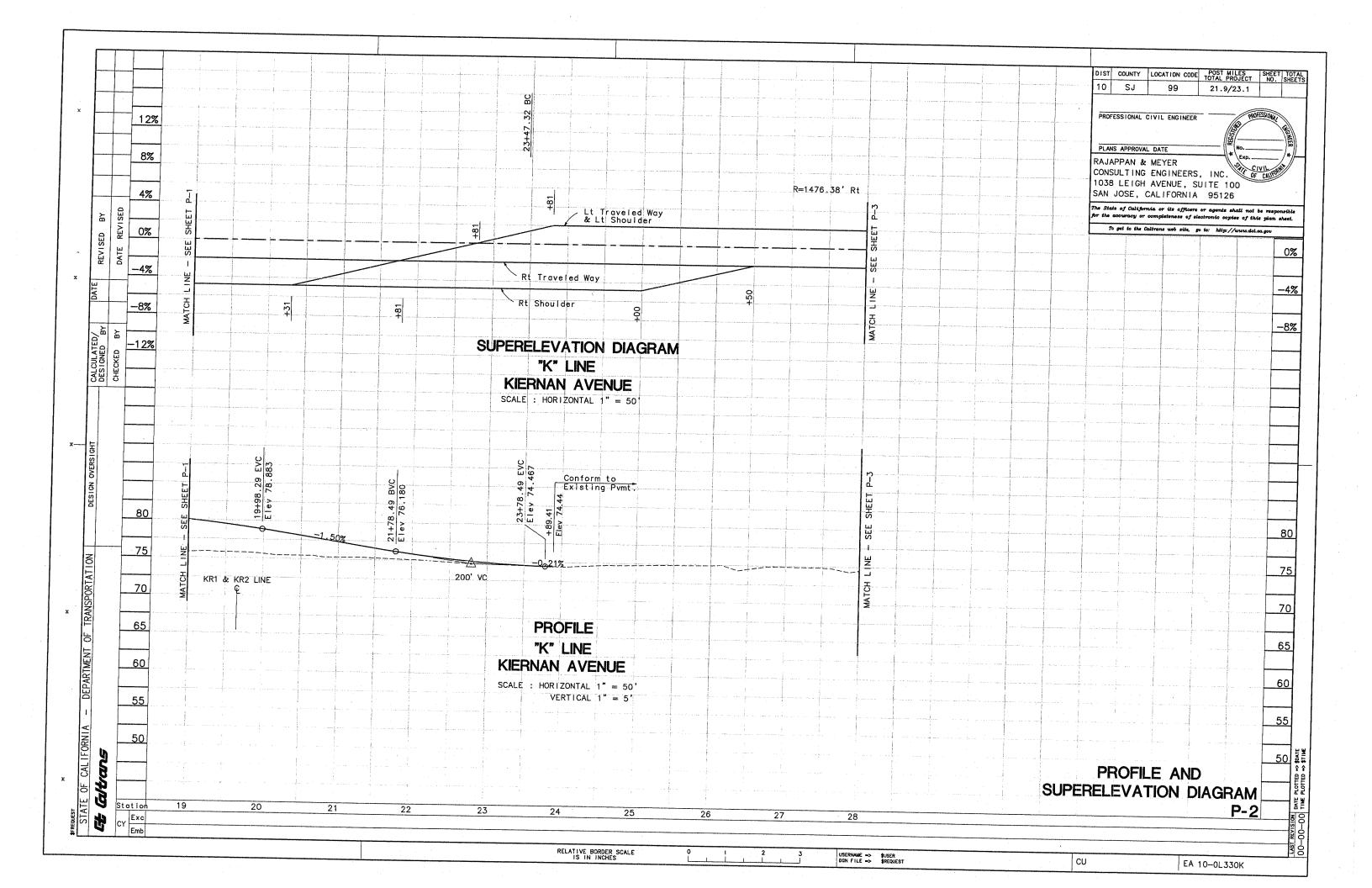


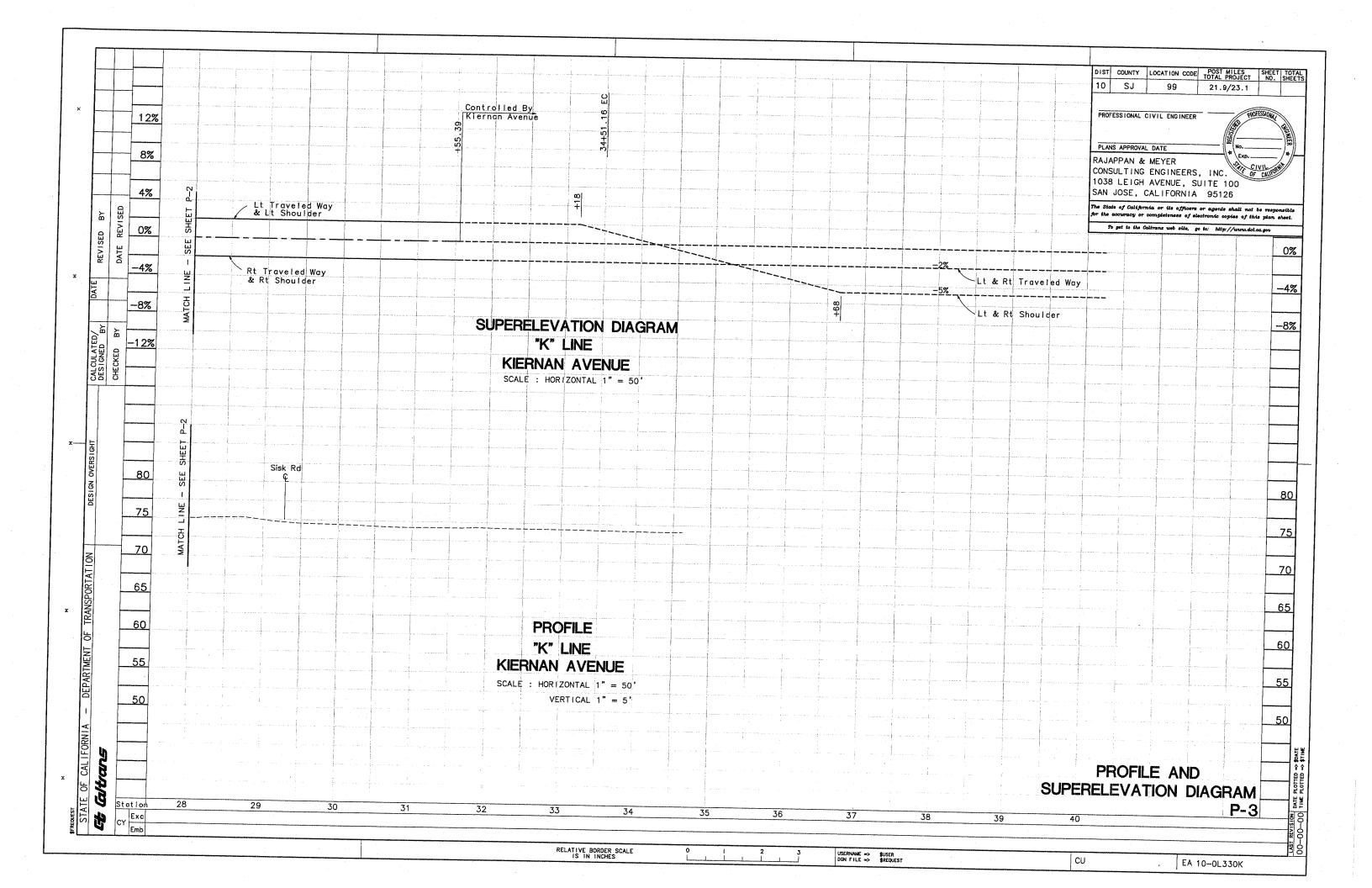


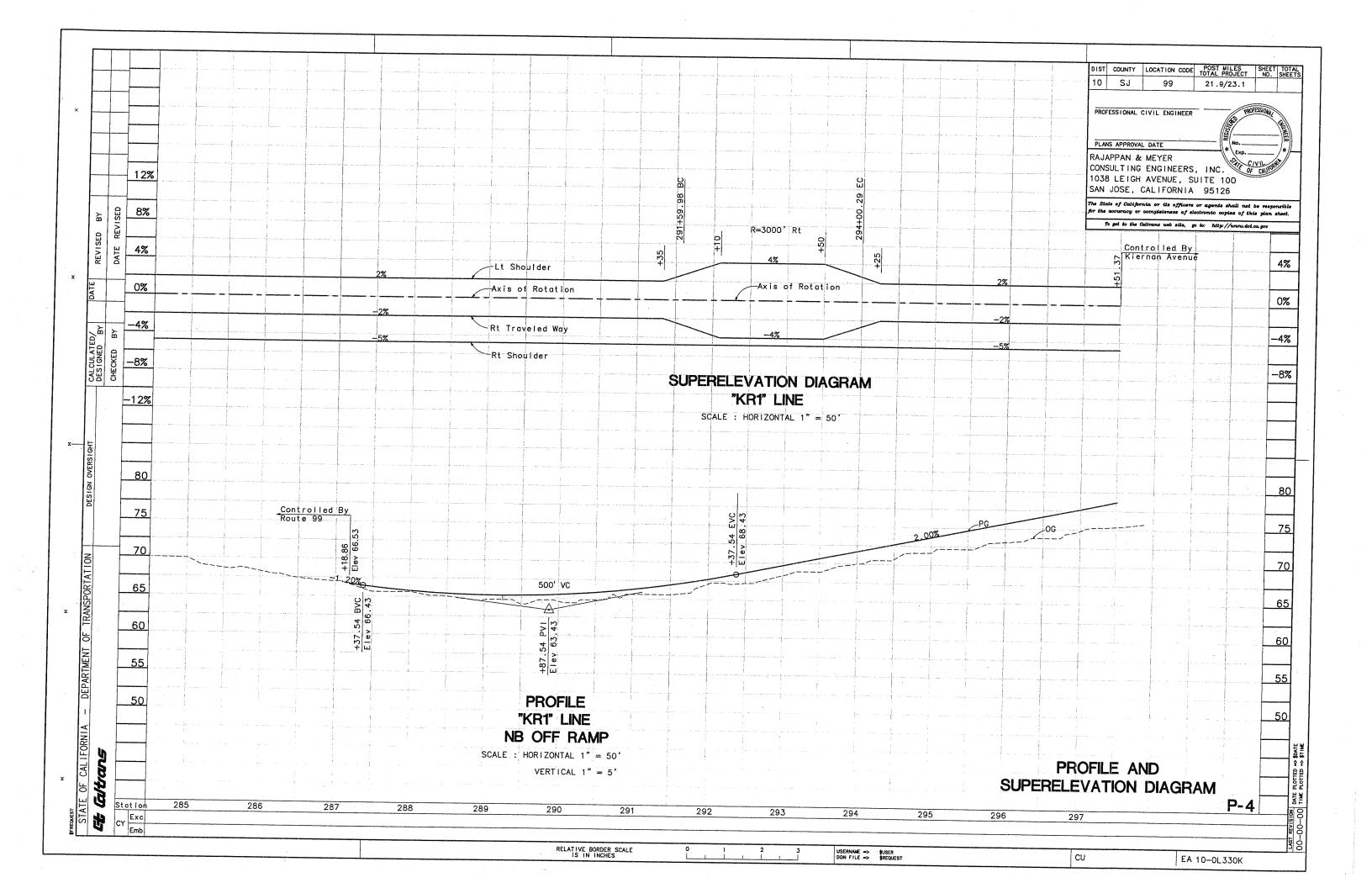


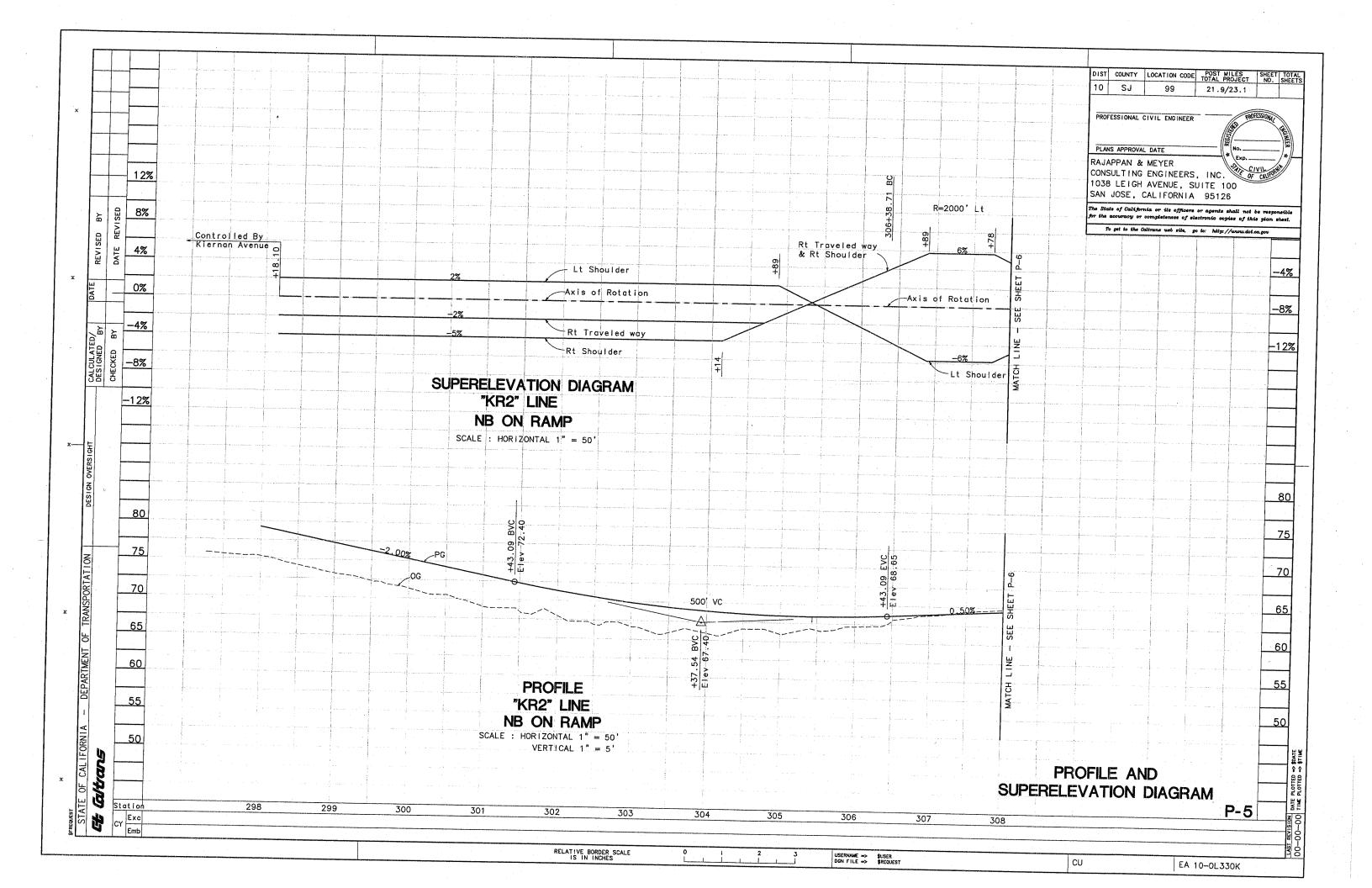


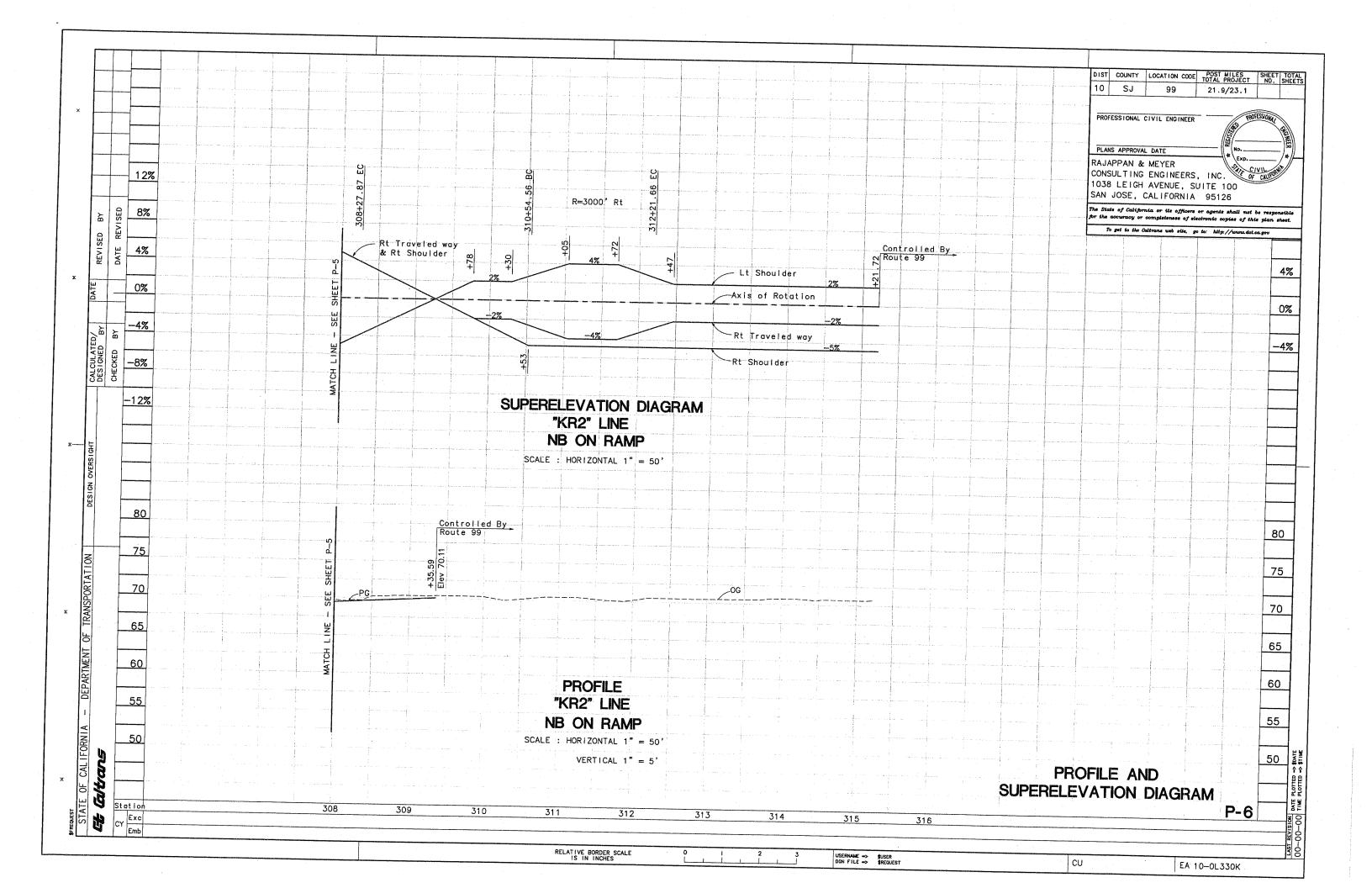


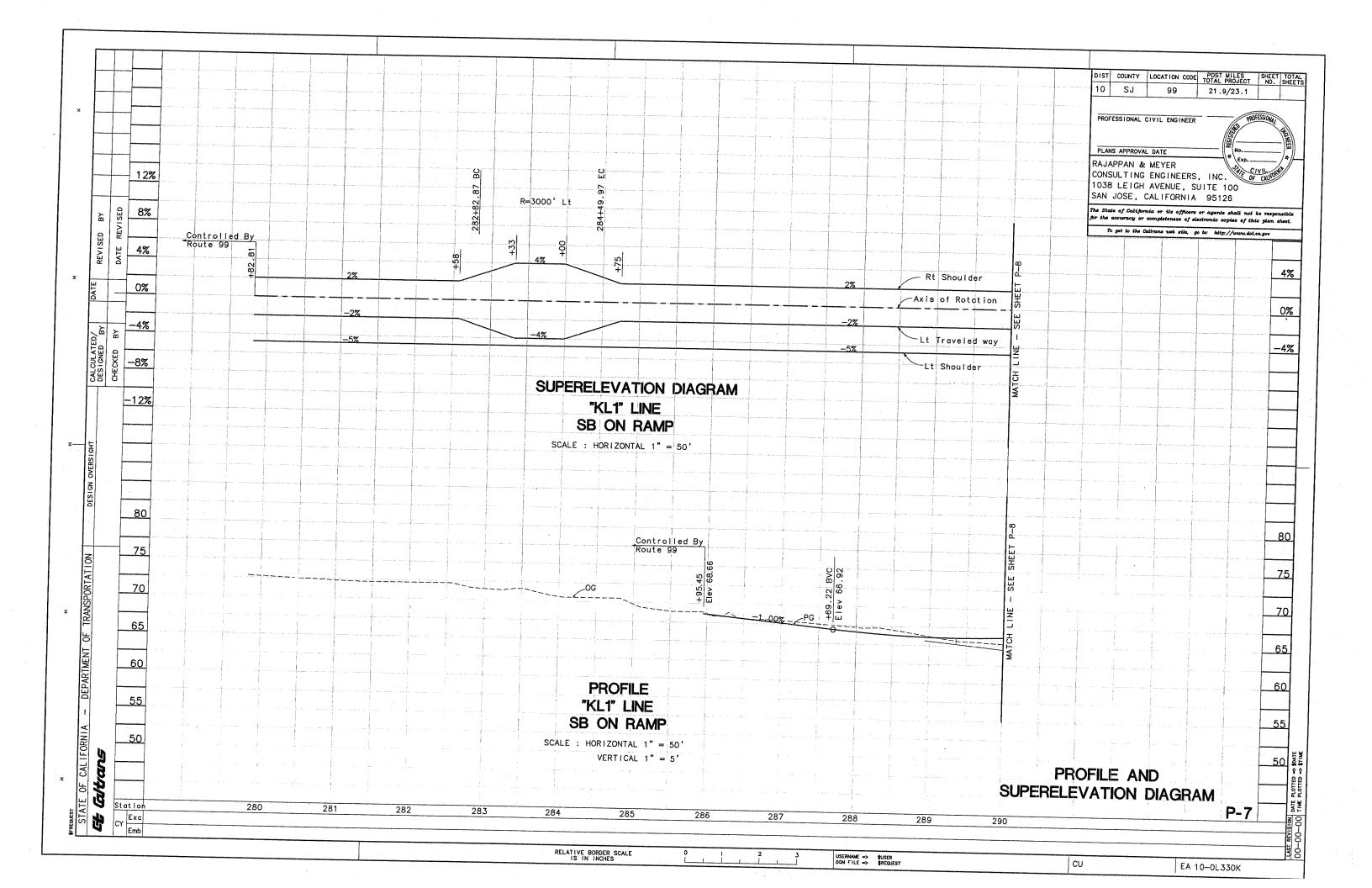


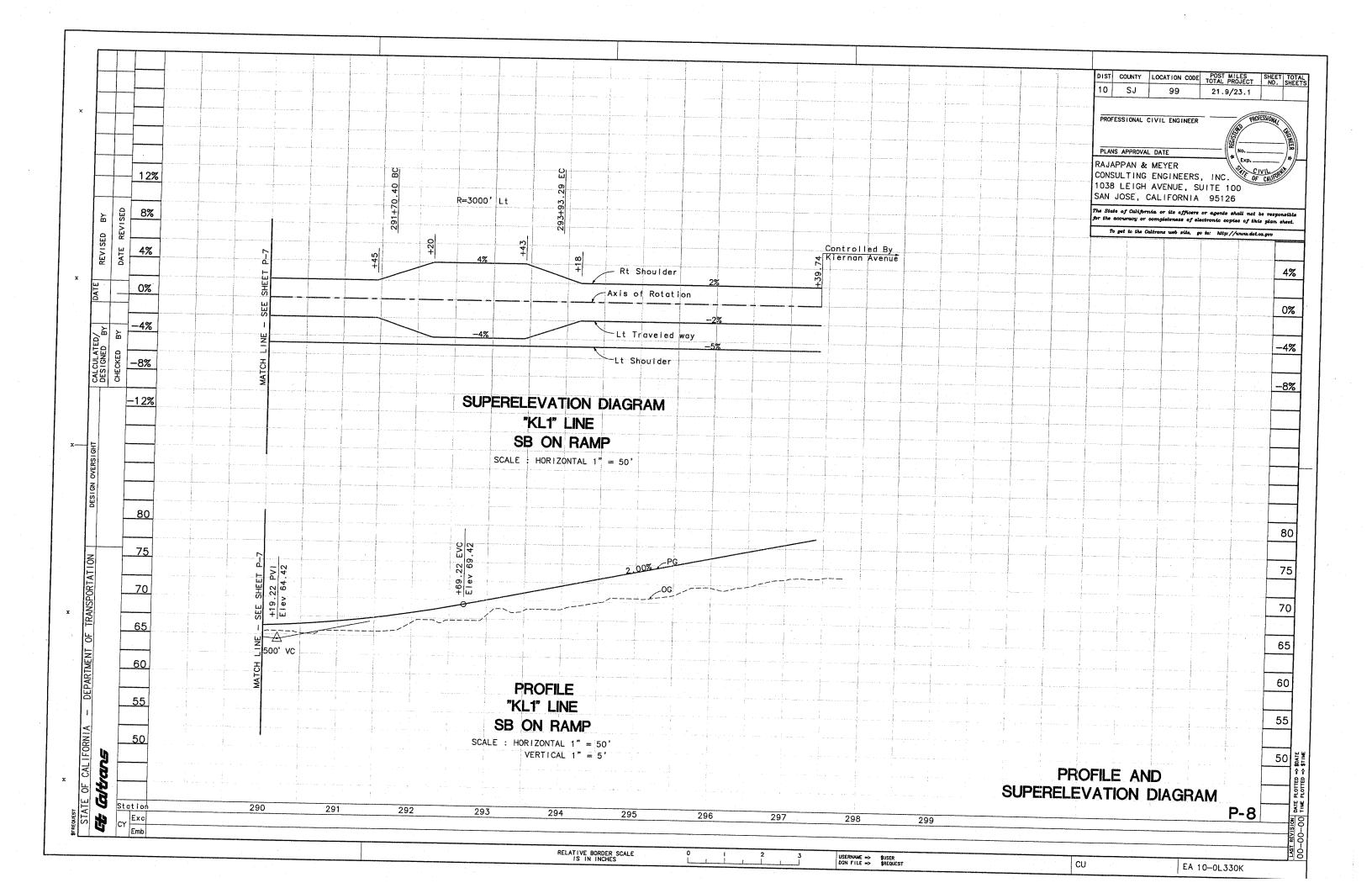


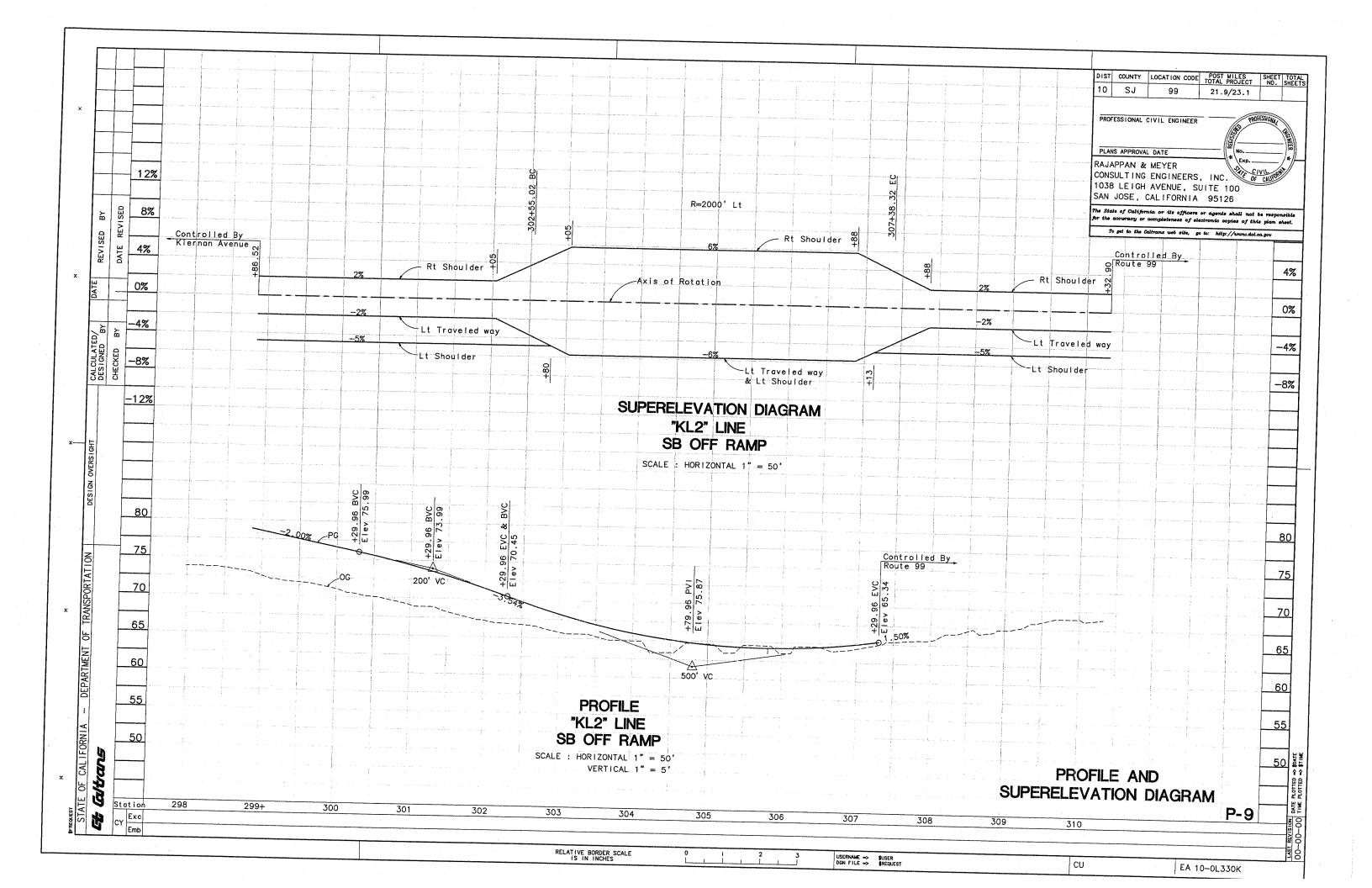




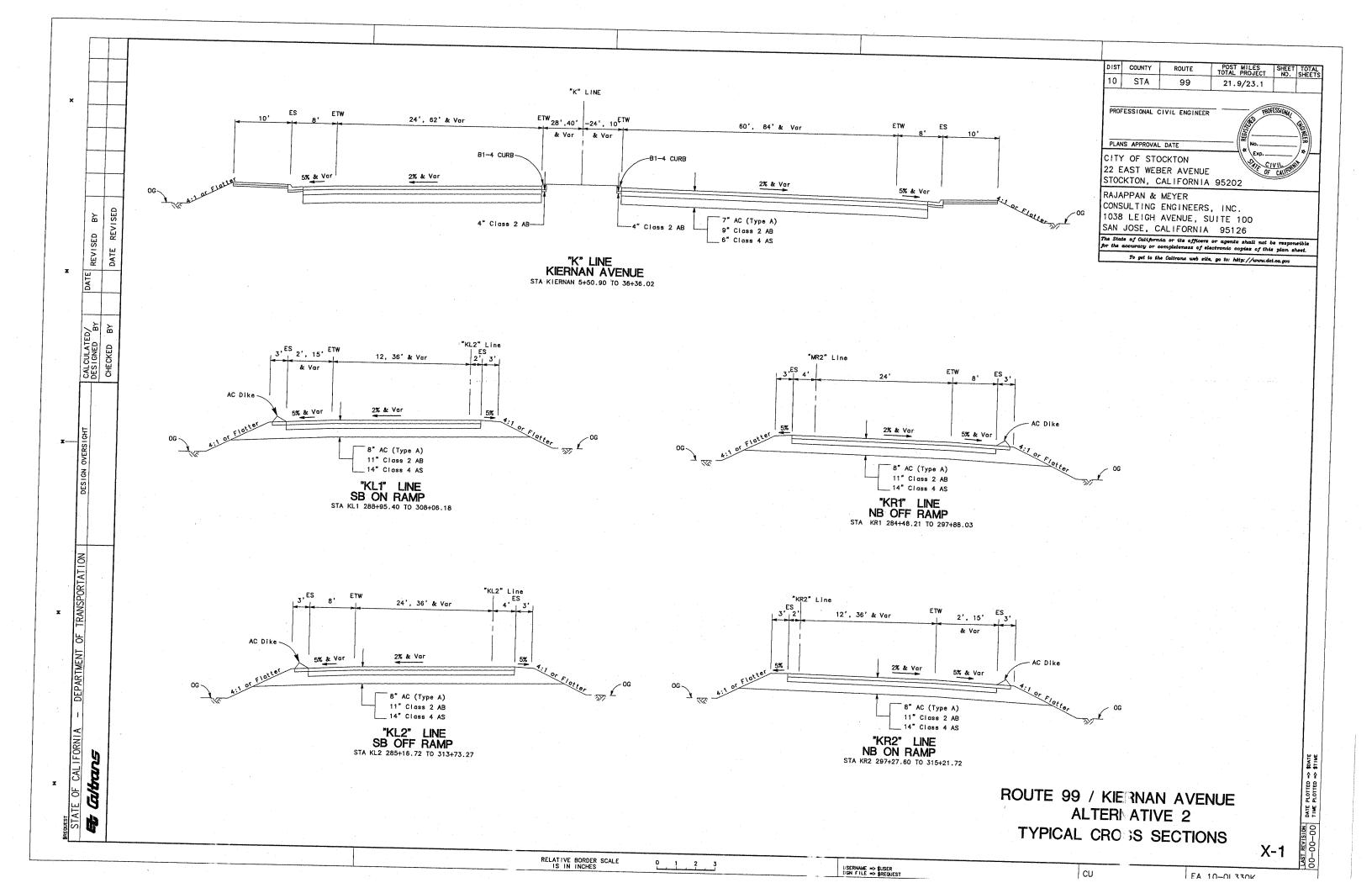


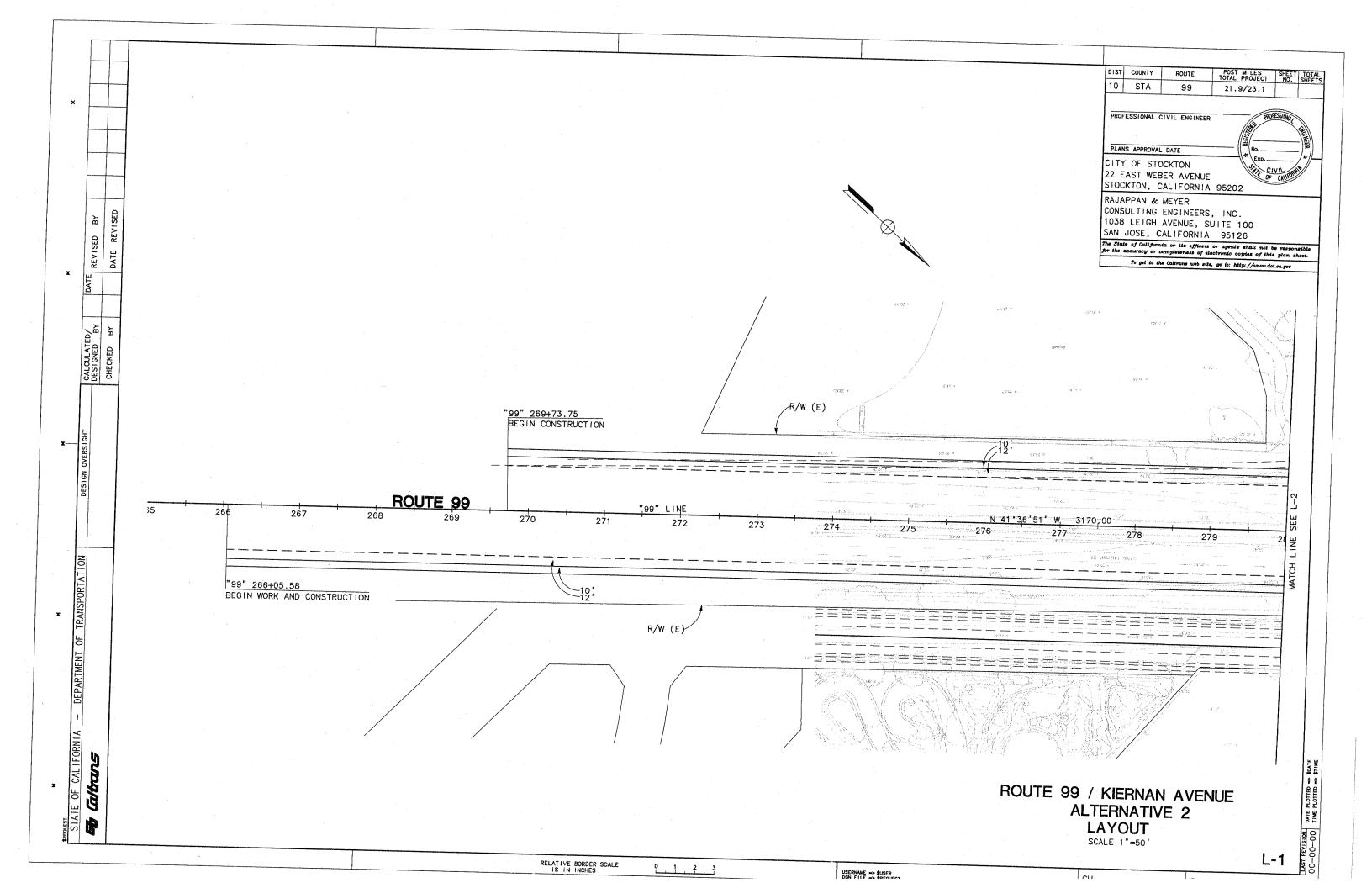


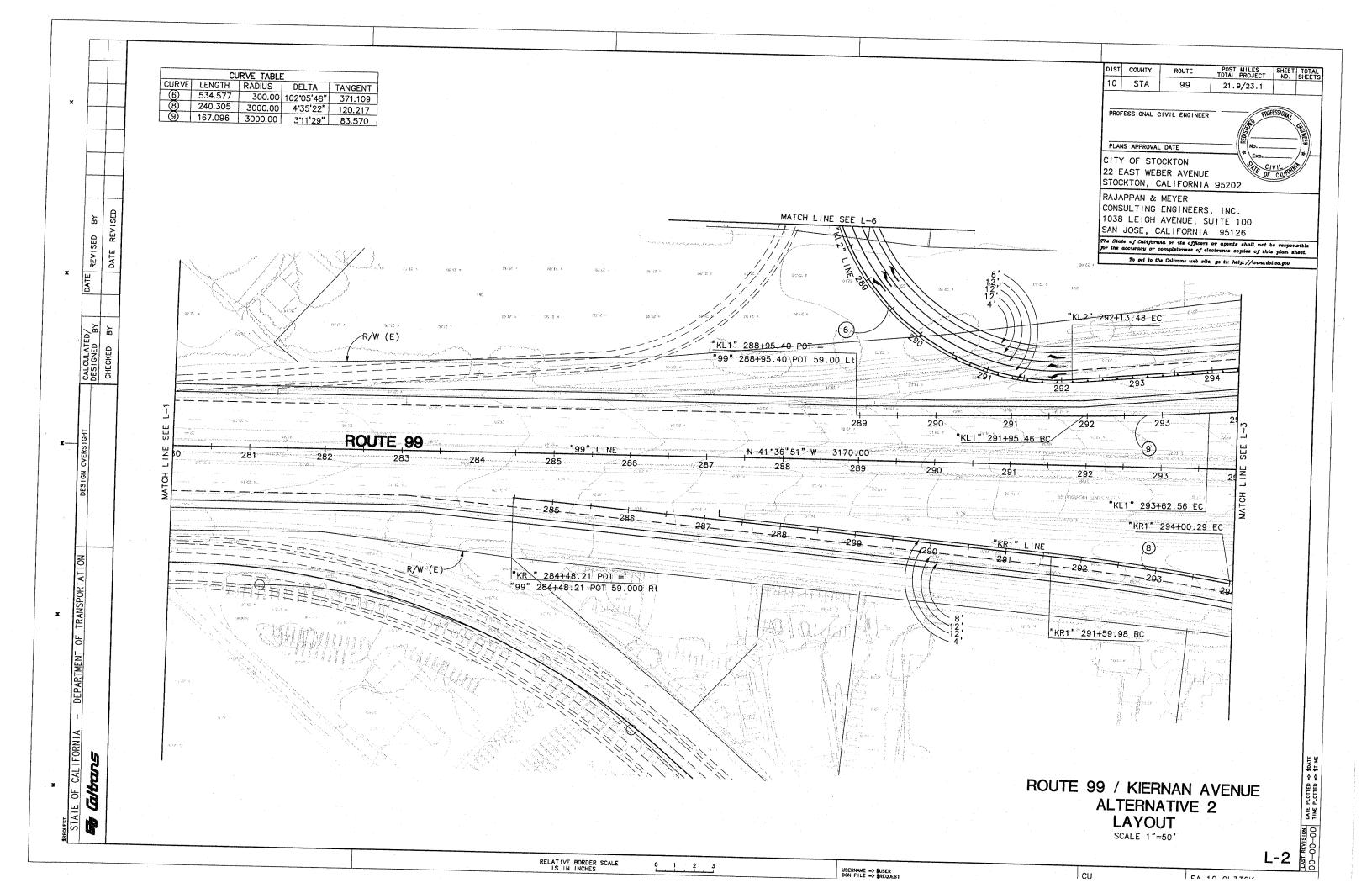


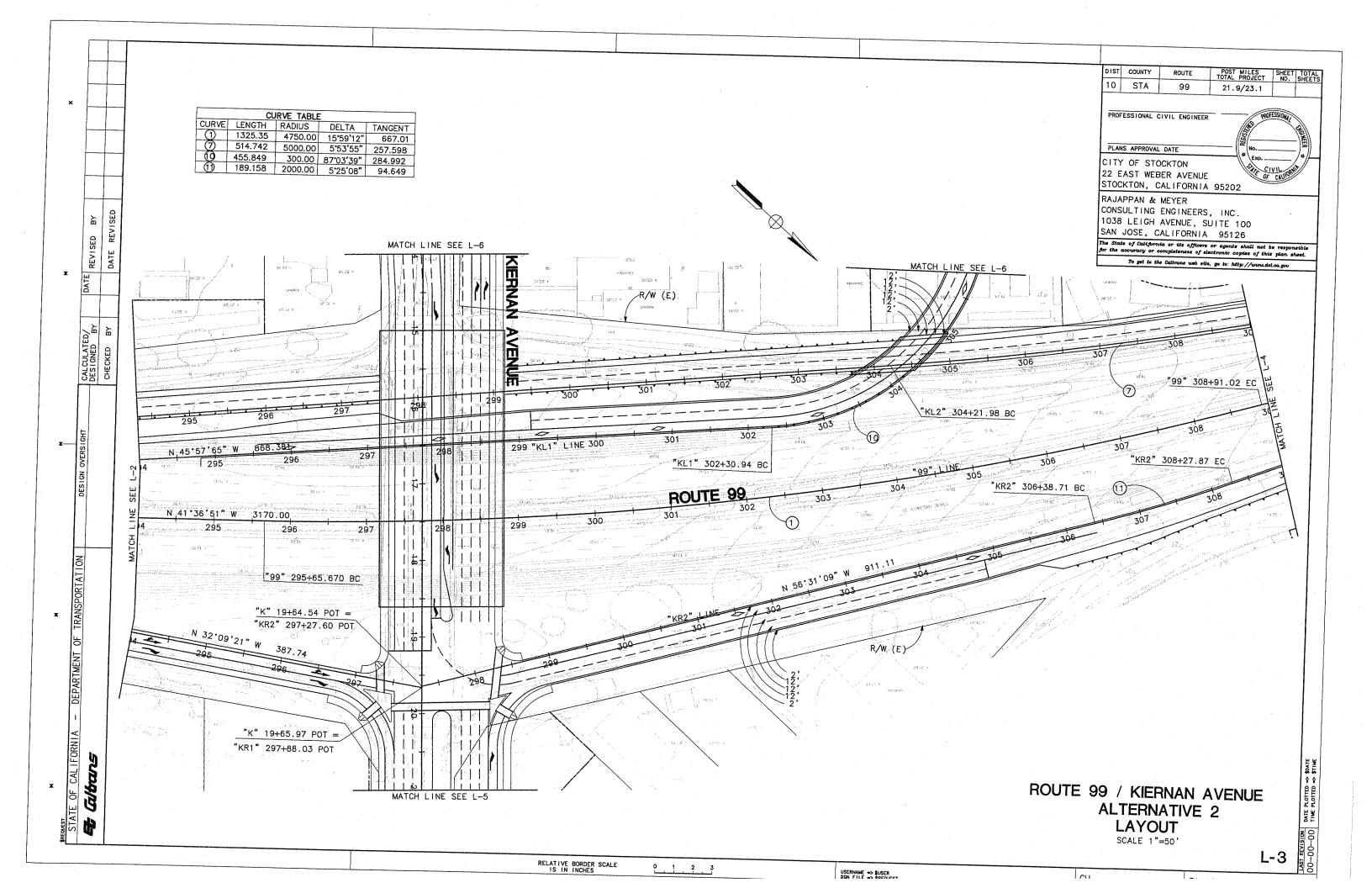


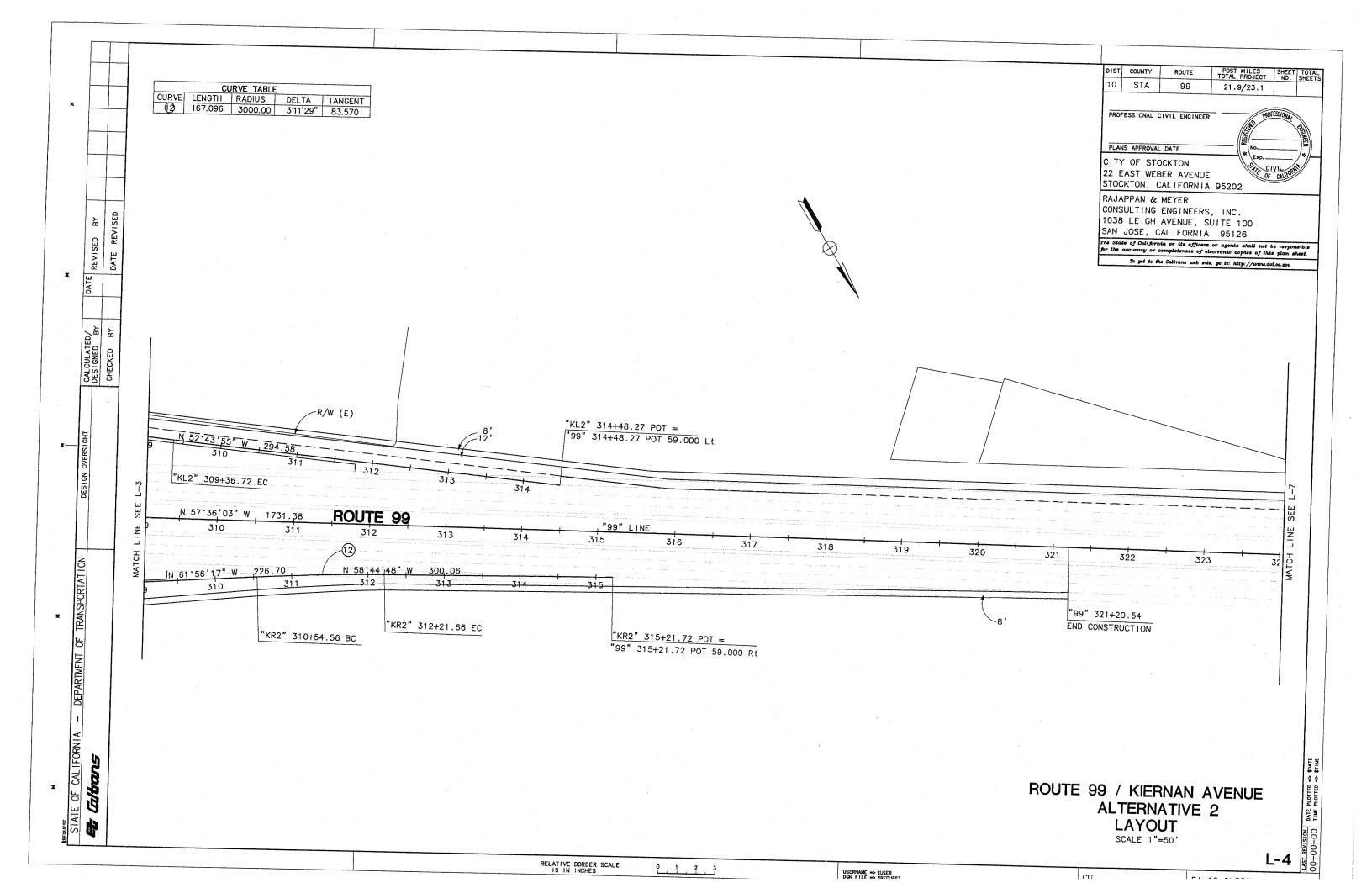
ATTACHMENT C GEOMETRIC APPROVAL DRAWINGS (ALTERNATIVE 2)

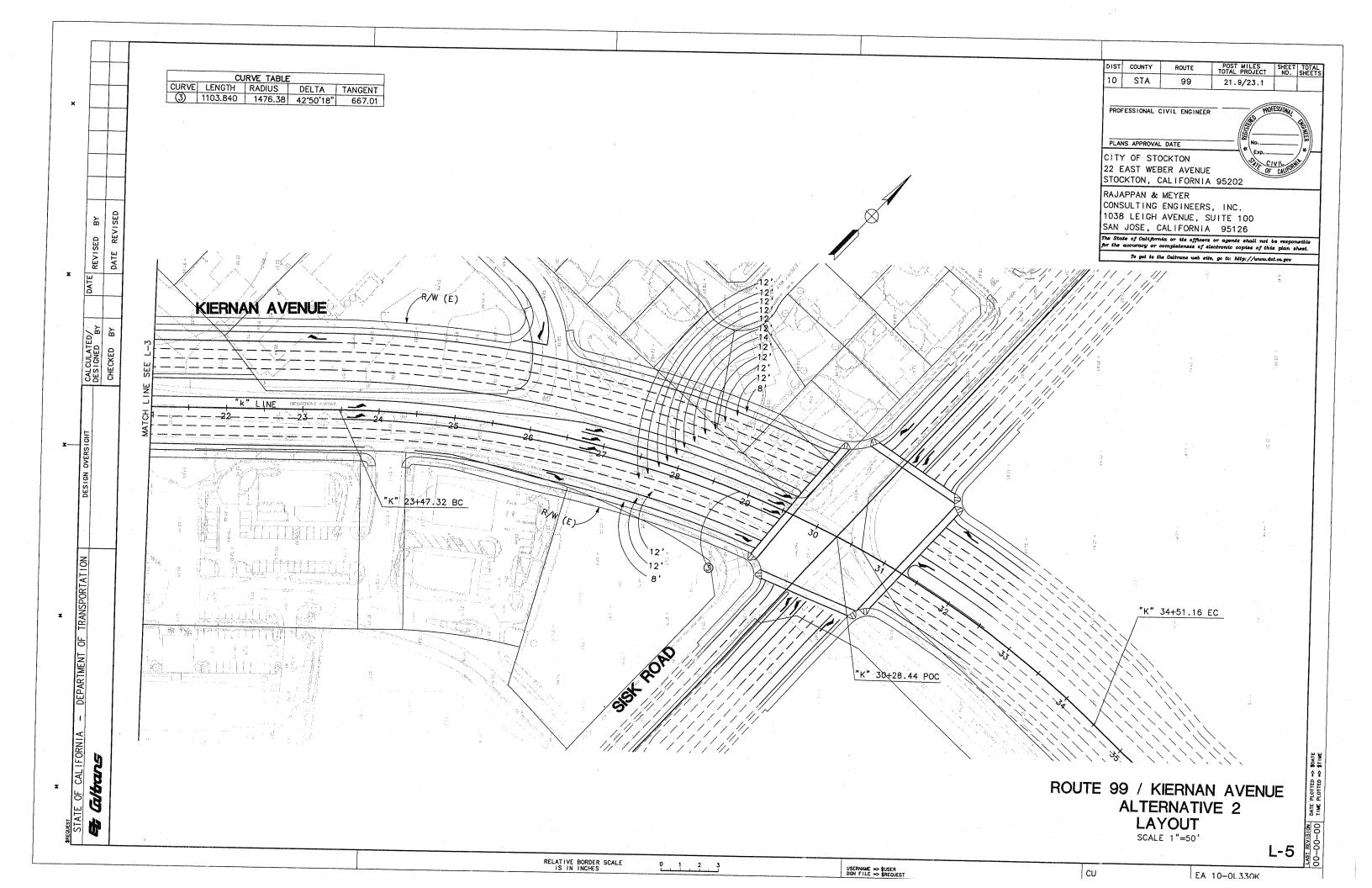


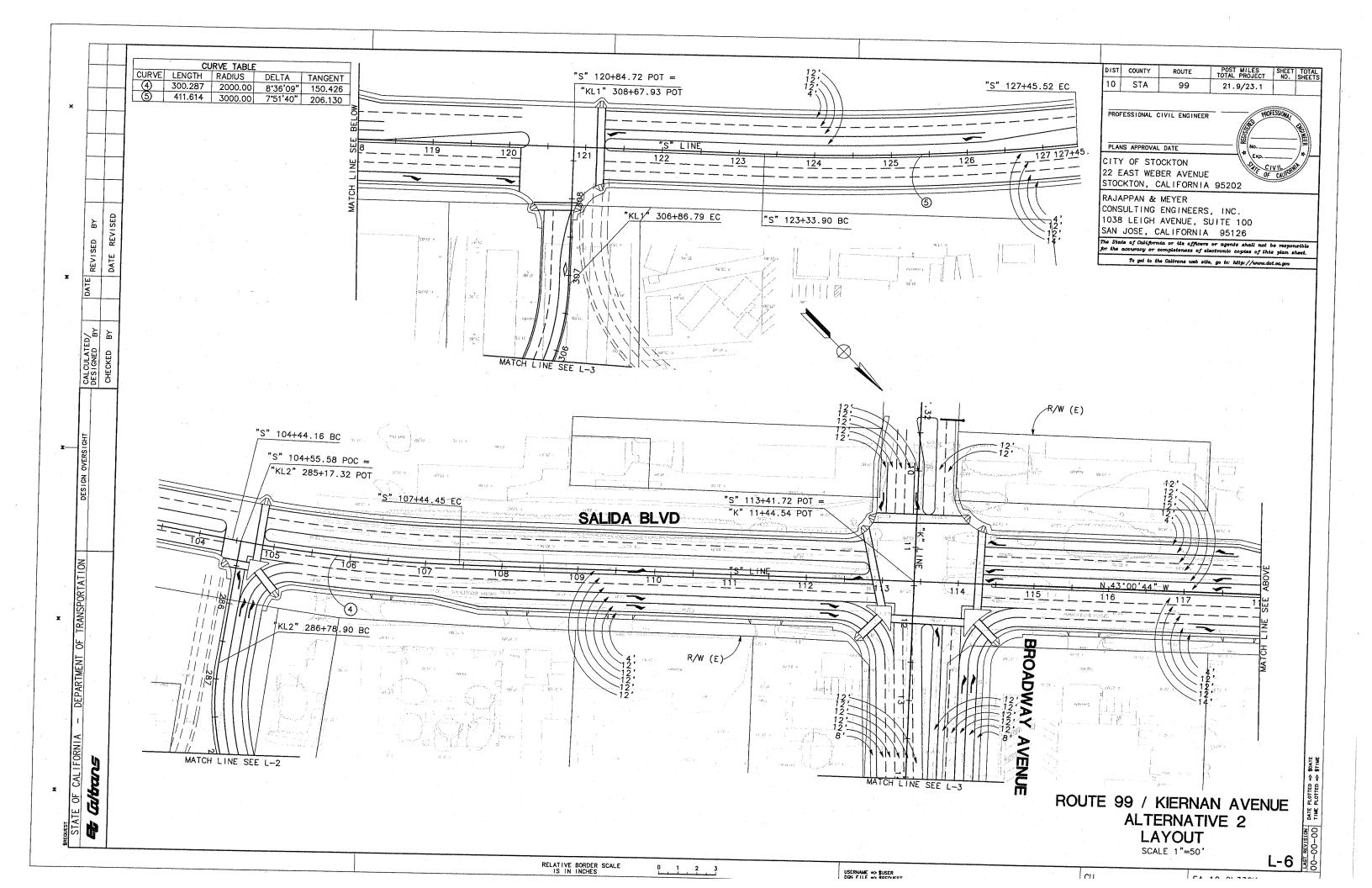


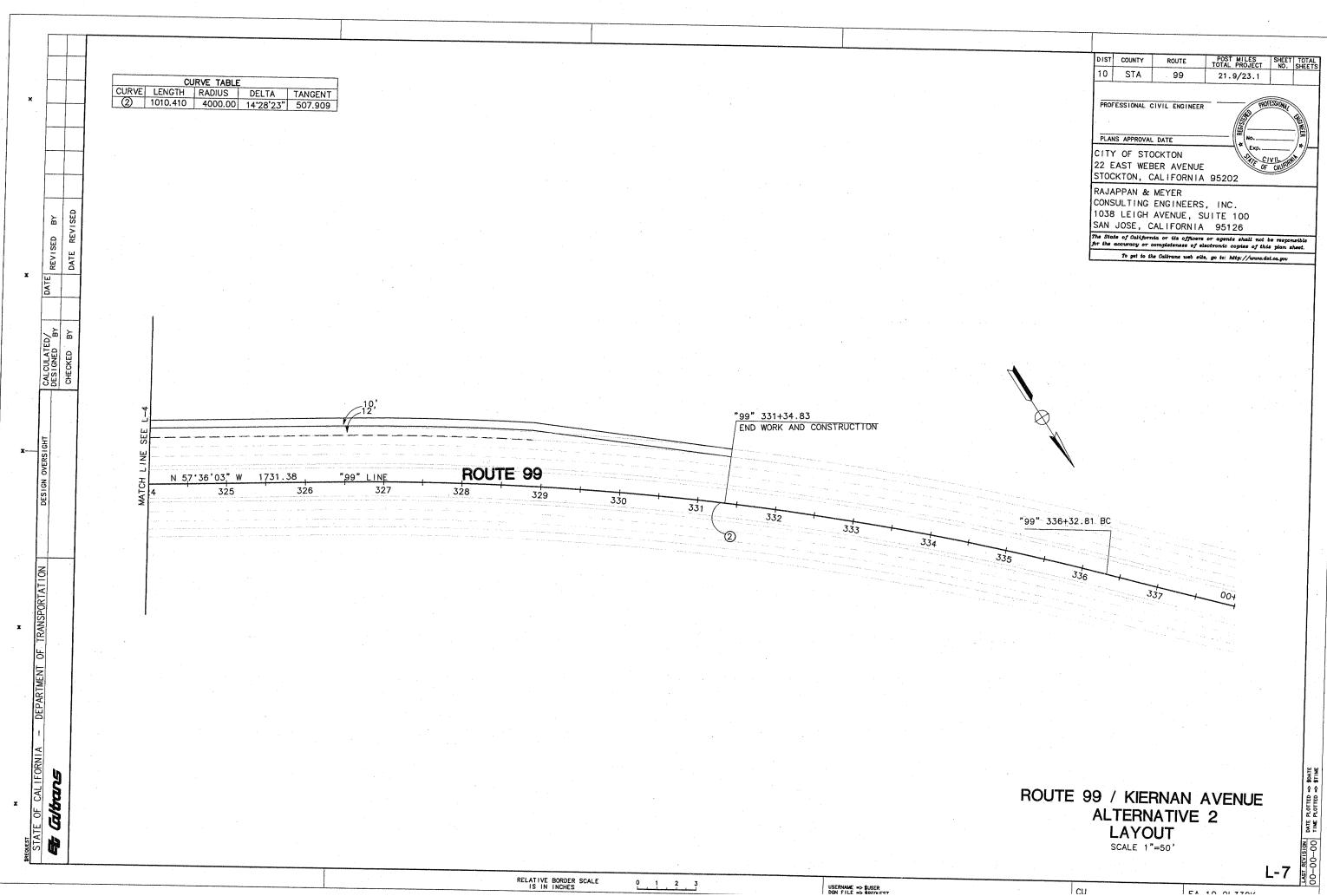




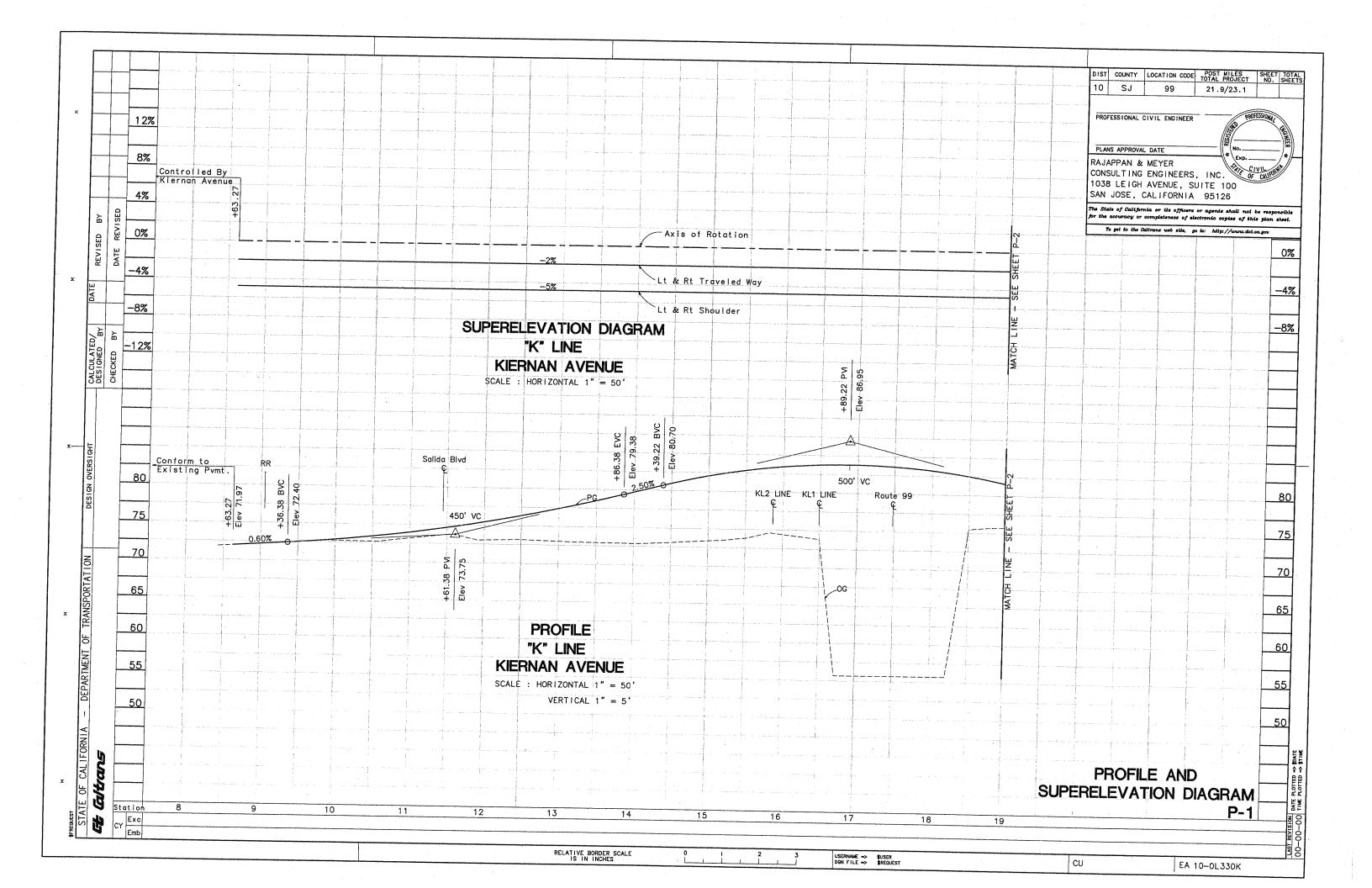


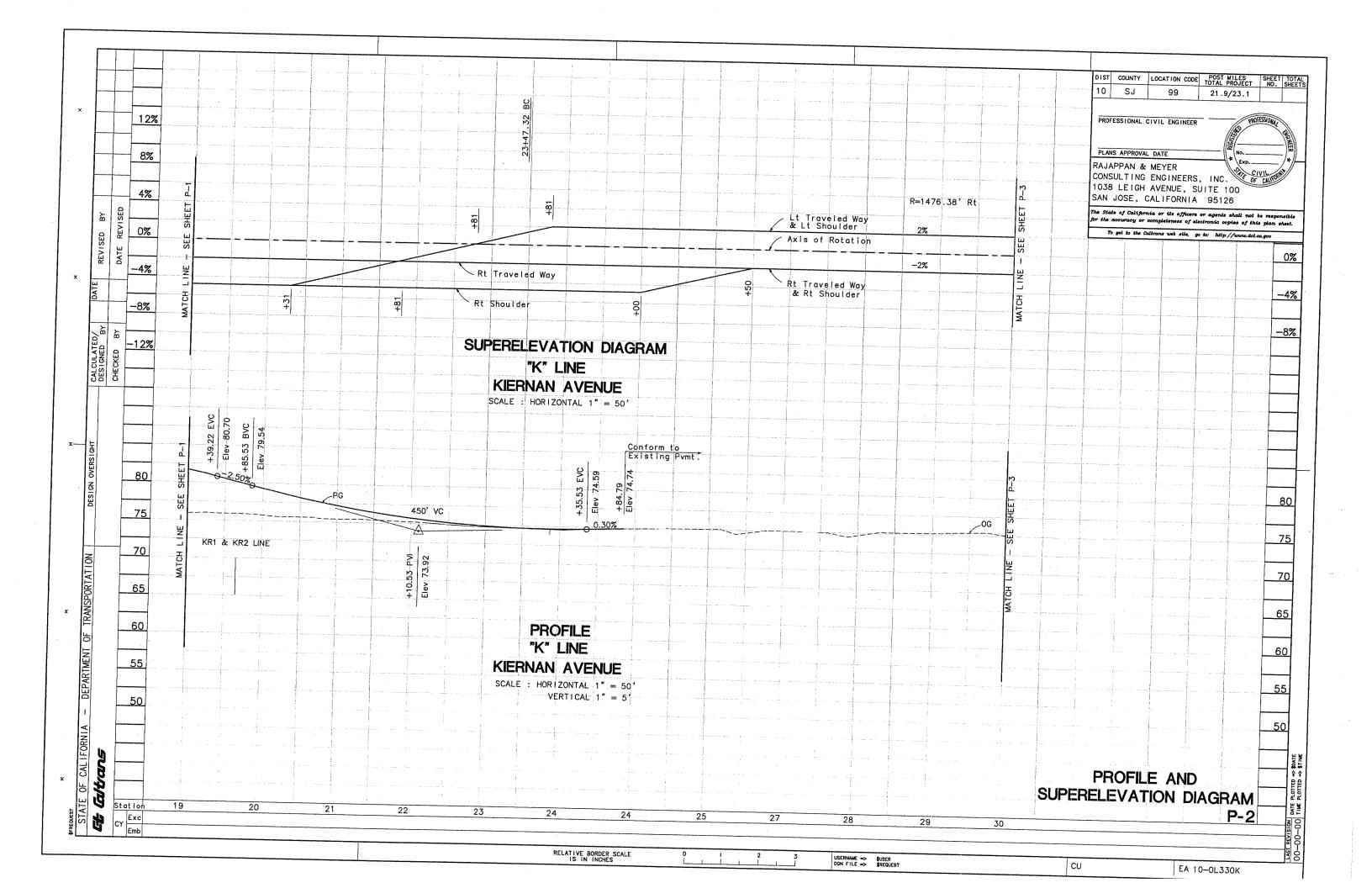


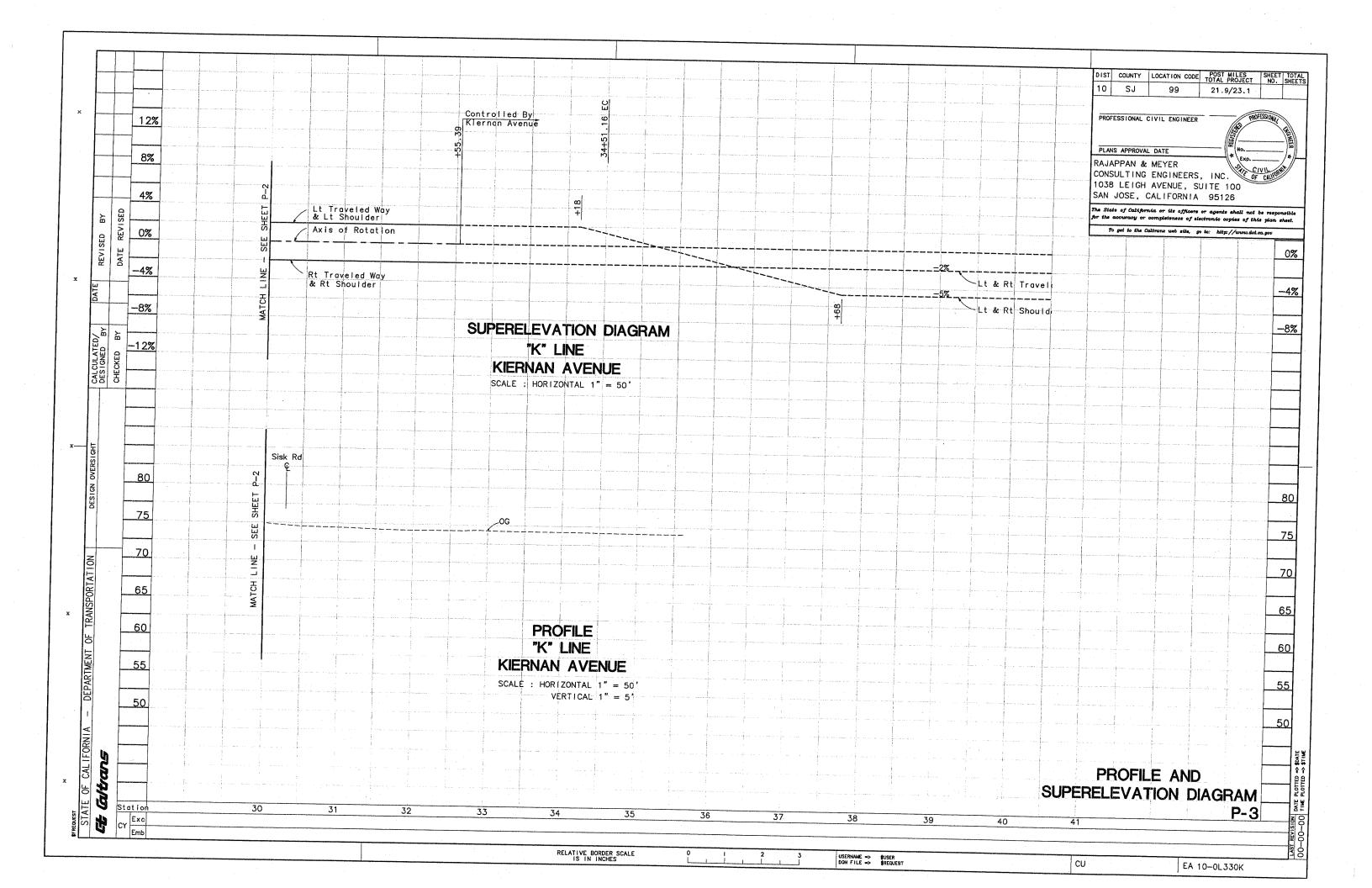


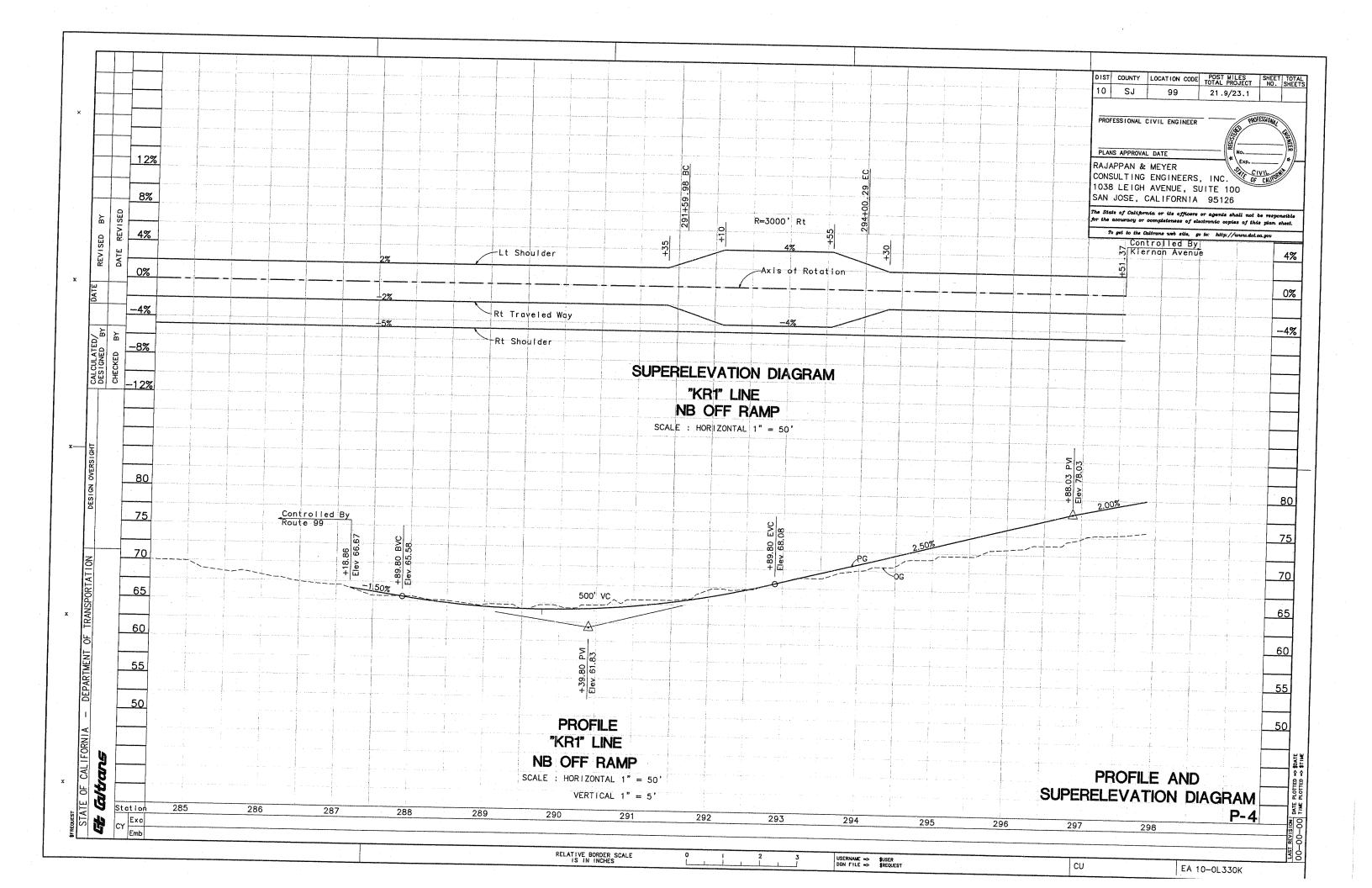


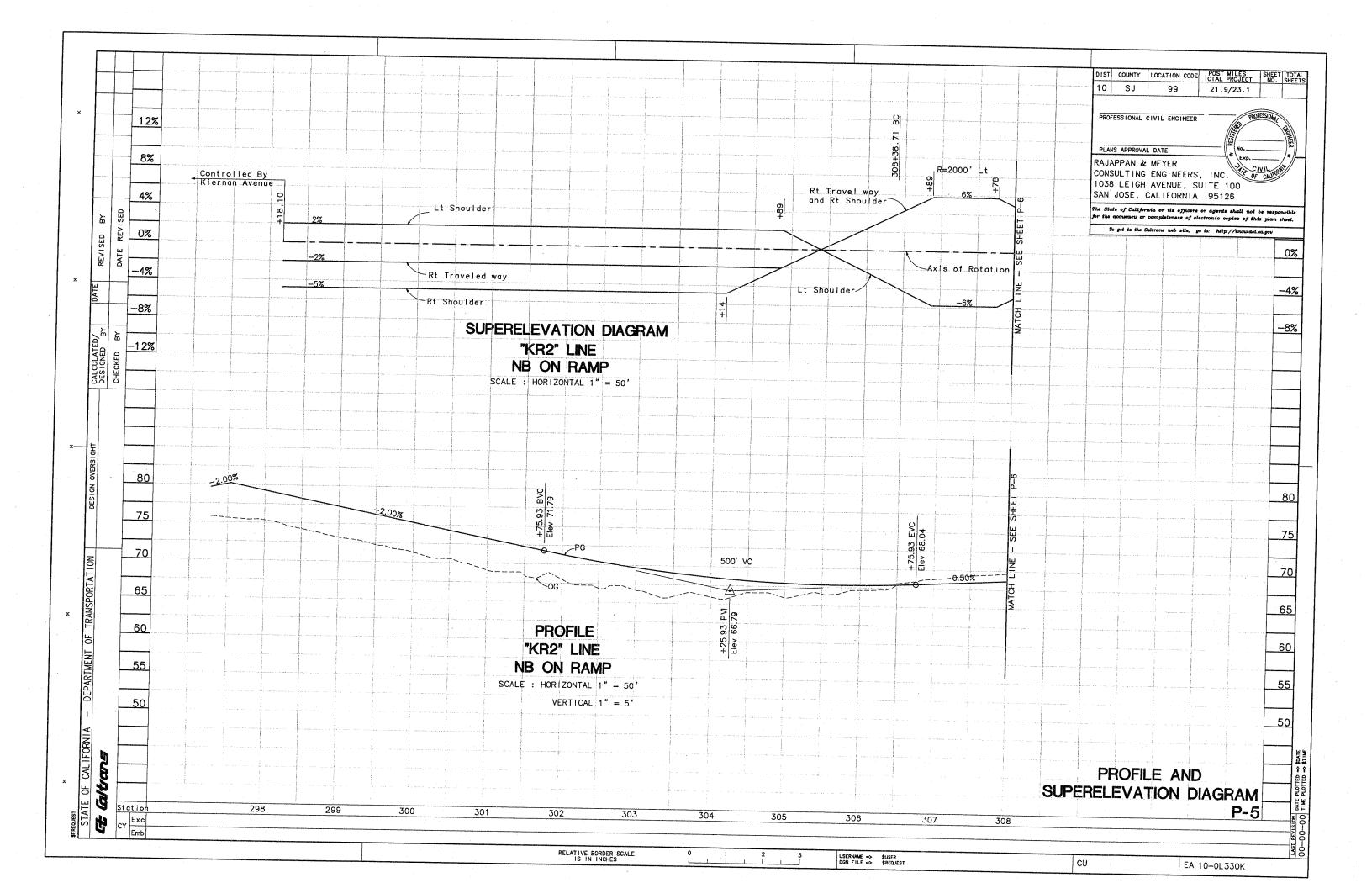
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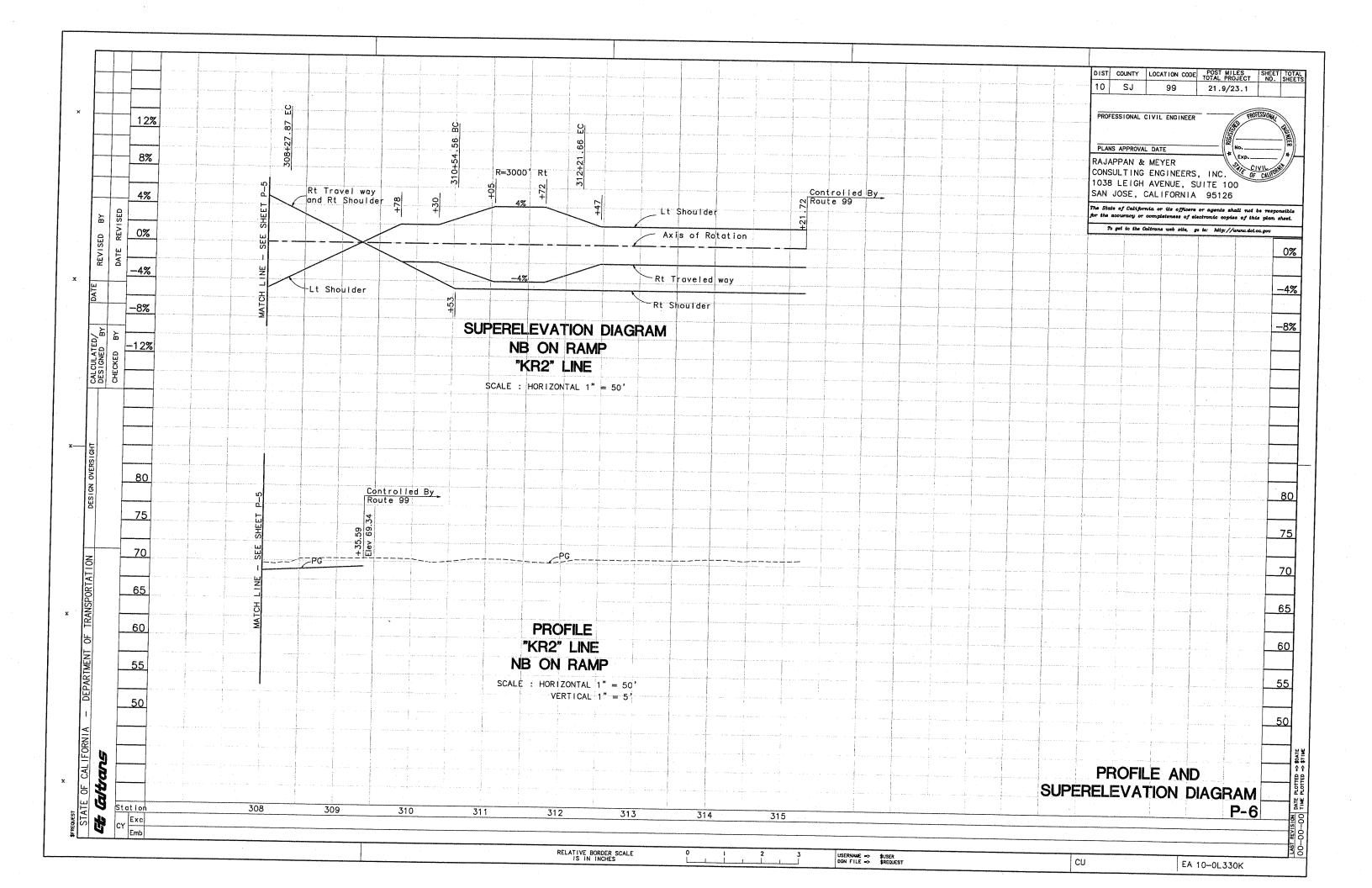


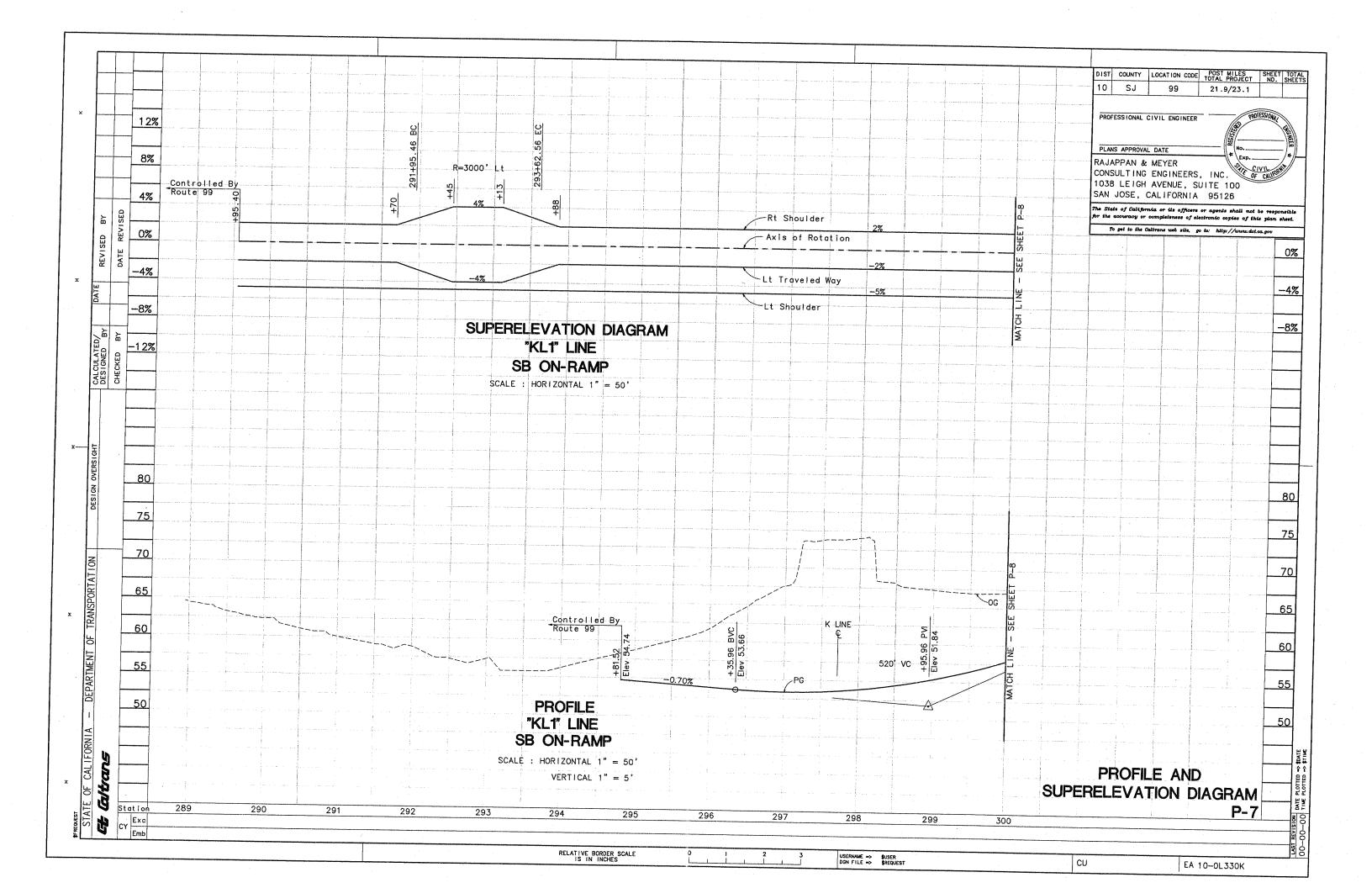


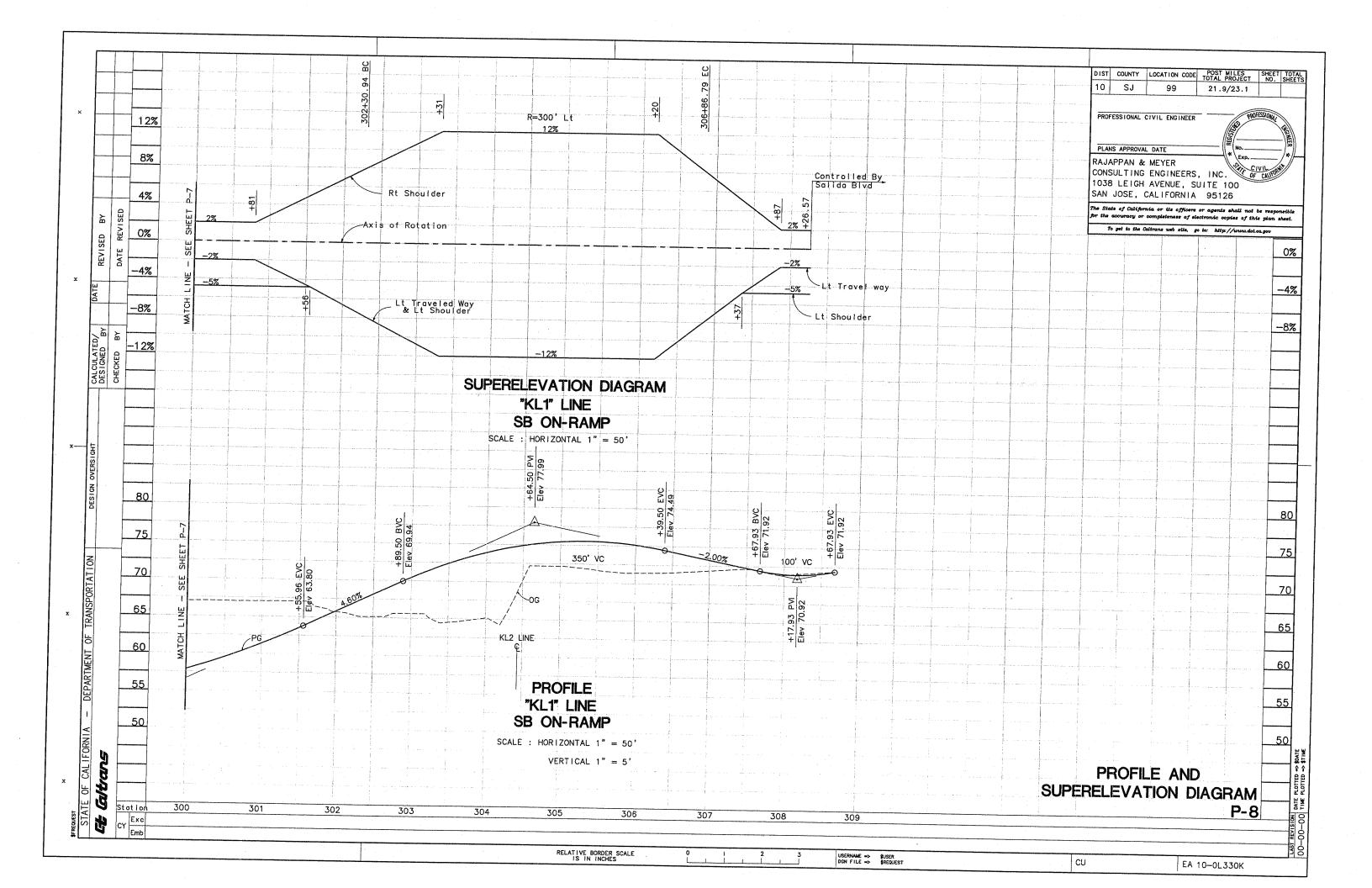


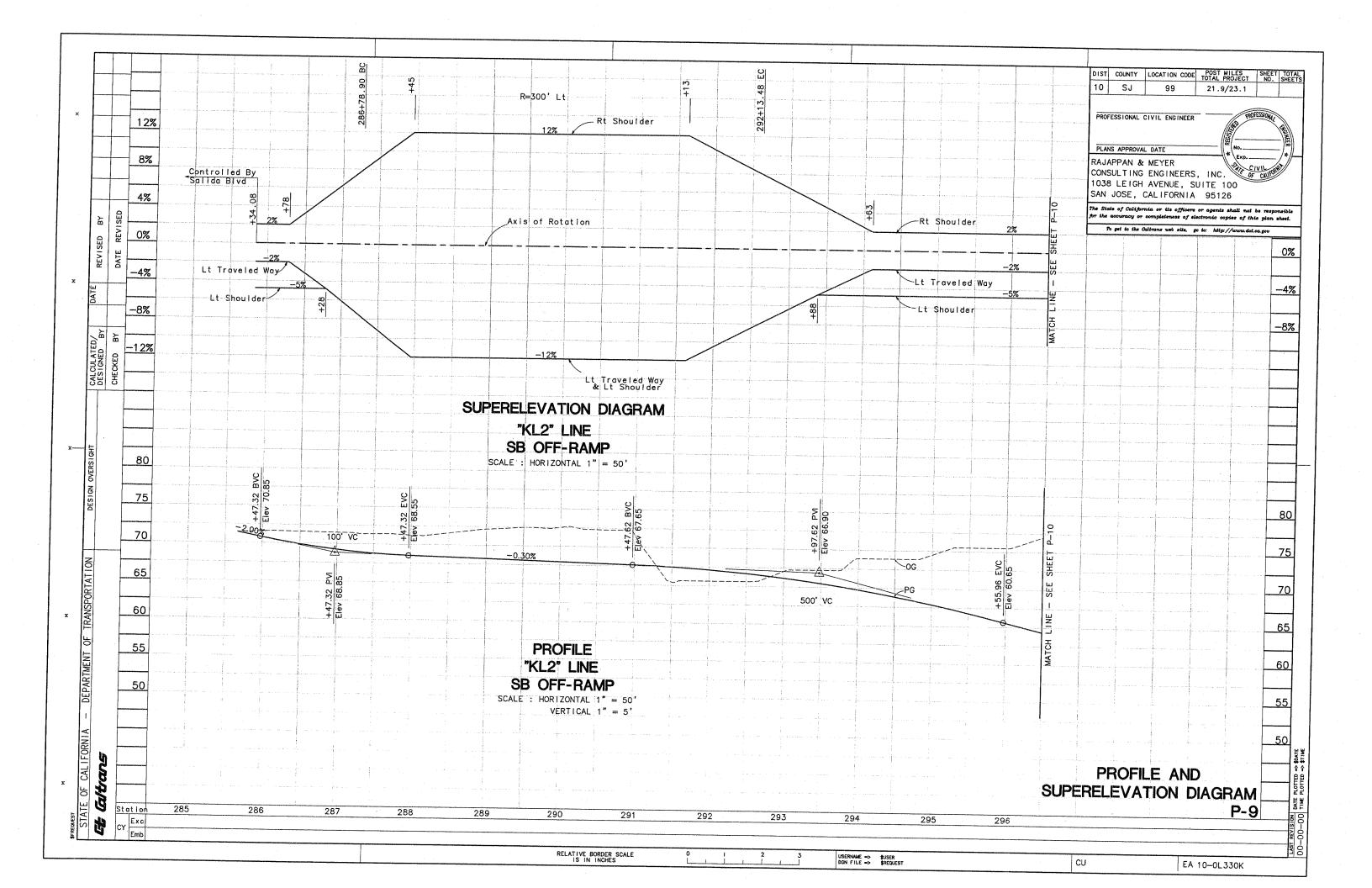


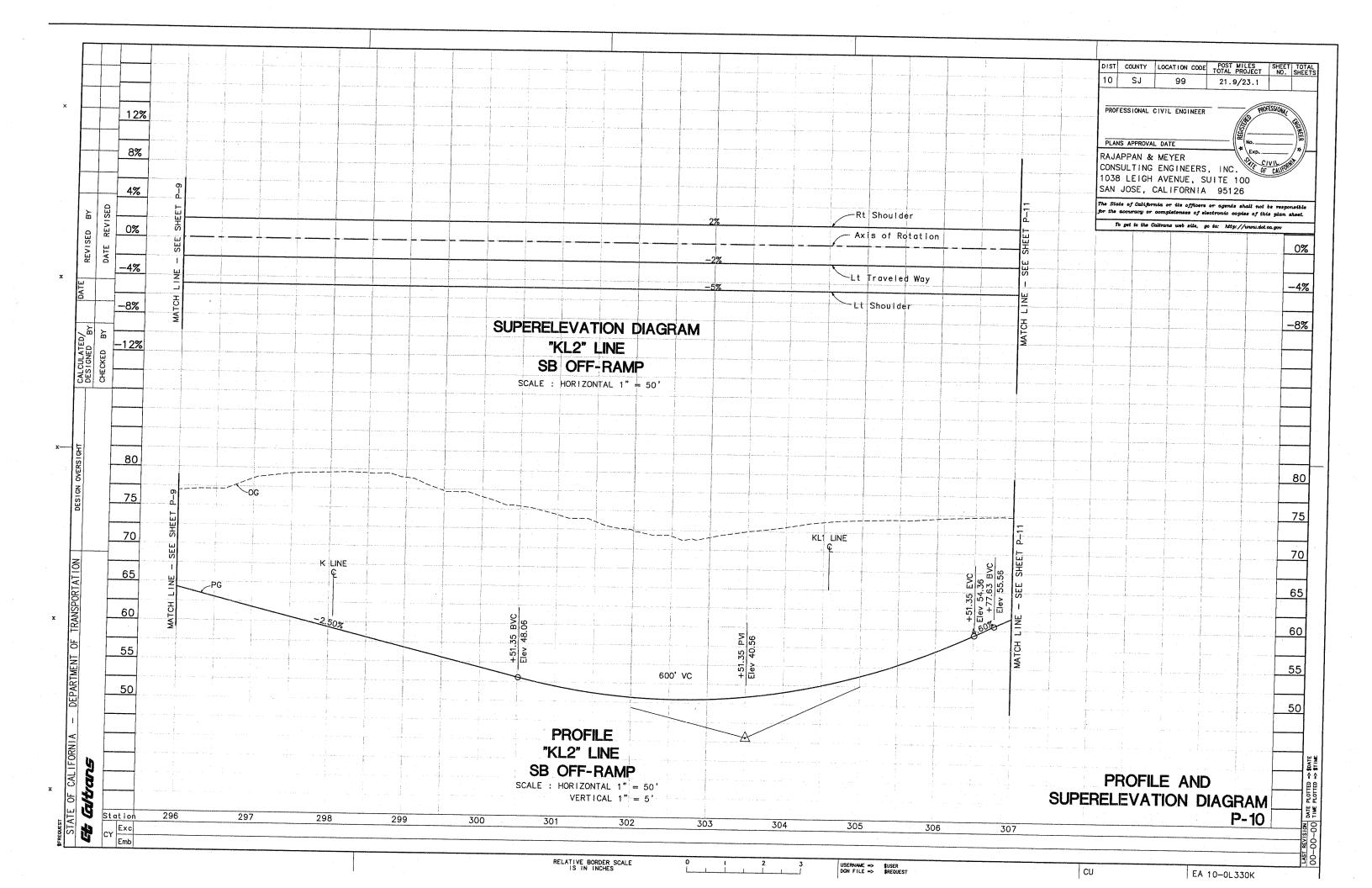


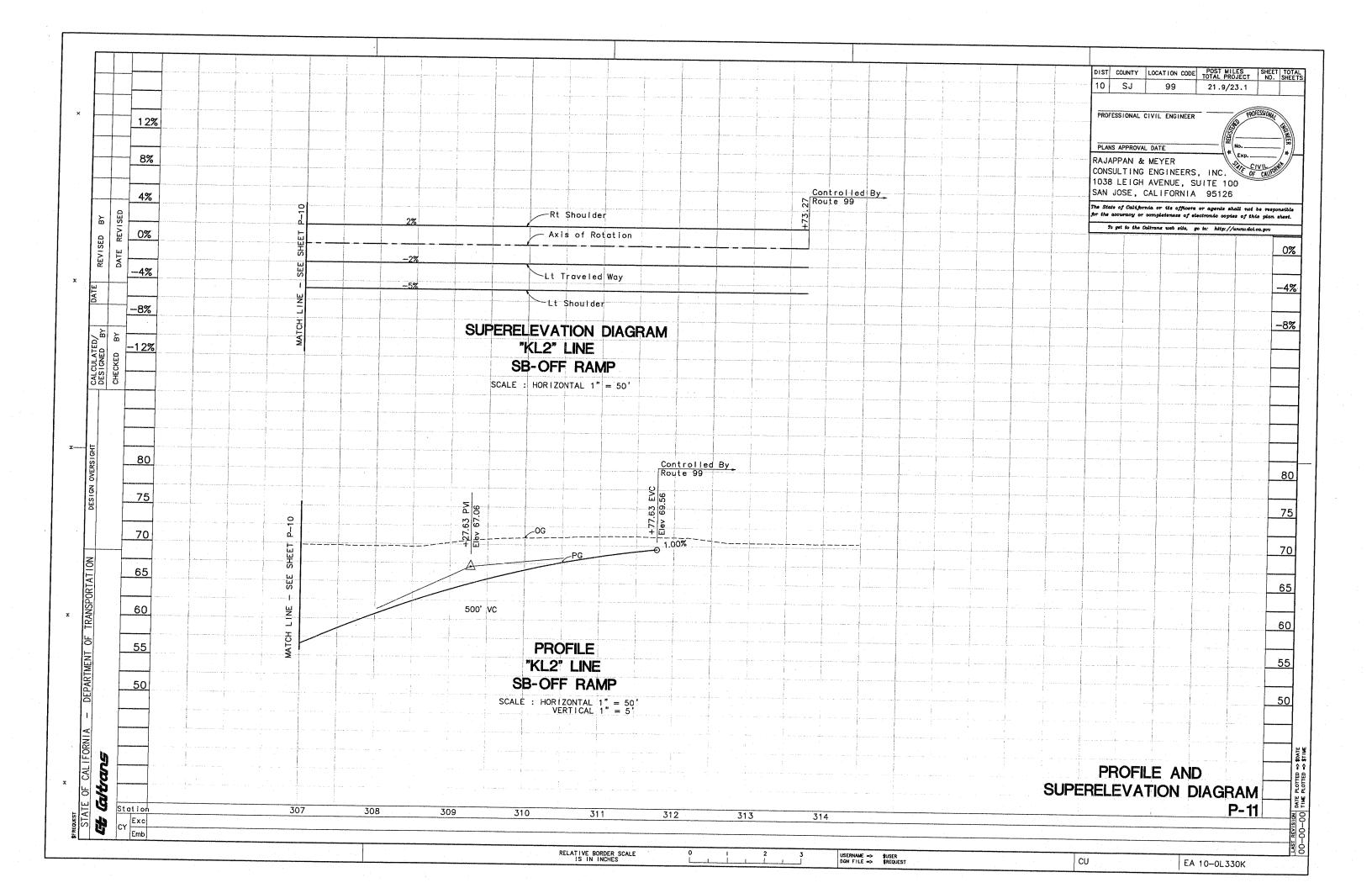












ATTACHMENT D
COST ESTIMATES



ROUTE 99/ROUTE 219 (KIERNAN AVENUE) PROJECT PRELIMINARY PROJECT COST ESTIMATE SUMMARY

		PM:	0-STA-99 21,9/23,1 0-0L330K	
Project Description: Ro	ute 99/Klernan Avenue Interch	ange Project		
Limits: In §	Stanislaus County	in the second		
Proposed Improvement: Wic (Scope) Alto	len the Existing Compact Diar ernative 1	nond Interchange		
Alternative: Mod	lification to the existing intercha	nge at Route 219 (Kiern	ian Avenue) o	n Route 99
	SUMMARY OF PROJECT COST TOTAL ROADWAY ITEMS TOTAL STRUCTURE ITEMS OTAL CONSTRUCTION COSTS TOTAL RIGHT OF WAY ITEMS ECT CAPITAL OUTLAY COSTS	\$ \$29,100,000 \$ \$7,000,000 \$ \$36,100,000 \$ \$9,100,000		
Reviewed by District Progra	ım Manager <u>Chili</u>	L. Alberia		
Approved by Project Manager	(Signature)	(Signature)	Date	5/5/09
Phone No c	±280 · 277 ≥			

Prepared by: RAJAPPAN & MEYER CONSULTING ENGINEERS

Sheet: 1 of 6

<u>DIST - CO - RTE</u> 10-STA-99

PM: 21.9/23.1 10-0L330K EA: I. ROADWAY ITEMS Quantity **Unit** Unit Price Item Cost Section Cost Section 1 - Earthwork Roadway Excavation 123,003 CY \$28.00 \$3,444,084 Imported Borrow 57,535 CY \$35.00 \$2,013,725 Clearing & Grubbing LS Lump Sum \$200,000.00 \$200,000 Develop Water Supply LS Lump Sum \$40,000.00 \$40,000 Project Schedule LS Lump Sum \$20,000.00 \$20,000 Subtotal Earthwork \$5,717,809.00 Section 2 - Pavement Structural Section * PCC Pavement (Depth) PCC Pavement (Depth) Asphalt Concrete 23,515 TONN \$120.00 \$2,821,800 Lean Concrete Base Cement-Treated Base Aggregate Base 18,222 CY \$58.00 \$1,056,876 Treated Permeable Base Aggregate Subbase 19,295 CY \$30.00 \$578,850 Pavement Reinforcing Fabric Edge Drains Pavement Concrete Curb & Gutter 498 CY \$500.00 \$249,000 Sidewalk 378 CY \$500.00 \$189,000 Subtotal Pavement Structural Section \$4,895,526.00 Section 3 - Drainage Large Drainage Facilities Storm Drains Lump Sum LS \$2,500,000.00 \$2,500,000 Construction BMP's Lump Sum LS \$350,000.00 \$350,000 Construction Site Management LS Lump Sum \$450,000.00 \$450,000 Treatment BMP's Lump Sum LS \$650,000.00 \$650,000 Sampling and Analysis LS Lump Sum \$15,000.00 \$15,000 **Detention Basin** Subtotal Drainage \$3,965,000.00

DIST - CO - RTE

	10-STA-99	
PM:	21.9/23.1	
EA:	10-0L330K	

	Ougatitu	1 lm14	1 Unit Dalas	ltana Oaat	0
Section 4 - Specialty Items	Quantity	<u>Unit</u>	<u>Unit Price</u>	Item Cost	Section Cost
Retaining Walls	1,120	SF	\$84.00	<u></u> የርፈ ርርር	
Noise Barriers	Lump Sum	LS	\$570,000.00	\$94,080	
Barriers and Guardails	320	LF	\$150.00	\$570,000 \$48,000	i.
Equipment/Animal Passes	320		\$100.00	 	
Highway Planting	Lump Sum	LS	\$300,000.00	\$200 000	
Replacement Planting	Lump Sum	LO	\$300,000.00	\$300,000	
Irrigation Modification	Lump Cum	LS	£100 000 00	<u> </u>	
•	Lump Sum	<u>LS</u>	\$100,000.00	\$100,000	
Relocate Private Irrigation Facilities					
Erosion Control	Lunan Cuna		<u> </u>	<u> </u>	
•	Lump Sum	<u>LS</u>	\$800,000.00	\$800,000	
Slope Protection Water Pollution Control	Loren Com		<u> </u>	A000 000	
	Lump Sum	LS	\$300,000.00	\$300,000	
Hazardous Waste Mitigation			470 000 00	A 770 000	
Work	Lump Sum	LS	\$70,000.00	\$70,000	
Environmental Mitigation	Lump Sum	_LS_	\$120,000.00	\$120,000	
Resident Engineer Office Space	Lump Sum	<u>LS</u>	\$50,000.00	\$50,000	

			<u>Sı</u>	ubtotal Specialty Items	\$2,452,080.00
Section 5 - Traffic Items			****		
Lighting and Sign Illumination	Lump Sum	<u>LS</u>	\$200,000.00	\$200,000	
Traffic Delineation Items	75,157	LF	\$3.00	\$225,471	
Modify Traffic Signal	<u>4</u> 6	EA EA	\$200,000.00	\$800,000	
Overhead Sign Structures Roadside Signs	Lump Sum	LS	\$100,000.00 \$50,000.00	\$600,000 \$50,000	
Traffic Control Systems	Lump Sum	LS	\$250,000.00	\$250,000	
Transportation Mgmt Plan	Lump Sum	LS	\$250,000.00	\$250,000	
Ramp Metering Systems	2	EA	\$125,000.00	\$250,000	
ITS Elements	Lump Sum	LS	\$609,000.00	\$609,000	
COZEEP Contract	Lump Sum	LS	\$250,001.00	\$250,000	
•			,	Subtotal Traffic Items	\$3,484,471.00
			TOTA	AL SECTIONS 1 - 5:	\$20,514,886.00

DIST - CO - RTE

10-STA-99 21.9/23.1 10-0L330K Item Cost Section 6 - Minor Items Section Cost Subtotal Sections 1 - 5 \$20,514,886 X (5%) \$1,025,744 TOTAL MINOR ITEMS: Section 7 - Roadway Mobilization \$20,514,886 Subtotal Sections 1 - 5 \$1,025,744 Minor Items \$21,540,630 X (10%) \$2,154,063 TOTAL ROADWAY MOBILIZATION \$2,154,060 Section 8 - Roadway Additions Supplemental Subtotal Sections 1 - 5 \$20,514,886 Minor Items \$1,025,744 Sum \$21,540,630 X (5%) \$1,077,032 Contingencies Subtotal Sections 1 - 5 \$20,514,886 Minor Items \$1,025,744 Sum \$21,540,630 20% * \$4,308,126 TOTAL ROADWAY ADDITIONS \$5,385,160 **TOTAL ROADWAY ITEMS** \$29,080,000 (Subtotal of Sections 1 - 8) Estimate Prepared By: CHI WAI NG (408) 280-2772 9-May-09 (Print Name) (Phone) (Date) Martha M Dadala Estimate Checked By: (408) 280-2772 9-May-09 (Print Name) (Phone) (Date)

Sheet: 4 of 6

^{*} Use 25% at the PSR stage or a higher or lower rate if justified.

DIST - CO - RTE 10-STA-99 PM: 21.9/23.1 EA: 10-0L330K

II. STRUCTURES ITEMS			•		
Bridge Name	Rou	ute 219/99 Sepa	aration		
Structure Type	CIP/F	S Concrete Bo	x Girder		
Width (ft) - out to out			MARINE MA	-	
Span Lengths (ft)		. 5.			
Total Area (SQ ft)		33,048.0			
Footing Type(pile/spread)		Pile			
Cost per Sq. ft. Including: Mobilization: 10% Contingency: 25%		\$200			
Bridge Removal/Modification Total Cost For Structure		\$7,030,000	***************************************	• •	
			SUBTOTAL STRUC (Sum of Total cost	_	\$7,000,000
Railroad Related Costs		, and the second		•	
			SUBTOTAL RAI	LROAD ITEMS	\$0
		·	TOTAL STRUCT	_	\$7,000,000
COMMENTS:		(Sum of s	Stuctures Items plus I	Railroad items)	
Estimate Prepared By:	NAME OF THE OPEN PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY		(408)280-2772		9-May-09
	(Print Name)		(Phone)		(Date)

			DIST - CO - F	
			10-STA-98 PM: 21.9/23.1 EA: 10-0L330k	
II. I	RIGHT OF WAY			
			Escalated Value *	<u> </u>
	Acquisition, including excess damages to remainder(s) and Utility Relocation (State Share	Goodwill	\$6,660,00 \$1,819,00	
D.	Relocation Assistance Clearance / Demolition Title and Escrow Fees		\$360,00 \$125,00 \$80,00	00
			TOTAL RIGHT OF WAY IT (Escalated V	
			Anticipated Date of Right of Way Certific (Date to which Values are Escal	
٠.	Construction Contract Work		(2500 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30000
	Brief Description of Work:		· .	
			Right of Way Branch Cost Estimate for W	Vork* \$0
	*This dollar amount is to be in Do not include in the Right of		ay and/or Structures Item of Work, as appropri	ate.
	COMMENTS:			
	Estimate prepared by:	CHI WAI NG	(408)-280-2772	9-May-09
		(Print Name)	(Phone)	(Date)

Sheet 6 of 6

ROUTE 99/ROUTE 219 (KIERNAN AVENUE) INTERCHANGE PROJECT PRELIMINARY PROJECT COST ESTIMATE SUMMARY

DIST - CO - RTE 10-STA-99 PM: 21,9/23.1 Program Code; Project Description: SIZ 99/kierwan I/c Limits: In Stanislaus County Proposed Improvement: Hybrid (Type L-1 and Type L-6) Interchange (Scope) Alternative 2 Alternative: Route 99/Kiernan Avenue Interchange Project SUMMARY OF PROJECT COST ESTIMATE TOTAL ROADWAY ITEMS \$49,300,000 TOTAL STRUCTURE ITEMS \$12,300,000 SUBTOTAL CONSTRUCTION COSTS \$61,600,000 TOTAL RIGHT OF WAY ITEMS \$10,600,000 TOTAL PROJECT CAPITAL OUTLAY COSTS \$72,200,000 Reviewed by District Program Manager Approved by 5/5/09 Project Manage Phone No. 408 280.277 Prepared by, RAJAPPAN & MEYER CONSULTING ENGINEERS Sheet: 1 of 6

DIST - CO - RTE 10-STA-99

PM: 21.9/23.1 10-0L330K EA: I. ROADWAY ITEMS Quantity <u>Unit</u> **Unit Price** Item Cost Section Cost Section 1 - Earthwork Roadway Excavation CY 495,000 \$13,860,000 \$28.00 Imported Borrow CY 0 \$35.00 \$0 Clearing & Grubbing LS \$200,000.00 Lump Sum \$200,000 Develop Water Supply Lump Sum LS \$40,000.00 \$40,000 Project Schedule Lump Sum LS \$20,000.00 \$20,000 Subtotal Earthwork \$14,120,000.00 Section 2 - Pavement Structural Section * PCC Pavement (_ __ Depth) PCC Pavement (Depth) Asphalt Concrete 37,145 TONN \$120.00 \$4,457,400 Lean Concrete Base Cement-Treated Base Aggregate Base 28,825 CY \$58.00 \$1,671,850 Treated Permeable Base Aggregate Subbase CY 27,780 \$30.00 \$833,400 Pavement Reinforcing Fabric Edge Drains Pavement Concrete Curb & Gutter CY 810 \$500.00 \$405,000 920 Sidewalk CY \$500.00 \$460,000 Subtotal Pavement Structural Section \$7,827,650.00 Section 3 - Drainage Large Drainage Facilities Storm Drains Lump Sum LS \$2,500,000.00 \$2,500,000 Construction BMP's Lump Sum LS \$350,000.00 \$350,000 Construction Site Management LS Lump Sum \$450,000.00 \$450,000 Treatment BMP's Lump Sum LS \$650,000.00 \$650,000 Sampling and Analysis Lump Sum LS \$15,000.00 \$15,000 **Detention Basin** Subtotal Drainage \$3,965,000.00

DIST - CO - RTE

	10-STA-99
PM:	21.9/23.1
EA:	10-0L330K

	Quantity	<u>Unit</u>	Unit Price	Item Cost	Section Cost
Section 4 - Specialty Items					
Retaining Walls	33,550	SF	\$84.00	\$2,818,200	
Noise Barriers	Lump Sum	LS	\$570,000.00	\$570,000	
Barriers and Guardails	2,770	LF	\$150.00	\$415,500	
Equipment/Animal Passes					
Highway Planting	Lump Sum	LS	\$300,000.00	\$300,000	
Replacement Planting			,		
Irrigation Modification	Lump Sum	LS	\$100,000.00	\$100,000	•
Relocate Private Irrigation					
Facilities					
Erosion Control	Lump Sum	LS	\$800,000.00	\$800,000	
Slope Protection					
Water Pollution Control	Lump Sum	LS	\$300,000.00	\$300,000	
Hazardous Waste Mitigation				-	
Work	Lump Sum	LS	\$70,000.00	\$70,000	
Environmental Mitigation	Lump Sum	LS	\$120,000.00	\$120,000	
Resident Engineer Office Space	Lump Sum	LS	\$50,000.00	\$50,000	
			Si	ubtotal Specialty Items	\$5,543,700.00
Section 5 - Traffic Items			<u></u>		
Lighting and Sign Illumination	Lump Sum	LS	\$200,000.00	\$200,000	
Traffic Delineation Items	97,450	LF	\$3.00	\$292,350	
Modify Traffic Signal	4	EA	\$200,000.00	\$800,000	
Overhead Sign Structures	6	EA	\$100,000.00	\$600,000	
Roadside Signs	Lump Sum	LS	\$50,000.00	\$50,000	
Traffic Control Systems	Lump Sum	LS	\$250,000.00	\$250,000	
Transportation Mgmt Plan	Lump Sum	LS	\$250,000.00	\$250,000	
Ramp Metering Systems ITS Elements	Luman Suma	EA	\$125,000.00	\$250,000	
COZEEP Contract	Lump Sum Lump Sum	LS	\$609,000.00	\$609,000	
COZEEF CONTRACT	Lump Sum	LO	\$250,000.00	\$250,000	<u>Ф2 204 250 00</u>
				Subtotal Traffic Items	\$3,301,350.00
			TOT	AL SECTIONS 1 - 5:	\$34,757,700.00
•			1017	TE OLOHONO 1- 0	Ψ54,757,700.00

Sheet: 3 of 6

DIST - CO - RTE 10-STA-99

Sheet: 4 of 6

21.9/23.1 10-0L330K Item Cost Section 6 - Minor Items Section Cost Subtotal Sections 1 - 5 \$34,757,700 X (5%) \$1,737,885 TOTAL MINOR ITEMS: \$1,737,885 Section 7 - Roadway Mobilization Subtotal Sections 1 - 5 \$34,757,700 Minor Items \$1,737,885 \$36,495,585 Sum X (10%) \$3,649,559 TOTAL ROADWAY MOBILIZATION Section 8 - Roadway Additions Supplemental Subtotal Sections 1 - 5 \$34,757,700 Minor Items \$1,737,885 \$36,495,585 Sum X (5%) \$1,824,779 Contingencies Subtotal Sections 1 - 5 \$34,757,700 Minor Items \$1,737,885 Sum \$36,495,585 20% * \$7,299,117 TOTAL ROADWAY ADDITIONS \$9,123,900 **TOTAL ROADWAY ITEMS** \$49,270,000 (Subtotal of Sections 1 - 8) Estimate Prepared By: CHI WAI NG (408) 280-2772 9-May-09 (Print Name) (Phone) (Date) Martha M Dadala (408) 280-2772 Estimate Checked By: 9-May-09 (Print Name) (Phone) (Date) * Use 25% at the PSR stage or a higher or lower rate if justified.

EA: 10-0L330K II. STRUCTURES ITEMS Route 219/99 Bridge Name SB Ramps Separation Structure Type CIP/PS Concrete Box Girder Width (ft) - out to out Span Lengths (ft) Total Area (SQ ft) 2,654.0 53,622.0 Footing Type(pile/spread) Pile Pile Cost per Sq. ft. \$578 \$204 Including: Mobilization: 10% Contingency: 25% Bridge Removal/Modification Total Cost For Structure \$1,533,000 \$10,812,000 SUBTOTAL STRUCTURES ITEMS \$12,300,000 (Sum of Total cost for Structures) Railroad Related Costs SUBTOTAL RAILROAD ITEMS \$0 TOTAL STRUCTURES ITEMS: \$12,300,000

COMMENTS:

Estimate Prepared By: CHI WAI NG

(Print Name)

Sheet: 5 of 6

9-May-09

(Date)

DIST - CO - RTE 10-STA-99

21.9/23.1

PM:

(Sum of Stuctures Items plus Railroad items)

(408)280-2772

(Phone)

	DIST - CO - RTE 10-STA-99 PM: 21.9/23.1 EA: 10-0L330K	
III. RIGHT OF WAY		
	Escalated Value *	
 A. Acquisition, including excess lands, damages to remainder(s) and Goodwill B. Utility Relocation (State Share) C. Relocation Assistance D. Clearance / Demolition E. Title and Escrow Fees 	\$7,965,000 \$1,819,100 \$500,000 \$225,000 \$92,500	
TOTAL RI	GHT OF WAY ITEMS	\$10,631,600
	(Escalated Value)	
Anticipated Date of Righ	· -	
F. Construction Contract Work	Values are Escalated)	
Brief Description of Work:		\$30,000
*		
Right of Way Branch Co	ost Estimate for Work*	\$0
*This dollar amount is to be included in the Roadway and/or Structures Item of V Do not include in the Right of Way Items	Vork, as appropriate.	
COMMENTS:		
Estimate prepared by: CHI WAI NG (408)-280-27	772	9-May-09
(Print Name) (Phone)		(Date)

Sheet 6 of 6

ATTACHMENT E RIGHT OF WAY DATA SHEETS (RWDS)





January 22, 2009

To: Michael Rodrigues

Assistant Central Region Chief, Right of Way

10-STA-99-PM R21.96/R23.12 10-STA-219-PM 0.0/0.3

EA 10-0L330K

From: Keith Meyer

Rajappan & Meyer Consulting Engineers

Route 99/Kieman Avenue (Route 219)

Interchange Reconstruction PSR Salida, Stanislaus County

Subject:

Current Estimate of Right of Way Costs for Project Study Report

Kiernan Avenue/Route 99 Interchange Reconstruction Alternatives 1 and 2

Associated Right of Way Services, Inc. (ARWS) has completed an estimate of the right of way costs for two alternatives for the above referenced project based on maps prepared by our firm and the following assumptions and limiting conditions.

- Project maps and required acquisition areas were developed by Rajappan & Meyer Consulting 1. Engineers, based on preliminary design requirements for each alternative. The basis of the design and right of way information includes aerial topographic mapping and right of way record maps. These maps are preliminary and are adequately accurate only to prepare the PSR Right of Way estimate. The right of way area calculations are assumed to reflect the needs for the project only west of Sisk Road. Transition to existing lanes at the time of construction will be made for the Sisk Road legs north and south of Kiernan and the Kiernan leg east of Sisk Road. Property boundaries were not staked by survey. Any changes to proposed improvements, parcel delineations or areas may dramatically impact the estimated right of way costs.
- 2 The right of way estimate is not an appraisal. The right of way estimate was prepared solely to assist the Project team in its decision-making related to costs associated with acquiring property rights for the proposed project alternatives. The estimator relied only on the areas and parcel delineations as provided on the project maps.
- 3. The estimate has been prepared using appraisal principles without the depth of investigation and verification required of a formal appraisal. The estimator has based the estimate on the highest supported anticipated costs and a "worst case" scenario.
- 4. Verification of the comparables used in estimating values in this report is limited to that information which was available though data subscription services and the local multiple listing service.
- 5. Project maps and required acquisition areas were provided by Rajappan & Meyer Consulting Engineers, based on preliminary design requirements for each alternative. These maps are preliminary and are adequately accurate to prepare the PSR Right of Way estimate. The right of way area calculations are assumed to reflect the needs for the project only west of Sisk Road. Property boundaries were not staked by survey. The estimator relied on the areas and parcel delineations as provided on the project maps. Any changes to proposed improvements, parcel Jelineations or areas may dramatically impact the estimated right of way costs.

- 6. Demolition costs were provided in the right of way estimate. However, the costs provided are an estimate only, and no warranty is given for their accuracy.
- 7. Utility information was provided by Alliance Electrical Consultants and is believed to be reliable. However, no warranty is given for its accuracy as it is preliminary.
- 8. Preliminary Title Reports were not provided and the estimator relied on Assessor's records for ownership information. However, no warranty is given for its accuracy. The subject properties are assumed to be free and clear of any or all liens and encumbrances. No responsibility is assumed for legal or title considerations. Title to the properties is assumed to be good and marketable.
- 9. No allowance has been made for hazardous or toxic substances in the structure or soil comprising the subject ownerships.
- 10. The right of way is anticipated to be acquired by Stanislaus County.
- 11. Right of Way Lead time will require a minimum of 12 months after we prepare final right of way requirements, necessary environmental clearance has been obtained, and freeway agreements have been approved, if needed. Shorter lead times will require either more right of way resources or an increased number of condemnation suits to be filed.

Attachments:

Alternative 1

- [X] Right of Way Data Sheet All Pages (required when interest in real property being acquired)
- [X] Utility Information Sheet

Alternative 2

- [X] Right of Way Data Sheet All Pages (required when interest in real property being acquired)
- [X] Utility Information Sheet

Sincerely,

RAJAPPAN & MEYER CONSULTING ENGINEERS, INC.

Keith G. Meyer, P.E.

Vice President

4-EX-1 (REV 3/2004) Page 1 of 4

o:	District Office Chief	Date March 9, 200	9	
	R/W Local Public Agency Services	Dist 10 Co S	A Rie 99 P/N	1 21,9/23,1
A W	District Branch	· · · · · · · · · · · · · · · · · · ·		
ttention:	Services	EA <u>10-0L330K</u>		
		Project Description	Route 99/Route 219 (Kie Interchange Project	rnan Avenue)
	Right of Way Data			
ibject:	Sheet – Local Public Agency Services	Alternate No. I		are All all all all all all all all all all
ioject.				
vis Alterna	ite meets the criteria for a Desig	m/Build project: Yes 🔲	No ⊠	
go Alecci				
Righ	t of Way Cost Estimate: To b	e entered into PMICS CUST	KW1-3 Screens.	
				Projected
		Current Year	Escalation	Year
		2009	Rate	2011
	l Acquisition Cost			· • •
	isition, including Excess Lands ages, and Goodwill.	\$ 6,435,000	5.0 %	\$ 7,094,600
	tors' Appraisal Cost	\$ 70,000		\$ 70,000
Na . 4 i	ty Relocation (State Share)	\$ 1,819,000	5.0 %	\$ 2,005,500
医围门骨髓 二十二	cation Assistance	\$ 360,000	5.0 %	\$ 396,900
A Carlo A Carlo	rance/Demolition	\$ 125,000	5.0 %	\$ 137,800
A 0.5	and Escrow	\$ 35,000	5.0 %	\$ 38,600
N 4		\$ 8,844,000		\$ 9,743,400
	l Estimated Cost		(These are constru	\$2-(\$2-2-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
. Con	struction Contract Work	\$ 30,000	to be included in th	
Cur	rent Date of Right of Way Cer	rtification <u>J</u>	ine 2011	
		CC EVAIT DW Carray		
Parc	el Data: To be entered into PM	ICO EVINT IN A OCIECIE		
Туре	<u>Dual/Appr</u>	<u>Utilities</u>	RR Invol	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
X		U4-1 3 -2	None C&M Ap	<u></u>
A B	5 1	-2 -3 3	Svc Cont	
c :	9 3	-4	Desi	
D		U5-7	Con	
E	XXXX		Lic/RE/C	lauses
F	XXXX	<u>-9</u> <u>4</u>		W Want
			Misc. R/ RAP Dis	
Tota	<u> </u>		Clear/De	
			Const Pe	(Selected to the contract of t
	THE RESERVE OF THE PARTY OF THE	for the second s	COHOLI C	umus v
			Condemi	

EXHIBIT 4-EX-1 (REV 3/2004) Page 2 of 4

	Entered AGRE Screen (Railroad data only)/	
4.	Are there any major items of construction contract work? Yes No 🗵 (If	"Yes," explain.)
5.	Provide a general description of the right of way and excess lands required (zoning, us critical or sensitive parcels, etc.). No right of way required.	
त्र । विहे	Land uses in the project site are of commercial, warehousing and light industrial uses, the interchange area.	with retail and railroad west of
6.	Is there an effect on assessed valuation? Yes ☐ Not Significant ☒ No ☐	(If "Yes," explain,)
	Are utility facilities or rights of way affected? Yes No (If "Yes," attach Utility Information Sheet, Exhibit 4-EX-5.) The following checked items may seriously impact lead time for utility relocation: Longitudinal policy conflict(s) Environmental concerns impacting acquisition of potential easements Power lines operating in excess of 50 KV and substations (See attached Exhibit 4-EX-5 for explanation.)	
8.	Are Railroad facilities or rights of way affected? Yes \(\sum \text{No } \infty \) (If "Yes," attach Railroad Information Sheet, Exhibit 4-EX-6.)	

RIGHT OF WAY DATA SHEET (Cont.) (Form#)

Were any previously unidentified sites with hazardous waste and/or material found? (If "Yes," attach memorandum per R/W Manual, Chapter 4, Section 4.01.10.00.) None Evident 🛛 Studies for Aerially Deposited Lead (ADL) and Naturally Occurring Asbestos (NOA) will be conducted prior to construction activities. Several actions may be required to resolve potential hazardous waste issues including removal of thermoplastic striping, testing of properties to be acquired, removal of electrical transformers, and testing for asbestos in buildings to be demolished. Studies for aerially deposited lead would be conducted prior to construction activities. If Naturally Occurring Asbestos is suspected, testing would also be conducted. Measures would be identified to protect the health and safety of construction workers. Costs are estimated at approximately \$40,000-\$50,000. Costs for removal of the transformers should be borne by the electrical utility. Are RAP displacements required? Yes No 🗌 (If "Yes," provide the following information.) No. of business/nonprofit No. of single family No. of multi-family No. of farms DRIS will be prepared in PA/ED phase. 11. Are there Material Borrow and/or Disposal Sites required? No 🛛 Yes 🔲 (If "Yes," explain.) Are there potential relinquishments and/or abandonments? Yes No 🛛 (If "Yes," explain.) Are there any existing and/or potential airspace sites? No 🖂 (If "Yes," explain.) Yes ___

			of Way schedule and lead the			t proposes less than
			nts on Page 1 of this Data She als can begin to project certifi		a lead time of	<u>12</u> months
In a	ny event, RW M	laps will r	require 8 months from	om Final Maps to pro	ject certificat	ion.
	aus County as the to accomplish		r of the project will perform r of way work.	ight of way work. Co	unty concurs	with the above schedule
lŚ, Is it	anticipated that	Caltrans	staff will perform all Right of	Way work? Yes	□ No⊠	(If "No," discuss.)
TI	ne Stanislaus Co	unty is th	e sponsor of the project. Cour	nty will perform right	of way work.	•
Evaluation	Prepared By:					
Right of W		Name-	Steven L. Castellano, SR/W	<u> </u>	Date:	MAK. 9, 2009
			Right of Way Consultant Associated Right of Way Se	ervices, Inc.		3/9/09
Railroad:		Name	Martin M. Dadala		Date:	31 1
Utilities:		Name	m			3/9/09
			John Beebe		Date:	
	(//	Recommended for Appr Keith G. Meyer, P.E.	oval:	Date:	3/9/09
Highes	t and Best Use,	estimated	Right of Way Data Sheet and values, escalation rates, and I find I is Data Sheet compl	assumptions are reas	nation. I certif onable and pr	y that the probable oper subject to the
			Mary		3-1	12.09
			Michael J. Rodrigues Assistant Central Region	1 Chief, Right of Way	Date:	

and

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION UTILITY INFORMATION SHEET

Kiernan Ave Interchange, Salida

\$<u>\$1,819,100</u>

	Modesto.
2.	Types of facilities and agreements required: AT&T has underground facilities on Kiernan Ave. (Broadway Ave., SR-219). PG&E has a distribution gas pipeline on Kiernan Ave. (Broadway Ave.SR-219). MID have aerial distribution facilities on Kiernan Ave. (Broadway Ave. SR-219). The City of Modesto has a 12" water main on Kiernan Ave. (Broadway Ave.SR-219). The PG&E gas pipe, City of Modesto water pipe, and AT&T conduit Structure cross highway 99 in the cell of the Broadway Bridge via what appears to be an encroachment permit.
	The agreements required on this project are utility agreement and a utility permit.
3.	Is any facility a longitudinal encroachment in existing or proposed access controlled right of way? Yes
	PG&E has a 4" steel gas main on SR 219 that passes through the cells of the overcrossing and extends 1,180' to Sisk Rd. AT&T has 12-4" conduits that pass through the cells of the overcrossing and terminate in a manhole 1420' east of the bridge. From that point AT&T has 390' of 8-4" conduits that terminate in a manhole on Sisk Rd. The City of Modesto pipeline on SR 219 that passes through the cells of the overcrossing and extends 1,180' to Sisk Rd. MID has 12 poles and associated conductors and equipment on the north side of SR219 from the ramps to Kiernan Ct.
	Disposition of longitudinal encroachment(s): Relocation required. Exception to policy needed. X Other. Explain.
	ngitudinal encroachments are in SR 219, which is a conventional highway. Per recommendation of District 10, no ception to policy is required.
4.	Additional information concerning utility involvements on this project, i.e., long lead time materials, growing or special seasons, customer service seasons (no transmission tower relocations in summer). None
5.	PMCS Input Information Total estimated cost of State's obligation for utility relocation on this project:

1. Name of utility companies involved in project: AT&T, PG&E, Modesto Irrigation District (MID), and The City of

Note: Total estimated cost to include any Department obligation to relocate longitudinal encroachments in access controlled right of way and acquire any necessary utility easements.

		<u>Utility l</u>	nvolvements	
	U4-1 _	3	U5-7	
	-2			
	-3	<u>3</u>		4
	- 4			
Prepared By:				
John Beebe				1/21/09
Right of Way Utility Es	stimator			Date
-				

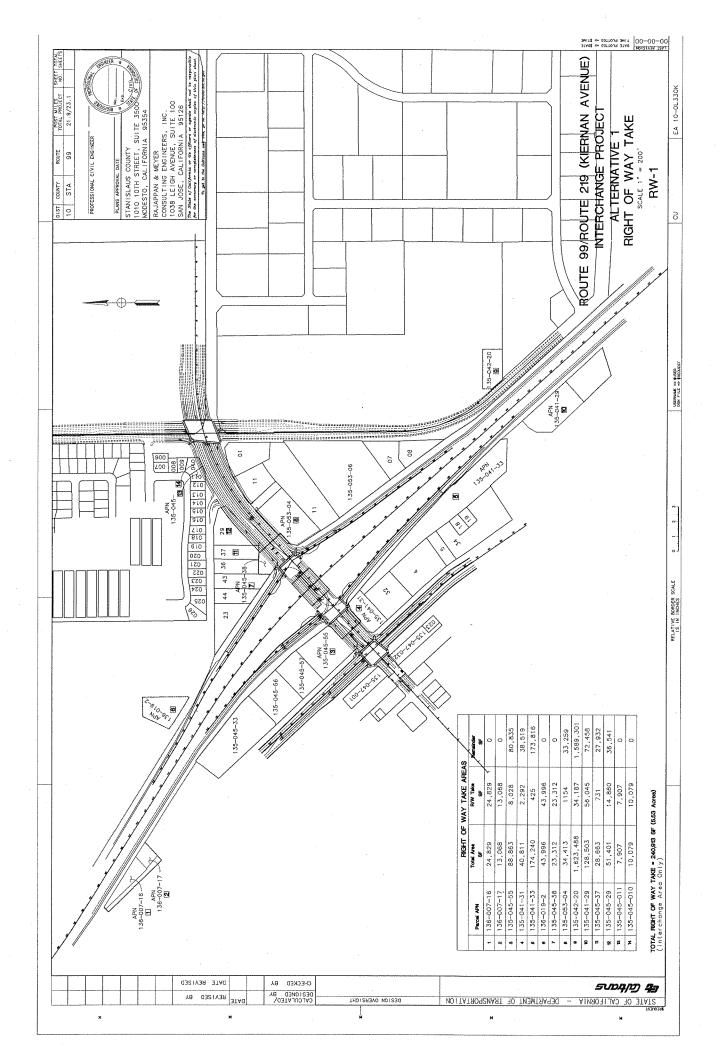
STATE OF CALFORNIA - DEPARTMENT OF TRANSPORTATION ESTIMATE WORKSHEET

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*Parcel 1 cost includes billboard.

TYPE OF PERMIT

ESTIMATED COST (15)







January 22, 2009

To: Michael Rodrigues

Assistant Central Region Chief, Right of Way

10-STA-99-PM R21.96/R23.12 10-STA-219-PM 0.0/0.3

EA 10-0L330K

From: Keith Meyer

Rajappan & Meyer Consulting Engineers

Route 99/Kiernan Avenue (Route 219)

Interchange Reconstruction PSR

Salida, Stanislaus County

Subject: Current Estimate of Right of Way Costs for Project Study Report

Kiernan Avenue/Route 99 Interchange Reconstruction Alternatives 1 and 2

Associated Right of Way Services, Inc. (ARWS) has completed an estimate of the right of way costs for two alternatives for the above referenced project based on maps prepared by our firm and the following assumptions and limiting conditions.

- Project maps and required acquisition areas were developed by Rajappan & Meyer Consulting 1. Engineers, based on preliminary design requirements for each alternative. The basis of the design and right of way information includes aerial topographic mapping and right of way record maps. These maps are preliminary and are adequately accurate only to prepare the PSR Right of Way estimate. The right of way area calculations are assumed to reflect the needs for the project only west of Sisk Road. Transition to existing lanes at the time of construction will be made for the Sisk Road legs north and south of Kiernan and the Kiernan leg east of Sisk Road. Property boundaries were not staked by survey. Any changes to proposed improvements, parcel delineations or areas may dramatically impact the estimated right of way costs.
- 2 The right of way estimate is not an appraisal. The right of way estimate was prepared solely to assist the Project team in its decision-making related to costs associated with acquiring property rights for the proposed project alternatives. The estimator relied only on the areas and parcel delineations as provided on the project maps.
- The estimate has been prepared using appraisal principles without the depth of investigation and 3. verification required of a formal appraisal. The estimator has based the estimate on the highest supported anticipated costs and a "worst case" scenario.
- Verification of the comparables used in estimating values in this report is limited to that 4. information which was available though data subscription services and the local multiple listing service.
- Project maps and required acquisition areas were provided by Rajappan & Meyer Consulting 5. Engineers, based on preliminary design requirements for each alternative. These maps are preliminary and are adequately accurate to prepare the PSR Right of Way estimate. The right of way area calculations are assumed to reflect the needs for the project only west of Sisk Road. Property boundaries were not staked by survey. The estimator relied on the areas and parcel delineations as provided on the project maps. Any changes to proposed improvements, parcel delineations or areas may dramatically impact the estimated right of way costs.



- 6. Demolition costs were provided in the right of way estimate. However, the costs provided are an estimate only, and no warranty is given for their accuracy.
- 7. Utility information was provided by Alliance Electrical Consultants and is believed to be reliable. However, no warranty is given for its accuracy as it is preliminary.
- 8. Preliminary Title Reports were not provided and the estimator relied on Assessor's records for ownership information. However, no warranty is given for its accuracy. The subject properties are assumed to be free and clear of any or all liens and encumbrances. No responsibility is assumed for legal or title considerations. Title to the properties is assumed to be good and marketable.
- 9. No allowance has been made for hazardous or toxic substances in the structure or soil comprising the subject ownerships.
- 10. The right of way is anticipated to be acquired by Stanislaus County.
- 11. Right of Way Lead time will require a minimum of 12 months after we prepare final right of way requirements, necessary environmental clearance has been obtained, and freeway agreements have been approved, if needed. Shorter lead times will require either more right of way resources or an increased number of condemnation suits to be filed.

Attachments:

Alternative 1

- [X] Right of Way Data Sheet All Pages (required when interest in real property being acquired)
- [X] Utility Information Sheet

Alternative 2

- [X] Right of Way Data Sheet All Pages (required when interest in real property being acquired)
- [X] Utility Information Sheet

Sincerely.

RAJAPPAN & MEYER CONSULTING ENGINEERS, INC.

Keith G. Meyer, P.E.

RIGHT OF WAY DATA SHEET (Cont.) (Form #)

4-EX-1 (REV 3/2004) Page 1 of 4

ľo:	District Office Chief R/W Local Public	Date March 9, 200	9	
	Agency Services	Dist <u>10</u> Co <u>S</u>	TA Rte 99 P/M	21.9/23.1
	District Branch	מספר גם מו		
ttentio	n: Services	EA <u>10-0L330K</u>	Route 99/Route 219 (Kier	nan Avenue)
a Salija.		Project Description	Interchange Project	
r ti Wh Sili				
	Right of Way Data Sheet – Local Public			
ibject:	Agency Services	Alternate No. 2		
nic Alte	emate meets the criteria for a Design/	Build project: Yes	No ⊠	and the second of the second o
113 71110				
R	ight of Way Cost Estimate: To be e	intered into PMCS COST	RW1-5 Screens.	
				Projected
Pili Pia		Current Year	Escalation	Year
		2009	Rate	2011
	otal Acquisition Cost			\$
	equisition, including Excess Lands, amages, and Goodwill.	\$ 7,535,000	5.0 %	\$ 8,307,300
	rantors' Appraisal Cost	\$ 75,000		\$ 75,000
	tility Relocation (State Share)	\$ 1,819,100	5.0 %	\$ 2,005,600
77 . 46.		7.00.000	5.0 %	\$ 2,000,000
	elocation Assistance	***************************************	(Antigotic Street or the Control of	***
8 4 Y. T	learance/Demolition	\$ 225,000	· 	\$ 248,000
Y Long	itle and Escrow	\$ 37,500	5.0 %	\$ 41,300
i se e e e	otal Estimated Cost	\$ 10,191,600		\$ 11,228,400
. с	onstruction Contract Work	\$ 30,000	(These are construct to be included in the	
			10 De monueu mano	projects rockly
C	urrent Date of Right of Way Certii	fication Ju	ne 2011	
ь	arcel Data: To be entered into PMC	S EVNIT DW Screen		
P	arcerpata, to be ended into a med	3 D 7 THE R W GOLWIE		
	ype <u>Dual/Appr</u>	<u>Utilities</u>	RR Involv	رو:
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	gradual programme and the company of		Const Perr	20000
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EXHIBIT 4-EX-1 (REV 3/2004) Page 2 of 4

	Entered AGRE Screen (Railroad data only)// by	Maria de la composition de la composit La composition de la
- 1 関す - 5 - 1	Emerger works Server (reamond data only)	
4.	Are there any major items of construction contract work? Yes No (If	Yes," explain)
		a di
5.	Provide a general description of the right of way and excess lands required (zoning, use critical or sensitive parcels, etc.). No right of way required.	e, major improvements,
		adamba A Araba na mara ka sa
	Land uses in the project site are of commercial, residential, warchousing and light indus	trial uses, with retail and
	railroad west of the interchange area.	
6.	Is there an effect on assessed valuation? Yes Not Significant No No	(If "Yes," explain.)
i si		
		,
7	Are utility facilities or rights of way affected?	
	Yes No (If "Yes," attach Utility Information Sheet, Exhibit 4-EX-5.)	
	The following checked items may seriously impact lead time for utility relocation: Longitudinal policy conflict(s)	
53) 433	Environmental concerns impacting acquisition of potential easements	
	Power lines operating in excess of 50 KV and substations (See attached Exhibit 4-EX-5 for explanation.)	
	ASSEC MELLING EXHIBIT TEXTS TO TEXT MAINTAINS	
		N.
ar Uiri		

Are Railroad facilities or rights of way affected?
Yes \(\sum \) No \(\sum \) (If "Yes," attach Railroad Information Sheet, Exhibit 4-EX-6.)

9. Were any previously unidentified sites with hazardous waste and/or materially None Evident (If "Yes," attach memorandum per R/W M Studies for Aerially Deposited Lead (ADL) and Naturally Occurring Asbe construction activities. Several actions may be required to resolve potential has thermoplastic striping, testing of properties to be acquired, removal of electrical buildings to be demolished. Studies for aerially deposited lead would be come Naturally Occurring Asbestos is suspected, testing would also be conducted. M health and safety of construction workers. Costs are estimated at approximately Stransformers should be borne by the electrical utility.	Manual, Chapter 4, Section 4.01,10.00.) astos (NOA) will be conducted prior a zardous waste issues including removal all transformers, and testing for asbestos ducted prior to construction activities. Measures would be identified to protect the street of
10. Are RAP displacements required? Yes ⊠ No ☐ (If "Yes," prov	vide the following information.)
No. of single family 3 No. of business/nonpro	fit
No. of multi-family 0 No. of farms	
Based on Draft/Final Relocation Impact Statement/Study dated sufficient replacement housing (will/will not) be available without Last Re	, it is anticipated that sort Housing.
DRIS will be prepared in PA/ED phase.	
11. Are there Material Borrow and/or Disposal Sites required? Yes	No ☑ (If "Yes," explain.)
11. Are there Material Borrow and/or Disposal Sites required?	ino NZ (et. 1003 political)
Are there potential relinquishments and/or abandonments? Yes N	o⊠ (If"Yes," explain.)
	(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)
13. Are there any existing and/or potential airspace sites? Yes N	o ☑ ([["Yes," explain.)

14.	Indicate the anticip PMCS lead time an	ated Right of id/or if signif	Way schedule and lead time required icant pressures for project advancement	ments. (Discuss if distrent are anticipated.)	ict proposes l	ess than
			on Page 1 of this Data Sheet, R/W we can begin to project certification.	rill require a lead time o	of <u>12</u>	months
	In any event, RW-N	Aaps will req	uire 8 months from Final N	daps to project certifier	ation.	
	Stanislaus County as t		f the project will perform right of wa	y work. County concur	s with the abo	ve schedul
15.	Is it anticipated that	t Caltrans sta	ff will perform all Right of Way work	k? Yes No 🛭	(If"No,	" discuss.)
	The Stanislaus Co	ounty is the s	ponsor of the project. County will pe	rform right of way wor	k.	
Evalu	intion Prepared By:					
Right	of Way:		teven L. Castellano, SR/WA	Date:	mar. 9	2005
			ssociated Right of Way Services, Inc	**		
Railre	oad:	NameN	farita M. Dadala	Date:	3/9/09	<u> </u>
Utilit	ics:	Name			3/041	09
		(1)	ohn Beebe	Date:		
			Recommended for Approval; Keith G. Meyer, P.E.	Date:	3/9/09	i
ŀ	lighest and Best Use,	estimated va	tht of Way Data Sheet and all suppor thes, escalation rates, and assumption find this Data Sheet complete and cur	ns are reasonable and p		
			Michael J. Rodrigues Assistant Central Region Chief, Ri		3-12-09	

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION UTILITY INFORMATION SHEET

Disposition of longitudinal encroachment(s):

Relocation required.

Kiernan Ave Interchange, Salida

1.	Name of utility	companies involved i	in project: AT&T	, PG&E, M	Iodesto Irriga	ation District (N	IID), and	The City	of
	Modesto.								

2. Types of facilities and agreements required: AT&T has underground facilities on Kiernan Ave. (Broadway Ave., SR-219). PG&E has a distribution gas pipeline on Kiernan Ave. (Broadway Ave.SR-219). MID have aerial distribution facilities on Kiernan Ave. (Broadway Ave. SR-219). The City of Modesto has a 12" water main on Kiernan Ave. (Broadway Ave.SR-219). The PG&E gas pipe, City of Modesto water pipe, and AT&T conduit Structure cross highway 99 in the cell of the Broadway Bridge via what appears to be an encroachment permit.

The agreements required on this project are utility agreement and a utility permit.

3. Is any facility a longitudinal encroachment in existing or proposed access controlled right of way? Yes

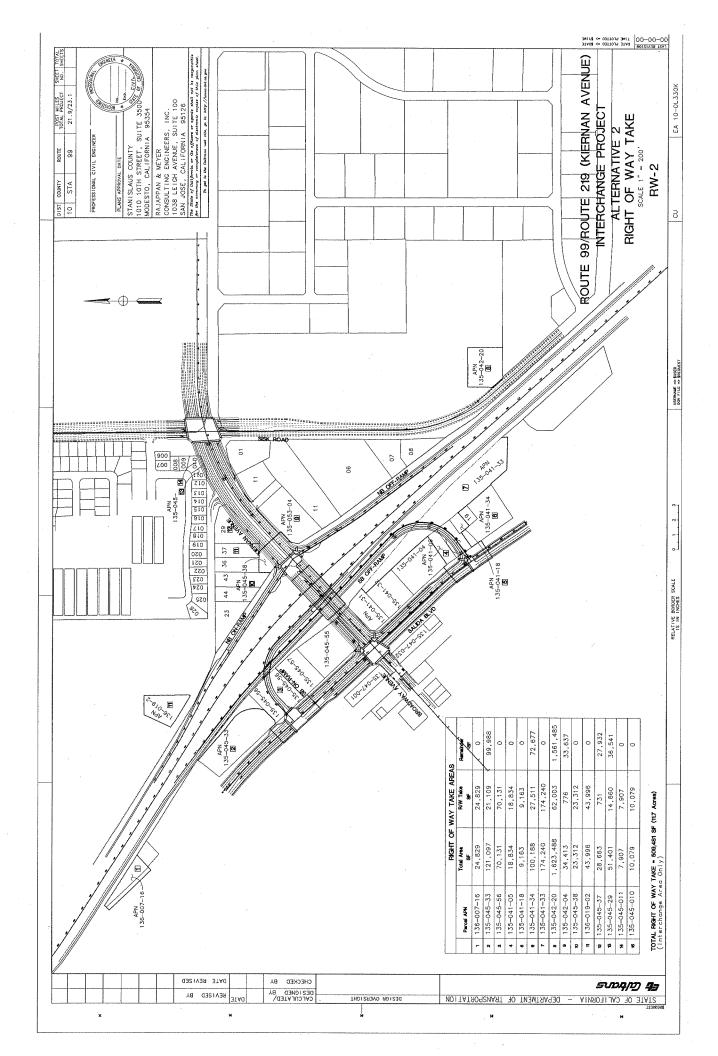
PG&E has a 4" steel gas main on SR 219 that passes through the cells of the overcrossing and extends 1,180' to Sisk Rd. AT&T has 12-4" conduits that pass through the cells of the overcrossing and terminate in a manhole 1420' east of the bridge. From that point AT&T has 390' of 8-4" conduits that terminate in a manhole on Sisk Rd. The City of Modesto pipeline on SR 219 that passes through the cells of the overcrossing and extends 1,180' to Sisk Rd. MID has 12 poles and associated conductors and equipment on the north side of SR219 from the ramps to Kiernan Ct.

	Explain.	010 which is a some	vantianal biologov D		· CD'-(1-4-10
xception to poli	roachments are in SR 2 cy is required.	119, which is a con	venuonai nignway. P	er recommendation	of District 10, no
	nformation concerning ons, customer service so				
	Information ted cost of State's oblig	gation for utility rel	ocation on this projec	t:	
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	estimated cost to inclu				ncroachments
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ESTIMATED COST (15) TOTAL GRAND TOTAL FROM ALL PAGES



ATTACHMENT F STORM WATER DATA REPORT COVER SHEET (SWDR)

	Dist-County-Route: 10-STA-99
	Post Mile Limits:
	R021.9/R023.2
	Project Type: Interchange Reconstruction
Calbars	EA: 10-0L330K
	RU: 10-243 (Design Oversight)
	Program Identification:
	Phase: PID PA/ED PS&E
Regional Water Quality Control Board(s):	Region 5, Central Valley, Sacramento Office
Is the project required to consider incorporati	ng Treatment BMPs?
If yes, can Treatment BMPs be incorporate	ed into the project?
If No, a Technical Data Report must	be submitted to the RWQCB
at least 60 days prior to PS&E Subm	
	or Alternative 1 and 30.1 acres for Alternative 2
1043 17 8010 004 0041 14 000	Or I salved about to a season of the season and I allocated to a
Estimated Construction Start Date: May	2011 Construction Completion Date: Nov 2013
Notification of Construction (NOC) Date to b	pe submitted: Mar 2011
Notification of ADL reuse (if Yes, provide da	ate) Yes Date: No
Separate Dewatering Permit (if Yes, permit n	number) Yes Permit #: No
uttests to the technical information contained h	ection of the following Licensed Person. The Licensed Person therein and the data upon which recommendations, conclusions, or Landscape Architect stamp required at PS&E.
Ng Chi Wai Registered Project Engineer	Date
Tig Offi Will Togalist and Togalist and Togalist	
I have reviewed the storm water quality design is	ssues and find this report to be complete, current, and accurate:
	un Hobbard 9/10/08
Christina Hibl	bard, Project Manager Date
ALC.	2 ESKL 9/10/2808
Allan Shafer,	Designated Maintenance Representative Date
2440	86 9/10/2008
Brad Cole, Ce	entral Region Landscape Architect Date
Mas	m 124/08
Masian Winki	France Control Pagine NDDES Stormweater Considerator Date

ATTACHMENT G
TMP CHECKLIST

D-10 TRAFFIC MANAGEMENT: DELIVERY- MEMO

	From: Karen Mai D-10 Traffic Man	Date: 9/18/08	
c: FILE, D-10 PIO	Phone: (209) 942-6089		
Re: EA #0L330K		a parlaman di ki kaman kaman kaman di kalaniliki d <mark>a melamaki alimini kamaniya mamaya kamaniya k</mark>	natiiningiini annong portoinise can
the above mentione		ne Requirement Charts, and T	Table Z for
Please include a co Documentation.	py of the TMP Checklist i	n the RE Book with all suppo	rting
, needed. Req shall submit	hall work with RE/Inspec juests shall be made the w	tor to request the necessary la eek prior to the actual work. Closure System (LCS) for ou prior.	Inspector
Managemen	t Center (TMC) when the	either the Contractor to the Tr closure begins (10-97), ends (reached 24-7 at (209) 948-755	10-98), or
	Traffic Control devices thr Standard Specifications.	oughout the duration of the p	roject as
Please call if you	u have any questions rega	rding the attached information	n.

D-10 TRANSPORTATION MANAGEMENT PLAN CHECKLIST

District - EA: Date Prepared: Prepared By: Requested By:	September 12, 2008 Karen Mai Alex Ng		oRi ocati		P.M. :	10-STA-99 PM R21.9/23.2 from 1.7 mi South of the existing Hammett interchange, North of the existing Pelandale ave	and 0.83	mi
Stage of Project (X box) X PID PSR PR PS&E	De	escr	ipti	on:	Reconstruction of interchange at SR 99/ Route 219 (Kie Construction of auxiliary lanes in both NB and SB direct from Kiernan Ave to Pelandale Ave		
	Date Signed Date Signed Date Signed	RECONRED	GECOMMENDED	NOT APPLICABLE	BEES Item No.	COMMENTS	JTEM COST	REQUIRED IN SPEC
1.1 Broch 1.2 Media 1.3 Paid 1.4 Public 1.5 Public 1.6 Proje 1.7 Intern 1.8 Local 1.9 Notific (i.e. bic	formation Strategies formation Strategies formation Strategies formation Center formation C	X X X X	X X X		066063 066063	RE to hand-deliver to business/residences. See comments below. Designer to add to budget if public meeting is added. Designer to verify impacted groups. Web page could be linked to local City pg. Items 1.1 to 1.11 to be handled by CT PIO.	SEOK	
1.12 Cons	ultant Public Information Office	Ź			066063	If Caltrans PIO not used	\$50K \$125K	
1.13 Other	nformation Strategies	<u></u>	<u> </u>	X	11 			Ļ
2.1 Chan- 2.2 Chan- 2.3 Speci 2.4 Trave 2.5 Highw 2.6 Rada- 2.7 Traffic 2.8 Revis 2.9 Bicycl 2.10 Other 3.0 Incident M 3.1 COZE 3.2 Freew	geable Message Signs (permanent) geable Message Signs (portable) al Construction Signs ler Information Systems (CHIN/Internet) yay Advisory Radio "HAR" (fixed or mobile) r Speed Sign c Management Team ed Transit Schedules/ Maps le community information item Management EP yay Service Patrol (tow truck service patrol)	X X X	X	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	066062 066065	See comments below 1 pair cms (19 mo.) (3.5k/mo.) = \$66.5k As required, As needed Same as Item 1.9. 2 chp (10 hr) (\$90/hr) (250 days) = \$450k	\$67K	X
3.4 Trans 3.5 Traffic 3.6 Traffic 3.7 On-sit 3.8 Other 4.0 Construct	ion Strategies		x	X X X	V668/6.	Existing to remain &/or provide new stations. RE to notify for incident & status closure. TMC will contact TMT as needed.		
4.2 Night 4.3 Week 4.4 Exten 4.5 Plann 4.6 Plann 4.7 Total 4.8 Projec 4.9 Truck 4.10 Reduc 4.11 Temp 4.12 Temp 4.13 Reduc	end Work ded Weekend Closures ed Lane Closures ed Ramp Closures/Connector Closure Facility Closure	X		XXX	129000	Per Lane Closure Charts Per Lane Closure Charts As per stage construction if any. Per drawings/data sheet if any. As necessary.	TBD	X X X X X X X X

		REQUIRED	RECOMMENDED	NOT APPLICABLE	BEES Item No.		ІТЕМ	REQUIRED IN SPEC.
4.0	Construction Strategies (Continued)	~~~ <u>~</u>		2	ļ	COMMENTS	COST	₩ <u>₹</u>
	4.15 Contingency Plans	X	 	7	***************************************	the control of the co		X
	4.15.1 Material Plant on standby 4.15.2 Extra Critical Equipment on site	X	├-	X		WWW. The transportation of the state of the	-	ļ
	4.15.3 Material Testing Plan	1	 	х		in a second of the second of t	 	-
	4.15.4 Alternate Material on site	-	-	X	- minning percent	And the state of the second of	_	ļ.,
	(In case of failure or major delays)	-	<u></u>	L	in	And the second s	ļ	ļ
	4.15.5 Emergency Detour Plan	x	T	·	ļ			-
	4.15.6 Emergency Notification Plan		-	х		And the second s	<u> </u>	-
	4.15.7 Weather Conditions Plan	х	-	12		and the second control of the second control		-
	4.15.8 Delay Timing and Documentation Plan	X	-	-	.	and the state of t		-
	4.15.9 Late Closure Reopening Notification	X	T		İ	terrence and the contract of t		
	4.16 Signal timing modification	X						
	4.17 Coordination with adjacent construction	х		-	07850	RE to confirm prior to scheduling of closures.	***************************************	Х
	4.18 Double Fine Zone (signs)	X			en energy and			X
	4.19 Right of Way Delay	X		-	066022	Designer to determine costs for maintaining traffic	TBD	X
	4.20 Other Items	X				See comments below.	1 447 647	X
50	Demand Management		£				 	
J.U	5.1 HOV Lanes/Ramps	ſ	T 1	χ	T		T	F
	5.2 Ramp metering	-	X	_^				-
	5.3 Park-and-Ride Lots	-		х		See comments below.		-
	5.4 Parking Management/Pricing	-	-	Ŷ				-
	5.5 Rideshare Incentives	-		x				
	5.6 Rideshare Marketing	H	-	X	066069	terren andre and the second the second three three control of the second second three thre		
	5.7 Transit, Train, or Light-Rail Incentives	-		X	066066			
	5.8 Transit Service Modification	-		X		e open producer e en ser a ser en		
	5.9 Variable Work Hours	-		X		and the same of th		<u> </u>
	5.10 Telecommute	-		Х	!			-
	5.11 Other Items	-		X		The second secon		
6.0	Alternate Route Strategies	**********	***********					السيسييين
0.0	6.1 Ramp Closures		Ė	Х	<u> </u>		T I	-
	6.2 Street Improvements	-		X		ter entre de distançation en entre en	-	
	6.3 Reversible Lanes	-		X	•	and the state of t		i
	6.4 Temporary Lanes or Shoulders Use	-	7.00	X			-	
	6.5 Freeway to freeway connector closures	-		х	* *************************************	en in a sum and the sum of the su		
7.0	Other Strategies		***************************************	*	f	·		لبسسسم
1	7.1 Application of new technology			х			Г Т	أبنسن
	7.2 Other Items	-		X		terreturne 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
	1.2 Onici Rema	لسسنا		لنث	L:		L1	لــــــا
Com	ments:							
	Plan, progress/completion information should be available at	Loca	ı Pı	ildu	c Works	Chamber of Commerce Offices, and CT Maintenance Offi	Ces	
1.9	Impacted groups need to be notified and informed about upo	omin	gc	ons	struction	During construction, access across job site will be needed	j	** *
	PIO estimated at \$2k/mo. Or per stage construction or per m						i si di	Application of
	Consultant PIO estimated at \$5k/mo		والمراجات		gypagaga sajirila sa		ela yanzan	
	Consult with 315 program advisor in regards to ITS elements		4 - 41	4.0	in de la companione de la La companione de la compa			wasio ilian.
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	RE/Inspector shall maintain access to all business & residen Consult with 315 program advisor in regards to ITS elements		ıı all	um	ies.			
S.EU	Coursely with 614 bindican consoling reduce to 110 elements	*						
Appr	oved by:							
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- of these special provisions for additional closure restrictions. Traffic shall utilize next off-ramp.
- 3. Closures of local roads will require City/County concurrence.
- 4. Opposing Ramps at the same location shall not be closed concurrently

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Traffic shall utilize next off-ramp.

3. Closures of local roads will require City/County concurrence.

4. Opposing Ramps at the same location shall not be closed concurrently

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- of these special provisions for additional closure restrictions.
- Traffic shall utilize next off-ramp. 3. Closures of local roads will require City/County concurrence.
- 4. Opposing Ramps at the same location shall not be closed concurrently

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- See Lane Closure Restriction for Designated Legal Holidays and Special Days table in Maintain Traffic of these special provisions for additional closure restrictions.
- 2. Traffic shall utilize next off-ramp.
- 3. Closures of local roads will require City/County concurrence.
- 4. Opposing Ramps at the same location shall not be closed concurrently

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- of these special provisions for additional closure restrictions.
- 7-day advance notice required.
- 3. Detour required.
- 4. Closures of local roads will require City/County concurrence.
- 5. Northbound and Southbound Shall not be closed simultaneously



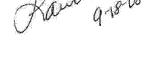
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- See Lane Closure Restriction for Designated Legal Holidays and Special Days table in Maintain Traffic
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(Attn OE Reviewer: Use in Dist 10 projects only)

{XE "12-128_E_A03-16-07"} Page 1 of 1

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Add to the end of SSP 12-100. Consult with the District Traffic Managers for editing of this table.

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Preliminary Environmental Analysis Report

Project Information

District 10 County Stanislaus Route 99 Post Mile 21.9/23.3 EA OL330K

Project Title: Kiernan Avenue (State Route 219)/State Route 99 Interchange Reconstruction Project

Christina Hibbard, Caltrans District 10 Project Manager

Phone # (209) 942-6023

Martha Dadala, Rajappan & Meyer Consulting Engineers Design Engineer

Phone # (408) 280-2772

Environmental Manager Gail Miller

Phone # (559) 243-8274

Environmental Planner Generalist Raychel Skeen

Phone # (559) 243-8266

Project Description

Purpose and Need: The purpose of the project is to expand the interchange to better accommodate projected vehicular, pedestrian, and bicycle traffic from implementation of planned housing and business development in the Salida Community Plan Area, Figure 1 describes Regional Vicinity and Project Location. Interchange improvements will be sized to accommodate the traffic anticipated from a 6-lane expressway connection at Kiernan Avenue. Kiernan Avenue, which also serves as State Route 219, is currently programmed for a 4-lane conventional highway within an ultimate 6-lane right-of-way. The need of the project is due to anticipated congestion an inadequacy of the existing interchange to accommodate future traffic needs.

Description of work: The proposed project involves reconstruction of the existing interchange including the overcrossing, on and off-ramps, and roadway segments within the interchange area. On and off-ramps will be widened to accommodate greater traffic volumes entering and exiting the mainline. The existing interchange does not provide adequate vertical clearance (16.5 feet) over State Route 99. This design deficiency will be resolved with the project. The new bridge overcrossing will have a cross section that conforms with the future Kiernan Avenue designation. Additional improvements will be required on the local roadway system to serve local motorists.

It should be noted that the County is planning to widen Kiernan Avenue (State Route 219) as a separate project. This action involves widening of Kiernan Avenue to the east as a major arterial to serve new growth. The roadway is functionally classified as a Major Collector,

Two alternatives plus the No Build alternative are being considered for reconstruction of the proposed interchange. For each alternative on ramps would include provisions for ramp metering and highoccupancy-vehicle bypass lanes as well as auxiliary lanes between Kiernan Avenue and Pelandale

Alternative 1 is a modified Compact Diamond interchange. In this alternative, the existing interchange

ramps, local roads and the ramp and local intersections are proposed to be widened, maintaining their current general configuration as a Compact Diamond interchange. The concept improvement plan is shown in Figure 2.

Changes to the Kiernan Avenue would include construction of a new bridge to a higher profile to accommodate six 12-foot through lanes, four 12-foot turning lanes, a 4-foot median, and 8-foot shoulders and 10-foot sidewalks on either side of the street. This alternative would completely replace the existing Kiernan Avenue overcrossing structure. The new structure would resolve the existing vertical clearance requirements over Route 99.

The intersections at Broadway/Salida Boulevard and Kiernan Avenue/Sisk Road would be widened and remain signalized. Auxiliary lanes are also proposed on Route 99 from Kiernan Avenue to Pelandale Avenue.

Dual left turn lanes would be provided from Kiernan Avenue to each on-ramp. Both on-ramps would be single lane entrance ramps, providing two metered lanes plus one un-metered high-occupancy-vehicle bypass lane on each ramp. The southbound off-ramp at Kiernan Avenue would be a standard two-lane exit ramp with a 1300 foot long auxiliary lane, widened to four lanes with three left turn lanes at the ramp terminus. The northbound off-ramp would also be a two-lane exit ramp, with a single left turn lane and free right turn lane at the ramp terminus.

Alternative 2 is a Hybrid (Type L-1 and L-6) interchange. This alternative would be similar to Alternative 1 in the northbound direction, but would remove the existing southbound ramps and construct new southbound braided buttonhook ramps with access to and from Salida Boulevard. The new southbound buttonhook entrance ramp would be connected to Salida Boulevard north of the Broadway Avenue/Salida Boulevard intersection and would provide 2 lanes (1 high-occupancy-vehicle bypass lane + 1 mixed flow lane) and provision for ramp metering, tapering to a single entrance ramp to southbound Route 99. The southbound buttonhook exit ramp would be connected to Salida Boulevard, south of Broadway Avenue/Salida Boulevard Intersection, and would be a 2-lane exit from the freeway. The southbound off-ramp would be designed as an undercrossing of the auxiliary lanes in both directions on Route 99 between Kiernan Avenue and Pelandale Avenue interchanges, would be the same as Alternative 1. The proposed improvements are shown in Figure 3.

The No Build alternative will also be considered. No new interchange improvements would occur with this alternative and the interchange would become a traffic bottleneck for motorists accessing State Route 99 or to simply cross the mainline. None of the local roadway improvements would occur that are intended to facilitate traffic circulation. Unacceptable levels of service would occur and the interchange would not accommodate predicted traffic volumes.

The project is anticipated to be funded by a combination of Public Facility Fee (PFF), future sales tax revenue and funding from the State Transportation Improvement Program (STIP). Stanislaus County has adopted and has already collected some traffic mitigation funds through City/County Transportation Facilities Public Facility Fee (PFF) program. The anticipated total collection through the PFF is \$50 million in 2007 dollars this project, as shown in the Stanislaus County Impact Fee Update Study, completed in September 2008. The county will pursue STIP funding construction phases to cover any shortfalls.

Anticipated Environmental Approval

CEQA	NEPA,
Categorical Exemption/Statutory Exemption	☐Categorical Exclusion/Programmatic CE ☐Finding of No Significant Impact
⊠Negative Declaration/Mitigated ND ☐ Environmental Impact Report	Environmental Impact Statement

PSR Summary Statement

The anticipated document for the proposed project is an Initial Study/Mitigated Negative Declaration for the California Environmental Quality Act and an Environmental Assessment/Finding of No Significant Impact for the National Environmental Policy Act. Caltrans would be the lead agency for the purposes of both the California Environmental Quality Act and the National Environmental Policy Act. Under the provisions established by the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU), Caltrans has been delegated authority to review and approve the NEPA process by the Federal Highway Administration (FHWA). Accordingly, on behalf of FHWA, Caltrans will serve as the lead agency for NEPA. Environmental review is expected to start in January 2009 and should be concluded by August 2010. It is estimated that it would take 2,400 – 2,600 person hours to complete the identified tasks in this report. The major environmental issues to be addressed include community impacts, noise, air quality, cultural resources, drainage, hazardous waste/materials, visual and farmland.

Assumptions and Risks

Assumptions:

- Scope as defined in current build alternatives
- New right-of-way acquisition from 4.6 acres (affecting 10 parcels) to 10.45 acres (affecting 11 parcels) will be required for the proposed project, depending on alternative.
- Federal Funding
- Biological Resources:
 - Mitigation for oak trees
- Cultural resources:
 - ASR, Extended Phase I, Archaeological Evaluation Report (AER), HRER, HPSR will be completed. If no resources are determined eligible this portion of the Section 106 process will require six months to complete.
 - o Five cultural resources will require formal evaluation (including 2 buildings)
 - o If resources are determined eligible, a Finding of Effect (FOE) will be required. If impacts are adverse a Memorandum of Agreement (MOA) and Historic Property Treatment Plan (HPTP) will address mitigation requirements. As a result of multi-agency participation, this portion of the Section 106 process can take an additional six months.
 - Native American consulting parties do not object to methods/findings.
- No hazardous waste issues.
- No cumulative impacts associated with traffic congestion.
- · No visual impacts.
- No air quality impact due to carbon dioxide.
- No Federally listed special status species.
- No waters of the U.S.
- No regulatory permits.

Risks:

- Moderate Probability/High Impact: Design plans change to include activities not currently identified in the request (November 2008) would increase project costs and schedule delay for cultural resources (1 additional year).
- Low Probability/High Impact: If additional archaeological or architectural properties requiring evaluation were identified in the APE, then increased project costs and schedule delay (up to 1 year) would occur.
 - Low Probability/High Impact: FHWA/SHPO disagrees with effects finding and require extended MOA consultation, then increased project costs and schedule delay (up to 6 months) would occur.
 - Low Probability/High Impact: Significant Native American controversy would increase costs and delay schedule 6 months to 1 year.
 - Low Probability/High Impact: If unforeseen issues of hazardous waste, visual, air quality, or cumulative impacts due to traffic are encountered, then increased project costs, schedule delay (up to 6 months) would occur.
 - Low Probability/Moderate Risk: Significant public controversy necessitating a public meeting would add 4-6 months to schedule.
 - Moderate Probability/High Impact: Business and/or residential displacements could involve litigation due to disagreement in compensation allowances. Delay of up to 1 year or more could occur if litigated.

Mitigation

Mitigation estimates are based on preliminary studies from the proposed project and without necessary concurrence from federal resource agencies. Therefore, final mitigation costs may vary from those provided in this document.

Right of Way Capital (050) Total: \$ 120,000

\$120,000 for mitigation banks for loss of habitat including oak trees

Construction Capital (042) Total: \$ 130,000

\$110,000 for cultural resources mitigation

\$10,000 for paleontology mitigation

\$10,000 for hazardous materials mitigation

Costs for displacement of residences and businesses are not included in this document.

10-0L320K

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.

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delit in mines	iaid	Date	: 1/12/09
Project Manager			

Environmental Technical Reports or Studies Required

	Study	Document	N/A
Community Impact Study Farmland Section 4(f) Evaluation Visual Resources Water Quality Floodplain Evaluation Noise Study Air Quality Study Paleontology			
Wild and Scenic River Consistency Cumulative Impacts			
Cultural ASR HRER HPSR Section 106 SHPO Concurrence Native American Coordination Finding of Effect Data Recovery Plan			
Hazardous Waste ISA (Additional) PSI Other			
Biological Endangered Species (Federal) Endangered Species (State) Species of Concern (CNPS, USFS, BLM, S, F) Biological Assessment (USFWS, NMFS, State) Wetlands Invasive Species Natural Environment Study NEPA 404 Coordination Other			
Permits 401 Permit Coordination 404 Permit Coordination (NW) 1600 SAA Coordination City/County Coastal Permit Coordination State Coastal Permit Coordination NPDES Coordination US Coast Guard (Section 10) State 2081 Permit			

Discussion of Technical Review

Socio-economic and Community Effects

The project is expected to directly affect the local community and economy both in the short term and long term due to the loss of business, commercial, and residential areas because of project design. Interchange reconstruction will encroach into business and commercial areas as needed to widen Kiernan Avenue. Proposed improvements, irrespective of the alternatives, cause direct effects to an established neighborhood north of the Kiernan Avenue/Sisk Road intersection. A Community Impact Assessment is required to analyze the project's effects on the existing community, including the potential Environmental Justice concerns. Also, a Relocation Impact Report will be needed to determine new locations for displaced businesses and residents. This may take an estimated 4-5 months for completion. No additional permits or agency coordination required.

On the east side of the project area, farmlands could be affected by the widening of Kiernan Avenue in the vicinity of Sisk Road. In this area, an almond orchard is located on the southeast corner of the existing Kiernan Avenue/Sisk Road intersection. Approximately 40-50 trees in the orehard could be impacted due to widening of Sisk Road. Widening of the existing Kiernan Avenue/Sisk Road intersection could affect fallow farmland to the north. A Farmland Conversion Impact Rating Form will be prepared and submitted to the Natural Resources Conservation Service to determine the effects from loss of farmlands due to the project, if the initial rating exceeds 160 points. This may take an estimated 2-3 months for completion. No additional permits or agency coordination required.

Section 4(f) Impacts

(Not Applicable) The project is not expected to have 4(f) issues as a result of any temporary or permanent impacts on recreational facilities. No additional permits or agency coordination required.

Visual Effects

There are no existing designated visual or scenic resources present within or adjacent to the project area. Tree losses within the interchange area and along roadways in the agricultural areas are expected due to the development of the support roadway network. Accordingly, a Scenic Resources Evaluation should be prepared to document the roadway network. As no scenic resources are expected in the project area, it is anticipated that further visual studies (i.e. Visual Impact Assessment) will not be recommended. This may take an estimated 3-6 weeks for completion. No additional permits or agency coordination required.

Water Quality and Erosion

(Not Applicable) The site is not expected to have any unusual water quality problems. No water resources are located within the project area that might be affected over both the long and/or short term by erosion or runoff from new roadway surfaces and/or construction activities. No additional permits or agency coordination required.

Floodplain

(Not Applicable) The project site is not located within the 100-year floodplain, and has no unusual flood or drainage issues. No additional permits or agency coordination required. It should be noted that additional runoff will be generated resulting in the need to provide on-site detention. Also, the existing pump station serving State Route 99 must be relocated to accommodate new interchange geometry.

Air

Potential short term air quality issues are expected from construction activities of the interchange. Standard dust control measures and compliance with San Joaquin Valley Air Pollution Control District rules and regulations will be required during construction. An air quality analysis will be required to determine both the short term and/or long term project-specific impacts, conformity, and mitigation. This may take an estimated 6-8 weeks for completion. Coordination will be required with San Joaquin COG and Caltrans regarding air quality conformity consultation processes. The air quality conformity analysis must identify the status of this project as a potential project of air quality concern. No permits are needed for this process.

Noise

Potential short term noise issues are expected from construction activities of the interchange. For noise, while the existing interchange does not have any affect on existing sensitive receptors, the new interchange, including the support circulation network, could have a long term noise impacts on existing and future residential and commercial business uses. An Acoustical Analysis will be prepared to identify any potential short term and/or long term impacts associated with the project. This may take an estimated 6-8 weeks for completion. If attenuation is required a Noise Abatement Decision Report will be required to accept the mitigation recommendations. No additional permits or agency coordination required.

Wild and Scenic River

(Not Applicable) The nearby Stanislaus River is a not federally designated wild and scenic river. The interchange reconstruction will have no direct effect on the river. No additional permits or agency coordination required.

Paleontology

The project area has the potential to contain Pleistocene sediments located within the Modesto Formation. Moderately developed Holocene soils overlying the Pleistocene deposits and the potential need for drainage basins within the project area suggest a potential for encountering paleontological resources during construction/earth moving activities. A Paleontological Identification Report (PIR) would be prepared and certified by a qualified paleontologist to document the identification efforts for paleontological resources and the need for paleontological monitoring during construction activities based on project design. If paleontological resources are identified during construction monitoring, a Paleontological Evaluation Report (PER) will be prepared by a qualified paleontologist to evaluate the significance of the paleontological resource within the project area. The PER would address avoidance of resources and the mitigation requirements for paleontological resources occurring within the project area. This may take an estimated 3 months for completion. No additional permits or agency coordination required.

Cultural Resources

Research on previous cultural studies conducted in the area identified four cultural resources that will require evaluation for eligibility for listing in the National Register, if the final Area of Potential Effect boundary includes these resources. As a result of potential sources for federal funding, cultural resource studies would be needed to address requirements of Section 106 of the National Historic Preservation Act, in accordance with the Programmatic Agreement among the Federal Highway Administration, the Advisory Council on Historic Preservation, the California State Historic Preservation Officer, and Caltrans regarding Compliance with Section 106 of the National Historic Preservation Act (Caltrans 2004). The proposed Area of Potential Effect must include all access roads, work areas, and staging areas beyond the existing paved highway.

Findings of the HRER/ASR will be presented in the HPSR. A Finding of Effect (FOE) will be required to evaluate the project's impact on National Register eligible properties. If eligible cultural

resources are not impacted by the project, the project's Section 106 responsibilities would be fulfilled. This portion of the Section 106 process may take up to six months to complete. Any subsequent changes in project scope may require additional archaeological or historical review. No additional permits or agency coordination required. Coordination may be required with SHPO if eligible resources are impacted.

Native American Coordination

On May 5, 2008, LSA sent a letter with maps depicting the project area to the Native American Heritage Commission (NAHC) in Sacramento asking the commission to review their sacred lands file for any Native American cultural resources that might be affected by the project. A fax from a NAHC Program Analyst informed LSA that a review of the Sacred Lands File did not "indicate the presence of Native American cultural resources in the immediate project area." A list of Native American contacts was also provided. Those from the list have been contacted and no concerns were identified. No additional permits or agency coordination required.

Hazardous Waste/Materials

An Initial Site Assessment (ISA) has been conducted for the proposed interchange reconstruction. The ISA included a government records search and a site survey for potential hazardous wastes and materials. There is some evidence for current contamination from existing or past land uses, activities or operations, which would present potential hazards for construction workers. The site survey determined that reflective paint was used on the Union Pacific Railroad bridge overcrossing (south side only) that could contain lead. Hazardous thermoplastic striping material has been used to designate travel lanes. Removal and disposal of the striping must be conducted in accordance with applicable safety laws and regulations. Testing for lead in the reflective paint and the potential for hazardous waste is required. The project extends through right-of-way utilized by Union Pacific Railroad. Testing to ensure that the agricultural lands do not contain hazardous wastes from agricultural practices or UPRR lands will be required. The risk ranking for the interchange is considered low.

Studies for aerially deposited lead (ADL) will be conducted prior to construction activities. If naturally Occurring Asbestos (NOA) is suspected, testing will also be conducted. Measures will be identified to protect the health and safety of construction workers. This may take an estimated 4-5 months for completion. No additional permits or agency coordination required.

Biological Resources

The project may have a short term and/or long term affect sensitive biological resources. The existing SR-99 bridge should be inspected for the presence/absence of bats, nesting swallows, and other protected species. Burrowing owls could be present and raptors (including Swainson's hawk) could forage within the agricultural lands that will be affected by developing the support roadway network. Impacts to burrowing owls were addressed in the State Route 219 Widening Project; preconstruction surveys and avoidance measures were recommended. However, the State Route 219 Widening Project did not consider impacts relating to improvements along Sisk Road. Loss of tree resources in this area could also affect nesting birds. Bird and bat surveys should be completed in the spring/summer season. If surveys find that the project has the potential to affect sensitive biological resources then coordination with CDFG would be required. The California Natural Diversity Data Base does not indicate any other known sensitive biological resources in this location. There are no known sensitive plant species in this location. Avoidance and minimization measures may be required, as well as potential mitigation for oak tree loss in the interchange area. Impacts to federally listed species are not anticipated. The project has potential seasonal constraints. A work window may be enforced as avoidance for nesting swallows or other birds during the nesting season (March 1 through August 31). This may take an estimated 2-3 months for completion. No additional permits

November 25, 2008

required. A Natural Environment Study - Minimal Impact may provide an appropriate level of biological analysis to address site resources.

Wetlands

Based on reconnaissance level field review, it appears that no wetlands are present within the project boundary that are subject to Army Corps of Engineers jurisdiction. No agency permits are required.

Invasive Pest Plant Species

Executive Order 13112 requires that any federal action may not cause or promote the spread or introduction of invasive species. This project will use machinery capable of transporting invasive plant species on and off the project site. To avoid spreading invasive plant species all earthmoving and seeding equipment will be thoroughly washed before entered the site and prior to leaving. No additional permits or agency coordination required.

Right-of-Way Relocation or Staging Area

New Right-of-Way will be required for this project. It is expected that staging will occur primarily within the open areas of the existing interchange, although some adjacent lands may also be required. Material sites and disposal sites are indicated, but not identified. Areas of right-of-way acquisition and staging areas will require complete environmental evaluation as part of this project. No additional permits or agency coordination required.

<u>Permits</u>

(Not Applicable) Permits from the State Department of Fish and Game (1602), U. S. Army Corps of Engineers (Section 404), U.S. Coast Guard (Section 10), and the Regional Water Quality Control Board (Section 401) will not be required. There are no lands or waters within the project area considered jurisdictional by these agencies. Additional permits for the material site and disposal site (if required) may be necessary.

Coastal Zone

(Not Applicable)

List of Preparers

LSA Associates, Inc.

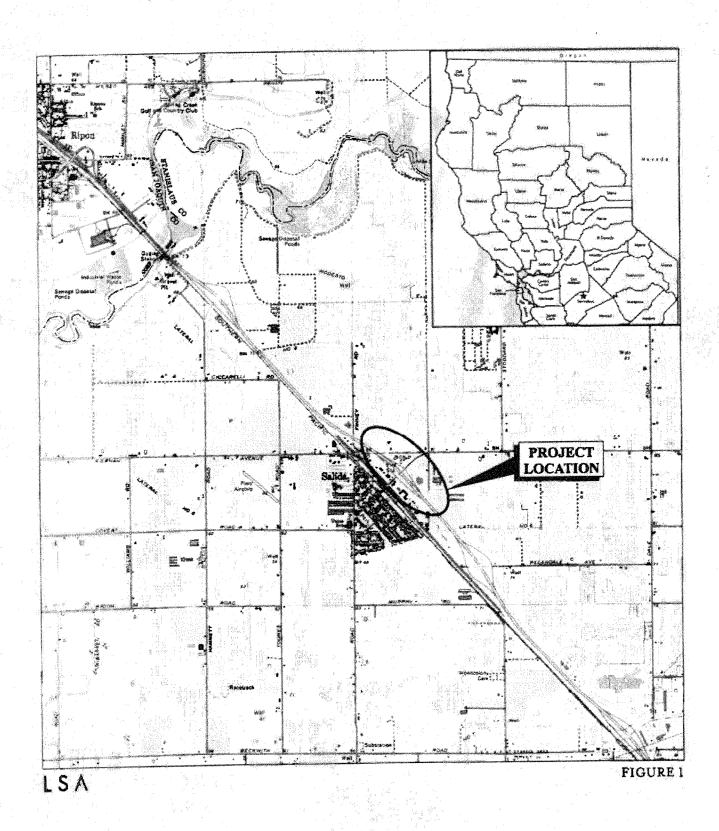
Bill Mayer, Principal: Preliminary Environmental Assessment Report documentation, hazardous waste/materials research; project management

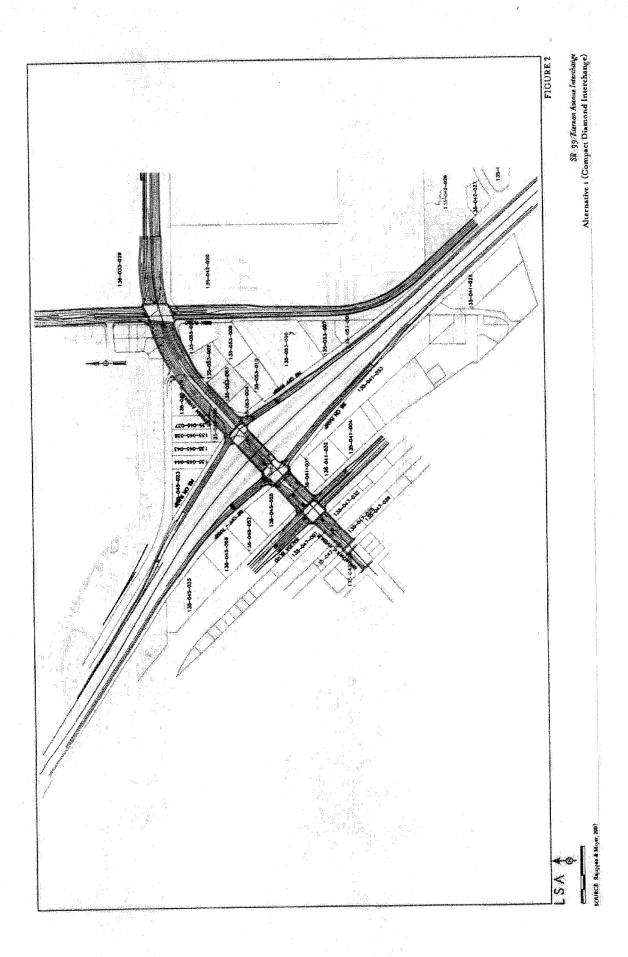
Amberly Morgan, Assistant Environmental Planner: Preliminary Environmental Assessment Report documentation

Mike Trueblood, Assistant Biologist: Biological documentation Neal Kaptain, Archaeologist: Cultural resource documentation

Karin Goetter, Archaeologist: Cultural and paleontological resources documentation

Hazardous Waste Review by: Bill Mayer, Principal	Date 2004
Biological Review by: Mike Trueblood, Assistant Biologist	Date 2007
Cultural Review by: Neal Kaptain, Archaeologist	Date 2004
Cultural/Paleontology Review: Karin Goetter, Archaeologist	Date 2008
Community Impact Review by: Bill Mayer, Principal	Date 2008
Visual Review by: Bill Mayer, Principal	Date 2008
Floodplain Review by: Bill Mayer, Principal	Date 2008





November 25, 2008

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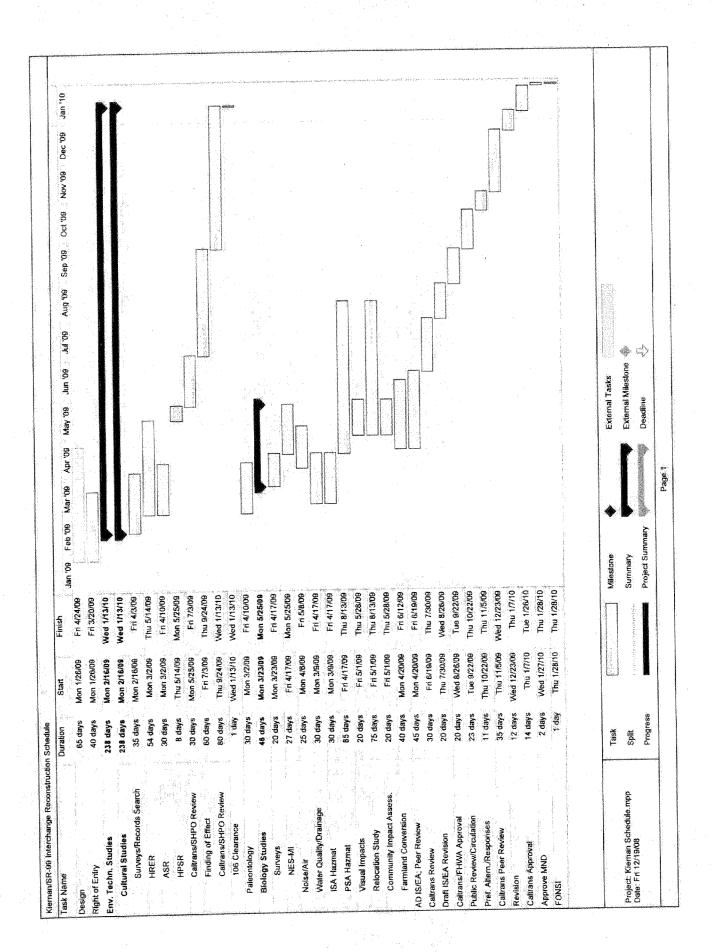
ATTACHMENT A – RESOURCES BY WORK BREAKDOWN STRUCTURE CODE

ATTACHMENT A - Resources by WBS Code

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ATTACHMENT B - PROJECT TIMELINE



ATTACHMENT I DRAFT COOPERATIVE AGREEMENT

10-STA-99 PM 22.3/22.7 SR 99/Kiernan Rd Interchange Project EA: 10-0L330K District Agreement No. 10-312

COOPERATIVE AGREEMENT

THIS AGREEMENT, ENTERED INTO EFFECTIVE ON _______, 2008, is between the STATE OF CALIFORNIA, acting by and through its Department of Transportation, referred to herein as "STATE", and the

COUNTY OF STANISLAUS, a political subdivision of the State of California, referred to herein as "COUNTY".

RECITALS

- 1. STATE and COUNTY, pursuant to Streets and Highways Code sections 114 and 130, are authorized to enter into a Cooperative Agreement for improvements to the State Highway System (SHS) within COUNTY's jurisdiction.
- 2. COUNTY intends to reconstruct the interchange at State Route (SR) 99/Kiernan Road in and near the City of Salida, in Stanislaus County, referred to herein as "PROJECT"
- 3. COUNTY is willing to fund one hundred percent (100%) of costs, except that the costs of STATE's Independent Quality Assurance (IQA) of PROJECT Project Approval and Environmental Document (PA&ED) hereinafter referred to as WORK, and STATE's costs incurred as the California Environmental Quality Act (CEQA) Lead Agency and National Environmental Policy Act (NEPA) Lead Agency, if applicable, in the review, comment, and approval of the PROJECT environmental documentation prepared entirely by COUNTY, will be borne by STATE.
- 4. STATE funds will not be used to finance any of the WORK costs except as set forth in this Agreement.
- 5. The terms of this Agreement shall supersede any inconsistent terms of any prior Memorandum of Understanding (MOU) or agreement relating to PROJECT.
- 6. PROJECT Plans, Specifications and Estimates (PS&E), Right of Way (R/W), landscape maintenance and construction will be the subject of a separate future agreement or agreements.
- 7. This Agreement will define roles and responsibilities of the CEQA Lead Agency and CEQA Responsible Agency regarding environmental documentation, studies, and reports necessary for compliance with CEQA. This Agreement will also define roles and responsibilities for compliance with NEPA, if applicable.
- 8. The parties now define herein below the terms and conditions under which PROJECT is to be developed and financed.

SECTION I

COUNTY AGREES:

- 1. To fund one hundred percent (100%) of all WORK costs except for costs of STATE's IQA and STATE's review and approval of the PROJECT environmental documentation for CEQA and NEPA, if applicable.
- 2. To not use STATE funds for any WORK costs except as set forth in this Agreement.

- 3. All PROJECT work performed by COUNTY, or performed on COUNTY's behalf, shall be performed in accordance with all State and Federal laws, regulations, policies, procedures, directives and standards that STATE would normally follow. All such PROJECT work shall be submitted to STATE for STATE's review, comment, concurrence, and approval at appropriate stages of development.
- 4. All PROJECT work, except as set forth in this Agreement, is to be performed by COUNTY. Should COUNTY request that STATE perform any portion of PROJECT work, except as otherwise set forth in this Agreement, COUNTY shall first agree to reimburse STATE for such work pursuant to an amendment to this Agreement or a separate executed Agreement.
- 5. To have a Project Report (PR) prepared, at no cost to STATE, and to submit to STATE for STATE's review and concurrence at appropriate stages of development. The PR for PROJECT shall be signed on behalf of COUNTY by a Civil Engineer registered in the State of California.
- 6. Personnel who prepare the preliminary engineering studies and environmental documentation, including investigative studies and technical environmental reports, shall be made available to STATE, at no cost to STATE, through completion of PROJECT construction to discuss problems, which may arise during PS&E, right of way, and construction phases of the PROJECT, and/or to make design revisions for contract change orders.
- 7. To permit STATE to monitor, participate, and oversee selection of personnel who will prepare the PR, conduct environmental studies and prepare environmental documentation for PROJECT. COUNTY agrees to consider any request by STATE to avoid a contract award or to discontinue services of any personnel considered by STATE to be unqualified on the basis of credentials, professional expertise, failure to perform, and/or other pertinent criteria.
- 8. To make written application to STATE for necessary encroachment permits authorizing entry of COUNTY onto SHS right of way to perform required WORK as more specifically defined elsewhere in this Agreement. COUNTY shall also require COUNTY's consultants and contractors to make written application to STATE for the same necessary encroachment permits.
- 9. To be responsible for, and to the STATE's satisfaction, the investigation of potential hazardous material sites within and outside existing SHS right of way that could impact PROJECT as part of performing any work pursuant to this Agreement. If COUNTY discovers hazardous material or contamination within the PROJECT study area during said investigation, COUNTY shall immediately notify STATE.
- 10. If COUNTY terminates the WORK prior to completion, COUNTY shall also be liable to compensate STATE for all the expenses incurred by STATE with regard to this Agreement.

SECTION II

STATE AGREES:

- 1. At no cost to COUNTY, to complete STATE's review as CEQA Lead Agency and NEPA Lead Agency, if applicable, of the environmental documentation prepared and submitted by COUNTY and to provide IQA of all COUNTY work necessary for completion of the PR for PROJECT done by COUNTY, including, but not limited to, investigation of potential hazardous material sites undertaken by COUNTY or its designee, and provide prompt reviews, comments, concurrence, and/or approvals as appropriate, of submittals by COUNTY, while cooperating in timely processing of documents necessary for completion of the environmental documentation and PR for PROJECT.
- 2. Upon proper application by COUNTY and by COUNTY's contractor, to issue, at no cost to COUNTY and COUNTY's contractor, the necessary encroachment permits for required work within the SHS right of way as more specifically defined elsewhere in this Agreement.

SECTION III

IT IS MUTUALLY AGREED:

- 1. All obligations of STATE under the terms of this Agreement are subject to the appropriation of resources by the Legislature, State Budget Act authority and the allocation of funds by the California Transportation Commission (CTC).
- 2. The parties to this Agreement understand and agree that STATE's IQA is defined as providing STATE policy and procedural guidance through to completion of the PROJECT PA&ED phase administered by COUNTY. This guidance includes prompt reviews by STATE to assure that all work and products delivered or incorporated into the PROJECT by COUNTY conform with then existing STATE standards. IQA does not include any PROJECT related work deemed necessary to actually develop and deliver the PROJECT, nor does it involve any validation to verify and recheck any work performed by COUNTY and/or its consultants or contractors and no liability will be assignable to STATE, its officers and employees by COUNTY under the terms of this Agreement or by third parties by reason of STATE's IQA activities. All work performed by STATE that is not direct IQA shall be chargeable against PROJECT funds as a service for which STATE will invoice its actual costs and COUNTY will pay or authorize STATE to reimburse itself from then available PROJECT funds pursuant to an amendment to this Agreement authorizing such services to be performed by STATE.
- 3. The preparation of environmental documentation, including the related investigative studies and technical environmental reports for PROJECT shall be performed in

accordance with all applicable Federal and STATE standards and practices current as of the date of performance.

4. STATE will be the CEQA Lead Agency and COUNTY will be a CEQA Responsible Agency. STATE will be the NEPA Lead Agency, if applicable. COUNTY will assess PROJECT impacts on the environment and COUNTY will prepare the appropriate level of environmental documentation and necessary associated supporting investigative studies and technical environmental reports in order to meet the requirements of CEQA and if applicable, NEPA. COUNTY will submit to STATE all investigative studies and technical environmental reports for STATE's review, comment, and approval. The environmental document and/or categorical exemption/exclusion determination, including the administrative draft, draft, administrative final, and final environmental documentation, as applicable, will require STATE's review, comment, and approval prior to public availability.

If, during preparation of preliminary engineering, preparation of the PS&E, performance of right of way activities, or performance of PROJECT construction, new information is obtained which requires the preparation of additional environmental documentation to comply with CEQA and if applicable, NEPA, this Agreement will be amended to include completion of those additional tasks by COUNTY.

- 5. COUNTY agrees to obtain, as a PROJECT cost, all necessary PROJECT permits, agreements, and/or approvals from appropriate regulatory agencies, unless the parties agree otherwise in writing. If STATE agrees in writing to obtain said PROJECT permits, agreements, and/or approvals, those said costs shall be a PROJECT cost.
- 6. COUNTY shall be fully responsible for complying with and implementing any and all environmental commitments set forth in the environmental documentation, permits, agreements, and/or environmental approvals for PROJECT. The costs of said compliance and implementation shall be a PROJECT cost.
- 7. If there is a legal challenge to the environmental documentation, including supporting investigative studies and/or technical environmental reports, permits, agreements, environmental commitments and/or environmental approval(s) for PROJECT, all legal costs associated with those said legal challenges shall be a PROJECT cost.
- 8. COUNTY, subject to STATE's prior review and approval, as a PROJECT cost, shall be responsible for preparing, submitting, publicizing and circulating all public notices related to the CEQA environmental process the NEPA, if applicable, environmental process, including, but not limited to, notice(s) of availability of the environmental document and/or determinations and notices of public hearings. Public notices shall comply with all State and Federal laws, regulations, policies and procedures. STATE will work with the appropriate Federal agency to publish notices in the Federal Register, if applicable.

STATE, as a PROJECT cost, shall be responsible for overseeing the planning, scheduling and holding of all public meetings/hearings related to the CEQA environmental process and if applicable, the NEPA environmental process. COUNTY, to the satisfaction of STATE and subject to all of STATE's and FHWA's policies and procedures, shall be responsible for performing the planning, scheduling and details of holding all public meetings/hearings related to the CEQA environmental process and if applicable, the NEPA environmental process. STATE will participate as CEQA Lead Agency and if applicable, the NEPA Lead Agency, in all public meetings/hearings related to the CEQA environmental process and if applicable, the NEPA environmental process, for PROJECT. COUNTY shall provide STATE the opportunity to provide comments on any public meeting/hearing exhibits, handouts or other materials at least ten (10) days prior to any such public meetings/hearings. STATE maintains final editorial control of exhibits, handouts or other materials to be used at public meetings/hearings.

- 9. In the event COUNTY would like to hold separate and/or additional public meetings/hearings regarding the PROJECT, COUNTY must clarify in any meeting/hearing notices, exhibits, handouts or other materials that STATE is the CEQA Lead Agency and if applicable, the NEPA Lead Agency, and COUNTY is the CEQA Responsible Agency. Such notices, handouts and other materials shall also specify that public comments gathered at such meetings/hearings are not part of the CEQA and if applicable, NEPA, public review process. COUNTY shall provide STATE the opportunity to provide comments on any meeting/hearing exhibits, handouts or other materials at least ten (10) days prior to any such meetings/hearings. STATE maintains final editorial control of exhibits, handouts or other materials to be used at public meetings/hearings solely with respect to text or graphics that could lead to public confusion over CEQA and if applicable, NEPA, related roles and responsibilities.
- 10. All administrative reports, studies, materials, and documentation, including, but not limited to, all administrative drafts and administrative finals, relied upon, produced, created or utilized for PROJECT will be held in confidence pursuant to Government Code section 6254.5(e). The parties agree that said material will not be distributed, released or shared with any other organization, person or group other than the parties' employees, agents and consultants whose work requires that access without the prior written approval of the party with the authority to authorize said release and except as required or authorized by statute or pursuant to the terms of this Agreement.
- 11. The party that discovers HM will immediately notify the other party(ies) to this Agreement.

HM-1 is defined as hazardous material (including but not limited to hazardous waste) that requires removal and disposal pursuant to federal or state law, whether it is disturbed by PROJECT or not.

HM-2 is defined as hazardous material (including but not limited to hazardous waste) that may require removal and disposal pursuant to federal or state law, only if disturbed by PROJECT.

- 12. STATE, independent of PROJECT, is responsible for any HM-1 found within existing SHS right of way. STATE will undertake HM-1 management activities with minimum impact to PROJECT schedule and will pay all costs for HM-1 management activities.
 - COUNTY, independent of PROJECT, is responsible for any HM-1 found outside existing SHS right of way. COUNTY will undertake HM-1 management activities with minimum impact to PROJECT schedule and will pay all costs for HM-1 management activities.
- 13. If HM-2 is found within the limits of PROJECT, the public agency responsible for advertisement, award, and administration (AAA) of the PROJECT construction contract will be responsible for HM-2 management activities.
 - Any management activity cost related to HM-2 is a PROJECT construction cost.
- 14. Management activities related to either HM-1 or HM-2 include, without limitation, any necessary manifest requirements and designation of disposal facility.
- 15. STATE's acquisition or acceptance of title to any property on which any hazardous material is found will proceed in accordance with STATE's policy on such acquisition.
- 16. Remedial actions proposed by COUNTY on SHS right of way shall be pre-approved by STATE and shall be performed in accordance with STATE's standards and practices and standards and practices mandated by those Federal and State regulatory agencies.
- 17. A separate Cooperative Agreement or agreements will be required to address and cover responsibilities and funding for PS&E, R/W, landscape maintenance, and the construction phase of PROJECT.
- 18. Nothing within the provisions of this Agreement is intended to create duties or obligations to or rights in third parties not parties to this Agreement or to affect the legal liability of either party to the Agreement by imposing any standard of care with respect to the development, design, construction, operation, or maintenance of the SHS and public facilities different from the standard of care imposed by law.
- 19. Neither STATE nor any officer or employee thereof is responsible for any injury, damage, or liability occurring by reason of anything done or omitted to be done by COUNTY under or in connection with any work, authority, or jurisdiction conferred upon COUNTY or arising under this agreement. It is understood and agreed that, COUNTY will fully defend, indemnify, and save harmless STATE and all of its officers and employees from all claims, suits, or actions of every name, kind and description brought forth under, including, but not limited to, tortious, contractual, inverse condemnation, or other theories or assertions of liability occurring by reason of anything done or omitted to be done by COUNTY under this agreement.

- 20. Neither COUNTY nor any officer or employee thereof is responsible for any injury, damage, or liability occurring by reason of anything done or omitted to be done by STATE under or in connection with any work, authority, or jurisdiction conferred upon STATE or arising under this agreement. It is understood and agreed that, STATE will fully defend, indemnify, and save harmless COUNTY and all of its officers and employees from all claims, suits, or actions of every name, kind and description brought forth under, including, but not limited to, tortious, contractual, inverse condemnation, or other theories or assertions of liability occurring by reason of anything done or omitted to be done by STATE under this agreement.
- 21. Prior to the commencement of any work pursuant to this Agreement, either STATE or COUNTY may terminate this Agreement by written notice to the other party.
- 22. No alteration or variation of the terms of this Agreement shall be valid unless made by a formal amendment executed by the parties hereto and no oral understanding or agreement not incorporated herein shall be binding on any of the parties hereto.
- 23. This Agreement shall terminate upon satisfactory completion of all PROJECT obligations of COUNTY and the delivery of required PA&ED PROJECT documents, with concurrence of STATE, or on January 6, 2015, whichever is earlier in time, except that the ownership, operation, maintenance, indemnification, environmental commitments, legal challenges, and claims articles shall remain in effect until terminated or modified, in writing, by mutual agreement. Should any claims arising out of PROJECT be asserted against one of the parties, the parties agree to extend the fixed termination date of this Agreement, until such time as the PROJECT claims are settled, dismissed or paid.

SIGNATURES ON FOLLOWING PAGE:

STATE OF CALIFORNIA **COUNTY OF STANISLAUS** 1010 Tenth Street Department of Transportation Modesto, CA 95354 WILL KEMPTON Director By: By: KOME AJISE ertini, Vice-Chairman of the Board of Supervisors District Director District 10 CHRISTINE FERRARO TALLMAN Clerk of the Board of Supervisors Approved as to Form and Procedure Approved as to Content MATT MACHADO Department of Transportation Director of Public Works Approved as to Form John P. Doering, County Counsel Certified as to State Funds THOMAS ANNE WELLS

Deputy County Counsel

Certified as to Financial Terms and Conditions

District 10 Budget Manager