

Appendix B. Draft 95% Project Plan Sheets

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

CONSULTANT DESIGN MANAGER

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

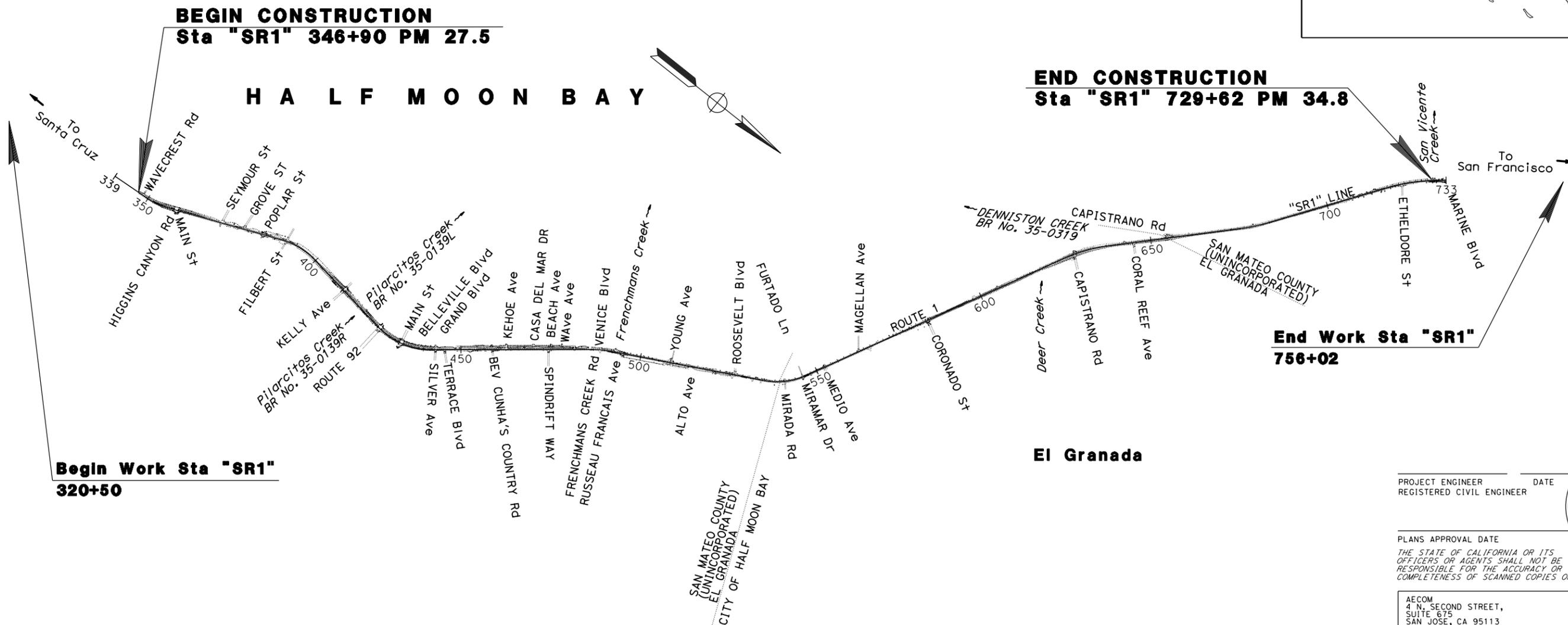
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**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

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

LOCATION MAP



**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.

REGISTERED PROFESSIONAL ENGINEER
No. _____
Exp. _____
CIVIL
STATE OF CALIFORNIA

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 ₂₀₄₆	2,800		
ESAL ₂₀	4,409,000	TI ₂₀	10.50
ESAL ₄₀	9,445,000	TI ₄₀	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

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	-	-

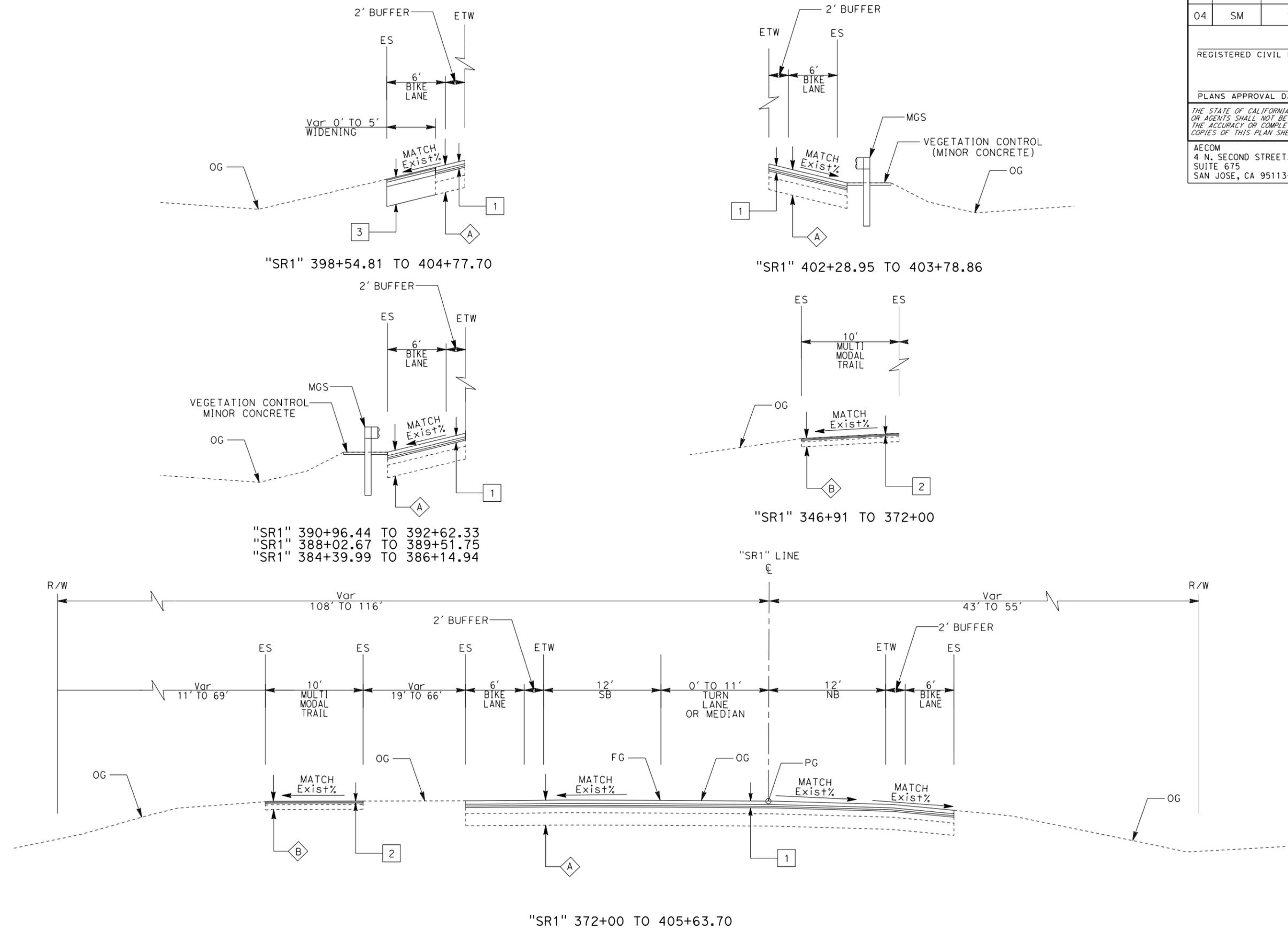
REGISTERED CIVIL ENGINEER DATE _____
 Sang Kim
 No. C66289
 Exp. 06-30-24
 CIVIL
 STATE OF CALIFORNIA

PLANS APPROVAL DATE _____

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ROUTE 1

TYPICAL CROSS SECTIONS
 NO SCALE

X-2

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04	SM	1	27.5/34.8	-	-

REGISTERED CIVIL ENGINEER DATE

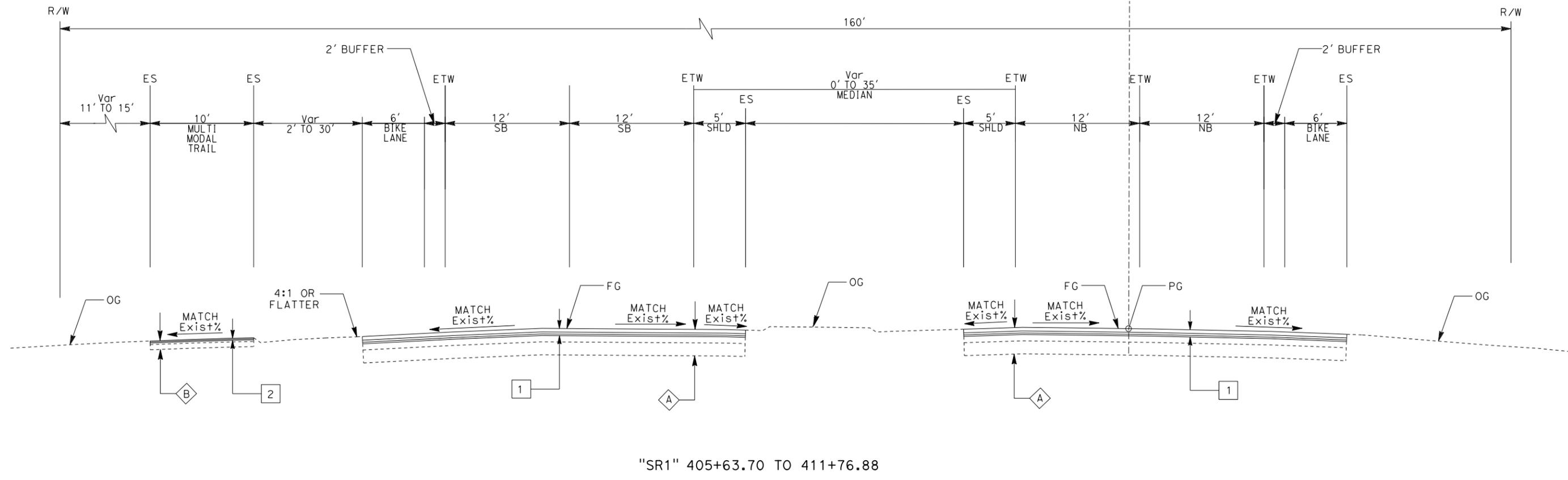
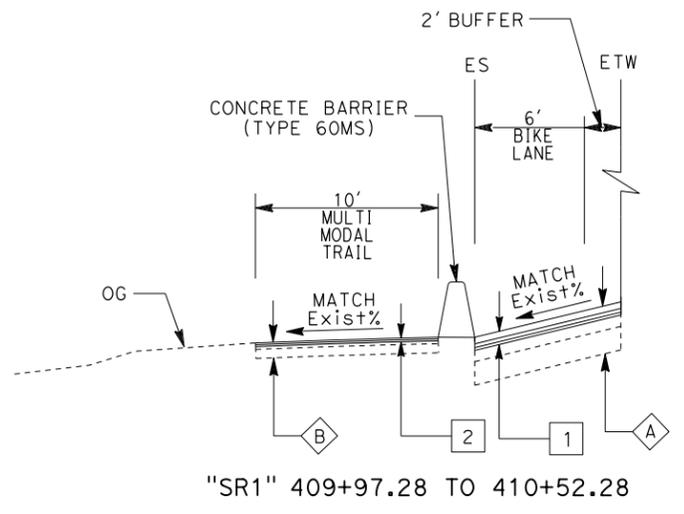
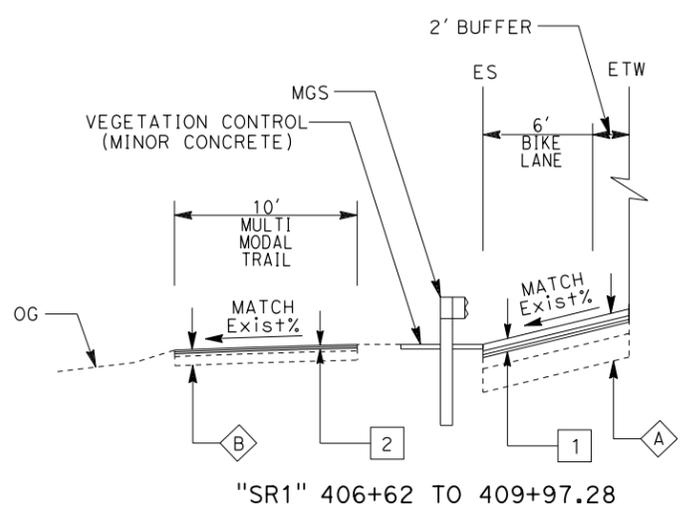


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ROUTE 1

TYPICAL CROSS SECTIONS
NO SCALE

X-3

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

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



UNIT 0720

PROJECT NUMBER & PHASE

04180000531

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

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Caltrans
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 CALCULATED/DESIGNED BY: KEVIN KRAMER
 CHECKED BY: JASON HOM
 REVISED BY: . . .
 DATE REVISED: . . .

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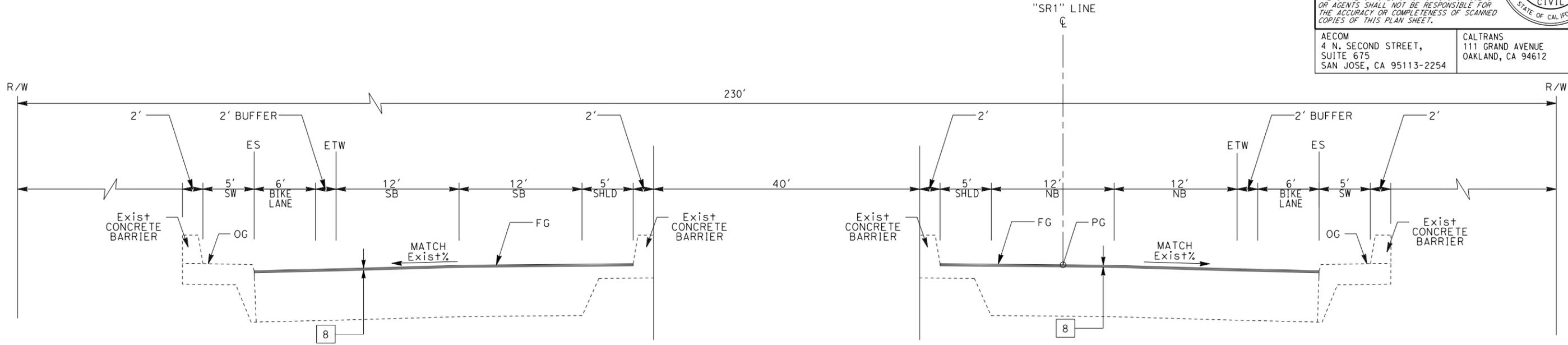
REGISTERED CIVIL ENGINEER DATE _____
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 No. C66289
 Exp. 06-30-24
 CIVIL
 STATE OF CALIFORNIA

PLANS APPROVAL DATE _____

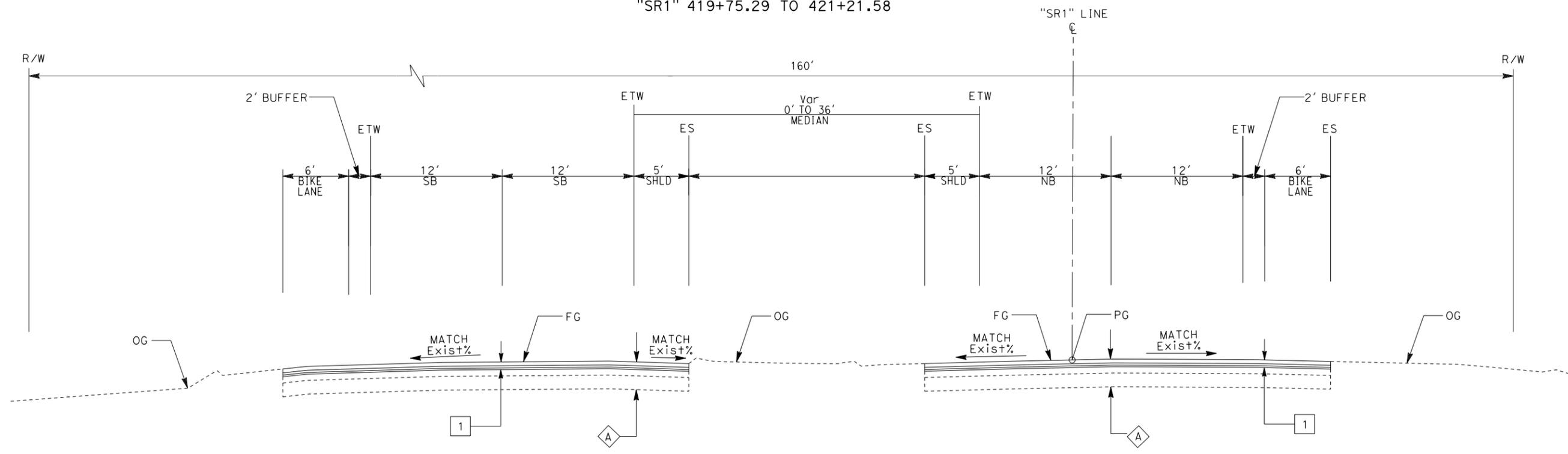
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"SR1" 419+75.29 TO 421+21.58



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

ROUTE 1

TYPICAL CROSS SECTIONS
 NO SCALE

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 CHECKED BY: JASON HOM
 REVISED BY: .
 DATE REVISED: .

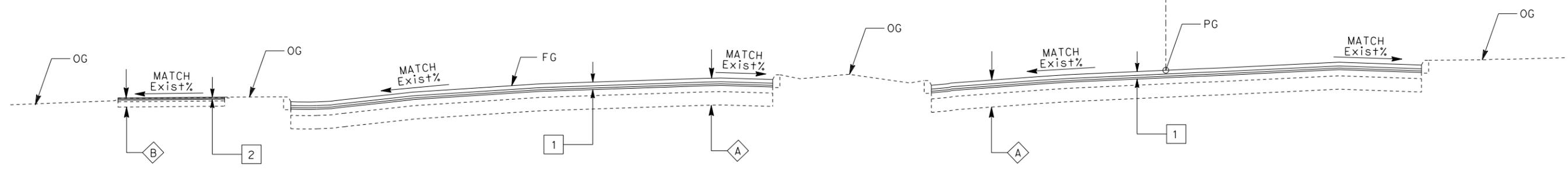
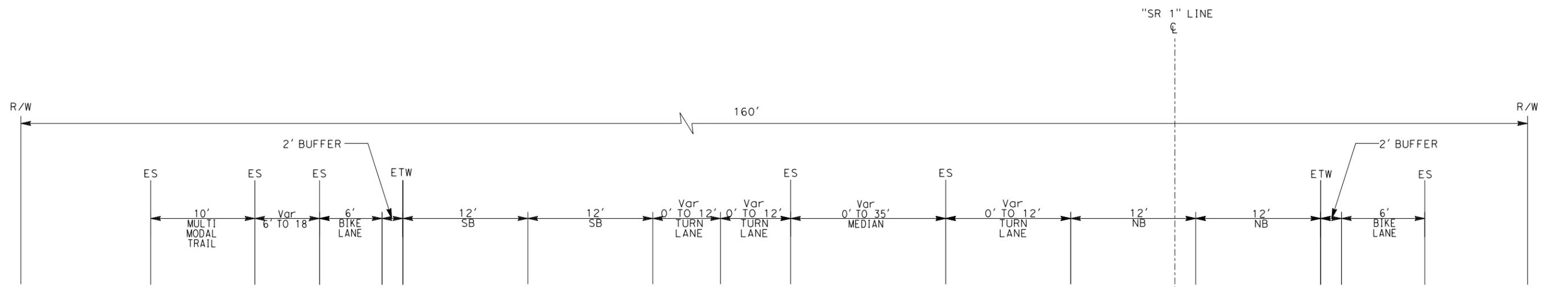
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REGISTERED CIVIL ENGINEER DATE _____
 PLANS APPROVAL DATE _____

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

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"SR1" 426+36.58 TO 432+79.70

ROUTE 1

TYPICAL CROSS SECTIONS
 NO SCALE

X-5

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 CALCULATED/DESIGNED BY: KEVIN KRAMER
 CHECKED BY: JASON HOM
 REVISED BY: . . .
 DATE REVISED: . . .

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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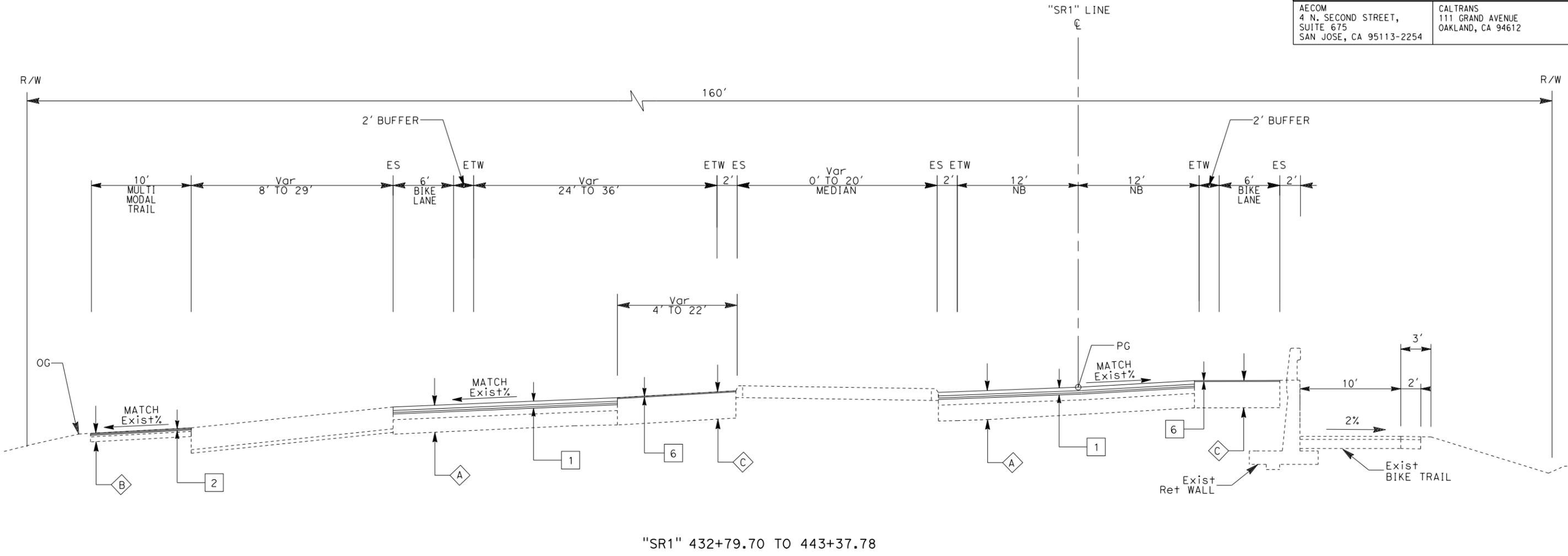
REGISTERED CIVIL ENGINEER DATE _____
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 No. C66289
 Exp. 06-30-24
 CIVIL
 STATE OF CALIFORNIA

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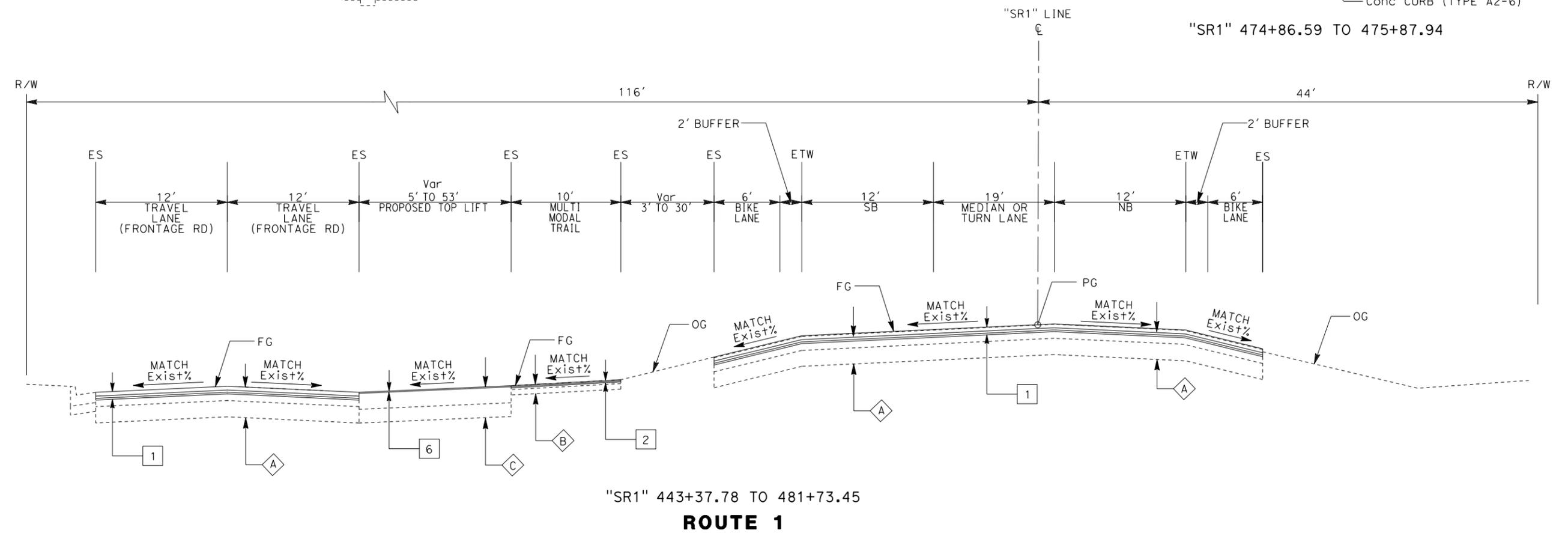
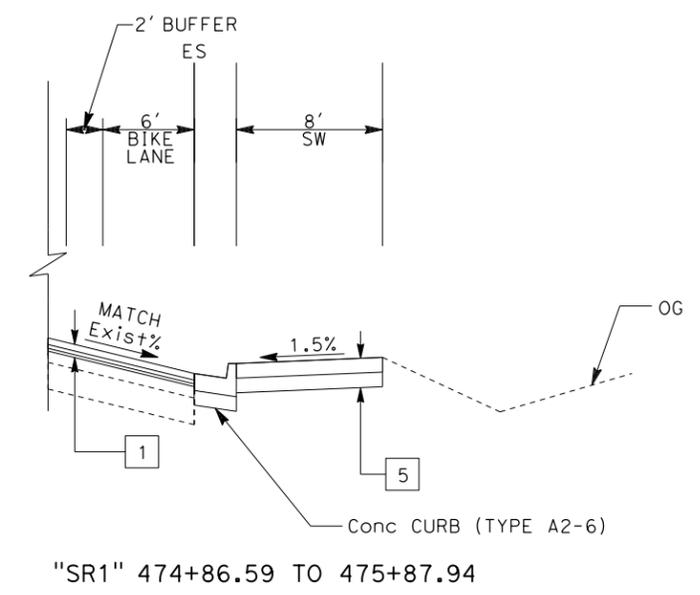
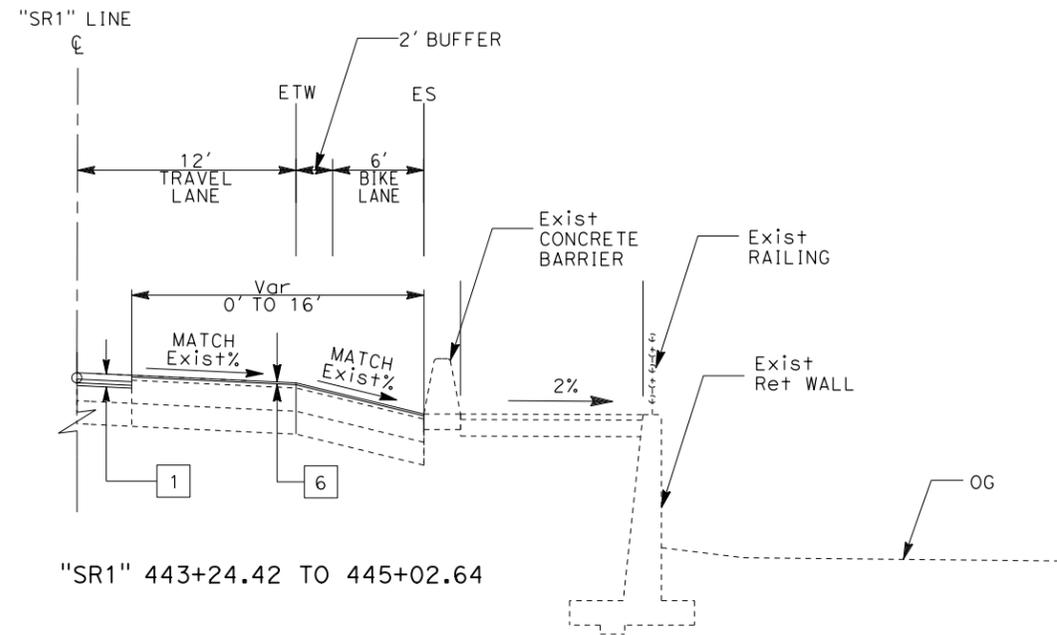


ROUTE 1

TYPICAL CROSS SECTIONS
 NO SCALE

X-6

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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TYPICAL CROSS SECTIONS
NO SCALE

X-7

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

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

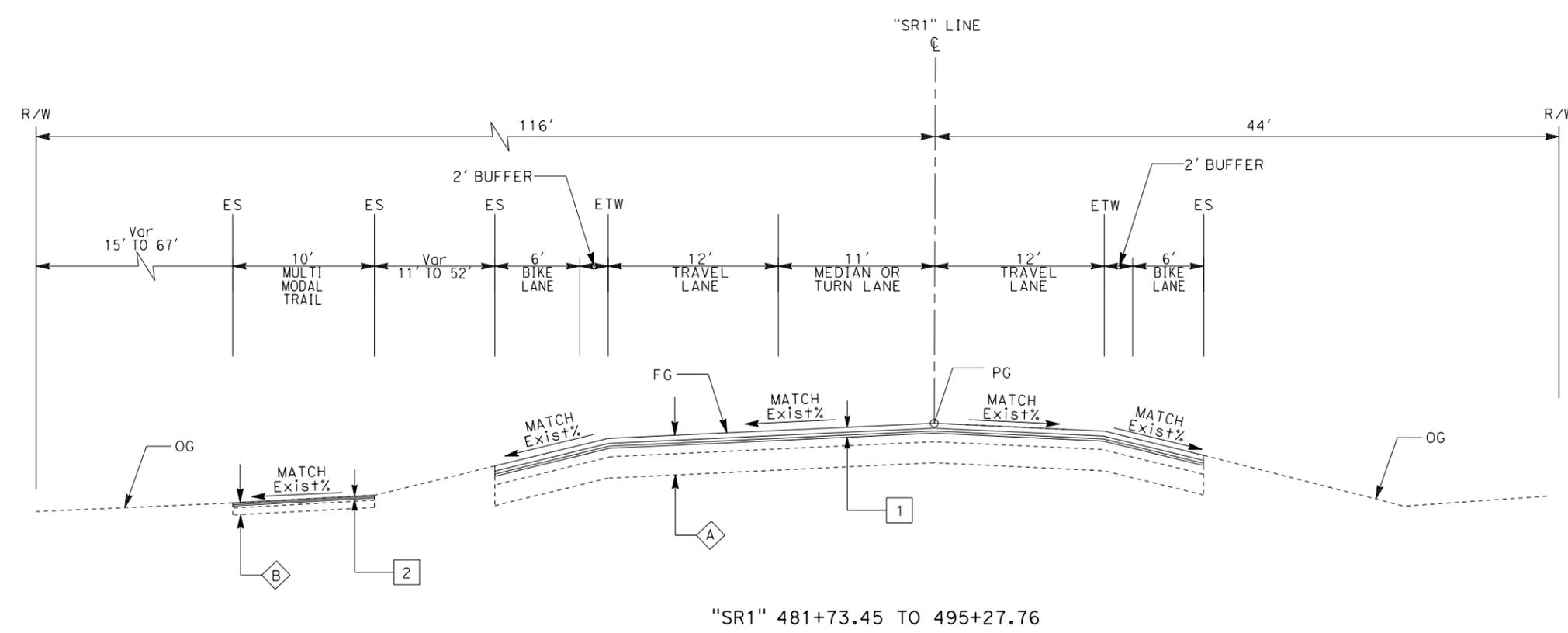
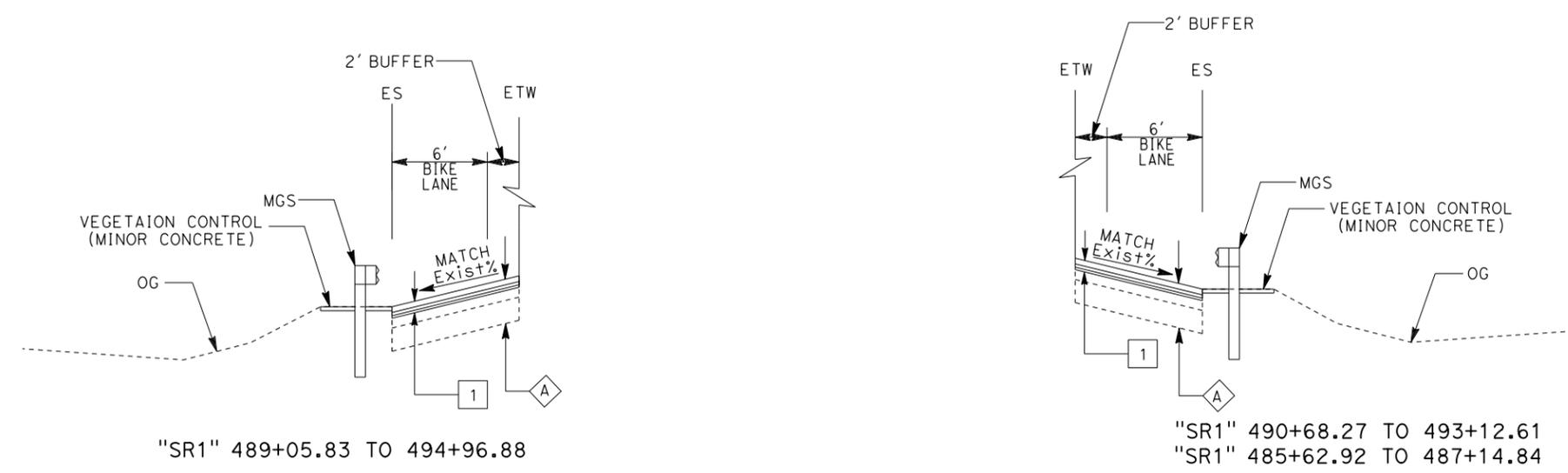
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CALTRANS
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 OAKLAND, CA 94612



ROUTE 1

TYPICAL CROSS SECTIONS
 NO SCALE

X-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Caltrans

REVISOR: KEVIN KRAMER, JASON HOM
 CHECKED BY: SANG KIM

USERNAME => ernie.garnica
 DGN FILE => 0418000053ca008.dgn

RELATIVE BORDER SCALE 15 IN INCHES

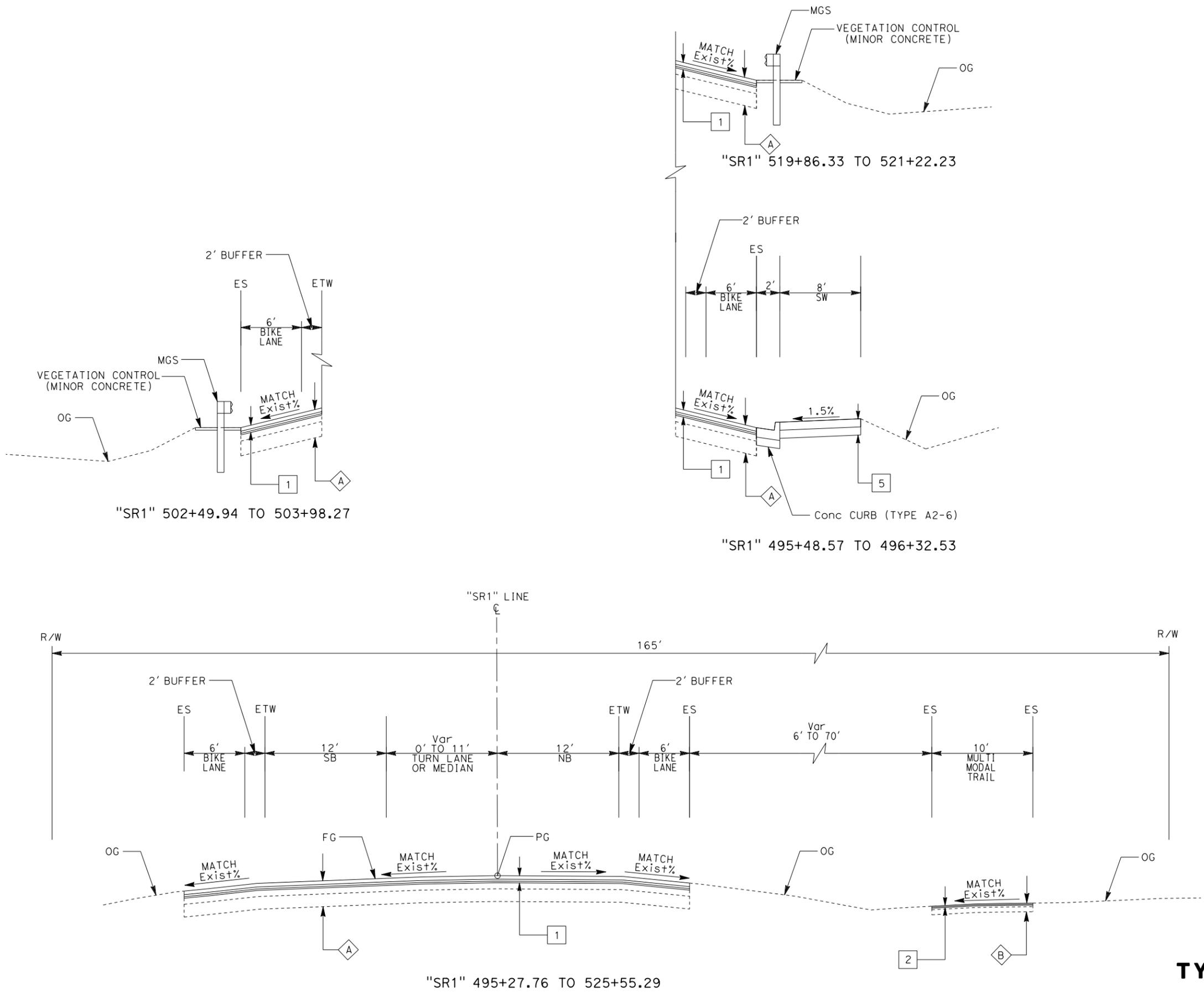
UNIT 0720

PROJECT NUMBER & PHASE 04180000531

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

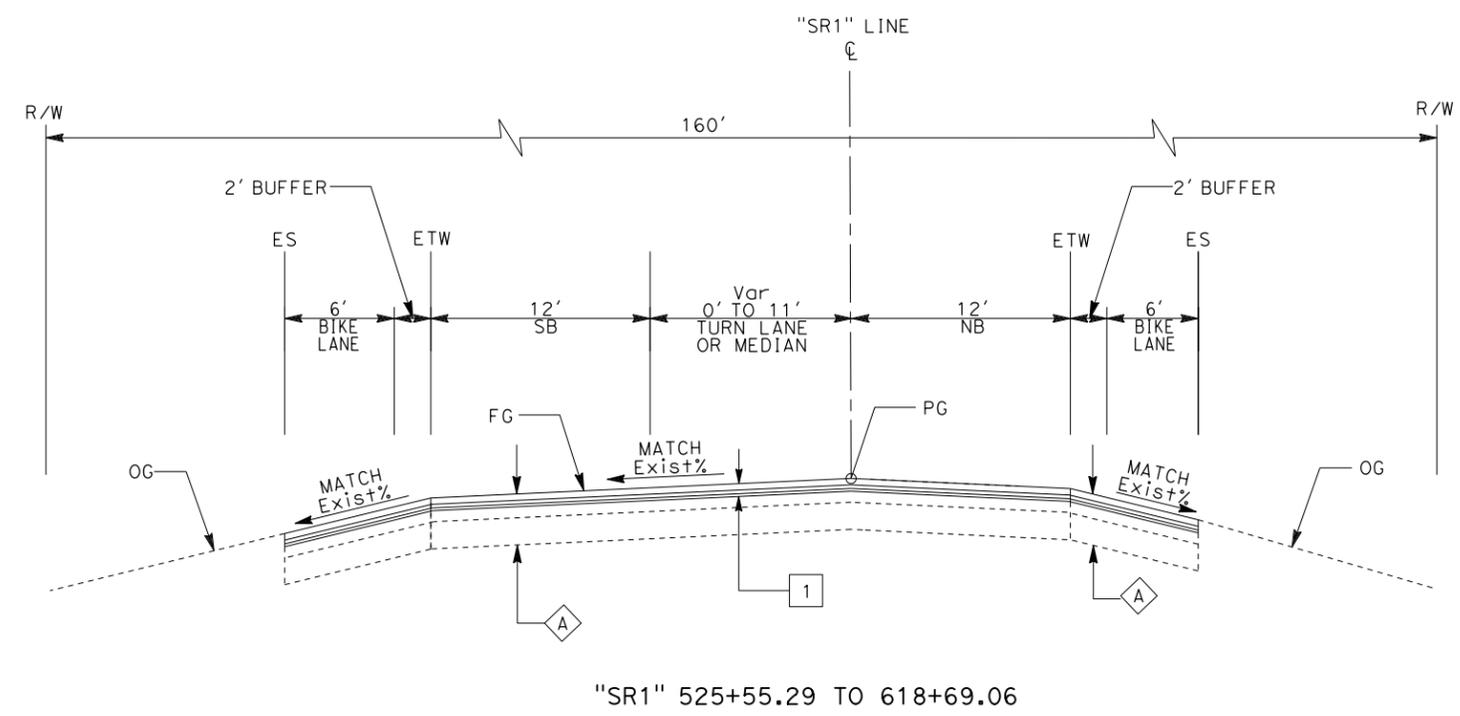
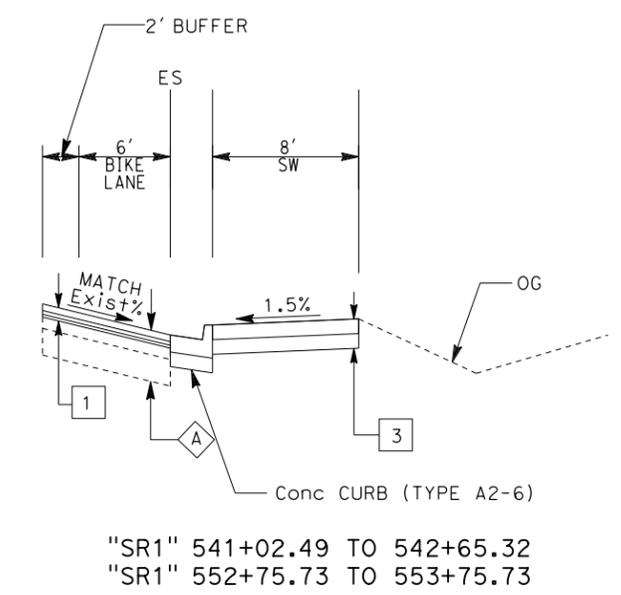
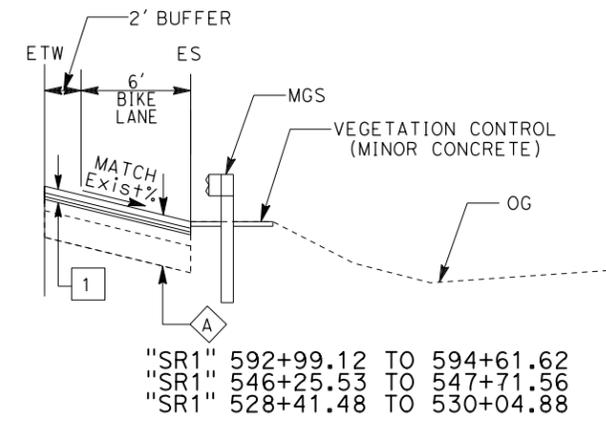
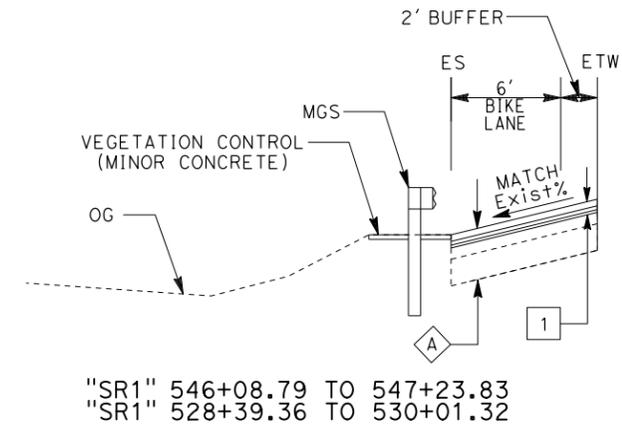
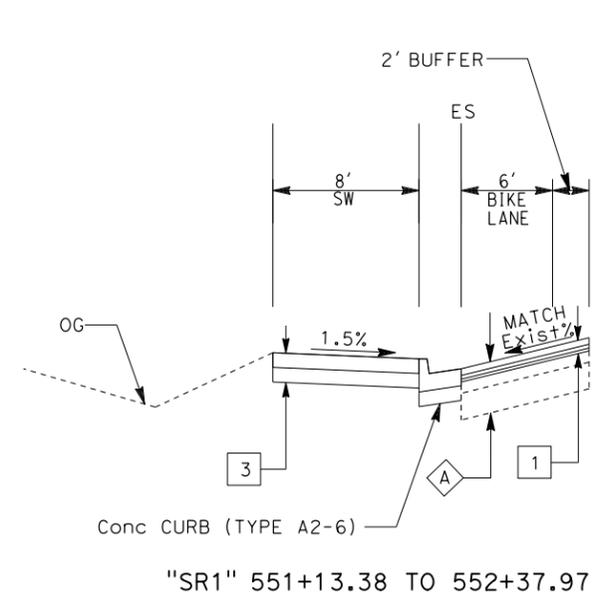
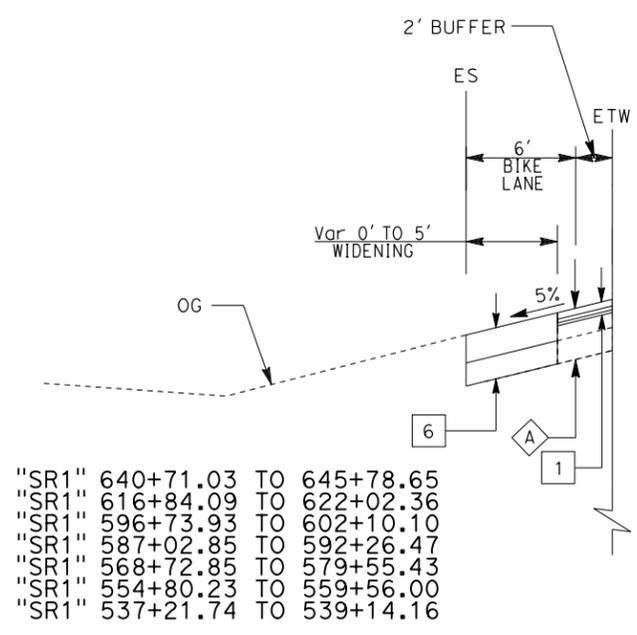


TYPICAL CROSS SECTIONS
NO SCALE

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



TYPICAL CROSS SECTIONS
NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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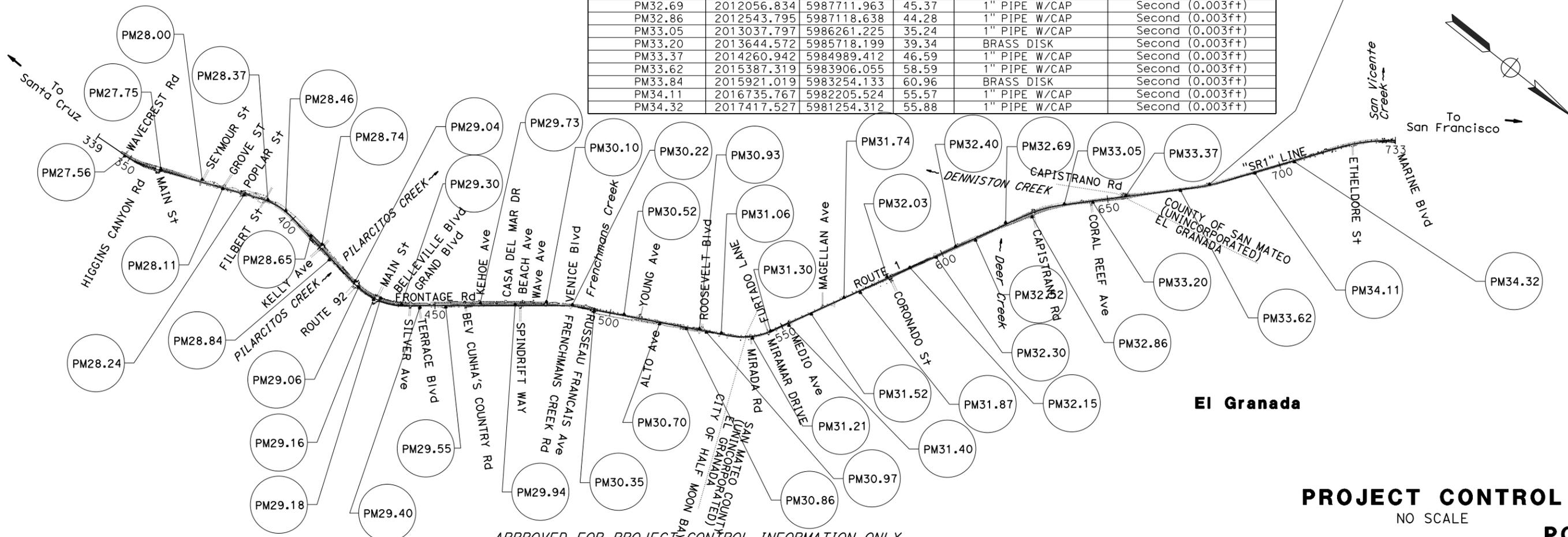
CONSULTANT FUNCTIONAL SUPERVISOR: SANG KIM
 CHECKED BY: JASON HOM
 DESIGNED BY: KEVIN KRAMER
 REVISIONS: KEVIN KRAMER, JASON HOM, SANG KIM

NOTES:

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- FOR COMPLETE PROJECT CONTROL DATA, SEE THE SURVEY ON FILE IN THE SURVEYS DEPARTMENT AT THE DISTRICT OFFICE.
- HORIZONTAL DATUM IS THE NORTH AMERICAN DATUM OF CCS83, CALIFORNIA COORDINATE SYSTEM ZONE 3, EPOCH 2019.55.
- 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

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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: SANG KIM

REVISOR: JASON HOM

DATE: SANG KIM

DESIGNER: SANG KIM

CHECKER: SANG KIM

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 CONSULTANT FUNCTIONAL SUPERVISOR: SANG KIM
 CALCULATED/DESIGNED BY: KEVIN KRAMER
 CHECKED BY: JASON HOM
 REVISIONS: KEVIN KRAMER (DATE), JASON HOM (DATE)
 REVISIONS:

NOTES:

- FOR ACCURATE RIGHT OF WAY, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- USE MGS NARROW INSTALLATION, PER STANDARD PLAN A77N3, DETAIL B FOR SPECIFIC LOCATIONS AS SHOWN.
- USE STRENGTHENED MIDWEST GUARDRAIL SYSTEM SECTION INSTALLATION, PER STANDARD PLAN A77R1, FOR SPECIFIC LOCATIONS AS SHOWN.
- SEE CONSTRUCTION DETAILS FOR CURB RAMP, INTERSECTION, SIDEWALK, PASSAGEWAY, AND BUS CONNECTION.
- FOR MGS (TYPE 11D LAYOUT), USE DETAIL B: NARROW ROADWAY INSTALLATION PER 2023 CALTRANS STANDARD PLAN FOR MGS (TYPE 11A).
- FOR GUARD RAIL DELINEATORS LOCATION, SEE PD PLANS.

ABBREVIATIONS:

- MT MULTI-MODAL TRAIL
 TC TOP OF CURB
 DWS DETECTABLE WARNING SURFACE

LEGEND:

- COLD PLANE ASPHALT CONCRETE PAVEMENT (ROADWAY)
- COLD PLANE ASPHALT CONCRETE PAVEMENT (MULTI-MODAL TRAIL)
- COLD PLANE ASPHALT CONCRETE PAVEMENT (TOP LIFT)
- COLD PLANE ASPHALT CONCRETE PAVEMENT AND PLACE POLYESTER CONCRETE OVERLAY
- CONCRETE BARRIER MARKER
- FULL DEPTH PAVEMENT SECTION
- HOT MIX ASPHALT (TYPE A) BUS CONNECTION
- OBJECT MARKER (TYPE K-1)
- SIDEWALK/CURB RAMP/MEDIAN ISLAND
- STRUCTURAL SECTION (SEE TYPICAL CROSS SECTIONS)
- VEGETATION CONTROL (MINOR CONCRETE)

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

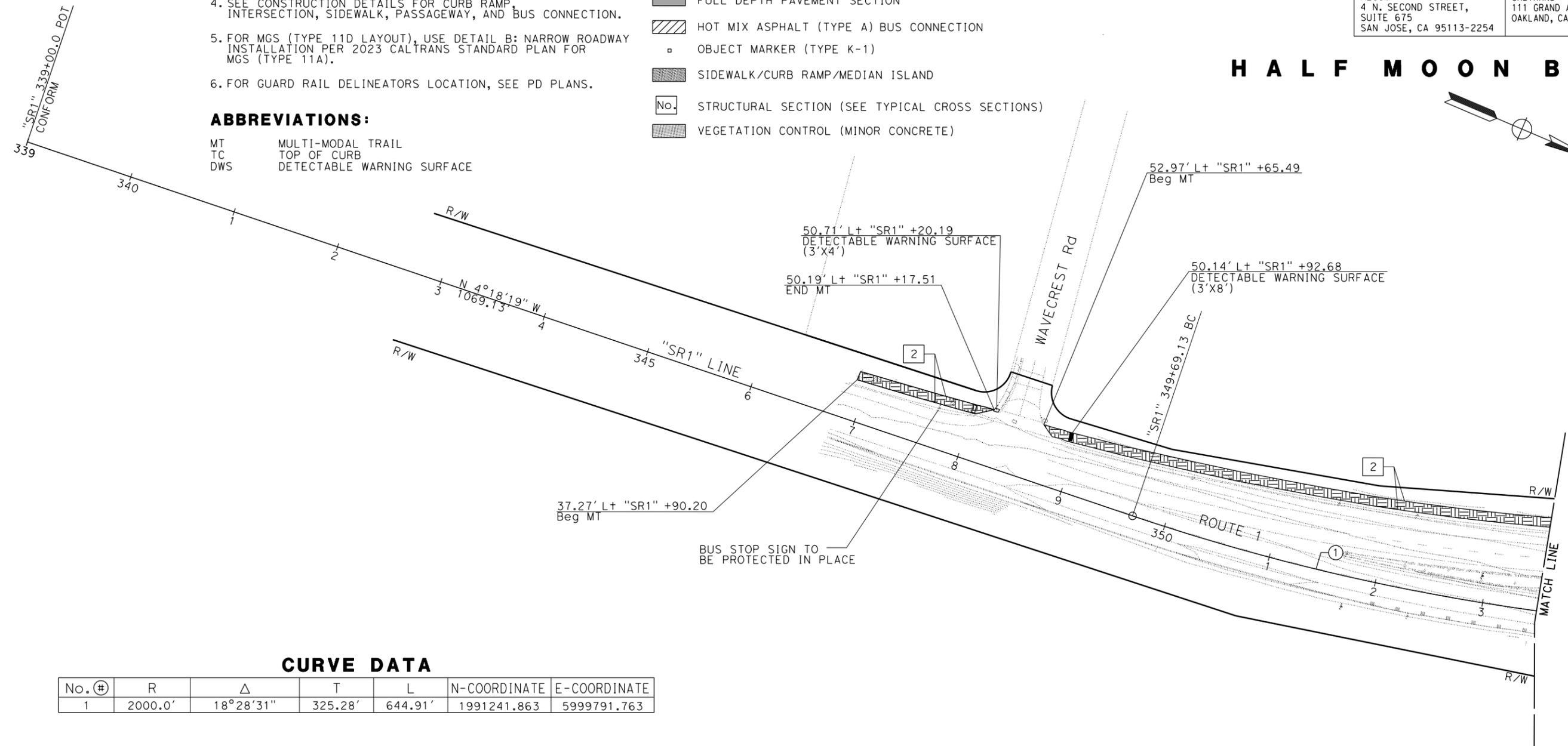
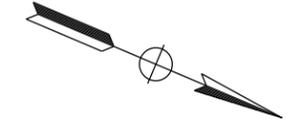
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CALTRANS
111 GRAND AVENUE
OAKLAND, CA 94612

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

HALF MOON BAY



CURVE DATA

No. +	R	Δ	T	L	N-COORDINATE	E-COORDINATE
1	2000.0'	18°28'31"	325.28'	644.91'	1991241.863	5999791.763

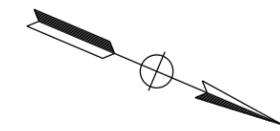
LAYOUT
 SCALE: 1" = 50'
L-1

LAST REVISION DATE PLOTTED => 14-DEC-2023 10-27-23 TIME PLOTTED => 09:15

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.

HALF MOON BAY



CURVE DATA

No. #	R	Δ	T	L	N-COORDINATE	E-COORDINATE
1	2000.0'	18°28'31"	325.28'	644.91'	1991241.863	5999791.763

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

REGISTERED CIVIL ENGINEER DATE

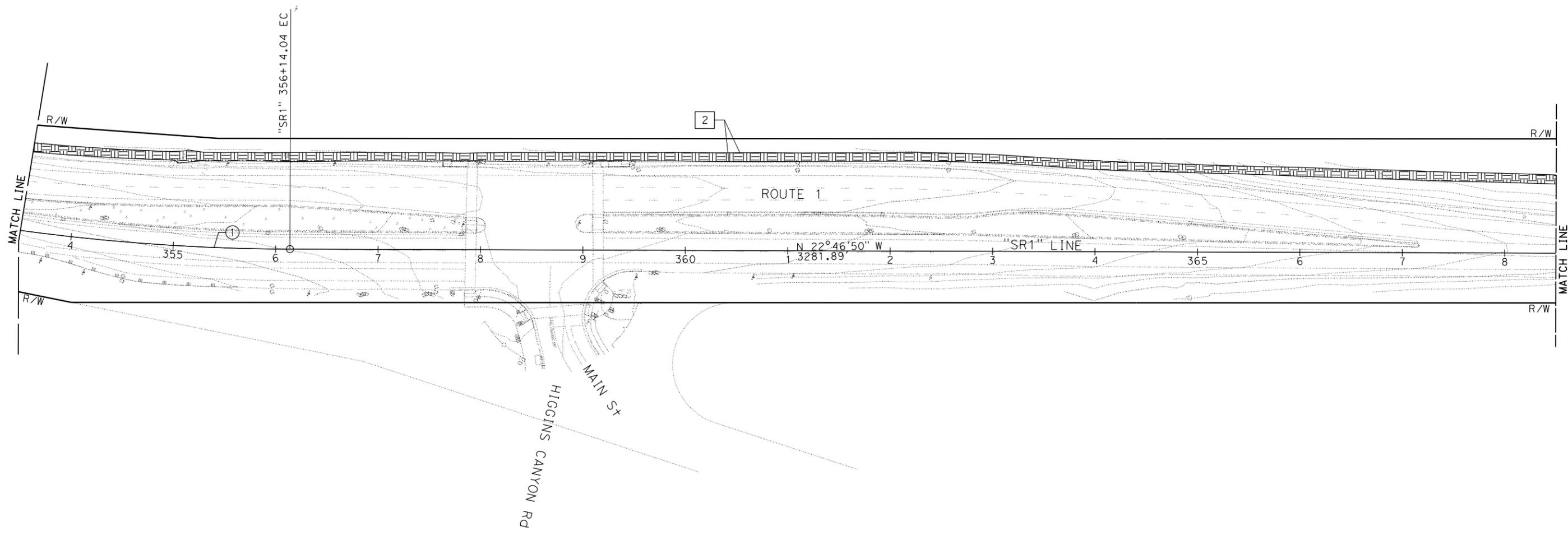
PLANS APPROVAL DATE

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

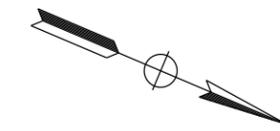


FOR NOTES, ABBREVIATIONS
 AND LEGEND, SEE SHEET L-1

LAYOUT
 SCALE: 1" = 50'
L-2

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

HALF MOON BAY



NOTE:

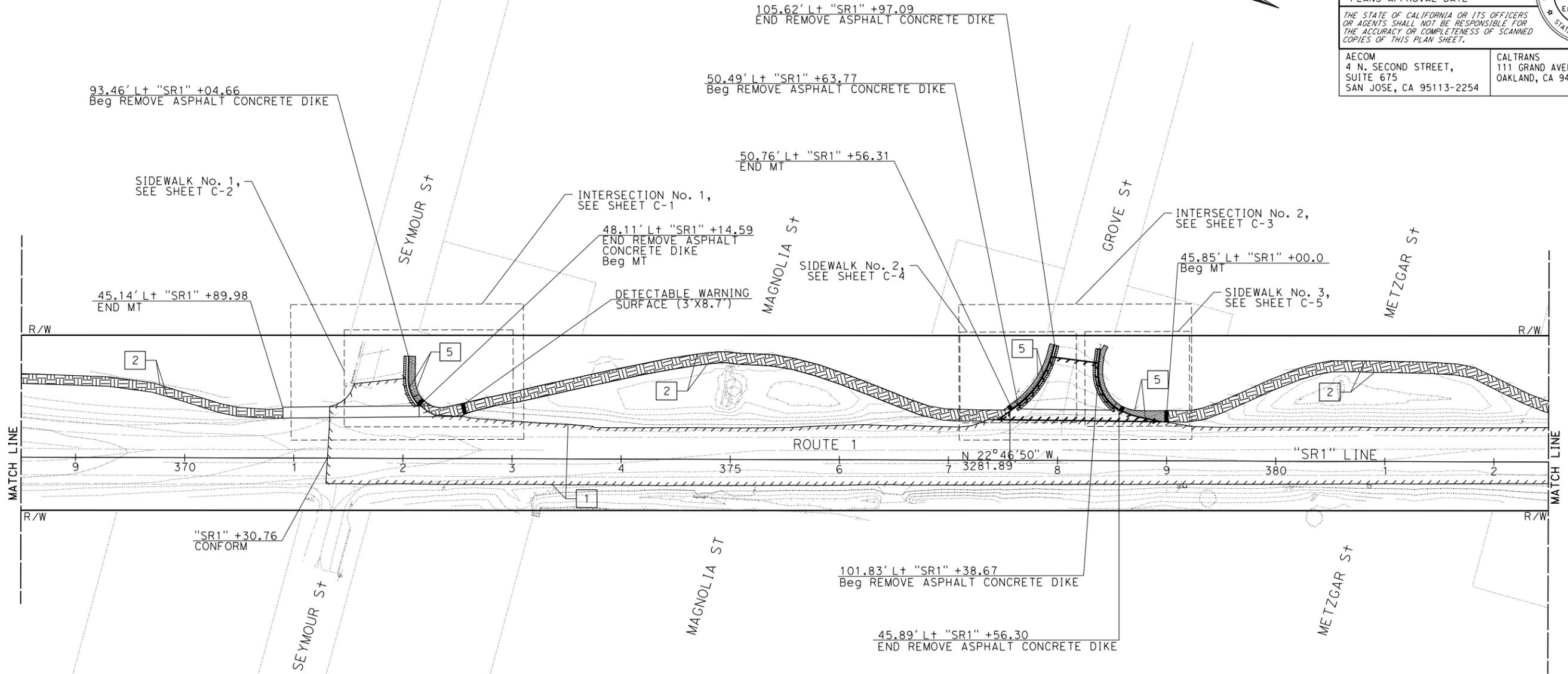
FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

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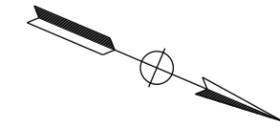
REVISOR	DATE	REVISION	DATE	REVISION
KEVIN KRAMER	JASON HOM			
CALCULATED-DESIGNED BY	CHECKED BY	CONSULTANT FUNCTIONAL SUPERVISOR		
		SANG KIM		
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION				

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

LAYOUT
SCALE: 1" = 50'
L-3

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

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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
2	2000.0'	30°56'37"	553.59'	1080.14'	1995816.558	6002208.991

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

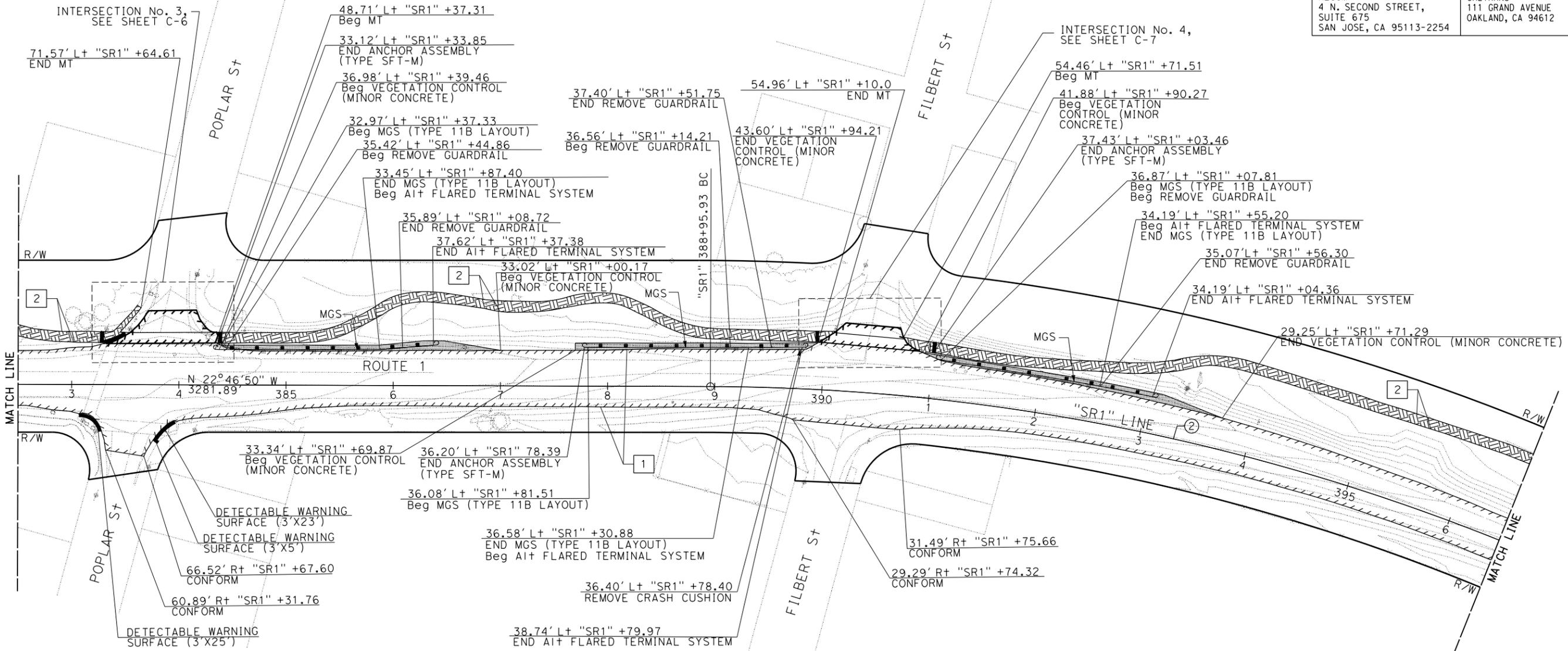
REGISTERED CIVIL ENGINEER DATE

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

PLANS APPROVAL DATE

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--	---



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

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

LAYOUT
SCALE: 1" = 50'

L-4

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

HALF MOON BAY



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	-	-

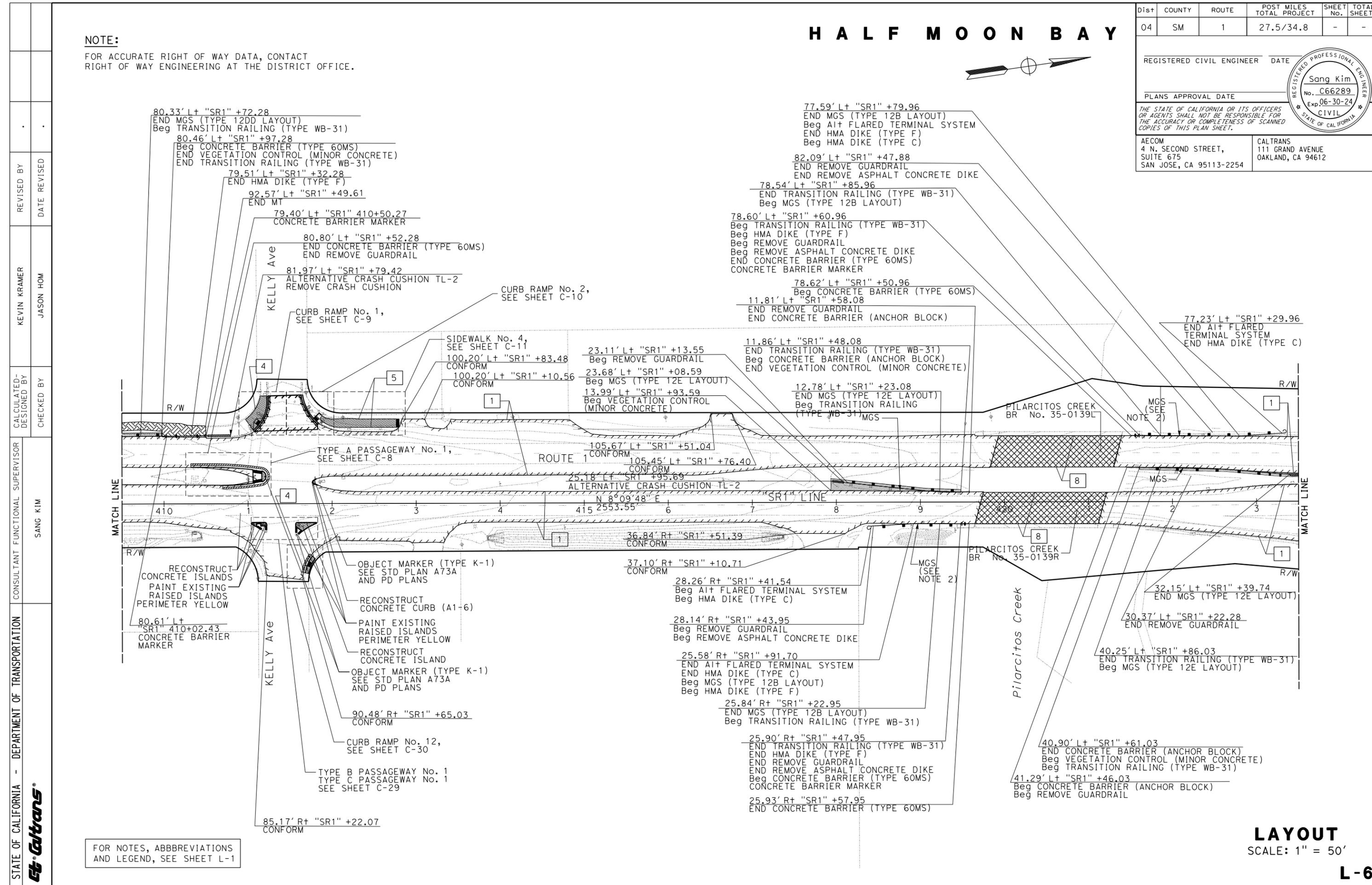
REGISTERED CIVIL ENGINEER DATE

Sang Kim
No. C66289
Exp. 06-30-24
CIVIL
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AND LEGEND, SEE SHEET L-1

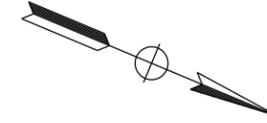
LAYOUT
SCALE: 1" = 50'

LAST REVISION DATE PLOTTED => 14-DEC-2023
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HALF MOON BAY



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

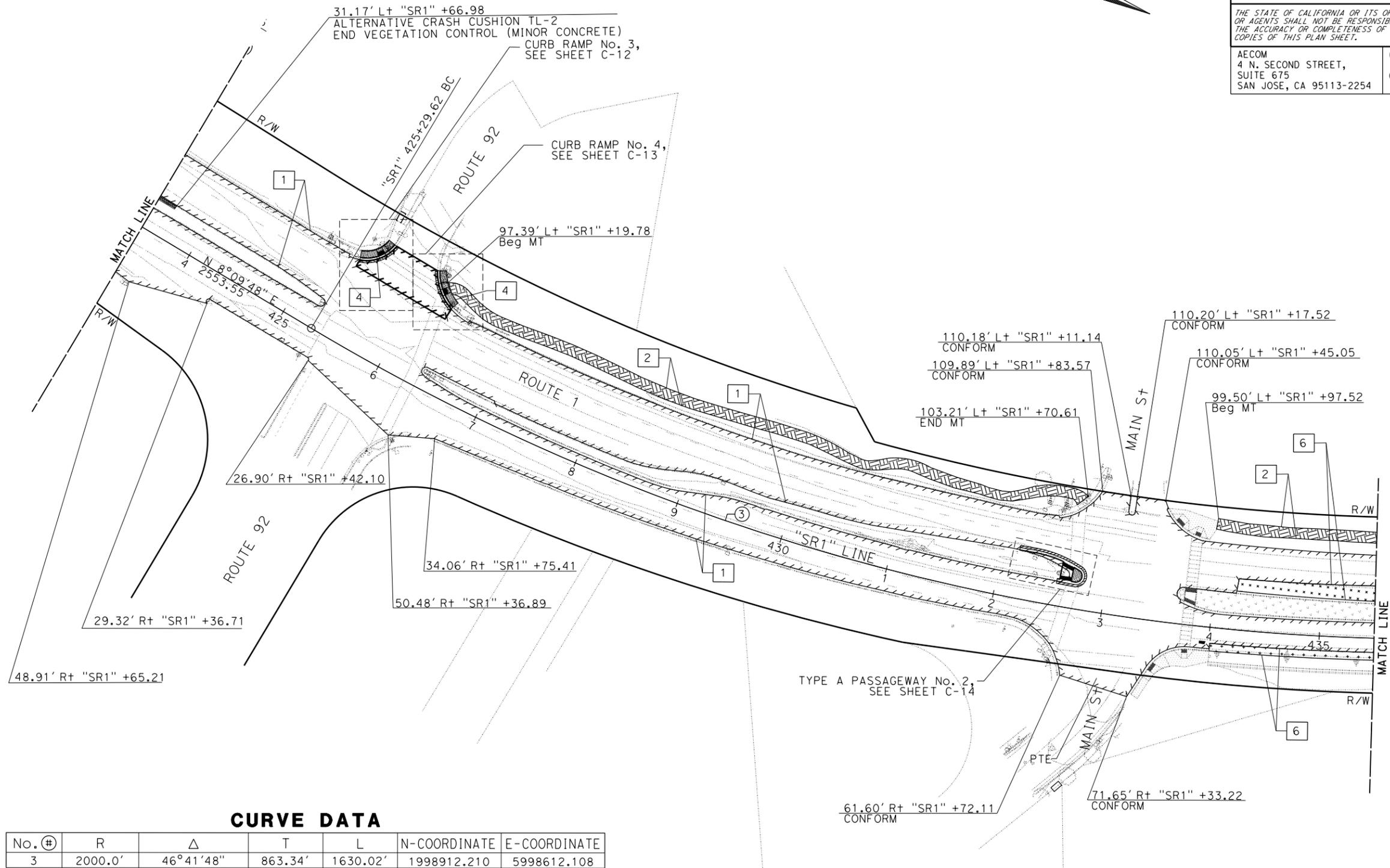
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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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
3	2000.0'	46°41'48"	863.34'	1630.02'	1998912.210	5998612.108

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

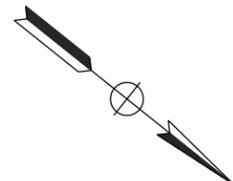
LAYOUT
SCALE: 1" = 50'

L-7

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



HALF MOON BAY



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

REGISTERED CIVIL ENGINEER DATE

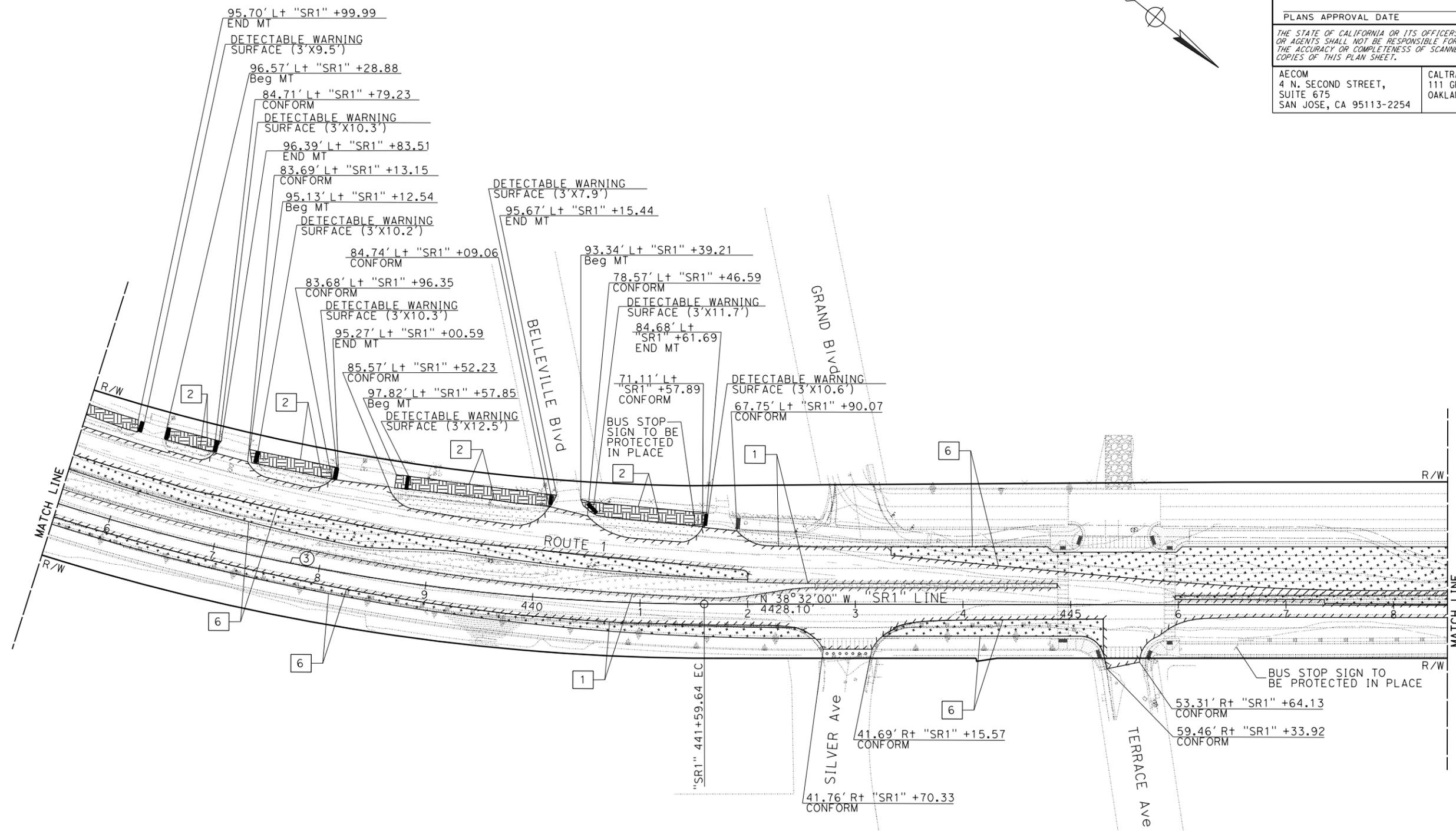
Sang Kim
No. C66289
Exp. 06-30-24
CIVIL
STATE OF CALIFORNIA

PLANS APPROVAL DATE

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--	---

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
3	2000.0'	46°41'48"	863.34'	1630.02'	1998912.210	5998612.108

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

LAYOUT
SCALE: 1" = 50'

L-8

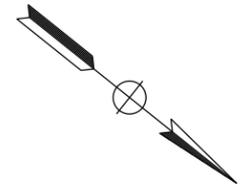
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR SANG KIM	CALCULATED-DESIGNED BY CHECKED BY	REVISOR BY KEVIN KRAMER	DATE REVISOR JASON HOM
--	--------------------------------------	----------------------------	---------------------------

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

HALF MOON BAY

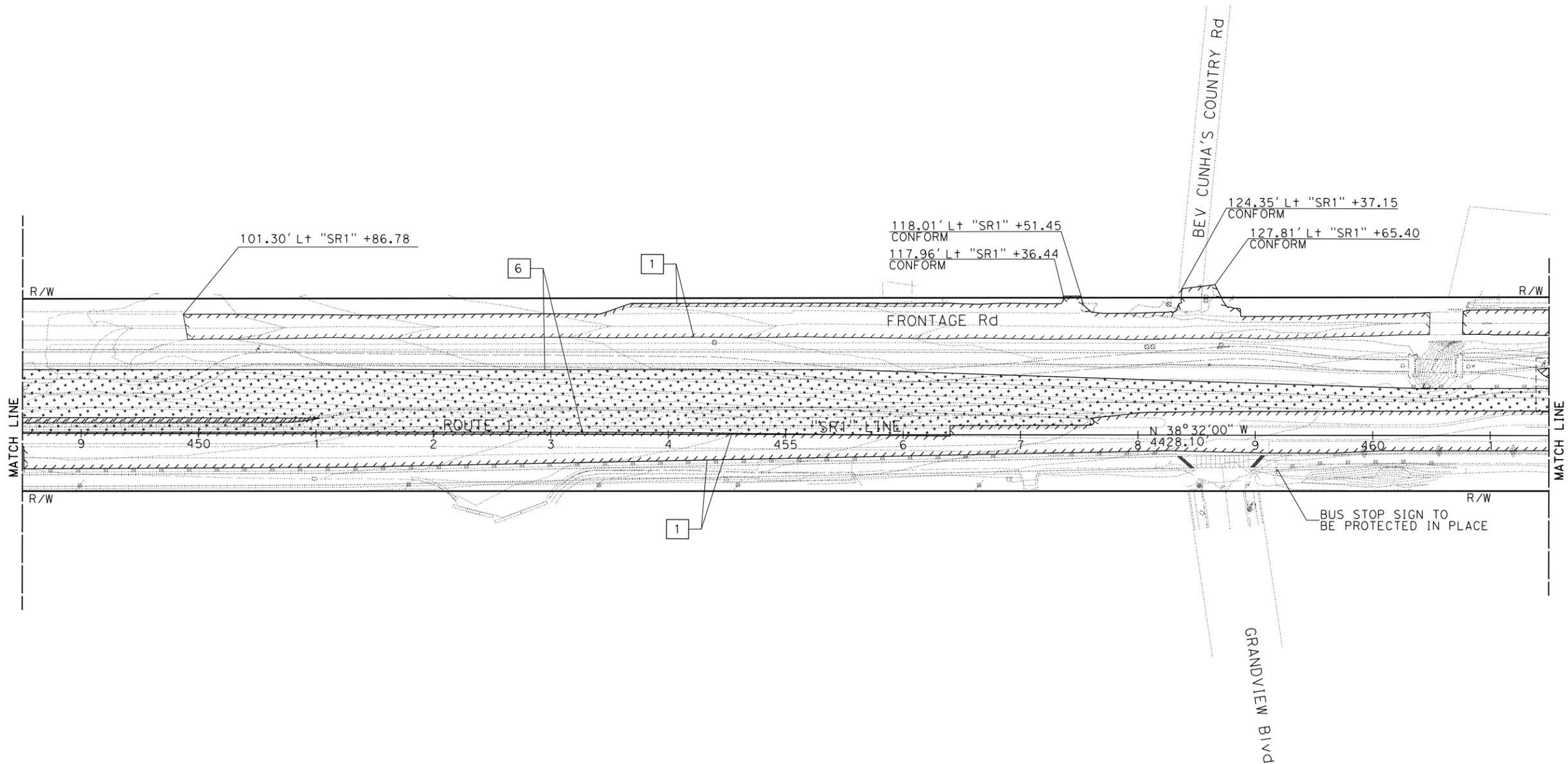


NOTE:
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RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

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



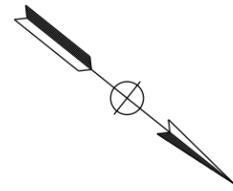
FOR NOTES, ABBREVIATIONS
AND LEGEND, SEE SHEET L-1

LAYOUT
SCALE: 1" = 50'
L-9

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

NOTE:
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RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

H A L F M O O N B A Y



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

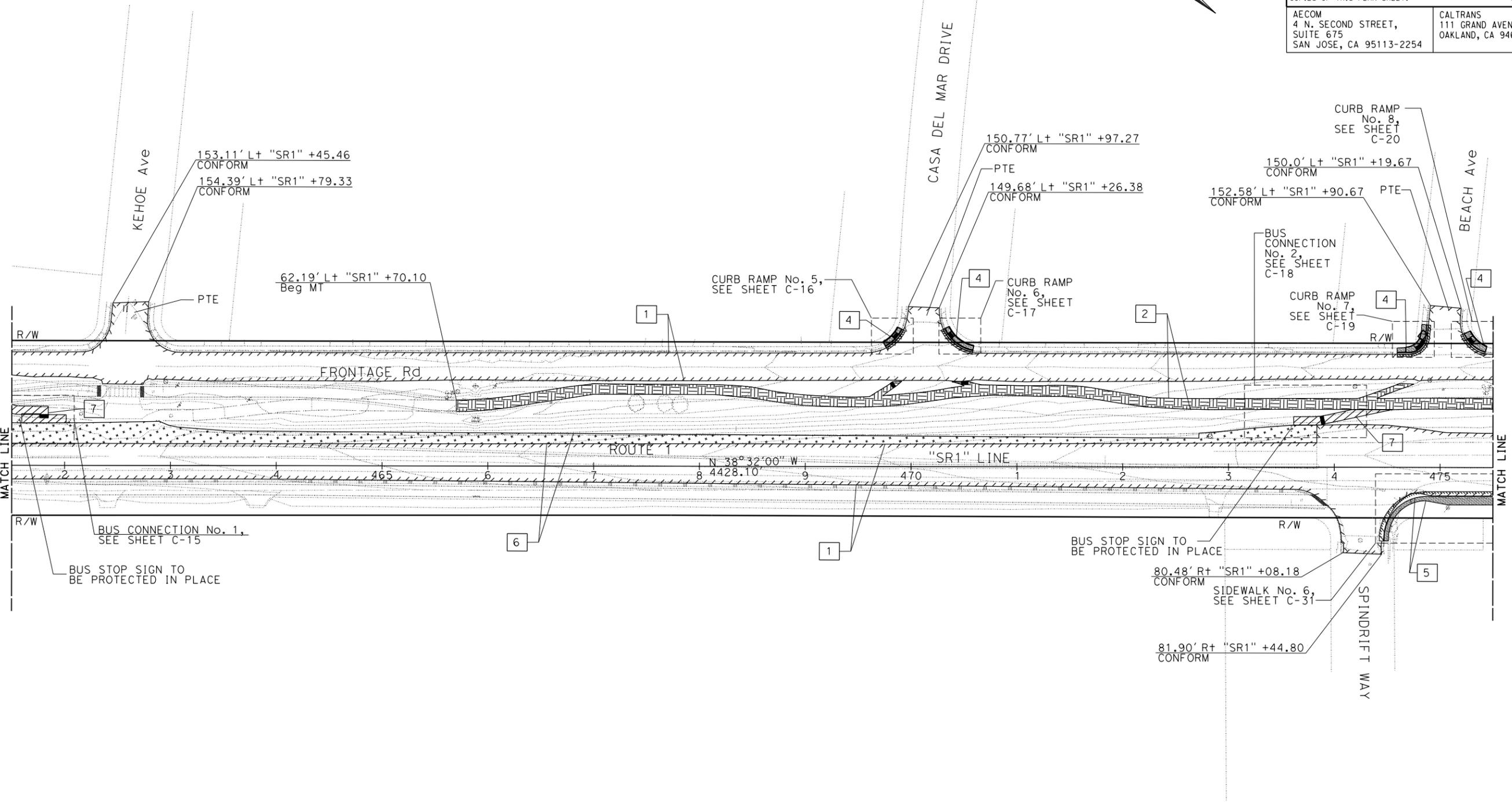
REGISTERED CIVIL ENGINEER DATE _____

PLANS APPROVAL DATE _____

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

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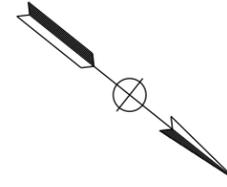
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISED BY	DATE
Caltrans	SANG KIM	KEVIN KRAMER JASON HOM	KEVIN KRAMER JASON HOM	DATE

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

LAYOUT
SCALE: 1" = 50'
L-10

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

HALF MOON BAY



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
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STATE OF CALIFORNIA

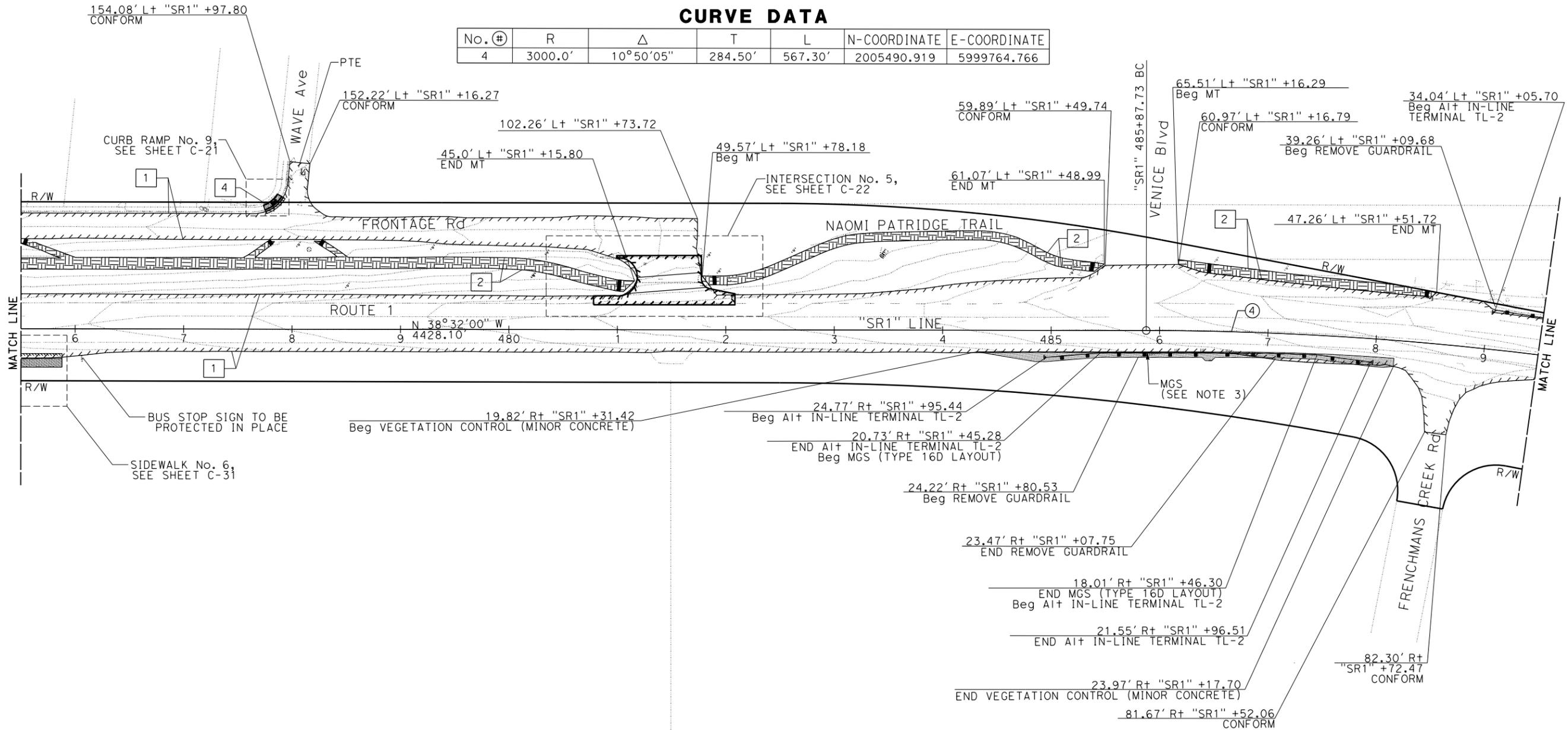
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--	---

CURVE DATA

No. (#)	R	Δ	T	L	N-COORDINATE	E-COORDINATE
4	3000.0'	10°50'05"	284.50'	567.30'	2005490.919	5999764.766



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:

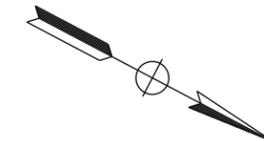
FOR NOTES, ABBREVIATIONS
AND LEGEND, SEE SHEET L-1

LAYOUT
SCALE: 1" = 50'
L-11

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.

HALF MOON BAY



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

REGISTERED CIVIL ENGINEER DATE

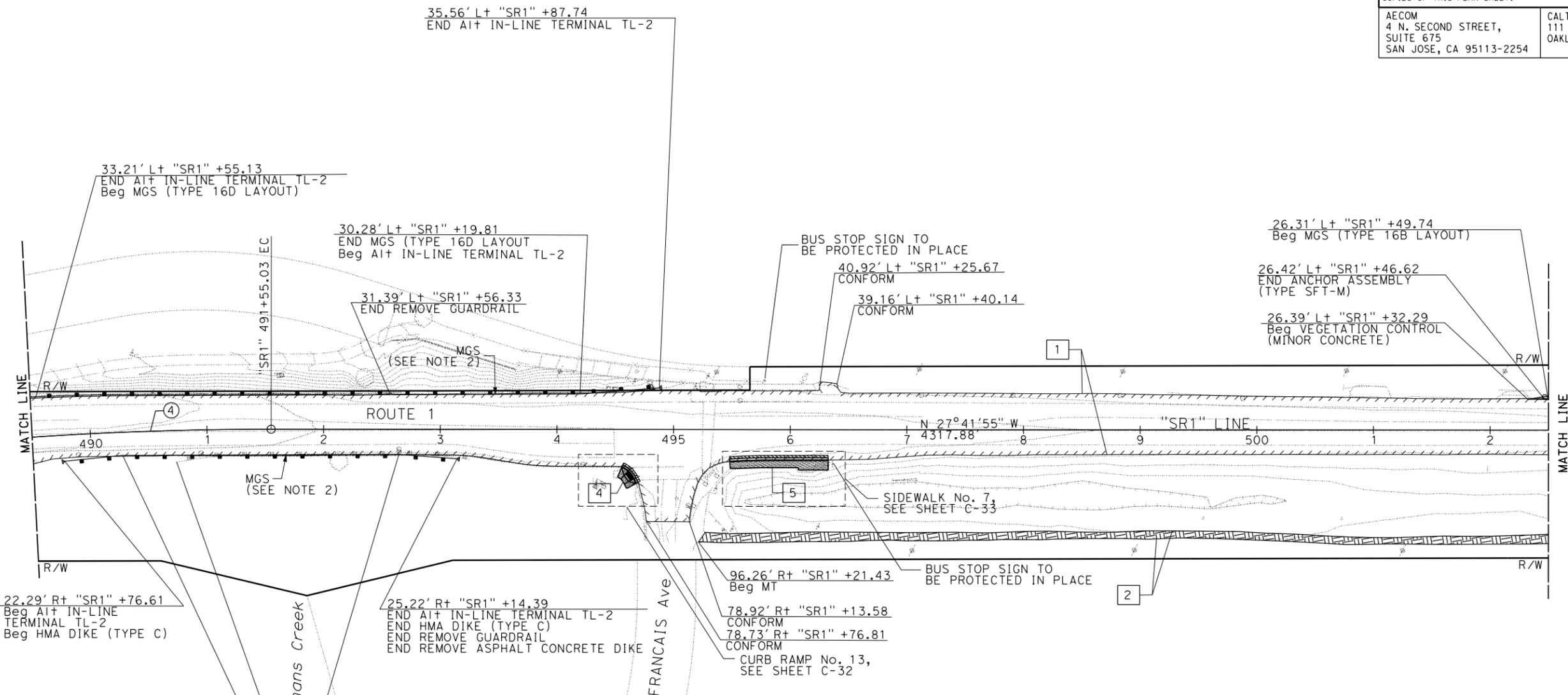
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4 N. SECOND STREET,
SUITE 675
SAN JOSE, CA 95113-2254

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
4	3000.0'	10°50'05"	284.50'	567.30'	2005490.919	5999764.766

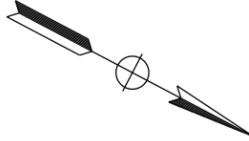
FOR NOTES, ABBREVIATIONS
AND LEGEND, SEE SHEET L-1

LAYOUT
SCALE: 1" = 50'
L-12

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

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

HALF MOON BAY



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

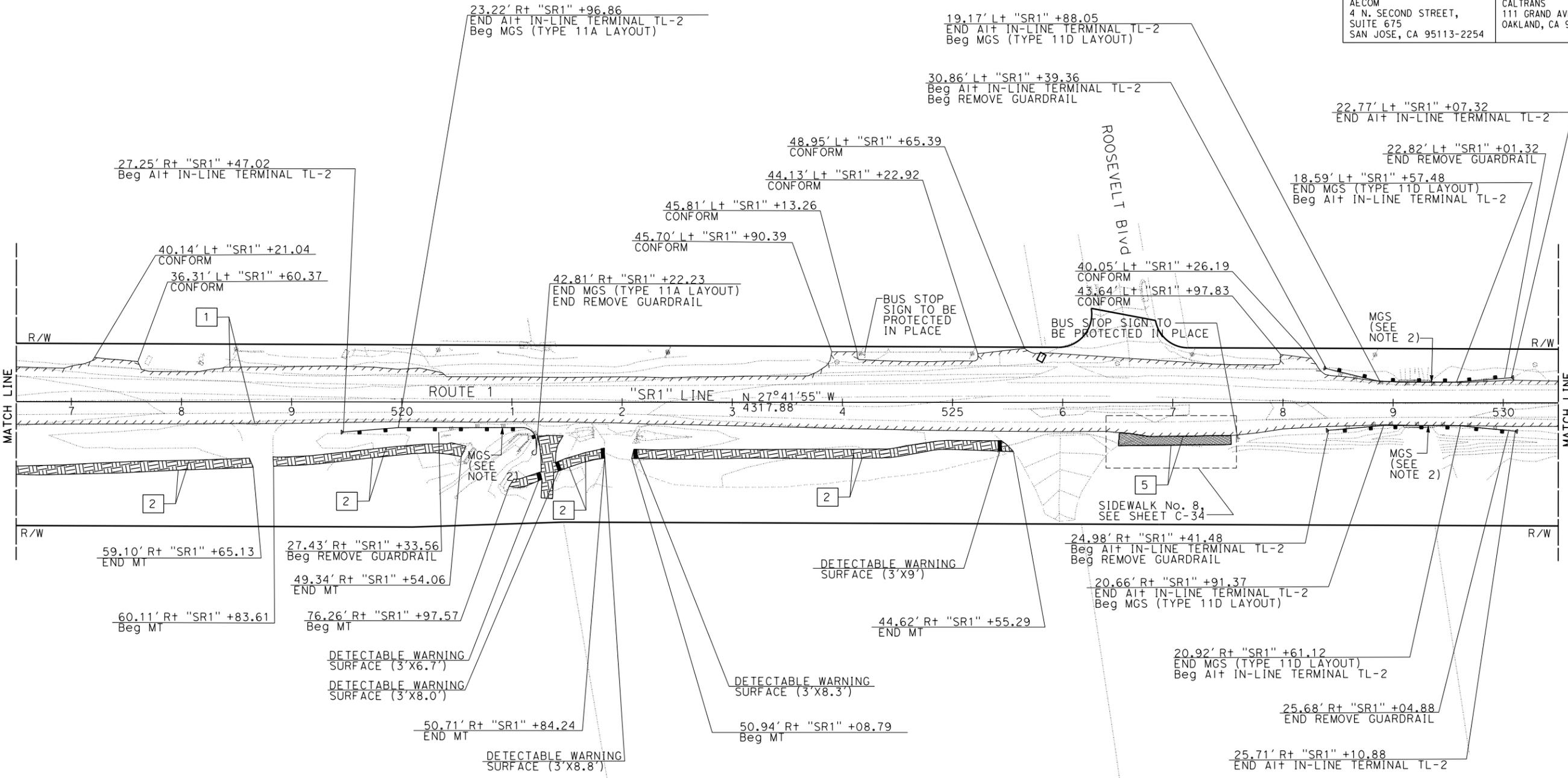
REGISTERED CIVIL ENGINEER	DATE
Sang Kim No. C66289 Exp. 06-30-24 CIVIL	
PLANS APPROVAL DATE	

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
--	---

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

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



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

LAYOUT
SCALE: 1" = 50'
L-14

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

NOTE:

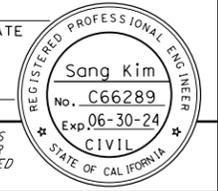
FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

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

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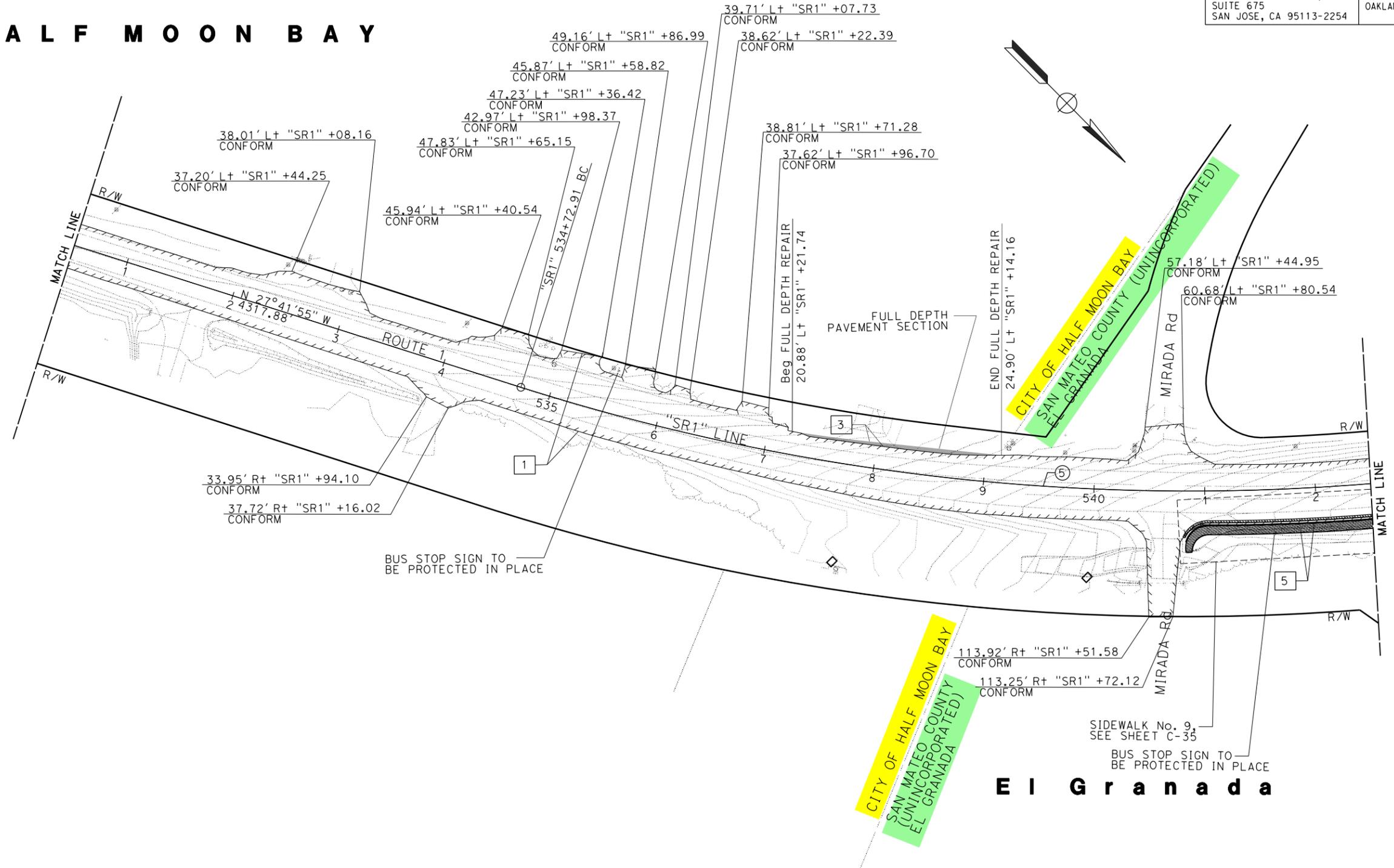
AECOM
4 N. SECOND STREET,
SUITE 675
SAN JOSE, CA 95113-2254

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
Caltrans	SANG KIM	CHECKED BY	KEVIN KRAMER
			JASON HOM
			DATE REVISED

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

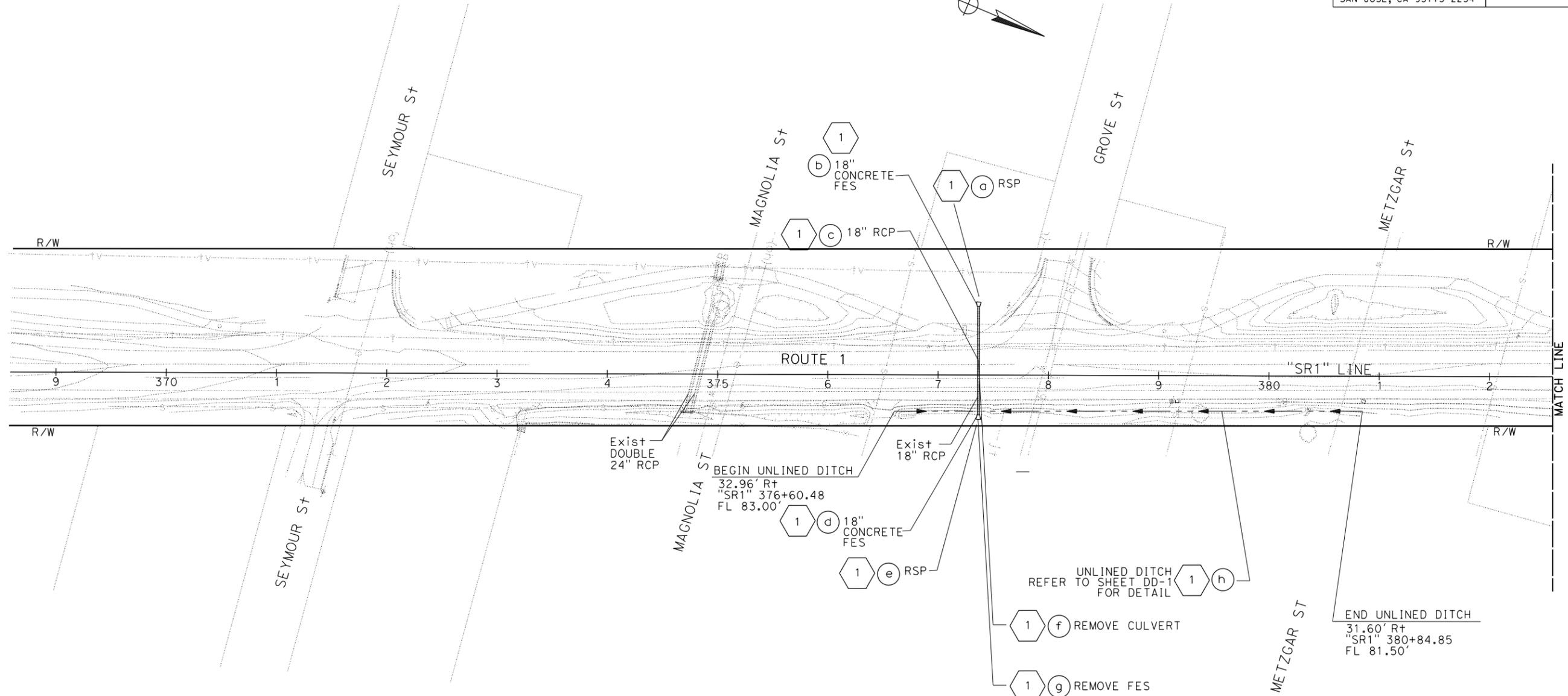
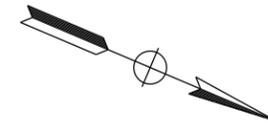
LAYOUT
SCALE: 1" = 50'
L-15

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

NOTES:

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- STATION AND OFFSET REFERENCE LOCATIONS FOR DRAINAGE STRUCTURES ARE SHOWN ON DRAINAGE PROFILES.
- FOR DITCH DETAILS, SEE DRAINAGE DETAILS.

H A L F M O O N B A Y



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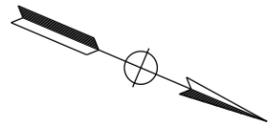
Sang Kim
No. C66289
Exp. 06-30-24
CIVIL
STATE OF CALIFORNIA

DRAINAGE PLAN
SCALE: 1" = 50'

APPROVED FOR DRAINAGE WORK ONLY

D-1

HALF MOON BAY



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

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
Caltrans	SANG KIM	CHECKED BY	KEVIN KRAMER	
			NELSON HOM	

FOR NOTES AND LEGEND,
SEE SHEET D-1

DRAINAGE PLAN

SCALE: 1" = 50'

APPROVED FOR DRAINAGE WORK ONLY

D-2

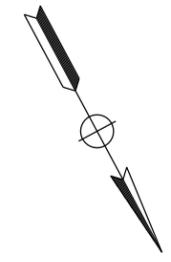
LAST REVISION | DATE PLOTTED => 30-OCT-2023 | 10-27-23 | TIME PLOTTED => 13:11

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	

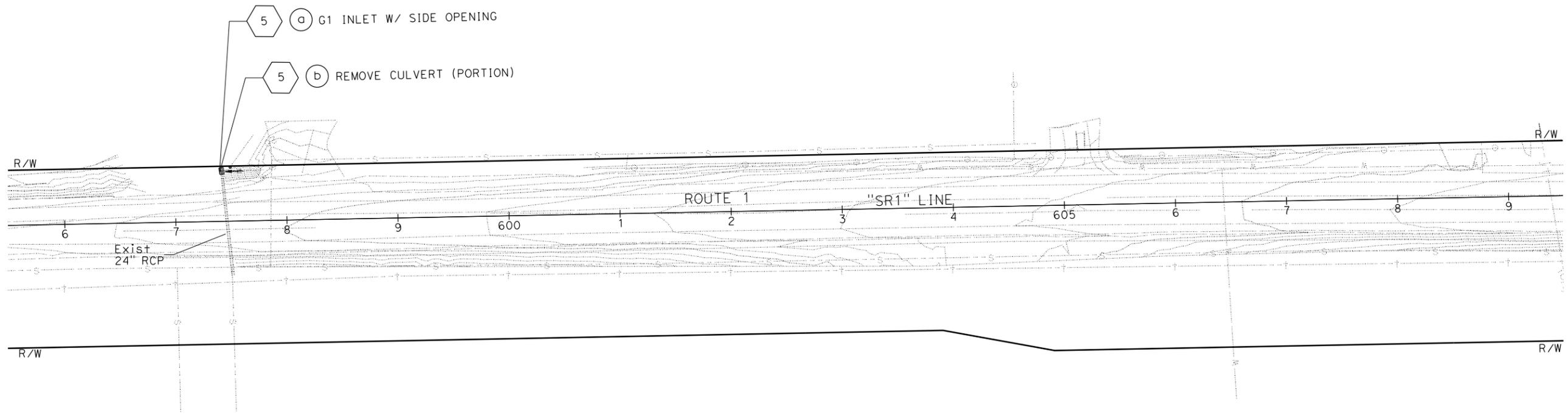
PLANS APPROVAL DATE	
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.	
AECOM 4 N. SECOND STREET, SUITE 675 SAN JOSE, CA 95113-2254	CALTRANS 111 GRAND AVENUE OAKLAND, CA 94612

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	KEVIN KRAMER	REVISOR	DATE
Caltrans	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

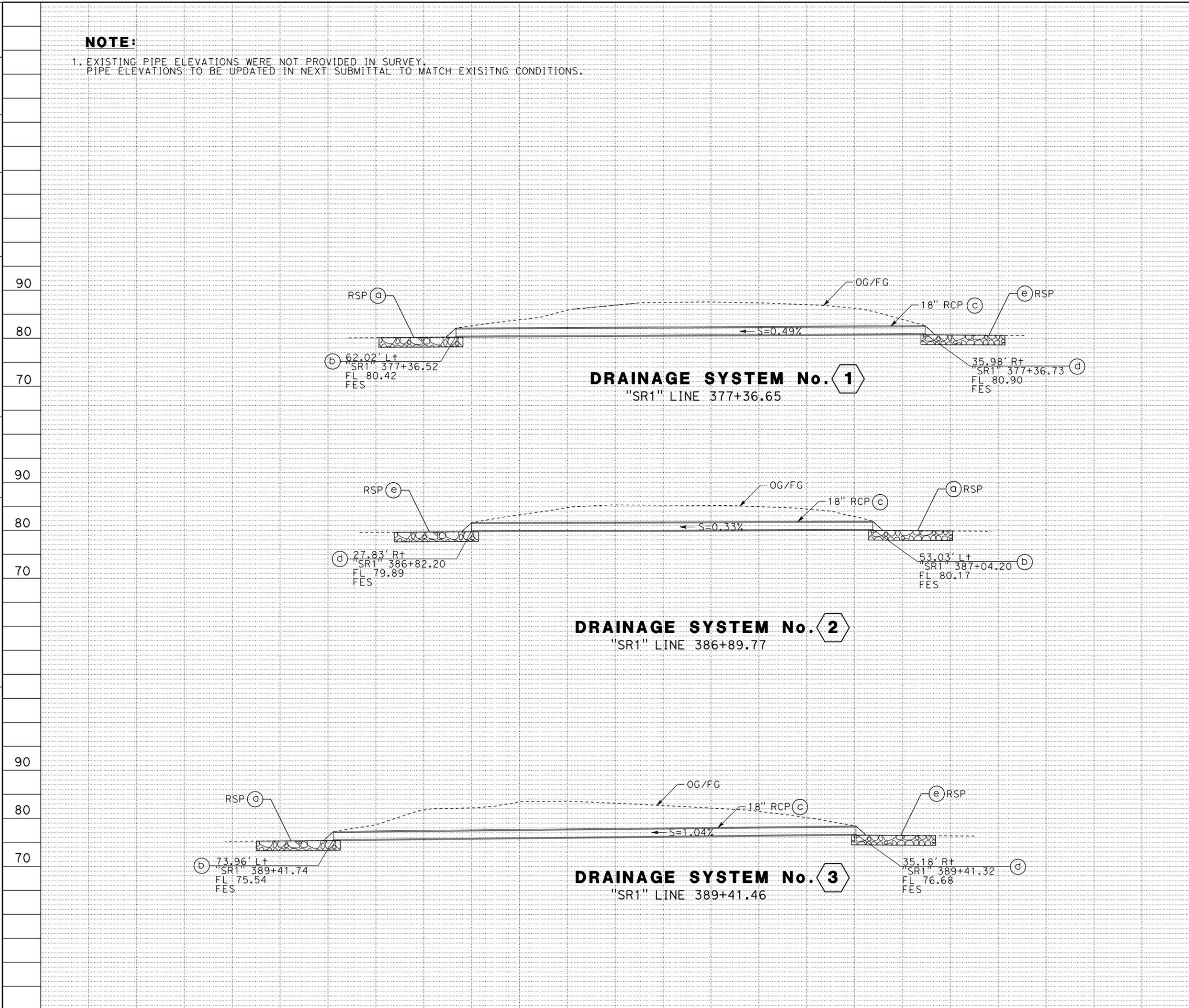
LAST REVISION | DATE PLOTTED => 30-OCT-2023
10-27-23 | TIME PLOTTED => 13:12

NOTE:

1. EXISTING PIPE ELEVATIONS WERE NOT PROVIDED IN SURVEY.
 PIPE ELEVATIONS TO BE UPDATED IN NEXT SUBMITTAL TO MATCH EXISTING CONDITIONS.

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			CALTRANS 111 GRAND AVENUE OAKLAND, CA 94612		

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



DRAINAGE PROFILE
 SCALE: Horiz 1" = 10'
 Vert 1" = 10'
DP-1

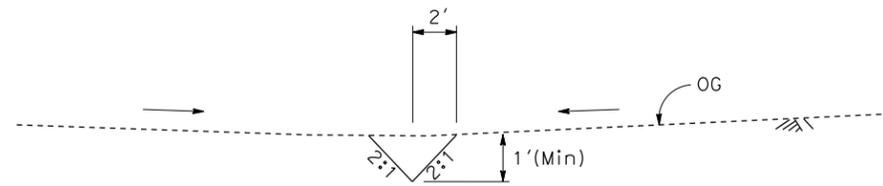
LAST REVISION DATE PLOTTED => 30-OCT-2023
 10-27-23 TIME PLOTTED => 13:14

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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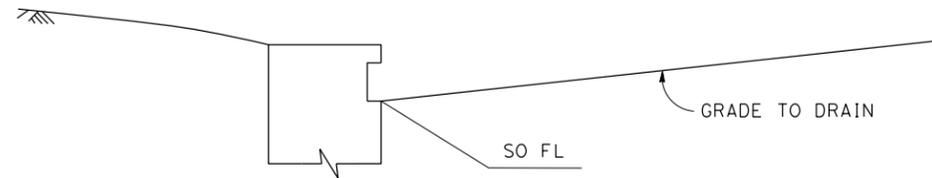
NOTE:

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

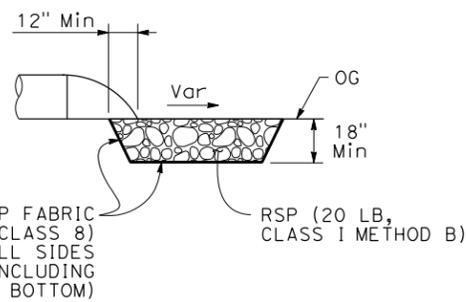


UNLINED DITCH (TYPICAL)

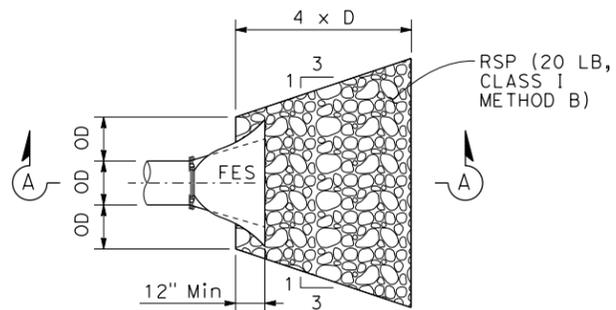
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SECTION B-B



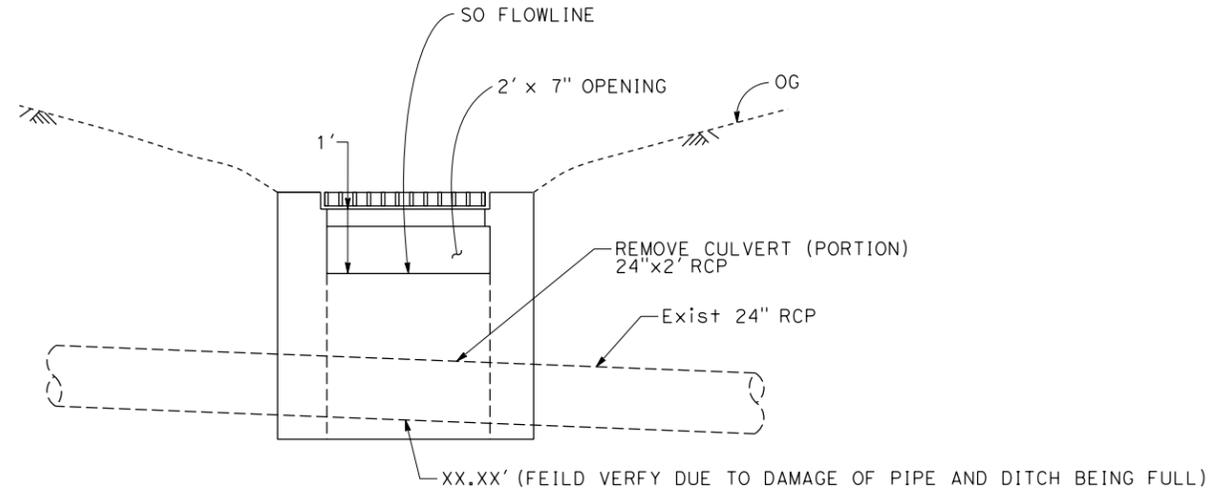
SECTION A-A



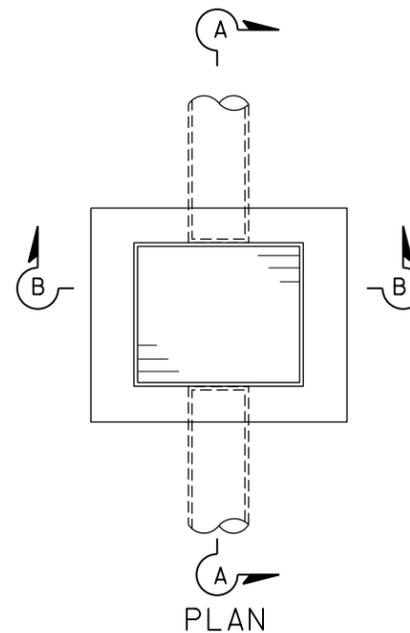
PLAN
CULVERT WITH END SECTION

RSP DETAIL

VARIOUS LOCATIONS



SECTION A-A



PLAN

G1 W/SIDE OPENING

5 c

DRAINAGE DETAILS

DD-1

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

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

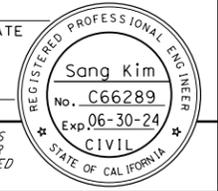
REGISTERED CIVIL ENGINEER DATE

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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	LB	EA	FT		
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			95												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	2.2	4.3													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
	h									54						UNLINED DITCH	32.96' Rt "SR1" 376+60 TO 31.60' Rt "SR1" 380+85
2	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
	g								1							REMOVE FES	27.83' Rt "SR1" 386+82
3	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
	g								1							REMOVE FES	35.18' Rt "SR1" 389+42
4	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
	f								1							REMOVE FES	44.68' Rt "SR1" 553+01
	g									1	1.5	1	263	1	5.1	G1 INLET W/ SIDE OPENING	43.95' Lt "SR1" 597+40
5	a						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		

(N) - NOT A SEPARATE BID ITEM

Not in Half Moon Bay LCP

DRAINAGE QUANTITIES

DQ-1

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

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
 Renewal 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

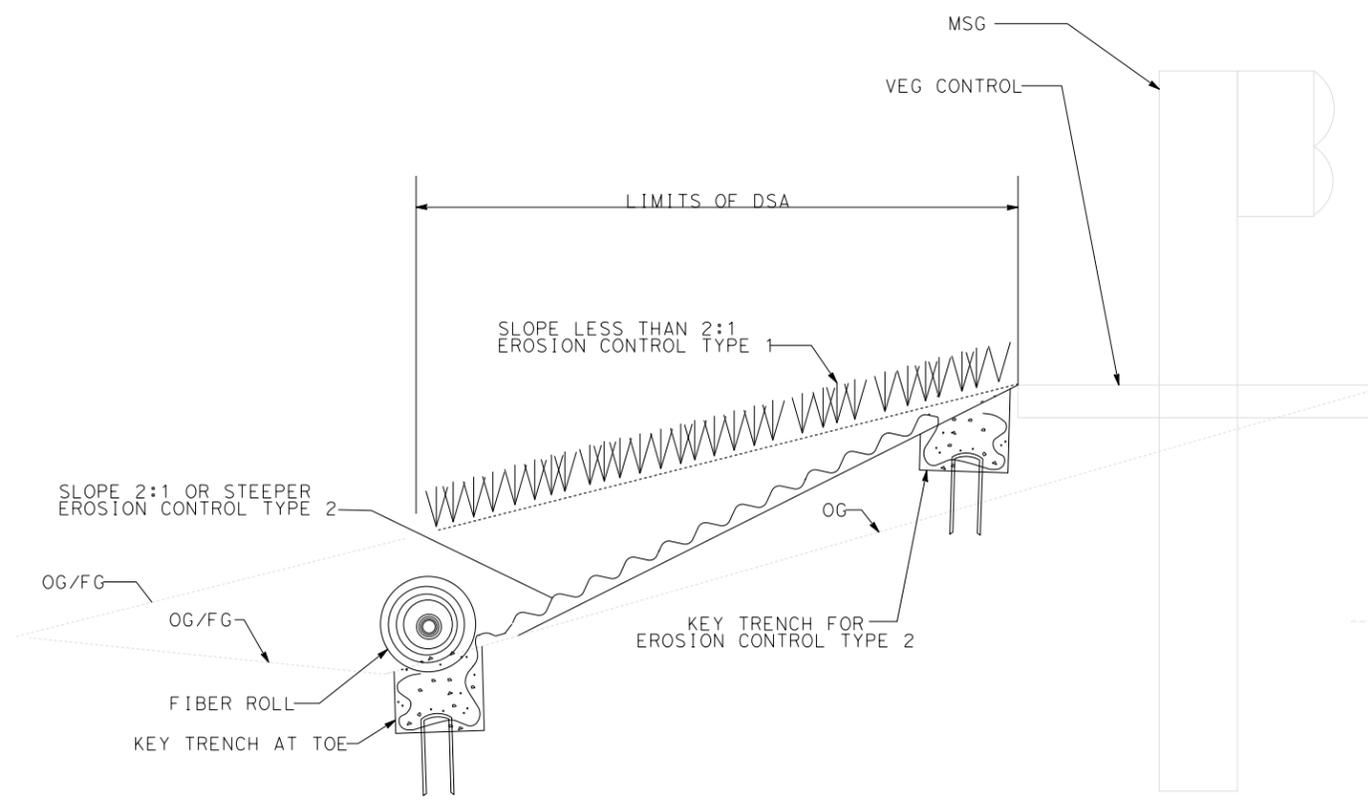
FIBER ROLLS MUST BE INSTALLED AFTER ROLLED EROSION CONTROL PRODUCT (NETTING) AND BEFORE HYDROSEEDING

**EROSION CONTROL LEGEND
 ECL-1**

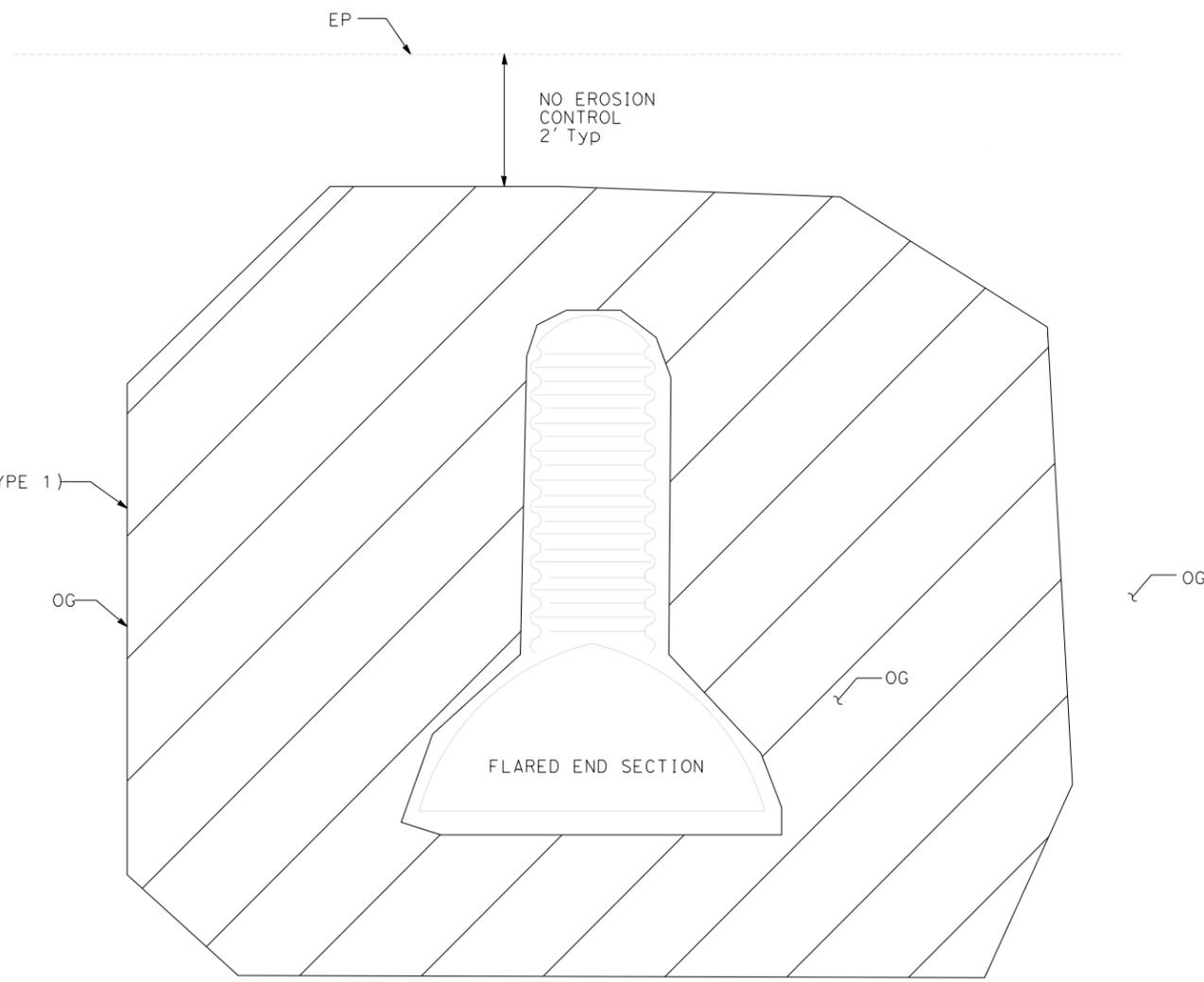


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	1	27.5/34.8		

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 MSGS



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
REVISER BY	DATE REVISED
CP	

SENIOR LANDSCAPE ARCHITECT
KIMBERLY WHITE

BORDER LAST REVISED 9/8/2021

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

RELATIVE BORDER SCALE
IS IN INCHES

UNIT 0000

PROJECT NUMBER & PHASE
0418000053

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

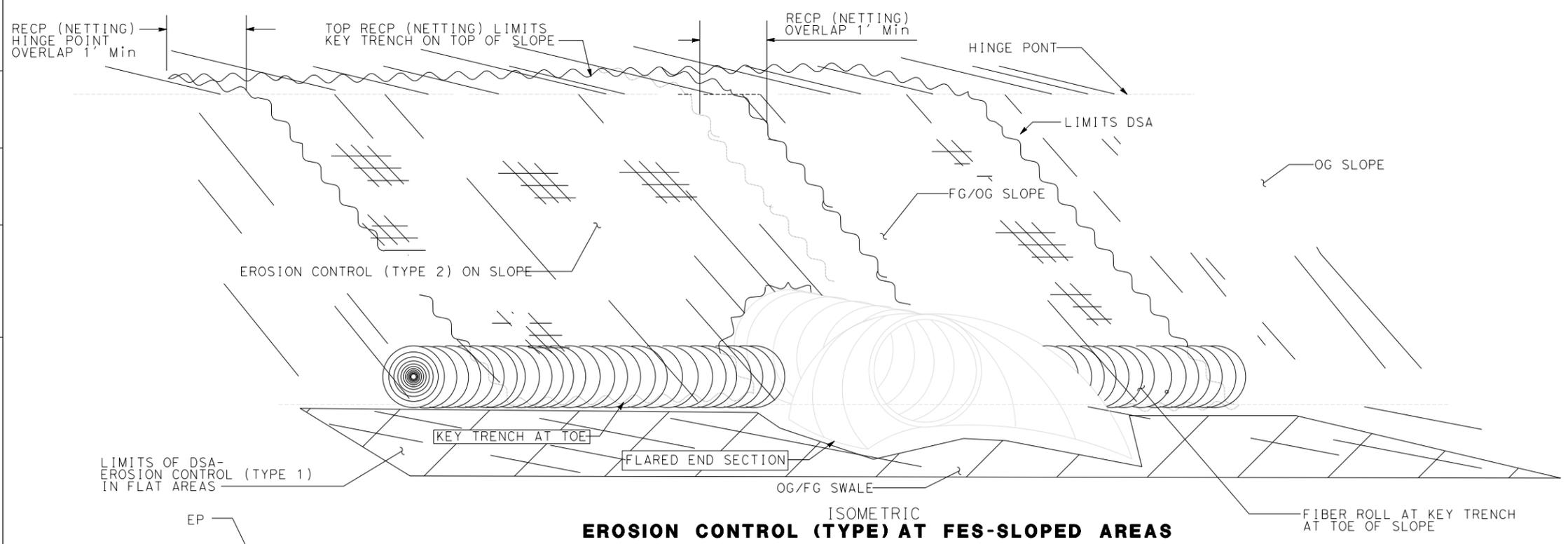
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	1	27.5/34.8		

LICENSED LANDSCAPE ARCHITECT

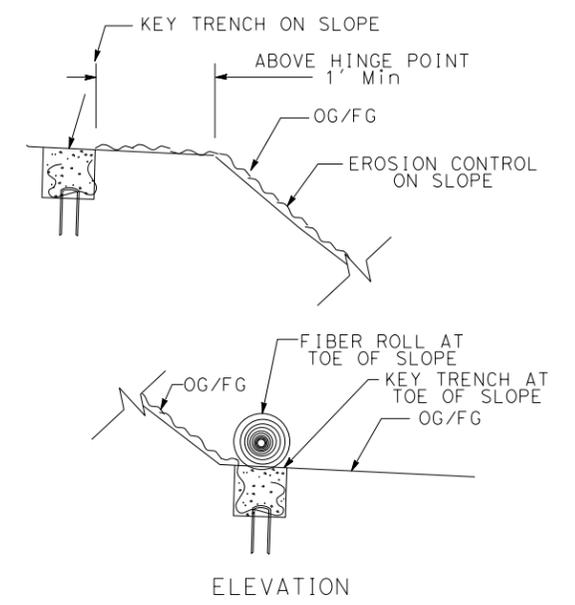
PLANS APPROVAL DATE

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Chris Padick No. 4195
 Signature: Chris Padick
 11-30-24
 Renewal Date
 Date

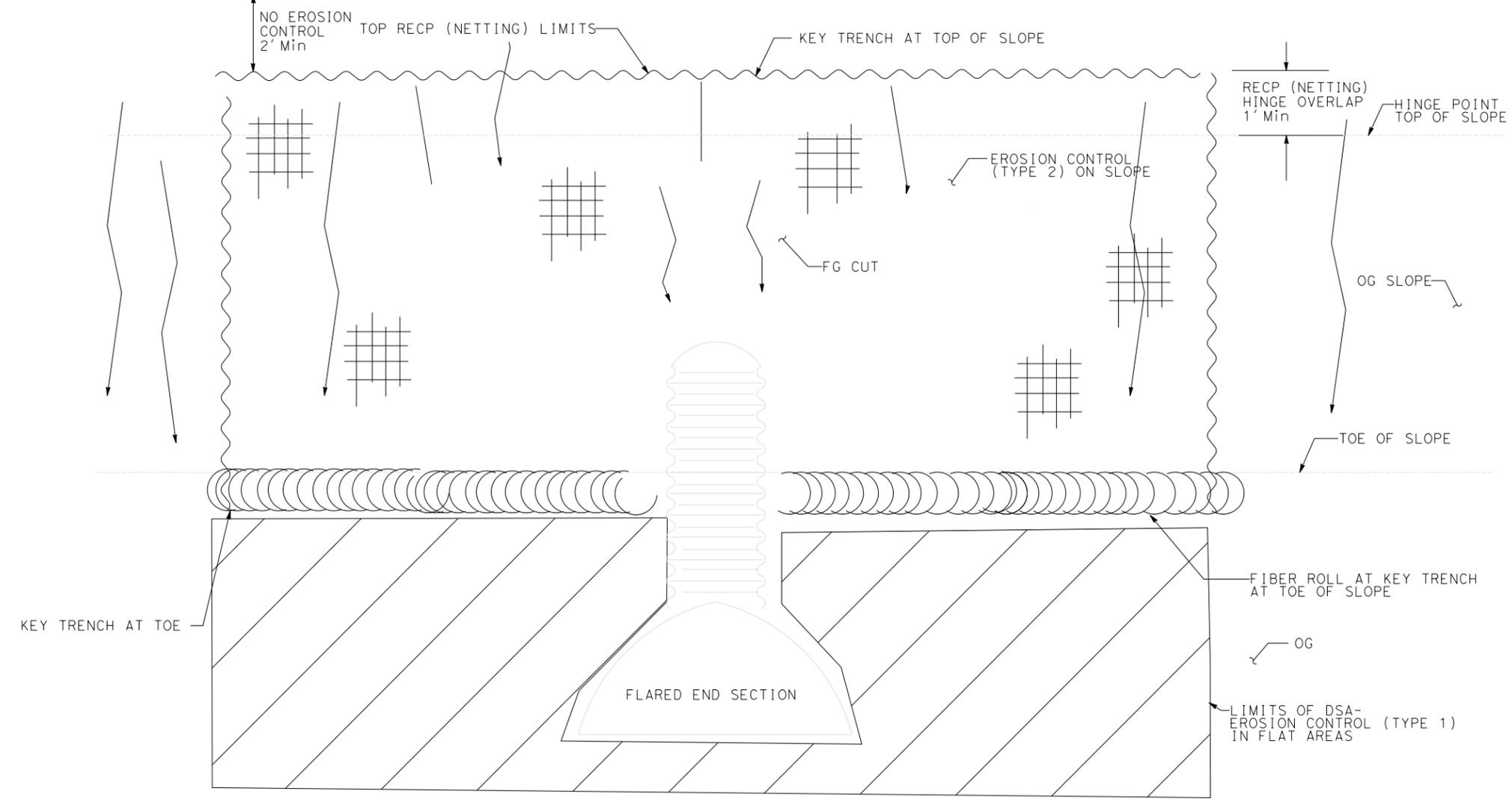


ISOMETRIC
EROSION CONTROL (TYPE 1) AT FES-SLOPED AREAS



ELEVATION

KEY TRENCH-SLOPED AREAS



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

**EROSION CONTROL DETAIL
 ECD-2**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT
 KIMBERLY WHITE

CALCULATED-DESIGNED BY
 CHECKED BY

CHRIS PADICK
 ALEX MCDONALD

REVISOR
 DATE
 CP
 DATE
 REVISION

USERNAME => ... \eccd-0418000053\rf002.dgn

RELATIVE BORDER SCALE IS IN INCHES
 0 1 2 3

UNIT 0000

PROJECT NUMBER & PHASE 0418000053

LAST REVISION DATE PLOTTED => 10/12/2023
 10-12-23 TIME PLOTTED => 3:37:18 PM

BORDER LAST REVISED 9/8/2021

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
D-1	"SR1" LINE 376+60-380+85	R+			2200	2200						FOR DRAINAGE SYSTEM 1-UNLINED DITCH	
	"SR1" LINE 376+90-377+20	L+		20	200	200		2.03	101.2	101.2	10.12		
L-4	"SR1" LINE 376+90-377+20	R+	200	20	200	200		0.18	9.2	9.2	0.92		
	"SR1" LINE 384+30-387+00	L+			600	600		0.18	9.2	9.2	0.92		
D-2	"SR1" LINE 386+80-387+10	R+	200	20	200	200		0.55	27.6	27.6	2.76		
	"SR1" LINE 386+95-387+15	L+			200	200		0.18	9.2	9.2	0.92		
L-4	"SR1" LINE 387+75-389+80	L+			600	600		0.55	27.6	27.6	2.76		
	"SR1" LINE 389+30-389+60	R+			600	600		0.55	27.6	27.6	2.76		
D-2	"SR1" LINE 389+30-389+60	R+	600	20	600	600		0.55	27.6	27.6	2.76		
	"SR1" LINE 390+85-393+60	L+			600	600		0.55	27.6	27.6	2.76		
L-5	"SR1" LINE 402+20-403+75	R+			400	400		0.37	18.4	18.4	1.84		
	"SR1" LINE 406+50-409+50	L+			600	600		0.55	27.6	27.6	2.76		
L-6	"SR1" LINE 409+50-410+00	R+			100	100		0.14	4.6	4.6	0.46		
	"SR1" LINE 418+40-419+48	R+			300	300		0.27	13.8	13.8	1.38		
L-11	"SR1" LINE 421+60-423+30	L+			300	300		0.27	13.8	13.8	1.38		
	"SR1" LINE 484+30-488+15	R+	EC TYPE 1		400	400		0.37	18.4	18.4	1.84		
L-12	"SR1" LINE 489+00-489+50	L+			100	100		0.09	4.6	4.6	0.46		
	"SR1" LINE 489+50-494+95	R+			1,800	1,800		2.52	82.8	82.8	8.28		
L-13	"SR1" LINE 489+75-493+15	R+			900	900		1.26	41.4	41.4	4.14		
	"SR1" LINE 502+40-502+50	L+			100	100		0.56	18.4	18.4	1.84		
L-14	"SR1" LINE 502+50-504+00	R+			450	450		0.42	20.7	20.7	2.07		
	"SR1" LINE 519+50-521+23	R+			400	400		0.37	18.4	18.4	1.84		
L-14	"SR1" LINE 528+35-530+08	L+	EC TYPE 2	400	20	400	400		0.37	18.4	18.4	1.84	
	"SR1" LINE 528+35-530+10	R+		400	20	400	400		0.37	18.4	18.4	1.84	
D-1	"SR1" LINE 546+05-547+30	L+			450	450		0.42	20.7	20.7	2.07		
	"SR1" LINE 546+15-546+60	R+			450	450		0.42	20.7	20.7	2.07		
D-2	"SR1" LINE 552+05-553+15	R+			400	400		0.56	18.4	18.4	1.84		
	"SR1" LINE 552+30-553+10	L+			400	400		0.37	18.4	18.4	1.84		
L-10	"SR1" LINE 552+00-554+10	R+	EC TYPE 1		450	450		0.42	20.7	20.7	2.07		
	"SR1" LINE 557+40-557+00	R+			400	400		0.37	18.4	18.4	1.84		
D-4	"SR1" LINE 653+05-654+35	R+			450	450		0.42	20.7	20.7	2.07		
	"SR1" LINE 653+15-654+20	L+			450	450		0.42	20.7	20.7	2.07		
SUB-TOTAL			1,800	120	17,000	17,000	3						

(N) - NOT A SEPARATE BID ITEM

Not in Half Moon Bay LCP

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

EROSION CONTROL QUANTITIES ECQ-1

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