

## **Appendix B. Draft 95% Project Plan Sheets**

INDEX OF PLANS

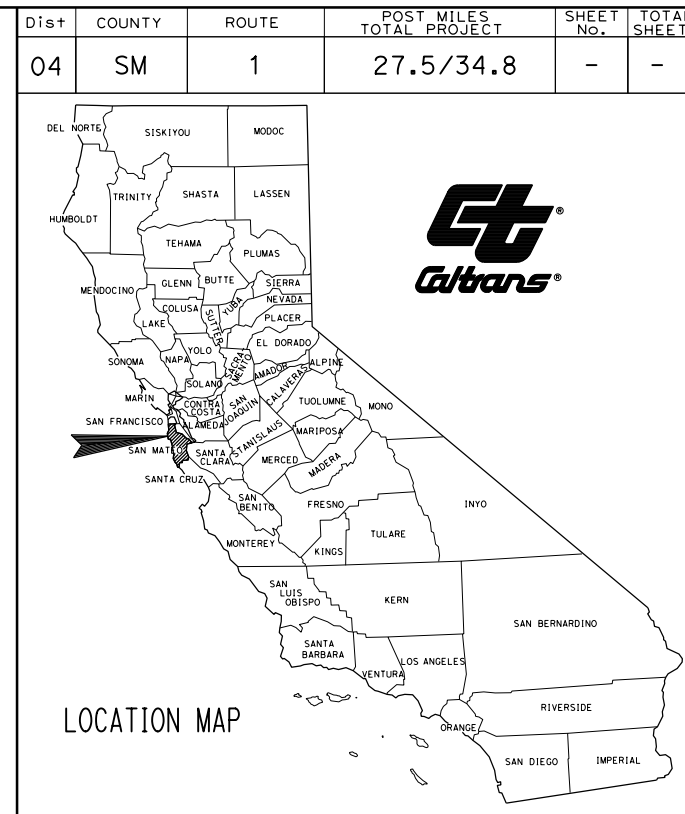
SHEET No. DESCRIPTION

- TITLE SHEET AND LOCATION MAP
- TYPICAL CROSS SECTIONS
- KEY MAP AND LINE INDEX
- PROJECT CONTROL
- LAYOUT
- CONSTRUCTION DETAILS
- TEMPORARY WATER POLLUTION CONTROL PLANS AND QUANTITIES
- DRAINAGE PLANS, PROFILES, DETAILS, AND QUANTITIES
- UTILITY PLANS
- CONSTRUCTION AREA SIGNS
- STAGE CONSTRUCTION AND TRAFFIC HANDLING PLANS, DETAILS, AND QUANTITIES
- PAVEMENT DELINEATION PLANS, DETAILS, AND QUANTITIES
- SIGN PLANS, DETAILS, AND QUANTITIES
- SUMMARY OF QUANTITIES
- EROSION CONTROL PLANS, DETAILS, AND QUANTITIES
- ELECTRICAL PLANS, DETAILS, AND QUANTITIES

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

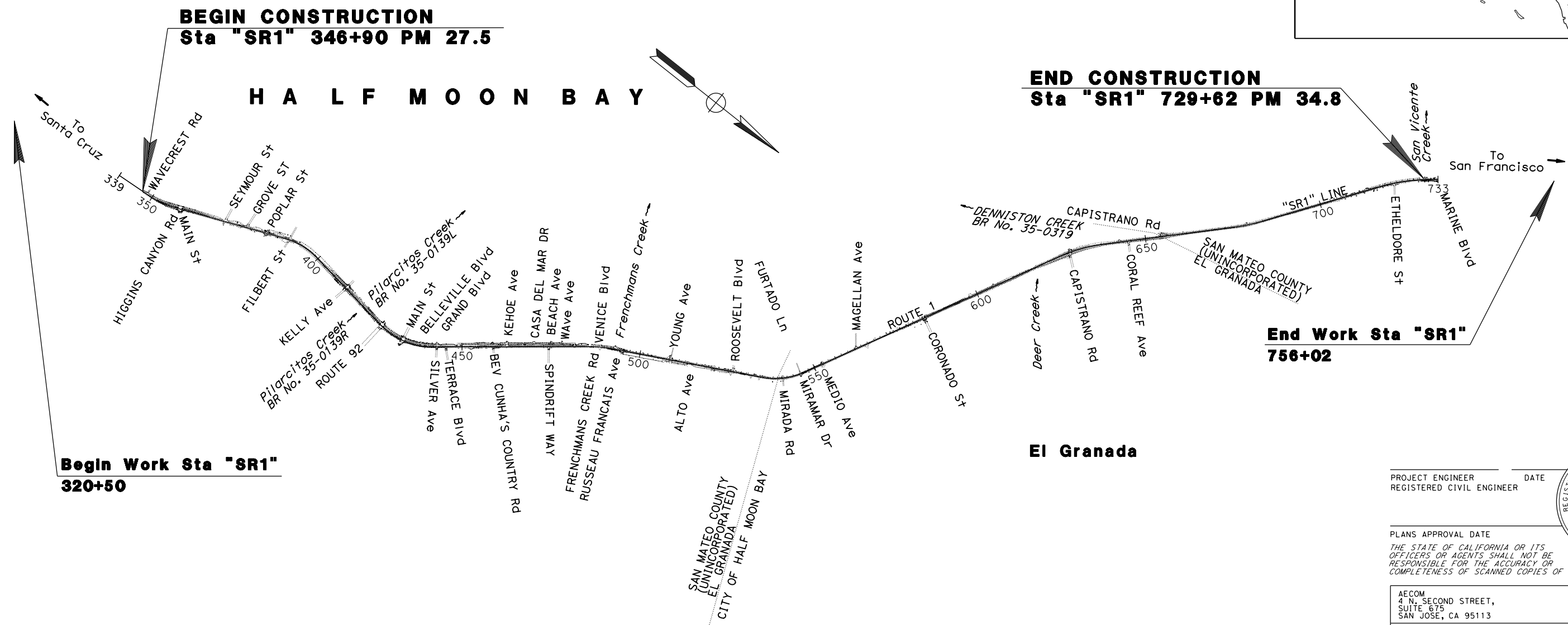
PROJECT PLANS FOR CONSTRUCTION ON  
STATE HIGHWAY  
IN SAN MATEO COUNTY  
IN AND NEAR HALF MOON BAY  
FROM WAVECREST ROAD  
TO 0.1 MILE SOUTH OF MARINE BOULEVARD

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2023



APPROVED AS TO IMPACT ON STATE FACILITIES AND CONFORMANCE WITH APPLICABLE STATE STANDARDS AND PRACTICES AND THAT TECHNICAL OVERSIGHT WAS PERFORMED.

DATE SIGNED: \_\_\_\_\_  
LICENSE Exp DATE: \_\_\_\_\_  
REGISTRATION No.: \_\_\_\_\_  
CALTRANS DESIGN OVERSIGHT APPROVAL: FITSUM WORREDE  
CONSULTANT DESIGN MANAGER: SANG KIM

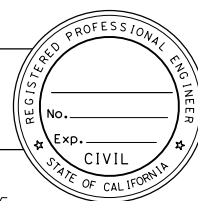


THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

**95% SUBMITTAL  
NOT FOR CONSTRUCTION  
NOVEMBER 3, 2023**

PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_  
REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE \_\_\_\_\_  
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



AECOM  
4 N. SECOND STREET,  
SUITE 675  
SAN JOSE, CA 95113

CONTRACT No. **04-0Q1304**  
PROJECT ID **0418000053**

**NOTES:**

- DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
- EXACT LOCATIONS AND TYPES OF DIKE AND CURB ARE SHOWN ON THE LAYOUTS AND IN THE SUMMARY OF QUANTITIES SHEETS.

**ROUTE 1  
DESIGN DESIGNATION**

ADT (2021)	29,600	D	51.2%
ADT (2026)	31,100	T	5.01%
ADT (2046)	35,600	V	60 mph
DHV <sub>2046</sub>	2,800		
ESAL <sub>20</sub>	4,409,000	TI <sub>20</sub>	10.50
ESAL <sub>40</sub>	9,445,000	TI <sub>40</sub>	12.00

**PAVEMENT CLIMATE REGION**

MEDITERRANEAN

**ABBREVIATIONS:**

BOW BACK OF SIDEWALK  
 RHMA (TYPE G) RUBBERIZED HOT MIX ASPHALT (GAP GRADED)  
 RHMA (TYPE O) RUBBERIZED HOT MIX ASPHALT - OPEN GRADED (OPEN GRADED FRICTION COURSE)

**EXISTING PAVEMENT STRUCTURE SECTIONS:**

- ◊ A TRAVEL LANES AND SHOULDERS  
0.7' TO 1.27' HMA  
1.0' TO 1.25' IMPORTED BASE MATERIAL
- ◊ B MULTIMODAL TRAIL  
0.35' HMA (A)  
0.0' TO 0.5' CI 4 AS
- ◊ C CITY N. MAIN PROJECT LIMIT  
0.1' RHMA (A)  
0.2' RHMA (G)  
0.45' HMA (A)  
1.95' AB

**TYPICAL PAVEMENT STRUCTURE SECTIONS:**

- 1 OVERLAY  
0.35' COLD PLANE AC Pvm+  
0.20' RHMA (TYPE G)  
GEOSYNTHETIC PAVEMENT INTERLAYER (PAVING GRID)  
0.15' HMA (TYPE A)
- 2 MULTI-MODAL TRAIL  
0.10' COLD PLANE AC  
0.10' HMA (TYPE A)
- 3 FULL DEPTH STRUCTURAL SECTION (WIDENING)  
0.10' RHMA (TYPE O)  
0.20' RHMA (TYPE G)  
0.45' HMA (TYPE A)  
1.95' CI 2 AB WITH SUBGRADE ENHANCEMENT GEOGRID
- 4 CURB RAMPS  
0.35' MINOR CONCRETE  
0.35' CI 2 AB
- 5 SIDEWALK  
0.35' MINOR CONCRETE  
0.35' CI 2 AB
- 6 TOP LIFT  
0.10' COLD PLANE AC Pvm+  
0.10' RHMA (TYPE G)
- 7 BUS CONNECTION  
0.10' HMA (TYPE A)
- 8 PILARCITOS CREEK BRIDGE  
0.10' COLD PLANE AC Pvm+  
0.10' POLYESTER CONCRETE OVERLAY

**TYPICAL CROSS SECTIONS  
NO SCALE**

**X-1**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	1	27.5/34.8		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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AECOM  
4 N. SECOND STREET,  
SUITE 675  
SAN JOSE, CA 95113-2254

CALTRANS  
111 GRAND AVENUE  
OAKLAND, CA 94612

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISED BY
	SANG KIM	CHECKED BY	DATE REVISED
		KEVIN KRAMER	
		JASON HOM	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 CONSULTANT FUNCTIONAL SUPERVISOR: SANG KIM  
 CALCULATED/DESIGNED BY: KEVIN KRAMER  
 CHECKED BY: JASON HOM  
 REVISED BY: . . .  
 DATE REVISED: . . .

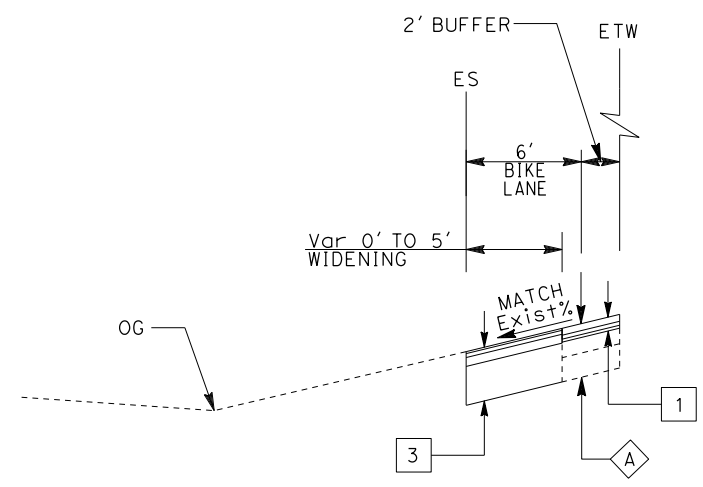
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04	SM	1	27.5/34.8	-	-

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_  
 Sang Kim  
 No. C66289  
 Exp. 06-30-24  
 CIVIL  
 STATE OF CALIFORNIA

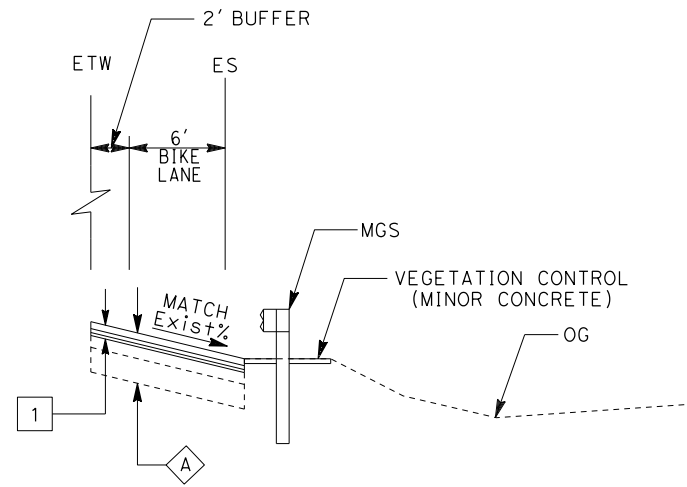
PLANS APPROVAL DATE \_\_\_\_\_

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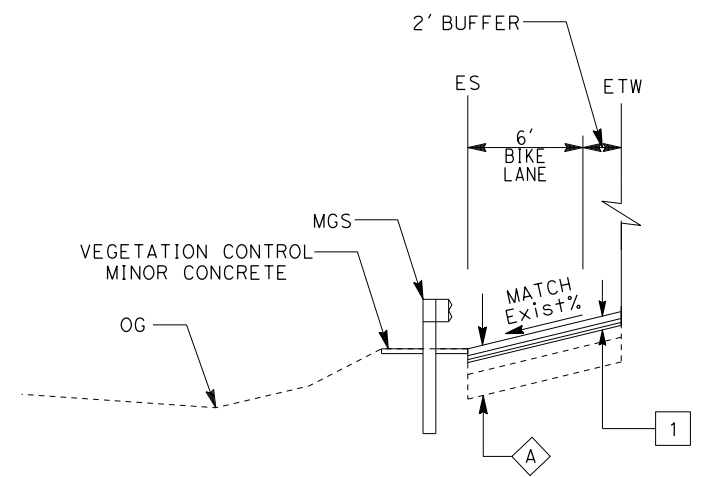
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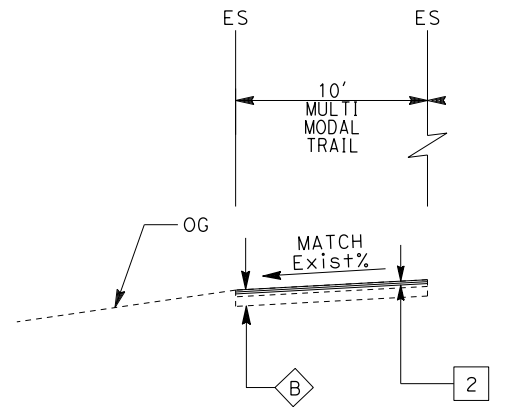
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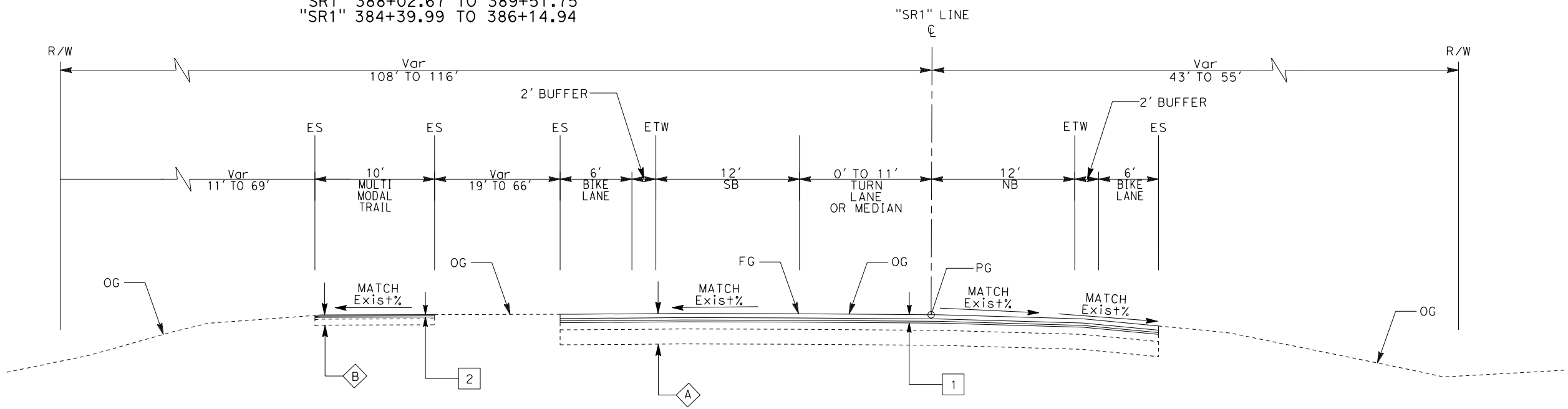
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"SR1" 390+96.44 TO 392+62.33  
 "SR1" 388+02.67 TO 389+51.75  
 "SR1" 384+39.99 TO 386+14.94



"SR1" 346+91 TO 372+00



"SR1" 372+00 TO 405+63.70

**ROUTE 1**

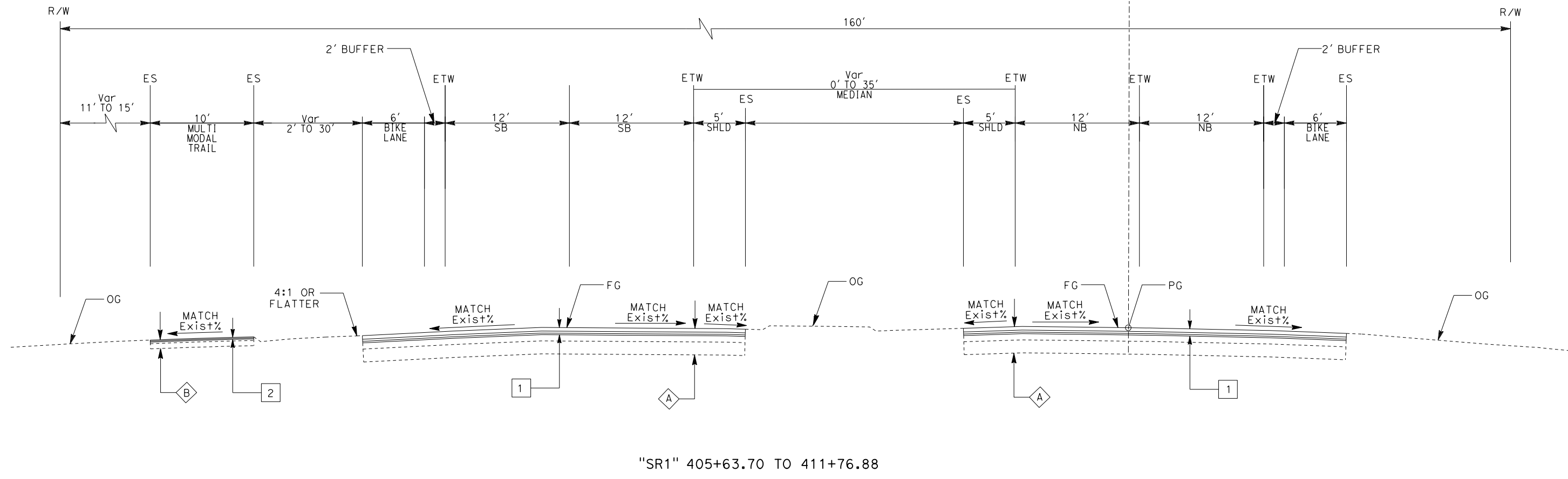
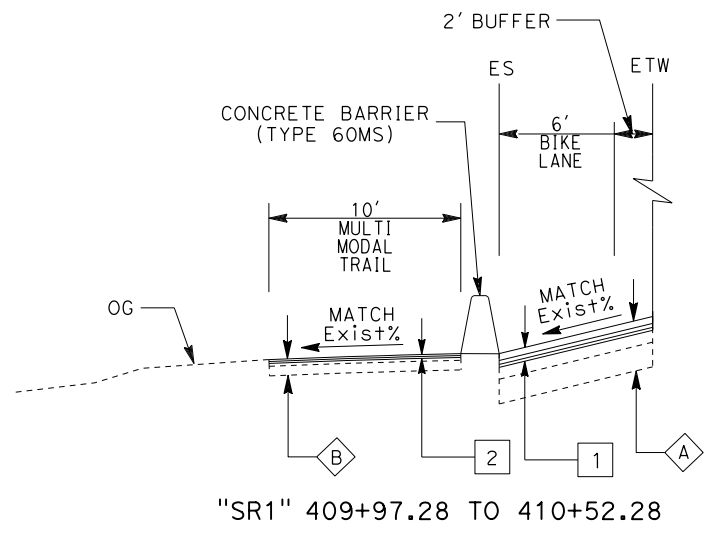
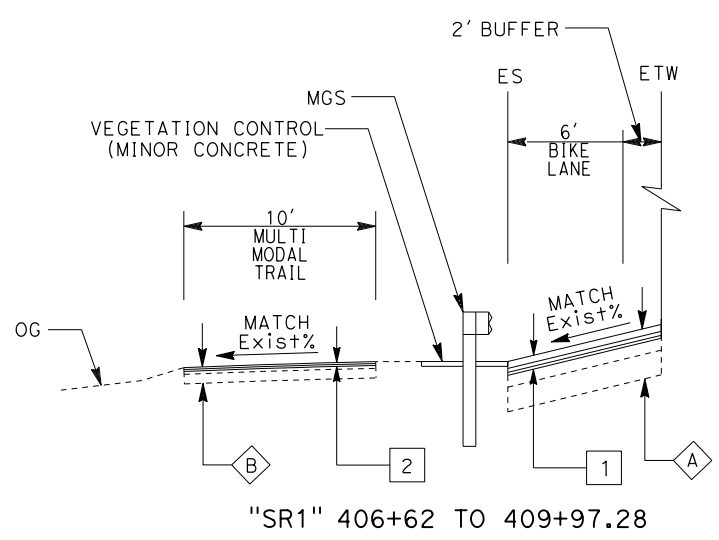
**TYPICAL CROSS SECTIONS**  
NO SCALE

X-2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	1	27.5/34.8	-	-

REGISTERED CIVIL ENGINEER	DATE
PLANS APPROVAL DATE	
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>	
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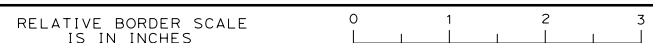
**ROUTE 1**

**TYPICAL CROSS SECTIONS**  
NO SCALE

**X-3**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	REVISOR	DATE
	SANG KIM	KEVIN KRAMER	JASON HOM
	CHECKED BY	DESIGNED BY	DATE

USERNAME => ernie.garnica  
DGN FILE => 0418000053ca003.dgn



UNIT 0720

PROJECT NUMBER & PHASE

04180000531

BORDER LAST REVISED 7/2/2010

LAST REVISION | DATE PLOTTED => 30-OCT-2023  
10-27-23 | TIME PLOTTED => 09:56

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 CONSULTANT FUNCTIONAL SUPERVISOR: SANG KIM  
 CALCULATED/DESIGNED BY: KEVIN KRAMER  
 CHECKED BY: JASON HOM  
 REVISED BY: . . .  
 DATE REVISED: . . .

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	1	27.5/34.8	-	-

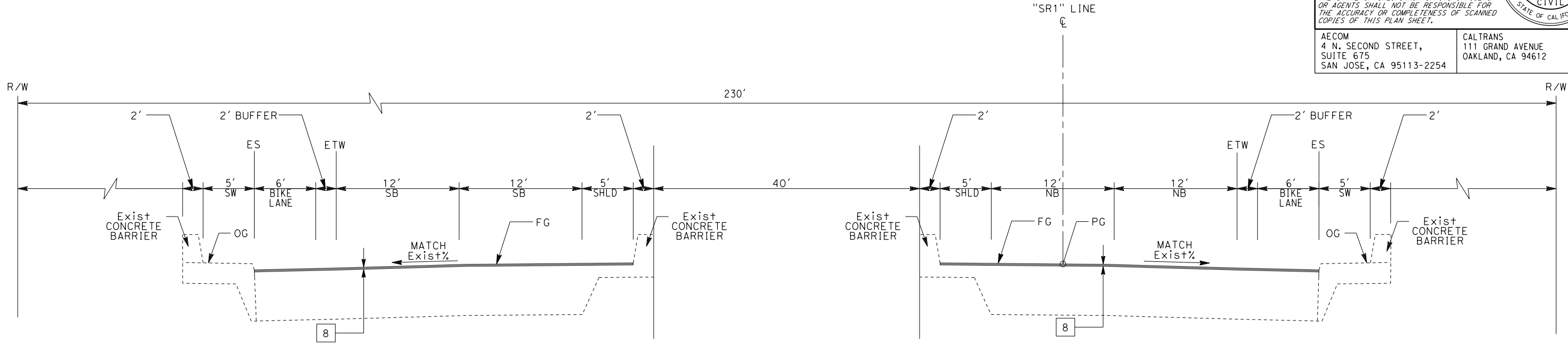
REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_  
 Sang Kim  
 No. C66289  
 Exp. 06-30-24  
 CIVIL  
 STATE OF CALIFORNIA

PLANS APPROVAL DATE \_\_\_\_\_

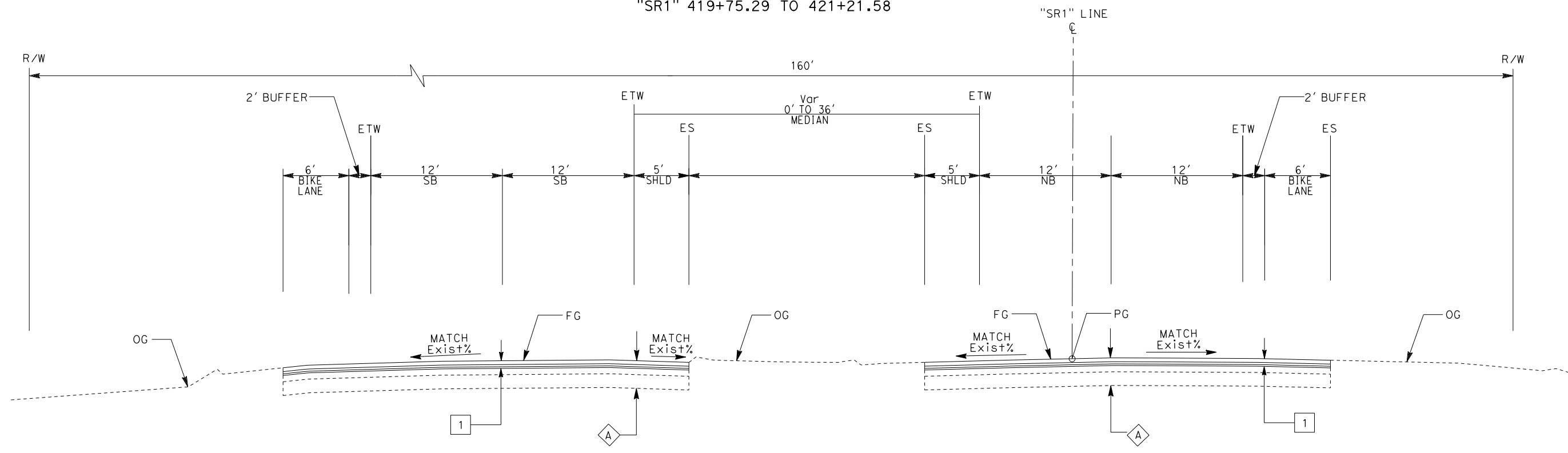
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CALTRANS  
 111 GRAND AVENUE  
 OAKLAND, CA 94612



"SR1" 419+75.29 TO 421+21.58



"SR1" 421+21.58 TO 426+36.58  
 "SR1" 411+76.88 TO 419+75.29

**ROUTE 1**

**TYPICAL CROSS SECTIONS**  
 NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 CONSULTANT FUNCTIONAL SUPERVISOR: SANG KIM  
 CALCULATED/DESIGNED BY: KEVIN KRAMER  
 CHECKED BY: JASON HOM  
 REVISED BY: .  
 DATE REVISED: .

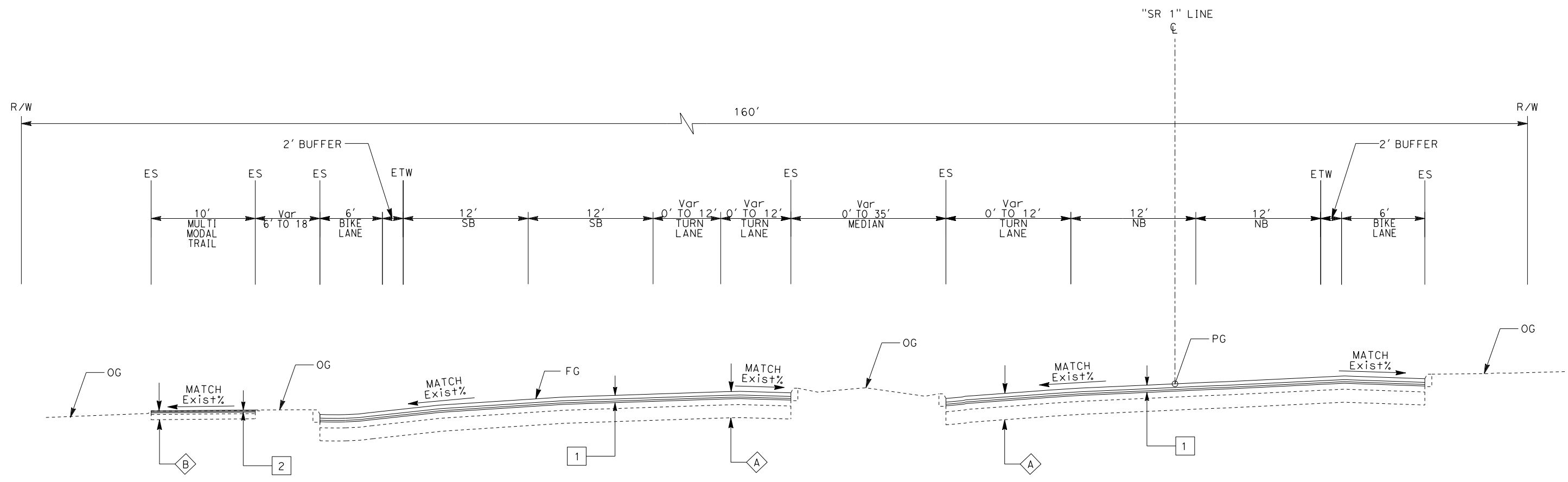
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04	SM	1	27.5/34.8	-	-

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_  
 PLANS APPROVAL DATE \_\_\_\_\_

REGISTERED PROFESSIONAL ENGINEER  
**Sang Kim**  
 No. C66289  
 Exp. 06-30-24  
 CIVIL  
 STATE OF CALIFORNIA

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"SR1" 426+36.58 TO 432+79.70

**ROUTE 1**

**TYPICAL CROSS SECTIONS**  
NO SCALE

**X-5**

LAST REVISION | DATE PLOTTED => 30-OCT-2023  
 10-27-23 | TIME PLOTTED => 09:56

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
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 CALCULATED/DESIGNED BY: KEVIN KRAMER  
 CHECKED BY: JASON HOM  
 REVISED BY: . . .  
 DATE REVISED: . . .

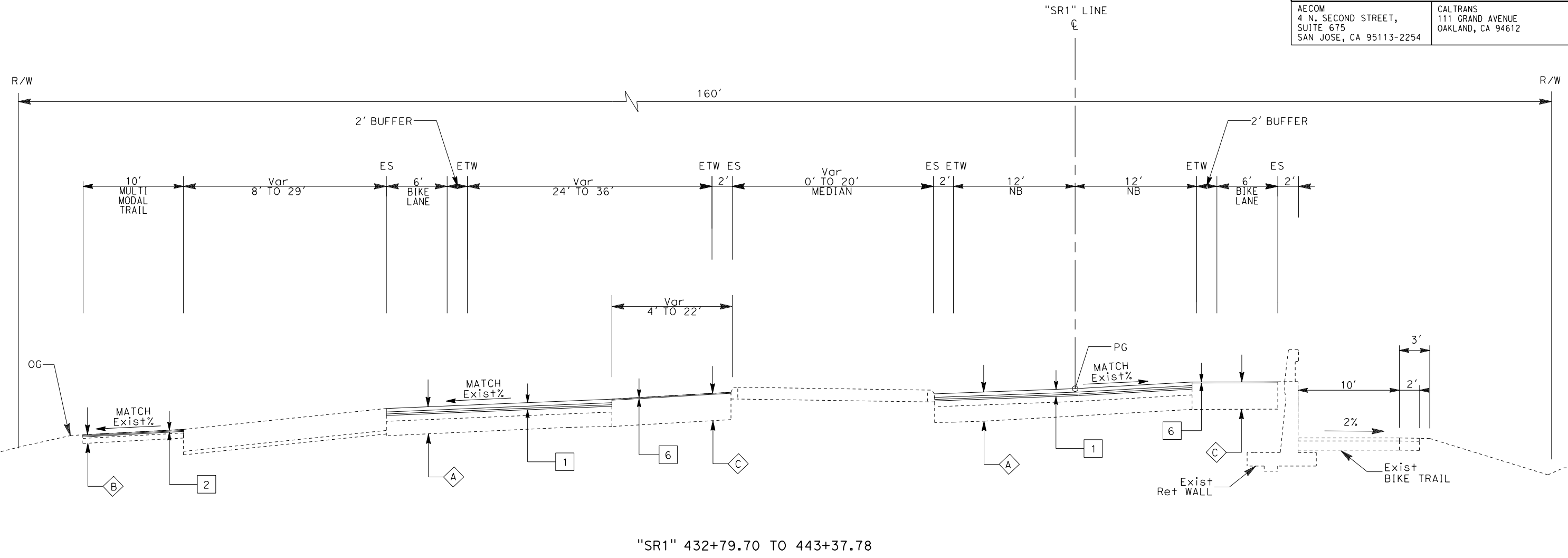
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04	SM	1	27.5/34.8	-	-

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_  
 Sang Kim  
 No. C66289  
 Exp. 06-30-24  
 CIVIL  
 STATE OF CALIFORNIA

PLANS APPROVAL DATE \_\_\_\_\_

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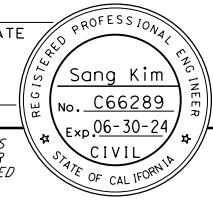


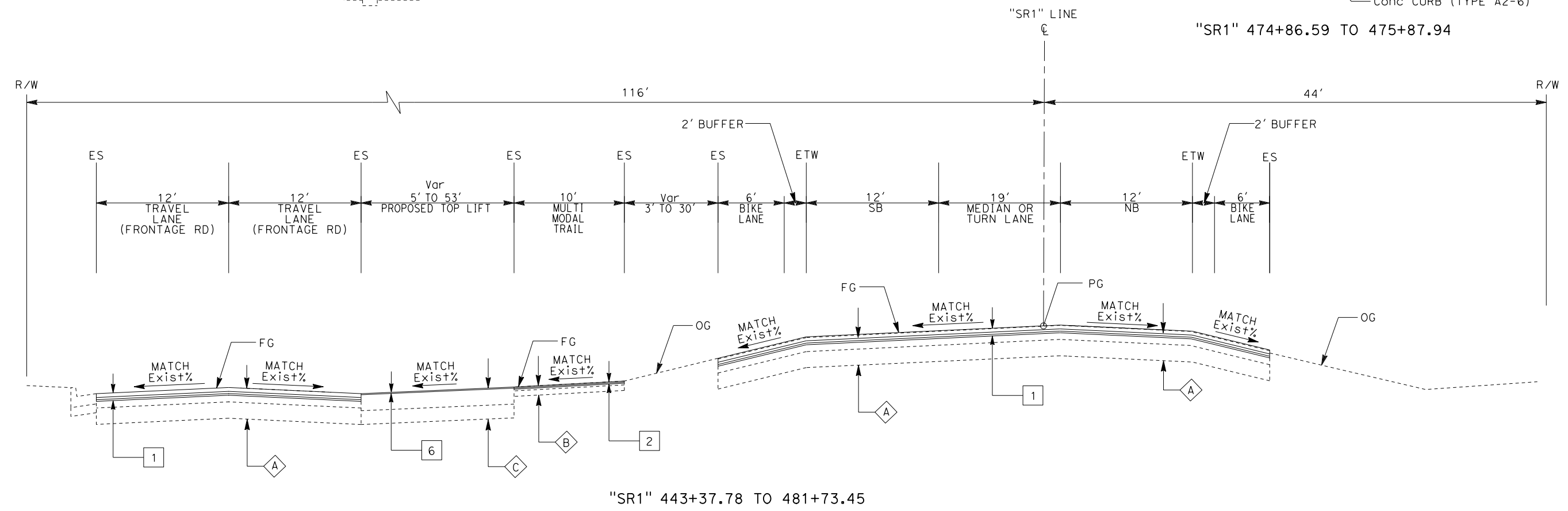
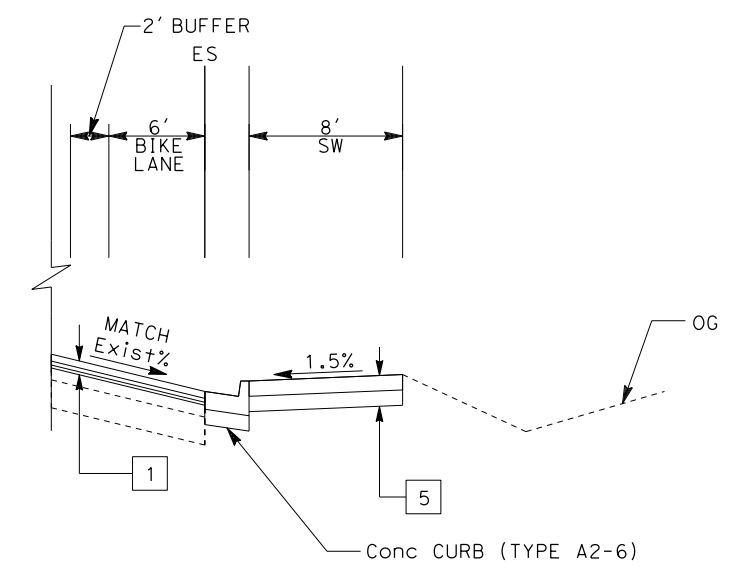
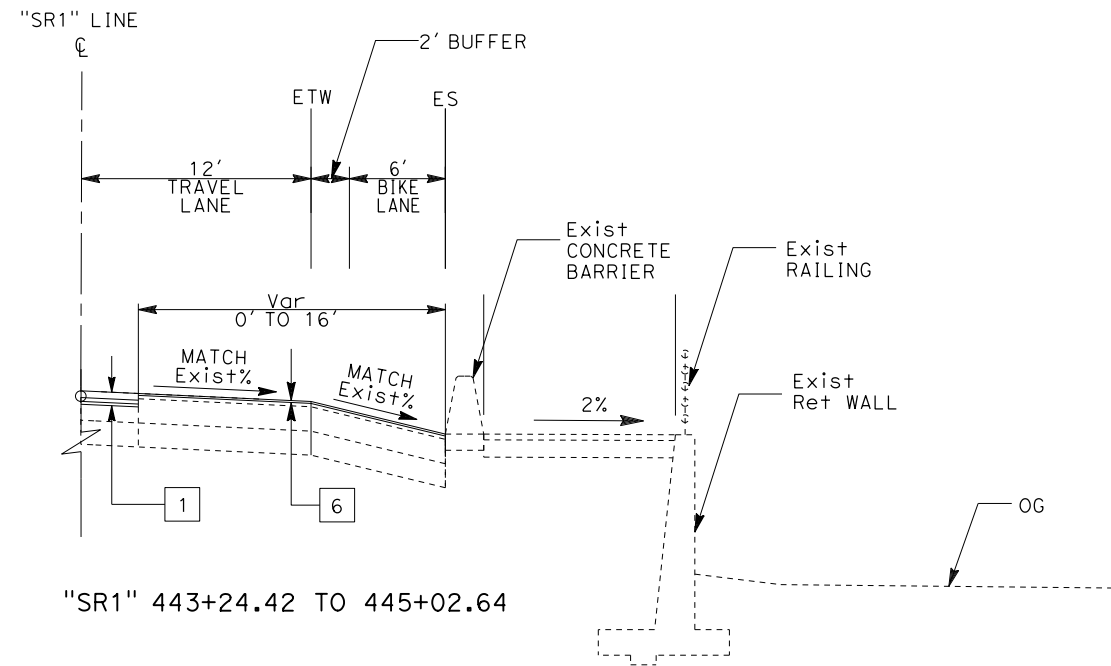
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**TYPICAL CROSS SECTIONS**  
NO SCALE

**X-6**




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REGISTERED CIVIL ENGINEER DATE					
					
PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					
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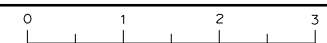
**TYPICAL CROSS SECTIONS**  
NO SCALE

X-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	REVISOR	DATE
	SANG KIM	KEVIN KRAMER	JASON HOM
	CHECKED BY	DESIGNED BY	DATE

USERNAME => ernie.garnica  
DGN FILE => 0418000053ca007.dgn

RELATIVE BORDER SCALE 15 IN INCHES



UNIT 0720

PROJECT NUMBER & PHASE 04180000531

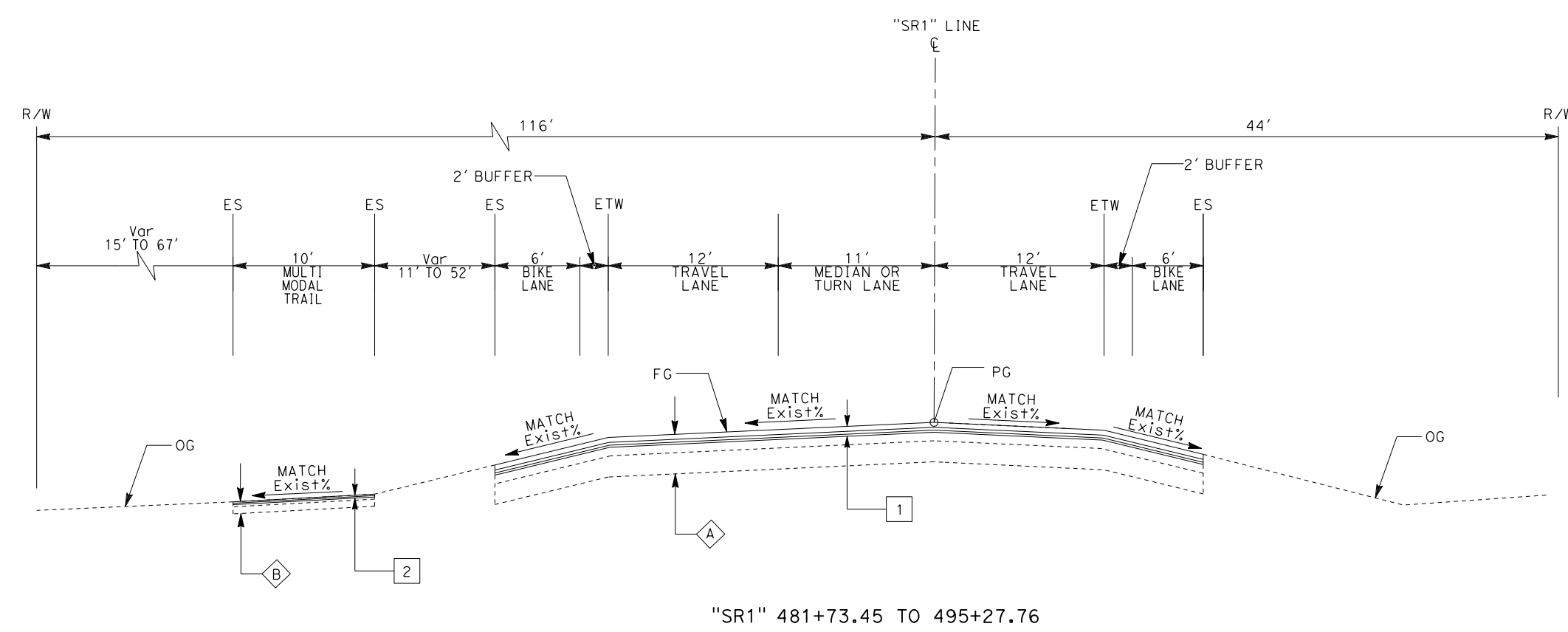
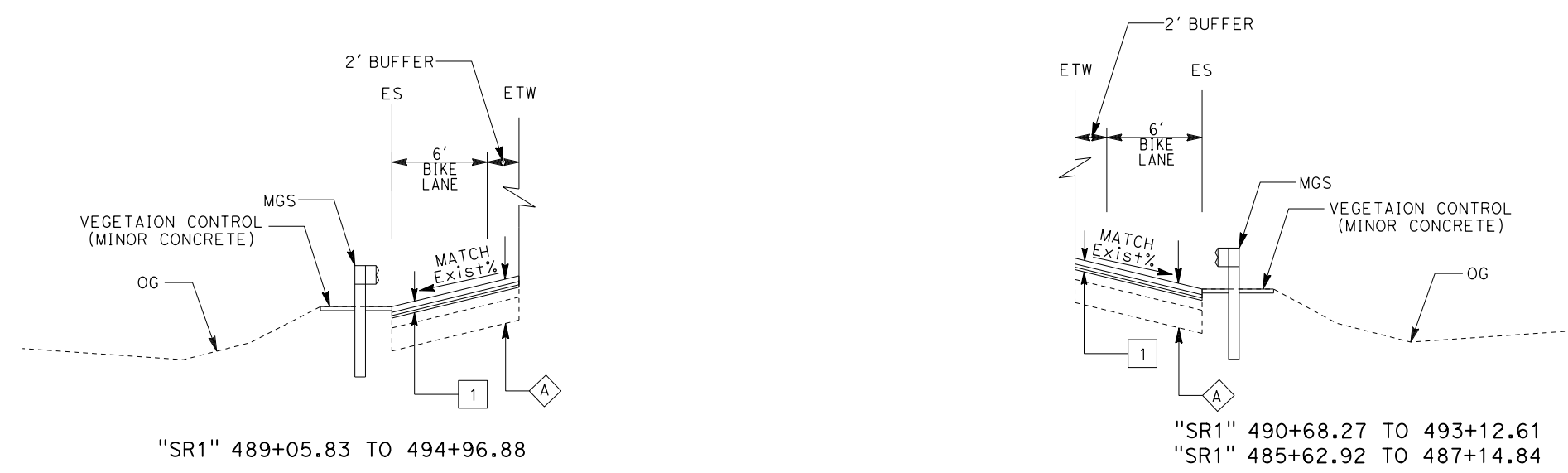
LAST REVISION | DATE PLOTTED => 30-OCT-2023 | TIME PLOTTED => 09:57

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 CONSULTANT FUNCTIONAL SUPERVISOR: SANG KIM  
 CALCULATED/DESIGNED BY: KEVIN KRAMER  
 CHECKED BY: JASON HOM  
 REVISED BY: KEVIN KRAMER  
 DATE REVISED: JASON HOM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	1	27.5/34.8	-	-

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_  
 PLANS APPROVAL DATE \_\_\_\_\_  
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 AECOM 4 N. SECOND STREET, SUITE 675 SAN JOSE, CA 95113-2254  
 CALTRANS 111 GRAND AVENUE OAKLAND, CA 94612

REGISTERED PROFESSIONAL ENGINEER  
**Sang Kim**  
 No. C66289  
 Exp. 06-30-24  
 CIVIL  
 STATE OF CALIFORNIA

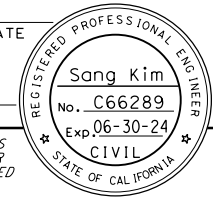



**ROUTE 1**

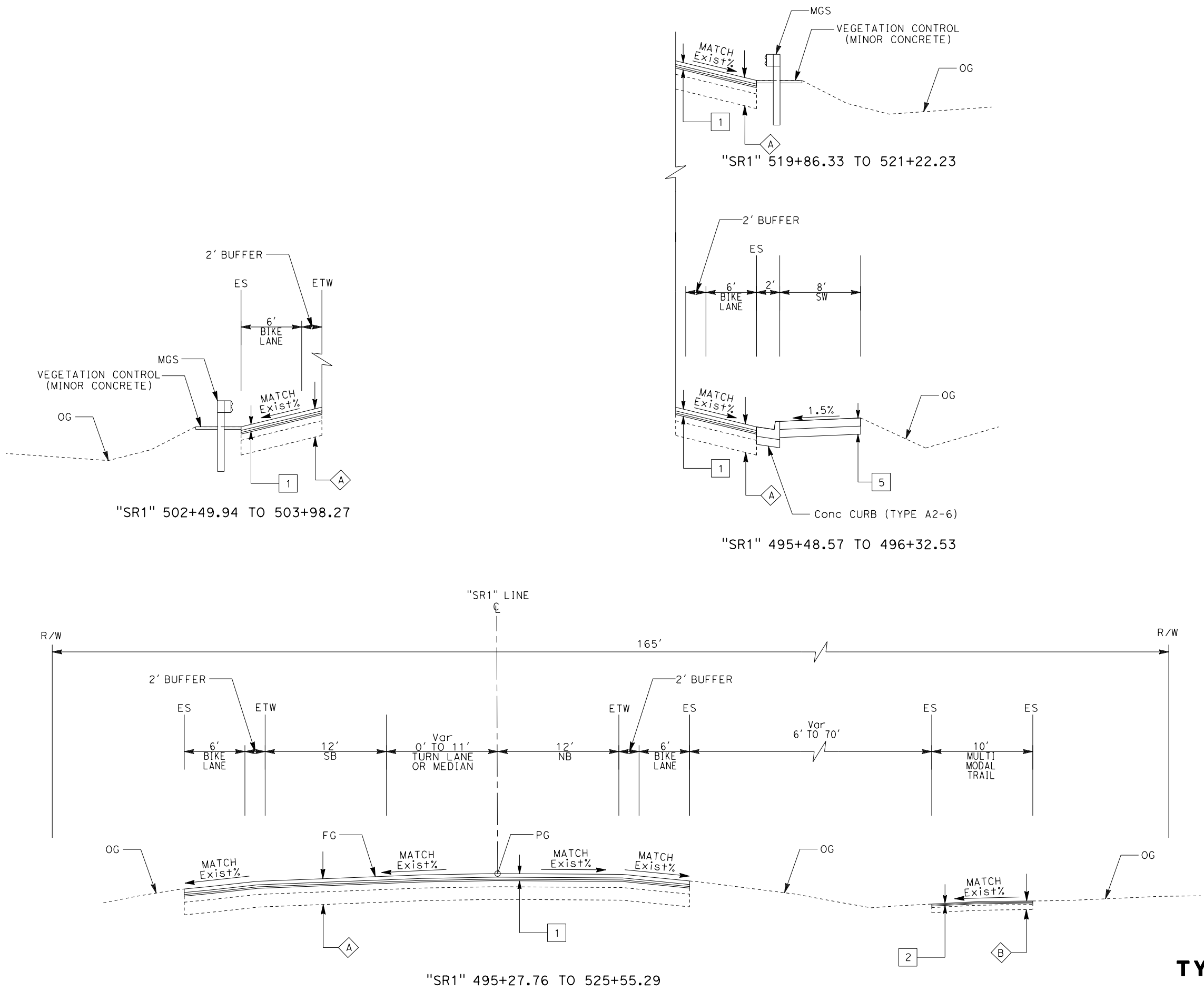
**TYPICAL CROSS SECTIONS**  
 NO SCALE

**X-8**

LAST REVISION DATE PLOTTED => 30-OCT-2023 10-27-23 TIME PLOTTED => 09:57

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	1	27.5/34.8	-	-
REGISTERED CIVIL ENGINEER DATE					
PLANS APPROVAL DATE					
					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					
AECOM 4 N. SECOND STREET, SUITE 675 SAN JOSE, CA 95113-2254			CALTRANS 111 GRAND AVENUE OAKLAND, CA 94612		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CHECKED BY	REVISOR	DATE
	SANG KIM	JASON HOM	KEVIN KRAMER	



**TYPICAL CROSS SECTIONS**  
NO SCALE

**ROUTE 1**

LAST REVISION DATE PLOTTED => 30-OCT-2023 10-27-23 TIME PLOTTED => 09:57

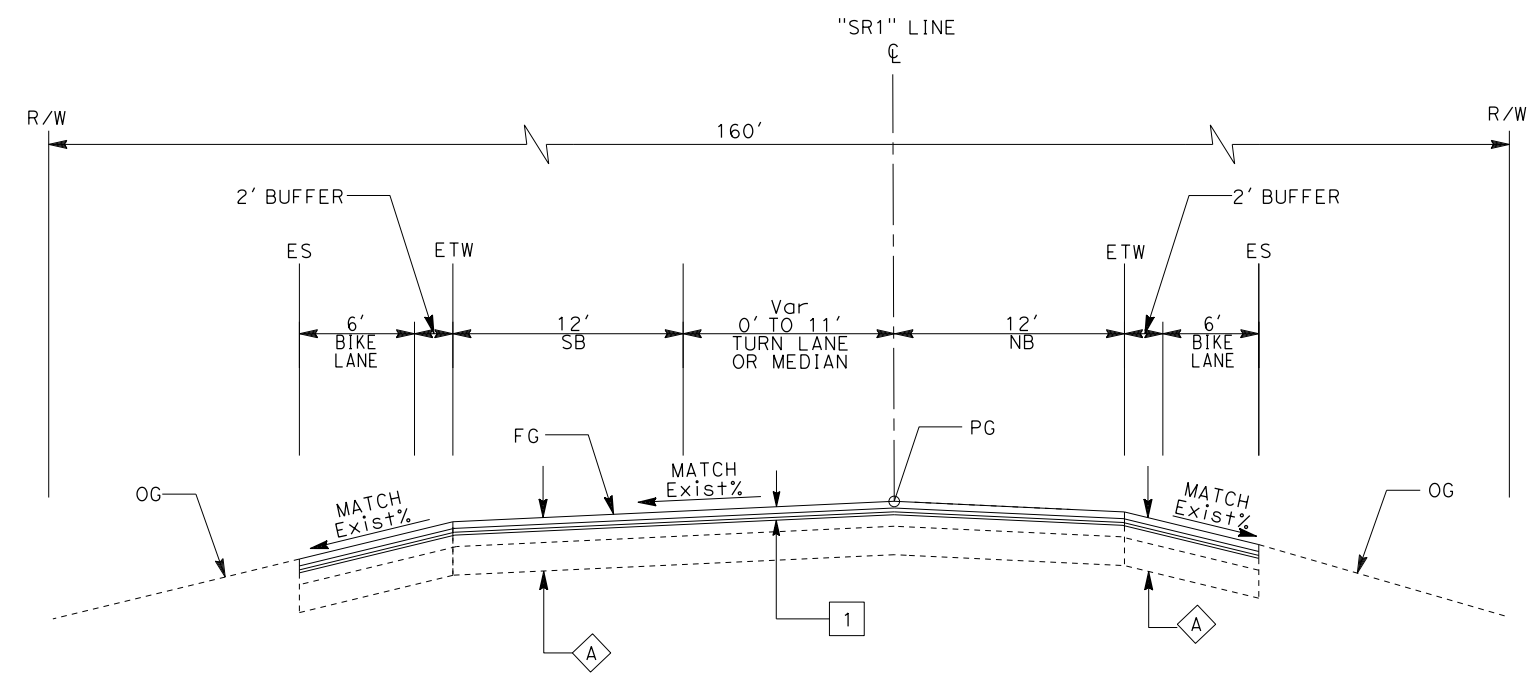
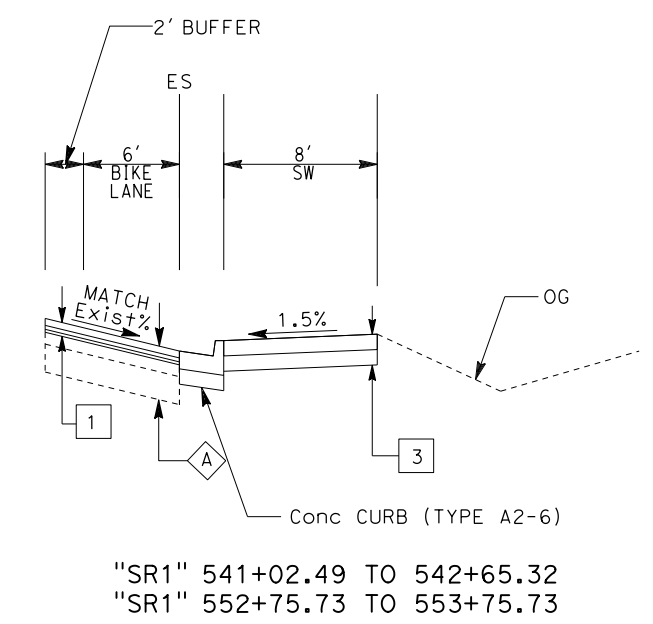
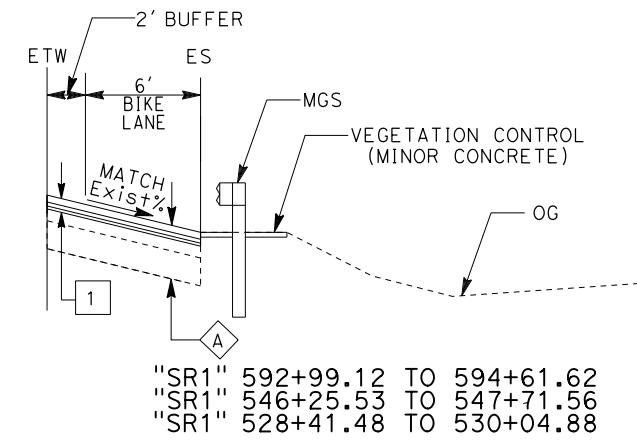
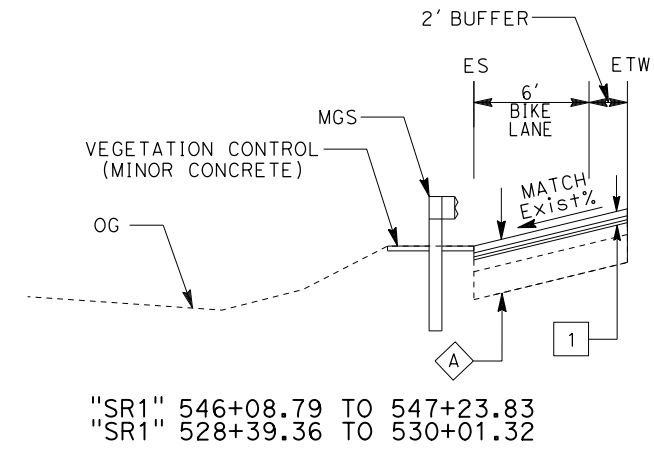
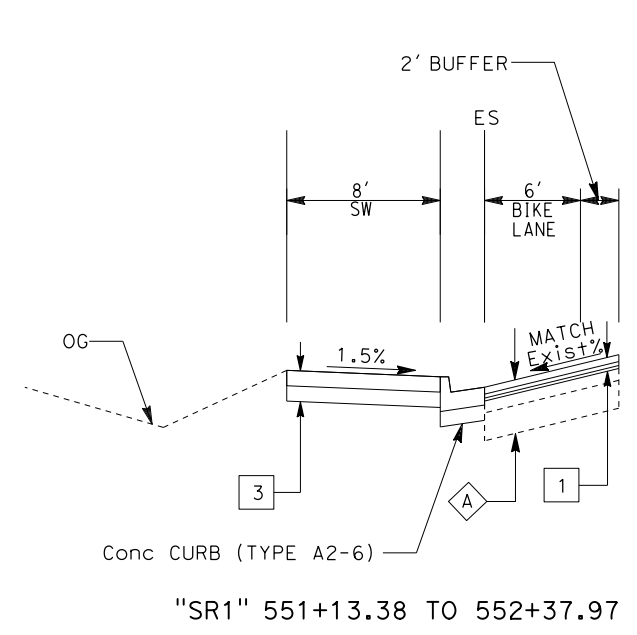
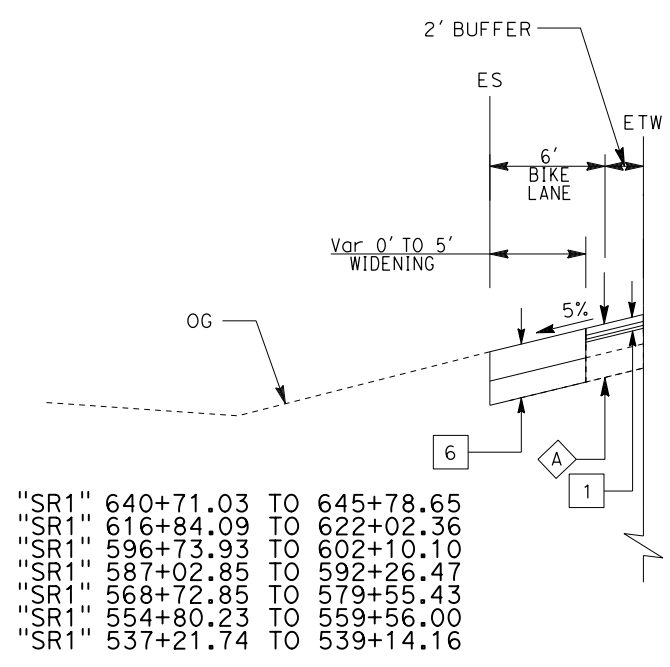
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	1	27.5/34.8	-	-

REGISTERED CIVIL ENGINEER	DATE
PLANS APPROVAL DATE	

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"SR1" 525+55.29 TO 618+69.06

**ROUTE 1**

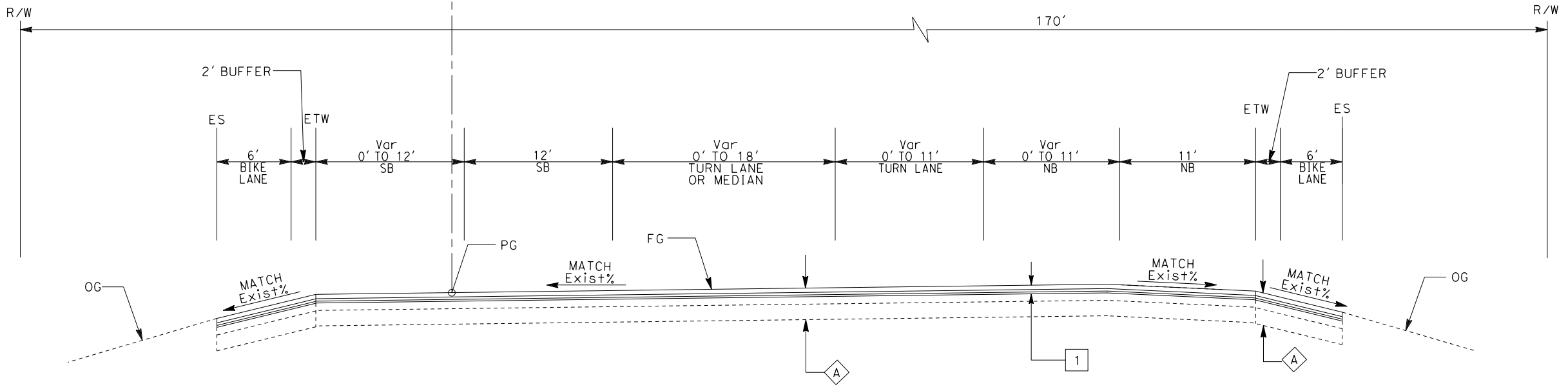
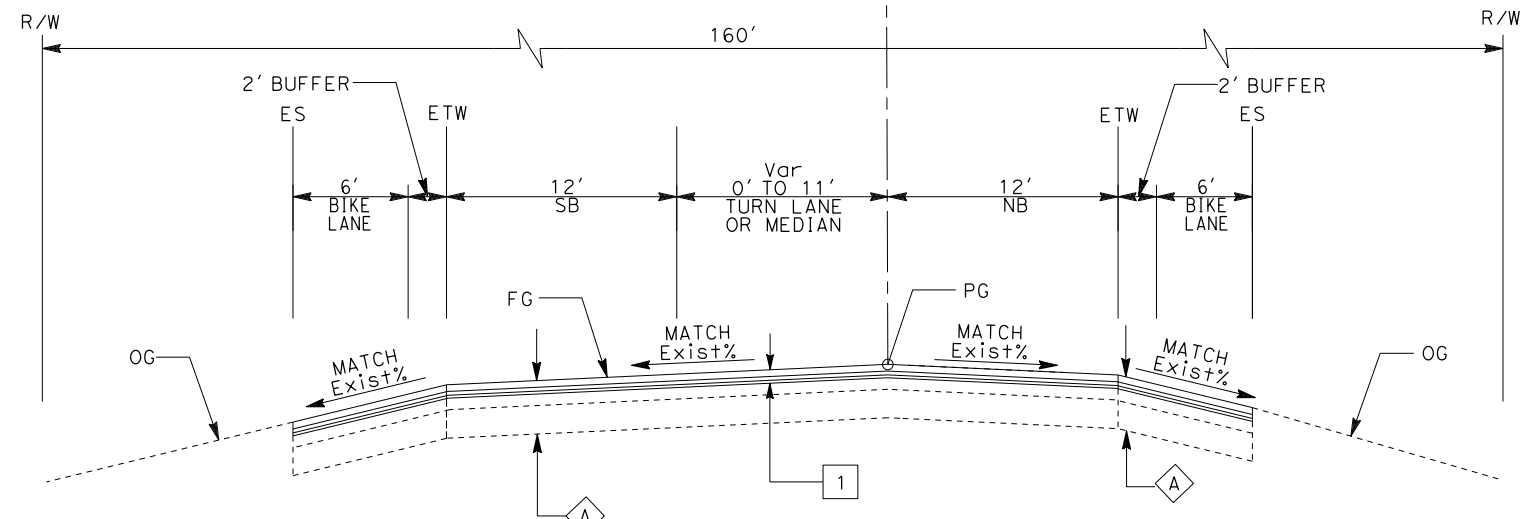
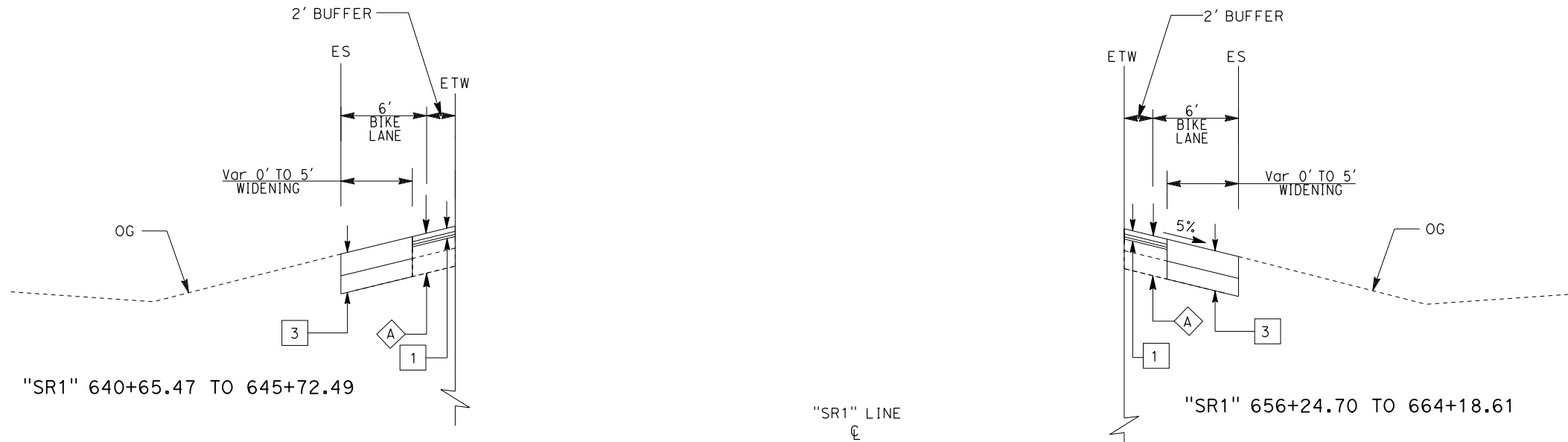
**TYPICAL CROSS SECTIONS**  
NO SCALE

**X-10**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	DESIGNED BY	REVISOR
	SANG KIM	KEVIN KRAMER	KEVIN KRAMER
	CHECKED BY	DATE	DATE
	JASON HOM		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
<b>Caltrans</b>	SANG KIM	CHECKED BY	DATE
		KEVIN KRAMER	KEVIN KRAMER
		JASON HOM	JASON HOM

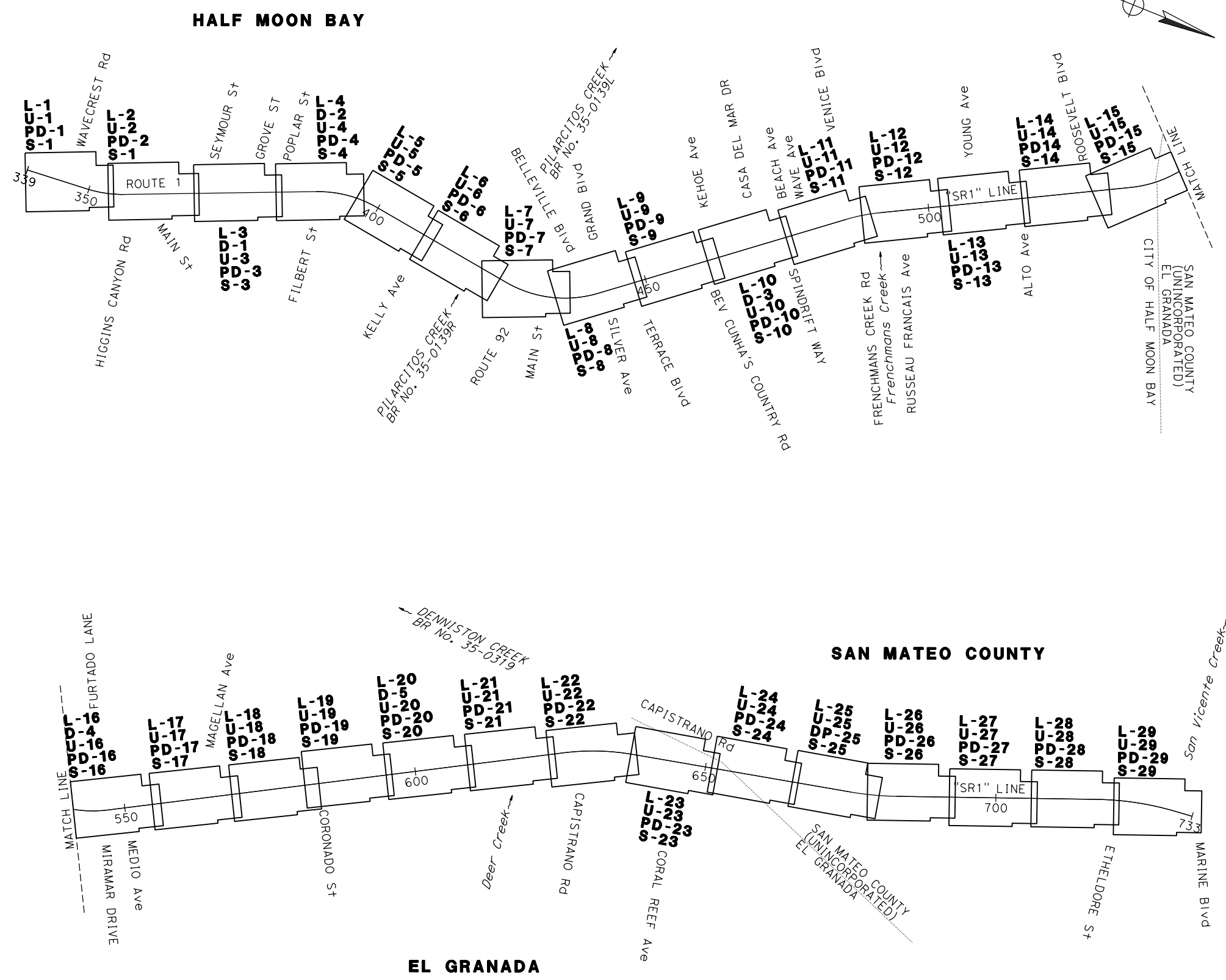
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	1	27.5/34.8	-	-
REGISTERED CIVIL ENGINEER DATE					
PLANS APPROVAL DATE					
AECOM 4 N. SECOND STREET, SUITE 675 SAN JOSE, CA 95113-2254			CALTRANS 111 GRAND AVENUE OAKLAND, CA 94612		



"SR1" 618+69.06 TO 639+08.11  
**ROUTE 1**

**TYPICAL CROSS SECTIONS**  
NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	JASON HOM	REVISOR	DATE
<b>Caltrans</b>	SANG KIM	CHECKED BY	SANG KIM	DATE	REVISOR



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	1	27.5/34.8	—	—

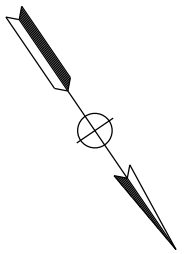
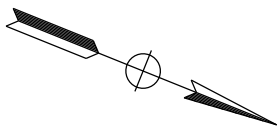
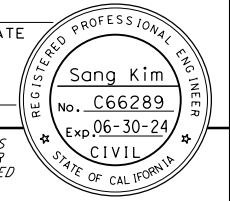
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

AECOM  
4 N. SECOND STREET,  
SUITE 675  
SAN JOSE, CA 95113-2254

CALTRANS  
111 GRAND AVENUE  
OAKLAND, CA 94612



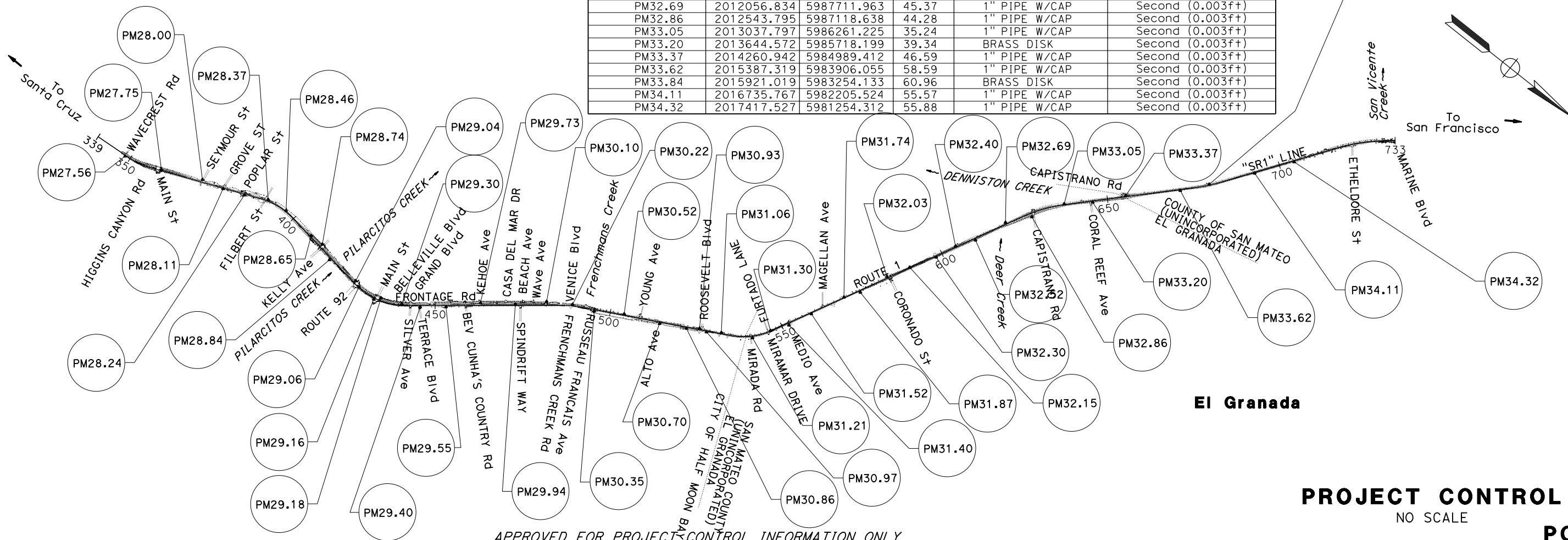
**KEY MAP AND LINE INDEX**  
NO SCALE  
**K-1**

**NOTES:**

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. FOR COMPLETE PROJECT CONTROL DATA, SEE THE SURVEY ON FILE IN THE SURVEYS DEPARTMENT AT THE DISTRICT OFFICE.
3. HORIZONTAL DATUM IS THE NORTH AMERICAN DATUM OF CCS83, CALIFORNIA COORDINATE SYSTEM ZONE 3, EPOCH 2019.55.
4. ELEVATION ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1983 (NAD88).

POINT #	NORTHING	EASTING	Elev	DESCRIPTION	ACCURACY
PM27.56	1991269.138	6001819.748	100.13	1" PIPE W/CAP	Second (0.003ft)
PM27.75	1992318.098	6001481.147	95.55	1" PIPE W/CAP	Second (0.003ft)
PM28.00	1993408.305	6000976.02	86.51	SKRIBED "X"	Second (0.003ft)
PM28.11	1994027.754	6000811.46	86.42	BRASS DISK	Second (0.003ft)
PM28.24	1994614.758	6000574.125	85.51	BRASS DISK	Second (0.003ft)
PM28.37	1995226.607	6000256.144	82.17	1" PIPE W/CAP	Second (0.003ft)
PM28.46	1995818.025	6000181.945	76.11	1" PIPE W/CAP	Second (0.003ft)
PM28.65	1996824.527	6000304.783	66.64	1" PIPE W/CAP	Second (0.003ft)
PM28.74	1997222.232	6000290.822	63.68	BRASS DISK	Second (0.003ft)
PM28.84	1997654.773	6000508.98	60.08	BRASS DISK	Second (0.003ft)
PM29.04	1998611.83	6000515.839	56.68	1" PIPE W/CAP	Second (0.003ft)
PM29.06	1998792.949	6000594.001	57.93	BRASS DISK	Second (0.003ft)
PM29.16	1999338.989	6000604.516	58.85	1" PIPE W/CAP	Second (0.003ft)
PM29.18	1999478.458	6000446.797	55.09	BRASS DISK	Second (0.003ft)
PM29.30	2000049.261	6000213.095	55.17	BRASS DISK	Second (0.003ft)
PM29.40	2000512.872	5999957.384	53.82	SKRIBED "X"	Second (0.003ft)
PM29.55	2001083.441	5999496.353	51.86	BRASS DISK	Second (0.003ft)
PM29.73	2001780.485	5998794.229	44.30	1" PIPE W/CAP	Second (0.003ft)
PM29.94	2002582.856	5998208.362	54.19	BRASS DISK	Second (0.003ft)
PM30.10	2003231.619	5997594.748	56.46	BRASS DISK	Second (0.003ft)
PM30.22	2003861.329	5997200.87	66.12	1" PIPE W/CAP	Second (0.003ft)
PM30.35	2004461.257	5996965.319	64.22	1" PIPE W/CAP	Second (0.003ft)
PM30.52	2005181.074	5996501.743	60.75	BRASS DISK	Second (0.003ft)
PM30.70	2006138.267	5996087.853	50.58	BRASS DISK	Second (0.003ft)
PM30.86	2006820.228	5995718.239	47.95	BRASS DISK	Second (0.003ft)
PM30.93	2007112.15	5995483.858	47.80	1" PIPE W/CAP	Second (0.003ft)
PM30.97	2007332.549	5995441.846	48.93	BRASS DISK	Second (0.003ft)
PM31.06	2007675.666	5995197.327	48.21	1" PIPE W/CAP	Second (0.003ft)
PM31.21	2008458.634	5994758.708	68.29	1" PIPE W/CAP	Second (0.003ft)
PM31.30	2008732.687	5994280.178	72.81	BRASS DISK	Second (0.003ft)
PM31.40	2009048.677	5993830.659	59.89	1" PIPE W/CAP	Second (0.003ft)
PM31.52	2009346.254	5993182.589	39.95	1" PIPE W/CAP	Second (0.003ft)
PM31.74	2009779.322	5992235.632	32.95	1" PIPE W/CAP	Second (0.003ft)
PM31.87	2010060.333	5991837.075	40.24	1" PIPE W/CAP	Second (0.003ft)
PM32.03	2010372.105	5991013.59	26.76	1" PIPE W/CAP	Second (0.003ft)
PM32.15	2010716.008	5990406.348	19.84	BRASS DISK	Second (0.003ft)
PM32.30	2011124.753	5989712.668	23.32	1" PIPE W/CAP	Second (0.003ft)
PM32.40	2011363.811	5989124.82	28.72	BRASS DISK	Second (0.003ft)
PM32.52	2011701.371	5988637.41	38.79	1" PIPE W/CAP	Second (0.003ft)
PM32.69	2012056.834	5987711.963	45.37	1" PIPE W/CAP	Second (0.003ft)
PM32.86	2012543.795	5987118.638	44.28	1" PIPE W/CAP	Second (0.003ft)
PM33.05	2013037.797	5986261.225	35.24	1" PIPE W/CAP	Second (0.003ft)
PM33.20	2013644.572	5985718.199	39.34	BRASS DISK	Second (0.003ft)
PM33.37	2014260.942	5984989.412	46.59	1" PIPE W/CAP	Second (0.003ft)
PM33.62	2015387.319	5983906.055	58.59	1" PIPE W/CAP	Second (0.003ft)
PM33.84	2015921.019	5983254.133	60.96	BRASS DISK	Second (0.003ft)
PM34.11	2016735.767	5982205.524	55.57	1" PIPE W/CAP	Second (0.003ft)
PM34.32	2017417.527	5981254.312	55.88	1" PIPE W/CAP	Second (0.003ft)

**HALF MOON BAY**



APPROVED FOR PROJECT CONTROL INFORMATION ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	1	27.5/34.8	-	-

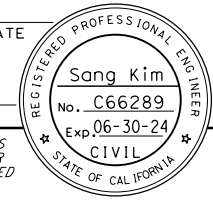
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

AECOM  
4 N. SECOND STREET,  
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SAN JOSE, CA 95113-2254

CALTRANS  
111 GRAND AVENUE  
OAKLAND, CA 94612



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

CONSULTANT FUNCTIONAL SUPERVISOR: SANG KIM

REVISOR: JASON HOM

CHECKED BY: SANG KIM

DESIGNED BY: SANG KIM

DATE REVISED: [Blank]

**NOTE:**

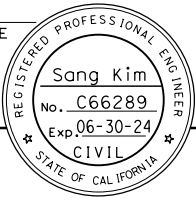
FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	1	27.5/34.8	-	-

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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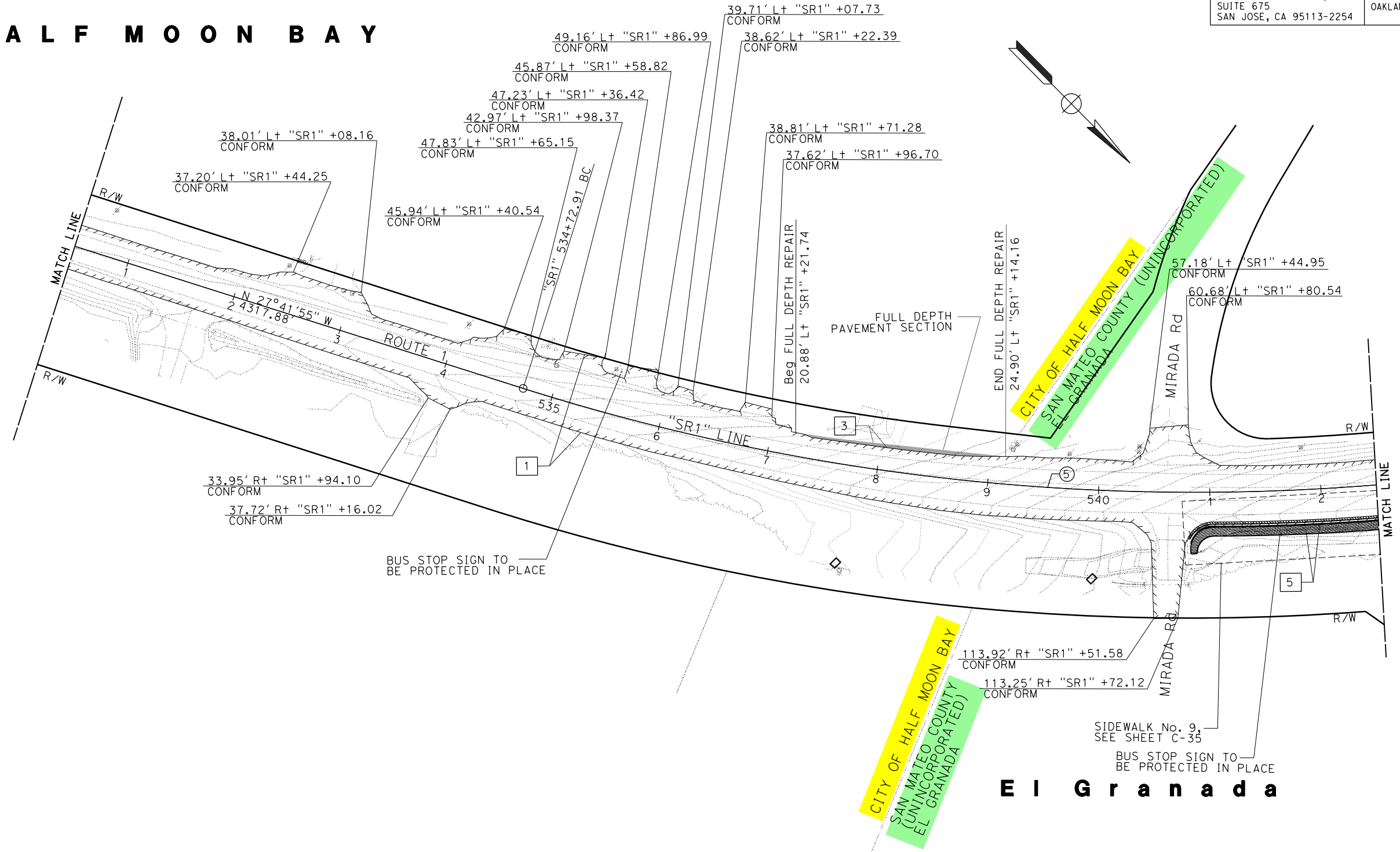
AECOM  
4 N. SECOND STREET,  
SUITE 675  
SAN JOSE, CA 95113-2254

CALTRANS  
111 GRAND AVENUE  
OAKLAND, CA 94612

**CURVE DATA**

No. (#)	R	Δ	T	L	N-COORDINATE	E-COORDINATE
5	2000.0'	35°10'27"	633.94'	1227.81'	2006989.874	5993330.702

**H A L F M O O N B A Y**



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR
<b>Caltrans</b>	SANG KIM	CHECKED BY	KEVIN KRAMER
			JASON HOM
			DATE REVISED

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

**LAYOUT**  
SCALE: 1" = 50'  
**L-15**

LAST REVISION DATE PLOTTED => 14-DEC-2023 10-27-23 TIME PLOTTED => 09:16



**NOTE:**

FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	1	27.5/34.8	-	-

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

AECOM  
4 N. SECOND STREET,  
SUITE 675  
SAN JOSE, CA 95113-2254

CALTRANS  
111 GRAND AVENUE  
OAKLAND, CA 94612

REGISTERED PROFESSIONAL ENGINEER

Sang Kim

No. C66289

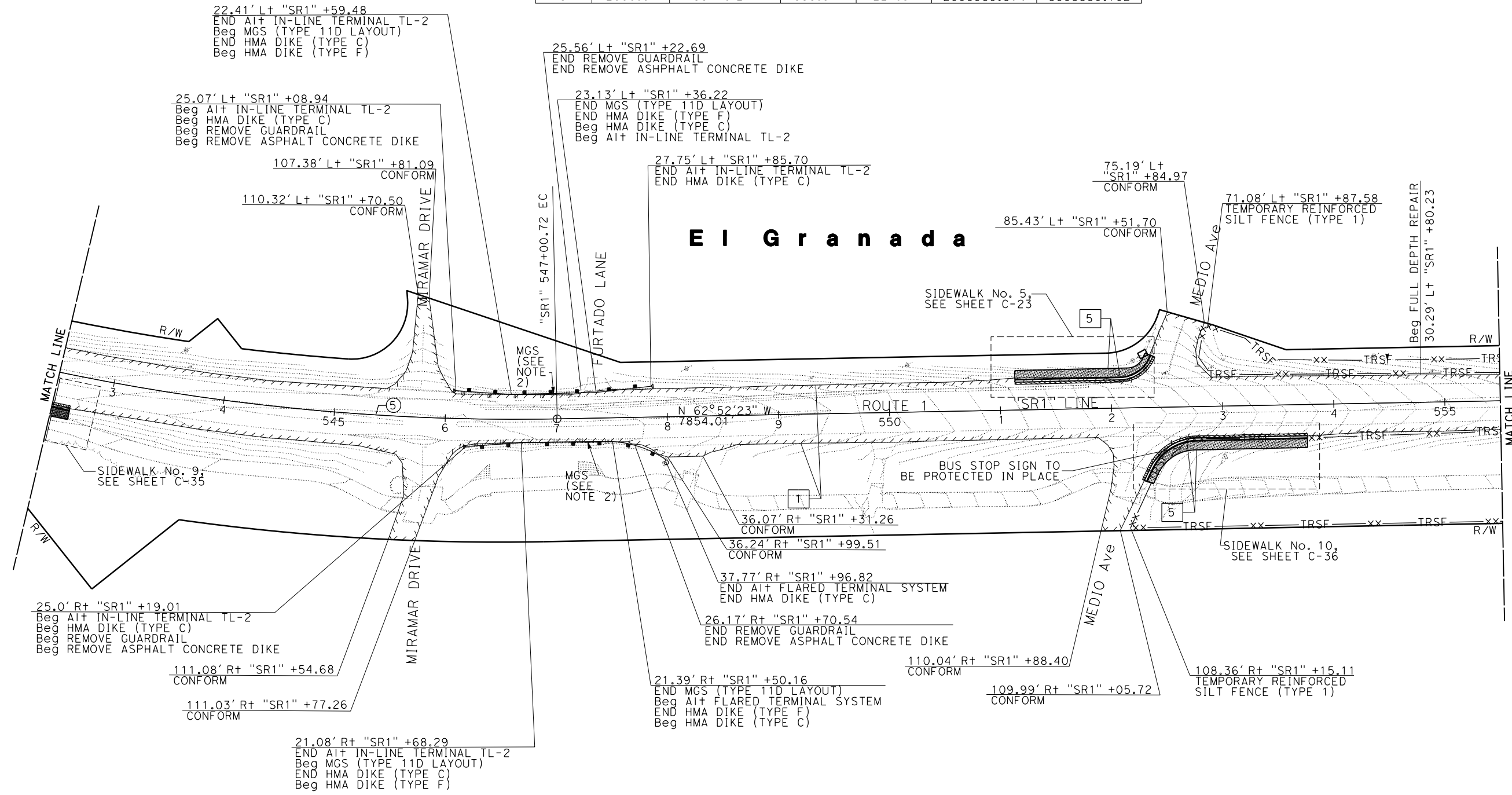
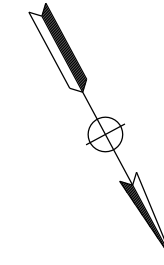
Exp. 06-30-24

CIVIL

STATE OF CALIFORNIA

**CURVE DATA**

No. (#)	R	$\Delta$	T	L	N-COORDINATE	E-COORDINATE
5	2000.0'	35°10'27"	633.94'	1227.81'	2006989.874	5993330.702

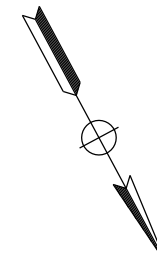


FOR NOTES, ABBREVIATIONS  
AND LEGEND, SEE SHEET L-1

**LAYOUT**  
SCALE: 1" = 50'  
**L-16**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	REVISOR	DATE
Caltrans	SANG KIM	KEVIN KRAMER	7/2/2010
	CHECKED BY	DATE	REVISION
	JASON HOM		

**NOTE:**  
FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



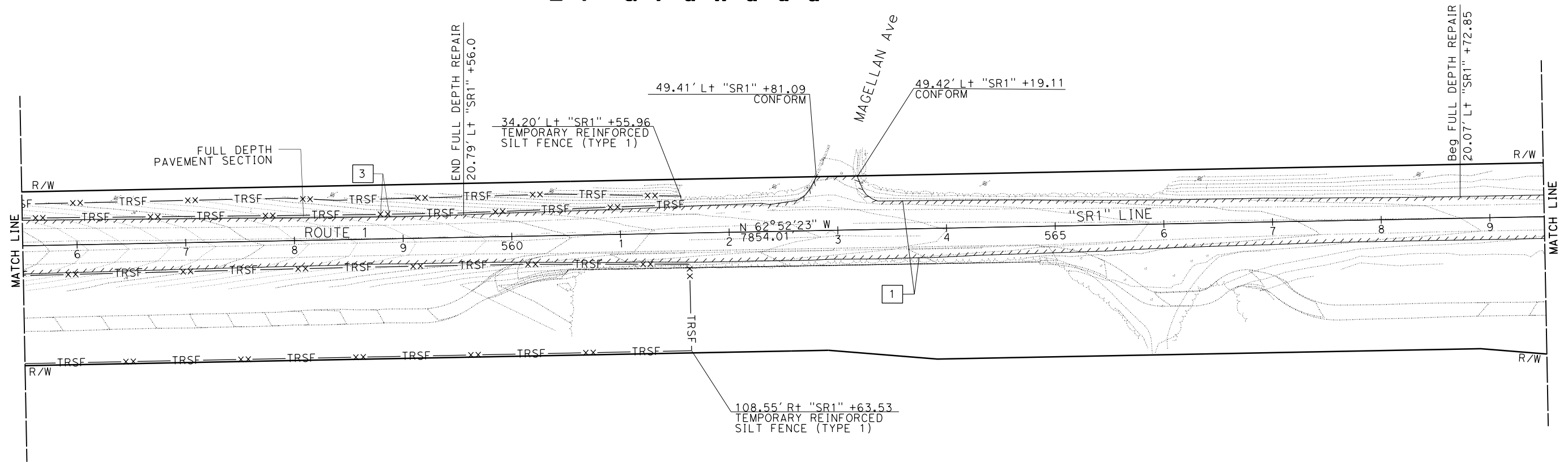
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	1	27.5/34.8	-	-

REGISTERED CIVIL ENGINEER	DATE
PLANS APPROVAL DATE	
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>	
AECOM 4 N. SECOND STREET, SUITE 675 SAN JOSE, CA 95113-2254	CALTRANS 111 GRAND AVENUE OAKLAND, CA 94612

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
CONSULTANT FUNCTIONAL SUPERVISOR SANG KIM
CALCULATED-DESIGNED BY CHECKED BY
KEVIN KRAMER JASON HOM
REVISED BY DATE REVISED

## E I Granada



FOR NOTES, ABBREVIATIONS  
AND LEGEND, SEE SHEET L-1

**LAYOUT**  
SCALE: 1" = 50'  
**L-17**



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 CONSULTANT FUNCTIONAL SUPERVISOR SANG KIM  
 CALCULATED/DESIGNED BY CHECKED BY  
 KEVIN KRAMER JASON HOM  
 REVISED BY DATE REVISED

**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

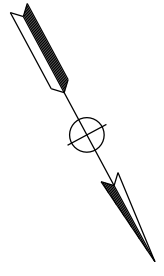
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	1	27.5/34.8	-	-

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_  
 Sang Kim  
 No. C66289  
 Exp. 06-30-24  
 CIVIL  
 STATE OF CALIFORNIA

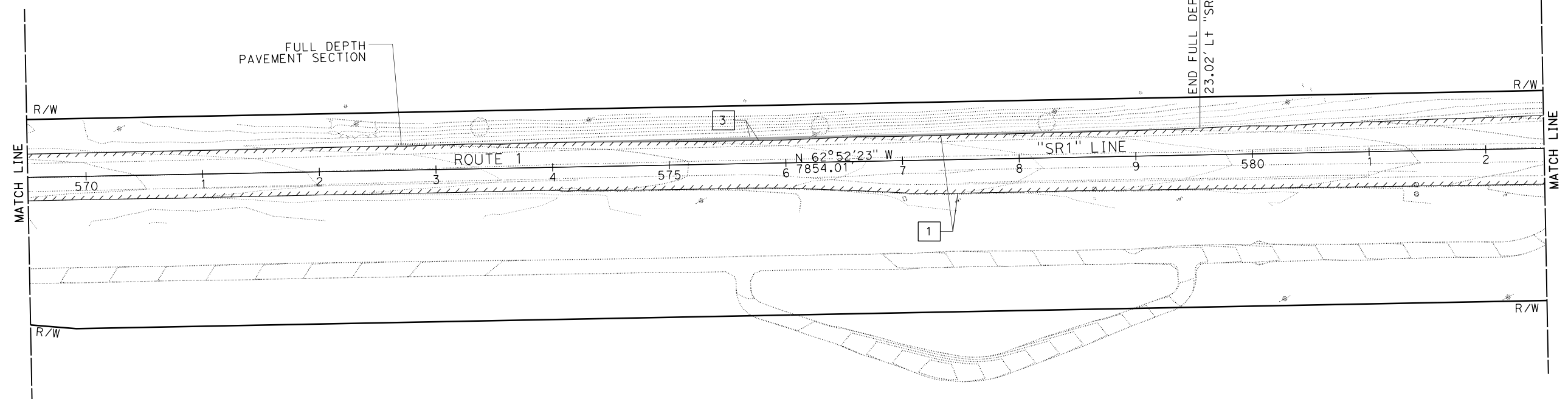
PLANS APPROVAL DATE \_\_\_\_\_

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AECOM 4 N. SECOND STREET, SUITE 675 SAN JOSE, CA 95113-2254	CALTRANS 111 GRAND AVENUE OAKLAND, CA 94612
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# E I G r a n a d a



FOR NOTES, ABBREVIATIONS  
 AND LEGEND, SEE SHEET L-1

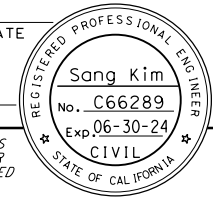
**LAYOUT**  
 SCALE: 1" = 50'  
**L-18**

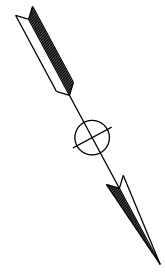
LAST REVISION | DATE PLOTTED => 14-DEC-2023  
 10-27-23 | TIME PLOTTED => 09:16

**NOTE:**  
FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

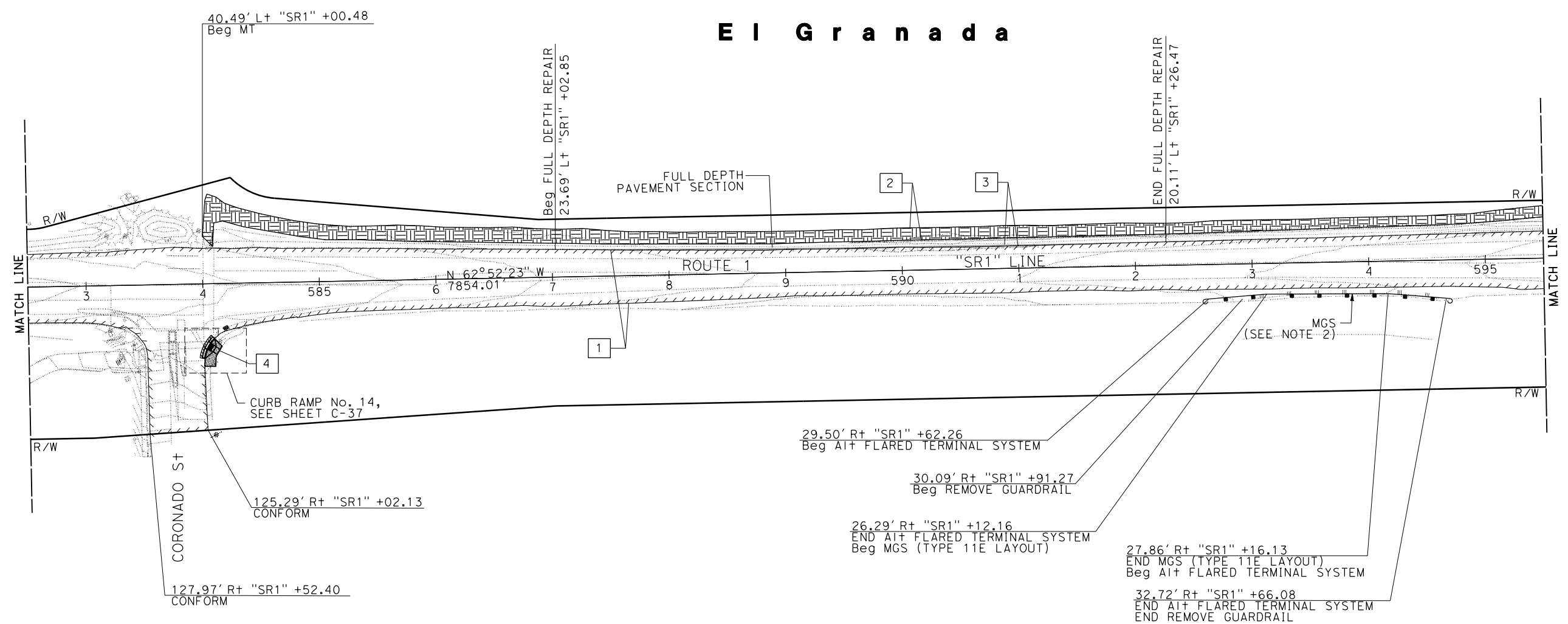
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	1	27.5/34.8	-	-

REGISTERED CIVIL ENGINEER	DATE
	
PLANS APPROVAL DATE	
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>	
AECOM 4 N. SECOND STREET, SUITE 675 SAN JOSE, CA 95113-2254	CALTRANS 111 GRAND AVENUE OAKLAND, CA 94612




# E I G r a n a d a



FOR NOTES, ABBREVIATIONS  
AND LEGEND, SEE SHEET L-1

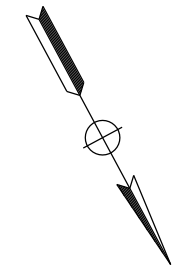
**LAYOUT**  
SCALE: 1" = 50'  
**L-19**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	DESIGNED BY	REVISOR
	SANG KIM	KEVIN KRAMER	KEVIN KRAMER
	CHECKED BY	JASON HOM	JASON HOM
	DATE	DATE	DATE

LAST REVISION | DATE PLOTTED => 14-DEC-2023  
10-27-23 | TIME PLOTTED => 09:16

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 CONSULTANT FUNCTIONAL SUPERVISOR: SANG KIM  
 CALCULATED/DESIGNED BY: KEVIN KRAMER  
 CHECKED BY: JASON HOM  
 REVISED BY: .  
 DATE REVISED: .

**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



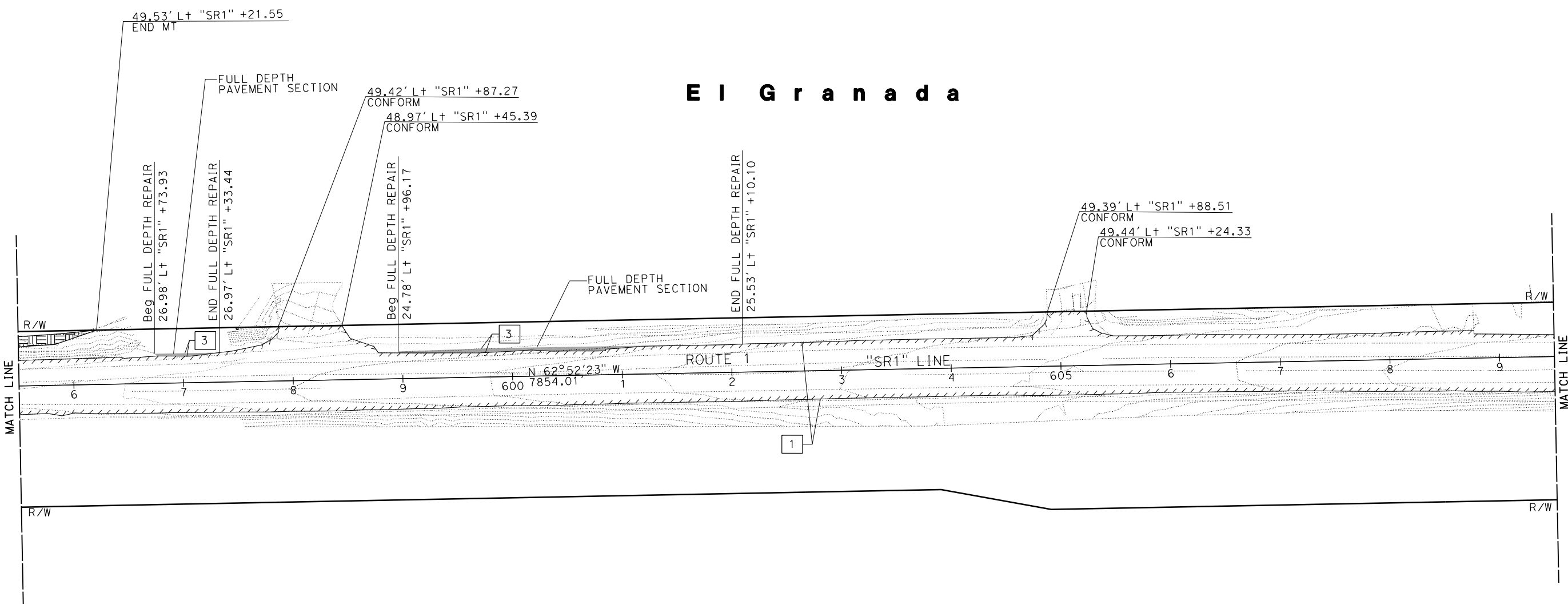
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	1	27.5/34.8	-	-

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_  
 Sang Kim  
 No. C66289  
 Exp. 06-30-24  
 CIVIL  
 STATE OF CALIFORNIA

PLANS APPROVAL DATE \_\_\_\_\_

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FOR NOTES, ABBREVIATIONS  
 AND LEGEND, SEE SHEET L-1

**LAYOUT**  
 SCALE: 1" = 50'  
**L-20**

LAST REVISION | DATE PLOTTED => 14-DEC-2023  
 10-27-23 TIME PLOTTED => 09:16

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 CONSULTANT FUNCTIONAL SUPERVISOR: SANG KIM  
 CALCULATED/DESIGNED BY: KEVIN KRAMER  
 CHECKED BY: JASON HOM  
 REVISED BY: .  
 DATE REVISED: .

**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	1	27.5/34.8	-	-

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_  
 Sang Kim  
 No. C66289  
 Exp. 06-30-24  
 CIVIL  
 STATE OF CALIFORNIA

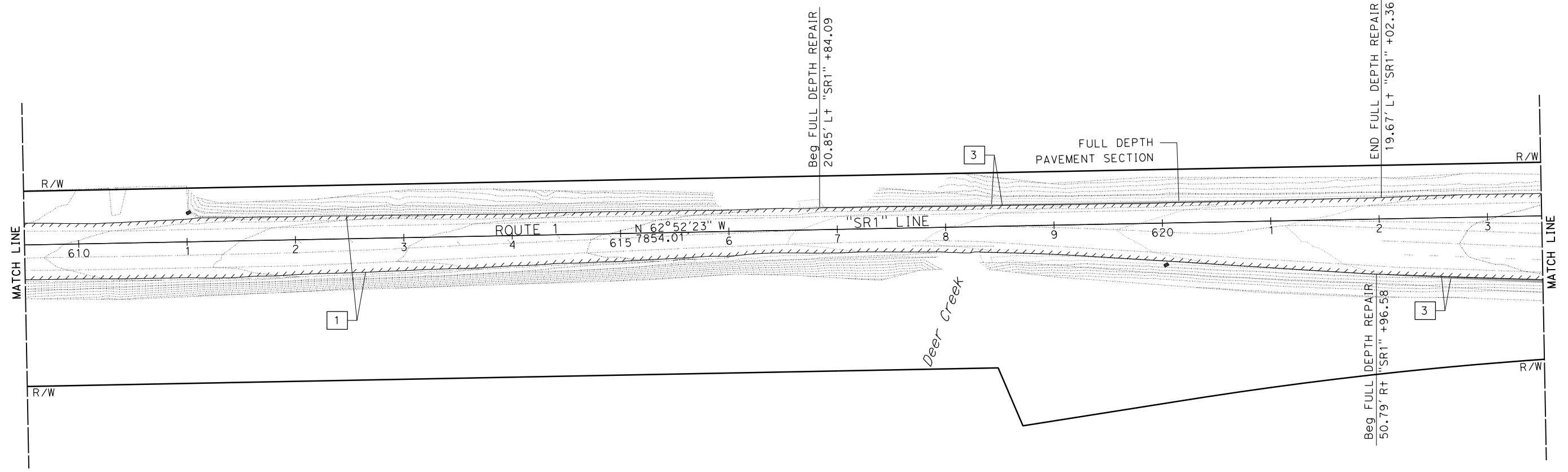
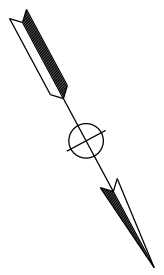
PLANS APPROVAL DATE \_\_\_\_\_

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 SUITE 675  
 SAN JOSE, CA 95113-2254

CALTRANS  
 111 GRAND AVENUE  
 OAKLAND, CA 94612

# E I Granada



FOR NOTES, ABBREVIATIONS  
 AND LEGEND, SEE SHEET L-1

**LAYOUT**  
 SCALE: 1" = 50'  
**L-21**

LAST REVISION | DATE PLOTTED => 14-DEC-2023  
 10-27-23 | TIME PLOTTED => 09:16

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 CONSULTANT FUNCTIONAL SUPERVISOR: SANG KIM  
 CALCULATED/DESIGNED BY: KEVIN KRAMER  
 CHECKED BY: JASON HOM  
 REVISED BY: .  
 DATE REVISED: .

**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	1	27.5/34.8	-	-

REGISTERED CIVIL ENGINEER DATE

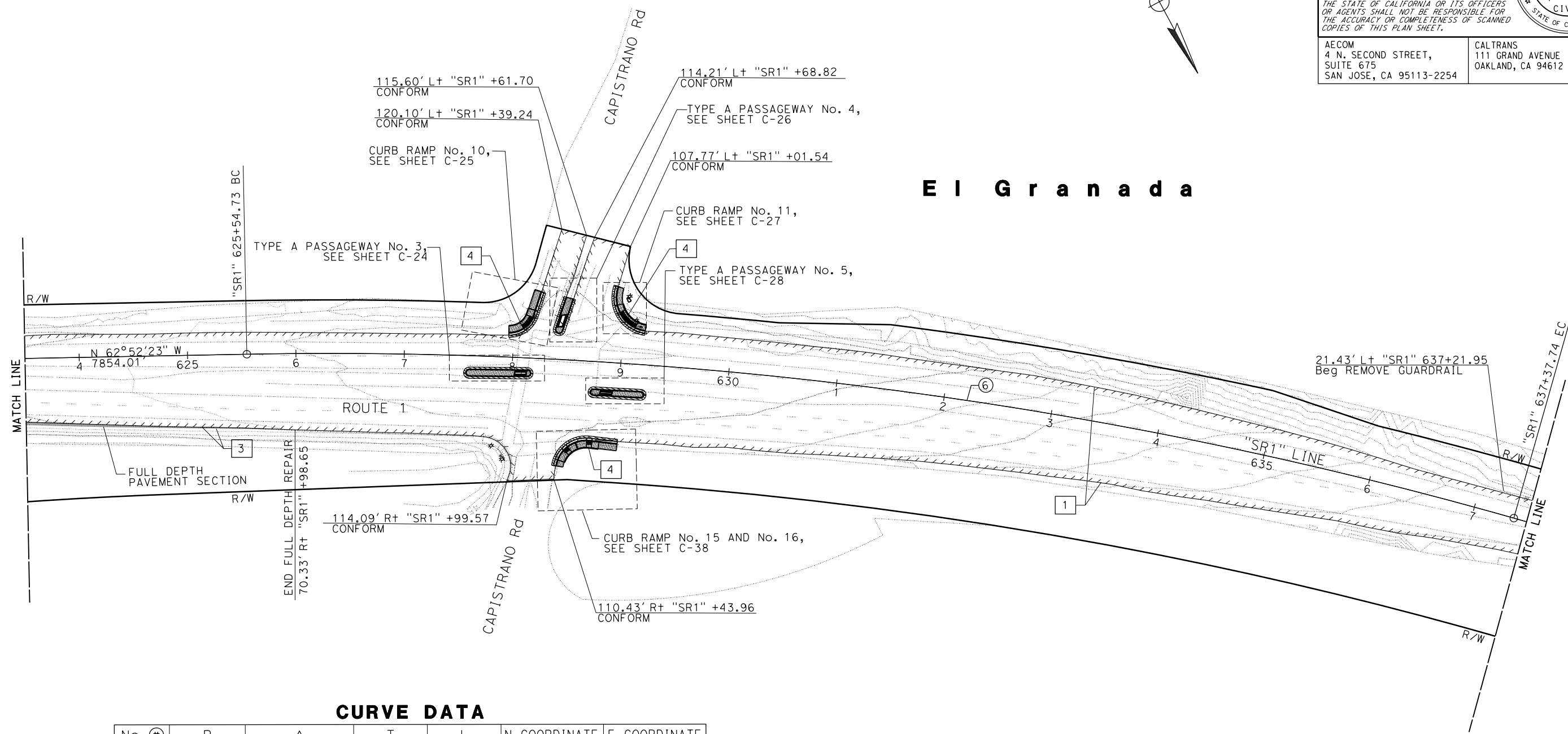
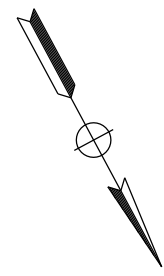
PLANS APPROVAL DATE

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AECOM  
 4 N. SECOND STREET,  
 SUITE 675  
 SAN JOSE, CA 95113-2254

CALTRANS  
 111 GRAND AVENUE  
 OAKLAND, CA 94612

**REGISTERED PROFESSIONAL ENGINEER**  
**Sang Kim**  
 No. C66289  
 Exp. 06-30-24  
 CIVIL  
 STATE OF CALIFORNIA



**CURVE DATA**

No. (Ⓜ)	R	Δ	T	L	N-COORDINATE	E-COORDINATE
6	4000.0'	16°56'43"	595.86'	1183.01'	2015911.011	5989076.445

FOR NOTES, ABBREVIATIONS  
 AND LEGEND, SEE SHEET L-1

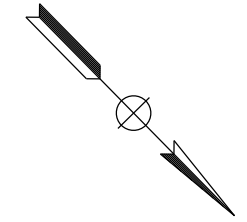
**LAYOUT**  
 SCALE: 1" = 50'  
**L-22**

LAST REVISION DATE PLOTTED => 14-DEC-2023 10-27-23 TIME PLOTTED => 09:17

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 CONSULTANT FUNCTIONAL SUPERVISOR: SANG KIM  
 CALCULATED/DESIGNED BY: KEVIN KRAMER  
 CHECKED BY: JASON HOM  
 REVISED BY: .  
 DATE REVISED: .

**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

**SAN MATEO COUNTY**



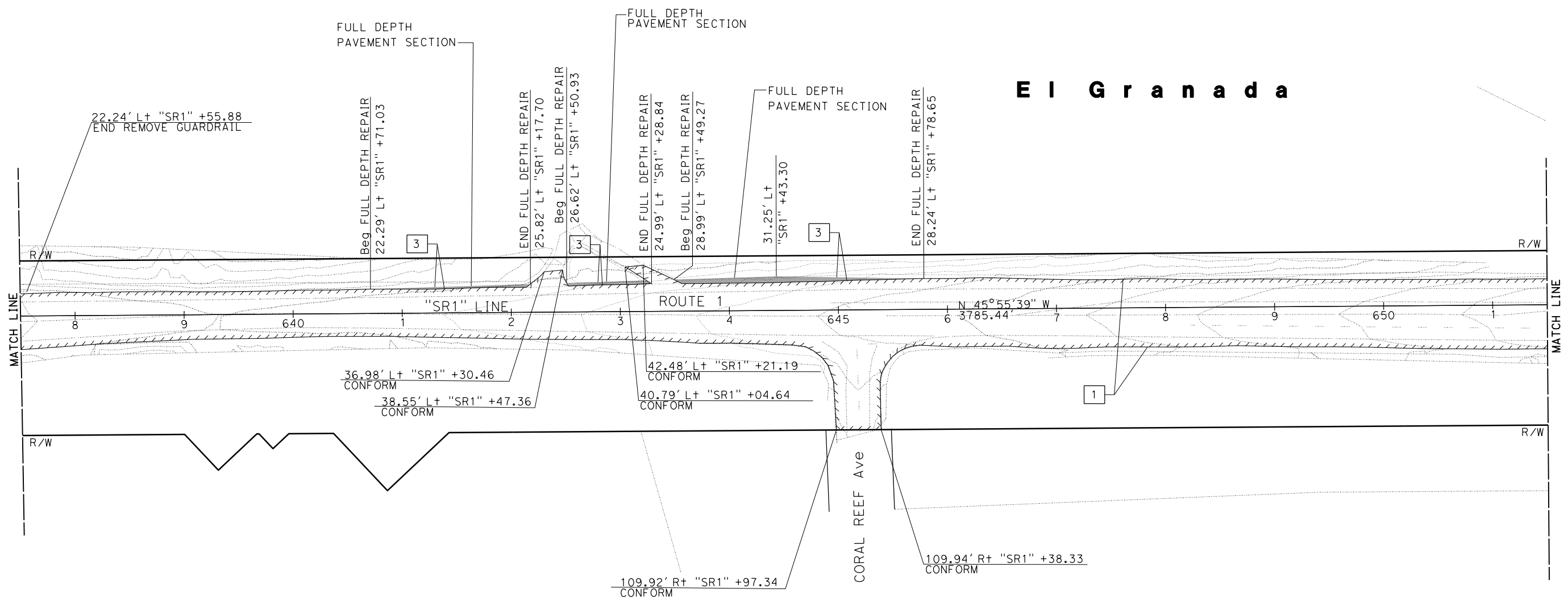
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	1	27.5/34.8	-	-

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_  
 Sang Kim  
 No. C66289  
 Exp. 06-30-24  
 CIVIL  
 STATE OF CALIFORNIA

PLANS APPROVAL DATE \_\_\_\_\_

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AECOM 4 N. SECOND STREET, SUITE 675 SAN JOSE, CA 95113-2254	CALTRANS 111 GRAND AVENUE OAKLAND, CA 94612
--	---



**E I G r a n a d a**

FOR NOTES, ABBREVIATIONS  
 AND LEGEND, SEE SHEET L-1

**LAYOUT**  
 SCALE: 1" = 50'  
**L-23**

LAST REVISION: DATE PLOTTED => 14-DEC-2023 10:27:23 TIME PLOTTED => 09:17



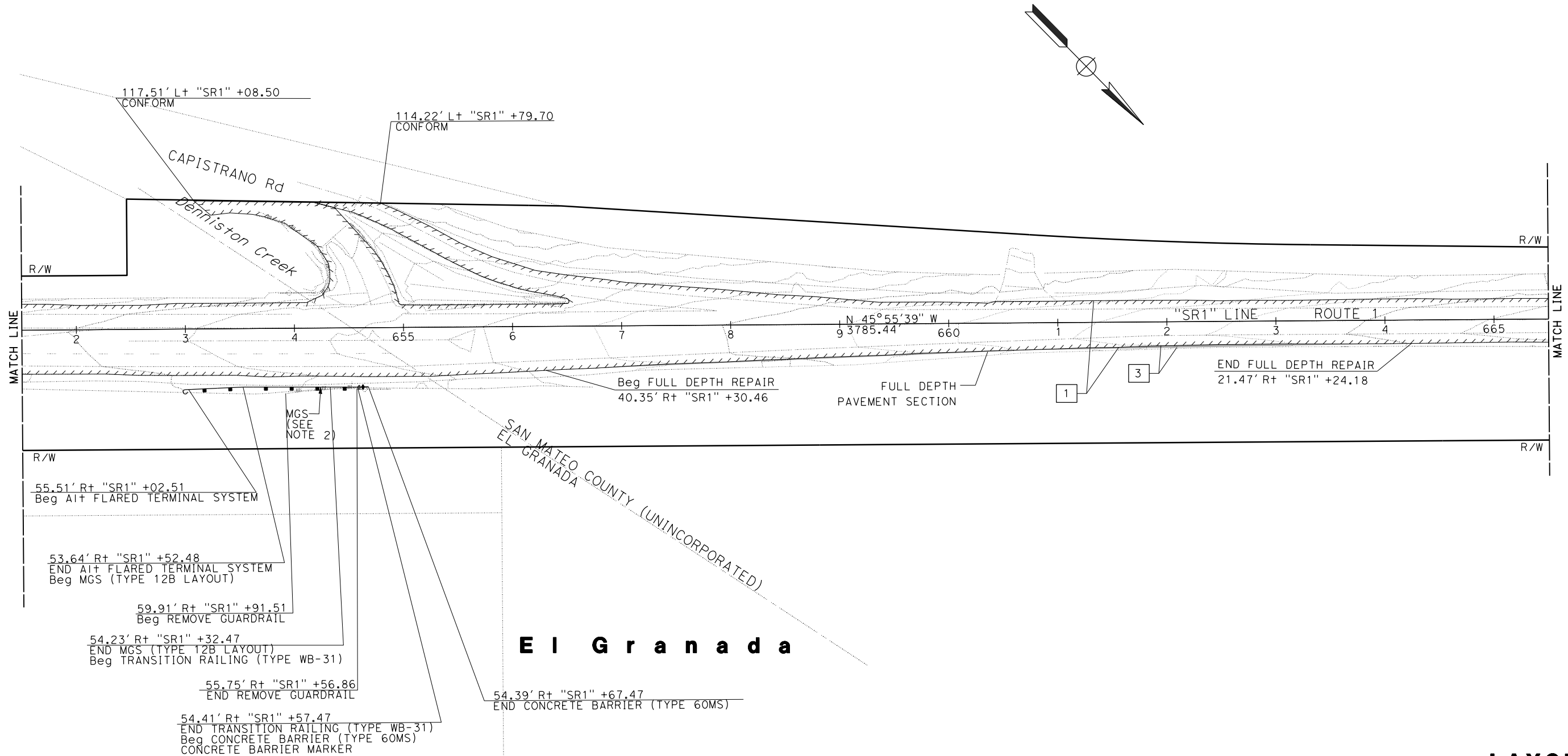
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	1	27.5/34.8	-	-

REGISTERED CIVIL ENGINEER	DATE
PLANS APPROVAL DATE	
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RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR
	SANG KIM	CHECKED BY	DATE REVISED
		KEVIN KRAMER	
		JASON HOM	



FOR NOTES, ABBREVIATIONS  
AND LEGEND, SEE SHEET L-1

**LAYOUT**  
SCALE: 1" = 50'  
**L-24**

LAST REVISION | DATE PLOTTED => 14-DEC-2023  
10-27-23 | TIME PLOTTED => 09:17

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 CONSULTANT FUNCTIONAL SUPERVISOR: SANG KIM  
 CALCULATED/DESIGNED BY: KEVIN KRAMER  
 CHECKED BY: JASON HOM  
 REVISED BY: .  
 DATE REVISED: .

**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	1	27.5/34.8	-	-

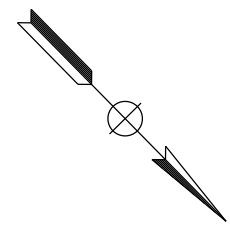
REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_  
 PLANS APPROVAL DATE \_\_\_\_\_

**Sang Kim**  
 No. C66289  
 Exp. 06-30-24  
 CIVIL  
 STATE OF CALIFORNIA

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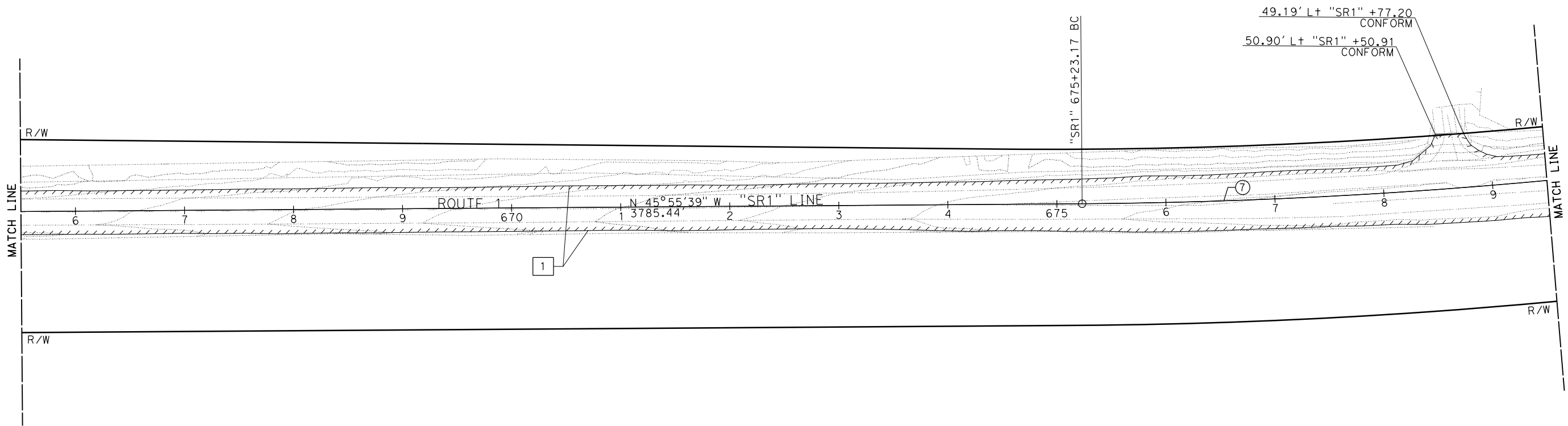
AECOM  
 4 N. SECOND STREET,  
 SUITE 675  
 SAN JOSE, CA 95113-2254

CALTRANS  
 111 GRAND AVENUE  
 OAKLAND, CA 94612



**CURVE DATA**

No. (#)	R	$\Delta$	T	L	N-COORDINATE	E-COORDINATE
7	5000.0'	8°55'09"	389.96'	778.35'	2012077.885	5980096.653



FOR NOTES, ABBREVIATIONS  
 AND LEGEND, SEE SHEET L-1

**LAYOUT**  
 SCALE: 1" = 50'  
**L-25**

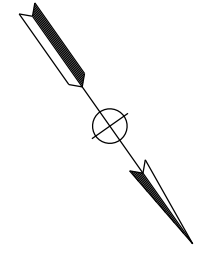
LAST REVISION | DATE PLOTTED => 14-DEC-2023  
 10-27-23 | TIME PLOTTED => 09:17

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 CONSULTANT FUNCTIONAL SUPERVISOR: SANG KIM  
 CALCULATED/DESIGNED BY: KEVIN KRAMER  
 CHECKED BY: JASON HOM  
 REVISED BY: KEVIN KRAMER  
 DATE REVISED: JASON HOM

**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

**CURVE DATA**

No. (⊕)	R	Δ	T	L	N-COORDINATE	E-COORDINATE
7	5000.0'	8°55'09"	389.96'	778.35'	2012077.885	5980096.653



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	1	27.5/34.8	-	-

REGISTERED CIVIL ENGINEER DATE

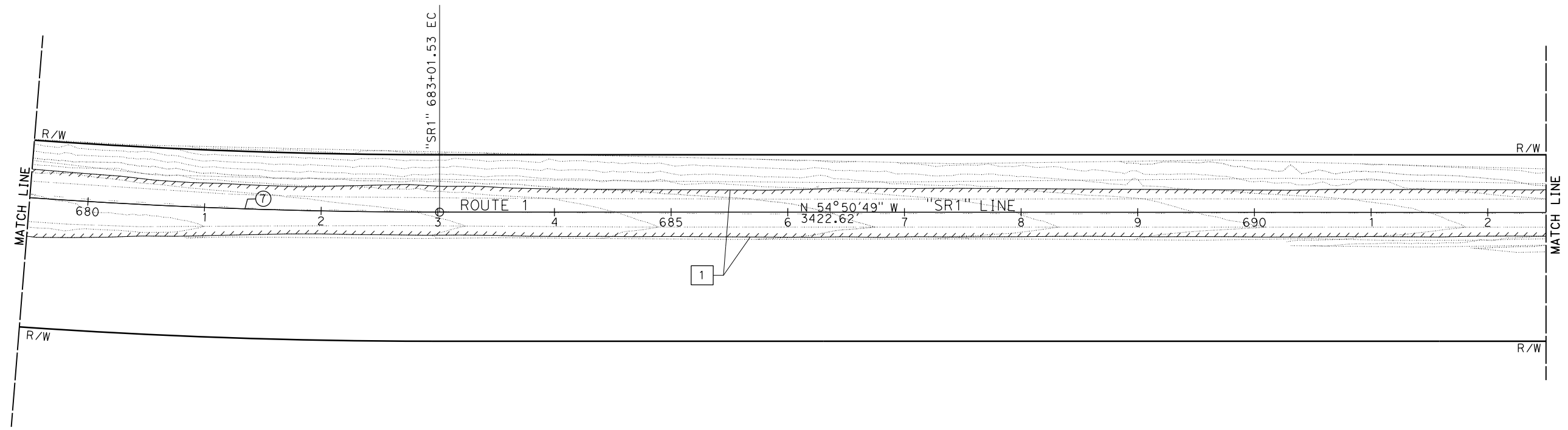
PLANS APPROVAL DATE

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**Sang Kim**  
 No. C66289  
 Exp. 06-30-24  
 CIVIL  
 STATE OF CALIFORNIA



FOR NOTES, ABBREVIATIONS  
 AND LEGEND, SEE SHEET L-1

**LAYOUT**  
 SCALE: 1" = 50'  
**L-26**

LAST REVISION DATE PLOTTED => 14-DEC-2023 10:27:23 TIME PLOTTED => 09:17

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
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 CONSULTANT FUNCTIONAL SUPERVISOR SANG KIM  
 CALCULATED-DESIGNED BY KEVIN KRAMER  
 CHECKED BY JASON HOM  
 REVISED BY  
 DATE REVISED

**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

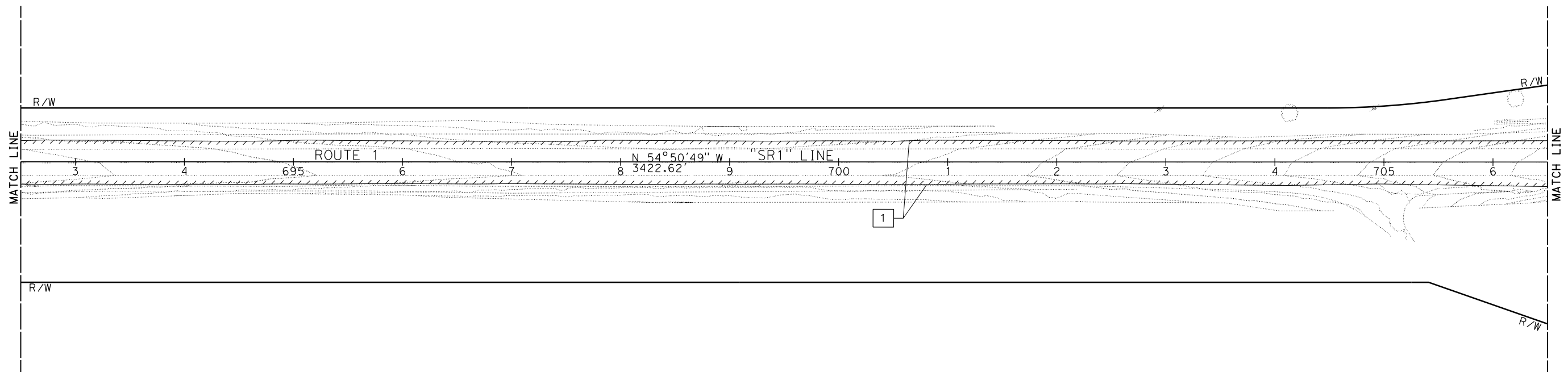
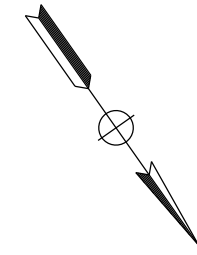
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	1	27.5/34.8	-	-

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_  
 Sang Kim  
 No. C66289  
 Exp. 06-30-24  
 CIVIL  
 STATE OF CALIFORNIA

PLANS APPROVAL DATE \_\_\_\_\_

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--	---



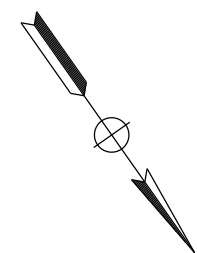
FOR NOTES, ABBREVIATIONS  
 AND LEGEND, SEE SHEET L-1

**LAYOUT**  
 SCALE: 1" = 50'  
**L-27**

LAST REVISION DATE PLOTTED => 14-DEC-2023 10-27-23 TIME PLOTTED => 09:17

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
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 CALCULATED/DESIGNED BY: KEVIN KRAMER  
 CHECKED BY: JASON HOM  
 REVISED BY: .  
 DATE REVISED: .

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	1	27.5/34.8	-	-

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_  
 Sang Kim  
 No. C66289  
 Exp. 06-30-24  
 CIVIL  
 STATE OF CALIFORNIA

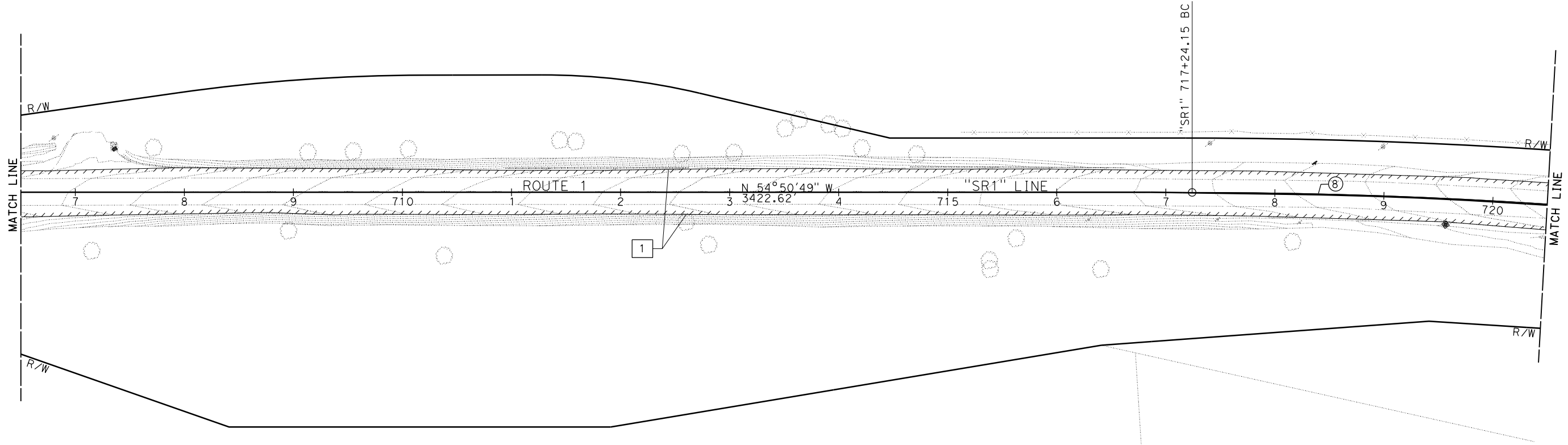
PLANS APPROVAL DATE \_\_\_\_\_

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AECOM 4 N. SECOND STREET, SUITE 675 SAN JOSE, CA 95113-2254	CALTRANS 111 GRAND AVENUE OAKLAND, CA 94612
--	---

**CURVE DATA**

No. (⊕)	R	Δ	T	L	N-COORDINATE	E-COORDINATE
8	5000.0'	15°31'20"	681.46'	1354.58'	2022224.668	5983055.902



FOR NOTES, ABBREVIATIONS  
 AND LEGEND, SEE SHEET L-1

**LAYOUT**  
 SCALE: 1" = 50'  
**L-28**

LAST REVISION | DATE PLOTTED => 14-DEC-2023  
 10-27-23 TIME PLOTTED => 09:17

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 CONSULTANT FUNCTIONAL SUPERVISOR: SANG KIM  
 CALCULATED/DESIGNED BY: KEVIN KRAMER  
 CHECKED BY: JASON HOM  
 REVISED BY: KEVIN KRAMER  
 DATE REVISED: JASON HOM

**NOTE:**  
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 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

**CURVE DATA**

No. (#)	R	Δ	T	L	N-COORDINATE	E-COORDINATE
8	5000.0'	15°31'20"	681.46'	1354.58'	2022224.668	5983055.902

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	1	27.5/34.8	-	-

REGISTERED CIVIL ENGINEER DATE

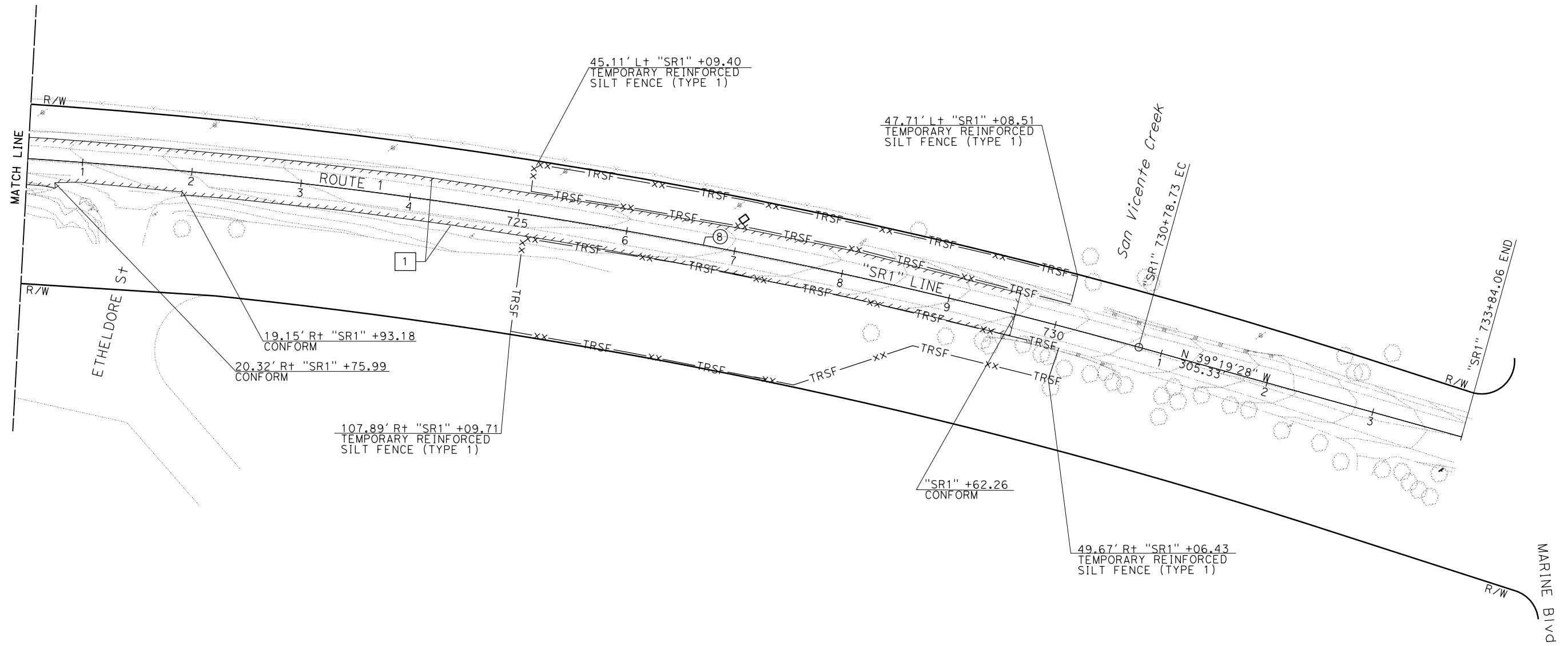
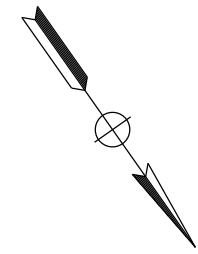
PLANS APPROVAL DATE

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AECOM  
 4 N. SECOND STREET,  
 SUITE 675  
 SAN JOSE, CA 95113-2254

CALTRANS  
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 OAKLAND, CA 94612

**Sang Kim**  
 No. C66289  
 Exp. 06-30-24  
 CIVIL  
 STATE OF CALIFORNIA



FOR NOTES, ABBREVIATIONS  
 AND LEGEND, SEE SHEET L-1

**LAYOUT**  
 SCALE: 1" = 50'  
**L-29**

LAST REVISION DATE PLOTTED => 14-DEC-2023 10-27-23 TIME PLOTTED => 09:17

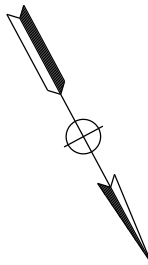
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	1	27.5/34.8	-	-

REGISTERED CIVIL ENGINEER	DATE
<b>Sang Kim</b>	
No. C66289	
Exp. 06-30-24	
CIVIL	
STATE OF CALIFORNIA	

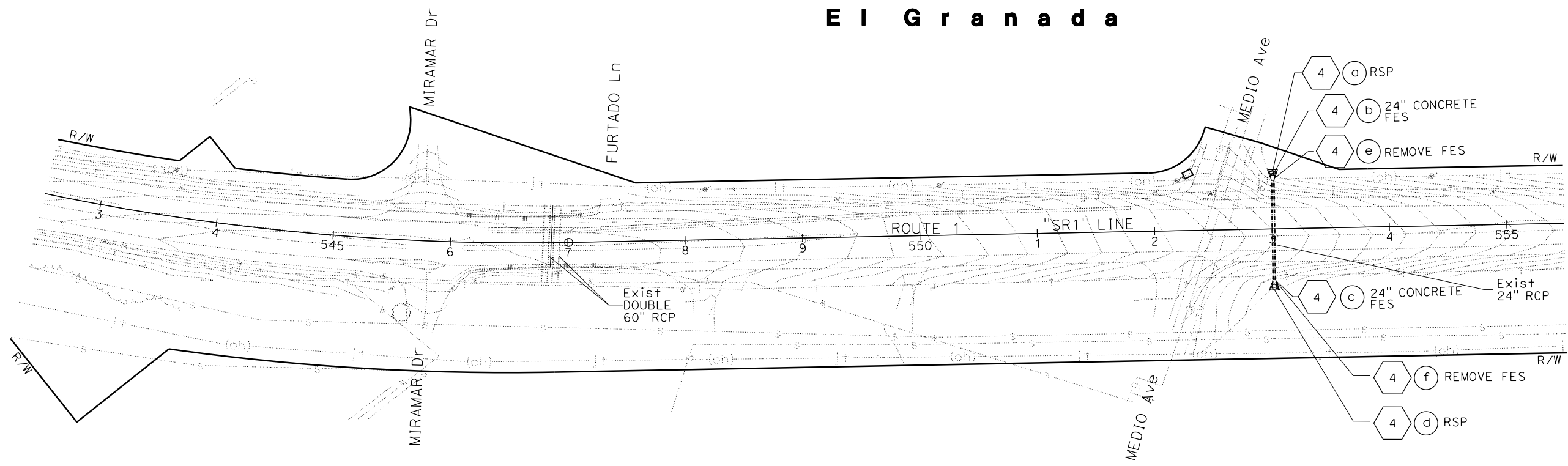
  

PLANS APPROVAL DATE	
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**NOTE:**  
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR	DATE
<b>Caltrans</b>	SANG KIM	CHECKED BY	KEVIN KRAMER	
			NELSON HOM	



**E I G r a n a d a**

FOR NOTES AND LEGEND, SEE SHEET D-1

APPROVED FOR DRAINAGE WORK ONLY

**DRAINAGE PLAN**  
SCALE: 1" = 50'

**D-3**

LAST REVISION | DATE PLOTTED => 30-OCT-2023  
10-27-23 | TIME PLOTTED => 13:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	1	27.5/34.8	-	-

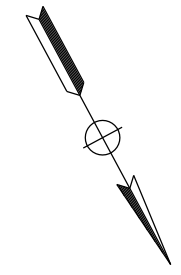
  

REGISTERED CIVIL ENGINEER	DATE
<b>Sang Kim</b>	
No. C66289	
Exp. 06-30-24	
CIVIL	
STATE OF CALIFORNIA	

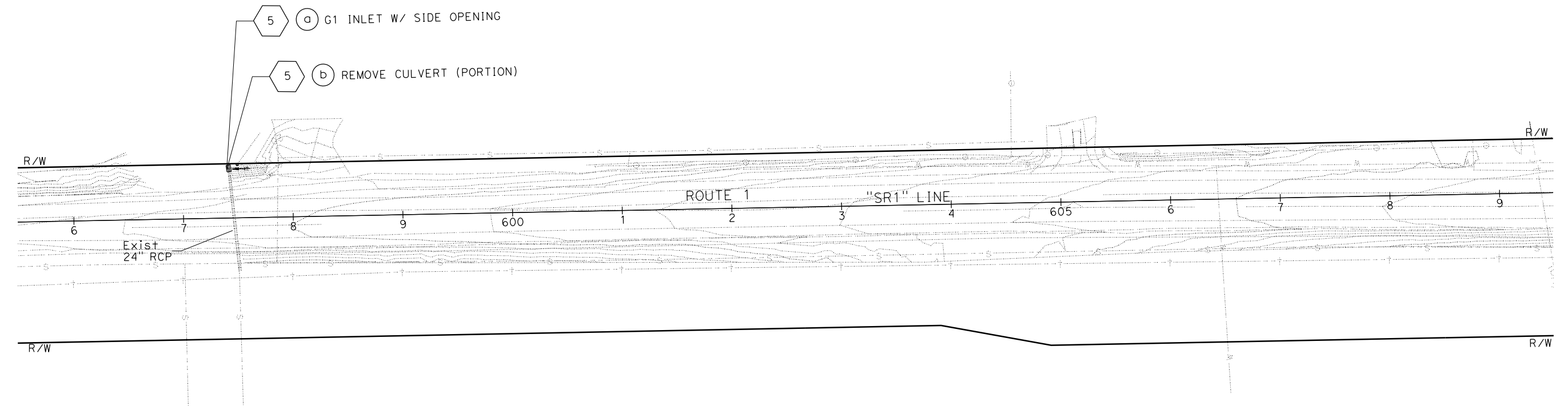
PLANS APPROVAL DATE	
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**NOTE:**  
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	KEVIN KRAMER	REVISOR	DATE
<b>Caltrans</b>	SANG KIM	CHECKED BY	NELSON HOM		

# E I G r a n a d a



FOR NOTES AND LEGEND, SEE SHEET D-1

## DRAINAGE PLAN

SCALE: 1" = 50'

APPROVED FOR DRAINAGE WORK ONLY

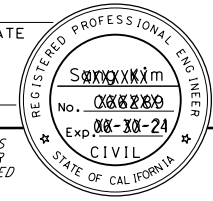
**D-4**

LAST REVISION | DATE PLOTTED => 30-OCT-2023  
10-27-23 | TIME PLOTTED => 13:12



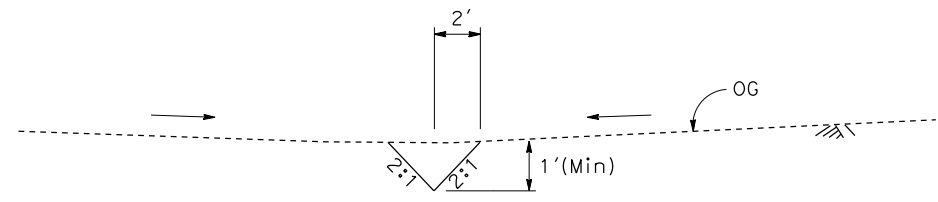
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	1	27.5/34.8	-	-

REGISTERED CIVIL ENGINEER	DATE
	
PLANS APPROVAL DATE	
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>	
AECOM 4 N. SECOND STREET, SUITE 675 SAN JOSE, CA 95113-2254	CALTRANS 111 GRAND AVENUE OAKLAND, CA 94612

**NOTE:**

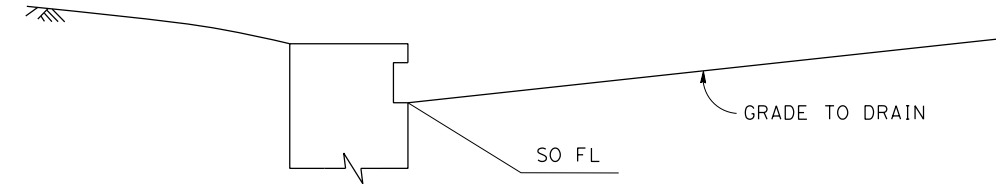
FOR G1 INLET DETAILS NOT SHOWN SEE STANDARD PLAN D73B, D73C, D73F, D73G, AND D77B.



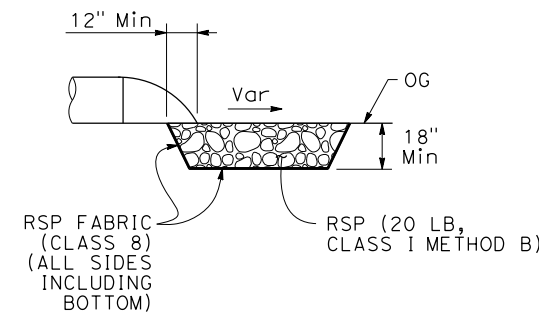
~~UNLINED DITCH (TYPICAL)~~



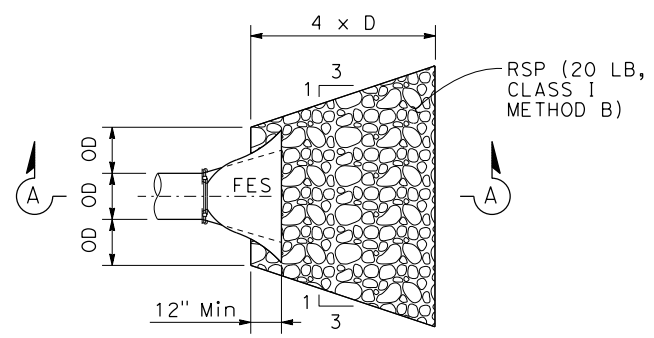
Not in San Mateo County LCP



SECTION B-B

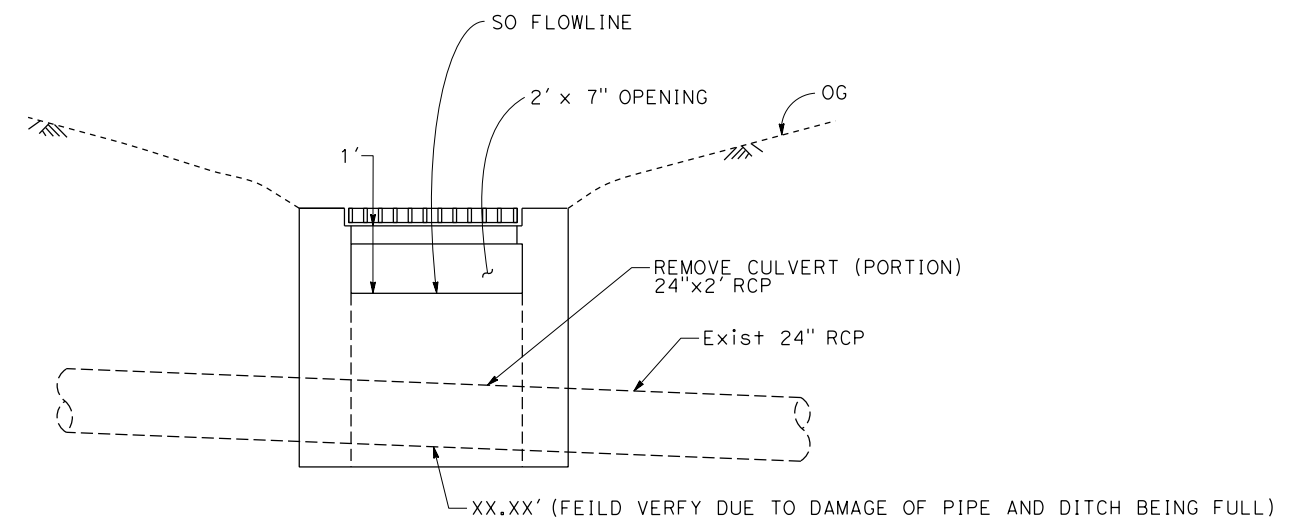


SECTION A-A

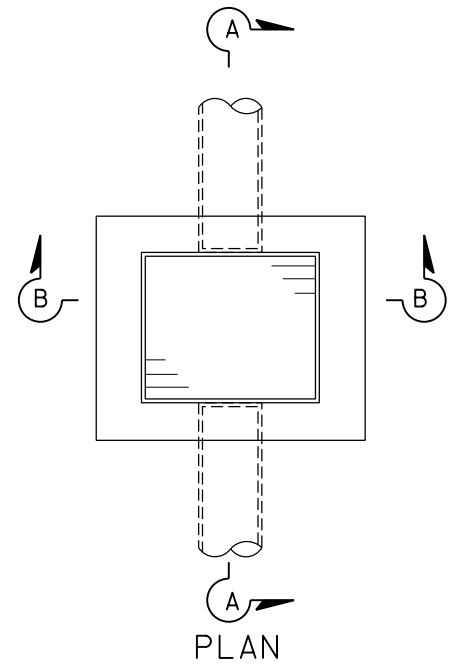


PLAN CULVERT WITH END SECTION

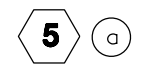
**RSP DETAIL**  
VARIOUS LOCATIONS




SECTION A-A



PLAN G1 W/SIDE OPENING



**DRAINAGE DETAILS**  
**DD-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
	SANG KIM	CHECKED BY	DATE
		KEVIN KRAMER	REVISOR
		NELSON HOM	DATE

LAST REVISION | DATE PLOTTED => 30-OCT-2023 | TIME PLOTTED => 13:14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	1	27.5/34.8	-	-

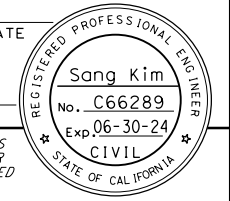
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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AECOM  
4 N. SECOND STREET,  
SUITE 675  
SAN JOSE, CA 95113-2254

CALTRANS  
111 GRAND AVENUE  
OAKLAND, CA 94612



### DRAINAGE QUANTITIES

DRAINAGE SYSTEM No.	DRAINAGE UNIT	RSP (150LB CLASS III, METHOD B) (CY)	ROCK SLOPE PROTECTION FABRIC (CLASS 8)	18" REINFORCED CONCRETE PIPE	18" CONCRETE FLARED END SECTION	24" CONCRETE FLARED END SECTION	REMOVE CULVERT (LF)	REMOVE FLARED END SECTION (EA)	DITCH EXCAVATION	DRAINAGE INLET MARKER	STRUCTURAL CONCRETE, DRAINAGE INLET	INLET FRAME AND GRATE	MISCELLANEOUS IRON AND STEEL	FRAME AND GRATE (TYPE 24-12) (N)	HEIGHT OF INLET "H" (N)	DESCRIPTION	STATION	
		CY	SQYD	LF	EA	EA	LF	EA	CY	EA	CY	EA	EA	EA	EA			EA
1	a	2.2	4.3													RSP	62.02' Lt "SR1" 377+37	
	b				1											18" CONCRETE FES	62.02' Lt "SR1" 377+37	
	c															18" RCP	35.98' Rt "SR1" 377+37 TO 62.02' Lt "SR1" 377+37	
	d				1											18" CONCRETE FES	35.98' Rt "SR1" 377+37	
	e															RSP	35.98' Rt "SR1" 377+37	
	f							95									REMOVE CULVERT	35.98' Rt "SR1" 377+37 TO 62.02' Lt "SR1" 377+37
	g								1								REMOVE FES	35.98' Rt "SR1" 377+37
2	h								54								UNLINED DITCH	32.96' Rt "SR1" 376+60 TO 31.60' Rt "SR1" 380+85
	a	2.2	4.3													RSP	53.03' Lt "SR1" 387+04	
	b				1											18" CONCRETE FES	53.03' Lt "SR1" 387+04	
	c			85												18" RCP	27.83' Rt "SR1" 386+82 TO 53.03' Lt "SR1" 387+04	
	d				1											18" CONCRETE FES	27.83' Rt "SR1" 386+82	
	e	2.2	4.3													RSP	27.83' Rt "SR1" 386+82	
	f							85									REMOVE CULVERT	27.83' Rt "SR1" 386+82 TO 53.03' Lt "SR1" 387+04
3	g							1								REMOVE FES	27.83' Rt "SR1" 386+82	
	a	2.2	4.3													RSP	73.96' Lt "SR1" 389+42	
	b				1											18" CONCRETE FES	73.96' Lt "SR1" 389+42	
	c			109												18" RCP	35.18' Rt "SR1" 389+42 TO 73.96' Lt "SR1" 389+42	
	d				1											18" CONCRETE FES	35.18' Rt "SR1" 389+42	
	e	2.2	4.3													RSP	35.18' Rt "SR1" 389+42	
	f							109									REMOVE CULVERT	35.18' Rt "SR1" 389+42 TO 73.96' Lt "SR1" 389+42
4	g							1								REMOVE FES	35.18' Rt "SR1" 389+42	
	a	3.9	7.7													RSP	47.10' Lt "SR1" 553+04	
	b					1										24" CONCRETE FES	47.10' Lt "SR1" 553+04	
	c					1										24" CONCRETE FES	44.68' Rt "SR1" 553+01	
	d	3.9	7.7													RSP	44.68' Rt "SR1" 553+01	
	e								1							REMOVE FES	47.10' Lt "SR1" 553+04	
5	f							1								REMOVE FES	44.68' Rt "SR1" 553+01	
	a									1	1.5	1	263	1	5.1	G1 INLET W/ SIDE OPENING	43.95' Lt "SR1" 597+40	
	b						5									REMOVE CULVERT (PORTION)	43.95' Lt "SR1" 597+47	
TOTAL		21	41.2	289	6	2	294	5	54	1	1.5	1	263	1	5.1			

Not in San Mateo County LCP

(N) - NOT A SEPARATE BID ITEM

### DRAINAGE QUANTITIES

DQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 CONSULTANT FUNCTIONAL SUPERVISOR  
 KEVIN KRAMER  
 NELSON HOM  
 SANG KIM  
 REVISOR BY  
 DATE REVISOR  
 CALULATED-DESIGNED BY  
 CHECKED BY  
 AECOM  
 CALTRANS  
 4 N. SECOND STREET, SUITE 675, SAN JOSE, CA 95113-2254  
 111 GRAND AVENUE, OAKLAND, CA 94612

LAST REVISION DATE PLOTTED => 30-OCT-2023    10-27-23    TIME PLOTTED => 13:14

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT  
 KIMBERLY WHITE  
 CALCULATED-DESIGNED BY  
 CHECKED BY  
 CHRIS PADICK  
 ALEX MCDONALD  
 REVISED BY  
 DATE REVISED  
 CP

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	1	27.5/34.8		

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

11-30-24  
Date

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**EROSION CONTROL TYPE 1**

SEQUENCE	ITEM	MATERIAL		APPLICATION RATE	DEPTH	REMARKS
		DESCRIPTION	TYPE			
STEP 1	HYDROSEED	SEED	MIX 1	40 LB/ACRE		
		FIBER	WOOD	2000 LB/ACRE		
STEP 2	HYDROMULCH	FIBER	WOOD	2000 LB/ACRE		
		TACKIFIER	PSYLLIUM	200 LB/ACRE		

**SEED MIX**

SEED	BOTANICAL NAME	PERCENT GERMINATION	POUNDS PURE LIVE SEED PER ACRE
MIX 1	ACHILLEA MILLEFOLIUM (WHITE YARROW)	56	7
	BROMUS CARINATUS (CALIFORNIA BROME)	75	5
	ELYMUS GLAUCUS, BERKELEY (BLUE WILDRYE, BERKELEY)	56	5
	FESTUCA MICROSTACHYS (SMALL FESCUE)	53	6
	HORDEUM BRACHYANTHERUM (MEADOW BARLEY)	53	5
	STIPA PULCHRA (PURPLE NEEDLEGRASS)	55	6
	VULPIA MICROSTACHYS (SMALL FESCUE)	56	6

**EROSION CONTROL TYPE 2**

SEQUENCE	ITEM	MATERIAL		APPLICATION RATE	DEPTH	REMARKS
		DESCRIPTION	TYPE			
STEP 1	ROLLED EROSION CONTROL PRODUCT (NETTING)	100% WOVEN COIR (COCONUT FIBER)	A			
STEP 2	HYDROSEED	SEED	MIX 1	40 LB/ACRE		
		FIBER	WOOD	2000 LB/ACRE		
STEP 3	HYDROMULCH	FIBER	WOOD	2000 LB/ACRE		
		TACKIFIER	PSYLLIUM	200 LB/ACRE		

**FIBER ROLLS**

SEQUENCE	ITEM	MATERIAL		REMARKS
		DESCRIPTION	TYPE	
	FIBER ROLLS	RICE STRAW FILLED AND JUTE COVERED	8 TO 10 INCHES IN Dia	INSTALLATION TYPE 2


FIBER ROLLS MUST BE INSTALLED AFTER ROLLED EROSION CONTROL PRODUCT (NETTING) AND BEFORE HYDROSEEDING

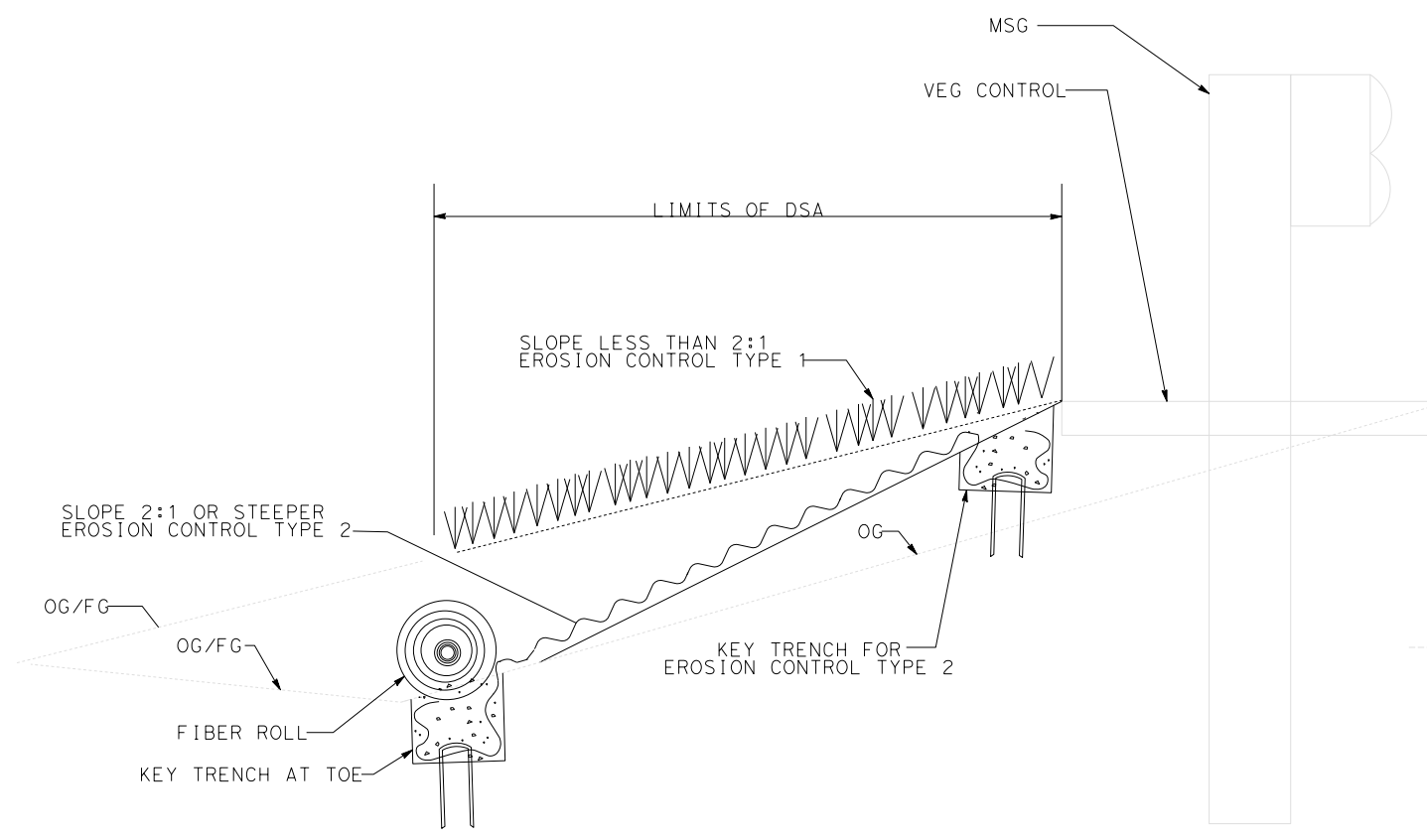
**EROSION CONTROL LEGEND  
ECL-1**



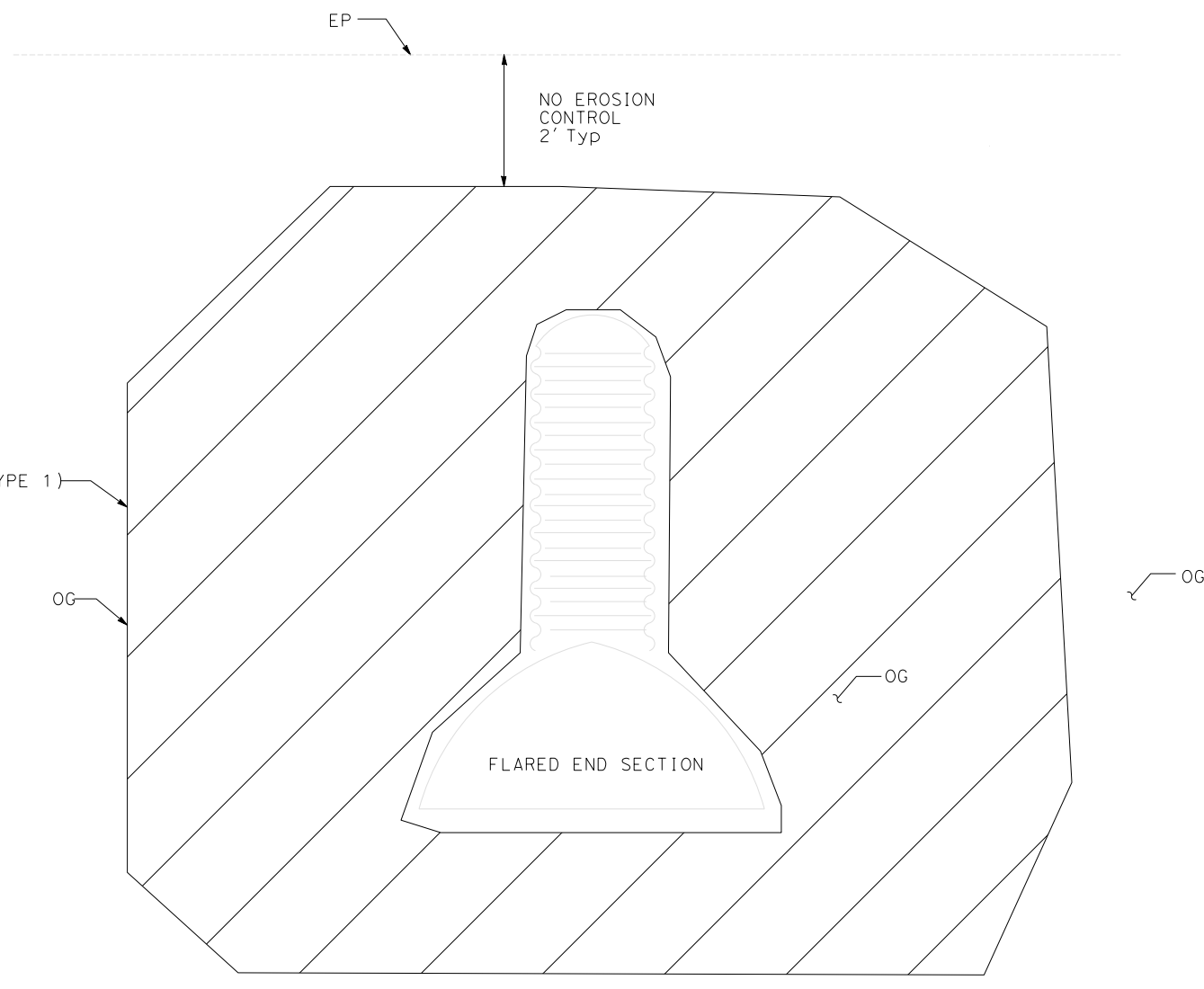
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	1	27.5/34.8		

LICENSING INFORMATION	
LICENSED LANDSCAPE ARCHITECT	
PLANS APPROVAL DATE	
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>	



SECTION  
**EROSION CONTROL AT MSG**



PLAN  
**EROSION CONTROL TYPE 1 AT FES-SLOPED AREAS LESS THAN 2:1**

**EROSION CONTROL DETAIL  
ECD-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** LANDSCAPE ARCHITECTURE

CALCULATED-DESIGNED BY	CHECKED BY
CHRIS PADICK	ALEX MCDONALD
REVISOR	DATE
CP	REVISED

SENIOR LANDSCAPE ARCHITECT  
KIMBERLY WHITE

BORDER LAST REVISED 9/8/2021

USERNAME => ...Necd-0418000053+f001.dgn



UNIT 0000

PROJECT NUMBER & PHASE 0418000053

LAST REVISION | DATE PLOTTED => 10/12/2023  
10-12-23 | TIME PLOTTED => 3:02:24 PM

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT  
 KIMBERLY WHITE

CALCULATED-DESIGNED BY  
 CHECKED BY

CHRIS PADICK  
 ALEX MCDONALD

REVISOR BY  
 DATE REVISED

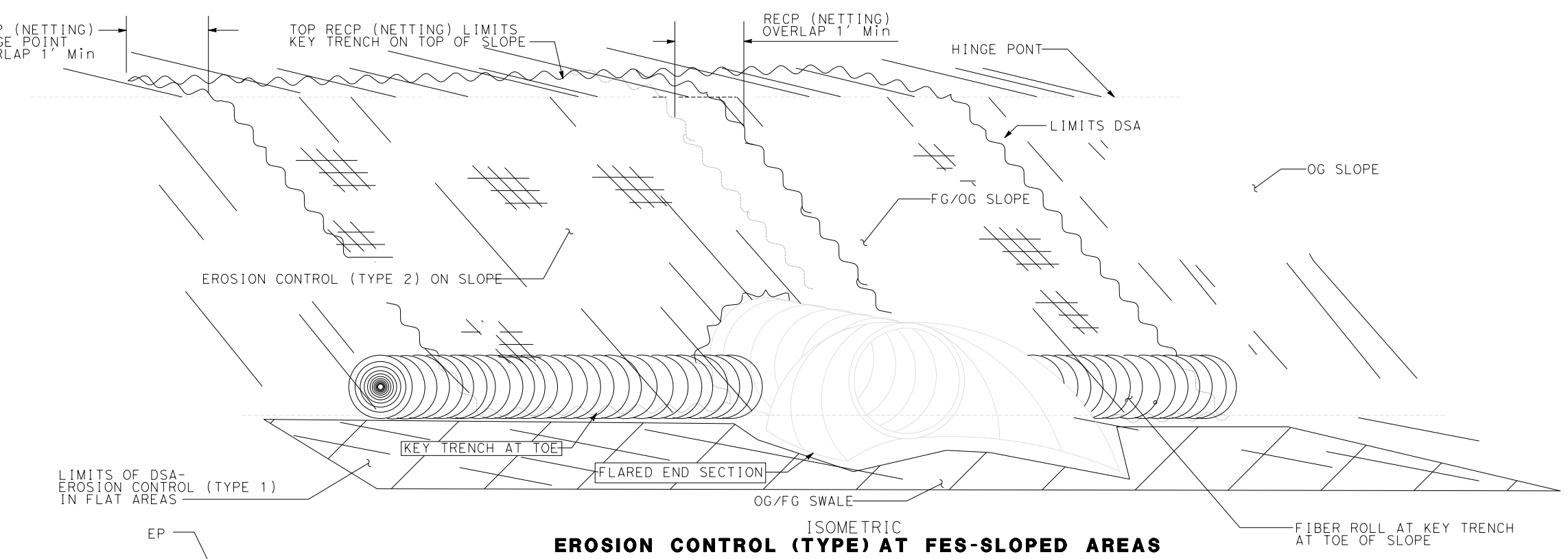
CP

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	1	27.5/34.8		

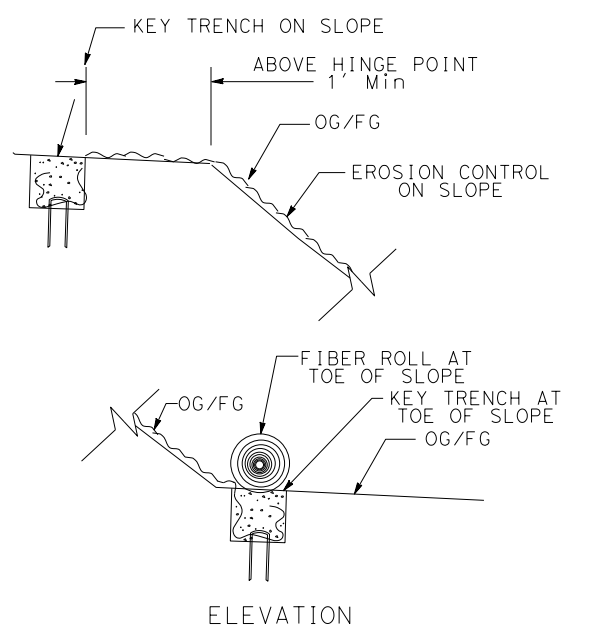
LICENSED LANDSCAPE ARCHITECT  
 Chris Padick No. 4195  
 Signature: *Chris Padick*  
 11-30-24  
 Renewal Date  
 Date  
 STATE OF CALIFORNIA

PLANS APPROVAL DATE

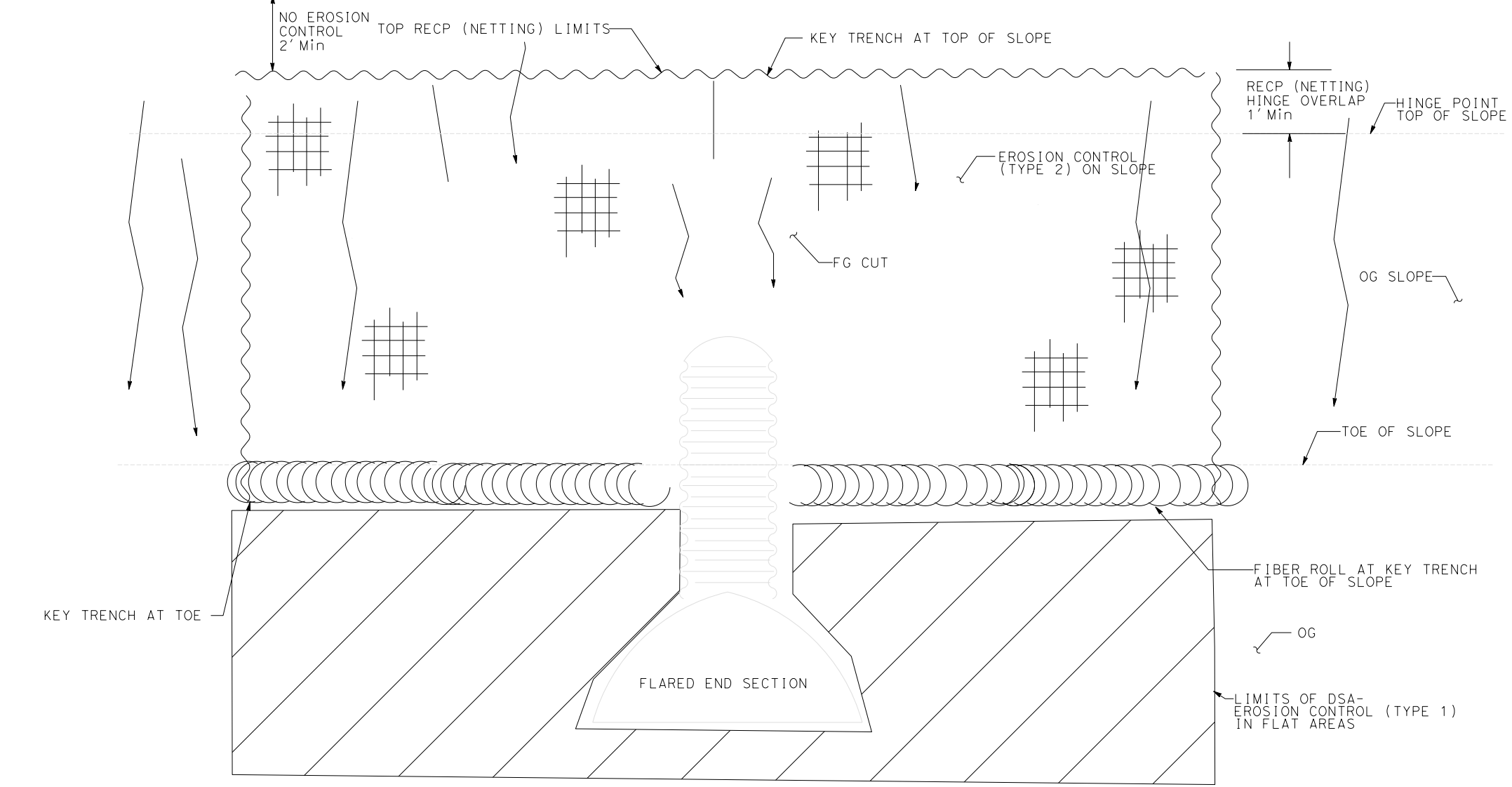
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**ISOMETRIC EROSION CONTROL (TYPE 1) AT FES-SLOPED AREAS**



**KEY TRENCH-SLOPED AREAS ELEVATION**



**PLAN EROSION CONTROL (TYPE 2) AT FES-SLOPED AREAS**


**EROSION CONTROL DETAIL ECD-2**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	1	27.5/34.8		

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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### EROSION CONTROL QUANTITIES

SHEET NO.	LOCATION	DESCRIPTION	ROLLED EROSION CONTROL PRODUCT (NETTING)	FIBER ROLLS	HYDROSEED	HYDROMULCH	HYDROSEED MATERIALS (N)			HYDROMULCH MATERIALS (N)		REMARKS				
							MOVE-IN/ MOVE-OUT	MIX 1	FIBER	FIBER	TACKIFIER					
													EA	LB	LB	LB
<del>D-1</del>	<del>"SR1" LINE 376+00-380+05</del>	Rt			2200	2200						FOR DRAINAGE SYSTEM 1-UNLINED DITCH				
<del>D-1</del>	<del>"SR1" LINE 376+00-377+00</del>	Lt		20	200	200						0.18	9.2	9.2	0.92	FOR DRAINAGE SYSTEM 1-SEE EC DETAILS
<del>D-1</del>	<del>"SR1" LINE 376+00-377+00</del>	Rt	200	20	200	200						0.18	9.2	9.2	0.92	FOR DRAINAGE SYSTEM 1-SEE EC DETAILS
<del>L-1</del>	<del>"SR1" LINE 387+30-387+00</del>	Lt			600	600						0.55	27.6	27.6	2.76	SEE ECD-1 EROSION CONTROL AT MGS DETAIL
<del>D-2</del>	<del>"SR1" LINE 386+00-387+10</del>	Rt	200	20	200	200						0.18	9.2	9.2	0.92	FOR DRAINAGE SYSTEM 2-SEE EC DETAILS
<del>L-1</del>	<del>"CD1" LINE 386+05-387+15</del>	Lt			200	200						0.18	9.2	9.2	0.92	FOR DRAINAGE SYSTEM 2-SEE EC DETAILS
<del>D-2</del>	<del>"SR1" LINE 387+75-389+00</del>	Lt			600	600						0.55	27.6	27.6	2.76	SEE ECD-1 EROSION CONTROL AT MGS DETAIL
<del>D-2</del>	<del>"SR1" LINE 389+30-389+00</del>	Rt	600	20	600	600						0.55	27.6	27.6	2.76	FOR DRAINAGE SYSTEM 3-SEE EC DETAILS
<del>L-1</del>	<del>"SR1" LINE 389+05-389+00</del>	Lt			600	600						0.55	27.6	27.6	2.76	FOR DRAINAGE SYSTEM 3-SEE EC DETAILS
<del>L-1</del>	<del>"SR1" LINE 400+00-403+75</del>	Rt			400	400						0.37	18.4	18.4	1.84	
<del>L-1</del>	<del>"CD1" LINE 400+50-400+50</del>	Lt			600	600						0.55	27.6	27.6	2.76	
<del>L-8</del>	<del>"CD1" LINE 400+50-410+00</del>	Rt			100	100						0.14	4.6	4.6	0.46	
<del>L-8</del>	<del>"CD1" LINE 410+40-410+40</del>	Rt			300	300						0.27	13.8	13.8	1.38	
<del>L-1</del>	<del>"CD1" LINE 421+60-423+70</del>	Lt			300	300						0.27	13.8	13.8	1.38	
<del>L-1</del>	<del>"CD1" LINE 421+60-423+70</del>	Rt	EC TYPE 1		400	400						0.37	18.4	18.4	1.84	
<del>L-1</del>	<del>"CD1" LINE 480+00-480+50</del>	Lt			100	100						0.09	4.6	4.6	0.46	
<del>L-16</del>	<del>"CD1" LINE 480+50-484+05</del>	Rt			1,800	1,800						2.52	82.8	82.8	8.28	
<del>L-16</del>	<del>"CD1" LINE 480+75-483+15</del>	Rt			900	900						1.26	41.4	41.4	4.14	
<del>L-17</del>	<del>"CD1" LINE 503+40-503+50</del>	Lt			100	100						0.56	18.4	18.4	1.84	SEE ECD-1 EROSION CONTROL AT MGS DETAIL
<del>L-17</del>	<del>"CD1" LINE 503+50-504+00</del>	Lt			450	450						0.42	20.7	20.7	2.07	
<del>L-1</del>	<del>"CD1" LINE 510+50-521+27</del>	Rt			400	400						0.37	18.4	18.4	1.84	
<del>L-1</del>	<del>"CD1" LINE 520+75-530+00</del>	Rt	EC TYPE 2	400	20	400	400					0.37	18.4	18.4	1.84	
<del>L-1</del>	<del>"CD1" LINE 528+35-530+10</del>	Rt		400	20	400	400					0.37	18.4	18.4	1.84	
L-16	"SR1" LINE 546+05-547+90	Lt			450	450						0.42	20.7	20.7	2.07	
	"SR1" LINE 546+15-548+00	Rt			450	450						0.42	20.7	20.7	2.07	
D-3	"SR1" LINE 552+85-553+15	Lt			400	400						0.56	18.4	18.4	1.84	FOR DRAINAGE SYSTEM 4-SEE EC DETAILS
L-19	"SR1" LINE 552+90-553+10	Lt			400	400						0.37	18.4	18.4	1.84	
D-4	"SR1" LINE 592+60-594+70	Rt	EC TYPE 1		450	450						0.42	20.7	20.7	2.07	SEE ECD-1 EROSION CONTROL AT MGS DETAIL
D-4	"SR1" LINE 597+40-597+60	Lt			400	400						0.37	18.4	18.4	1.84	FOR DRAINAGE SYSTEM 5-SEE EC DETAILS
L-24	"SR1" LINE 653+05-654+95	Rt			450	450						0.42	20.7	20.7	2.07	
	"SR1" LINE 653+15-654+20	Lt			450	450						0.42	20.7	20.7	2.07	SEE ECD-1 EROSION CONTROL AT MGS DETAIL
SUB-TOTAL				1,800	120	17,000	17,000	3								

Not in San Mateo County LCP

(N) - NOT A SEPARATE BID ITEM

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT  
 KIMBERLY WHITE  
 CALCULATED/DESIGNED BY  
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 CHRIS PADICK  
 ALEX MCDONALD  
 REVISED BY  
 DATE REVISED  
 CP

## EROSION CONTROL QUANTITIES ECQ-1

LAST REVISION    DATE PLOTTED => 10/12/2023    TIME PLOTTED => 3:44:51 PM