CML-5028(083)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	1	247

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION OF
ROUTE 101 BICYCLE AND PEDESTRIAN OVERCROSSING
IN SONOMA COUNTY
IN SANTA ROSA
AT 0.3 MILE SOUTH OF STEELE LANE UNDERCROSSING

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2024

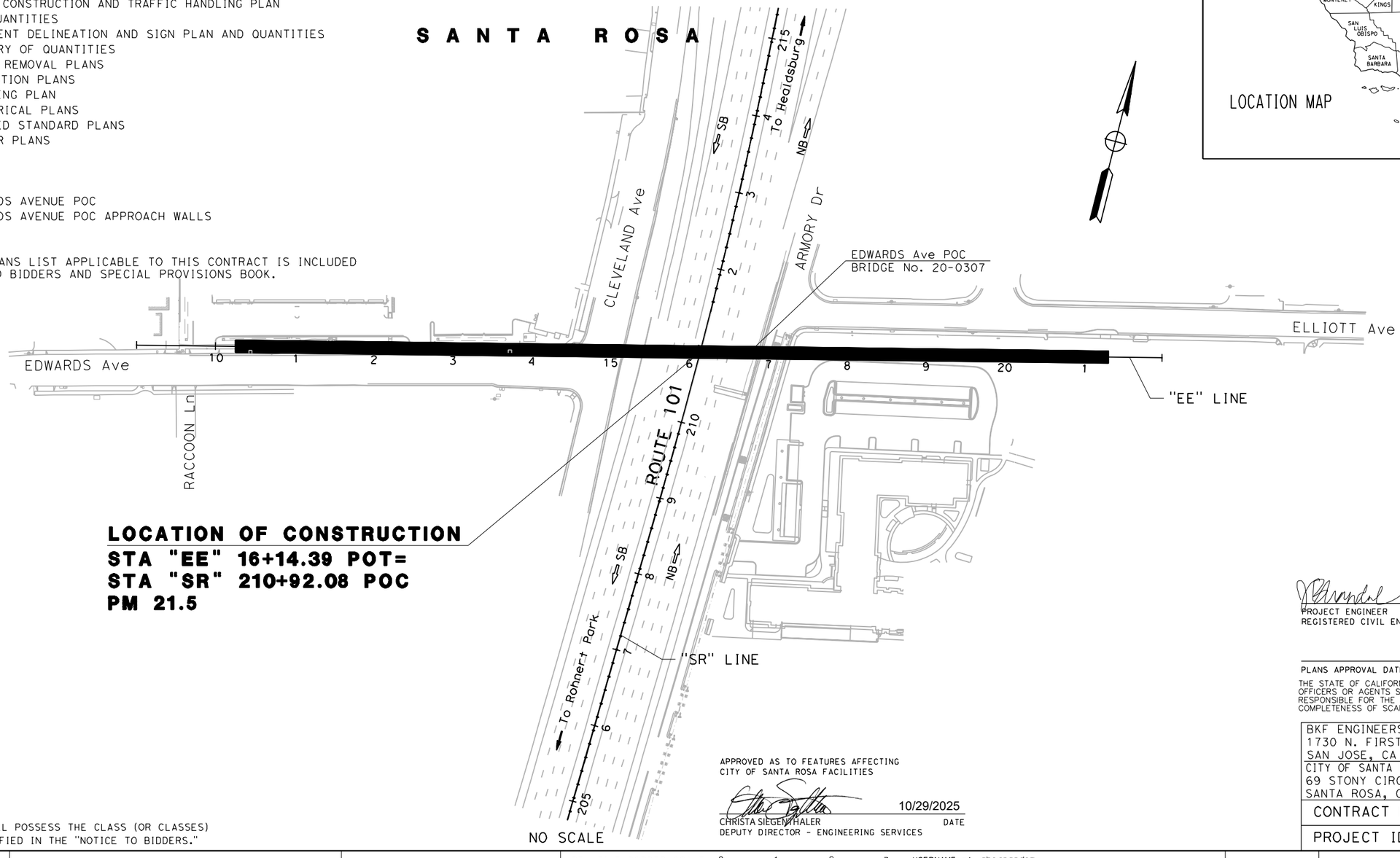
INDEX OF PLANS

SHEET No.	DESCRIPTION
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2-3	TYPICAL CROSS SECTIONS
4	KEY MAP AND LINE INDEX
5	PROJECT CONTROL
6-8	LAYOUT
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223-247	EDWARDS AVENUE POC APPROACH WALLS

THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.



LOCATION OF CONSTRUCTION
STA "EE" 16+14.39 POT=
STA "SR" 210+92.08 POC
PM 21.5



LOCATION MAP

APPROVED AS TO FEATURES AFFECTING CITY OF SANTA ROSA FACILITIES

10/29/2025
CHRISTA SIEGENTHALER — DATE
DEPUTY DIRECTOR - ENGINEERING SERVICES

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

2-21-25
PROJECT ENGINEER — DATE
REGISTERED CIVIL ENGINEER

REGISTERED PROFESSIONAL ENGINEER
J.S. BHANDAL
No. 77430
Exp. 6-30-25
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.

BKF ENGINEERS
1730 N. FIRST STREET, SUITE 600
SAN JOSE, CA 95112
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

CONTRACT No.	04-2G3404
PROJECT ID	0413000213

LAST REVISION 02-21-25
DATE PLOTTED => 5/12/2025
TIME PLOTTED => 9:07:47 AM

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

CONSULTANT DESIGN MANAGER: JAGGI S. BHANDAL — LICENSE Exp DATE: 11-31-26
CALTRANS DESIGN OVERSIGHT APPROVAL: FRED J. WITTEBORN — REGISTRATION No.: C056272 — DATE SIGNED: 2-21-25

NOTE:

DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTION) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.

ABBREVIATIONS:

BW	BACK OF WALK
C&G	CURB AND GUTTER
CLF	CHAIN LINK FENCE
COSR	CITY OF SANTA ROSA
PA	PLANTING AREA
Rem	REMOVE
TC	TOP OF CURB

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	2	247

REGISTERED CIVIL ENGINEER — DATE 2-21-25

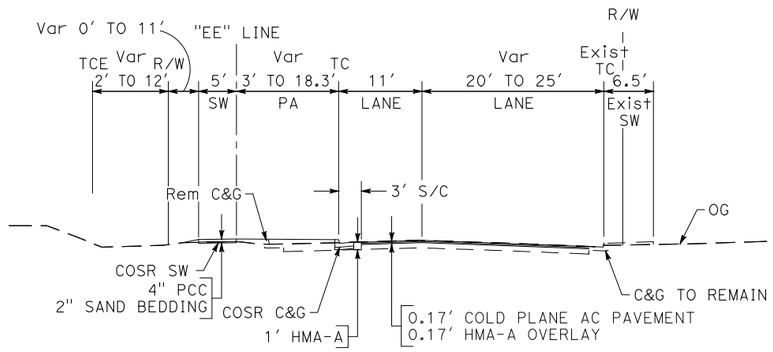
REGISTERED PROFESSIONAL ENGINEER — J.S. BHANDAL No. 77430 Exp. 6-30-25 CIVIL — STATE OF CALIFORNIA

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.

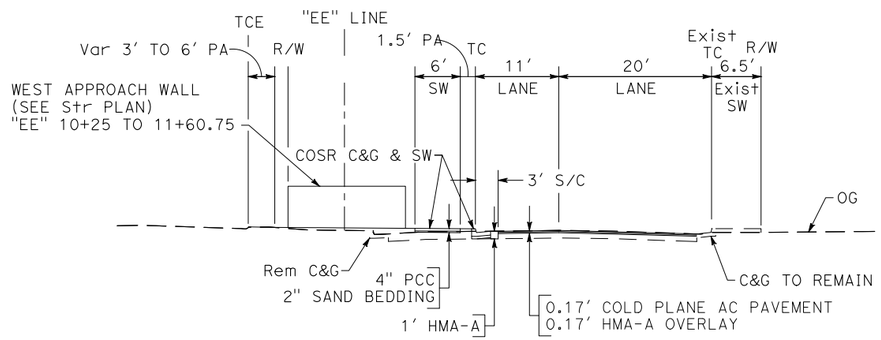
BKF ENGINEERS
7901 STONERIDGE DRIVE, SUITE 360
PLEASANTON, CA 94588

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404



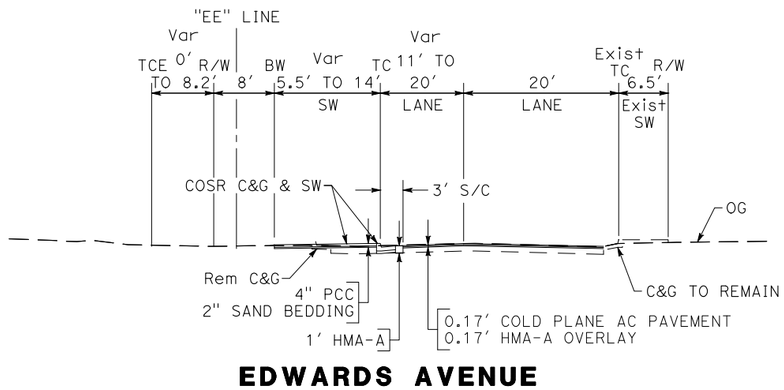
EDWARDS AVENUE

"EE" 11+86.40 TO 14+28.52



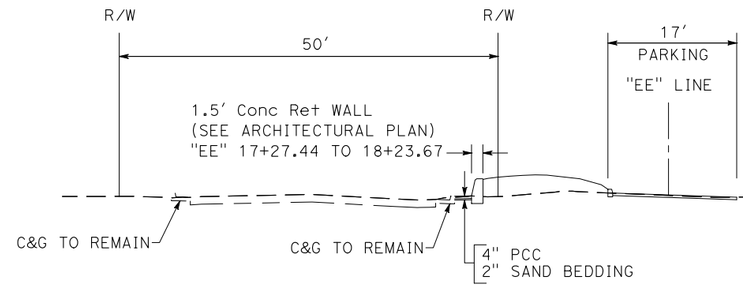
EDWARDS AVENUE

"EE" 10+00 TO 11+86.40



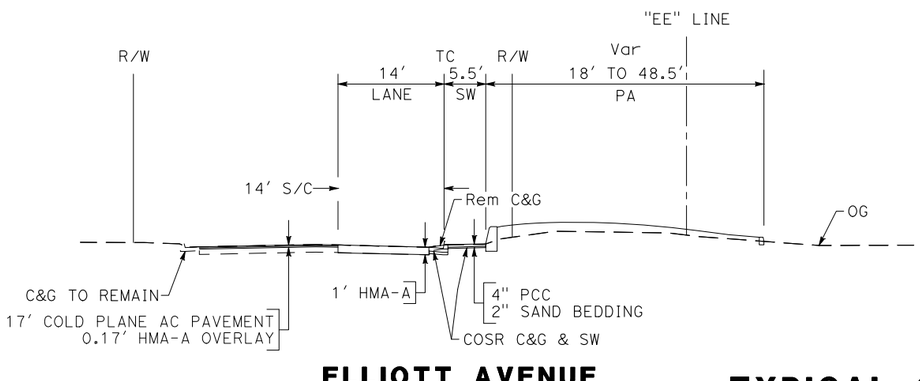
EDWARDS AVENUE

"EE" 9+17.94 TO 10+00



ELLIOTT AVENUE

"EE" 18+01.58 TO 19+37.25



ELLIOTT AVENUE

"EE" 17+49.60 TO 18+01.58

TYPICAL CROSS SECTIONS

NO SCALE

X-1

LAST REVISION 02-21-25 | DATE PLOTTED => Apr 29 2025 | TIME PLOTTED => 10:57 am

TM	2-21-25	TRENT MCGOWAN	CARMELO CECILIO		
REVISED BY	DATE REVISED	CALCULATED-DESIGNED BY	CHECKED BY		

CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

BORDER LAST REVISED 7/2/2010 | USERNAME => ahernandez | DGN FILE => ca_X-01.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	3	247

REGISTERED CIVIL ENGINEER — DATE 2-21-25

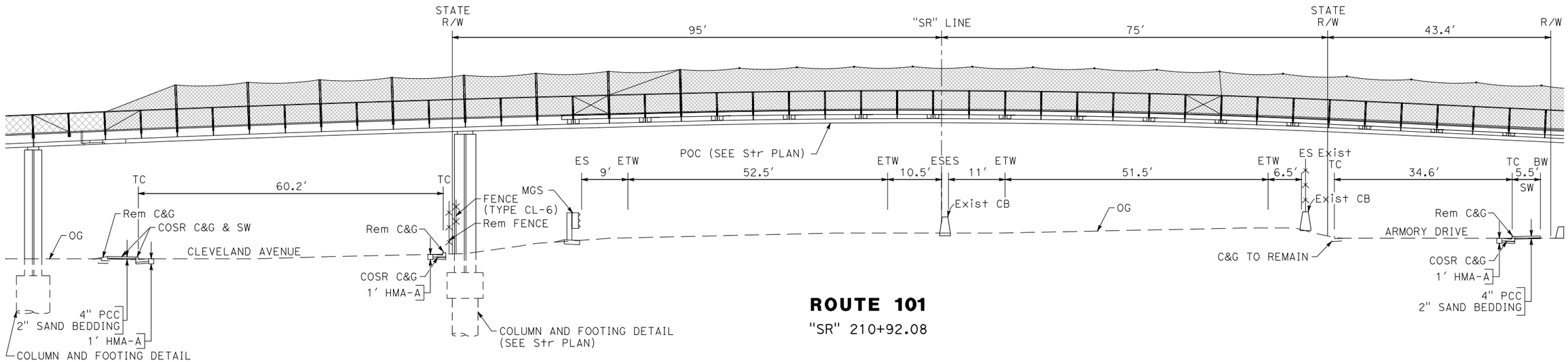
REGISTERED PROFESSIONAL ENGINEER — J.S. BHANDAL — No. 77430 — Exp. 6-30-25 — CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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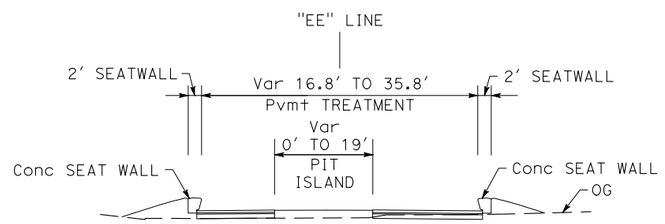
BKF ENGINEERS
7901 STONERIDGE DRIVE, SUITE 360
PLEASANTON, CA 94588

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

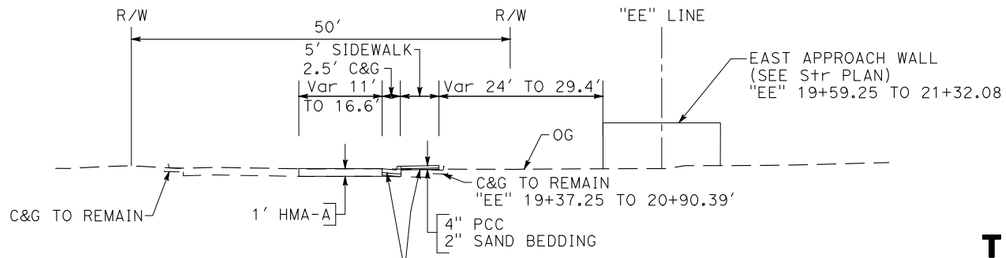


ROUTE 101

"SR" 210+92.08



"EE" 21+30.75 TO 21+70.55



ELLIOTT AVENUE

"EE" 20+90.40 TO 21+86.16

FOR NOTE AND ABBREVIATIONS, SEE SHEET X-1

TYPICAL CROSS SECTIONS

NO SCALE

X-2

REVISED BY	DATE REVISED
TM	2-21-25

CALCULATED-DESIGNED BY: TRENT MCGOWAN
CHECKED BY: CARMELO CECILIO
CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 02-21-25
DATE PLOTTED => Apr 29 2025
TIME PLOTTED => 10:57 am

BORDER LAST REVISED 7/2/2010
USERNAME => ahernandez
DGN FILE => ca_X-02.dwg
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0751
PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	4	247

REGISTERED CIVIL ENGINEER — DATE: 2-21-25

REGISTERED PROFESSIONAL ENGINEER — J.S. BHANDAL — No. 77430 — Exp. 6-30-25 — CIVIL — STATE OF CALIFORNIA

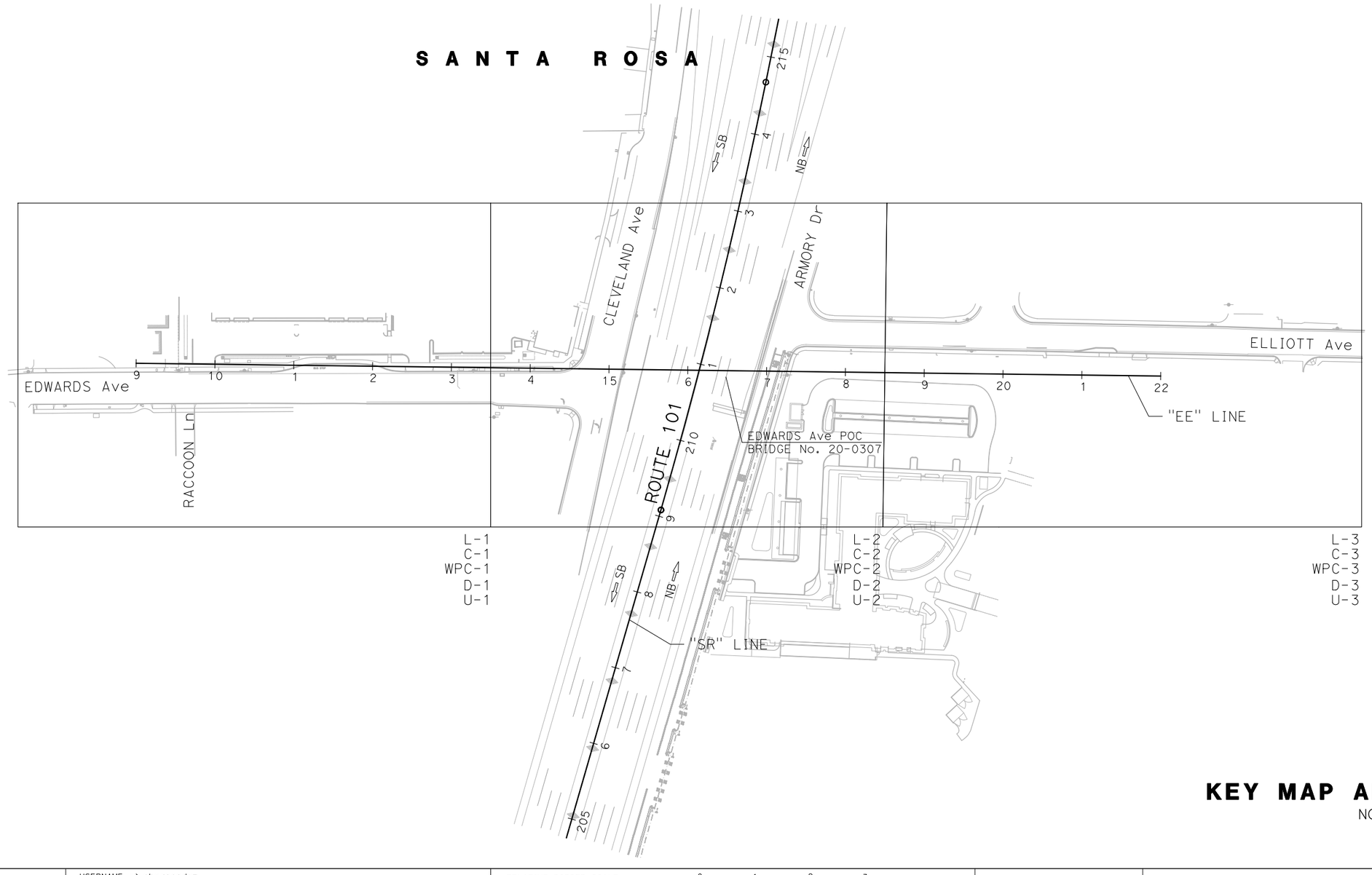
PLANS APPROVAL DATE

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BKF ENGINEERS
7901 STONERIDGE DRIVE, SUITE 360
PLEASANTON, CA 94588

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

SANTA ROSA



KEY MAP AND LINE INDEX

NO SCALE

K-1

		TM	2-21-25
		REVISED BY	DATE REVISED
		TRENT MCGOWAN	
		CARMELO CECILIO	
CALCULATED-DESIGNED BY			
CHECKED BY			

CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 02-21-25
DATE PLOTTED => Apr 29 2025
TIME PLOTTED => 10:58 am

BORDER LAST REVISED 7/2/2010

USERNAME => ahernandez
DGN FILE => da_K-01.dwg

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0751

PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	5	247

Ralph H. Thomas 2-21-25
LICENSED LAND SURVEYOR

PLANS APPROVAL DATE

LICENSED LAND SURVEYOR — RALPH H. THOMAS No. 4760 — STATE OF CALIFORNIA

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.

BKF ENGINEERS
7901 STONERIDGE DRIVE, SUITE 360
PLEASANTON, CA 94588

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

BASIS OF BEARINGS:

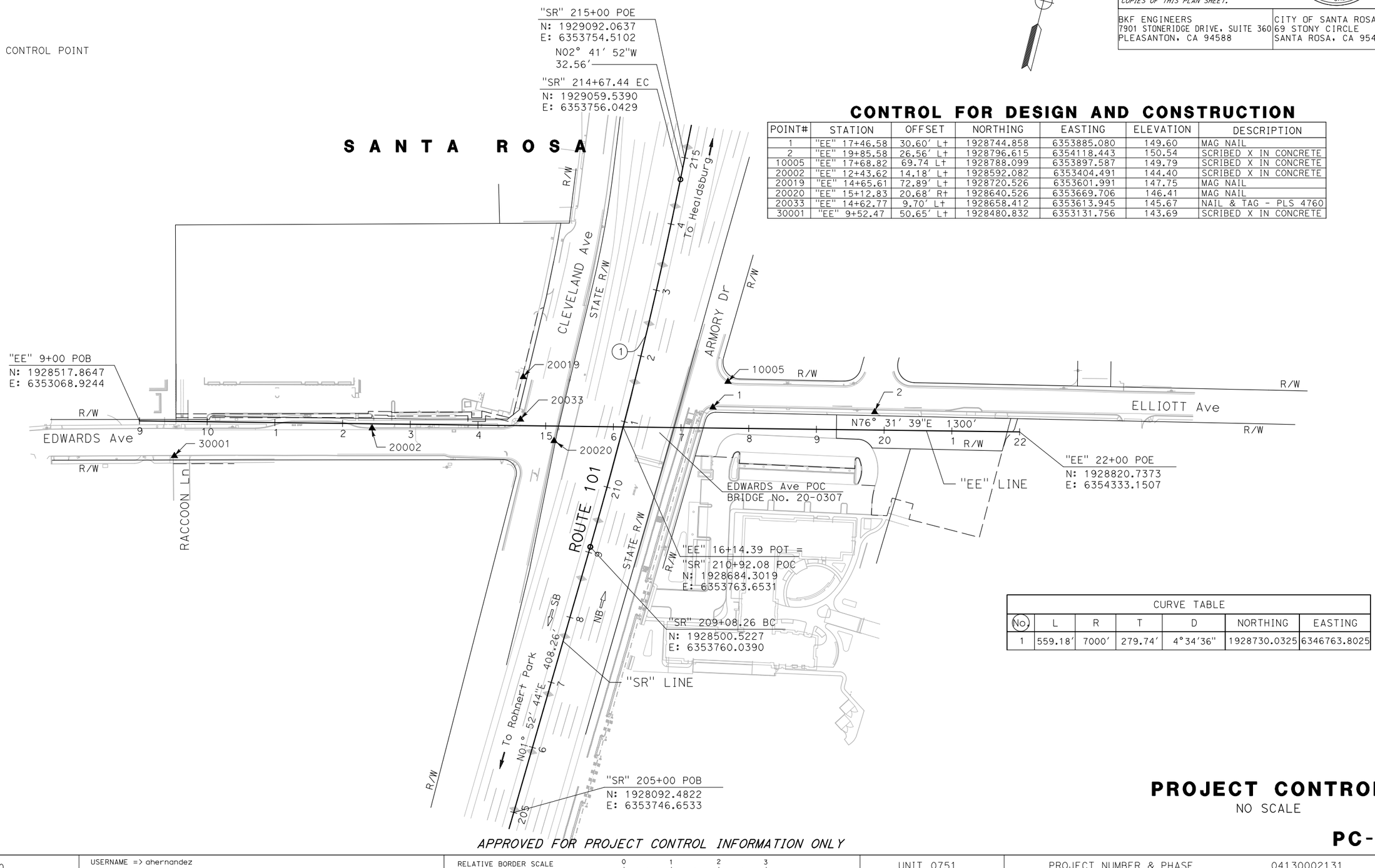
CITY OF SANTA ROSA HORIZONTAL CONTROL MONUMENTS G-13 AND G-1005. THE BEARING S 1°19'42" W BETWEEN CONTROL MONUMENTS G-13 AND G-1005 WAS TAKEN AS THE BASIS OF BEARING OF THIS CONTROL SURVEY. HORIZONTAL DATUM BASED ON CCS Zone 2 NAD 83 (2011) Epoch 2010. TO CONVERT FROM GRID TO GROUND, MULTIPLY DISTANCES BY 1.00002803.

PROJECT BENCHMARK:

CITY OF SANTA ROSA BENCHMARK D123, DESCRIBED AS CITY DISK IN WELL MONUMENT. 5 FT. NORTH OF CL INTERSECTION, AT THE SOUTH END OF CURB AT THE INTERSECTION OF MENDOCINO AVENUE AND RUSSELL AVENUE. ELEV.= 168.82.

LEGEND:

▲ PROJECT CONTROL POINT



CONTROL FOR DESIGN AND CONSTRUCTION

POINT#	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	"EE" 17+46.58	30.60′ L+	1928744.858	6353885.080	149.60	MAG NAIL
2	"EE" 19+85.58	26.56′ L+	1928796.615	6354118.443	150.54	SCRIBED X IN CONCRETE
10005	"EE" 17+68.82	69.74 L+	1928788.099	6353897.587	149.79	SCRIBED X IN CONCRETE
20002	"EE" 12+43.62	14.18′ L+	1928592.082	6353404.491	144.40	SCRIBED X IN CONCRETE
20019	"EE" 14+65.61	72.89′ L+	1928720.526	6353601.991	147.75	MAG NAIL
20020	"EE" 15+12.83	20.68′ R+	1928640.526	6353669.706	146.41	MAG NAIL
20033	"EE" 14+62.77	9.70′ L+	1928658.412	6353613.945	145.67	NAIL & TAG - PLS 4760
30001	"EE" 9+52.47	50.65′ L+	1928480.832	6353131.756	143.69	SCRIBED X IN CONCRETE

CURVE TABLE						
No.	L	R	T	D	NORTHING	EASTING
1	559.18′	7000′	279.74′	4°34′36"	1928730.0325	6346763.8025

APPROVED FOR PROJECT CONTROL INFORMATION ONLY

PROJECT CONTROL

NO SCALE

PC-1

		REVISED BY	IT
		DATE REVISED	2-21-25
		IAIN TOMLINSON	RALPH H. THOMAS
		CALCULATED-DESIGNED BY	
		CHECKED BY	
		CONSULTANT FUNCTIONAL SUPERVISOR	JAGGI S. BHANDAL
		STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans

LAST REVISION 02-21-25
DATE PLOTTED => Apr 29 2025
TIME PLOTTED => 10:58 am

BORDER LAST REVISED 7/2/2010
USERNAME => ahernandez
DGN FILE => dc_PC-01.dwg
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0751
PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	6	247

REGISTERED CIVIL ENGINEER — DATE 2-21-25

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — J.S. BHANDAL — No. 77430 — Exp. 6-30-25 — CIVIL — STATE OF CALIFORNIA

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BKF ENGINEERS
7901 STONERIDGE DRIVE, SUITE 360
PLEASANTON, CA 94588

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

NOTES:

1. FOR COLOR, TEXTURE AND FINISH OF CONCRETE WORK, SEE ARCHITECTURAL PLAN.
2. SEE CONSTRUCTION DETAILS (C SHEETS) FOR GRADING AND ADDITIONAL CALLOUTS.
3. FOR BRIDGE RETAINING WALL DETAILS, SEE STRUCTURE PLAN.
4. SEE CITY OF SANTA ROSA STANDARD PLANS FOR SIDEWALK, CURB AND GUTTER DETAILS NOT OTHERWISE SHOWN.
5. FOR POLYESTER CONCRETE OVERLAY LOCATION AND STRUCTURAL SECTION, SEE STRUCTURE PLAN.

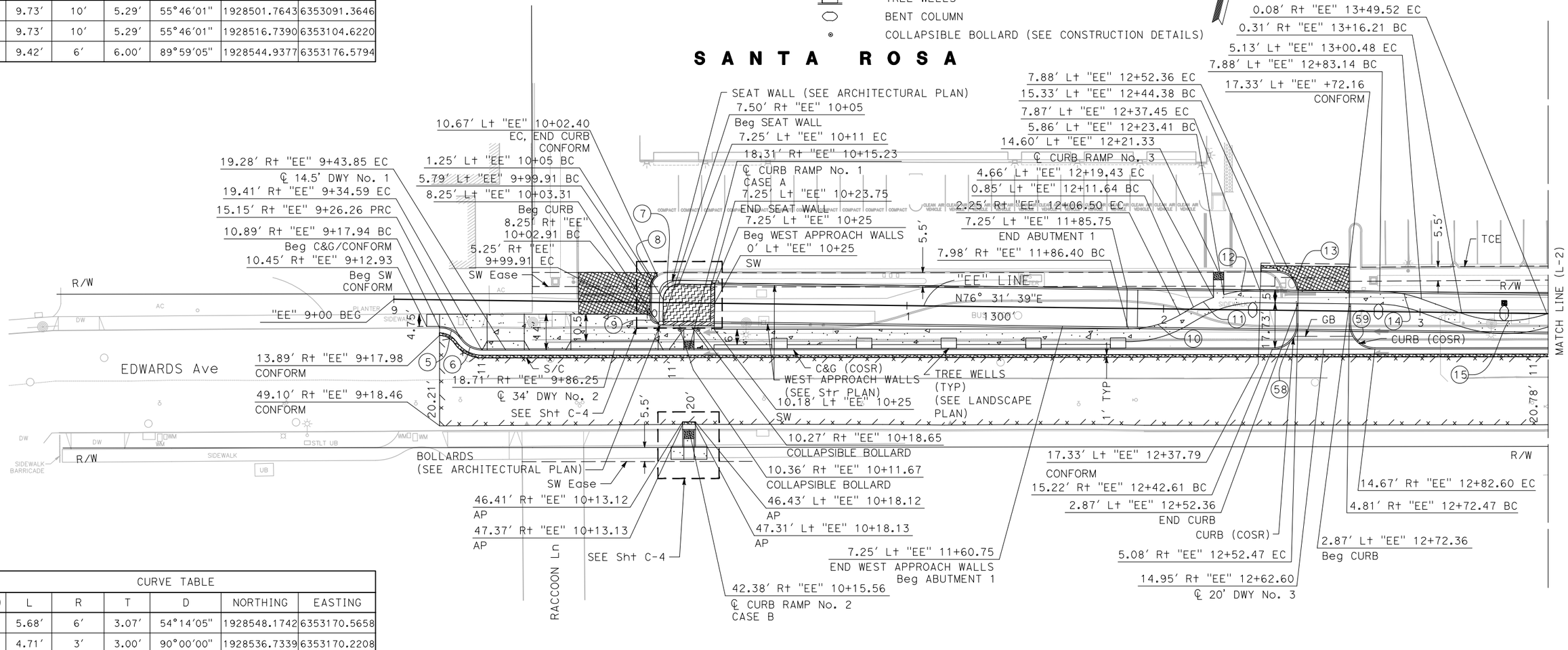
ABBREVIATIONS:

AIT	ALTERNATE IN-LINE TERMINAL TL-3
AP	ANGLE POINT
C&G	CURB AND GUTTER
COSR	CITY OF SANTA ROSA
HMA-A	HOT MIX ASPHALT (TYPE A)

LEGEND:

- 0.17' COLD PLANE AC PAVEMENT / 0.17' HMA-A OVERLAY
- AC SURFACE (1' HMA-A DEPTH)
- MINOR CONCRETE (SIDEWALK/CURB RAMP/DRIVEWAY)
- PAVEMENT TREATMENT 1 (SEE ARCHITECTURAL PLAN)
- PAVEMENT TREATMENT 2 (SEE ARCHITECTURAL PLAN)
- PAVEMENT TREATMENT 3 (SEE CONSTRUCTION DETAILS)
- (No.) CURVE DATA NUMBER
- VGC VEGETATION CONTROL (MINOR CONCRETE)
- DETECTABLE WARNING SURFACE
- TREE WELLS
- BENT COLUMN
- COLLAPSIBLE BOLLARD (SEE CONSTRUCTION DETAILS)

CURVE TABLE						
(No.)	L	R	T	D	NORTHING	EASTING
5	9.73'	10'	5.29'	55°46'01"	1928501.7643	6353091.3646
6	9.73'	10'	5.29'	55°46'01"	1928516.7390	6353104.6220
7	9.42'	6'	6.00'	89°59'05"	1928544.9377	6353176.5794



CURVE TABLE						
(No.)	L	R	T	D	NORTHING	EASTING
8	5.68'	6'	3.07'	54°14'05"	1928548.1742	6353170.5658
9	4.71'	3'	3.00'	90°00'00"	1928536.7339	6353170.2208
10	21.15'	40'	10.83'	30°17'02"	1928615.5964	6353339.4601
11	8.68'	50'	4.35'	9°56'03"	1928555.6593	6353406.8659
12	14.23'	50'	7.16'	16°18'01"	1928555.5171	6353406.9000
13	12.02'	8'	7.47'	86°06'01"	1928605.2272	6353402.1175
14	16.64'	50'	8.40'	19°04'02"	1928566.3965	6353452.3122
15	33.96'	50'	17.66'	38°54'04"	1928664.2953	6353478.6302
58	15.71'	10'	10.00'	89°59'05"	1928592.5772	6353403.1869
59	15.71'	10'	10.00'	90°00'00"	1928602.4248	6353441.9557

LAYOUT

SCALE: 1" = 20'

L-1

CALCULATED-DESIGNED BY	
CHECKED BY	
TM	2-21-25
REVISED BY	DATE REVISED
TRENT MCGOWAN	CARMELO CECILIO
CONSULTANT FUNCTIONAL SUPERVISOR	JAGGI S. BHANDAL
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans

LAST REVISION 02-21-25 | DATE PLOTTED => Apr 29 2025 | TIME PLOTTED => 10:59 am

BORDER LAST REVISED 7/2/2010 | USERNAME => ahernandez | DGN FILE => ea_L-01.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	7	247

REGISTERED CIVIL ENGINEER — DATE 2-21-25

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — J.S. BHANDAL No. 77430 Exp. 6-30-25 CIVIL — STATE OF CALIFORNIA

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BKF ENGINEERS
7901 STONERIDGE DRIVE, SUITE 360
PLEASANTON, CA 94588

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
TM	CARMELO CECILIO	TRENT MCGOWAN	2-21-25

CONSULTANT FUNCTIONAL SUPERVISOR — JAGGI S. BHANDAL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CURVE TABLE						
No.	L	R	T	D	NORTHING	EASTING
16	46.50′	60′	24.49′	44°23′05"	1928579.6778	6353550.1636
17	37.61′	34′	20.99′	63°22′02"	1928671.9229	6353568.2423
18	10.47′	20′	5.36′	29°58′05"	1928648.6336	6353581.2078
19	53.32′	40′	31.46′	76°22′00"	1928667.6264	6353576.7894
20	26.32′	20′	15.46′	75°23′02"	1928727.7577	6353892.0873
21	2.99′	1.50′	2.33′	114°21′04"	1928677.2027	6353905.9064

SANTA ROSA

CLEVELAND Ave

STATE R/W

SB ⇩

NB ⇧

ARMORY Dr

ELLIOTT Ave

EDWARDS Ave

ROUTE 101

"SR" LINE

"EE" LINE

MATCH LINE (L-1)

MATCH LINE (L-3)

SW Ease

AIT

MGS (TYPE 16A LAYOUT)

FENCE (TYPE CL-6)

FENCE (TYPE CL-6)

ANCHOR Assy (TYPE SFT-M)

CURB RAMP No. 5

CURB RAMP No. 4 CASE A

EDWARDS Ave POC BRIDGE No. 20-0307

"E" 16+14.39 POT = "SR" 210+92.08 POC

CASE C

C&G (COSR)

1.5′ CURB (COSR)

TCE

72.32′ Lt "SR" 211+92.89
END MGS

6.99′ Lt "EE" 14+42.78 EC
14.44′ Lt "EE" 14+52.03 AP
29.95′ Rt "EE" 14+61.69
END SW
CONFORM
23.19′ Lt "EE" 14+68.87
END C&G AND SW
CONFORM
18.42′ Lt "EE" 14+67.78 EC
20.74′ Lt "EE" 14+79.59
CONFORM

4.43′ Lt "EE" 13+62.04 BC
2.56′ Lt "EE" 14+07.34 PRC
8.56′ Rt "EE" 14+17.05 BC

18.73′ Lt "EE" 15+13.42
CONFORM
21.23′ Lt "EE" 15+25.28
END CL-6
17′ Lt "EE" 15+21.24
END C&G
CONFORM
3.34′ Lt "EE" 15+21.33
Beg CL-6

69.72′ Lt "SR" 210+54.01
END END ANCHOR Assy (TYPE SFT-M)
Beg MGS
69.49′ Lt "SR" 210+41.39
Beg END ANCHOR Assy (TYPE SFT-M)
2.24′ Rt "EE" 15+20.09
END CL-6
FENCE (TYPE CL-6)
22.54′ Rt "EE" 15+15.61
Beg CL-6
17′ Rt "EE" 15+13.73
Beg C&G
CONFORM
15.27′ Rt "EE" 15+05.91
CONFORM
15.11′ Rt "EE" 14+71.41
CONFORM
67.22′ Rt "EE" 14+67.72
CONFORM

10.03′ Rt "EE" 18+26.24 EC
104.36′ Lt "EE" 17+52.10
CONFORM
112.19′ Lt "EE" 17+23.79
CONFORM

7.46′ Rt "EE" 18+23.82 BC
8.40′ Lt "EE" 17+97.31
6.60′ Rt "EE" 17+96.84 EC
9.02′ Rt "EE" 17+94.26 BC
46.48′ Lt "EE" 17+34.83
32.34′ Lt "EE" 17+49.60 EC
30.70′ Lt "EE" 17+41.49
17.57′ Lt "EE" 17+30.11 BC
N76° 31′ 39"E
1300
11.36′ Rt "EE" 17+20.20
11.89′ Rt "EE" 17+22.13
Beg C&G CONFORM
13.33′ Rt "EE" 17+27.44
Beg Ret WALL
18.64′ Rt "EE" 17+21.30
Beg SW
CONFORM
17.08′ Lt "EE" 17+41.12
34.44′ Lt "EE" 17+36.34
81.39′ Rt "EE" 16+70.63
CONFORM
88.15′ Rt "EE" 16+98.86
CONFORM
38.60′ Rt "EE" 17+51.47 EC

63.90′ Lt "EE" 18+01.84
CONFORM
45.84′ Lt "EE" 18+01.72
CONFORM
31.84′ Lt "EE" 18+01.58
END C&G AND SW
CONFORM
Ret WALL
(SEE ARCHITECTURAL PLAN)
26.12′ Lt "EE" 18+23.67
END Ret WALL
7.54′ Lt "EE" 18+24.30
7.19′ Lt "EE" 18+35.29
7.80′ Rt "EE" 18+34.82 EC
10.22′ Rt "EE" 18+32.24 BC
9.92′ Rt "EE" 17+91.25
8.73′ Rt "EE" 17+85.38 EC
27.50′ Rt "EE" 17+91.25
20.74′ Rt "EE" 17+60.41 PRC
21.66′ Rt "EE" 17+57.75 BC
27.50′ Rt "EE" 17+58.81
41′ Rt "EE" 17+52.23 BC
Beg CURB
CONFORM

12.18′ Rt "EE" 14+28.52 EC
12.68′ Rt "EE" 14+29.33 BC
1.24′ Rt "EE" 14+56.79

N01° 52′ 44"E 408.26′

CURVE TABLE						
No.	L	R	T	D	NORTHING	EASTING
1	559.18′	7000′	279.74′	4°34′36"	1928730.0325	6346763.8025

CURVE TABLE						
No.	L	R	T	D	NORTHING	EASTING
22	2.99′	2.50′	1.70′	68°34′02"	1928699.1387	6353908.1957
23	28.81′	30′	15.62′	55°00′05"	1928686.2656	6353938.0375
24	3.93′	2.50′	2.50′	90°00′00"	1928719.8887	6353940.1688
25	3.93′	2.50′	2.50′	89°59′05"	1928726.3507	6353971.5095
26	3.93′	2.50′	2.50′	89°59′05"	1928727.5623	6353977.3859

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

LAYOUT

SCALE: 1" = 20′

L-2

LAST REVISION — DATE PLOTTED => Apr 29 2025 — TIME PLOTTED => 10:59 am
02-21-25

BORDER LAST REVISED 7/2/2010 | USERNAME => ahernandez | DGN FILE => ea_L-02.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	8	247

REGISTERED CIVIL ENGINEER — DATE 2-21-25

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — J.S. BHANDAL — No. 77430 — Exp. 6-30-25 — CIVIL — STATE OF CALIFORNIA

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.

BKF ENGINEERS
7901 STONERIDGE DRIVE, SUITE 360
PLEASANTON, CA 94588

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

No.	L	R	T	D	NORTHING	EASTING
27	3.93′	2.50′	2.50′	89°59′05"	1928737.6592	6354026.3559
28	3.93′	2.50′	2.50′	89°59′05"	1928738.8708	6354032.2322
29	3.93′	2.50′	2.50′	90°00′00"	1928747.1502	6354072.3876
30	24.67′	25′	13.45′	56°32′04"	1928726.7119	6354109.4420
31	30.63′	64′	15.61′	27°25′01"	1928699.0841	6354081.9156
32	27.46′	64.24′	13.94′	24°29′02"	1928698.9305	6354081.7087
33	44.82′	85′	22.94′	30°12′03"	1928668.4377	6354121.4573
34	17.05′	85′	8.55′	11°29′02"	1928668.4377	6354121.4573
35	10.88′	10′	6.05′	62°19′04"	1928733.3569	6354159.0138
36	27.05′	20′	16.05′	77°29′00"	1928730.0629	6354196.9097
37	62.26′	428′	31.18′	8°20′03"	1929171.0735	6354118.0831

S A N T A R O S A

ILLINOIS Ave

NORDYKE Ave

ELLIOTT Ave

R/W

MATCH LINE (L-2)

9.24′ Rt "EE" 18+79.79 BC
11.81′ Rt "EE" 18+82.21 EC
5.76′ Lt "EE" 18+80.27
12′ Rt "EE" 18+88.21 BC
9.59′ Rt "EE" 18+90.79 EC
5.41′ Lt "EE" 18+91.26

4.26′ Lt "EE" 19+27.25
4.59′ Lt "EE" 19+32.76
Beg SW
7.25′ Lt "EE" 19+37.25
Beg ABUTMENT 11
7.91′ Rt "EE" 19+32.36
7.25′ Rt "EE" 19+37.25
Beg ABUTMENT 11
7.25′ Rt "EE" 19+59.25
END ABUTMENT 11
Beg EAST APPROACH WALLS

7.25′ Rt "EE" 19+90.24 BC
EAST APPROACH WALLS
(SEE Str PLAN)
7.25′ Rt "EE" 20+11.13
Beg Conc SURFACE TEXTURE B
Conc SURFACE TEXTURE B
(SEE ARCHITECTURAL PLAN)

47.98′ Lt "EE" 20+90.47
7.25′ Rt "EE" 21+28.45 EC
END Conc SURFACE TEXTURE B
0′ Lt "EE" 21+30.75
END EAST APPROACH WALLS
19.33′ Lt "EE" 21+45.63 PCC
20.68′ Lt "EE" 21+51.68
COLLAPSIBLE BOLLARD
34.83′ Lt "EE" 21+62.72 BC
31.51′ Lt "EE" 21+70.12 PRC
℄ BIKE RAMP No. 1

23.57′ Rt "EE" 20+42.26 PRC
S/C
C&G (COSR)
47.93′ Lt "EE" 21+82.20
28.53′ Lt "EE" 21+76.70 EC
BOLLARDS (SEE ARCHITECTURAL PLAN)
SEE Sht C-6
16.91′ Lt "EE" 21+58.37 EC
END SEAT WALL
15.68′ Lt "EE" 21+59.83 PCC
3.45′ Lt "EE" 21+92.30
"EE" 22+00 END
10.43′ Rt "EE" 21+80.32
SEAT WALL (SEE ARCHITECTURAL PLAN)
1.66′ Rt "EE" 21+68.79 PCC
4.73′ Rt "EE" 21+68.93 BC
Beg SEAT WALL
10.53′ Rt "EE" 21+67.38 EC
END SEAT WALL
15.35′ Rt "EE" 21+63.57 BC/EC
SEAT WALL (SEE ARCHITECTURAL PLAN)
18.68′ Rt "EE" 21+43.60 BC
Beg SEAT WALL
BOLLARDS (SEE ARCHITECTURAL PLAN)
18.29′ Rt "EE" 21+42.66 EC
17.49′ Rt "EE" 21+32.38 PCC
156.69′ Rt "EE" 21+42.52

Ret WALL
(SEE ARCHITECTURAL PLAN)
N76° 31′ 39"E "EE" LINE
1300′

10.73′ Rt "EE" 19+26.77 BC
S/C
CURB (COSR)
13.31′ Rt "EE" 19+29.19 EC
13.83′ Rt "EE" 19+61.35 BC
14.33′ Rt "EE" 19+61.34 BC
9′ Rt "EE" 19+66.73 BC
26.21′ Rt "EE" 19+81.83 PCC
19.85′ Rt "EE" 20+03.26 PRC
26.73′ Rt "EE" 20+03.73 PCC
55.07′ Rt "EE" 19+91.16 PCC
37.15′ Rt "EE" 20+17.18 PCC
82.06′ Rt "EE" 19+87.39 EC
END CURB
CONFORM
47.14′ Rt "EE" 20+19.92 EC
126.04′ Rt "EE" 19+97.51

TCE
1′ TYP
78′
20′
8′
27.2′
32.2′
23.4′

SEE Sht C-9
35.57′ Rt "EE" 21+09.81 PCC
26.27′ Rt "EE" 20+94.83EC
END SEAT WALL
24.61′ Rt "EE" 20+90.10 PRC
SEAT WALL (SEE ARCHITECTURAL PLAN)
36.47′ Rt "EE" 20+47.55 PRC
25.15′ Rt "EE" 20+37.07 BC
Beg SEAT WALL
131.15′ Rt "EE" 20+38.36
50.97′ Rt "EE" 20+27.14 BC
126.30′ Rt "EE" 20+05.75

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

No.	L	R	T	D	NORTHING	EASTING
38	37.32′	48′	19.66′	44°33′00"	1928810.6640	6354238.5197
39	15.32′	15′	8.40′	58°30′00"	1928806.2765	6354289.2659
40	19.89′	30′	10.32′	37°58′05"	1928800.7006	6354275.3408
41	15.32′	15′	8.40′	58°30′00"	1928813.6653	6354282.8851
42	71.56′	20′	-	205°00′05"	1928809.2631	6354285.2560
43	29.23′	10′	91.19′	167°29′02"	1928812.9227	6354291.4436
44	5.80′	5′	3.28′	66°27′00"	1928808.4824	6354293.7422
45	15.60′	15′	8.59′	59°36′02"	1928807.8162	6354283.7644
46	5.80′	5′	3.28′	66°27′00"	1928816.7598	6354288.2379
47	7.43′	9′	3.94′	47°17′00"	1928851.8336	6354301.8635
48	8.35′	10′	4.44′	47°51′03"	1928836.1900	6354291.0804
49	16.13′	6′	25.99′	154°00′00"	1928829.3888	6354268.7952
50	5.15′	6′	2.75′	49°10′05"	1928827.2078	6354293.6650
51	6.22′	6′	3.42′	59°21′04"	1928816.9367	6354260.4141
52	14.14′	5.87′	15.30′	138°01′01"	1928791.3087	6354266.6297
53	10.87′	4.50′	11.86′	138°26′01"	1928790.7498	6354266.9976
54	58.40′	115′	29.84′	29°05′04"	1928655.7762	6354232.6224
55	49.00′	65′	25.73′	43°11′03"	1928707.0641	6354221.4296
56	59.11′	45′	34.70′	75°15′05"	1928798.4458	6354160.1974
57	38.57′	72.46′	19.75′	30°29′03"	1928686.8050	6354123.6793
60	45.25′	40′	25.39′	64°49′00"	1928787.9792	6354238.5197

CURVE TABLE — R/W

LAYOUT

SCALE: 1" = 20′

L-3

LAST REVISION 02-21-25 — DATE PLOTTED => Apr 29 2025 — TIME PLOTTED => 11:00 am

REVISED BY	DATE REVISED
TM	2-21-25

CALCULATED-DESIGNED BY: TRENT MCGOWAN
CHECKED BY: CARMELO CECILIO
CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

BORDER LAST REVISED 7/2/2010
USERNAME => ahernandez
DGN FILE => ea_L-03.dwg
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0751
PROJECT NUMBER & PHASE 04130002131

NOTE:
ELEVATIONS SHOWN ARE BASED UPON NORTH AMERICAN DATUM OF 1988 (NAVD 88) IN FEET.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	9	247

2-21-25
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER
U.S. BHANDAL
No. 77430
Exp. 6-30-25
CIVIL
STATE OF CALIFORNIA

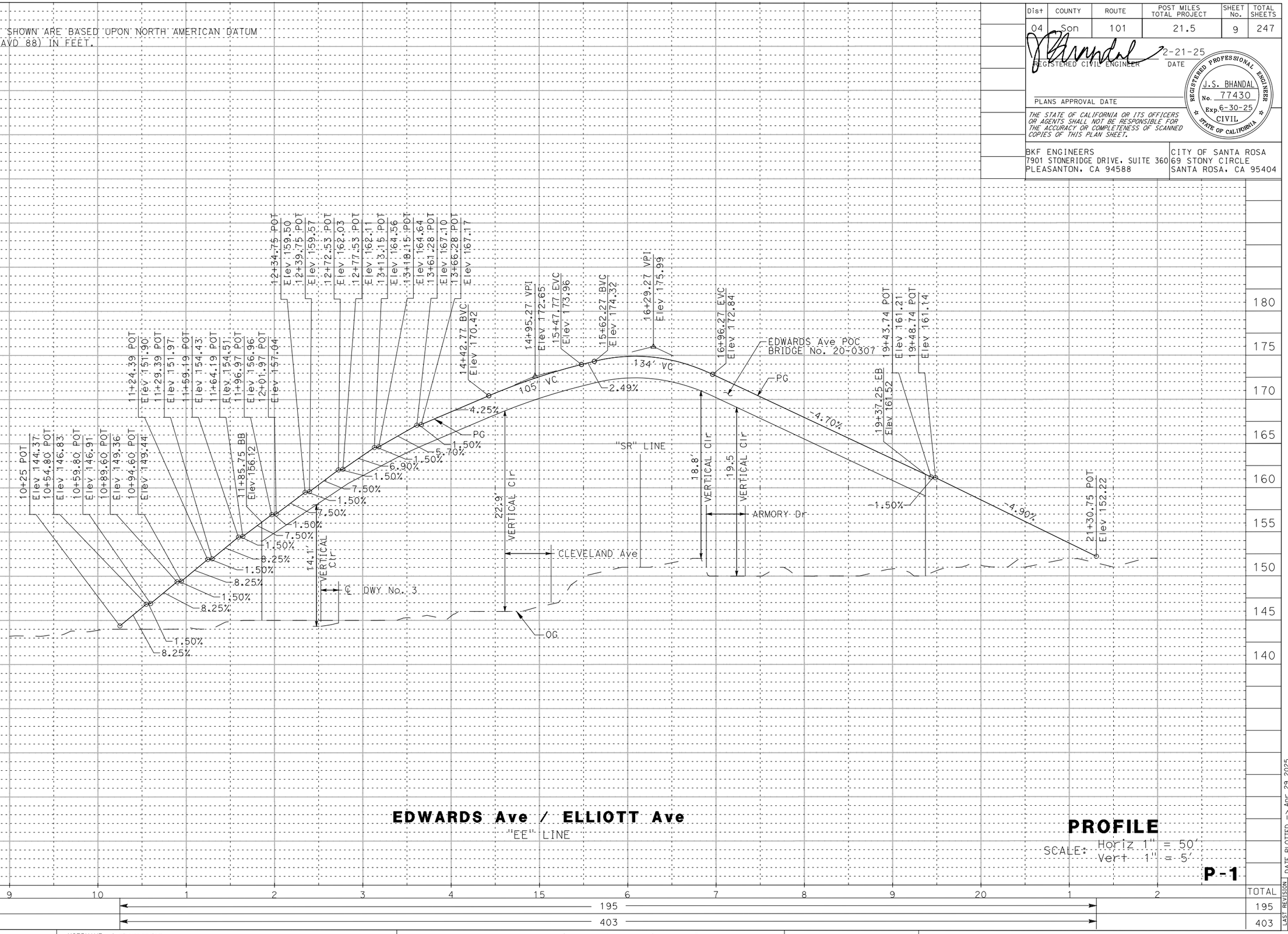
PLANS APPROVAL DATE

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.

BKF ENGINEERS
7901 STONERIDGE DRIVE, SUITE 360
PLEASANTON, CA 94588

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

REVISED BY: TC — DATE REVISED: 2-21-25
CALCULATED-DESIGNED BY: TRAVIS CHAN
CHECKED BY: CARMELO CECILIO
CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans



EDWARDS Ave / ELLIOTT Ave
"EE" LINE

PROFILE
SCALE: Horiz 1" = 50'
Vert 1" = 5'

P-1

STATION	9	10	1	2	3	4	15	6	7	8	9	20	1	2	TOTAL
CY Exc			195												195
CY Emb			403												403

LAST REVISION 02-21-25
DATE PLOTTED => Apr 29 2025
TIME PLOTTED => 11:00 am

BORDER LAST REVISED 7/2/2010
USERNAME => ahernandez
DGN FILE => fa_P-01.dwg
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0751
PROJECT NUMBER & PHASE 04130002131

NOTES:

1. PAVEMENT ELEVATIONS ARE AT 50 FEET INTERVAL UNLESS NOTED OTHERWISE.
2. STATION AND OFFSET ARE REFERRED AT "EE" LINE UNLESS NOTED OTHERWISE.
3. FOR ALIGNMENT DATA, SEE LAYOUTS PLANS.
4. ELEVATIONS SHOWN ARE AT CONFORM LINE, ETW, ES, AND GRADE BREAK LINE UNLESS NOTED OTHERWISE. SEE LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
5. PROPOSED PAVEMENT ELEVATIONS ARE BASED ON EXISTING PAVEMENT ELEVATIONS. CONTRACTOR SHALL VERIFY GRADES PRIOR TO CONSTRUCTION OF INLETS, PAVEMENTS OR OTHER ITEMS CONTROLLED BY THESE GRADES. ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY BEFORE WORK BEGINS.

ABBREVIATIONS:

BW	BACK OF WALK
C&G	CURB AND GUTTER
FC	FACE OF CURB
GB	GRADE BREAK
LG	LIP OF GUTTER
LP	LOW POINT
&	AND

LEGEND:

(XXX.XX)	EXISTING PAVEMENT ELEVATION
XXX.XX	PROPOSED PAVEMENT ELEVATION
	MINOR CONCRETE (SIDEWALK/CURB RAMP/DRIVEWAY)
	AC SURFACE (1' HMA-A DEPTH)
	0.17' COLD PLANE AC PAVEMENT 0.17' HMA-A OVERLAY
	PAVEMENT TREATMENT TYPE 1 (SEE ARCHITECTURAL PLANS)
	PAVEMENT TREATMENT TYPE 2 (SEE ARCHITECTURAL PLANS)
	PAVEMENT TREATMENT TYPE 3 (SEE CONSTRUCTION DETAILS)
	GRADE BREAK

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	10	247

REGISTERED CIVIL ENGINEER — DATE: 2-21-25

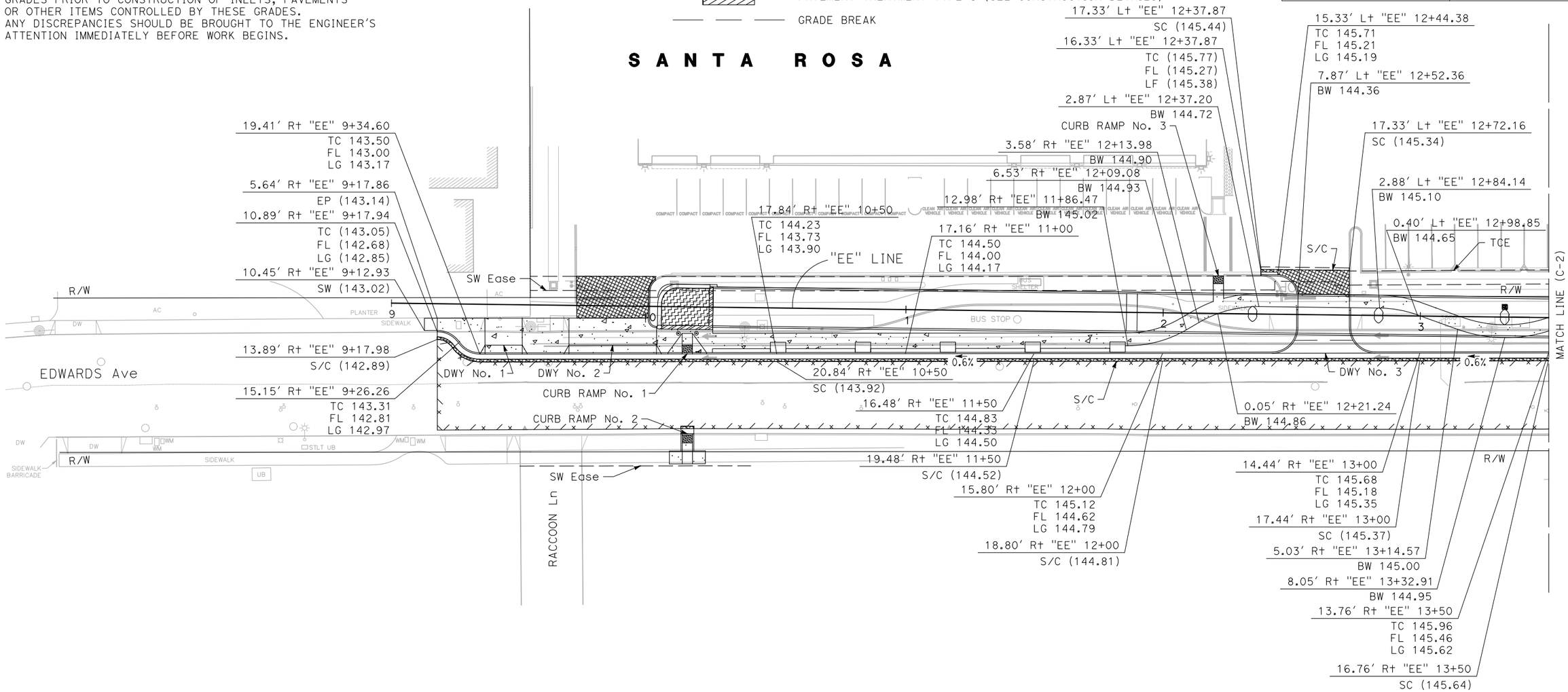
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — J.S. BHANDAL — No. 77430 — Exp. 6-30-25 — CIVIL — STATE OF CALIFORNIA

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.

BKF ENGINEERS
7901 STONERIDGE DRIVE, SUITE 360
PLEASANTON, CA 94588

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404



CONSTRUCTION DETAILS
PAVEMENT ELEVATION PLAN
SCALE: 1" = 20'

APPROVED FOR PAVEMENT ELEVATION WORK ONLY

C-1

TM	2-21-25	CALCULATED-DESIGNED BY	TRENT MCGOWAN
		CHECKED BY	CARMELO CECILIO
REVISED BY	DATE REVISED		

CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 02-21-25 | DATE PLOTTED => Apr 29 2025 | TIME PLOTTED => 11:00 am

BORDER LAST REVISED 7/2/2010 | USERNAME => ahernandez | DGN FILE => ga_C-01.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	11	247

REGISTERED CIVIL ENGINEER — DATE 2-21-25

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — J.S. BHANDAL — No. 77430 — Exp. 6-30-25 — CIVIL — STATE OF CALIFORNIA

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.

BKF ENGINEERS
7901 STONERIDGE DRIVE, SUITE 360
PLEASANTON, CA 94588

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

REVISED BY	DATE REVISED
TM	2-21-25

CALCULATED-DESIGNED BY: TRENT MCGOWAN
CHECKED BY: CARMELO CECILIO

CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

SANTA ROSA

CLEVELAND Ave

STATE R/W

SB

NB

ARMORY Dr

ELLIOTT Ave

EDWARDS Ave

EDWARDS Ave POC
BRIDGE No. 20-0307

"EE" LINE

"SR" LINE

ROUTE 101

MATCH LINE (C-1)

MATCH LINE (C-3)

SW Ease

TCE

CURB RAMP No. 4

CURB RAMP No. 5

FREEWAY SIGN

PLATFORM

AHEAD

S/C

EP

SC

BW

FL

TC

LG

CURB RAMP No. 4
14.44′ Lt "EE" 14+52.03
BW 146.47
6.99′ Lt "EE" 14+42.78
BW 146.40
0.11′ Rt "EE" 14+26.66
BW 146.31
9.44′ Rt "EE" 14+18.54
BW 146.08
1.98′ Rt "EE" 14+05.26
BW 145.91
4.79′ Rt "EE" 13+51.21
BW 145.12
0.27′ Rt "EE" 13+63.73
BW 145.25

26.40′ Lt "EE" 14+54.77
EP (146.53)
23.19′ Lt "EE" 14+68.87
TC (146.33)
FL (145.83)
LG (146.00)
20.74′ Lt "EE" 14+79.59
S/C (146.21)

18.73′ Lt "EE" 15+13.42
S/C (146.47)
17.00′ Lt "EE" 15+21.24
TC (146.60)
FL (146.12)
LG (146.29)

17′ Rt "EE" 15+13.73
TC (146.47)
FL (145.99)
LG (146.16)
15.27′ Rt "EE" 15+05.91
S/C (146.18)
15.11′ Rt "EE" 14+71.41
S/C (146.11)

12.68′ Rt "EE" 14+29.33
TC 146.19
FL 145.69
LG 145.86
13.08′ Rt "EE" 14+00
TC 146.11
FL 145.61
LG 145.77
16.08′ Rt "EE" 14+00
SC (145.79)
2.91′ Lt "EE" 13+79.42
BW 145.42

31.88′ Lt "EE" 17+96.80
TC 149.61
FL 149.11
LG 149.28
46.48′ Lt "EE" 17+34.83
S/C (149.90)
32.34′ Lt "EE" 17+49.60
TC 149.64
FL 149.14
LG 149.31
17.57′ Lt "EE" 17+30.11
TC 150.07
FL 149.57
LG 149.75

11.10′ Rt "EE" 17+19.23
S/C (149.57)
11.89′ Rt "EE" 17+22.13
TC (149.89)
FL (149.39)
LG (149.55)
17.08′ Rt "EE" 17+41.12
TC 149. 99
FL 149.49
34.44′ Rt "EE" 17+36.34
TC 149.95
FL 149.45
38.60′ Rt "EE" 17+51.47
TC 149.87
FL 149.37
41.00′ Rt "EE" 17+52.23
TC (149.88)
FL (149.38)

45.84′ Lt "EE" 18+01.72
S/C (149.61)
31.84′ Lt "EE" 18+01.58
TC (149.63)
FL (149.13)
LG (149.29)
7.54′ Lt "EE" 18+24.30
TC 150.48
FL 149.98
7.46′ Rt "EE" 18+23.82
TC 150.24
FL 149.74
7.19′ Lt "EE" 18+35.29
TC 150.54
FL 150.04
7.80′ Rt "EE" 18+34.82
TC 150.30
FL 149.80
10.22′ Rt "EE" 18+32.24
TC 150.25
FL 149.75
10.03′ Rt "EE" 18+26.24
TC 150.22
FL 149.72
8.40′ Lt "EE" 17+97.31
TC 150.33
FL 149.83
6.60′ Rt "EE" 17+96.84
TC 150.10
FL 149.60
9.02′ Rt "EE" 17+94.26
TC 150.05
FL 149.55
27.50′ Rt "EE" 17+91.25
S/C (CONFORM)
20.74′ Rt "EE" 17+60.41
TC 149.90
FL 149.40
21.66′ Rt "EE" 17+57.75
TC 149.90
FL 149.40
27.50′ Rt "EE" 17+58.61
S/C (CONFORM)
41.43′ Rt "EE" 17+52.73
S/C (CONFORM)

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

CONSTRUCTION DETAILS
PAVEMENT ELEVATION PLAN
SCALE: 1" = 20′

APPROVED FOR PAVEMENT ELEVATION WORK ONLY

C-2

LAST REVISION — DATE PLOTTED => Apr 29 2025
02-21-25 — TIME PLOTTED => 11:01 am

BORDER LAST REVISED 7/2/2010 | USERNAME => ahernandez | DGN FILE => ga_C-02.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	12	247

REGISTERED CIVIL ENGINEER — DATE 2-21-25

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — J.S. BHANDAL — No. 77430 — Exp. 6-30-25 — CIVIL — STATE OF CALIFORNIA

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.

BKF ENGINEERS
7901 STONERIDGE DRIVE, SUITE 360
PLEASANTON, CA 94588

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

REVISED BY	DATE REVISED
TM	2-21-25

TRENT MCGOWAN — CARMELO CECILIO — CALCULATED-DESIGNED BY — CHECKED BY

JAGGI S. BHANDAL — CONSULTANT FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

SANTA ROSA

R/W

ILLINOIS Ave

NORDYKE Ave

ELLIOTT Ave

MATCH LINE (C-2)

"EE" LINE

DWY No. 4

S/C

TCE

9.24′ R+ "EE" 18+79.79
TC 150.56
FL 150.06

5.76′ L+ "EE" 18+80.27
TC 150.80
FL 150.30

11.81′ R+ "EE" 18+82.21
TC 150.54
FL 150.04

5.41′ L+ "EE" 18+91.26
TC 150.86
FL 150.36

12′ R+ "EE" 18+88.21
TC 150.57
FL 150.07

9.59′ R+ "EE" 18+90.79
TC 150.63
FL 150.13

4.59′ L+ "EE" 19+32.76
BW 151.15

9′ R+ "EE" 19+66.73
BW 151.11

4.26′ L+ "EE" 19+27.25
TC 151.07
FL 150.57

10.73′ R+ "EE" 19+26.77
TC 150.83
FL 150.33

13.31′ R+ "EE" 19+29.19
TC 150.81
FL 150.31

14.33′ R+ "EE" 19+61.34
TC 151.01
FL 150.51

26.21′ R+ "EE" 19+81.83
TC 151.10
FL 150.60

61.81′ R+ "EE" 19+91.31
TC 151.25
FL 150.75

81.76′ R+ "EE" 19+86.43
S/C (CONFORM)

82.06′ R+ "EE" 19+87.39
TC (151.08)
FL (150.58)

34.83′ L+ "EE" 21+62.72
TC 151.36
FL 150.86
LG 151.03

29.41′ L+ "EE" 21+39.45
BW 151.40

29.48′ L+ "EE" 21+17.78
BW 151.34

34.98′ L+ "EE" 21+17.28
TC 151.23
FL 150.73
LG 150.89

28.53′ L+ "EE" 21+76.70
TC 150.94
FL 150.44
LG 150.61

47.98′ L+ "EE" 20+90.47
S/C (151.02)

29.38′ L+ "EE" 20+90.40
TC (150.97)
FL (150.60)
LG (150.77)

47.93′ L+ "EE" 21+82.20
S/C (151.34)

28.46′ L+ "EE" 21+82.16
TC (150.88)
FL (150.50)
LG (150.55)

25.15′ R+ "EE" 20+37.07
BW 151.59

3.45′ L+ "EE" 21+92.30

10.43′ R+ "EE" 21+80.32

22.02′ R+ "EE" 20+66.02
151.84

27.60′ R+ "EE" 21+09.12
BW 151.99

26.05′ R+ "EE" 20+21.11
BW 151.46

19.85′ R+ "EE" 20+03.26
BW 151.34

37.15′ R+ "EE" 20+17.18
BW 151.12

50.97′ R+ "EE" 20+27.14
BW 151.14

47.14′ R+ "EE" 20+19.92
BW 151.04

103.56′ R+ "EE" 20+12.21
BW 150.41

131.15′ R+ "EE" 20+38.36

126.30′ R+ "EE" 20+05.75
BW (150.10)

126.04′ R+ "EE" 19+97.51
BW (150.25)

156.69′ R+ "EE" 21+42.52

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

CONSTRUCTION DETAILS
PAVEMENT ELEVATION PLAN
SCALE: 1" = 20′

C-3

APPROVED FOR PAVEMENT ELEVATION WORK ONLY

LAST REVISION — DATE PLOTTED => Apr 29 2025 — TIME PLOTTED => 11:01 am — 02-21-25

BORDER LAST REVISED 7/2/2010 | USERNAME => ahernandez | DGN FILE => ga_C-03.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	13	247

REGISTERED CIVIL ENGINEER — DATE 2-21-25

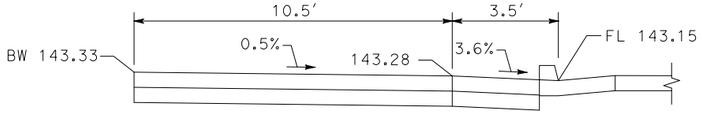
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — J.S. BHANDAL — No. 77430 — Exp. 6-30-25 — CIVIL — STATE OF CALIFORNIA

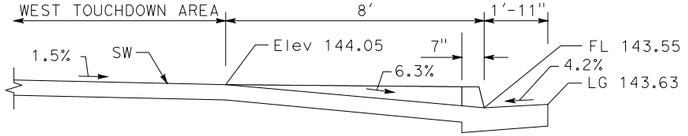
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BKF ENGINEERS
7901 STONERIDGE DRIVE, SUITE 360
PLEASANTON, CA 94588

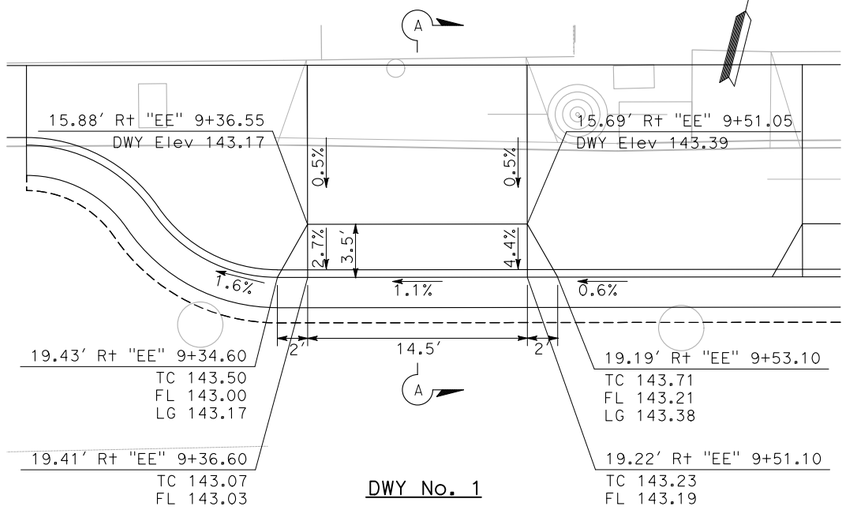
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404



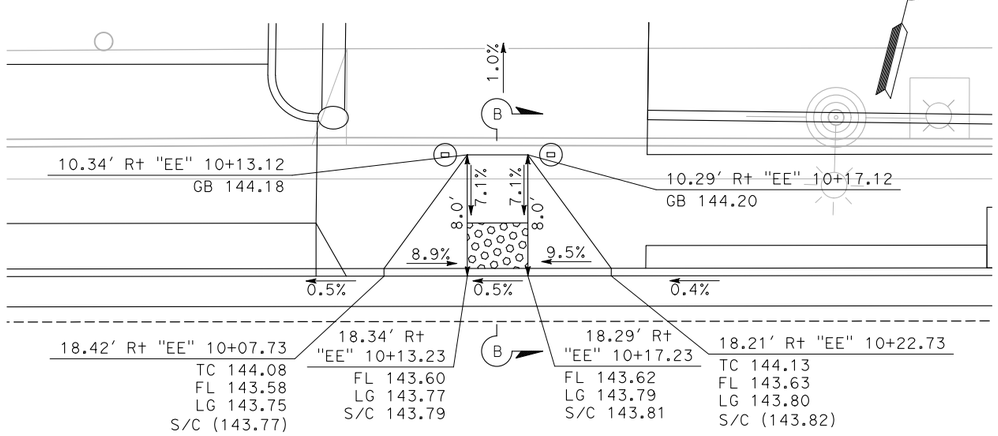
SECTION A-A OF DRIVEWAY No. 1
NO SCALE



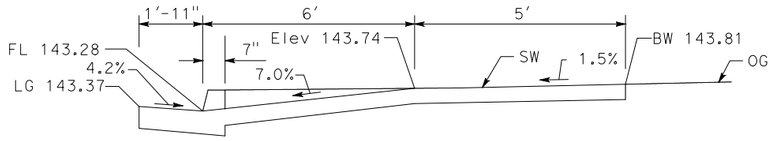
SECTION B-B OF CURB RAMP No. 1
NO SCALE



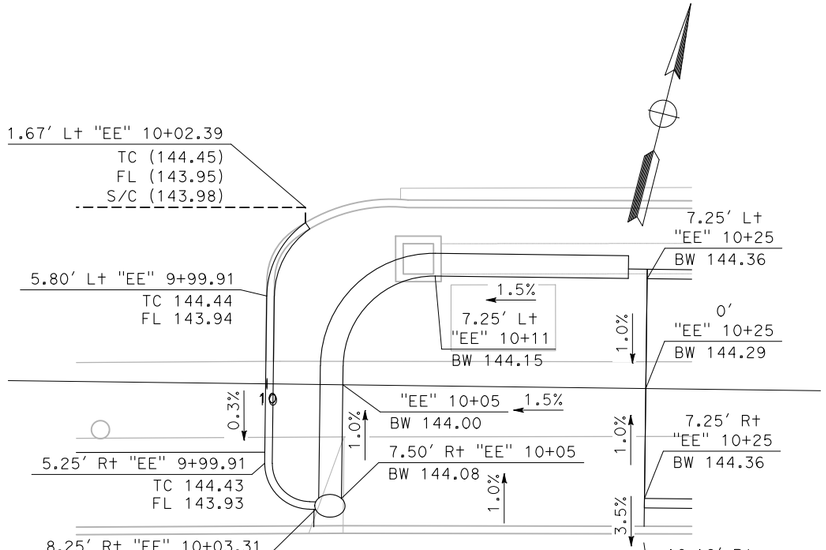
DWY No. 1



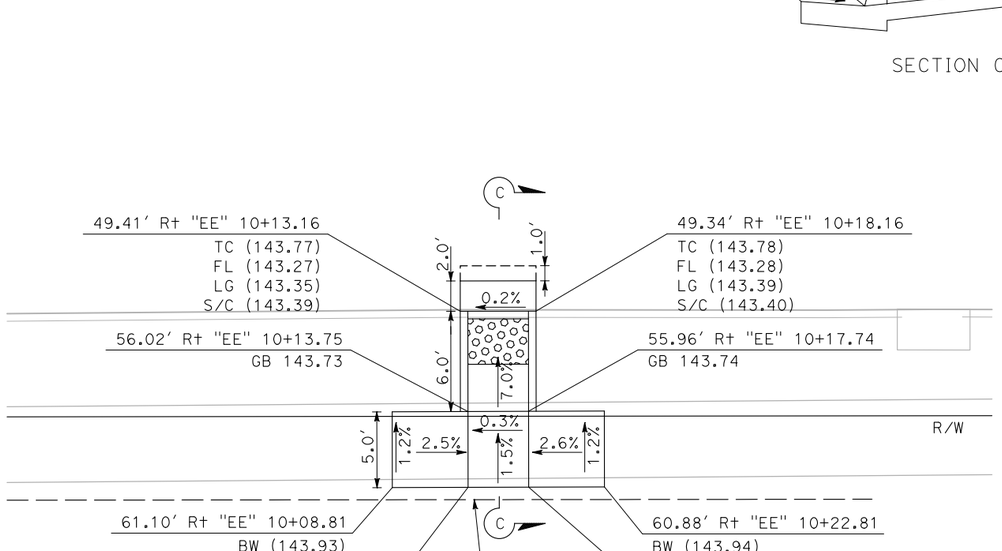
CURB RAMP No. 1
CASE A



SECTION C-C OF CURB RAMP No. 2
NO SCALE



DETAIL No. 1



CURB RAMP No. 2
CASE B

CONSTRUCTION DETAILS

SCALE: 1" = 5'

C-4

REVISED BY	DATE REVISED
TM	2-21-25

TRENT MCGOWAN — CARMELO CECILIO — CALCULATED-DESIGNED BY — CHECKED BY

JAGGI S. BHANDAL — CONSULTANT FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 02-21-25 — DATE PLOTTED => Apr 29 2025 — TIME PLOTTED => 11:02 am

BORDER LAST REVISED 7/2/2010 — USERNAME => ahernandez — DGN FILE => ga_C-04.dwg — RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 — UNIT 0751 — PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	14	247

REGISTERED CIVIL ENGINEER — DATE: 2-21-25

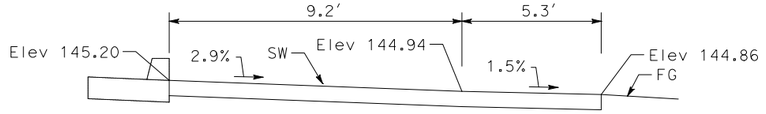
REGISTERED PROFESSIONAL ENGINEER — J.S. BHANDAL — No. 77430 — Exp. 6-30-25 — CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

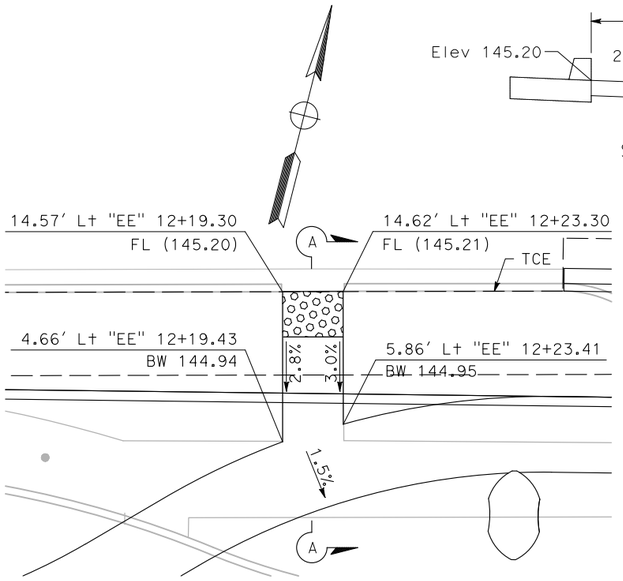
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BKF ENGINEERS
7901 STONERIDGE DRIVE, SUITE 360
PLEASANTON, CA 94588

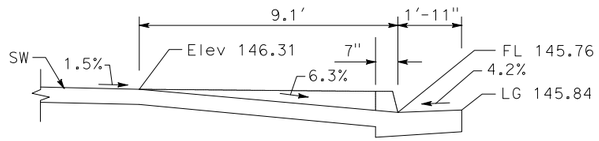
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404



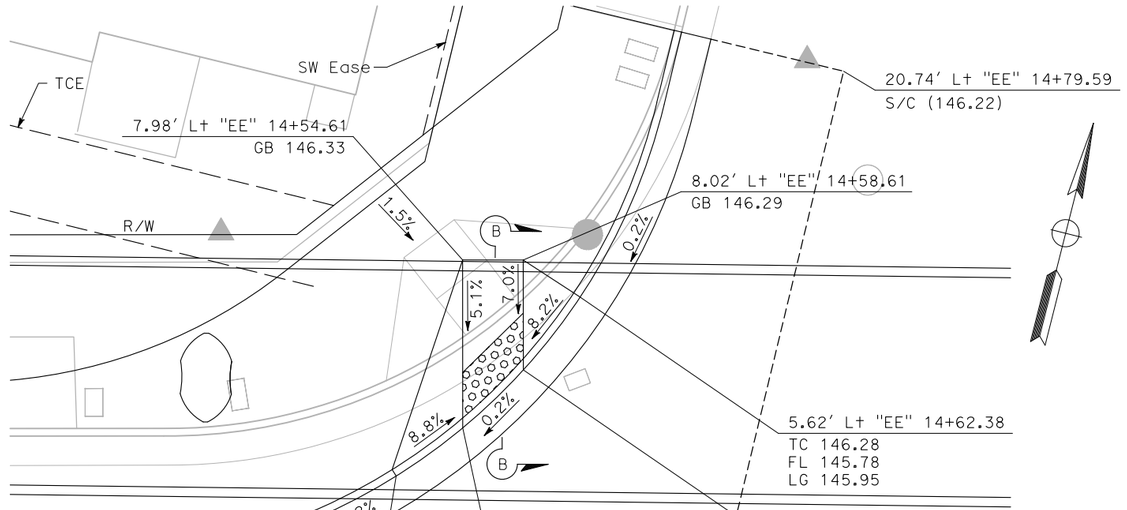
SECTION A-A OF CURB RAMP No. 3
NO SCALE



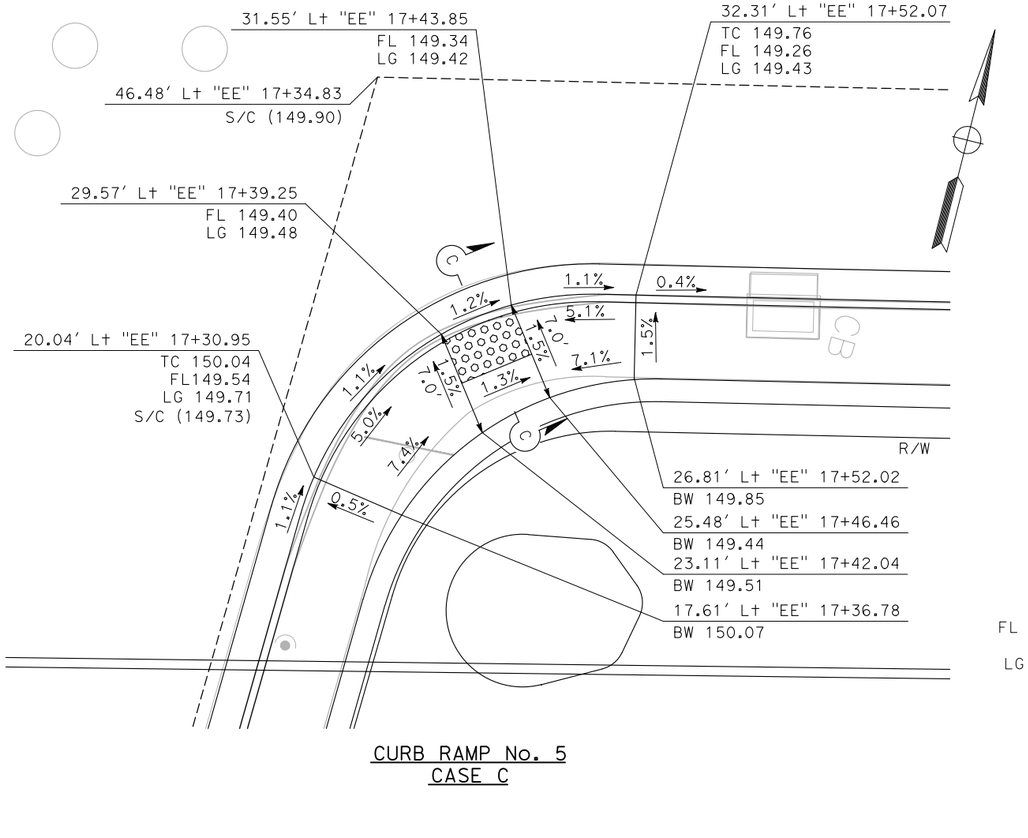
CURB RAMP No. 3



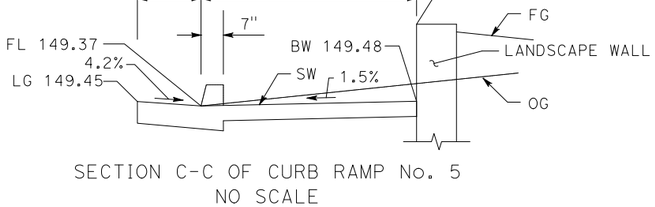
SECTION B-B OF CURB RAMP No. 4
NO SCALE



CURB RAMP No. 4
CASE A



CURB RAMP No. 5
CASE C



SECTION C-C OF CURB RAMP No. 5
NO SCALE

CONSTRUCTION DETAILS

SCALE: 1" = 5′

C-5

CALCULATED-DESIGNED BY: TM
CHECKED BY: CARMELO CECILIO
REVISED BY: TRENT MCGOWAN
DATE REVISED: 2-21-25
CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION 02-21-25 | DATE PLOTTED => Apr 29, 2025 | TIME PLOTTED => 11:02 am

BORDER LAST REVISED 7/2/2010 | USERNAME => ahernandez | DGN FILE => ga_C-05.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	15	247

REGISTERED CIVIL ENGINEER — DATE 2-21-25

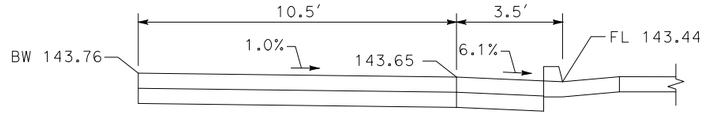
REGISTERED PROFESSIONAL ENGINEER — J.S. BHANDAL — No. 77430 — Exp. 6-30-25 — CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

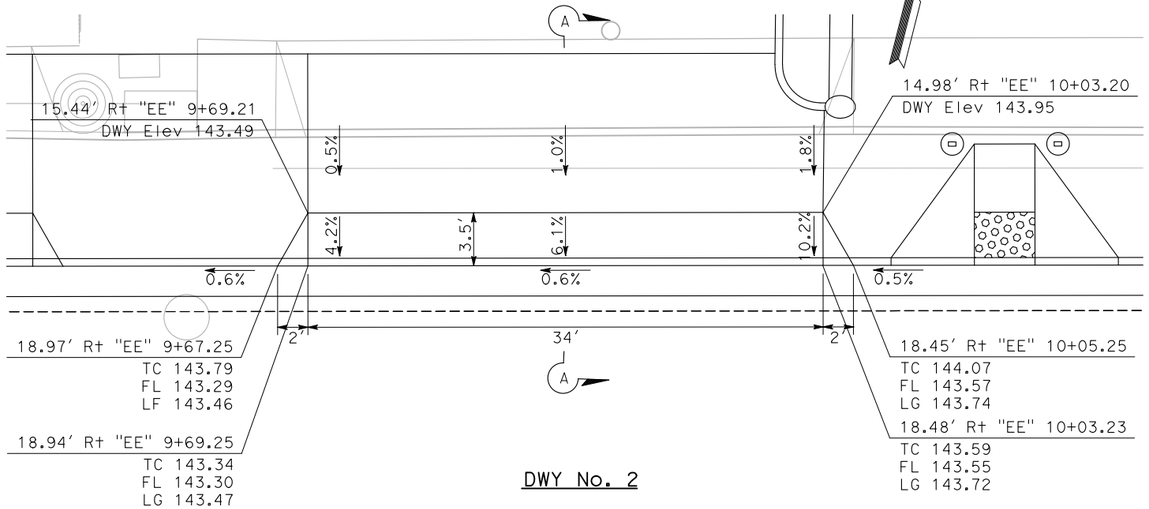
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BKF ENGINEERS
7901 STONERIDGE DRIVE, SUITE 360
PLEASANTON, CA 94588

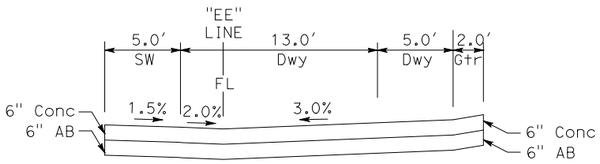
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404



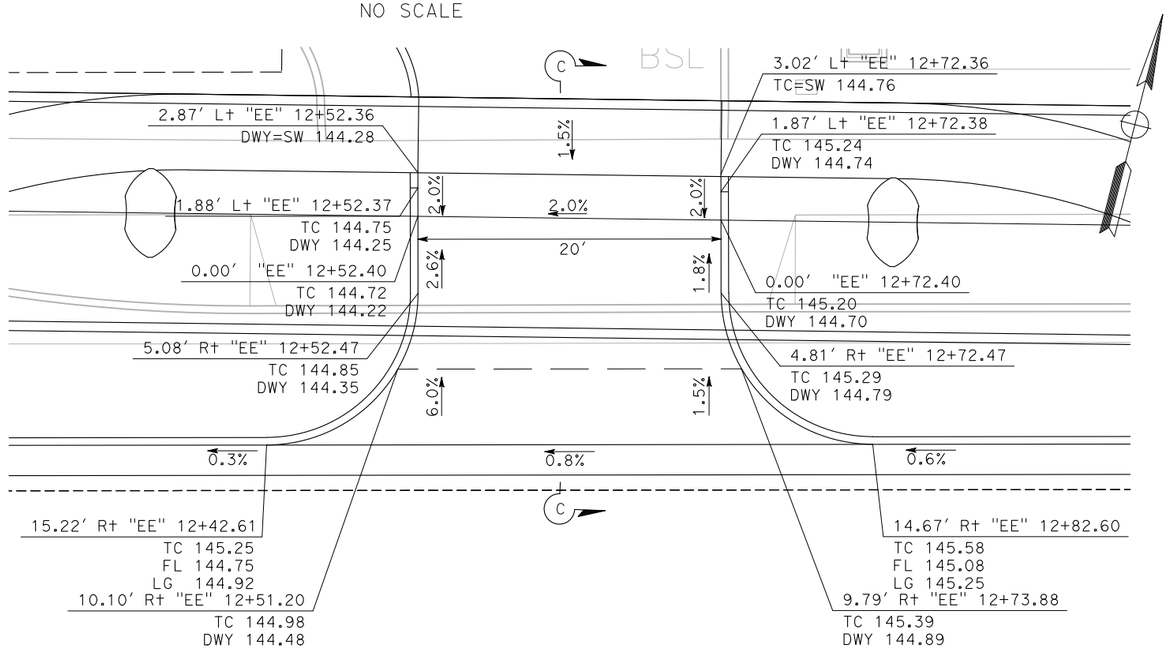
SECTION A-A OF DRIVEWAY No. 2
NO SCALE



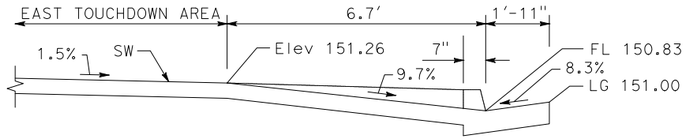
DWY No. 2



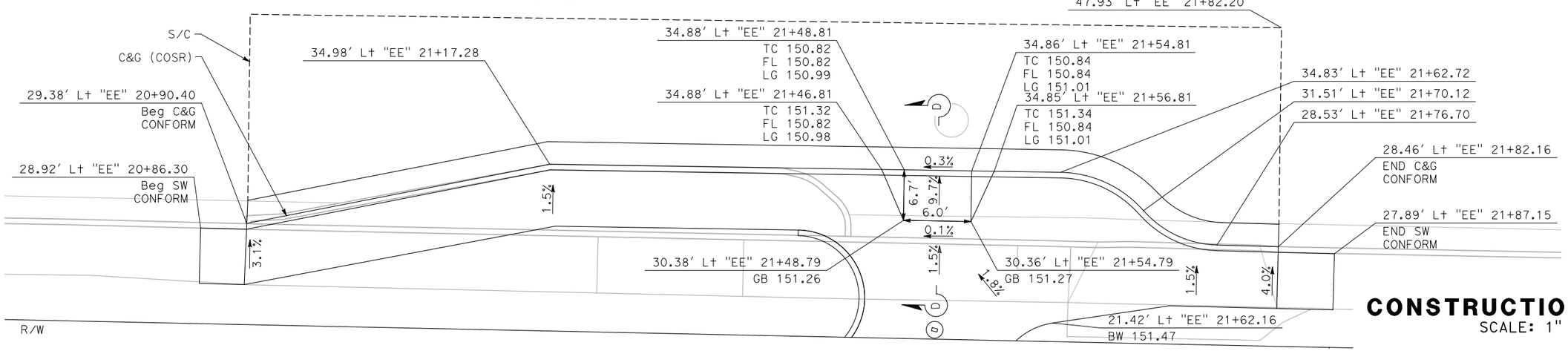
SECTION C-C OF DRIVEWAY No. 3
NO SCALE



DWY No. 3



SECTION D-D OF BIKE RAMP No. 1
NO SCALE



BIKE RAMP No. 1

CONSTRUCTION DETAILS

SCALE: 1" = 5'

C-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL
CALCULATED-DESIGNED BY: TRENT MCGOWAN
CHECKED BY: CARMELO CECILIO
REVISED BY: TM
DATE REVISED: 2-21-25
LAST REVISION: 02-21-25
DATE PLOTTED => Apr 29 2025
TIME PLOTTED => 11:03 am

BORDER LAST REVISED 7/2/2010
USERNAME => ahernandez
DGN FILE => ga_C-06.dwg
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0751
PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	16	247

REGISTERED CIVIL ENGINEER — DATE 2-21-25

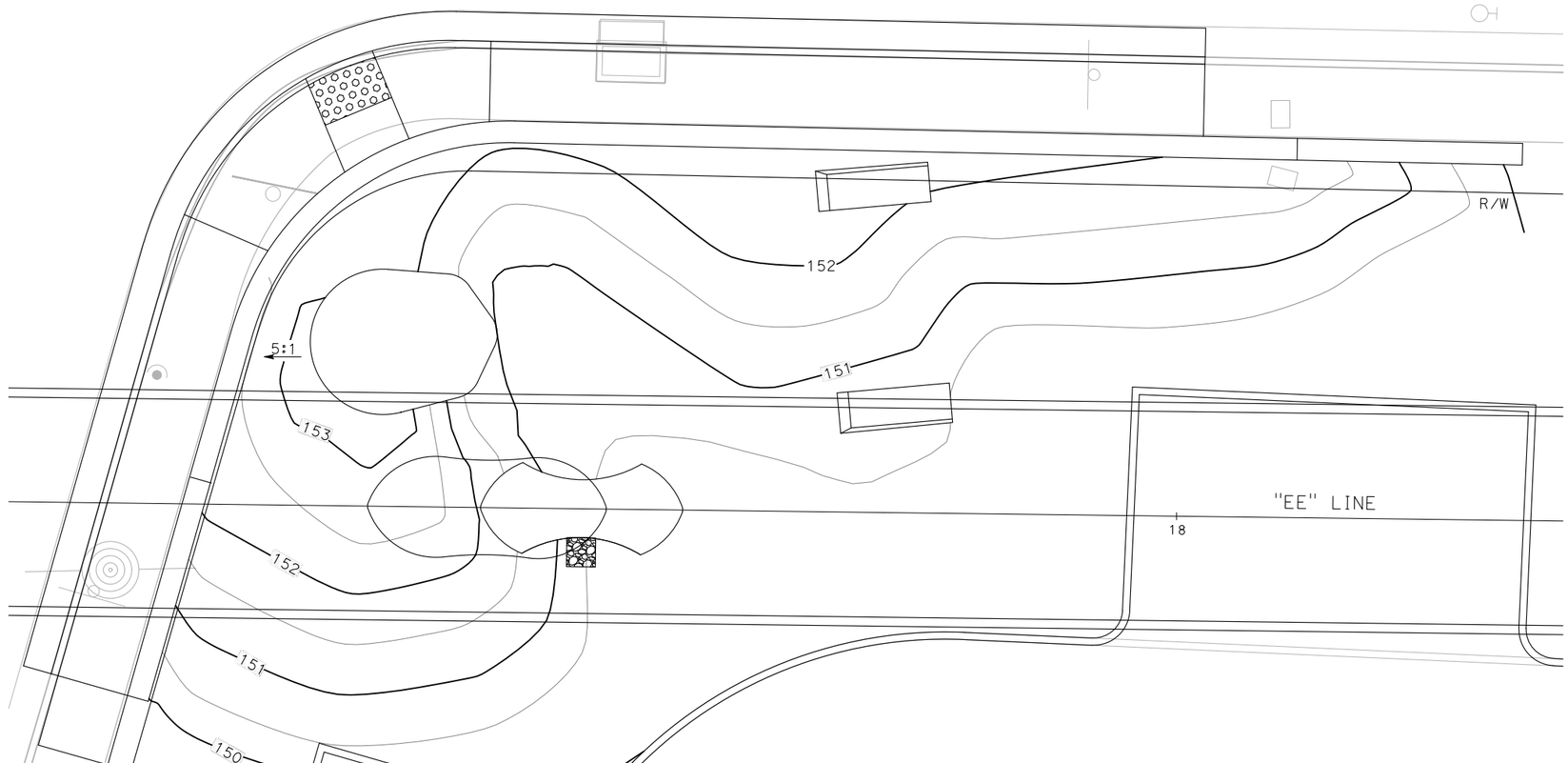
REGISTERED PROFESSIONAL ENGINEER
J.S. BHANDAL
No. 77430
Exp. 6-30-25
CIVIL
STATE OF CALIFORNIA

PLANS APPROVAL DATE

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BKF ENGINEERS
7901 STONERIDGE DRIVE, SUITE 360
PLEASANTON, CA 94588

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404



DETAIL No. 2

CONSTRUCTION DETAILS

SCALE: 1" = 5'

C-7

TM	2-21-25	REVISED BY	DATE REVISED		
TRENT MCGOWAN	CARMELO CECILIO	CALCULATED-DESIGNED BY	CHECKED BY		
CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL					
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION					

LAST REVISION 02-21-25 | DATE PLOTTED => Apr 29 2025 | TIME PLOTTED => 11:03 am

BORDER LAST REVISED 7/2/2010 | USERNAME => ahernandez | DGN FILE => ga_C-07.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	17	247

REGISTERED CIVIL ENGINEER — DATE: 2-21-25

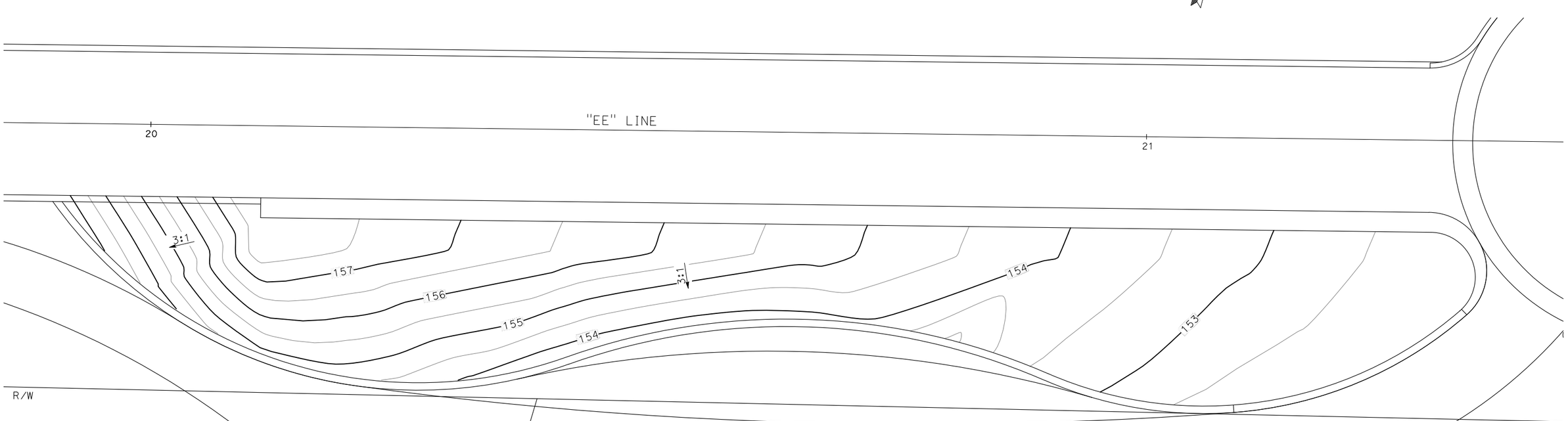
REGISTERED PROFESSIONAL ENGINEER
J.S. BHANDAL
No. 77430
Exp. 6-30-25
CIVIL
STATE OF CALIFORNIA

PLANS APPROVAL DATE

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7901 STONERIDGE DRIVE, SUITE 360
PLEASANTON, CA 94588

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404



DETAIL No. 3

CONSTRUCTION DETAILS

SCALE: 1" = 5'

C-8

REVISED BY	DATE REVISED
TM	2-21-25

CALCULATED-DESIGNED BY: TRENT MCGOWAN
CHECKED BY: CARMELO CECILIO

CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION: 02-21-25
DATE PLOTTED => Apr 29 2025
TIME PLOTTED => 11:04 am

BORDER LAST REVISED 7/2/2010

USERNAME => ahernandez
DGN FILE => ga_C-08.dwg

RELATIVE BORDER SCALE IS IN INCHES: 0 1 2 3

UNIT 0751

PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	18	247

REGISTERED CIVIL ENGINEER — DATE: 2-21-25

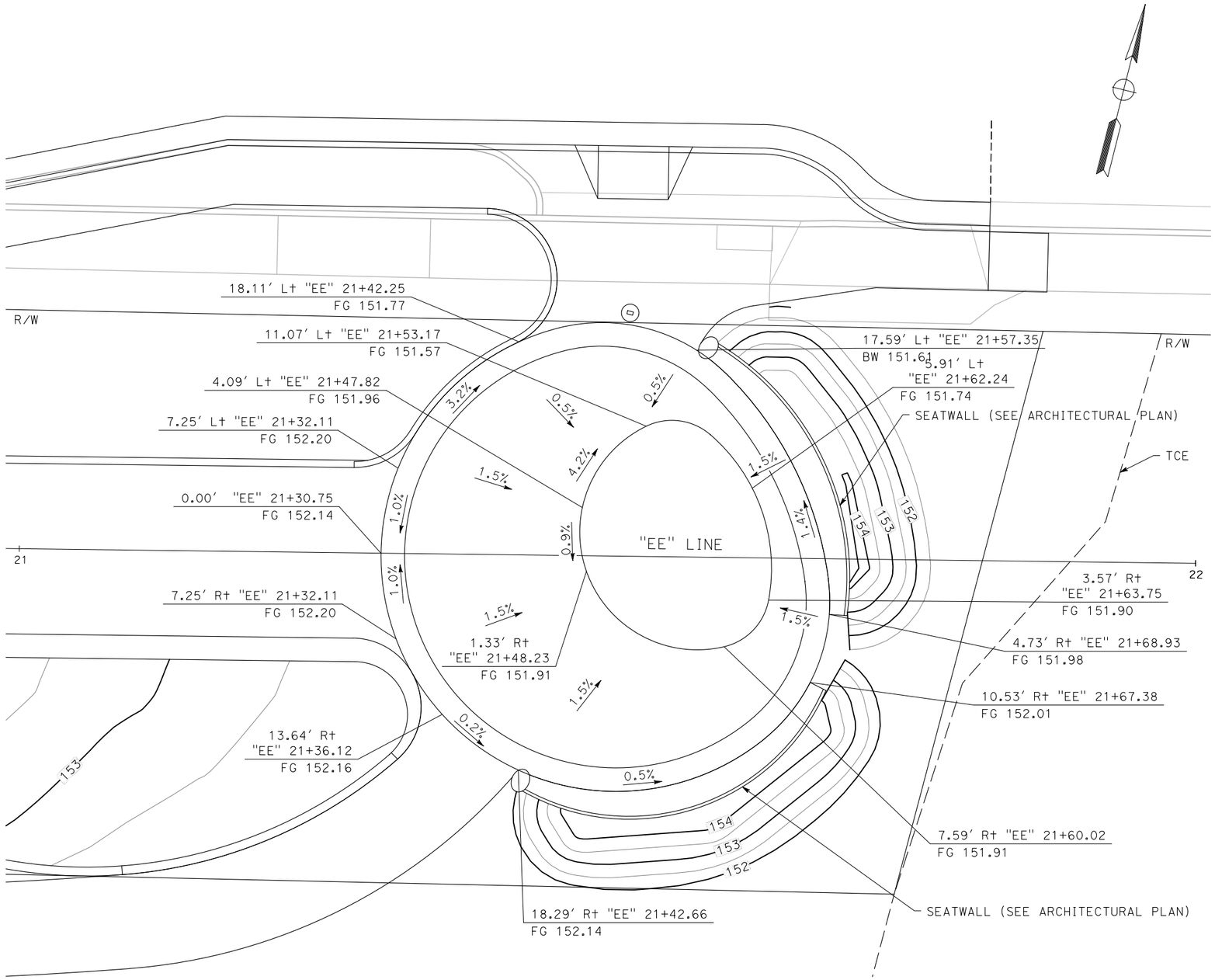
REGISTERED PROFESSIONAL ENGINEER — J.S. BHANDAL — No. 77430 — Exp. 6-30-25 — CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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BKF ENGINEERS
7901 STONERIDGE DRIVE, SUITE 360
PLEASANTON, CA 94588

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404



DETAIL No. 4

CONSTRUCTION DETAILS

SCALE: 1" = 5′

C-9

REVISED BY	DATE REVISED
TM	2-21-25

CALCULATED-DESIGNED BY: TRENT MCGOWAN
CHECKED BY: CARMELO CECILIO

CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION 02-21-25
DATE PLOTTED => Apr 29 2025
TIME PLOTTED => 11:04 am

BORDER LAST REVISED 7/2/2010
USERNAME => ahernandez
DGN FILE => ga_C-09.dwg
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0751
PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	19	247

REGISTERED CIVIL ENGINEER — DATE 2-21-25

REGISTERED PROFESSIONAL ENGINEER — J.S. BHANDAL — No. 77430 — Exp. 6-30-25 — CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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7901 STONERIDGE DRIVE, SUITE 360
PLEASANTON, CA 94588

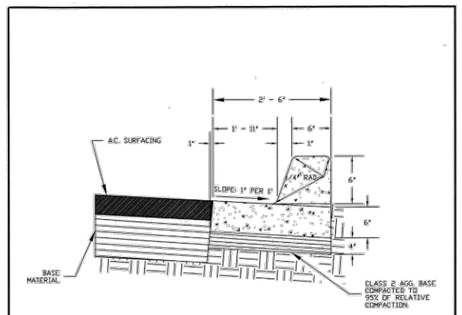
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

REVISED BY	DATE REVISED
TM	2-21-25

CALCULATED-DESIGNED BY: TRENT MCGOWAN
CHECKED BY: CARMELO CECILIO

CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL

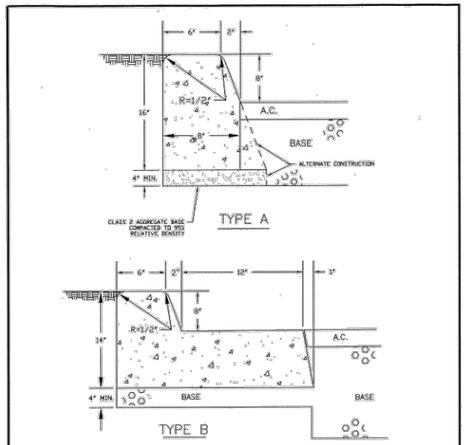
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans



NOTES:
1. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER.
2. SEE CITY STD.–235 FOR LOCATION OF WEAKENED PLANE AND EXPANSION JOINTS.
3. ALL CONCRETE SHALL BE CLASS "A" P.C.C.

CITY OF SANTA ROSA
CURB AND GUTTER
Scale: NONE | Date: JAN 2004
DWN. SCA | APPROVED | FILE NO.
CHK. | STD.– 241

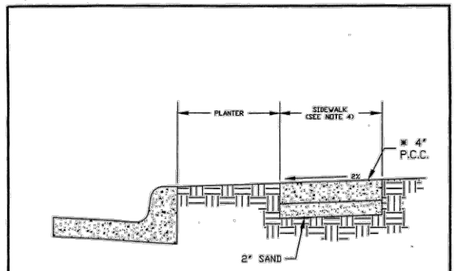
CITY OF SANTA ROSA CURB AND GUTTER



NOTES:
1. TYPE A OR B TO BE USED AT CONTRACTOR'S OPTION UNLESS SPECIFICALLY STATED ON THE PLANS.
2. SEE CITY STD.–235 FOR LOCATION OF WEAKENED PLANES AND EXPANSION JOINTS.
3. THESE DETAILS APPLY TO NEW CONSTRUCTION AND RECONSTRUCTION PROJECTS ONLY. MEDIAN CURB TO BE DETAILED ON PLANS WHERE INSTALLED ON EXISTING PAVEMENT.
4. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER.
5. ALL CONCRETE SHALL BE CLASS "A" P.C.C.
6. WHERE THE MEDIAN ISLAND IS TO BE PAVED, THE MEDIAN AND THE CURBS ARE TO BE POURED AS A UNIT (NO COLD JOINT).

CITY OF SANTA ROSA
STREET MEDIAN CURB
Scale: NONE | Date: JAN 2004
DWN. SCA | APPROVED | FILE NO.
CHK. | STD.– 242

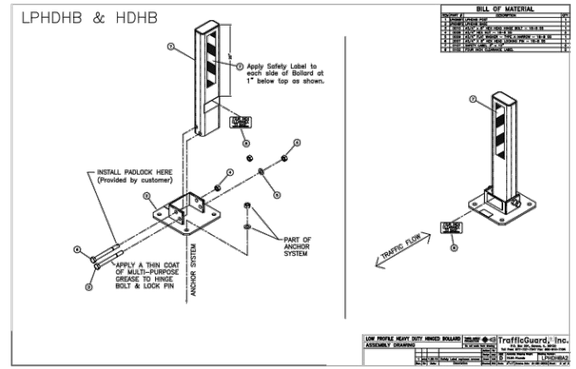
CITY OF SANTA ROSA CURB

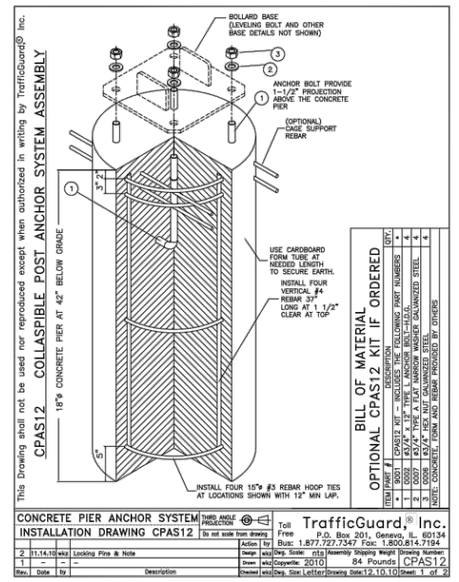


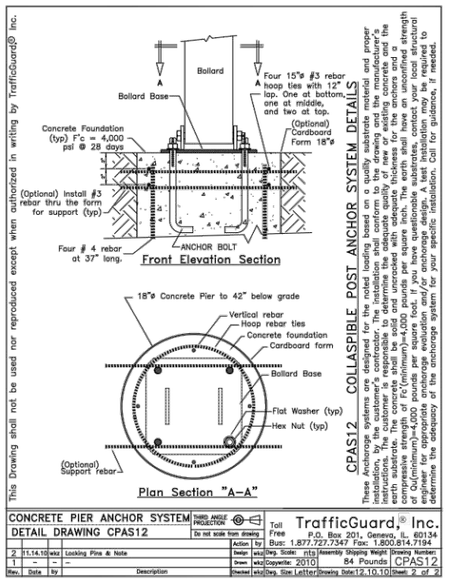
NOTES:
1. JOINTS AND SCORING PER STD.–235.
2. ALL CONCRETE SHALL BE CLASS A P.C.C.
3. * 6" FOR DRIVEWAY AREA.
4. SIDEWALK WIDTH SHALL MATCH EXISTING (UNLESS OTHERWISE CONDITIONED) AND SHALL MEANDER OR WIDEN AT OBSTRUCTIONS TO PROVIDE CLEARANCES AS SHOWN IN CITY STD.– 231.
5. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER.

CITY OF SANTA ROSA
REPLACEMENT OF EXISTING SIDEWALK
Scale: NONE | Date: JAN 2004
DWN. SCA | APPROVED | FILE NO.
CHK. | STD.–237

CITY OF SANTA ROSA SIDEWALK

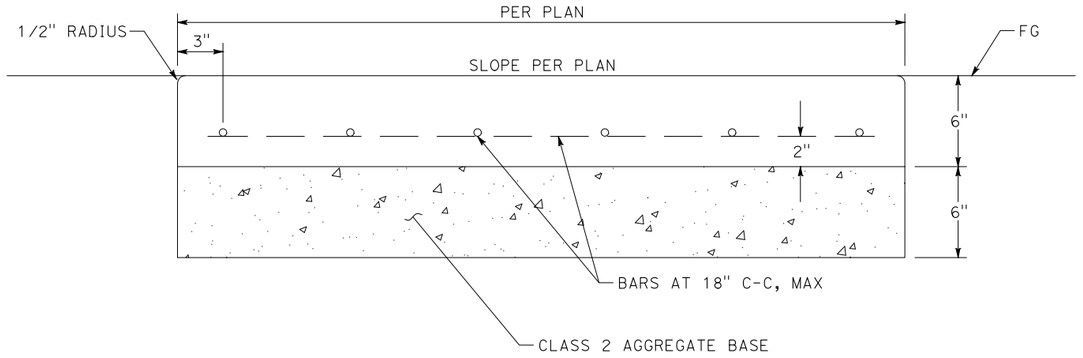






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COLLAPSIBLE BOLLARD



PAVEMENT TREATMENT TYPE 3

NOTES:

1. SIDEWALK SHALL BE CONSTRUCTED WITH PORTLAND CEMENT CONCRETE 6" THICK WITH COMPRESSIVE STRENGTH OF 3,000 psi.
2. PLASTIC CHAIRS SHALL BE USED TO HOLD REINFORCEMENT STEEL AT 2" HIGH.
3. 3/4" REDWOOD EXPANSION JOINT AT INTERVALS OF 20′ (MAX) THROUGHOUT ENTIRE LENGTH OF SIDEWALK AND WHERE NEW WALK MEETS OLD WALK. CONSTRUCTION JOINT SHALL BE PLACED EVERY 5′.
4. 3/4" REDWOOD EXPANSION JOINT WHERE SIDEWALK MEETS CURB, AROUND FIRE HYDRANTS AND UTILITY POLES.

CONSTRUCTION DETAILS
NO SCALE

C-10

LAST REVISION 02-21-25 | DATE PLOTTED => Apr 29, 2025 | TIME PLOTTED => 11:05 am

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	20	247

REGISTERED CIVIL ENGINEER — DATE 2-21-25

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — J.S. BHANDAL — No. 77430 — Exp. 6-30-25 — CIVIL — STATE OF CALIFORNIA

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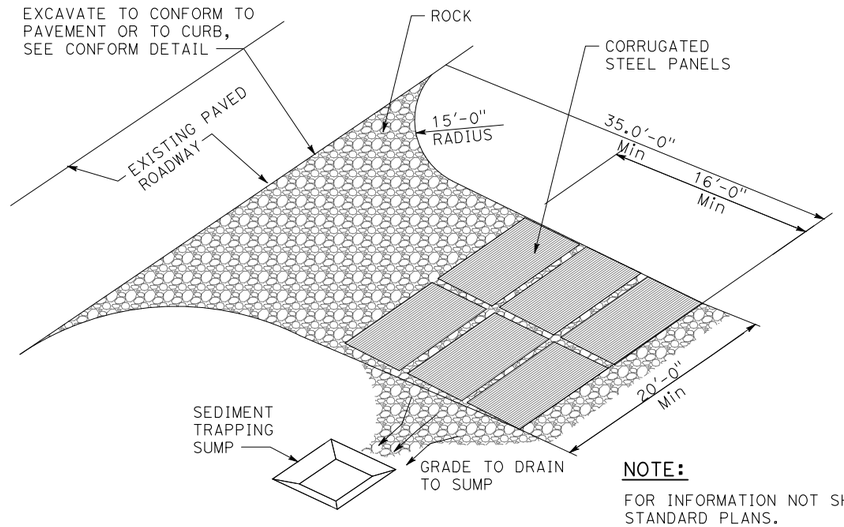
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

NOTE:

BEST MANAGEMENT PRACTICES (BMPs) AND LOCATIONS ARE APPROXIMATE AND AS SHOWN FOR ALL STAGES OF CONSTRUCTION ON THIS PLAN. CONTRACTOR TO VERIFY EXACT BMPs AND LOCATIONS BASED ON FIELD CONDITIONS, STAGE CONSTRUCTION AND SHOW ON TEMPORARY WATER POLLUTION CONTROL PLAN (WPCP).

LEGEND:

- SURFACE FLOW DIRECTION
- TEMPORARY DRAINAGE INLET PROTECTION
- WASH — TEMPORARY CONCRETE WASHOUT FACILITY
- TFR — TEMPORARY FIBER ROLL
- MODIFIED TEMPORARY CONSTRUCTION ENTRANCE (TYPE 2)



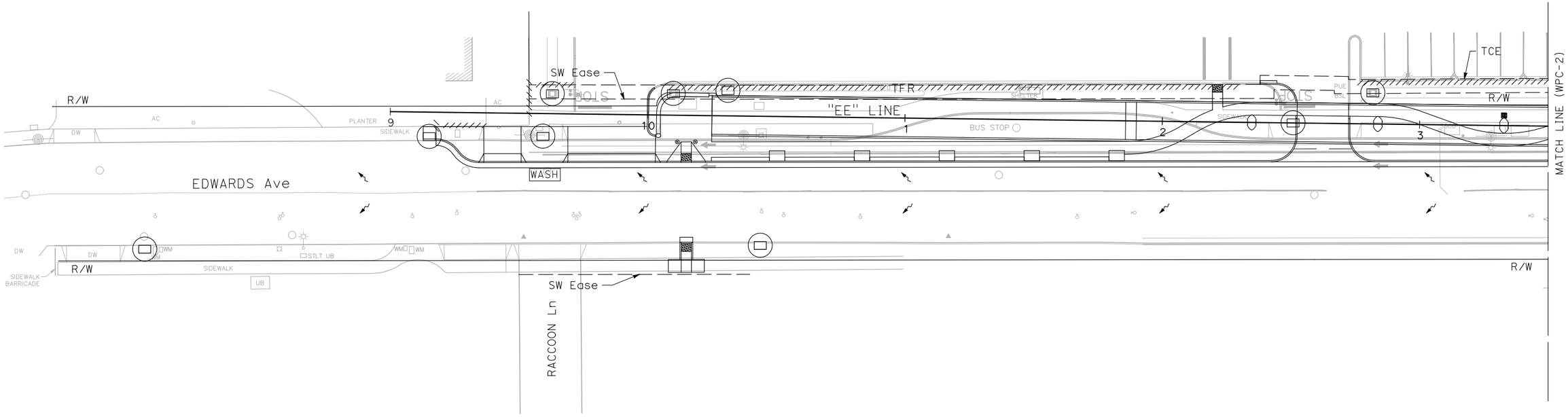
PERSPECTIVE

NOTE:

FOR INFORMATION NOT SHOWN, SEE CALTRANS STANDARD PLANS.

MODIFIED TEMPORARY CONSTRUCTION ENTRANCE (TYPE 2)

S A N T A R O S A



TEMPORARY WATER POLLUTION CONTROL PLAN

SCALE: 1" = 20'

APPROVED FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

WPC-1

TM	2-21-25	TRENT MCGOWAN	CARMELO CECILIO
REVISED BY	DATE REVISED	CALCULATED-DESIGNED BY	CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 02-21-25 — DATE PLOTTED => Apr 29 2025 — TIME PLOTTED => 11:05 am

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	21	247

REGISTERED CIVIL ENGINEER — DATE: 2-21-25

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — J.S. BHANDAL — No. 77430 — Exp. 6-30-25 — CIVIL — STATE OF CALIFORNIA

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

REVISED BY	DATE REVISED
TM	2-21-25

CALCULATED-DESIGNED BY: TRENT MCGOWAN
CHECKED BY: CARMELO CECILIO

CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

SANTA ROSA

CLEVELAND Ave
STATE R/W
"SR" LINE
"EE" LINE
SB
NB
STOP
R/W
SW Ease
TCE
TFR
MATCH LINE (WPC-1)
EDWARDS Ave
EDWARDS Ave POC
BRIDGE No. 20-0307
WASH
ROUTE 101
ARMORY Dr
ELLIOTT Ave
FREEWAY SIGN
PLATFORM
AHEAD
MATCH LINE (WPC-3)
FOR NOTE AND LEGEND, SEE SHEET WPC-1

APPROVED FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

TEMPORARY WATER POLLUTION CONTROL PLAN

SCALE: 1" = 20'

WPC-2

LAST REVISION: 02-21-25
DATE PLOTTED => Apr 29 2025
TIME PLOTTED => 11:06 am

BORDER LAST REVISED 7/2/2010

USERNAME => ahernandez
DGN FILE => gb_WPC-02.dwg

RELATIVE BORDER SCALE IS IN INCHES: 0 1 2 3

UNIT 0751

PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	22	247

REGISTERED CIVIL ENGINEER — DATE 2-21-25

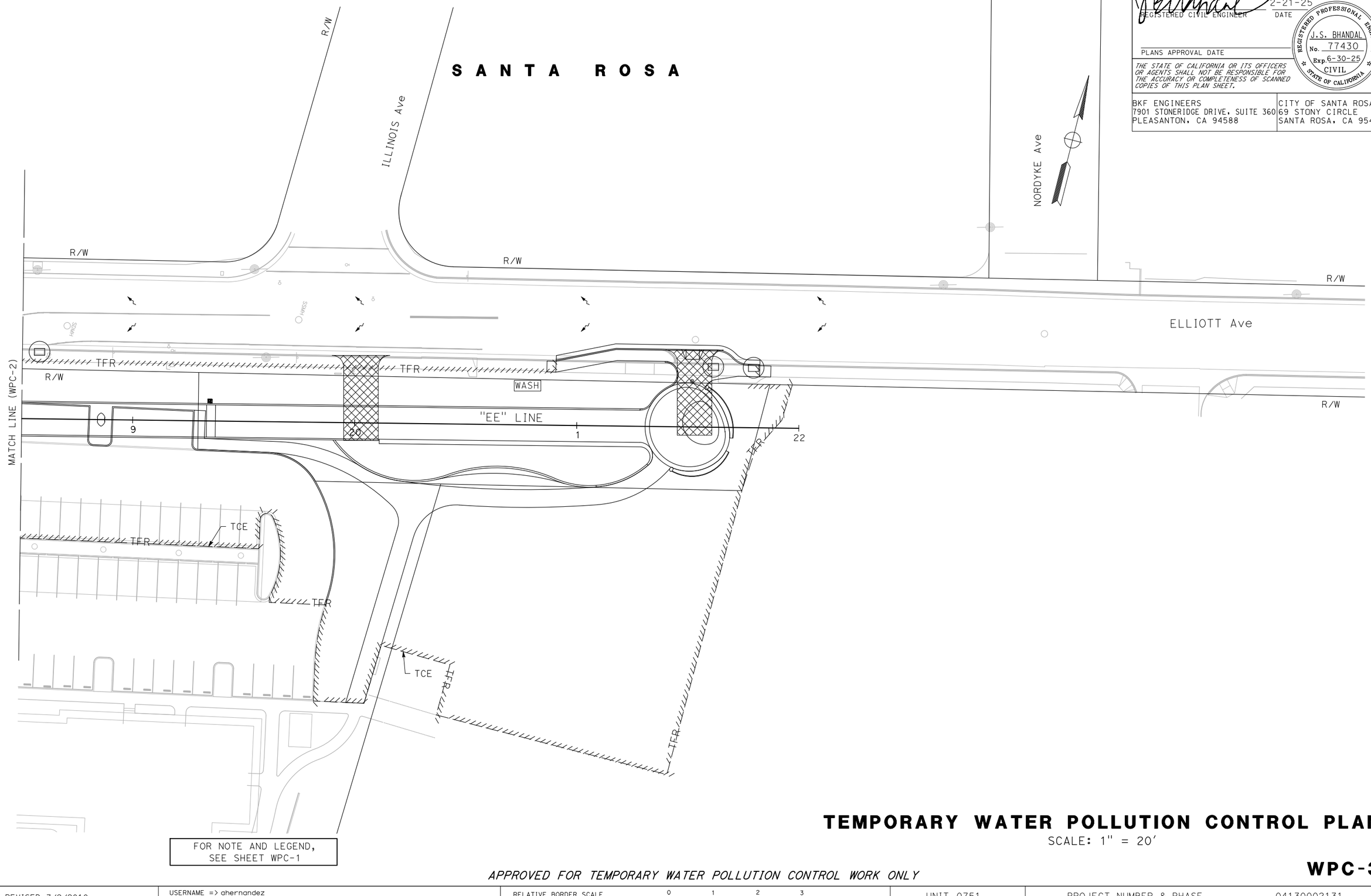
PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404



TEMPORARY WATER POLLUTION CONTROL PLAN

SCALE: 1" = 20'

WPC-3

APPROVED FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

REVISED BY	TM		
DATE REVISED	2-21-25		
CALCULATED-DESIGNED BY	TRENT MCGOWAN		
CHECKED BY	CARMELO CECILIO		
CONSULTANT FUNCTIONAL SUPERVISOR	JAGGI S. BHANDAL		
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans		

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	23	247

REGISTERED CIVIL ENGINEER — DATE 2-21-25

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — J.S. BHANDAL — No. 77430 — Exp. 6-30-25 — CIVIL — STATE OF CALIFORNIA

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

TEMPORARY WATER POLLUTION CONTROL QUANTITIES

SHEET No.	TEMPORARY FIBER ROLL (LF)	MODIFIED TEMPORARY CONSTRUCTION ENTRANCE (TYPE 2) (EA)	TEMPORARY DRAINAGE INLET PROTECTION (EA)
WPC-1	370		9
WPC-2	404	3	9
WPC-3	906	2	3
TOTAL	1680	5	21

CALCULATED-DESIGNED BY	TRENT MCGOWAN
CHECKED BY	CARMELO CECILIO
REVISED BY	TM
DATE REVISED	2-21-25
CONSULTANT FUNCTIONAL SUPERVISOR	JAGGI S. BHANDAL
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans

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TEMPORARY WATER POLLUTION CONTROL QUANTITIES

WPCQ-1

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DGN FILE => gd_WPCQ-01.dwg
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0751
PROJECT NUMBER & PHASE 04130002131

NOTES:

1. EXISTING DRAINAGE LOCATIONS ARE APPROXIMATE. VERIFY LOCATION AND ELEVATION BEFORE MODIFYING EXISTING DRAINAGE FACILITIES.
2. CONTRACTOR TO VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIALS.
3. SEE SUBSURFACE DRAINAGE PLAN FOR BIORETENTION FACILITIES.

ABBREVIATIONS:

COSR	CITY OF SANTA ROSA
EOD	EDGE OF DITCH
FOW	FACE OF WALL
Rem	REMOVE

LEGEND:

- REMOVE CULVERT
- ABANDON CULVERT
- 2'x2' SMALL ROCK SLOPE PROTECTION ENERGY DISSIPATOR
- (X) DRAINAGE SYSTEM NUMBER (SEE DRAINAGE PROFILES)
- (x) DRAINAGE SYSTEM PART

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	24	247

REGISTERED CIVIL ENGINEER — DATE 2-21-25

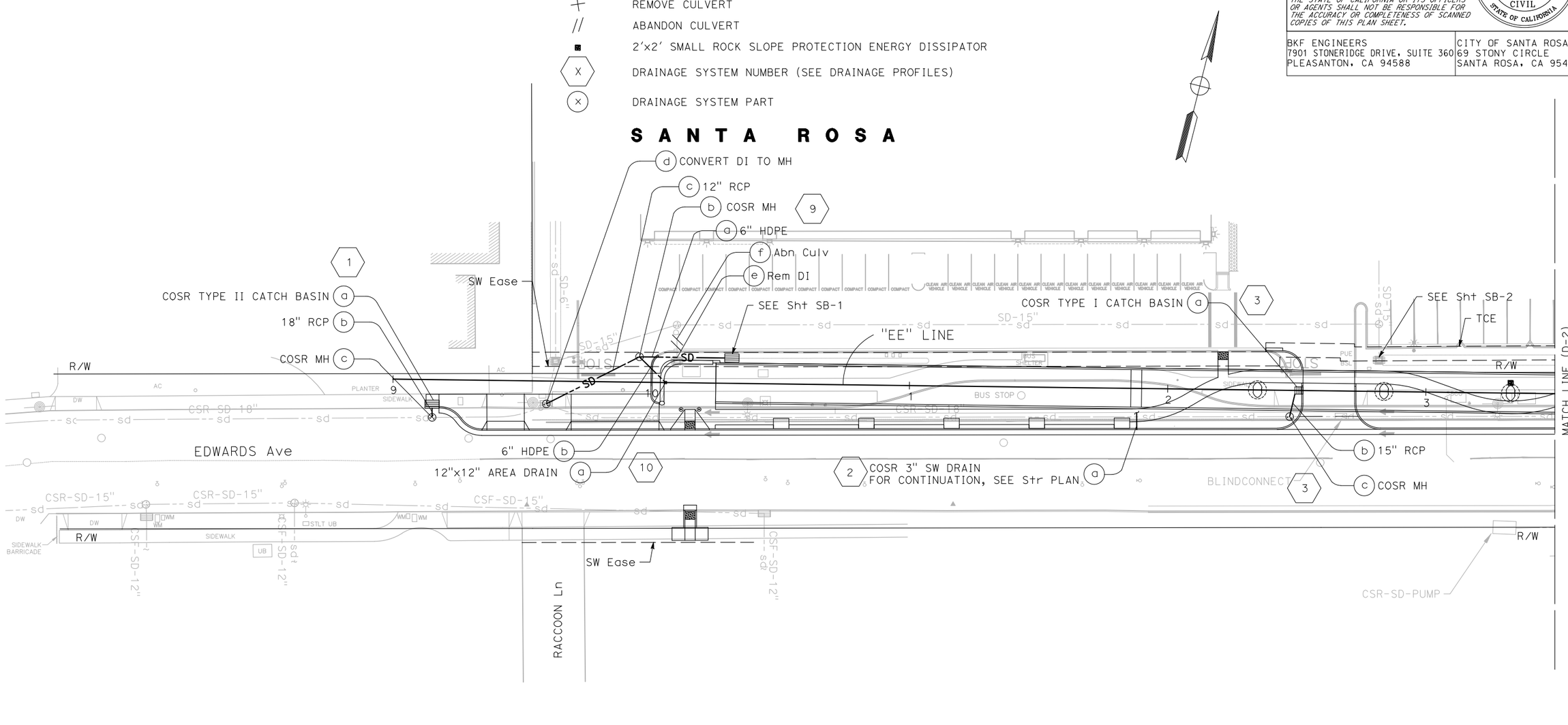
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69 STONY CIRCLE
SANTA ROSA, CA 95404



DRAINAGE PLAN

SCALE: 1" = 20'

D-1

APPROVED FOR DRAINAGE WORK ONLY

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TM					
2-21-25					

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	25	247

REGISTERED CIVIL ENGINEER — DATE 2-21-25

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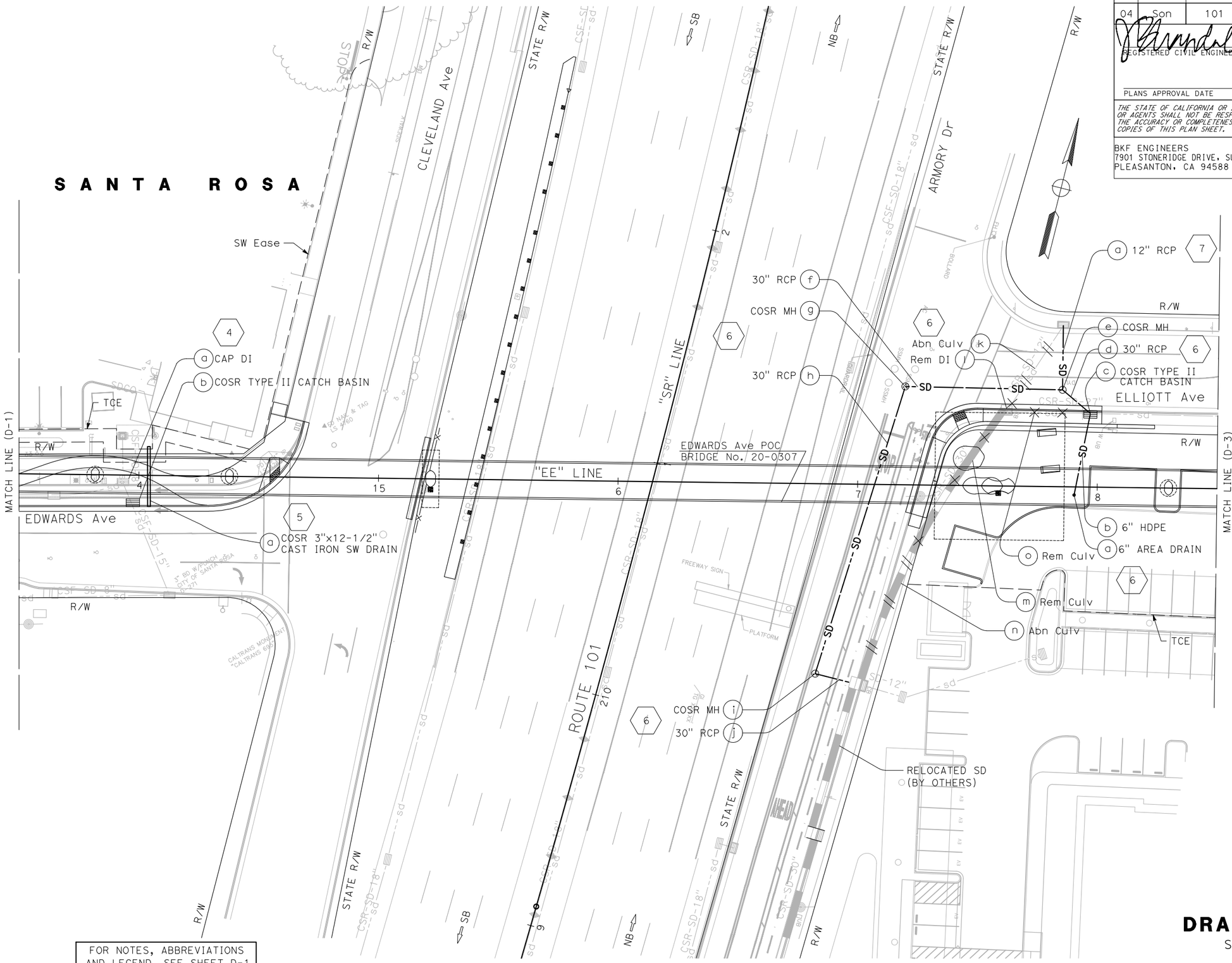
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SANTA ROSA, CA 95404

SANTA ROSA



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

DRAINAGE PLAN

SCALE: 1" = 20'

D-2

APPROVED FOR DRAINAGE WORK ONLY

REVISED BY	TM		
DATE REVISED	2-21-25		
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CONSULTANT FUNCTIONAL SUPERVISOR	JAGGI S. BHANDAL		
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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0751

PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	26	247

REGISTERED CIVIL ENGINEER — DATE: 2-21-25

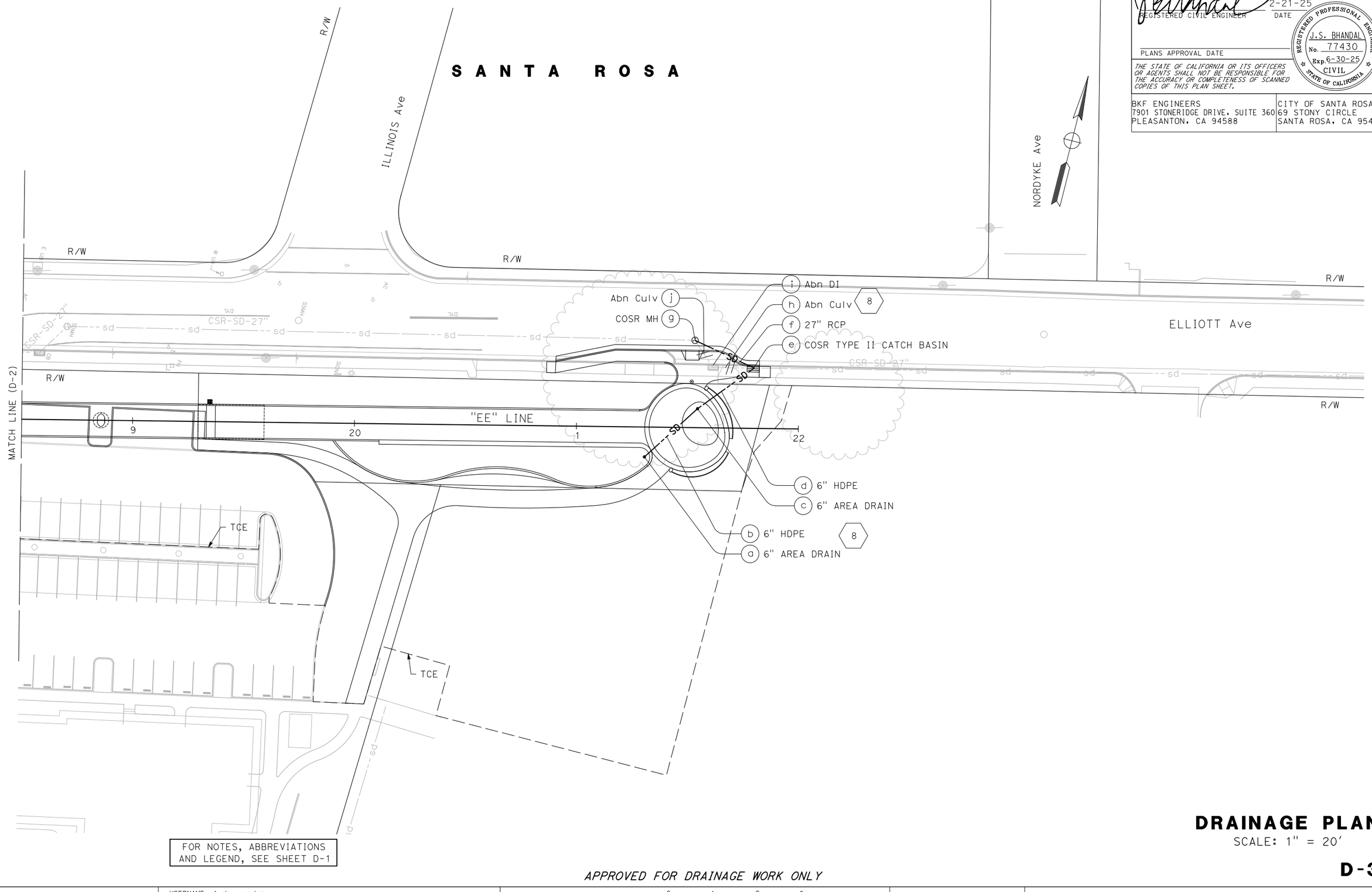
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69 STONY CIRCLE
SANTA ROSA, CA 95404



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

DRAINAGE PLAN

SCALE: 1" = 20'

D-3

APPROVED FOR DRAINAGE WORK ONLY

CALCULATED-DESIGNED BY	TM	2-21-25
CHECKED BY	REVISED BY	DATE REVISED
TRENT MCGOWAN	CARMELO CECILIO	
CONSULTANT FUNCTIONAL SUPERVISOR	JAGGI S. BHANDAL	
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	27	247

REGISTERED CIVIL ENGINEER — DATE 2-21-25

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — J.S. BHANDAL — No. 77430 — Exp. 6-30-25 — CIVIL — STATE OF CALIFORNIA

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

DRAINAGE SYSTEM No. 1

9.50' Rt "EE" 9+15.20 — 14.65' Rt "EE" 9+15.30

a) COSR TYPE II CATCH BASIN
TC 143.06
TG 142.59

c) COSR MH
RIM (142.99)

OG

Exist 18"

FL (139.90)

FL 139.95

FL 139.90

b) 18" RCP (S=1.0%)
W/ Conc Bkf
(PIPE TRENCH)
(SEE DRAINAGE DETAILS)

DRAINAGE SYSTEM No. 3

0.00' Rt "EE" 12+51.90

a) COSR TYPE I
CATCH BASIN
TC 144.72
TG 144.22

10.20' Rt "EE" 12+47

c) COSR MH
RIM 144.82

OG

Exist 18"

FL 141.85

FL (141.78)

FL 141.78

b) 15" RCP PIPE
S=1.0%

DRAINAGE SYSTEM No. 4

13.10' Rt "EE" 13+97.60

c) COSR TYPE II CATCH BASIN
TC 146.09
TG 145.59

3.28' Lt "EE" 13+93.40

a) CAP DI

OG

FL 142.60

Exist 8"

FL (142.62)

Exist 15"

DRAINAGE SYSTEM No. 5

12.00' Lt "EE" 14+04.00 — 13.00' Rt "EE" 14+04.35

FG — OG

S=2.8%

FL (144.90)

FL 145.62

a) 3" x 12-1/2" CAST IRON
COSR SW DRAIN

DRAINAGE SYSTEM No. 9

9.82' Lt "EE" 10+31.12

20 a) COSR SIDE OPENING FIELD DRAIN

8.86' Rt "EE" 9+59.42

d) CONVERT DI TO MH
RIM 143.47

9.82' Lt "EE" 9+95.32

b) COSR MH
RIM 143.97

OG

S=0.3%

S=0.3%

a) 6" HDPE

FL 140.26

FL (140.14)

c) 12" RCP
W/ Conc Bkf
(PIPE TRENCH)
(SEE DRAINAGE DETAILS)

IDENTICAL

DRAINAGE SYSTEM No. 10

9.82' Lt "EE" 9+95.32 — 1.15' Rt "EE" 10+15

9 c) COSR MH

OG

S=1.00%

b) 6" HDPE

a) 12"x12" AREA DRAIN
TG 144.00

DRAINAGE PROFILES

SCALE: Horiz 1" = 10'
Vert 1" = 10'

DP-1

REVISED BY	DATE REVISED
TM	2-21-25

CALCULATED-DESIGNED BY	CHECKED BY
TRENT MCGOWAN	CARMELO CECILIO

CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	28	247

REGISTERED CIVIL ENGINEER — DATE 2-21-25

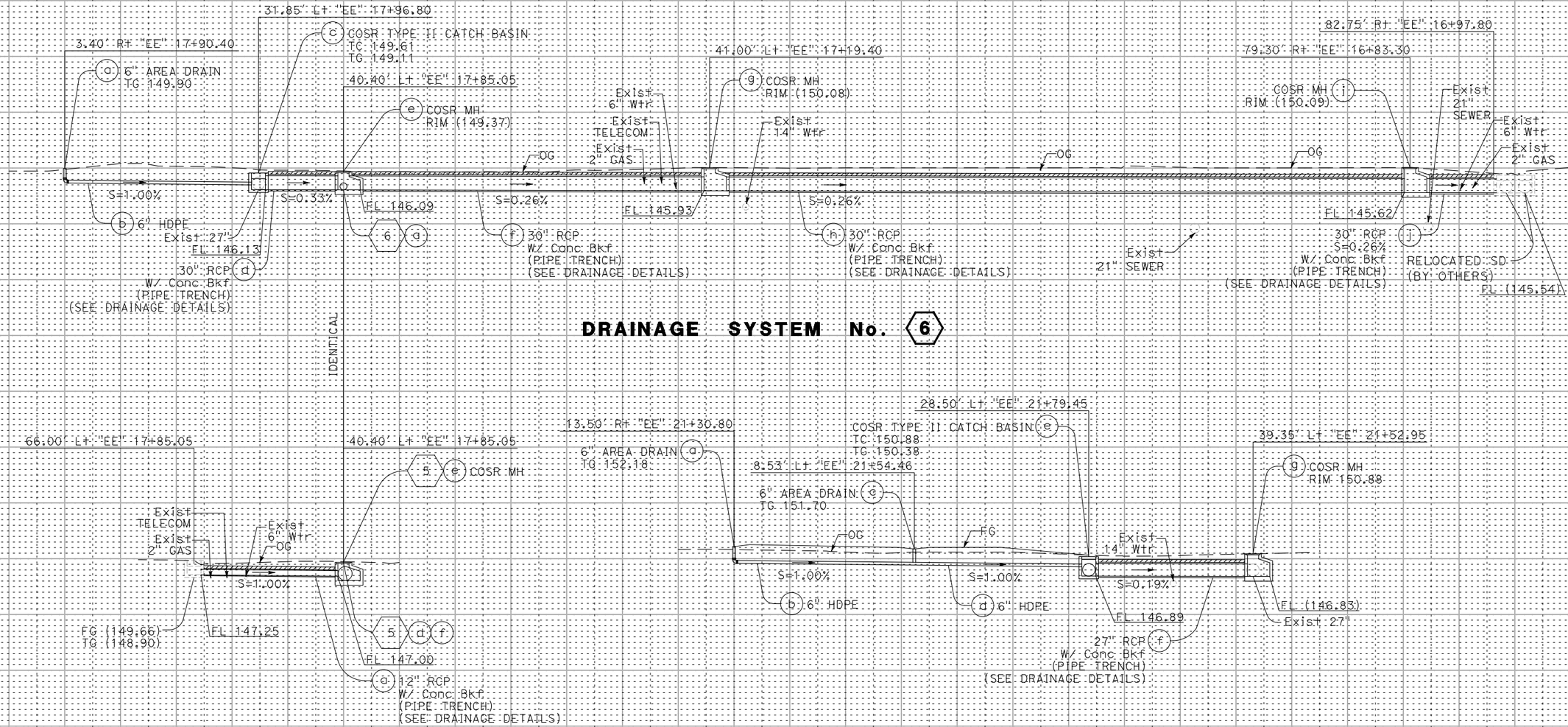
PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404



DRAINAGE SYSTEM No. 6

DRAINAGE SYSTEM No. 7

DRAINAGE SYSTEM No. 8

DRAINAGE PROFILES

SCALE: Horiz 1" = 10'
Vert 1" = 10'

DP-2

REVISED BY: TM — DATE REVISED: 2-21-25
CALCULATED-DESIGNED BY: TRENT MCGOWAN — CHECKED BY: CARMELO CECILIO
CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION 02-21-25 — DATE PLOTTED => Apr 29 2025 — TIME PLOTTED => 11:09 am

BORDER LAST REVISED 7/2/2010 — USERNAME => ahernandez — DGN FILE => ib_DP-02.dwg — RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 — UNIT 0751 — PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	29	247

REGISTERED CIVIL ENGINEER — DATE 2-21-25

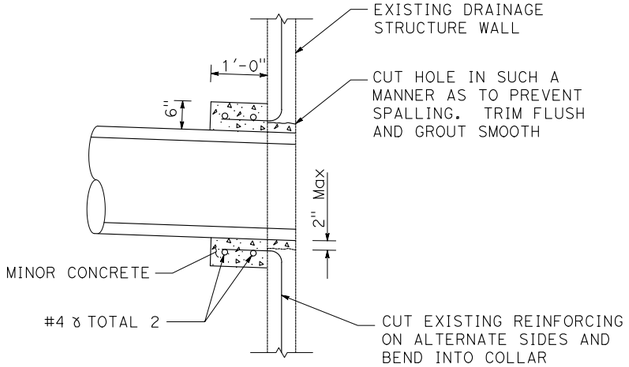
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — J.S. BHANDAL — No. 77430 — Exp. 6-30-25 — CIVIL — STATE OF CALIFORNIA

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.

BKF ENGINEERS
7901 STONERIDGE DRIVE, SUITE 360
PLEASANTON, CA 94588

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

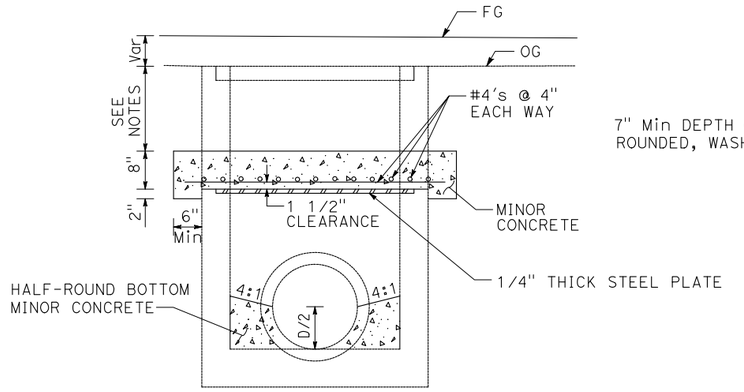


PIPE CONNECTION TO EXISTING DRAINAGE STRUCTURE

6 j 7 a

NOTES:

1. IF WALL OF EXISTING DRAINAGE STRUCTURE HAS NO REINFORCING, DRILL AND BOND #4 DOWELS, 1' ON CENTER, 6" INTO WALL AND BEND INTO COLLAR.
2. SQUARE OR CIRCULAR COLLAR OPTIONAL.

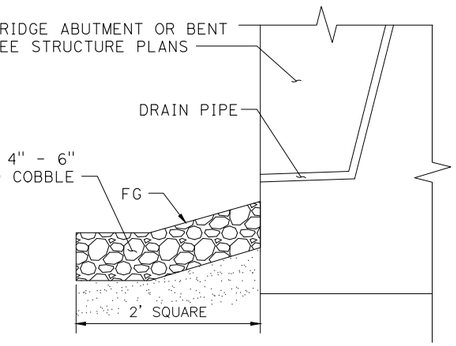


CAP DRAINAGE INLET

1 e 4 a

NOTES:

1. TOP OF CAP TO BE 1'-0" Min BELOW THE GRADING PLANE.
2. REMOVE EXISTING DRAINAGE STRUCTURE WALLS WHERE REQUIRED.

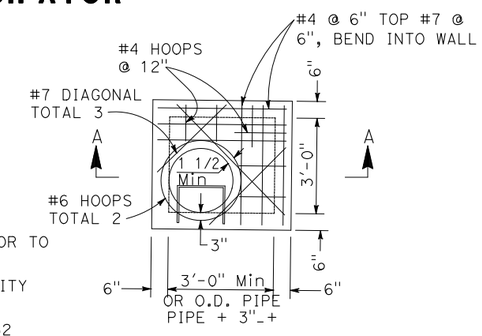


CASE 2

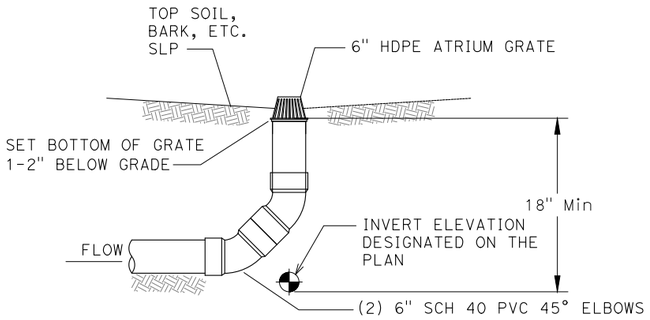
SMALL ROCK SLOPE PROTECTION ENERGY DISSIPATOR

NOTES:

1. EXISTING PAVEMENT TO BE SAWCUT PRIOR TO CONVERTING DI TO MH.
2. FOR FRAME AND COVER DETAILS, SEE CITY OF SANTA ROSA STANDARD DETAIL 512.
3. SEE CALTRANS STANDARD PLAN D72B, G2 INLET FOR ADDITIONAL DETAILS.



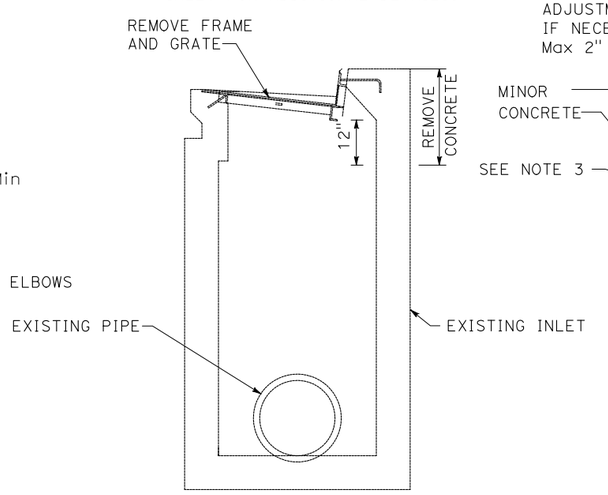
PLAN



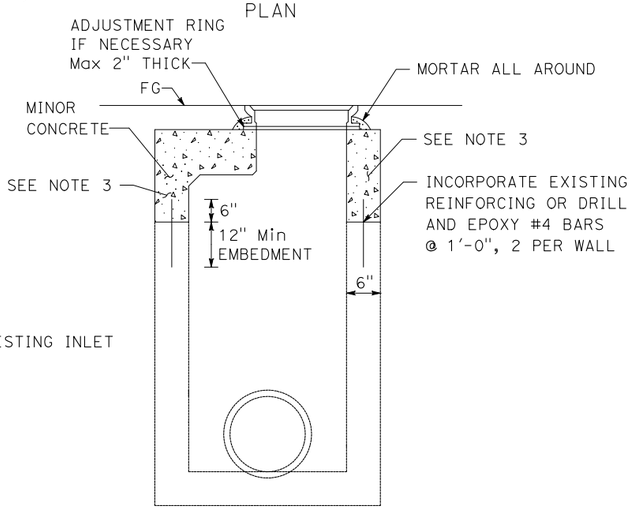
NOTE:

GLUED FITTINGS MAY BE SUBSTITUTED FOR GASKETED FITTINGS AT THE OPTION OF THE INSTALLATION CONTRACTOR.

AREA DRAIN

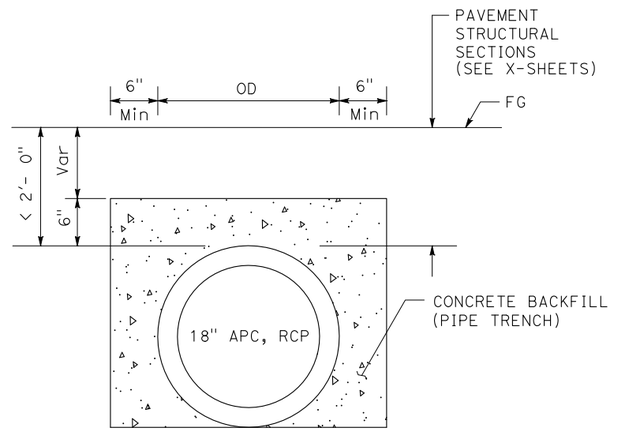


EXISTING CONDITION



MODIFIED CONDITION

CONVERT DI TO MH



TRENCH DETAIL (MINOR CONCRETE BACKFILL)

PIPES WITH LESS THAN 2' COVER

1 b 6 d f h j 7 a 8 d

DRAINAGE DETAILS

NO SCALE

DD-1

REVISED BY	DATE REVISED
TM	2-21-25

CALCULATED-DESIGNED BY	CHECKED BY
TRENT MCGOWAN	CARMELO CECILIO

CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

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BORDER LAST REVISED 7/2/2010 | USERNAME => ahernandez | DGN FILE => ic_DD-01.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

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REGISTERED CIVIL ENGINEER — DATE: 2-21-25

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — J.S. BHANDAL — No. 77430 — Exp. 6-30-25 — CIVIL — STATE OF CALIFORNIA

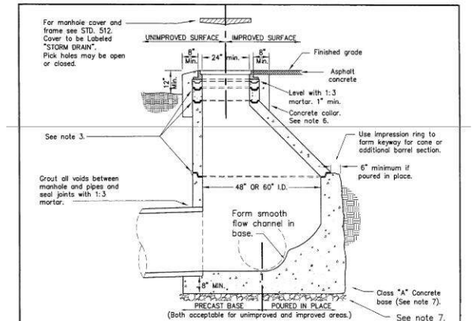
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PLEASANTON, CA 94588

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

REVISED BY	DATE REVISED
TM	2-21-25

CALCULATED-DESIGNED BY: TRENT MCGOWAN
CHECKED BY: CARMELO CECILIO
CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION



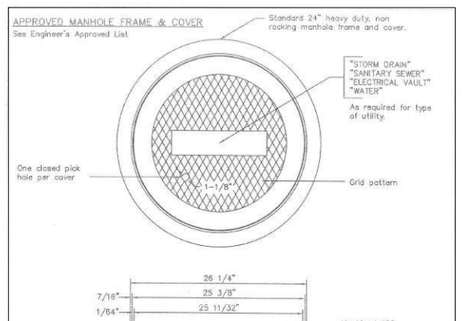
NOTES:

1. When manholes are installed in unimproved areas, the top of the cover shall be a min. of 1 foot above adjacent finished grade.
2. Min. of one 3" grade adjustment ring. Max. height of grade adjustment rings = 20". Alternatively, contractor may cast grade adjustment rings in place.
3. Set all sections in 1:3 mortar bed. Wet both tongue and groove before applying mortar. Wipe inside of joint smooth and plaster outside of joint with 1/2" layer of mortar. Ram-nek gaskets or approved equal may be used instead of mortar.
4. Cone section (taper) may be concentric or eccentric unless otherwise specified by the Engineer.
5. All precast manhole sections per ASTM C478.
6. Class "A" conc. collar shall be 2" below top of manhole cover in improved surface areas.
7. Poured-in-place base shall be poured full thickness to undisturbed sides of excavation, sloped at 1:1 or shall be formed. Precast base shall be from City Engineer's approved list and be placed on 6" thick 3/4" drain rock sub-base installed against undisturbed earth.

APPROVED 48" & 60" PRECAST STORM DRAIN MANHOLE COMPONENTS
See Engineer's approved list

CITY OF SANTA ROSA	
STANDARD CONCRETE STORM DRAIN MANHOLE	
SCALE: None	DATE: 04/2005
DWN. DIT / CHK.	APPROVED	STD- 400

CITY OF SANTA ROSA MANHOLE

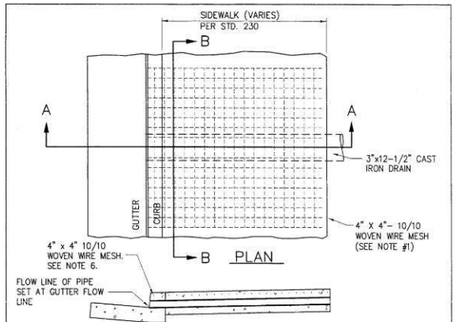


NOTES:

1. Specify sanitary sewer, storm drain, electrical vault, or water when ordering. All castings shall be dipped in approved ASPHALTUM or BITUMINOUS Paint.
2. All material used in manufacturing shall conform to A.S.T.M. designation A-48 Class 35 B, or of United States Government Specifications QQ1-652b.
3. Minimum weight components: Cover – 130 pounds Frame – 135 pounds
4. Bolt down covers are required on all sewer mains located in easements, on school grounds, through parks, and on any manhole within 1000ft of a creek. Bolts shall be 1/2"ø stainless steel with 3/4" hex head. Coat the bolt threads on the final bolt up with "anti-seize" or teflon based pipe dope.

CITY OF SANTA ROSA	
MANHOLE FRAME and COVER	
SCALE: NONE	DATE: Sept. 2017
DWN: AW / CHK: RM	APPROVED	FILE NO. STD.- 512

CITY OF SANTA ROSA MANHOLE FRAME AND COVER



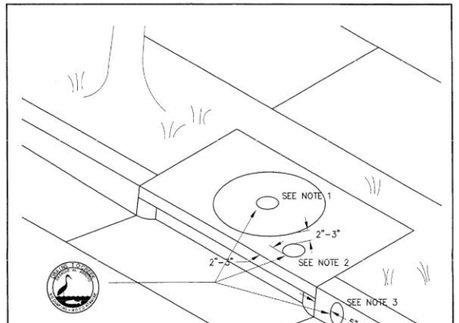
NOTES

1. Wire mesh shall be full width of sidewalk minus 2". Length of wire mesh shall, at a minimum, equal the width and be centered over the pipe.
2. On-site drainage and location of curb outlets shall be by owner to the satisfaction of the City Engineer.
3. Drain pipe shall be installed so that the top of pipe is 2½" (min.) below finished grade at back of sidewalk.
4. Sidewalk shall be removed to the nearest scoremark.
5. If sidewalk and gutter are not contiguous, remove curb and gutter a minimum of one foot on each side of the drain pipe. Dowel new gutter to existing curb and gutter with (2) 12" #4 rebars, place one dowel in curb and one in gutter pan using epoxy.
6. If sidewalk and gutter are contiguous, pour monolithic with wire fabric extending into curb.

CAST IRON SIDEWALK DRAIN
See Engineer's approved list

CITY OF SANTA ROSA	
3" X 12-1/2" CAST IRON SIDEWALK DRAIN	
SCALE: None	DATE: 04/2005
DWN: DIT / CHK: JCF	APPROVED	FILE NO. STD.- 406 B

CITY OF SANTA ROSA 3" X 12-1/2" CAST IRON SIDEWALK DRAIN



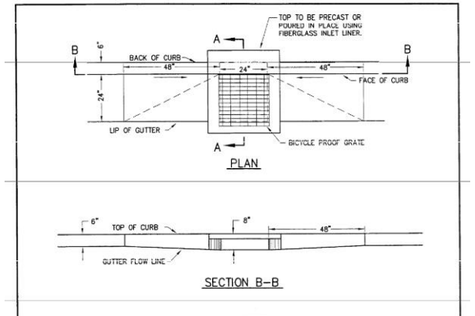
NOTES:

1. Affix decal to center of catch basin lid ONLY if catch basin is not part of the sidewalk.
2. If the catch basin lid is cast iron AND the catch basin is not part of the sidewalk affix label in this location, oriented to be read from the street.
3. Affix label on the curb face right of the catch basin if catch basin is part of the sidewalk. The left side may be used if the right side curb is damaged or painted.

APPROVED STORM DRAIN LABELS
See Engineer's approved list.

CITY OF SANTA ROSA	
STORM DRAIN LABELS	
SCALE: NONE	DATE: 04/2005
DWN. DIT / CHK.	APPROVED	STD- 409

CITY OF SANTA ROSA STORM DRAIN LABELS



NOTES:

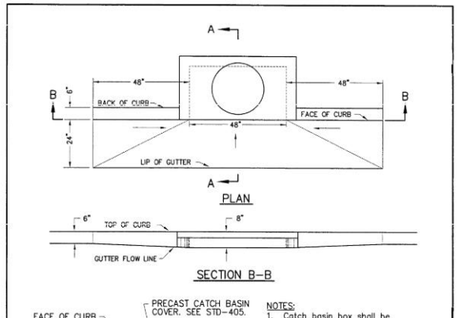
1. Concrete shall have a compressive strength of 4000 psi in 28 days.
2. Grate and nosing angle shall be hot dipped galvanized after fabrication per ASTM A-123.
3. Grate frames shall be installed tight against gutter flowline.
4. Catch basin box and grate shall be constructed to withstand H20 loading.
5. Install label per City Std 409.

ONLY TO BE USED WHERE SPECIFICALLY APPROVED BY VARIANCE.

APPROVED TYPE I CATCH BASINS
See Engineer's approved list

CITY OF SANTA ROSA	
TYPE I CATCH BASIN	
SCALE: none	DATE: 04/2005
DWN. DIT / CHK.	APPROVED	STD-403

CITY OF SANTA ROSA TYPE I CATCH BASIN



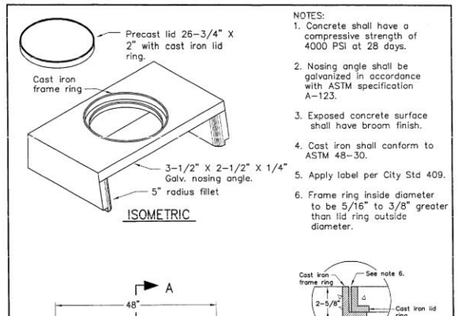
NOTES:

1. Catch basin box shall be constructed to withstand H20 loading.
2. Concrete shall have a compressive strength of 4000 psi in 28 days.
3. Wall thickness shall be 6" unless depth is greater than 8', then wall thickness shall be 8".
4. Install label per City Std 409.

APPROVED TYPE II CATCH BASINS
See Engineer's approved list

CITY OF SANTA ROSA	
TYPE II CATCH BASIN	
SCALE: None	DATE: 04/2005
DWN. DIT / CHK.	APPROVED	STD-402

CITY OF SANTA ROSA TYPE II CATCH BASIN



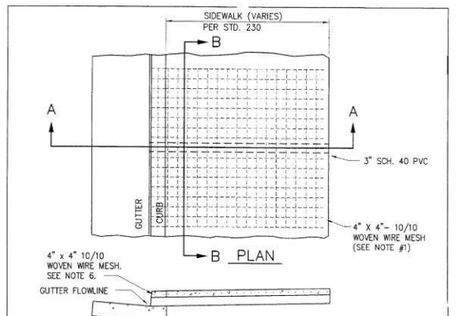
NOTES:

1. Concrete shall have a compressive strength of 4000 PSI at 28 days.
2. Nosing angle shall be galvanized in accordance with ASTM specification A-123.
3. Exposed concrete surface shall have broom finish.
4. Cast iron shall conform to ASTM 48-30.
5. Apply label per City Std 409.
6. Frame ring inside diameter to be 5/16" to 3/8" greater than lid ring outside diameter.

APPROVED PRECAST CATCH BASIN COVERS
See Engineer's approved list.

CITY OF SANTA ROSA	
PRECAST CATCH BASIN COVER	
SCALE: None	DATE: 04/2005
DWN. DIT / CHK.	APPROVED	STD-405

CITY OF SANTA ROSA CATCH BASIN COVER



NOTES

1. Wire mesh shall be full width of sidewalk minus 2". Length of wire mesh shall, at a minimum, equal the width and be centered over the pipe.
2. On-site drainage and location of curb outlets shall be by owner to the satisfaction of the City Engineer.
3. Drain pipe shall be installed so that the top of pipe is 2½" (min.) below finished grade at back of sidewalk.
4. Sidewalk shall be removed to the nearest scoremark.
5. If sidewalk and gutter are not contiguous, curb may be cored or curb and gutter removed and replaced a minimum of one foot on each side of the drain pipe. Dowel new gutter to existing curb and gutter with (2) 12" #4 rebars, place one dowel in curb and one in gutter pan using epoxy.
6. If sidewalk and gutter are contiguous, pour monolithic with wire fabric extending into curb.

CITY OF SANTA ROSA	
3" SIDEWALK DRAIN	
SCALE: None	DATE: 04/2005
DWN. DIT / CHK. JCF	APPROVED	FILE NO. STD.- 406A

CITY OF SANTA ROSA 3" SIDEWALK DRAIN

DRAINAGE DETAILS

NO SCALE

DD-2

LAST REVISION DATE PLOTTED => Apr 29 2025
02-21-25 TIME PLOTTED => 11:09 am

BORDER LAST REVISED 7/2/2010 | USERNAME => ahernandez | DGN FILE => ic_DD-02.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

NOTES:

1. EXISTING DRAINAGE LOCATIONS ARE APPROXIMATE. VERIFY LOCATION AND ELEVATION BEFORE MODIFYING EXISTING DRAINAGE FACILITIES.
2. CONTRACTOR TO VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIALS.
3. ALL PIPE JOINTS ARE STANDARD TYPE.
4. ALL PIPES SHALL BE SMOOTH INTERIOR TYPE, UNLESS OTHERWISE NOTED IN THE DESCRIPTION.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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REGISTERED CIVIL ENGINEER — DATE 2-21-25

REGISTERED PROFESSIONAL ENGINEER — J.S. BHANDAL — No. 77430 — Exp. 6-30-25 — CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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BKF ENGINEERS
7901 STONERIDGE DRIVE, SUITE 360
PLEASANTON, CA 94588

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

DRAINAGE QUANTITIES

DRAINAGE SHEET No.	DRAINAGE SYSTEM No. ⬡	DRAINAGE UNIT ◯	CONVERT DI TO MH (EA)	COSR MH (EA)	COSR STORM DRAIN LABEL (EA)	6" AREA DRAIN (EA)	12"x12" AREA DRAIN (EA)	COSR 3" SIDEWALK DRAIN (LF)	COSR TYPE I CATCH BASIN (EA)	COSR TYPE II CATCH BASIN (EA)	Conc Bkf (PIPE TRENCH) (CY)	COSR 3"x12-1/2" CAST IRON SW DRAIN (LF)	6" HIGH DENSITY POLYETHYLENE PIPE (TYPE S) (LF)	REINFORCED CONCRETE PIPE 12" (LF)	REINFORCED CONCRETE PIPE 15" (LF)	REINFORCED CONCRETE PIPE 18" (LF)	REINFORCED CONCRETE PIPE 27" (LF)	REINFORCED CONCRETE PIPE 30" (LF)	CAP INLET (EA)	REMOVE INLET (EA)	ABANDON INLET (EA)	REMOVE CULVERT (LF)	ABANDON CULVERT (LF)	SAND BACKFILL (CY)	DESCRIPTION	STATION	DRAINAGE SHEET No.	DRAINAGE SYSTEM No. ⬡	DRAINAGE UNIT ◯
D-1	1	a			1					1															COSR TYPE II	9.52′ R+ "EE" 9+15.26	D-1	1	a
↓	↓	b									0.5					5.1									18" RCP	9.52′ R+ "EE" 9+15.26 TO 14.65′ R+ "EE" 9+15.32	↓	↓	b
D-1	1	c		1																					COSR MH	14.65′ R+ "EE" 9+15.32	D-1	1	c
D-1	2	a						8												1					SW DRAIN	9.43′ R+ "EE" 11+88.13 TO 15.96′ R+ "EE" 11+88.22	D-1	2	a
D-1	3	a							1																COSR TYPE I	0.02′ R+ "EE" 12+50.83	D-1	3	a
↓	↓	b													9.0										15" RCP	0.02′ R+ "EE" 12+50.83 TO 10.21′ R+ "EE" 12+47.33′	↓	↓	b
D-1	3	c		1																					COSR MH	10.21′ R+ "EE" 12+47.33′	D-1	3	c
D-2	4	a																	1						CAP DI	3.28′ R+ "EE" 13+93.40	D-2	4	a
↓	↓	b			1					1															COSR TYPE II	11.54′ R+ "EE" 13+97.59	↓	↓	b
D-2	5	a										25													SW DRAIN	11.98′ L+ "EE" 14+04.01 TO 13.02′ R+ "EE" 14+04.35	D-2	5	a
D-2	6	a				1																			6" AREA DRAIN	3.43′ R+ "EE" 17+90.40	D-2	6	a
		b											34.7												6" HDPE	3.43′ R+ "EE" 17+90.40 TO 30.71′ L+ "EE" 17+96.79			b
		c			1					1															COSR TYPE II	30.71′ L+ "EE" 17+96.79			c
		d									2.9							15.2							30" RCP	30.71′ L+ "EE" 17+96.79 TO 40.42′ L+ "EE" 17+85.05			d
		e		1																					COSR MH	40.42′ L+ "EE" 17+85.05			e
		f									15.0							65.6							30" RCP	40.42′ L+ "EE" 17+85.05 TO 41.01′ L+ "EE" 17+19.42			f
		g		1																					COSR MH	41.01′ L+ "EE" 17+19.42			g
		h									29.4							125.6							30" RCP	41.01′ L+ "EE" 17+19.42 TO 79.28′ R+ "EE" 16+83.29			h
		i		1																					COSR MH	79.28′ R+ "EE" 16+83.29			i
		j									3.8							20.7							30" RCP	79.28′ R+ "EE" 16+83.29 TO 83.79′ R+ "EE" 17+02.11			j
		k																					43	1.3	Abn Culv - 12"	31.03′ L+ "EE" 17+61.80 TO 67.24′ L+ "EE" 17+85.08			k
		l																		1					Rem INLET	31.03′ L+ "EE" 17+61.80			l
		m																				64.5			Rem Culv - 30"	23.44′ R+ "EE" 17+27.25 TO 31.03′ L+ "EE" 17+61.80			m
		n																					62.8	11.4	Abn Culv - 30"	83.79′ R+ "EE" 17+02.11 TO 23.44′ R+ "EE" 17+27.25	↓	↓	n
D-2	6	o																				95.9			Rem Culv - 30"	31.03′ L+ "EE" 17+61.80 TO 30.71′ L+ "EE" 17+96.79	D-2	6	o
D-2	7	a									3.1			26.8											12" RCP	67.24′ L+ "EE" 17+85.08 TO 40.42′ L+ "EE" 17+85.05	D-2	7	a
SHEET TOTAL				5	3	1		8	1	3	54.7	25	34.7	26.8	9.0	5.1		227.1	1	2		160.4	105.8	12.7					

(N) - NOT A SEPARATE BID ITEM

DRAINAGE QUANTITIES

DQ-1

REVISED BY	DATE REVISED
TM	2-21-25

CALCULATED-DESIGNED BY: TRENT MCGOWAN
CHECKED BY: CARMELO CECILIO
CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

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USERNAME => ahernandez
DGN FILE => id_DQ-01.dwg
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UNIT 0751
PROJECT NUMBER & PHASE 04130002131

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69 STONY CIRCLE
SANTA ROSA, CA 95404

DRAINAGE QUANTITIES

DRAINAGE SHEET No.	DRAINAGE SYSTEM No. ⬡	DRAINAGE UNIT No. ◯	CONVERT DI TO MH (EA)	COSR MH (EA)	COSR STORM DRAIN LABEL (EA)	6" AREA DRAIN (EA)	12"x12" AREA DRAIN (EA)	COSR 3" SIDEWALK DRAIN (LF)	COSR TYPE I CATCH BASIN (EA)	COSR TYPE II CATCH BASIN (EA)	Conc Bkf (PIPE TRENCH) (CY)	COSR 3"x12-1/2" CAST IRON SW DRAIN (LF)	6" HIGH DENSITY POLYETHYLENE PIPE (TYPE S) (LF)	REINFORCED CONCRETE PIPE 12" (LF)	REINFORCED CONCRETE PIPE 15" (LF)	REINFORCED CONCRETE PIPE 18" (LF)	REINFORCED CONCRETE PIPE 27" (LF)	REINFORCED CONCRETE PIPE 30" (LF)	CAP INLET (EA)	REMOVE INLET (EA)	ABANDON INLET (EA)	REMOVE CULVERT (LF)	ABANDON CULVERT (LF)	SAND BACKFILL (CY)	DESCRIPTION	STATION	DRAINAGE SHEET No.	DRAINAGE SYSTEM No. ⬡	DRAINAGE UNIT No. ◯
D-3	8	a				1																			6" AREA DRAIN	13.50′ Rt "EE" 21+30.80	D-3	8	a
		b											32.3												6" HDPE	13.50′ Rt "EE" 21+30.80 TO 8.53′ Lt "EE" 21+54.46			b
		c				1																			6" AREA DRAIN	8.53′ Lt "EE" 21+54.46			c
		d											31.3												6" HDPE	8.53′ Lt "EE" 21+54.46 TO 28.50′ Lt "EE" 21+79.45			d
		e			1					1															COSR TYPE II	28.50′ Lt "EE" 21+79.45			e
		f									1.7						29.4								27" RCP	28.50′ Lt "EE" 21+79.45 TO 39.35′ Lt "EE" 21+52.95			f
		g		1																					COSR MH	39.35′ Lt "EE" 21+52.95			g
		h																					18.9	2.8	Abn Culv - 27"	27.15′ Lt "EE" 21+61.20 TO 27.14′ Lt "EE" 21+79.75			h
		i																			1				Abn DI	27.15′ Lt "EE" 21+61.20			i
D-3	8	j																					14.7	2.2	Abn Culv - 27"	39.33′ Lt "EE" 21+52.95 TO 27.15′ Lt "EE" 21+61.20	D-3	8	j
D-1	9	a											33.1												6" HDPE	9.82′ Lt "EE" 10+31.12 TO 9.82′ Lt "EE" 9+95.32	D-1	9	a
		b		1																					COSR MH	9.82′ Lt "EE" 9+95.32			b
		c												40.5											12" RCP	9.82′ Lt "EE" 9+95.32 TO 8.86′ Rt "EE" 9+59.42			c
		d	1																						CONVERT DI TO MH	8.86′ Rt "EE" 9+59.42			d
		e																		1					Rem DI	8.37′ Lt "EE" 10+09.89			e
D-1	9	f																					14.0	2.0	Abn Culv - 15"	8.37′ Lt "EE" 10+09.89 TO 22.36′ Lt "EE" 10+09.67	D-1	9	f
D-1	10	a					1																		12"x12" AREA DRAIN	1.15′ Rt "EE" 10+15	D-1	10	a
		b											22.6												6" HDPE	1.15′ Rt "EE" 10+15 TO 9.82′ Lt "EE" 9+95.32			b
SHEET TOTAL			1	2	1	2				1	1.7		119.3	40.5			29.4			1	1		47.6	7.0					
FROM DQ-1				5	3	1		8	1	3	54.7	25	34.7	26.8	9.0	5.1		227.1	1	2		160.4	105.8	12.7					
GRAND TOTAL			1	7	4	3	1	8	1	4	56.4	25	154.0	67.3	9.0	5.1	29.4	227.1	1	3	1	160.4	153.4	19.7					

(N) - NOT A SEPARATE BID ITEM

CLASS 2 AGGREGATE BASE

SHEET No.	DRAINAGE SYSTEM No. ⬡	DRAINAGE UNIT No. ◯	CY
D-1	1	b	0.53
D-2	6	d	1.61
D-2	6	f	11.59
D-2	6	h	22.70
D-2	6	j	2.94
D-2	7	a	2.90
D-3	8	f	2.73
		TOTAL	**45.0

** FOR INFORMATION ONLY, SEE SUMMARY OF QUANTITY SHEETS

HMA (TYPE A)

SHEET No.	DRAINAGE SYSTEM No. ⬡	DRAINAGE UNIT No. ◯	TON
D-1	1	b	0.9
D-2	6	d	3.3
D-2	6	f	23.5
D-2	6	h	46.0
D-2	6	j	6.0
D-2	7	a	5.9
D-3	8	f	5.5
		TOTAL	**91.0

** FOR INFORMATION ONLY, SEE SUMMARY OF QUANTITY SHEETS

DRAINAGE QUANTITIES

DQ-2

REVISED BY	DATE REVISED
TM	2-21-25

CALCULATED-DESIGNED BY: TRENT MCGOWAN
CHECKED BY: CARMELO CECILIO
CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION 02-21-25 | DATE PLOTTED => Apr 29 2025 | TIME PLOTTED => 11:10 am

BORDER LAST REVISED 7/2/2010 | USERNAME => ahernandez | DGN FILE => id_DQ-02.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	33	247

REGISTERED CIVIL ENGINEER — DATE 2-21-25

PLANS APPROVAL DATE

J.S. BHANDAL No. 77430 Exp. 6-30-25 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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.

BKF ENGINEERS
7901 STONERIDGE DRIVE, SUITE 360
PLEASANTON, CA 94588

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

NOTES:

1. EXISTING DRAINAGE LOCATIONS ARE APPROXIMATE ONLY. VERIFY LOCATION & ELEVATION BEFORE MODIFYING EXISTING DRAINAGE FACILITIES.
2. FOR PLANTING INFORMATION, SEE LANDSCAPE PLAN.

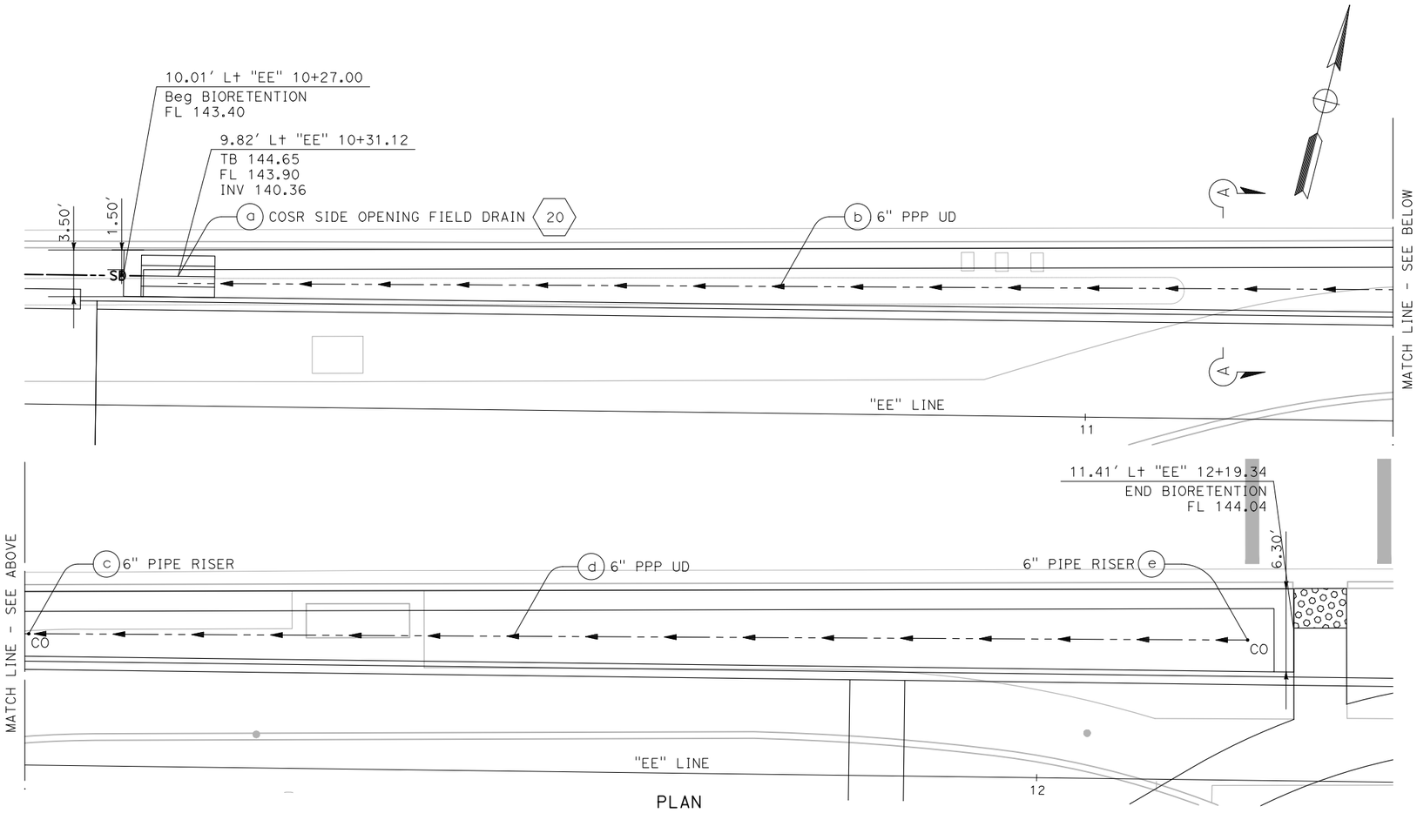
ABBREVIATIONS:

CO	PIPE RISER
TB	TOP OF BOX

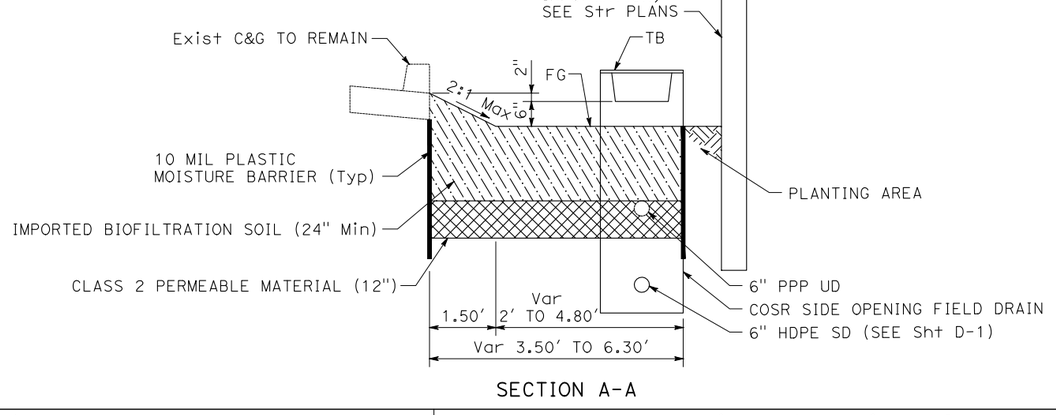
LEGEND:

IMPORTED BIOFILTRATION SOIL

CLASS 2 PERMEABLE MATERIAL



PLAN



SECTION A-A

SUBSURFACE DRAINAGE PLAN

SCALE: 1" = 5′

SB-1

LAST REVISION 02-21-25 | DATE PLOTTED => Apr 29 2025 | TIME PLOTTED => 11:11 am

DATE REVISED	REVISED BY
2-21-25	TM

TRENT MCGOWAN — CARMELO CECILIO

CALCULATED-DESIGNED BY — CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR — JAGGI S. BHANDAL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

BORDER LAST REVISED 7/2/2010 | USERNAME => ahernandez | DGN FILE => ie_SB-01.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	34	247

REGISTERED CIVIL ENGINEER — DATE 2-21-25

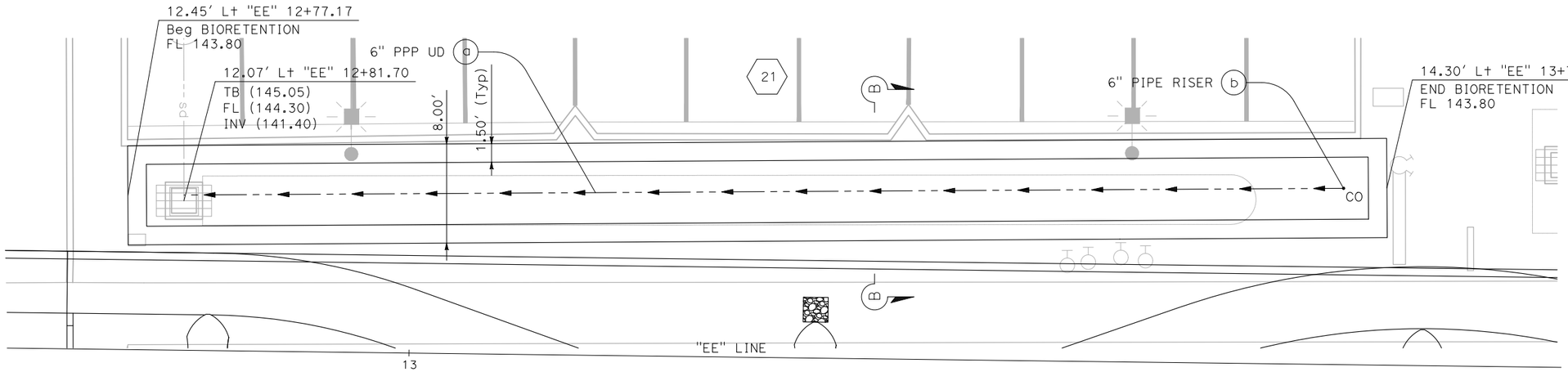
REGISTERED PROFESSIONAL ENGINEER — J.S. BHANDAL — No. 77430 — Exp. 6-30-25 — CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

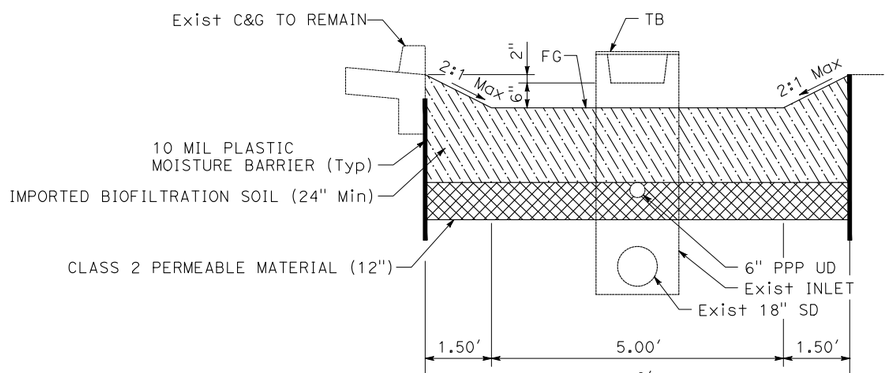
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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404



PLAN



SECTION B-B

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

SUBSURFACE DRAINAGE PLAN

SCALE: 1" = 5'

SB-2

REVISED BY	DATE REVISED
TM	2-21-25

CALCULATED-DESIGNED BY: TRENT MCGOWAN
CHECKED BY: CARMELO CECILIO
CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 02-21-25 | DATE PLOTTED => Apr 29 2025 | TIME PLOTTED => 11:11 am

BORDER LAST REVISED 7/2/2010 | USERNAME => ahernandez | DGN FILE => ie_SB-02.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	35	247

REGISTERED CIVIL ENGINEER — DATE 2-21-25

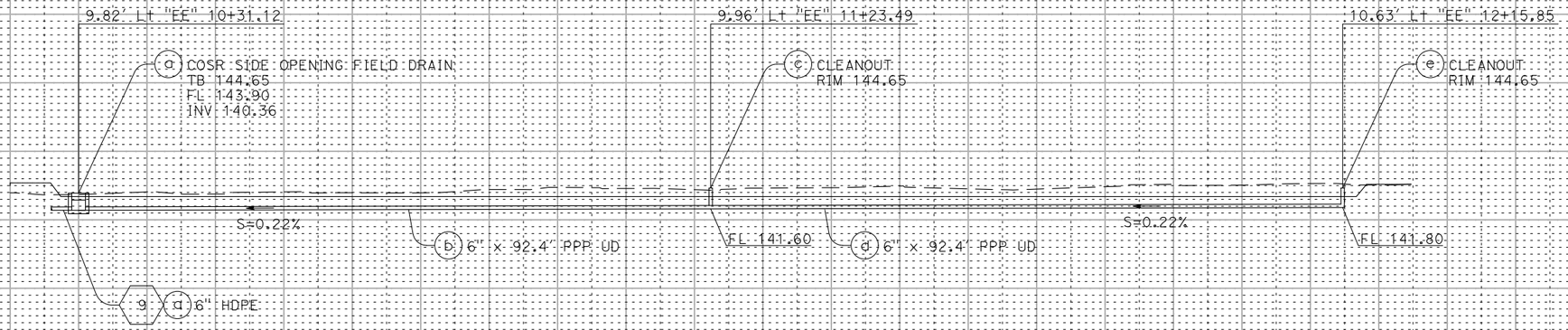
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — J.S. BHANDAL — No. 77430 — Exp. 6-30-25 — CIVIL — STATE OF CALIFORNIA

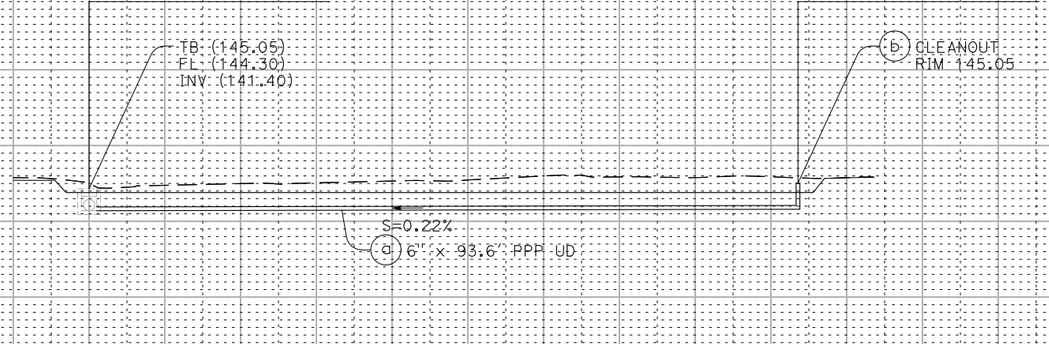
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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404



SUBSURFACE DRAINAGE SYSTEM No. 20



SUBSURFACE DRAINAGE SYSTEM No. 21

SUBSURFACE DRAINAGE PROFILES

SCALE: Horiz 1" = 10'
Vert 1" = 10'

SBP-1

CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL

CALCULATED-DESIGNED BY: TRENT MCGOWAN
CHECKED BY: CARMELO CECILIO

REVISED BY: TM
DATE REVISED: 2-21-25

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION: 02-21-25
DATE PLOTTED => Apr 29 2025
TIME PLOTTED => 11:12 am

BORDER LAST REVISED 7/2/2010

USERNAME => ahernandez
DGN FILE => if_SBP-01.dwg

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0751

PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	36	247

REGISTERED CIVIL ENGINEER — DATE 2-21-25

REGISTERED PROFESSIONAL ENGINEER — J.S. BHANDAL — No. 77430 — Exp. 6-30-25 — CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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BKF ENGINEERS
7901 STONERIDGE DRIVE, SUITE 360
PLEASANTON, CA 94588

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

SUBSURFACE DRAINAGE QUANTITIES

SUBSURFACE PLAN SHEET No.	UNDERDRAIN SYSTEM No. ◇	UNDERDRAIN DRAINAGE UNIT ○	COSR SIDE OPENING FIELD DRAIN EA	6" PIPE CLEANOUT (N) EA	6" PPP UNDERDRAIN LF	IMPORTED BIOFILTRATION SOIL CY	CLASS 2 PERMEABLE MATERIAL CY	ROADWAY EXCAVATION* CY	DESCRIPTION	STATION
SB-1	20	a	1						DROP INLET	9.82′ Lt "EE" 10+31.12
		b			92.4				6" PPP UD	9.82′ Lt "EE" 10+31.12 TO 9.96′ Lt "EE" 11+23.49
		c		1					CLEANOUT	9.96′ Lt "EE" 11+23.49
		d			92.4				6" PPP UD	9.96′ Lt "EE" 11+23.49 TO 10.63′ Lt "EE" 12+15.85
		e		1					CLEANOUT	10.63′ Lt "EE" 12+15.85
SB-1	20					69.9	35	128.2	LBA	10.01′ Lt "EE" 10+27.00 TO 11.41′ Lt "EE" 12+19.34
SB-2	21	a			93.6				6" PPP UD	12.07′ Lt "EE" 12+81.70 TO 14.24′ Lt "EE" 13+75.24
		b		1					CLEANOUT	14.24′ Lt "EE" 13+75.24
SB-2	21					60.2	30.1	110.4	LBA	12.45′ Lt "EE" 12+77.17 TO 14.30′ Lt "EE" 13+78.74
SHEET TOTAL			1	3	278.4	130.1	65.1	238.6		

(N) - NOT A SEPARATE BID ITEM
* - QUANTITY INCLUDED IN EARTHWORK SUMMARY

REVISED BY	DATE REVISED
TM	2-21-25

CALCULATED-DESIGNED BY: TRENT MCGOWAN
CHECKED BY: CARMELO CECILIO

CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

SUBSURFACE DRAINAGE QUANTITIES

SBQ-1

LAST REVISION 02-21-25
DATE PLOTTED => Apr 29 2025
TIME PLOTTED => 11:12 am

BORDER LAST REVISED 7/2/2010

USERNAME => ahernandez
DGN FILE => ih_SBQ-01.dwg

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0751

PROJECT NUMBER & PHASE 04130002131

NOTES:

1. EXISTING UTILITIES SHOWN ARE BASED UPON RECORD INFORMATION AND ARE APPROXIMATE IN LOCATION AND DEPTH. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES THAT MAY BE AFFECTED BY NEW FACILITIES IN THIS CONTRACT AND REPORT POTENTIAL CONFLICTS TO THE ENGINEER PRIOR TO CONSTRUCTION.
2. ALL UTILITIES NOT IDENTIFIED FOR REMOVAL ARE TO REMAIN IN PLACE. CONTRACTOR MUST BE HELD LIABLE FOR ALL DAMAGES INCURRED. CALL SERVICE ALERT (U.S.A) 48 HOURS PRIOR TO EXCAVATION.
3. SIZE AND VOLTAGE SHOWN ON THE PLAN WERE BASED ON AVAILABLE INFORMATION.
4. SEE DRAINAGE PLANS FOR LOCATION OF STORM DRAIN SYSTEM.
5. UNLESS IDENTIFIED "BY OTHERS," UTILITY WORK (RELOCATION, REMOVAL, OR ABANDONMENT) MUST BE PERFORMED BY THE CONTRACTOR.
6. UTILITY OWNERSHIP:

ELECTRICAL - PACIFIC GAS & ELECTRIC (PG&E) (DISTRIBUTION)
GAS - PACIFIC GAS & ELECTRIC (PG&E) (DISTRIBUTION)
SEWER - CITY OF SANTA ROSA (COSR)
STORM DRAIN - CITY OF SANTA ROSA (COSR)
TELEPHONE - AMERICAN TELEPHONE AND TELEGRAPH (AT&T)
TELECOMMUNICATIONS - COMCAST
TELECOMMUNICATIONS - SONOMA BROADBAND
WATER - CITY OF SANTA ROSA (COSR)

ABBREVIATIONS:

JT	JOINT TRENCH
KV	KILOVOLT
PH	POTHOLE
TC	TELECOMMUNICATIONS
UG	UNDERGROUND

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	37	247

REGISTERED CIVIL ENGINEER — DATE: 2-21-25

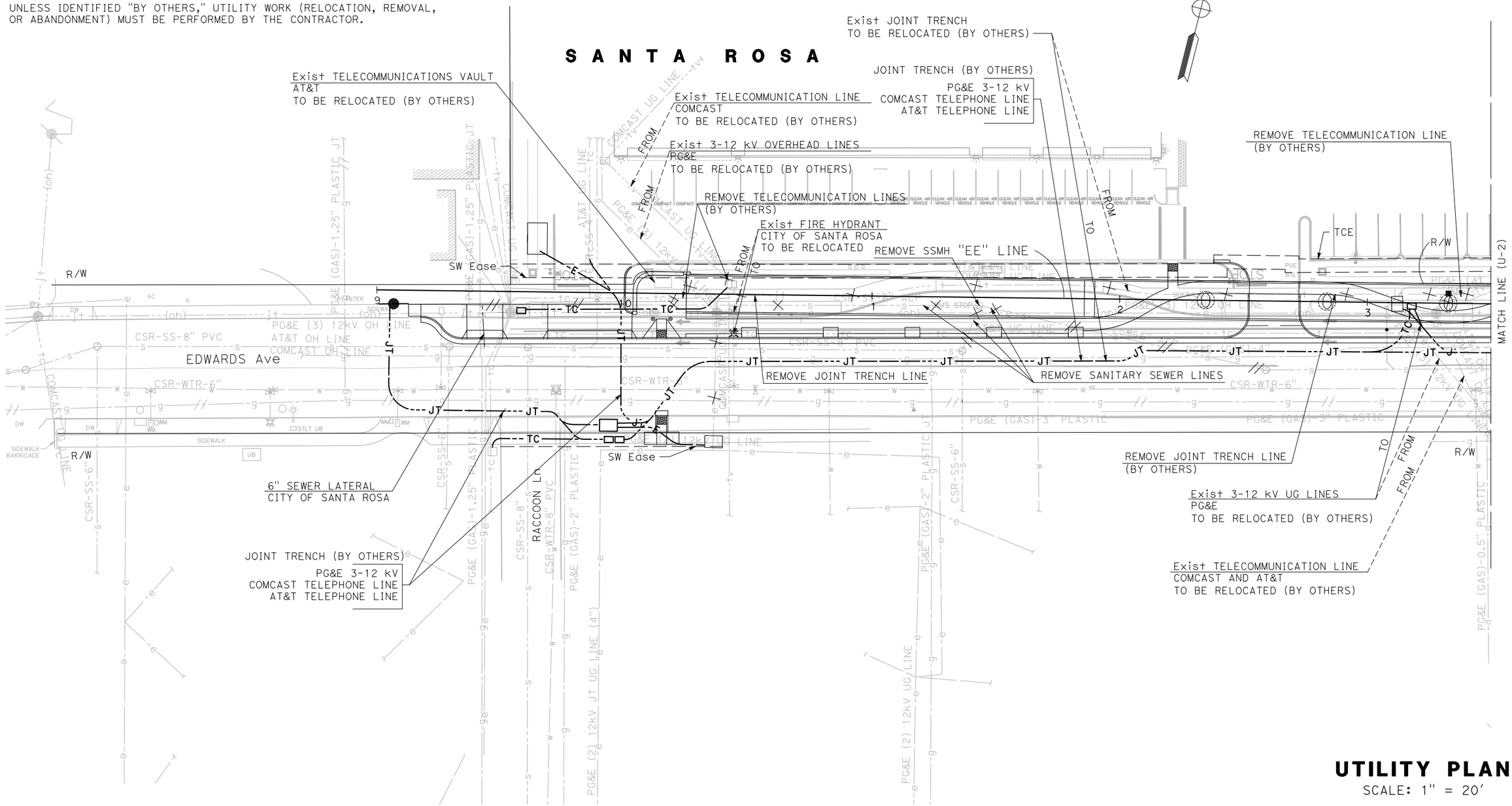
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — J.S. BHANDAL — No. 77430 — Exp. 6-30-25 — CIVIL — STATE OF CALIFORNIA

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BKF ENGINEERS
7901 STONERIDGE DRIVE, SUITE 360
PLEASANTON, CA 94588

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404



THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1" = 20'

U-1

REVISED BY	DATE REVISED
TM	2-21-25

TRENT MCGOWAN — CARMELO CECILIO — CALCULATED-DESIGNED BY — CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR — JAGGI S. BHANDAL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 02-21-25 — DATE PLOTTED => Apr 29 2025 — TIME PLOTTED => 11:12 am

BORDER LAST REVISED 7/2/2010 — USERNAME => ahernandez — DGN FILE => ka_U-01.dwg — RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 — UNIT 0751 — PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	38	247

REGISTERED CIVIL ENGINEER — DATE: 2-21-25

REGISTERED PROFESSIONAL ENGINEER — J.S. BHANDAL — No. 77430 — Exp. 6-30-25 — CIVIL — STATE OF CALIFORNIA

February 21, 2025
PLANS APPROVAL DATE

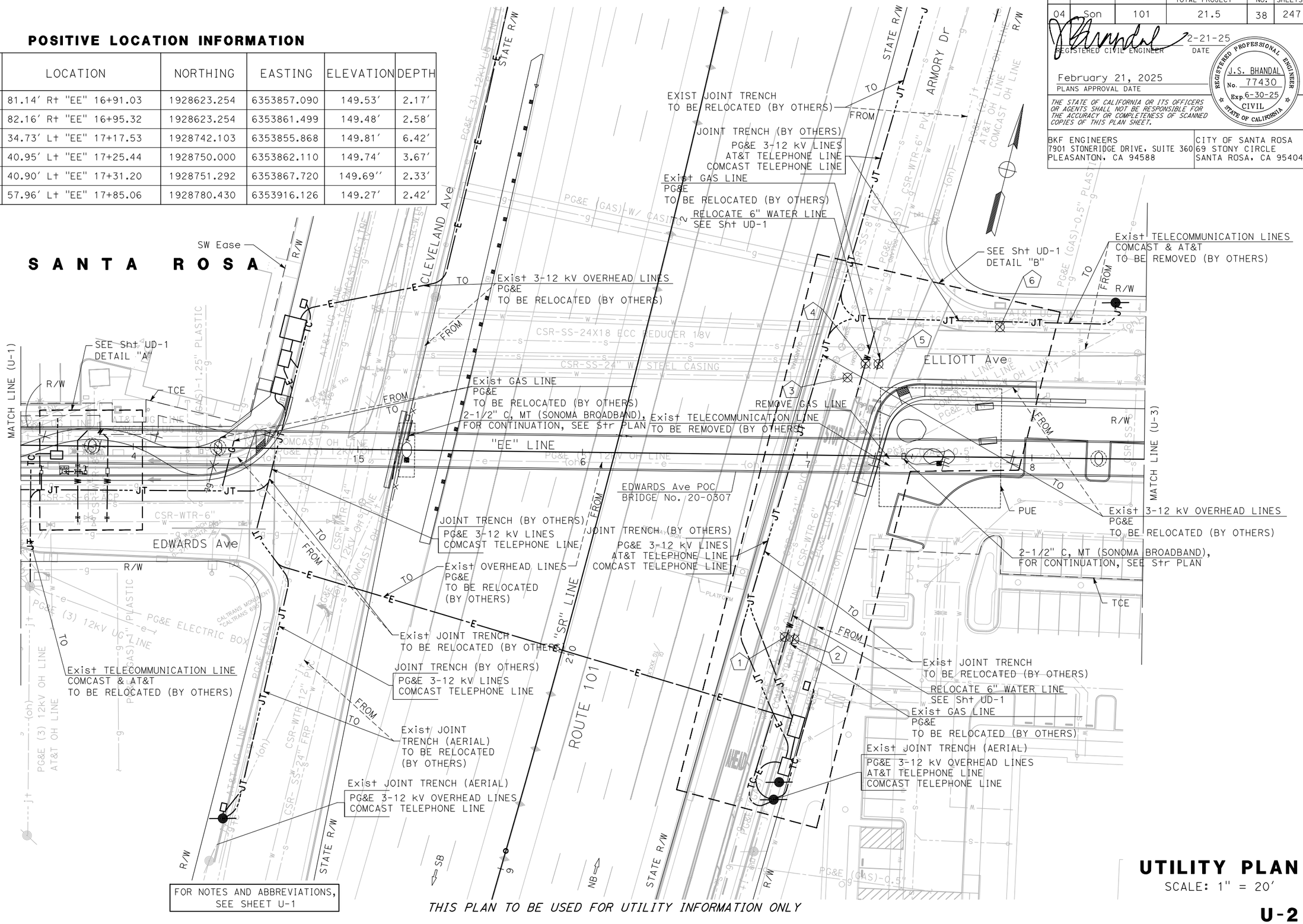
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PLEASANTON, CA 94588

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

POSITIVE LOCATION INFORMATION

No. ⬠	UTILITY	LOCATION	NORTHING	EASTING	ELEVATION	DEPTH
1	WATER	81.14′ Rt "EE" 16+91.03	1928623.254	6353857.090	149.53′	2.17′
2	GAS	82.16′ Rt "EE" 16+95.32	1928623.254	6353861.499	149.48′	2.58′
3	WATER	34.73′ Lt "EE" 17+17.53	1928742.103	6353855.868	149.81′	6.42′
4	WATER	40.95′ Lt "EE" 17+25.44	1928750.000	6353862.110	149.74′	3.67′
5	GAS	40.90′ Lt "EE" 17+31.20	1928751.292	6353867.720	149.69′′	2.33′
6	WATER	57.96′ Lt "EE" 17+85.06	1928780.430	6353916.126	149.27′	2.42′



THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1" = 20′

U-2

TM	2-21-25	CALCULATED-DESIGNED BY	
TRENT MCGOWAN	CARMELO CECILIO	CHECKED BY	
REVISED BY	DATE REVISED		

CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 02-21-25 | DATE PLOTTED => Jun 16 2025 | TIME PLOTTED => 4:59 pm

BORDER LAST REVISED 7/2/2010 | USERNAME => ahernandez | DGN FILE => ka_U-02.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	39	247

REGISTERED CIVIL ENGINEER — DATE 2-21-25

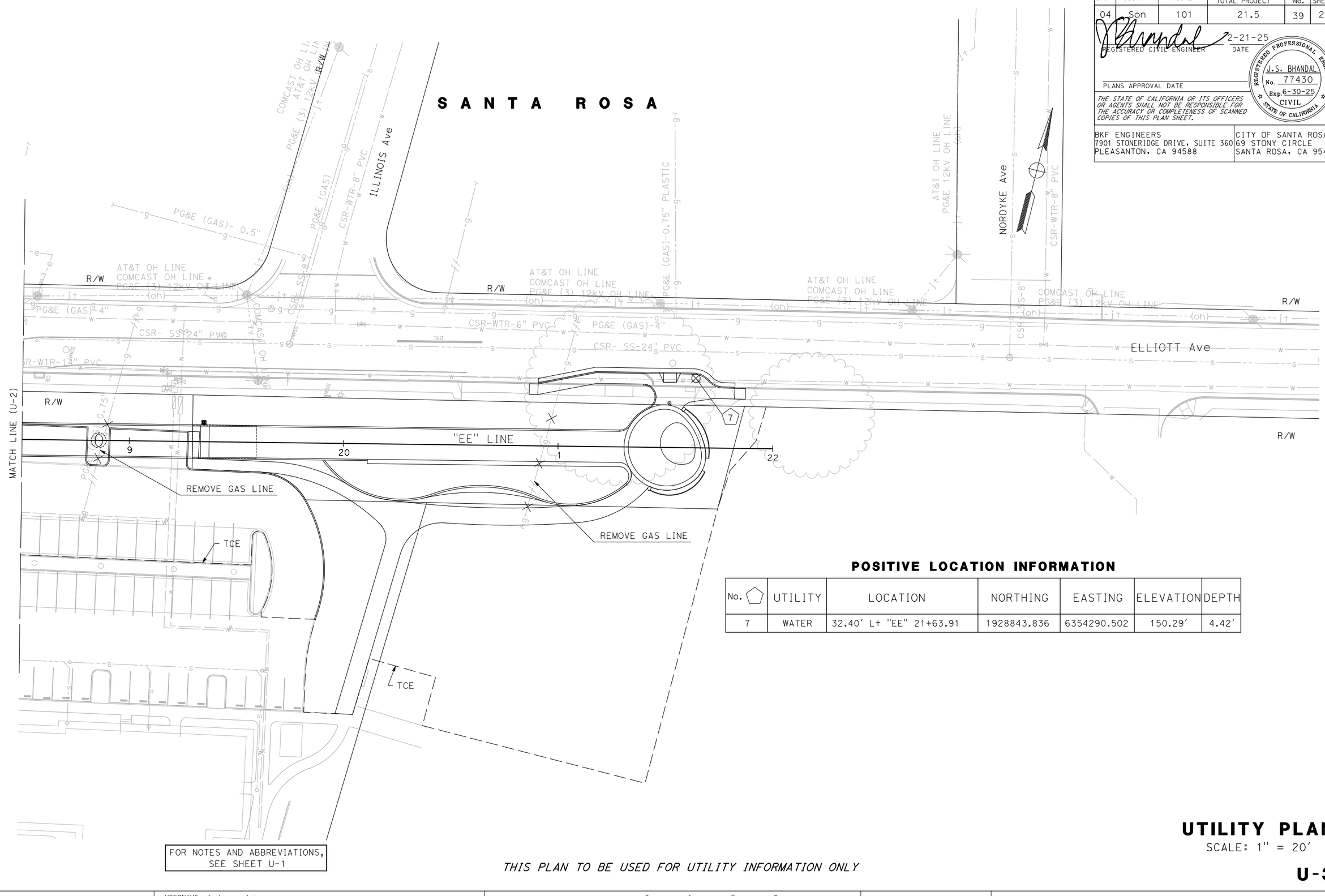
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — J.S. BHANDAL — No. 77430 — Exp. 6-30-25 — CIVIL — STATE OF CALIFORNIA

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BKF ENGINEERS
7901 STONERIDGE DRIVE, SUITE 360
PLEASANTON, CA 94588

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404



FOR NOTES AND ABBREVIATIONS, SEE SHEET U-1

POSITIVE LOCATION INFORMATION

No. ⬠	UTILITY	LOCATION	NORTHING	EASTING	ELEVATION	DEPTH
7	WATER	32.40′ L+ "EE" 21+63.91	1928843.836	6354290.502	150.29′	4.42′

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1" = 20′

U-3

LAST REVISION 02-21-25 | DATE PLOTTED => Apr 29 2025 | TIME PLOTTED => 11:13 am

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL

REVISED BY: TM — DATE REVISED: 2-21-25

CALCULATED-DESIGNED BY: TRENT MCGOWAN

CHECKED BY: CARMELO CECILIO

BORDER LAST REVISED 7/2/2010 | USERNAME => ahernandez | DGN FILE => ka_U-03.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	40	247

REGISTERED CIVIL ENGINEER — DATE 2-21-25

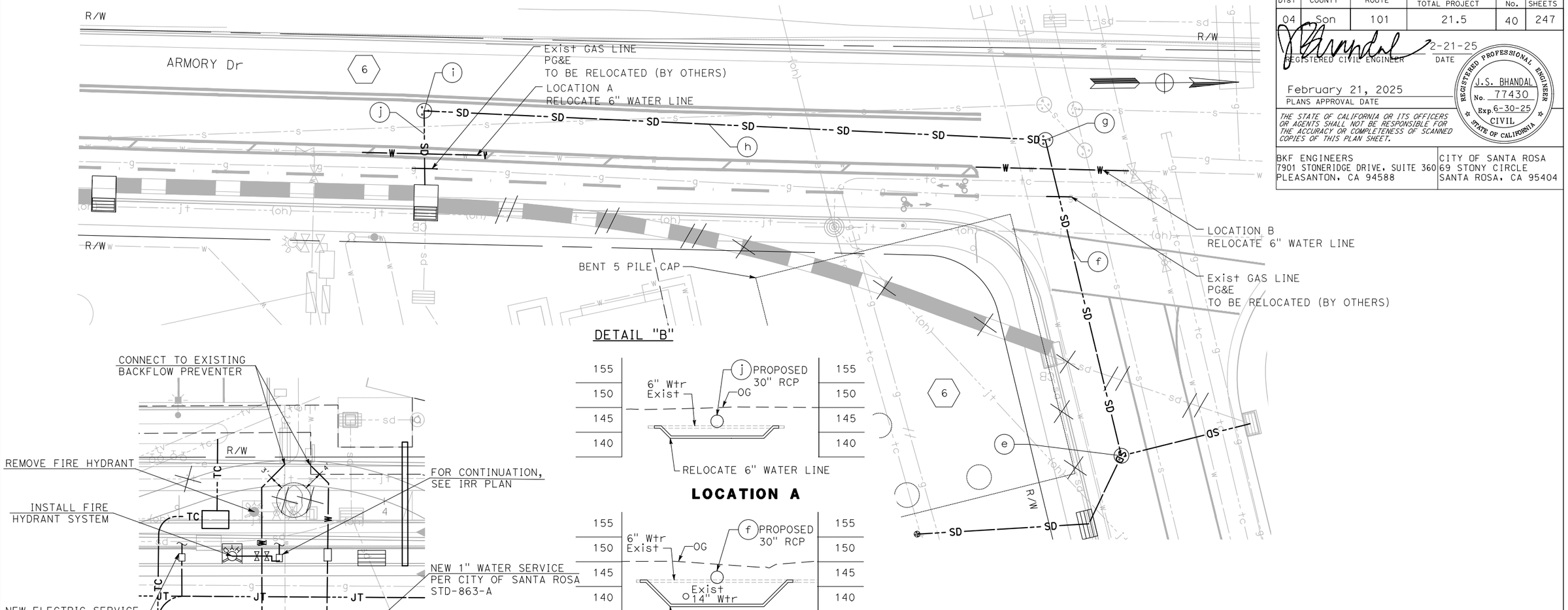
REGISTERED PROFESSIONAL ENGINEER — J.S. BHANDAL — No. 77430 — Exp. 6-30-25 — CIVIL — STATE OF CALIFORNIA

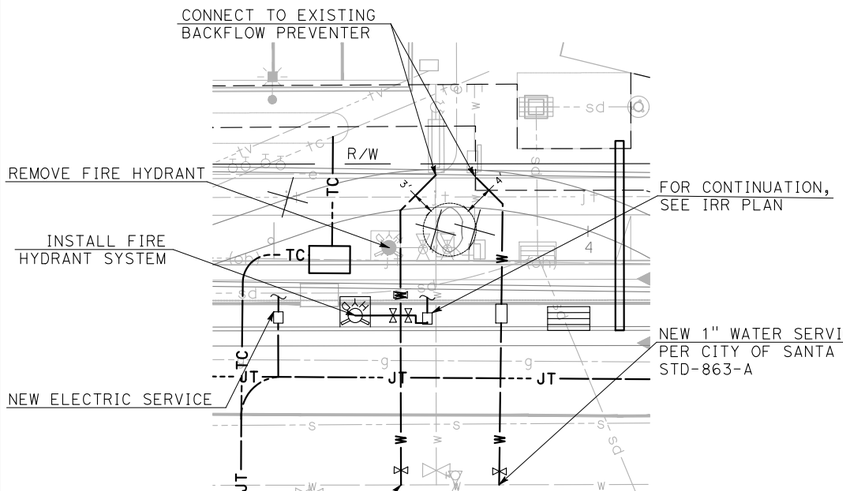
February 21, 2025
PLANS APPROVAL DATE

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.

BKF ENGINEERS
7901 STONERIDGE DRIVE, SUITE 360
PLEASANTON, CA 94588

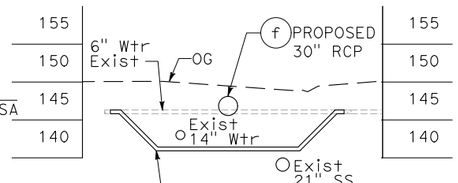
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404



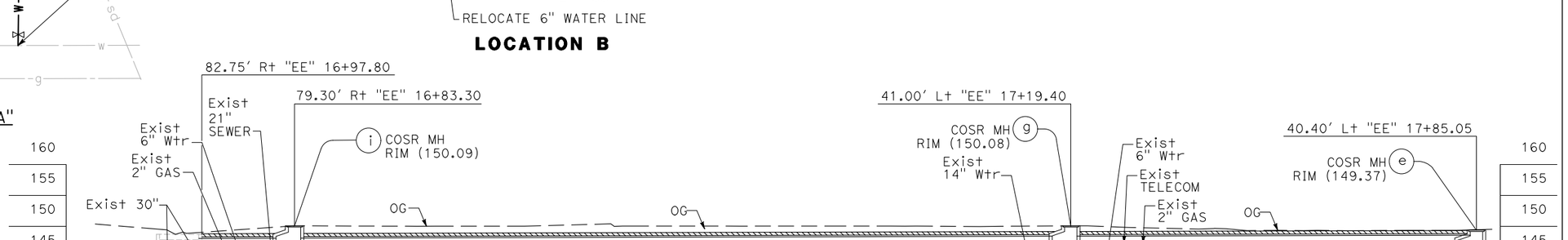


DETAIL "A"

LOCATION A



LOCATION B



DRAINAGE SYSTEM No. 6

NOTE:

DRAINAGE PROFILE IS SHOWN FOR REFERENCE. IF THERE IS A CONFLICT BETWEEN PROPOSED UTILITY RELOCATIONS AND STORM DRAIN RELOCATIONS ON THIS SHEET, USE DRAINAGE PLAN AND PROFILES.

UTILITY DETAILS

SCALE: Horiz 1" = 10'
Vert 1" = 10'

UD-1

REVISED BY	DATE REVISED
TM	2-21-25

TRENT MCGOWAN — CALCULATED-DESIGNED BY
CARMELO CECILIO — CHECKED BY

JAGGI S. BHANDAL — CONSULTANT FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION 02-21-25 — DATE PLOTTED => Jun 13 2025 — TIME PLOTTED => 11:41 am

BORDER LAST REVISED 7/2/2010 | USERNAME => ahernandez | DGN FILE => kc_UD-01.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	41	247

REGISTERED CIVIL ENGINEER — DATE 2-21-25

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — J.S. BHANDAL — No. 77430 — Exp. 6-30-25 — CIVIL — STATE OF CALIFORNIA

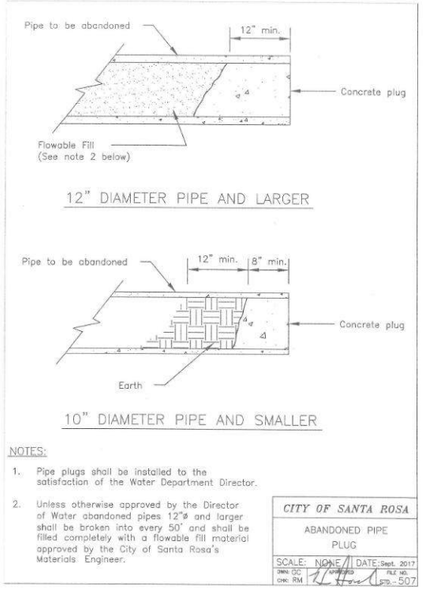
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

BKF ENGINEERS
7901 STONERIDGE DRIVE, SUITE 360
PLEASANTON, CA 94588

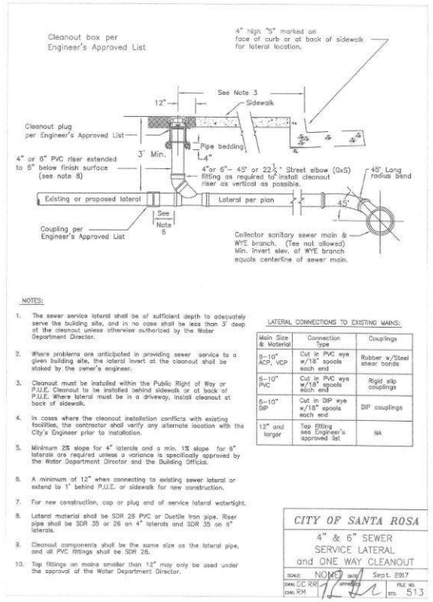
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

REVISED BY	DATE REVISED
TM	2-21-25

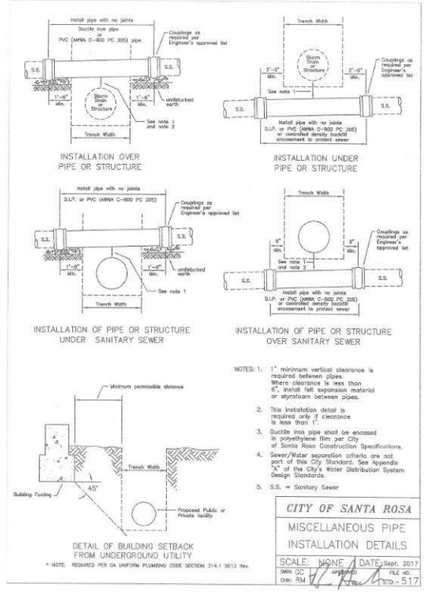
CALCULATED-DESIGNED BY: TRENT MCGOWAN
CHECKED BY: CARMELO CECILIO
CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION



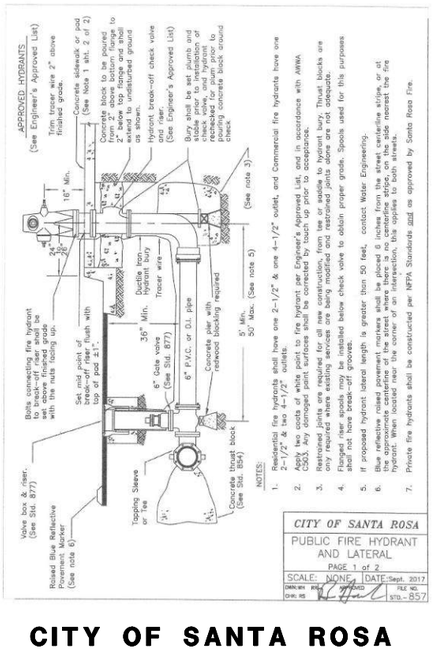
CITY OF SANTA ROSA
ABANDONED PIPE PLUG



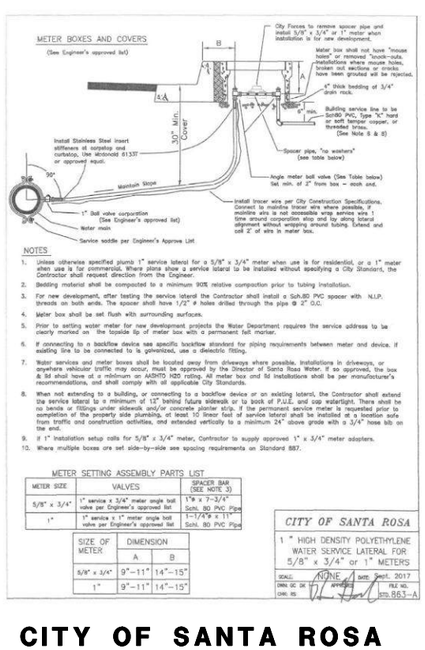
CITY OF SANTA ROSA
SERVICE LATERAL



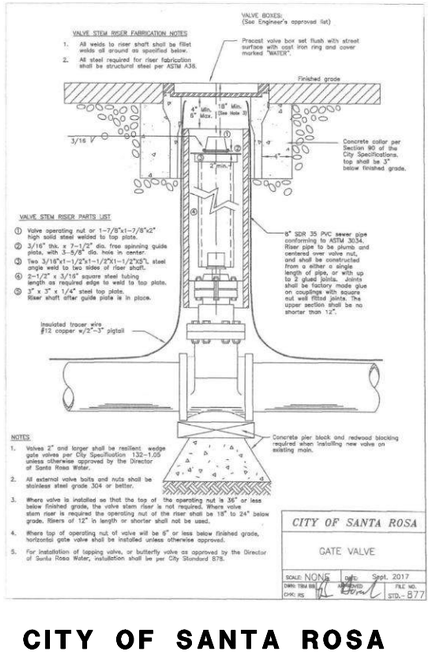
CITY OF SANTA ROSA
PIPE INSTALLATIONS



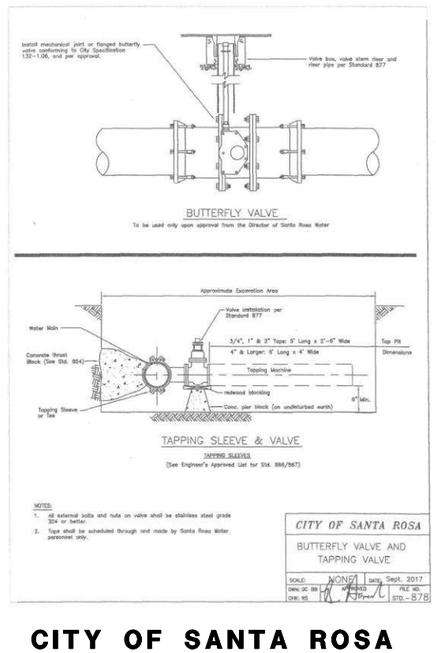
CITY OF SANTA ROSA
FIRE HYDRANT AND LATERAL



CITY OF SANTA ROSA
1" HDPE WATER SERVICE LATERAL



CITY OF SANTA ROSA
GATE VALVE



CITY OF SANTA ROSA
BUTTERFLY VALVE AND TAPPING VALVE

UTILITY DETAILS
NO SCALE

UD-2

LAST REVISION: DATE PLOTTED => Apr 29 2025
02-21-25 TIME PLOTTED => 11:15 am

BORDER LAST REVISED 7/2/2010
USERNAME => ahernandez
DGN FILE => kc_UD-02.dwg
RELATIVE BORDER SCALE IS IN INCHES
0 1 2 3
UNIT 0751
PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	42	247

REGISTERED CIVIL ENGINEER — DATE: 2-21-25

REGISTERED PROFESSIONAL ENGINEER — J.S. BHANDAL — No. 77430 — Exp. 6-30-25 — 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.

BKF ENGINEERS
7901 STONERIDGE DRIVE, SUITE 360
PLEASANTON, CA 94588

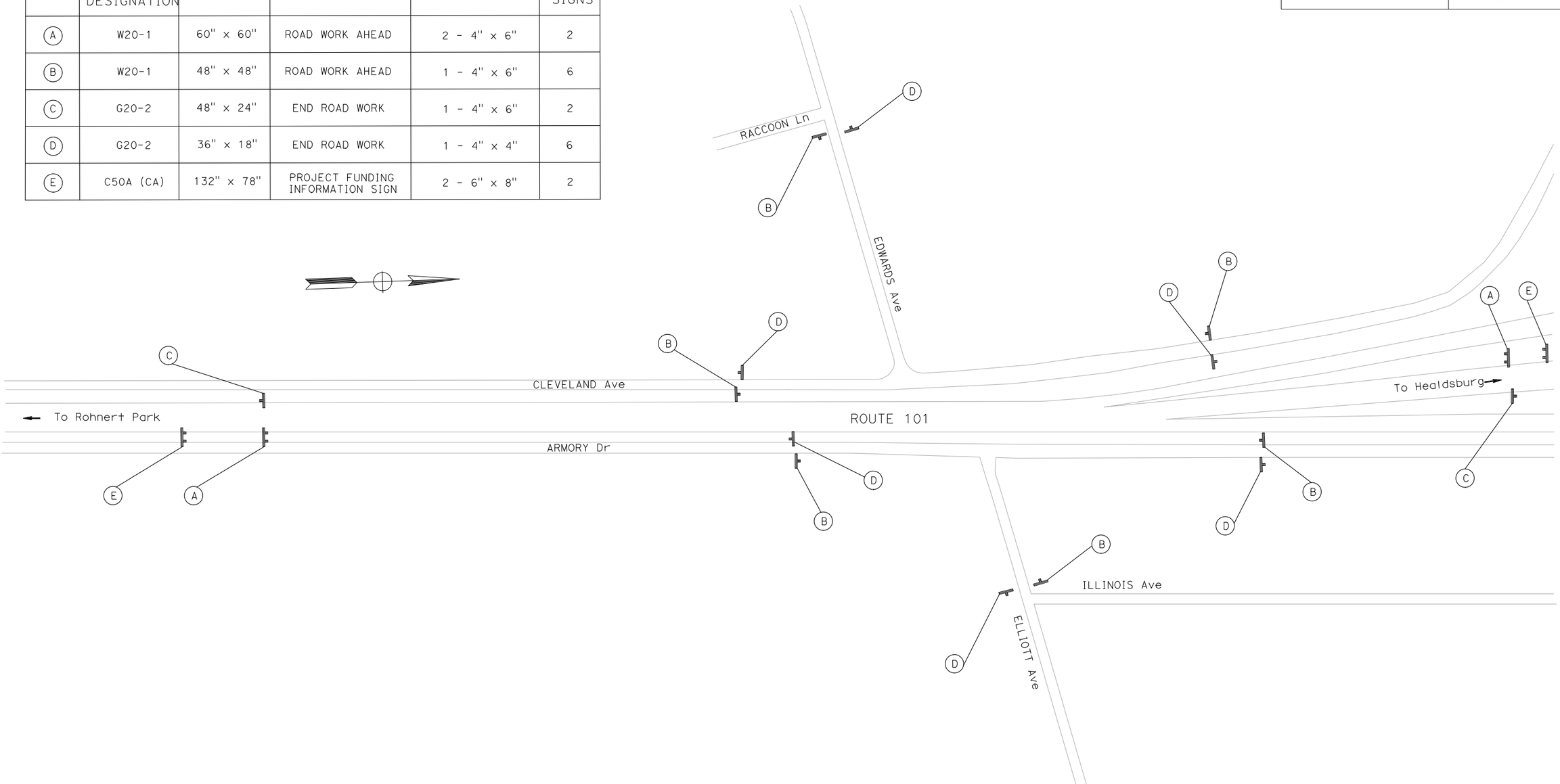
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

NOTE:

1. LOCATIONS OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. FOR ADDITIONAL CONSTRUCTION AREA SIGNS, SEE SC-Shts.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN DESIGNATION	PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
A	W20-1	60" x 60"	ROAD WORK AHEAD	2 - 4" x 6"	2
B	W20-1	48" x 48"	ROAD WORK AHEAD	1 - 4" x 6"	6
C	G20-2	48" x 24"	END ROAD WORK	1 - 4" x 6"	2
D	G20-2	36" x 18"	END ROAD WORK	1 - 4" x 4"	6
E	C50A (CA)	132" x 78"	PROJECT FUNDING INFORMATION SIGN	2 - 6" x 8"	2



CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL

CALCULATED-DESIGNED BY: STEVEN DAUTERMAN

CHECKED BY: CHEUNG WONG

REVISED BY: SD — DATE REVISED: 2-21-25

LAST REVISION 02-21-25 — DATE PLOTTED => Apr 29 2025 — TIME PLOTTED => 11:15 am

BORDER LAST REVISED 7/2/2010 | USERNAME => ahernandez | DGN FILE => ia_CS-01.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	43	247

Dalene J. Whitlock — REGISTERED CIVIL ENGINEER — 2/21/25 DATE

DALENE J. WHITLOCK No. 38942 Exp. 3/31/25 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

PLANS APPROVAL DATE

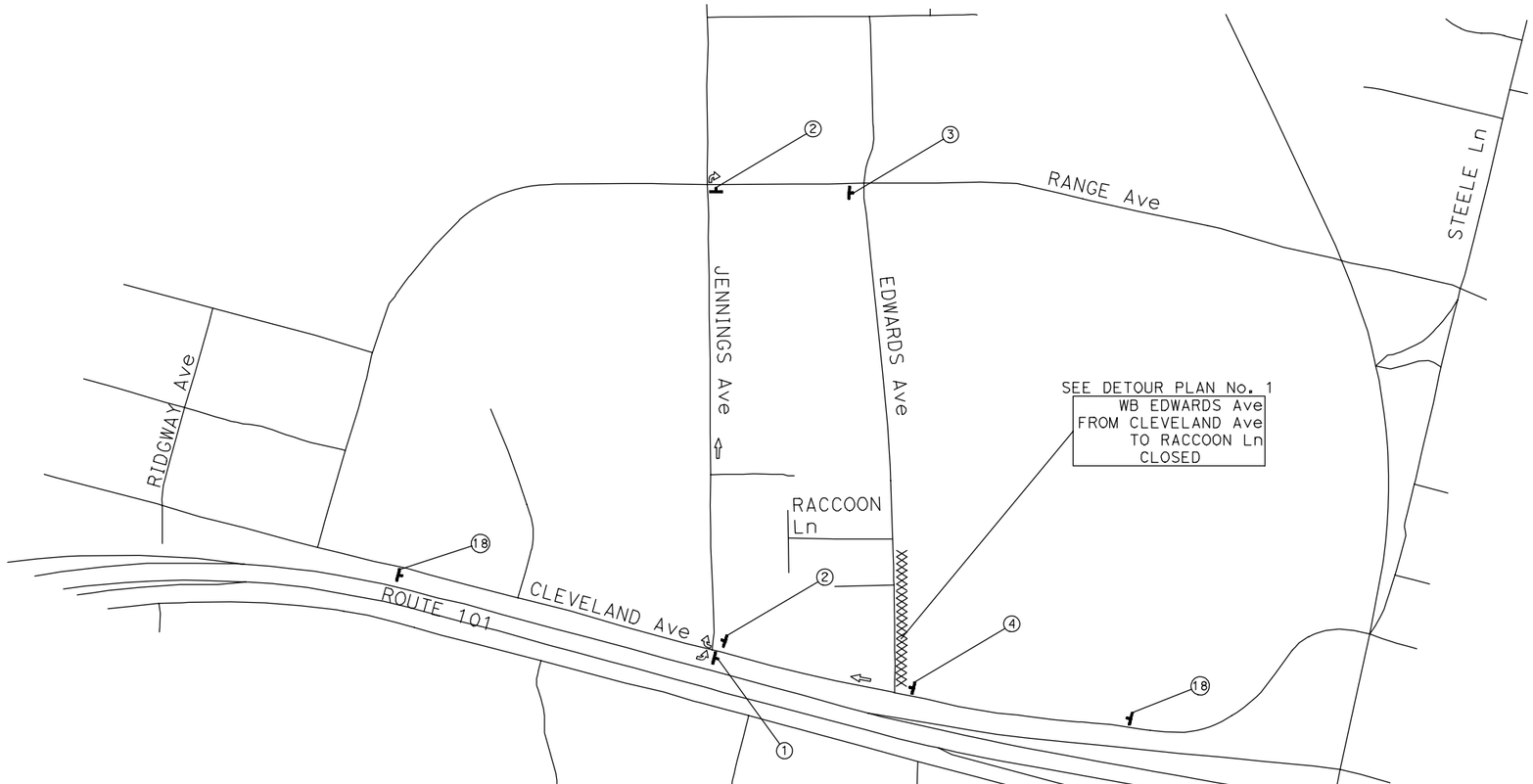
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

W-TRANS
490 MENDOCINO AVE, SUITE 201
SANTA ROSA, CA 95401

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

LEGEND:

(#) CONSTRUCTION AREA SIGN No.
WORK ZONE
XXXXXXX ROAD CLOSURE



DETOUR PLAN No. 1

FROM NB/SB CLEVELAND Ave
TO EB EDWARDS Ave

- NB/SB CLEVELAND Ave
- WB JENNINGS Ave
- NB RANGE Ave
- EB EDWARDS Ave

MOTORIST INFORMATION PLAN

STAGES 1 & 2

NO SCALE

MI-1

APPROVED FOR MOTORIST INFORMATION WORK ONLY

REVISED BY	DATE REVISED
NICHOLAS BRUNETTO	
STEVEN FITZSIMONS	

CALCULATED–DESIGNED BY
CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR
JAGGI S. BHANDAL

STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 06-28-24
DATE PLOTTED => 30 January 2025
TIME PLOTTED => 13:21

BORDER LAST REVISED 7/2/2010

USERNAME =>hlei
DGN FILE => 04130002131lb_mi-01.dwg

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0751

PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	44	247

REGISTERED CIVIL ENGINEER — 2/21/25 DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DALENE J. WHITLOCK — No. 38942 — Exp. 3/31/25 — CIVIL — STATE OF CALIFORNIA

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W-TRANS
490 MENDOCINO AVE, SUITE 201
SANTA ROSA, CA 95401

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

LEGEND:

(#) CONSTRUCTION AREA SIGN No.

WORK ZONE

DETOUR PLAN No. 2

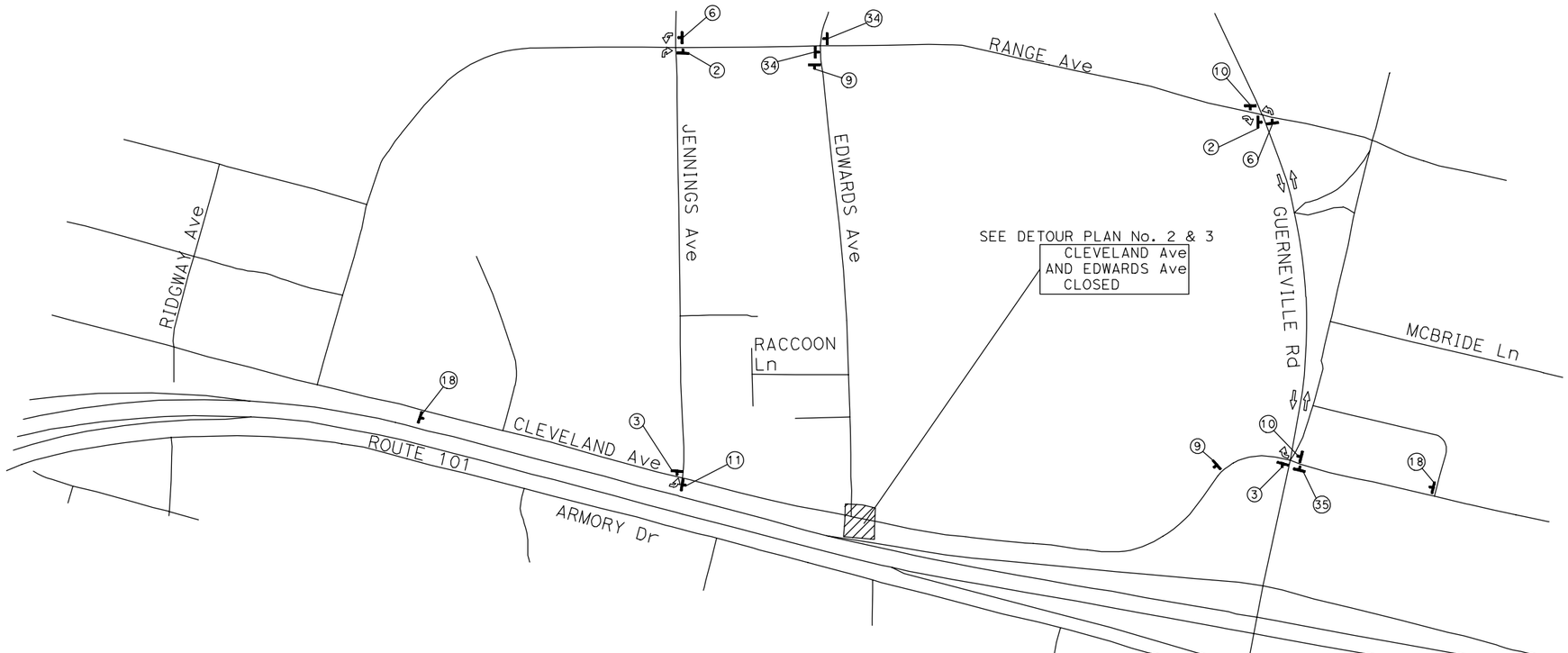
FROM NB CLEVELAND Ave
TO EB GUERNEVILLE Rd

- NB CLEVELAND Ave
- WB JENNINGS Ave
- NB RANGE Ave
- EB GUERNEVILLE Ave

DETOUR PLAN No. 3

FROM SB CLEVELAND Ave
TO EB JENNINGS Ave

- SB CLEVELAND Ave
- WB GUERNVILLE Rd
- SB RANGE Ave
- EB JENNINGS Ave



MOTORIST INFORMATION PLAN

STAGE 3

NO SCALE

MI-2

APPROVED FOR MOTORIST INFORMATION WORK ONLY

REVISED BY | DATE REVISED
NICHOLAS BRUNETTO | STEVEN FITZSIMONS
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION 06-28-24 | DATE PLOTTED => 30 January 2025 | TIME PLOTTED => 13:21

BORDER LAST REVISED 7/2/2010 | USERNAME => wandrews | DGN FILE => 041300021311b_mi-02.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	45	247

REGISTERED CIVIL ENGINEER — 2/21/25 DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DALENE J. WHITLOCK — No. 38942 — Exp. 3/31/25 — CIVIL — STATE OF CALIFORNIA

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.

W-TRANS
490 MENDOCINO AVE, SUITE 201
SANTA ROSA, CA 95401

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

LEGEND:

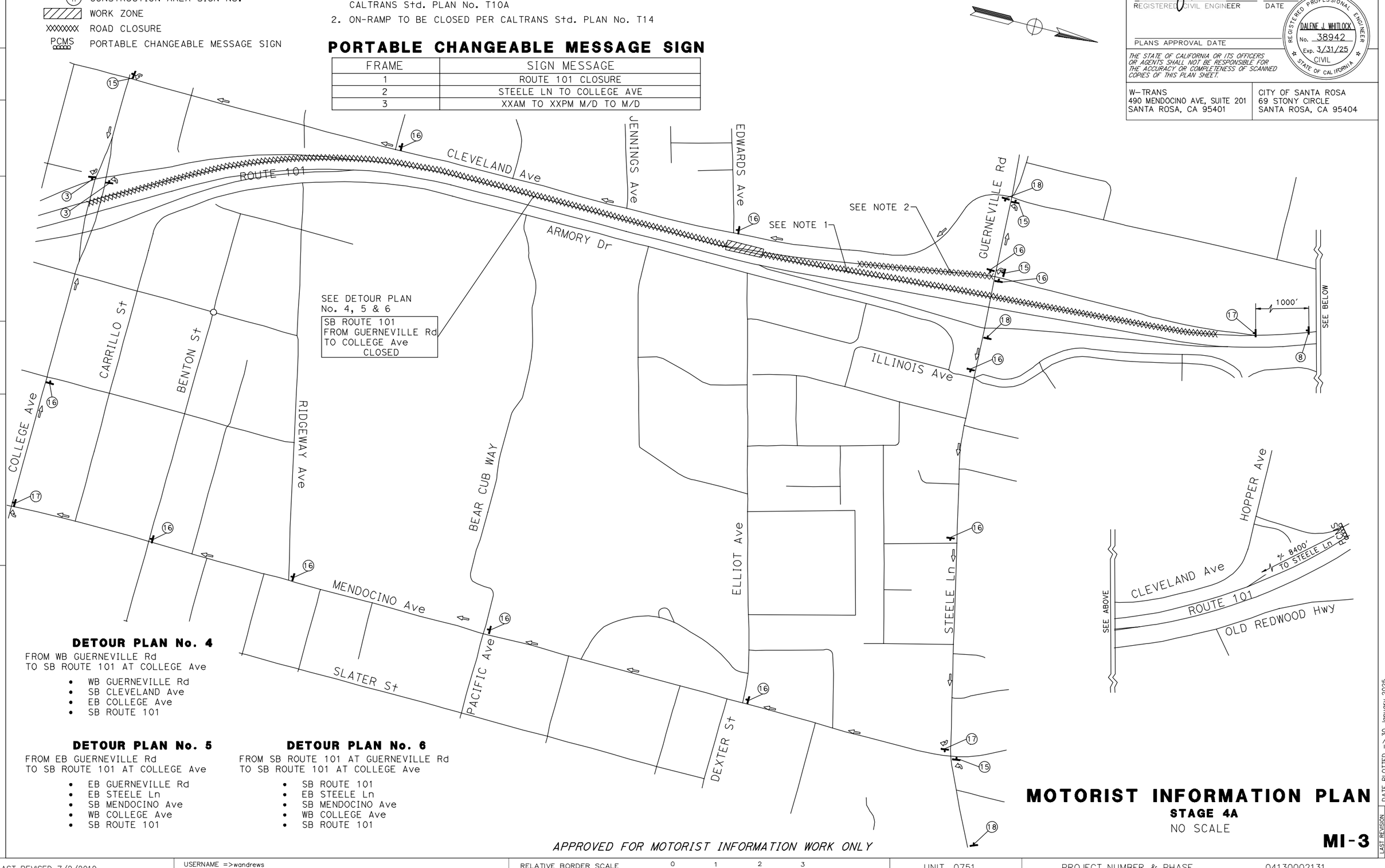
- (#) CONSTRUCTION AREA SIGN No.
- WORK ZONE
- ROAD CLOSURE
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN

NOTES:

1. ROUTE 101 TO BE CLOSED IN THE SB DIRECTION PER CALTRANS Std. PLAN No. T10A
2. ON-RAMP TO BE CLOSED PER CALTRANS Std. PLAN No. T14

PORTABLE CHANGEABLE MESSAGE SIGN

FRAME	SIGN MESSAGE
1	ROUTE 101 CLOSURE
2	STEELE LN TO COLLEGE AVE
3	XXAM TO XXPM M/D TO M/D



DETOUR PLAN No. 4

FROM WB GUERNEVILLE Rd
TO SB ROUTE 101 AT COLLEGE Ave

- WB GUERNEVILLE Rd
- SB CLEVELAND Ave
- EB COLLEGE Ave
- SB ROUTE 101

DETOUR PLAN No. 5

FROM EB GUERNEVILLE Rd
TO SB ROUTE 101 AT COLLEGE Ave

- EB GUERNEVILLE Rd
- EB STEELE Ln
- SB MENDOCINO Ave
- WB COLLEGE Ave
- SB ROUTE 101

DETOUR PLAN No. 6

FROM SB ROUTE 101 AT GUERNEVILLE Rd
TO SB ROUTE 101 AT COLLEGE Ave

- SB ROUTE 101
- EB STEELE Ln
- SB MENDOCINO Ave
- WB COLLEGE Ave
- SB ROUTE 101

APPROVED FOR MOTORIST INFORMATION WORK ONLY

MOTORIST INFORMATION PLAN

STAGE 4A

NO SCALE

MI-3

REVISED BY	DATE REVISED
NICHOLAS BRUNETTO	STEVEN FITZSIMONS

CALCULATED-DESIGNED BY

CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 06-28-24 — DATE PLOTTED => 30 January 2025 — TIME PLOTTED => 13:21

BORDER LAST REVISED 7/2/2010 | USERNAME =>wandrews | DGN FILE => 04130002131lb_mi-03.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	46	247

Dalene J. Whitlock — REGISTERED CIVIL ENGINEER — 2/21/25 DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DALENE J. WHITLOCK — No. 38942 — Exp. 3/31/25 — CIVIL — STATE OF CALIFORNIA

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.

W-TRANS
490 MENDOCINO AVE, SUITE 201
SANTA ROSA, CA 95401

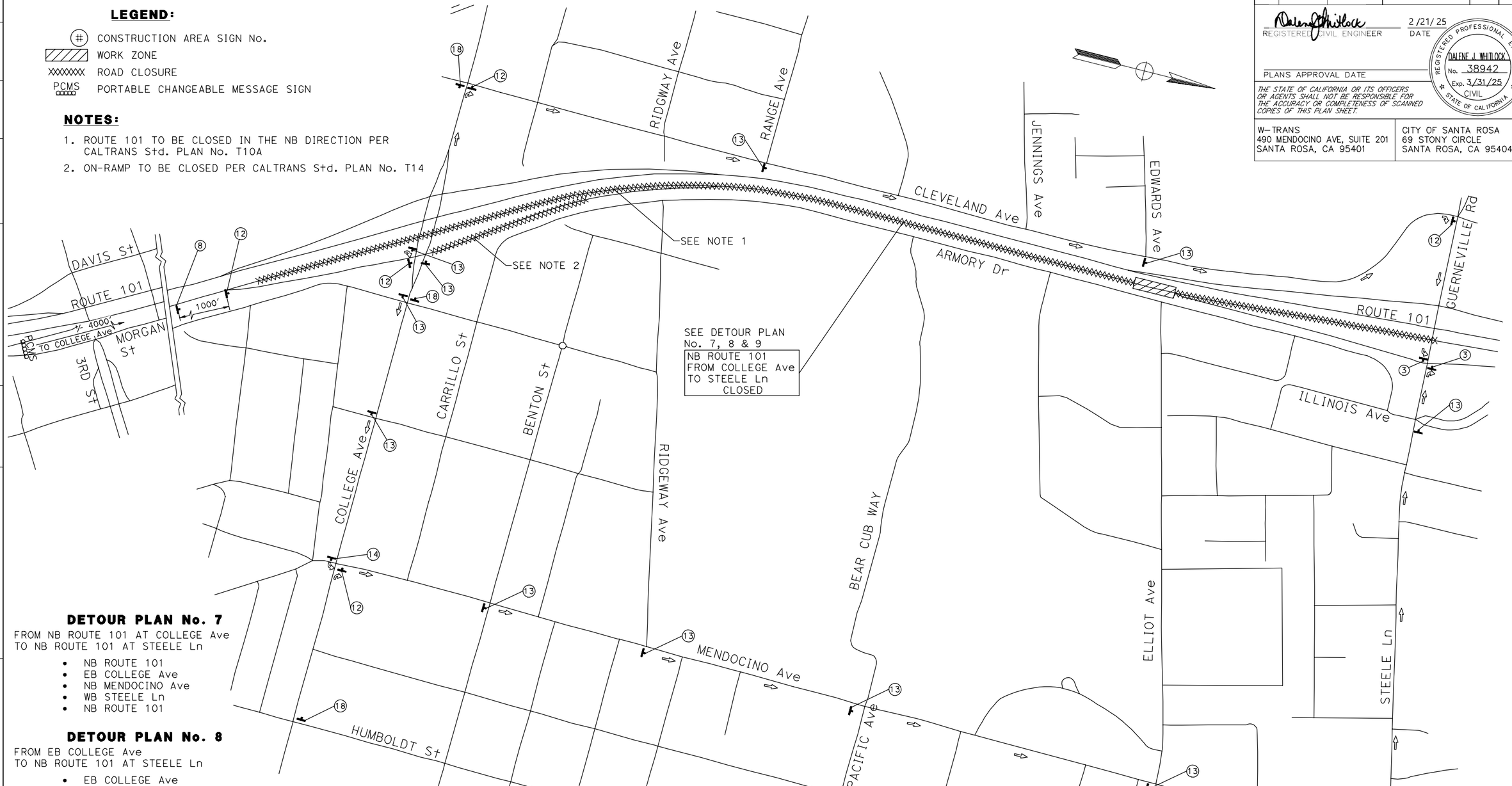
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

LEGEND:

(#) CONSTRUCTION AREA SIGN No.
WORK ZONE
XXXXXXX ROAD CLOSURE
PCMS PORTABLE CHANGEABLE MESSAGE SIGN

NOTES:

1. ROUTE 101 TO BE CLOSED IN THE NB DIRECTION PER CALTRANS Std. PLAN No. T10A
2. ON-RAMP TO BE CLOSED PER CALTRANS Std. PLAN No. T14



DETOUR PLAN No. 7

FROM NB ROUTE 101 AT COLLEGE Ave
TO NB ROUTE 101 AT STEELE Ln

- NB ROUTE 101
- EB COLLEGE Ave
- NB MENDOCINO Ave
- WB STEELE Ln
- NB ROUTE 101

DETOUR PLAN No. 8

FROM EB COLLEGE Ave
TO NB ROUTE 101 AT STEELE Ln

- EB COLLEGE Ave
- NB MENDOCINO Ave
- WB STEELE Ln
- NB ROUTE 101

DETOUR PLAN No. 9

FROM WB COLLEGE Ave
TO NB ROUTE 101 AT STEELE Ln

- WB COLLEGE Ave
- NB CLEVELAND Ave
- EB GUERNEVILLE Rd
- EB STEELE Ln
- NB ROUTE 101

PORTABLE CHANGEABLE MESSAGE SIGN

FRAME	SIGN MESSAGE
1	ROUTE 101 CLOSURE
2	COLLEGE AVE TO STEELE LN
3	XXAM TO XXPM M/D TO M/D

MOTORIST INFORMATION PLAN

STAGE 4B

NO SCALE

MI-4

APPROVED FOR MOTORIST INFORMATION WORK ONLY

REVISED BY | DATE REVISED
NICHOLAS BRUNETTO | STEVEN FITZSIMONS
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 06-28-24
DATE PLOTTED => 30 January 2025
TIME PLOTTED => 13:21

BORDER LAST REVISED 7/2/2010
USERNAME => wandrews
DGN FILE => 04130002131lb_mi-04.dwg
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0751
PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	47	247

Dalene J. Whitlock 2/21/25
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DALENE J. WHITLOCK — No. 38942 — Exp. 3/31/25 — CIVIL — STATE OF CALIFORNIA

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.

W-TRANS
490 MENDOCINO AVE, SUITE 201
SANTA ROSA, CA 95401

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

REVISED BY | DATE REVISED
NICHOLAS BRUNETTO | STEVEN FITZSIMONS
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL

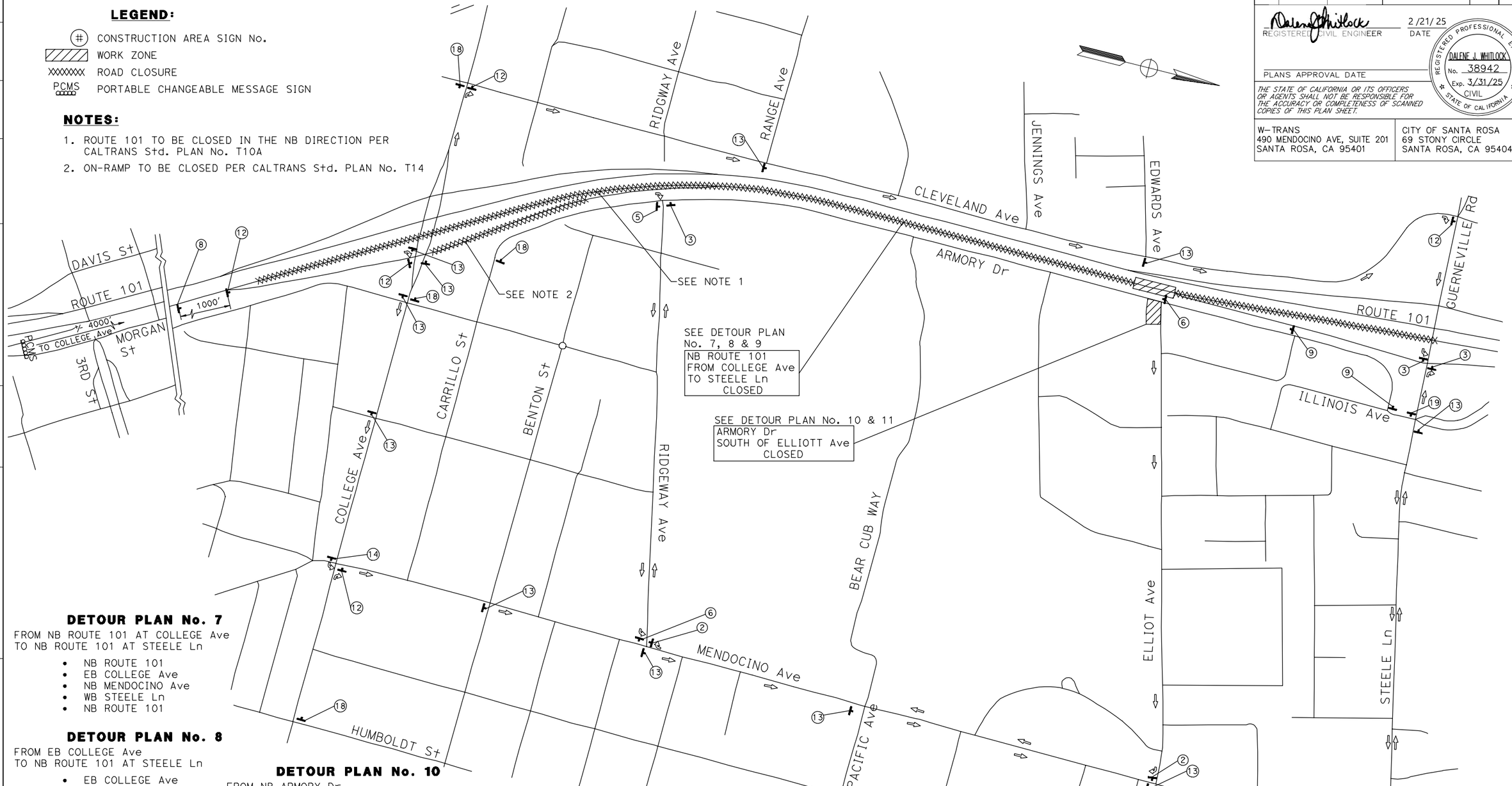
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LEGEND:

- (#) CONSTRUCTION AREA SIGN No.
- WORK ZONE
- XXXXXXX ROAD CLOSURE
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN

NOTES:

1. ROUTE 101 TO BE CLOSED IN THE NB DIRECTION PER CALTRANS Std. PLAN No. T10A
2. ON-RAMP TO BE CLOSED PER CALTRANS Std. PLAN No. T14



DETOUR PLAN No. 7

FROM NB ROUTE 101 AT COLLEGE Ave
TO NB ROUTE 101 AT STEELE Ln

- NB ROUTE 101
- EB COLLEGE Ave
- NB MENDOCINO Ave
- WB STEELE Ln
- NB ROUTE 101

DETOUR PLAN No. 8

FROM EB COLLEGE Ave
TO NB ROUTE 101 AT STEELE Ln

- EB COLLEGE Ave
- NB MENDOCINO Ave
- WB STEELE Ln
- NB ROUTE 101

DETOUR PLAN No. 9

FROM WB COLLEGE Ave
TO NB ROUTE 101 AT STEELE Ln

- WB COLLEGE Ave
- NB CLEVELAND Ave
- EB GUERNEVILLE Rd
- EB STEELE Ln
- NB ROUTE 101

DETOUR PLAN No. 10

FROM NB ARMORY Dr
TO WB ELLIOTT Ave

- NB ARMORY Dr
- EB RIDGEWAY Ave
- NB MENDOCINO Ave
- WB ELLIOTT Ave

DETOUR PLAN No. 11

FROM SB ARMORY Dr
TO WB RIDGEWAY Ave

- SB ARMORY Dr
- EB ELLIOTT Ave
- SB MENDOCINO Ave
- WB RIDGEWAY Ave

PORTABLE CHANGEABLE MESSAGE SIGN

FRAME	SIGN MESSAGE
1	ROUTE 101 CLOSURE
2	COLLEGE AVE TO STEELE LN
3	XXAM TO XXPM M/D TO M/D

APPROVED FOR MOTORIST INFORMATION WORK ONLY

MOTORIST INFORMATION PLAN

STAGE 4C

NO SCALE

MI-5

LAST REVISION 06-28-24 | DATE PLOTTED => 30 January 2025 | TIME PLOTTED => 13:21

BORDER LAST REVISED 7/2/2010

USERNAME => wandrews
DGN FILE => 04130002131lb_mi-05.dwg

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0751

PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	48	247

Darlene J. Whitlock — REGISTERED CIVIL ENGINEER — 2/21/25 DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DALENE J. WHITLOCK — No. 38942 — Exp. 3/31/25 — CIVIL — STATE OF CALIFORNIA

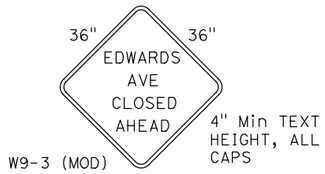
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W-TRANS
490 MENDOCINO AVE, SUITE 201
SANTA ROSA, CA 95401

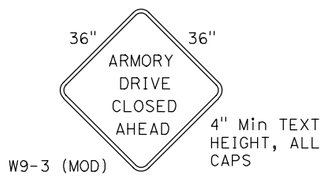
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

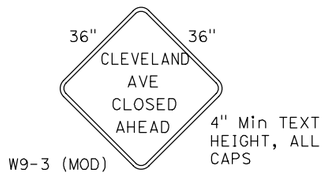
SIGN No. (#)	SIGN DESIGNATION	PANEL SIZE	SIGN MESSAGE	No. OF POSTS AND SIZE	No. OF SIGNS
1	M4-10L	48" x 18"	DETOUR LEFT	1 - 4" x 6"	1
	DETAIL A	36" x 36"	EDWARDS AVE CLOSED AHEAD		
2	M4-10R	48" x 18"	DETOUR RIGHT	1 - 4" x 6"	7
3	M4-8a	24" x 18"	END DETOUR	1 - 4" x 4"	9
4	SC3 (CA)	48" x 18"	DETOUR STRAIGHT	1 - 4" x 6"	1
	DETAIL A	36" x 36"	EDWARDS AVE CLOSED AHEAD		
5	M4-10R	48" x 18"	DETOUR RIGHT	1 - 4" x 6"	1
	DETAIL B	36" x 36"	ARMORY DRIVE CLOSED AHEAD		
6	M4-10L	48" x 18"	DETOUR LEFT	1 - 4" x 6"	4
7	C2 (CA)	36" x 24"	ROAD CLOSED	ON BARRICADE	5
8	W20-2	48" x 48"	DETOUR AHEAD	1 - 4" x 6"	2
9	R11-3a	60" x 30"	ROAD CLOSED AHEAD LOCAL TRAFFIC ONLY	1 - 4" x 6"	4
10	M4-10R	48" x 18"	DETOUR RIGHT	1 - 4" x 6"	2
	DETAIL C	36" x 36"	CLEVELAND AVE CLOSED AHEAD		
11	M4-10L	48" x 18"	DETOUR LEFT	1 - 4" x 6"	1
	DETAIL C	36" x 36"	CLEVELAND AVE CLOSED AHEAD		
12	M3-1	24" x 12"	NORTH	1 - 4" x 6"	5
	G26-2 (CA)	28" x 24"	ROUTE 101 SHIELD		
	M4-10R	48" x 18"	DETOUR RIGHT		
13	M3-1	24" x 12"	NORTH	1 - 4" x 6"	11
	G26-2 (CA)	28" x 24"	ROUTE 101 SHIELD		
	SC9 (CA)	36" x 36"	DETOUR STRAIGHT		
14	M3-1	24" x 12"	NORTH	1 - 4" x 6"	2
	G26-2 (CA)	28" x 24"	ROUTE 101 SHIELD		
	M4-10L	48" x 18"	DETOUR LEFT		
15	M3-3	24" x 12"	SOUTH	1 - 4" x 6"	4
	G26-2 (CA)	28" x 24"	ROUTE 101 SHIELD		
	M4-10L	48" x 18"	DETOUR LEFT		
16	M3-3	24" x 12"	SOUTH	1 - 4" x 6"	11
	G26-2 (CA)	28" x 24"	ROUTE 101 SHIELD		
	SC9 (CA)	36" x 36"	DETOUR STRAIGHT		
17	M3-3	24" x 12"	SOUTH	1 - 4" x 6"	3
	G26-2 (CA)	28" x 24"	ROUTE 101 SHIELD		
	M4-10R	48" x 18"	DETOUR RIGHT		
18	W20-2	36" x 36"	DETOUR AHEAD	1 - 4" x 6"	11
19	SC3 (CA)	48" x 18"	DETOUR STRAIGHT	1 - 4" x 6"	1
	DETAIL B	36" x 36"	ARMORY DRIVE CLOSED AHEAD		
20	W6-4	12" x 18"	TWO-WAY TRAFFIC	1 - 4" x 4"	4
21	C30 (CA)	30" x 30"	LANE CLOSED	1 - 4" x 6"	5
22	C30A (CA)	48" x 48"	SHOULDER CLOSED	1 - 4" x 6"	6
23	R3-1	24" x 24"	NO RIGHT TURN	1 - 4" x 4"	2
24	R3-2	24" x 24"	NO LEFT TURN	1 - 4" x 4"	2
25	W21-5b(R)	48" x 48"	RIGHT SHOULDER CLOSED AHEAD	1 - 4" x 6"	4
26	W21-5b(L)	48" x 48"	LEFT SHOULDER CLOSED AHEAD	1 - 4" x 6"	1
27	W21-5	48" x 48"	SHOULDER WORK	1 - 4" x 6"	5
28	C9A (CA)	36" x 36"	FLAGGER	1 - 4" x 4"	2
29	R26F (CA)	12" x 18"	NO STOPPING FIRE LANE	1 - 4" x 4"	1
30	G20-5aP	36" x 24"	WORK ZONE	-	5
	R2-1(55)	36" x 48"	SPEED LIMIT 55		
	-	36" x 36"	VEHICLE SPEED FEEDBACK SIGN		
31	R2-12	36" x 54"	END WORK ZONE SPEED LIMIT	1 - 4" x 6"	2
32	W3-5(55)	48" x 48"	SPEED LIMIT 55 AHEAD	1 - 4" x 6"	2
33	W11-1	30" x 30"	BICYCLE	1 - 4" x 4"	2
	W16-1P	18" x 24"	SHARE THE ROAD		
34	SC3 (CA)	48" x 18"	DETOUR STRAIGHT	1 - 4" x 6"	2
	DETAIL A	36" x 36"	EDWARDS AVE CLOSED AHEAD		
35	SC3 (CA)	48" x 18"	DETOUR STRAIGHT	1 - 4" x 6"	1
	DETAIL C	36" x 36"	CLEVELAND AVE CLOSED AHEAD		
36	R9-11a	24" x 12"	SIDEWALK CLOSED CROSS HERE ⇨	1 - 4" x 6"	3
37	W20-1	36" x 36"	ROAD WORK AHEAD	1 - 4" x 6"	6
38	M4-9BA	24" x 18"	PED DETOUR AHEAD	1 - 4" x 6"	2
39	M4-9BR	24" x 18"	PED DETOUR ⇨	1 - 4" x 6"	3



DETAIL A



DETAIL B



DETAIL C

MOTORIST INFORMATION PLAN
MI-6

LAST REVISION 06-28-24 | DATE PLOTTED => 30 January 2025 | TIME PLOTTED => 13:21

REVISED BY | DATE REVISED
NICHOLAS BRUNETTO | STEVEN FITZSIMONS
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR | DIRECTOR
JAGGI S. BHANDAL
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

BORDER LAST REVISED 7/2/2010 | USERNAME =>wandrews | DGN FILE => 041300021311b_mi-06.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	49	247

REGISTERED CIVIL ENGINEER — 2/21/25 DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DALENE J. WHITLOCK — No. 38942 — Exp. 3/31/25 — CIVIL — STATE OF CALIFORNIA

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SANTA ROSA, CA 95401

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

NOTES (ALL STAGES):

1. STAGE CONSTRUCTION AND TRAFFIC HANDLING PLANS ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.
2. ALL WORK IN EACH STAGE MUST BE COMPLETED IN SEQUENCE BEFORE PROCEEDING TO THE NEXT STAGE UNLESS APPROVED BY THE ENGINEER. ANY MODIFICATIONS TO THE CONSTRUCTION SEQUENCE IDENTIFIED OR TRAFFIC CONTROL SYSTEM SHOWN SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ALL MODIFICATIONS WILL REQUIRE OBTAINING APPROVAL FROM THE ENGINEER, CITY OF SANTA ROSA, AND CALTRANS.
3. WORK LISTED IS NOT A COMPLETE LIST OF WORK ITEMS IN STAGE. REFER TO PROJECT PLAN SHEETS FOR ADDITIONAL WORK INFORMATION.
4. STATIONS SHOWN ON STAGE CONSTRUCTION AND TRAFFIC HANDLING SHEETS ARE APPROXIMATE.
5. CONTRACTOR TO VERIFY CROSS SLOPES OF ALL Temp PEDESTRIAN PATHS TO ENSURE THEY HAVE LESS THAN A 2% CROSS SLOPE.
6. ALL CHANNELIZING DEVICES SHALL BE INSTALLED ON 25' CENTERS UNLESS OTHERWISE SHOWN.
7. REMOVE EXISTING STRIPING THAT CONFLICTS WITH TEMPORARY STRIPING. REMOVE ALL EXISTING STRIPING ON US-101 BETWEEN CONFORMS OF TEMPORARY STRIPING.
8. SEE PAVEMENT DELINEATION PLAN FOR RESTORATION OF EXISTING STRIPING.
9. EXACT SIGN LOCATIONS, INCLUDING FLASHING ARROW SIGNS, TO BE DETERMINED BY THE ENGINEER.
10. FOR ADDITIONAL CONSTRUCTION AREA SIGNS, SEE CONSTRUCTION AREA SIGNS PLANS.
11. FOR DETOUR SIGNS AND DETOUR ROUTES, SEE MOTORIST INFORMATION PLANS.
12. CONTRACTOR TO PROVIDE SEPARATE PLANS SHOWING TEMPORARY ADA PATHS AND DETOURS DURING ALL STAGES OF CONSTRUCTION.

LEGEND (ALL STAGES):

- CHANNELIZER (SURFACE MOUNTED)
- CONSTRUCTION THIS STAGE
- CONSTRUCTION AREA SIGN
- Temp CRASH CUSHION TL-3
- Temp BARRIER SYSTEM (CITY)
- Temp BARRIER SYSTEM
- BARRICADE (TYPE III)
- PRSFS — PORTABLE RADAR SPEED FEEDBACK SIGN AND SUPPORT
- TRSFS — Temp RADAR SPEED FEEDBACK SIGN AND SUPPORT
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- PORTABLE FLASHING BEACON
- (#) CONSTRUCTION AREA SIGN No.
- (X) STAGE CONSTRUCTION ITEM LETTER
- (##) PAVEMENT DELINEATION DETAIL No.
- DIRECTION OF TRAFFIC
- FLAGGER

STAGE 1

STATION	CONSTRUCTION
"EE" 9+00 TO 22+00	(A) EXCAVATION AND SIDEWALK REMOVAL
"EE" 11+70	(B) CONSTRUCT ABUTMENT 1 AND WEST APPROACH WALLS
"EE" 19+45	(C) CONSTRUCT ABUTMENT 11 AND EAST APPROACH WALLS
"EE" 12+35 TO 14+40	(D) CONSTRUCT BENTS 2 THROUGH 6
"EE" 15+20	(E) CONSTRUCT BENT 7
"EE" 17+55	(F) CONSTRUCT BENT 8
"EE" 18+30 TO 18+85	(G) CONSTRUCT BENTS 9 AND 10
"EE" 10+30 TO 14+45	(H) CONSTRUCT BRIDGE WEST APPROACH SUPERSTRUCTURE
"EE" 18+20 TO 21+30	(I) CONSTRUCT BRIDGE EAST APPROACH SUPERSTRUCTURE
"EE" 9+18 TO 14+71	(J) CONSTRUCT SIDEWALK, CURB RAMP, AND DRIVEWAY IMPROVEMENTS ALONG THE NORTH SIDE OF EDWARDS Ave
"EE" 17+19 TO 21+82	(K) CONSTRUCT SIDEWALK, CURB RAMP, AND DRIVEWAY IMPROVEMENTS ALONG THE SOUTH SIDE OF ELLIOTT Ave
"EE" 14+59 TO 14+73	(L) DESIGN AND INSTALL ADA COMPLIANT Temp PEDESTRIAN RAMP AND PATHWAY PER CALTRANS Std. PLAN No. T33 AND T34. CROSS SLOPE SHALL BE LESS THAN 2% THROUGHOUT ENTIRE PATH.
"EE" 9+18 TO 14+71	(M) CONSTRUCT PORTIONS OF DRAINAGE SYSTEMS 1 THROUGH 7 WITHIN WORK AREA ON NORTH SIDE OF EDWARDS Ave
"EE" 9+18 TO 14+71	(N) CONSTRUCT PORTIONS OF DRAINAGE SYSTEMS 8 THROUGH 10 WITHIN WORK AREA ON SOUTH SIDE OF ELLIOTT Ave
"EE" 10+16	(O) CONSTRUCT SIDEWALK AND CURB RAMP IMPROVEMENTS ALONG THE SOUTH SIDE OF EDWARDS Ave

THIS TABLE IS FOR CONSTRUCTION STAGING GUIDANCE. REFER TO BRIDGE ERECTION SEQUENCING ON SHEET 76-78 OF THE STRUCTURAL PLAN FOR DETAILED BRIDGE SEQUENCING

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

NOTES AND LEGEND

SC-1

REVISED BY | DATE REVISED: NICHOLAS BRUNETTO | STEVEN FITZSIMONS

CALCULATED-DESIGNED BY | CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 06-28-24 | DATE PLOTTED => 30 January 2025 | TIME PLOTTED => 13:21

BORDER LAST REVISED 7/2/2010 | USERNAME =>hlei | DGN FILE => 04130002131ma_sc-01.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	50	247

Dalene J. Whitlock — REGISTERED CIVIL ENGINEER — 2/21/25 DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DALENE J. WHITLOCK — No. 38942 — Exp. 3/31/25 — CIVIL — STATE OF CALIFORNIA

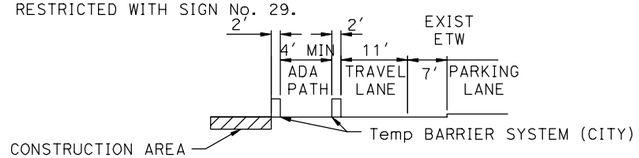
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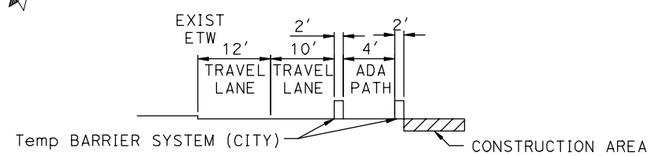
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

NOTES:

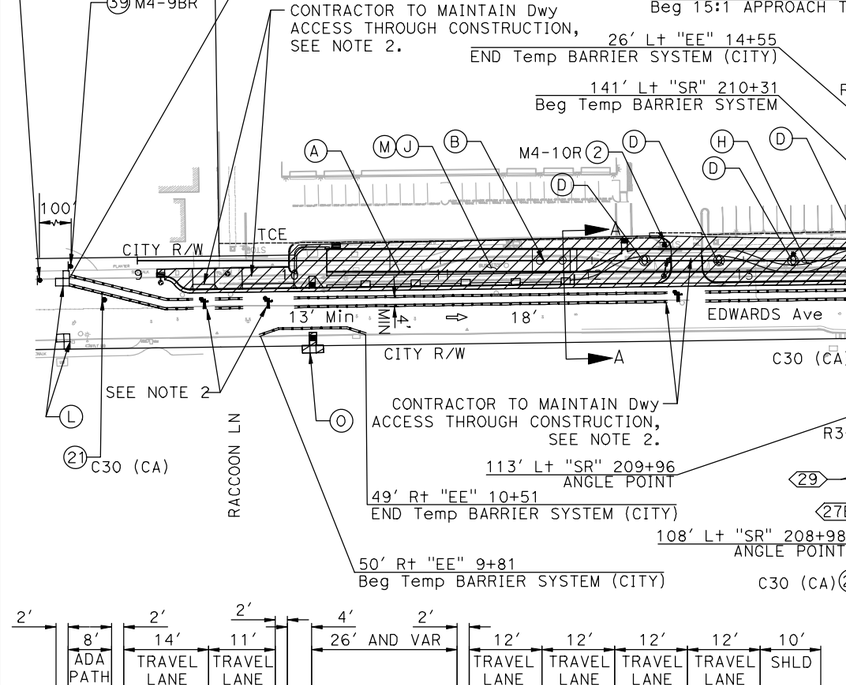
1. REFER TO SHEET SC-1 FOR DETAILS ON CONSTRUCTION ITEMS TO BE COMPLETED DURING STAGE 1.
2. CONTRACTOR TO MAINTAIN DRIVEWAY ACCESS TO DICK'S SPORTING GOODS PARKING LOT AT ALL TIMES. MAXIMUM OF ONE DRIVEWAY CAN BE CLOSED AT A TIME. BREAKS IN PEDESTRIAN DETOUR AT OPEN DRIVEWAY LOCATIONS TO HAVE TEMPORARY CRASH CUSHIONS (TL-3) INSTALLED AT ENDS. BREAKS IN PEDESTRIAN DETOUR AT DRIVEWAY LOCATIONS SHALL HAVE FLAGGERS TO ESCORT PEDESTRIANS THROUGH OPEN DRIVEWAYS.
3. CONTRACTOR TO MAINTAIN PARKING ON SOUTH SIDE OF EDWARDS Ave AT ALL TIMES.
4. WORK ON THE SOUTH SIDE OF EDWARDS Ave TO OCCUR AFTER SIDEWALK ON NORTH SIDE OF EDWARDS Ave IS OPENED.
5. CONTRACTOR TO NOTIFY THE FIRE DEPARTMENT AT (707) 543-3535 ON A MONTHLY BASIS WHILE ACCESS IN PARKING LOT IS RESTRICTED WITH SIGN No. 29.



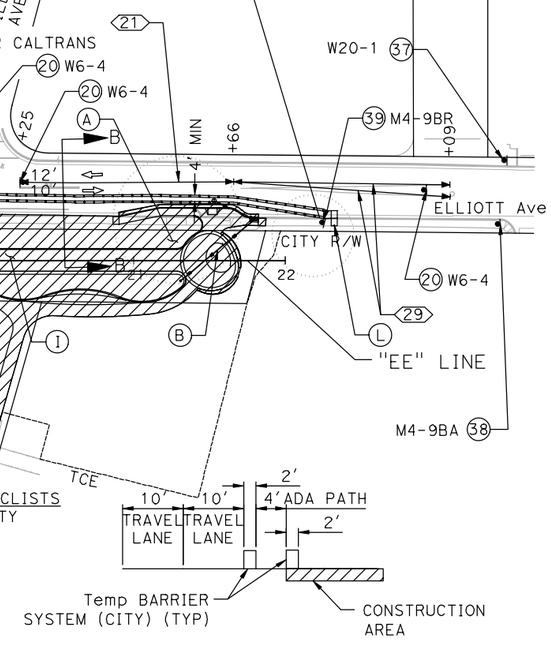
TYPICAL SECTION A-A
"EE" 9+18 TO 14+52
NO SCALE



TYPICAL SECTION B-B
"EE" 17+52 TO 21+85
NO SCALE



TYPICAL SECTION C-C
"SR" 210+44 TO 210+87
NO SCALE



TYPICAL SECTION D-D
"SR" 210+98 TO 211+52
NO SCALE

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

STAGE 1

SCALE: 1" = 50′

SC-2

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

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CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL

CALCULATED-DESIGNED BY: NICHOLAS BRUNETTO — CHECKED BY: STEVEN FITZSIMONS

REVISED BY — DATE REVISED

LAST REVISION: DATE PLOTTED => 30 January 2025 — 06-28-24 — TIME PLOTTED => 14:34

BORDER LAST REVISED 7/2/2010 | USERNAME => hlei | DGN FILE => 04130002131ma_SC-02.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	51	247

Dalene J. Whitlock — REGISTERED CIVIL ENGINEER — 2/21/25 DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DALENE J. WHITLOCK — No. 38942 — Exp. 3/31/25 — CIVIL — STATE OF CALIFORNIA

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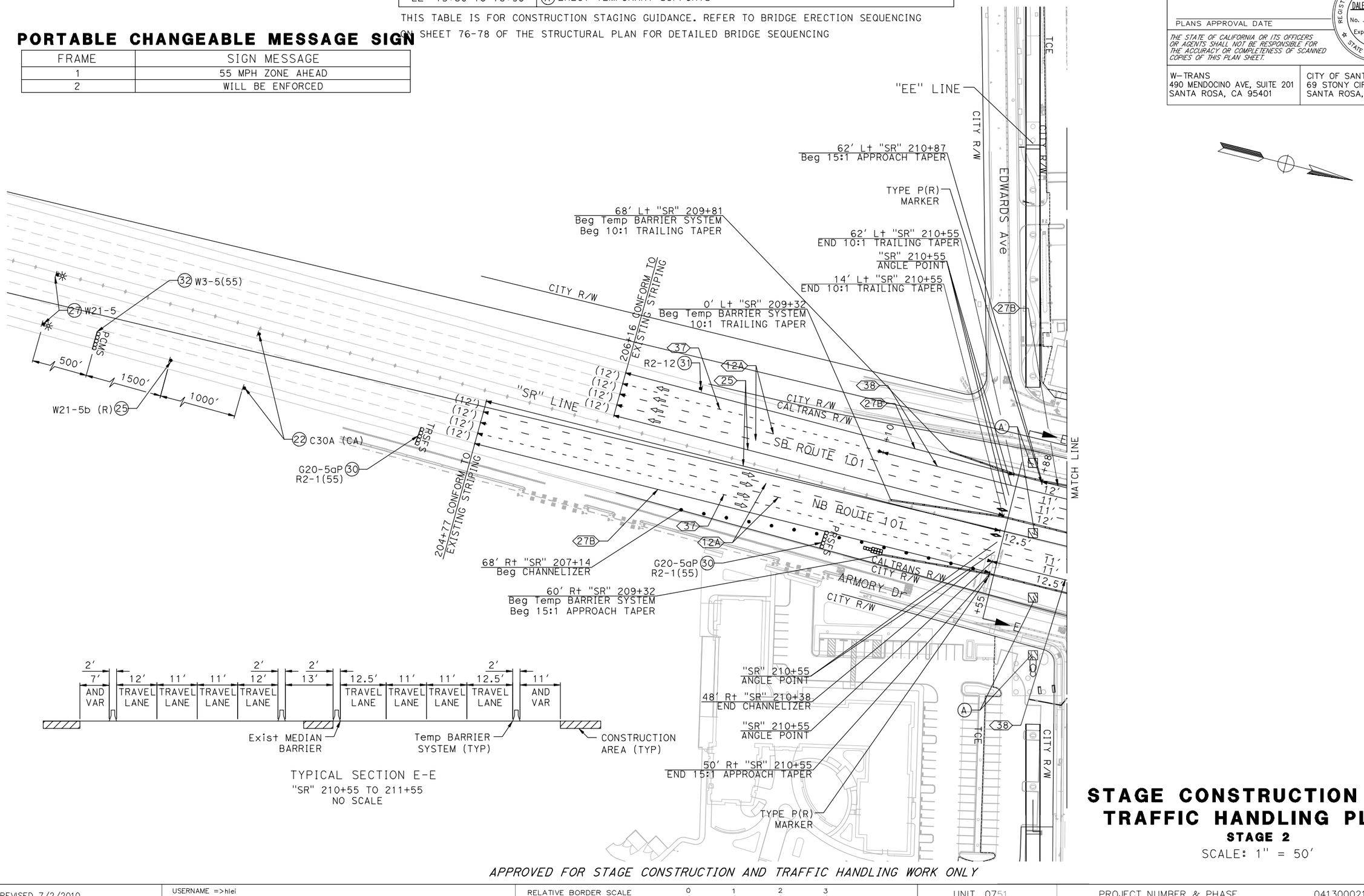
STAGE 2

STATION	CONSTRUCTION
"EE" 15+30 TO 16+90	(A) ERECT TEMPORARY SUPPORTS

THIS TABLE IS FOR CONSTRUCTION STAGING GUIDANCE. REFER TO BRIDGE ERECTION SEQUENCING ON SHEET 76-78 OF THE STRUCTURAL PLAN FOR DETAILED BRIDGE SEQUENCING

PORTABLE CHANGEABLE MESSAGE SIGN

FRAME	SIGN MESSAGE
1	55 MPH ZONE AHEAD
2	WILL BE ENFORCED



TYPICAL SECTION E-E
"SR" 210+55 TO 211+55
NO SCALE

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

STAGE 2

SCALE: 1" = 50'

SC-3

REVISED BY	DATE REVISED

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CHECKED BY: STEVEN FITZSIMONS
CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	52	247

Dalene J. Whitlock 2/21/25
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DALENE J. WHITLOCK No. 38942 Exp. 3/31/25 CIVIL — STATE OF CALIFORNIA

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NOTES:

1. SEE SHEET SC-3 FOR STAGE 2 CROSS SECTION OF US-101.

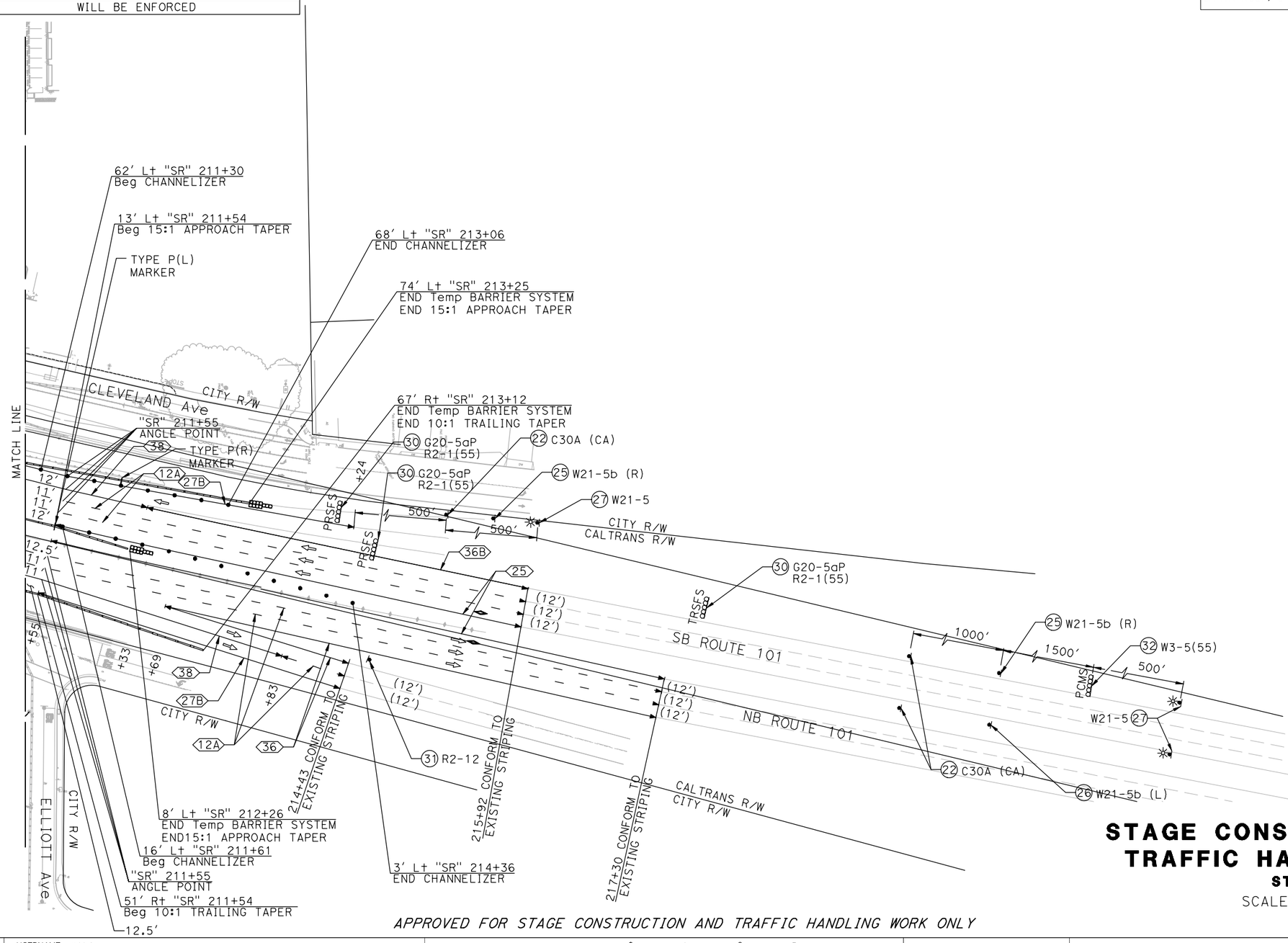
STAGE 2

STATION	CONSTRUCTION
"EE" 15+30 TO 16+90	(A) ERECT TEMPORARY SUPPORTS

THIS TABLE IS FOR CONSTRUCTION STAGING GUIDANCE. REFER TO BRIDGE ERECTION SEQUENCING ON SHEET 76-78 OF THE STRUCTURAL PLAN FOR DETAILED BRIDGE SEQUENCING

PORTABLE CHANGEABLE MESSAGE SIGN

FRAME	SIGN MESSAGE
1	55 MPH ZONE AHEAD
2	WILL BE ENFORCED



APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

STAGE 2

SCALE: 1" = 50'

SC-4

LAST REVISION 06-28-24 | DATE PLOTTED => 30 January 2025 | TIME PLOTTED => 13:21

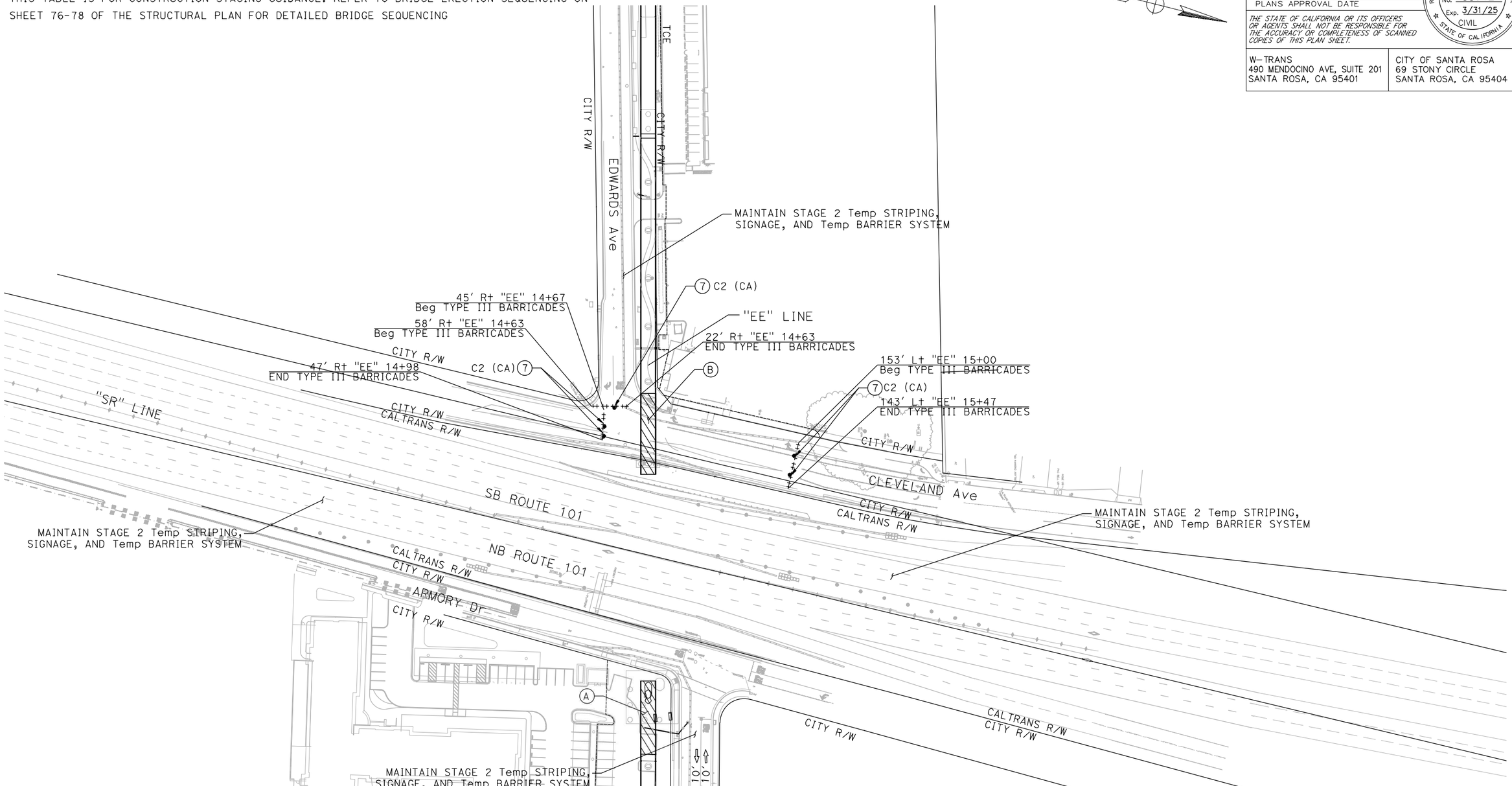
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL | CALCULATED-DESIGNED BY: NICHOLAS BRUNETTO | CHECKED BY: STEVEN FITZSIMONS | REVISED BY | DATE REVISED

BORDER LAST REVISED 7/2/2010 | USERNAME =>hlei | DGN FILE => 04130002131ma_sc-04.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

STAGE 3

STATION	CONSTRUCTION
"EE" 16+75 TO 18+30	(A) ERECT STEEL DECK SEGMENT 1.
"EE" 14+35 TO 15+40	(B) ERECT STEEL DECK SEGMENT 5 OVER CLEVELAND Ave. SEE MI PLANS.

THIS TABLE IS FOR CONSTRUCTION STAGING GUIDANCE. REFER TO BRIDGE ERECTION SEQUENCING ON SHEET 76-78 OF THE STRUCTURAL PLAN FOR DETAILED BRIDGE SEQUENCING



STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

STAGE 3

SCALE: 1" = 50'

SC-5

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	53	247

Dalene J. Whitlock — 2/21/25
REGISTERED CIVIL ENGINEER — DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DALENE J. WHITLOCK — No. 38942 — Exp. 3/31/25 — CIVIL — STATE OF CALIFORNIA

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CALCULATED-DESIGNED BY: NICHOLAS BRUNETTO
CHECKED BY: STEVEN FITZSIMONS
REVISED BY
DATE REVISED
CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 06-28-24
DATE PLOTTED => 30 January 2025
TIME PLOTTED => 13:21

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	54	247

REGISTERED CIVIL ENGINEER — 2/21/25 DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DALENE J. WHITLOCK — No. 38942 — Exp. 3/31/25 — CIVIL — STATE OF CALIFORNIA

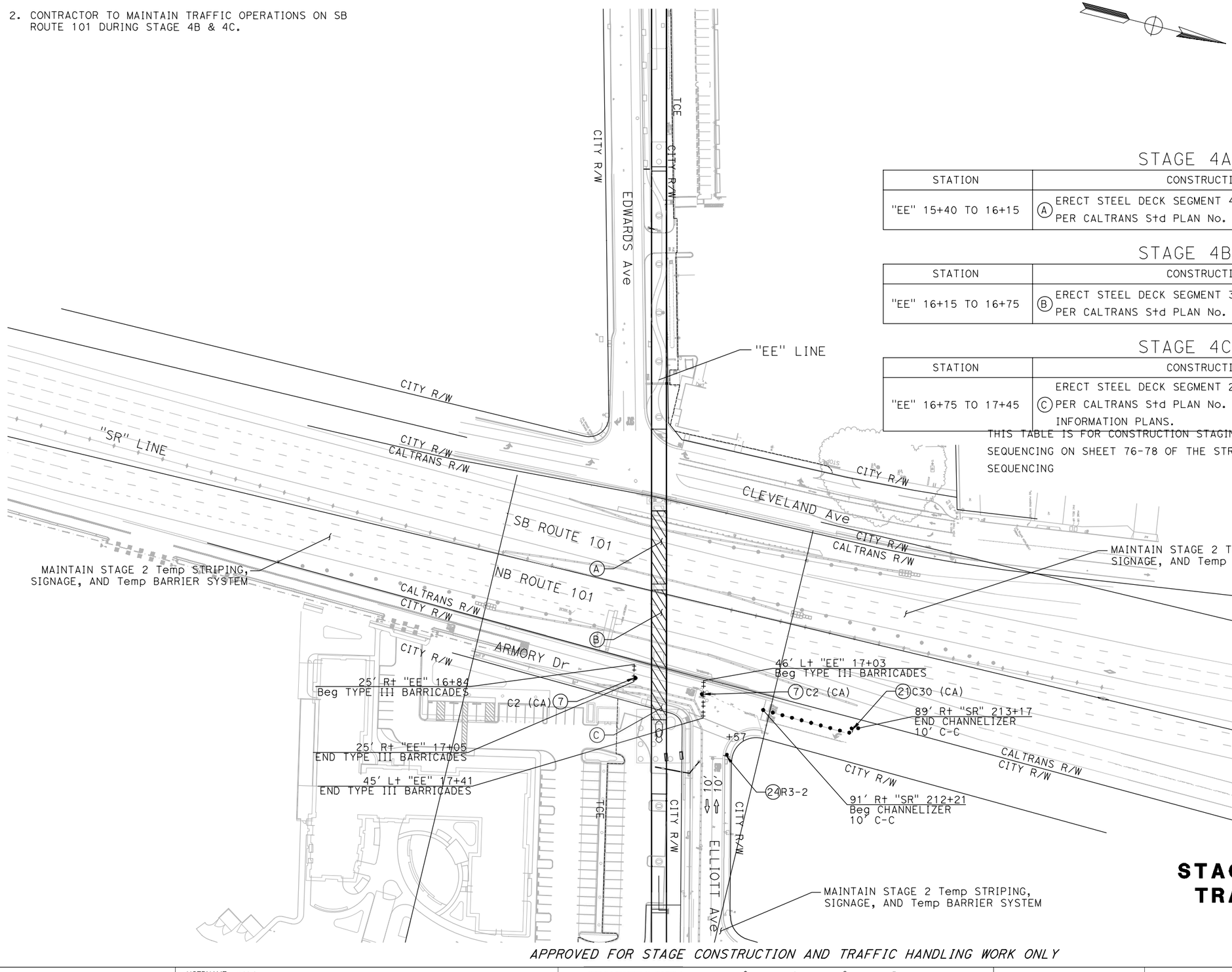
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W-TRANS
490 MENDOCINO AVE, SUITE 201
SANTA ROSA, CA 95401

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

NOTES:

1. CONTRACTOR TO MAINTAIN TRAFFIC OPERATIONS ON NB ROUTE 101 DURING STAGE 4A.
2. CONTRACTOR TO MAINTAIN TRAFFIC OPERATIONS ON SB ROUTE 101 DURING STAGE 4B & 4C.



STAGE 4A

STATION	CONSTRUCTION
"EE" 15+40 TO 16+15	(A) ERECT STEEL DECK SEGMENT 4 OVER SB ROUTE 101. CLOSE SB ROUTE 101 PER CALTRANS Std PLAN No. T10A. SEE MOTORIST INFORMATION PLANS.

STAGE 4B

STATION	CONSTRUCTION
"EE" 16+15 TO 16+75	(B) ERECT STEEL DECK SEGMENT 3 OVER NB ROUTE 101. CLOSE NB ROUTE 101 PER CALTRANS Std PLAN No. T10A. SEE MOTORIST INFORMATION PLANS.

STAGE 4C

STATION	CONSTRUCTION
"EE" 16+75 TO 17+45	(C) ERECT STEEL DECK SEGMENT 2 OVER NB ROUTE 101. CLOSE NB ROUTE 101 PER CALTRANS Std PLAN No. T10A AND CLOSE ARMORY Dr. SEE MOTORIST INFORMATION PLANS.

THIS TABLE IS FOR CONSTRUCTION STAGING GUIDANCE. REFER TO BRIDGE ERECTION SEQUENCING ON SHEET 76-78 OF THE STRUCTURAL PLAN FOR DETAILED BRIDGE SEQUENCING

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

STAGE 4

SCALE: 1" = 50′

SC-6

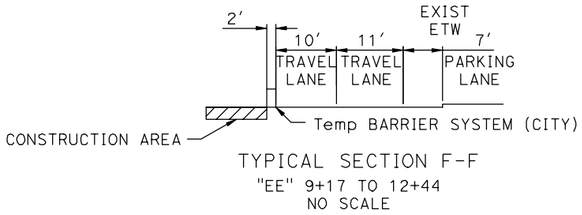
APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

CALCULATED-DESIGNED BY
CHECKED BY
NICHOLAS BRUNETTO
STEVEN FITZSIMONS
REVISED BY
DATE REVISED
CONSULTANT FUNCTIONAL SUPERVISOR
JAGGI S. BHANDAL
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

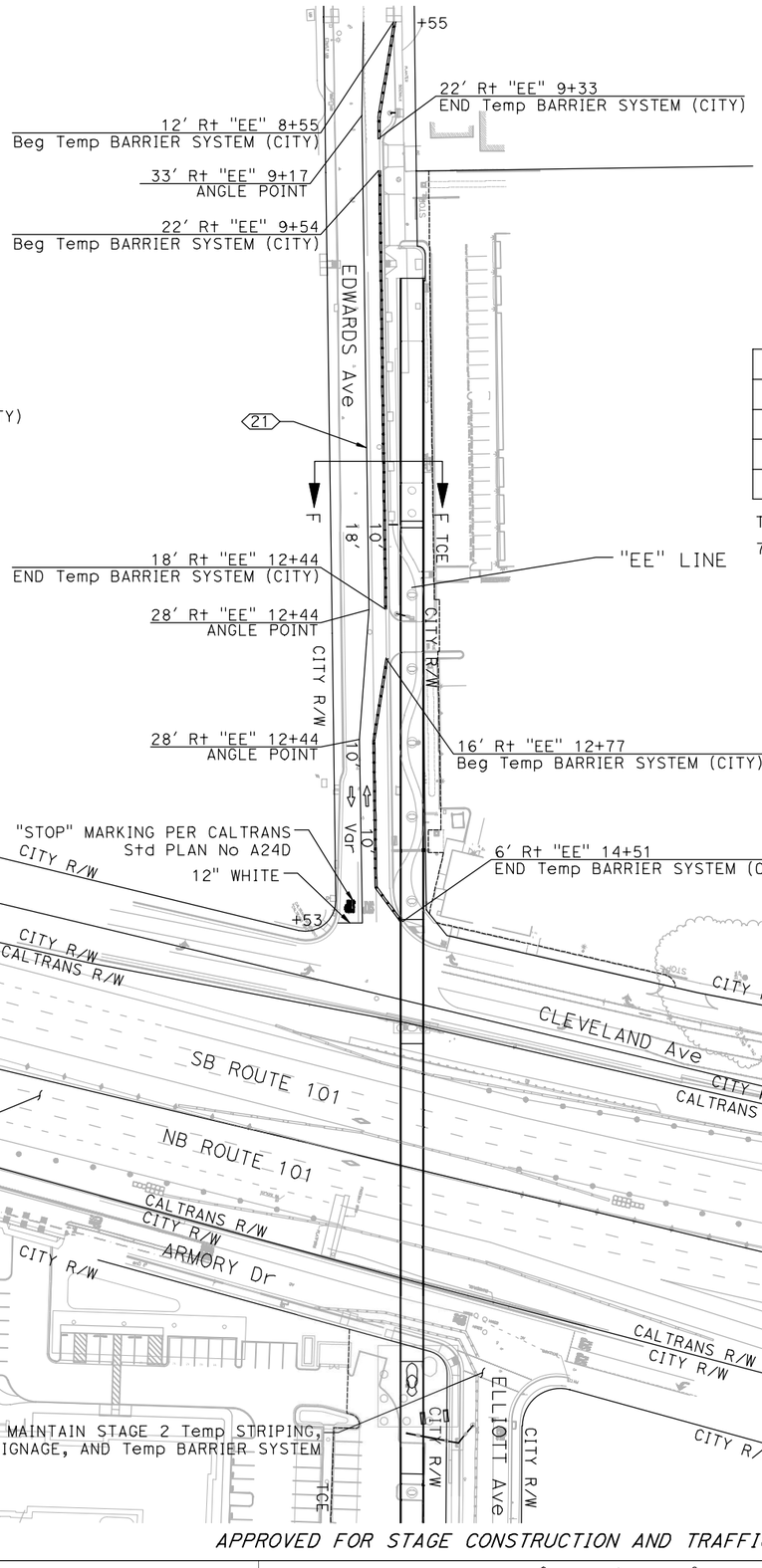
LAST REVISION 06-28-24
DATE PLOTTED => 30 January 2025
TIME PLOTTED => 13:21

NOTE:

UPON COMPLETION OF STAGE 5 AND REMOVAL OF TEMPORARY SUPPORTS AND FALSEWORK, INSTALL PERMANENT STRIPING WITH REVERSING ONE-WAY CONTROL ON CITY STREETS PER CALTRANS Std DETAIL No. T13 AND WITH MOVING LANE CLOSURES ON ROUTE 101 PER CALTRANS Std DETAIL No. T15 AND T16.



TYPICAL SECTION F-F
"EE" 9+17 TO 12+44
NO SCALE



STAGE 5

STATION	CONSTRUCTION
"EE" 17+40 TO 18+00	(A) ERECT STEEL PYLON (ELLIOT Ave ONLY)
"EE" 15+40 TO 16+75	(B) INSTALL AND STRESS BRIDGE CABLES
"EE" 12+00 TO 19+00	(C) PLACE POLYESTER CONCRETE OVERLAY
"EE" 12+00 TO 19+00	(D) INSTALL BRIDGE RAILING AND FENCING

THIS TABLE IS FOR CONSTRUCTION STAGING GUIDANCE. REFER TO BRIDGE ERECTION SEQUENCING ON SHEET 76-78 OF THE STRUCTURAL PLAN FOR DETAILED BRIDGE SEQUENCING

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	55	247

REGISTERED CIVIL ENGINEER — 2/21/25 DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DALENE J. WHITLOCK — No. 38942 — Exp. 3/31/25 — CIVIL — STATE OF CALIFORNIA

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W-TRANS
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SANTA ROSA, CA 95401

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

STAGE 5

SCALE: 1" = 50'

SC-7

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

REVISED BY | DATE REVISED
NICHOLAS BRUNETTO | 06-28-24
STEVEN FITZSIMONS

CALCULATED-DESIGNED BY
CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR
JAGGI S. BHANDAL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION | DATE PLOTTED => 30 January 2025
06-28-24 | TIME PLOTTED => 13:21

BORDER LAST REVISED 7/2/2010
USERNAME =>hlei
DGN FILE => 04130002131ma_sc-07.dwg
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0751
PROJECT NUMBER & PHASE 04130002131

TEMPORARY TRAFFIC STRIPES, PAVEMENT MARKINGS, AND PAVEMENT MARKERS

SHEET No.	STAGE	STATION LIMITS	LOCATION	DETAIL No. OR PAVEMENT MARKING	TEMPORARY TRAFFIC STRIPE (PAINT)							TEMPORARY PAVEMENT MARKER	Temp PAVEMENT MARKING (PAINT)
					6" SOLID WHITE	8" SOLID WHITE	12" SOLID WHITE	6" SOLID YELLOW	6" BROKEN WHITE	8" BROKEN WHITE	6" BROKEN YELLOW		
					LF							EA	SQFT
SC-2	1	"SR" 208+80 TO 210+20	LEFT	29				564				24	
		"SR" 208+80 TO 210+45	LEFT	27B	165								
		"SR" 209+79 TO 210+98	RIGHT	27B	120								
		"SR" 209+79 TO 211+52	RIGHT	21				350					
		"SR" 210+65 TO 211+37	LEFT	29				210				9	
		"SR" 211+52 TO 212+20	RIGHT	41							71		
		"EE" 17+82 TO 19+60	LEFT	21				358					
		"EE" 20+25 TO 21+66	LEFT	21				282					
		"EE" 21+66 TO 23+09	LEFT	29				572				24	
		"EE" 17+26	LEFT	LIMIT LINE									16
		"EE" 17+26	LEFT	"STOP"									22
		"EE" 17+82	LEFT	LIMIT LINE									16
		"EE" 17+82	LEFT	"STOP"									22
SC-3 SC-4	2	"SR" 204+77 TO 210+55	RIGHT	27B	580								
		"SR" 204+77 TO 210+55	RIGHT	25				580				12	
		"SR" 204+77 TO 210+55	RIGHT	37						580		20	
		"SR" 204+77 TO 217+30	RIGHT	12A					2510			52	
		"SR" 210+55 TO 213+83	RIGHT	38		330						14	
		"SR" 211+55 TO 214+43	RIGHT	27B	290								
		"SR" 213+83 TO 214+43	RIGHT	12A					61			2	
		"SR" 211+55 TO 217+30	RIGHT	25				576				12	
		"SR" 212+69 TO 217+30	RIGHT	36		638						27	
		"SR" 206+16 TO 210+55	LEFT	25				440					
		"SR" 206+16 TO 215+92	LEFT	12A					1950			40	
		"SR" 206+16 TO 209+10	LEFT	37						294		10	
		"SR" 206+16 TO 210+55	LEFT	27B	440								
		"SR" 209+10 TO 212+33	LEFT	38		321						14	
		"SR" 212+33 TO 215+92	LEFT	36B			357						
		"SR" 210+88 TO 214+24	LEFT	27B	335								
		"SR" 211+55 TO 215+92	LEFT	25				440				9	
		"SR" 210+52	LEFT/RIGHT	DIAMOND									22
		"SR" 215+52	LEFT/RIGHT	DIAMOND									22
SC-7	5	"EE" 8+55 TO 14+53	RIGHT	21				1200					
		"EE" 14+53	RIGHT	LIMIT LINE									16
		"EE" 14+53	RIGHT	"STOP"									22
SUBTOTAL					1930	1289	357	5572	4521	874	71	-	-
TOTAL					14614							269	158

TEMPORARY BARRIER SYSTEM

SHEET No.	STAGE	STATION LIMITS	LOCATION	LF
SC-2	1	"SR" 208+80 TO 213+25	LEFT	440
		"SR" 210+31 TO 212+16	LEFT	180
		"SR" 210+52 TO 211+63	RIGHT	120
SC-3 SC-4	2	"SR" 209+32 TO 213+12	RIGHT	380
		"SR" 209+32 TO 212+26	LEFT	300
		"SR" 209+81 TO 213+25	LEFT	340
TOTAL				1760

TEMPORARY BARRIER SYSTEM (CITY)

SHEET No.	STAGE	STATION LIMITS	LOCATION	LF
SC-2	1	"EE" 8+55 TO 14+55	RIGHT	1270
		"EE" 9+81 TO 10+51	RIGHT	70
		"SR" 209+80 TO 211+47	LEFT	170
		"EE" 17+16 TO 22+22	LEFT	1170
SC-7	5	"EE" 8+55 TO 9+33	RIGHT	80
		"EE" 9+54 TO 12+44	RIGHT	290
		"EE" 12+77 TO 14+51	RIGHT	180
TOTAL				3230

TEMPORARY CRASH CUSHION TL-3

SHEET No.	STAGE	STATION LIMITS	LOCATION	(N) OBJECT MARKER TYPE P (CA)	TEMPORARY CRASH CUSHION TL-3
				EA	
SC-2	1	"SR" 213+25	LEFT	2	13
SC-3	2	"SR" 209+32	RIGHT	1	1
SC-4	2	"SR" 212+26	LEFT	1	1
		"SR" 213+25	LEFT	2	1
TOTAL					16

(N) - NOT A SEPARATE BID ITEM

PORTABLE FLASHING BEACONS

SHEET No.	STAGE	STATION LIMITS	LOCATION	EA
SC-3	2	"SR" 172+66	LEFT	1
SC-3	2	"SR" 172+66	RIGHT	1
SC-4	2	"SR" 249+48	LEFT	1
SC-4	2	"SR" 249+48	RIGHT	1
TOTAL				4

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	56	247

REGISTERED CIVIL ENGINEER — 2/21/25 DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DALENE J. WHITLOCK — No. 38942 — Exp. 3/31/25 — CIVIL — STATE OF CALIFORNIA

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W-TRANS
490 MENDOCINO AVE, SUITE 201
SANTA ROSA, CA 95401

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

STAGE CONSTRUCTION AND TRAFFIC HANDLING QUANTITIES

SCQ-1

REVISED BY: STEVEN FITZSIMONS — DATE REVISED:
CALCULATED-DESIGNED BY: NICHOLAS BRUNETTO — CHECKED BY:
CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION — DATE PLOTTED => 17 February 2025 — TIME PLOTTED => 09:17
06-28-24

BORDER LAST REVISED 7/2/2010 | USERNAME => wandrews | DGN FILE => 04130002131mc_scq-01.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	57	247

Dalene J Whitlock 2/21/25
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DALENE J. WHITLOCK — No. 38942 — Exp. 3/31/25 — CIVIL — STATE OF CALIFORNIA

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W-TRANS
490 MENDOCINO AVE, SUITE 201
SANTA ROSA, CA 95401

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

REMOVE THERMOPLASTIC STRIPES AND PAVEMENT MARKERS

SHEET No.	STAGE	STATION LIMITS	LOCATION	DETAIL No. OR PAVEMENT MARKING	REMOVE THERMOPLASTIC TRAFFIC STRIPE				REMOVE PAVEMENT MARKER	REMOVE THERMOPLASTIC PAVEMENT MARKING
					4" YELLOW (HAZARDOUS WASTE)	6" YELLOW	6" WHITE	8" WHITE		
					LF				EA	SQFT
SC-2	1	"EE" 9+34 TO 14+49	RIGHT	21 (MARKER)					190	
		"EE" 14+43	RIGHT	TYPE IV ARROW						15
		"EE" 14+43	RIGHT	"STOP"						22
		"EE" 14+18 TO 14+59	RIGHT	38				42	3	
		"SR" 209+98 TO 210+62	LEFT	CROSSWALK						111
		"SR" 209+03 TO 212+18	LEFT	TYPE IV ARROW						75
		"SR" 208+54 TO 209+80	LEFT	27B			125			
		"SR" 208+54 TO 209+96	LEFT	21 (MARKER)					100	
		"SR" 208+99 TO 210+00	LEFT	38				202	5	
		"SR" 210+68 TO 212+24	LEFT	28 (MARKER)					120	
		"SR" 210+80 TO 212+26	LEFT	39			286			
		"SR" 212+22	LEFT	BIKE SYMBOL						11
		"SR" 209+79 TO 211+41	RIGHT	22		340			16	
		"SR" 209+79 TO 211+41	RIGHT	27B			265			
		"SR" 209+79 TO 211+41	RIGHT	39			265			
		"SR" 209+79 TO 211+41	RIGHT	DIAGONALS			21			
		"SR" 209+79 TO 211+41	RIGHT	39A (MODIFIED)		57				
		"EE" 17+25	LEFT	LIMIT LINES						12
		"EE" 17+29	LEFT	BIKE SYMBOLS						22
		"SR" 211+49 TO 212+00	RIGHT	CROSSWALK						92
		"SR" 212+20	RIGHT	LIMIT LINE						21
		"SR" 212+20 TO 213+04	RIGHT	21 (MARKER)					34	
		"SR" 212+20 TO 213+04	RIGHT	38				85	4	
		"SR" 211+28 TO 212+34	RIGHT	"STOP"						110
		"SR" 212+97	RIGHT	TYPE IV ARROW						15
		"EE" 18+27	LEFT	TYPE IV ARROW						15
		"EE" 17+58 TO 18+34	LEFT	38				76	7	
		"EE" 17+55 TO 20+64	LEFT	21 (MARKER)					100	
SC-3 SC-4	2	"EE" 14+43	RIGHT	TYPE IV ARROW						15
		"EE" 14+43	RIGHT	"STOP"						22
		"SR" 204+77 TO 217+30	RIGHT	27B			1392			
		"SR" 204+77 TO 217+30	RIGHT	12A			2970		62	
		"SR" 213+76 TO 217+30	RIGHT	36				420	17	
		"SR" 204+77 TO 217+30	RIGHT	25	1250				26	
		"SR" 206+16 TO 215+92	LEFT	25	980				20	
		"SR" 206+16 TO 215+92	LEFT	12A			490		40	
		"SR" 206+16 TO 209+10	LEFT	37				30	10	
		"SR" 206+16 TO 215+92	LEFT	27B			1482			
		"SR" 206+16 TO 215+92	LEFT/RIGHT	DIAMOND SYMBOL						44
SUBTOTAL					-	397	7296	855	-	-
TOTAL					2230	8548			754	602

TYPE III BARRICADES

SHEET No.	STAGE	STATION LIMITS	LOCATION	EA
SC-5	3	"EE" 14+63 TO 14+63	RIGHT	4
		"EE" 14+67 TO 14+98	RIGHT	3
		"EE" 15+00 TO 15+47	LEFT	5
SC-6	4	"EE" 16+84 TO 17+05	LEFT	2
		"EE" 17+03 TO 17+41	RIGHT	4
TOTAL				18

CHANNELIZER (SURFACE MOUNTED)

SHEET No.	STAGE	STATION LIMITS	LOCATION	EA
SC-2	1	"SR" 211+00 TO 214+75	LEFT	16
SC-3	2	"SR" 207+14 TO 210+38	RIGHT	14
SC-4	2	"SR" 211+30 TO 213+06	LEFT	8
		"SR" 211+61 TO 214+36	LEFT	12
SC-6	4	"SR" 212+21 TO 213+17	RIGHT	11
TOTAL				61

REMOVE DELINEATOR

SHEET No.	STAGE	STATION LIMITS	LOCATION	EA
SC-2	1	"SR" 209+79 TO 211+41	RIGHT	12
TOTAL				12

STAGE CONSTRUCTION AND TRAFFIC HANDLING QUANTITIES

SCQ-2

REVISED BY | DATE REVISED
NICHOLAS BRUNETTO | STEVEN FITZSIMONS
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 06-28-24 | DATE PLOTTED => 30 January 2025 | TIME PLOTTED => 13:21

BORDER LAST REVISED 7/2/2010 | USERNAME =>wandrews | DGN FILE => 04130002131mc_scq-02.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	58	247

REGISTERED CIVIL ENGINEER — DATE 2-21-25

REGISTERED PROFESSIONAL ENGINEER — J.S. BHANDAL — No. 77430 — Exp. 6-30-25 — CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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BKF ENGINEERS
7901 STONERIDGE DRIVE, SUITE 360
PLEASANTON, CA 94588

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 94404

REVISED BY	DATE REVISED
SD	2-21-25

CALCULATED-DESIGNED BY: STEVEN DAUTERMAN
CHECKED BY: CHEUNG WONG

CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

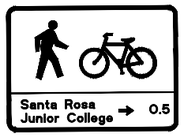
NOTES:

1. EXACT LOCATION AND POSITION OF ROADSIDE SIGNS TO BE DETERMINED BY THE ENGINEER.
2. ALL SIGNS ARE BASED ON THE CALIFORNIA 2014 MUTCD.
3. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO DRILLING HOLES OR PREPARING SIGN FOUNDATIONS.
4. CONTRACTOR SHALL REMOVE EXISTING PAVEMENT DELINEATION WHICH CONFLICT WITH THIS PLAN.
5. ALL PAVEMENT STRIPING AND POSITION OF PAVEMENT MARKINGS TO BE DETERMINED BY ENGINEER.
6. STRIPING WITHIN CITY LIMITS SHALL FOLLOW CITY TRAFFIC STANDARDS.
7. SIGNS INSTALLED WITHIN CITY LIMITS SHALL BE ON 2" I.D. GALVANIZED STEEL POST PER CITY TRAFFIC STANDARD DETAILS STD-701 AND STD-705B.
8. INSTALL 18" CHEVRON MARKING AT 50' SPACING PER LATEST CALTRANS STANDARD PLAN A20C.



24"x22" 2" CAP WHITE ON GREEN

DETAIL A
PED/BIKE WAYFINDING SIGN
NO SCALE

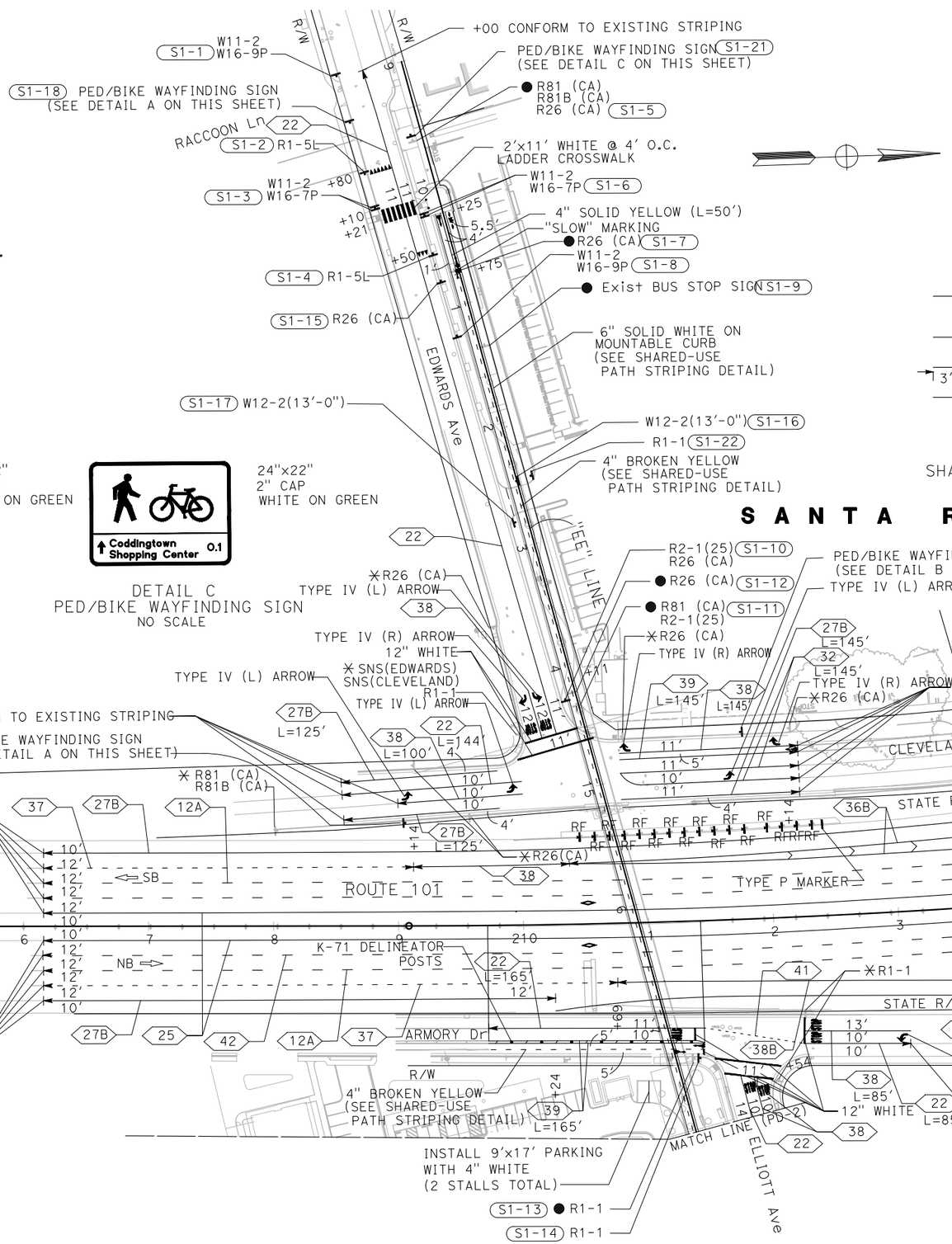


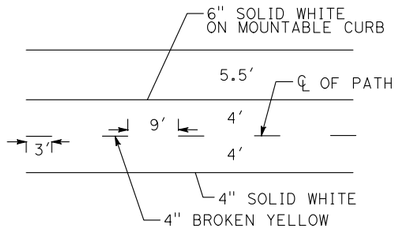
24"x22" 2" CAP WHITE ON GREEN

DETAIL B
PED/BIKE WAYFINDING SIGN
NO SCALE

24"x22" 2" CAP WHITE ON GREEN

DETAIL C
PED/BIKE WAYFINDING SIGN
NO SCALE





SHARED-USE PATH STRIPING DETAIL
NO SCALE

LEGEND:

✳	EXISTING SIGNS TO REMAIN
●	REMOVE ROADSIDE SIGN
(CA)	CALIFORNIA SIGN CODE
(SIGN-No.)	ROADSIDE SIGN NUMBER
I	OBJECT MARKER - TYPE P
RF	GUARD RAILING DELINEATOR - TYPE F

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

PAVEMENT DELINEATION AND SIGN PLAN

SCALE: 1" = 50'

PD-1

LAST REVISION 02-21-25
DATE PLOTTED => Apr 29 2025
TIME PLOTTED => 11:16 am

BORDER LAST REVISED 7/2/2010
USERNAME => ahernandez
DGN FILE => na_PD-01.dwg
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0751
PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	59	247

REGISTERED CIVIL ENGINEER — DATE 2-21-25

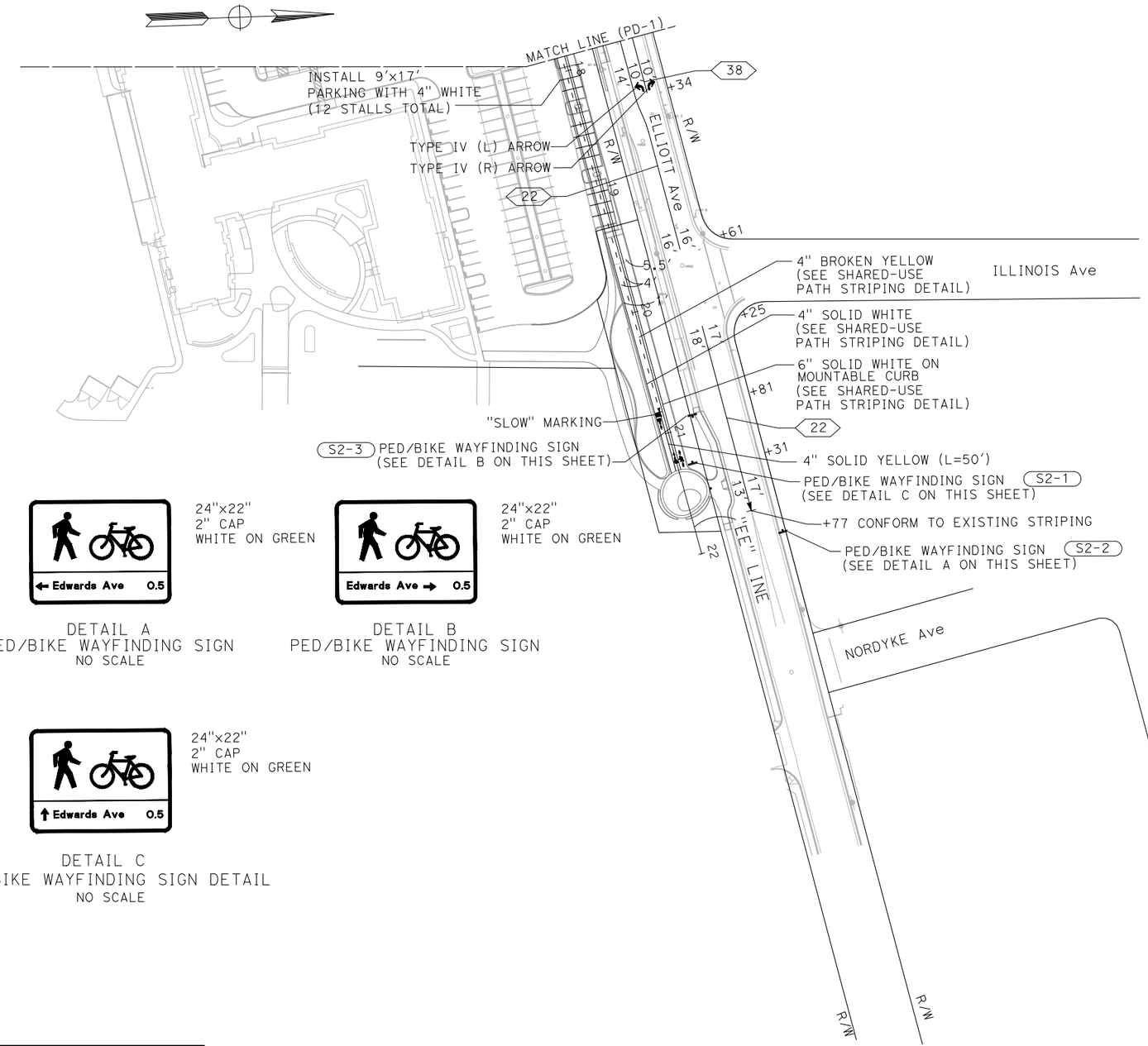
REGISTERED PROFESSIONAL ENGINEER — J.S. BHANDAL — No. 77430 — Exp 6-30-25 — CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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BKF ENGINEERS
7901 STONERIDGE DRIVE, SUITE 360
PLEASANTON, CA 94588

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404



24"x22"
2" CAP
WHITE ON GREEN

DETAIL A
PED/BIKE WAYFINDING SIGN
NO SCALE

24"x22"
2" CAP
WHITE ON GREEN

DETAIL B
PED/BIKE WAYFINDING SIGN
NO SCALE

24"x22"
2" CAP
WHITE ON GREEN

DETAIL C
PED/BIKE WAYFINDING SIGN DETAIL
NO SCALE

FOR NOTES AND LEGEND, SEE SHEET PD-1

PAVEMENT DELINEATION AND SIGN PLAN

SCALE: 1" = 50'

PD-2

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

STEVEN DAUTERMAN	CHEUNG WONG	2-21-25
REVISED BY	DATE REVISED	SD
CALCULATED-DESIGNED BY	CHECKED BY	
CONSULTANT FUNCTIONAL SUPERVISOR	JAGGI S. BHANDAL	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 02-21-25 | DATE PLOTTED => Apr 29, 2025 | TIME PLOTTED => 11:16 am

BORDER LAST REVISED 7/2/2010 | USERNAME => ahernandez | DGN FILE => na_PD-02.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

PAVEMENT DELINEATION QUANTITIES

SHEET No.	STATION LIMITS	DIRECTION	DETAIL No. OR PAVEMENT MARKING	PAVEMENT MARKER RETROREFLECTIVE TYPE RY RED/YELLOW EA	PAVEMENT MARKER RETROREFLECTIVE TYPE C RED/CLEAR EA	PAVEMENT MARKER RETROREFLECTIVE TYPE G CLEAR EA	6" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY) SOLID WHITE LF	6" SOLID YELLOW LF	6" BROKEN (18-12) LF	8" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY) SOLID WHITE LF	8" BROKEN (12-3) LF	8" BROKEN (18-12) LF	12" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY) SOLID WHITE LF	THERMOPLASTIC PAVEMENT MARKING (ENHANCED WET NIGHT VISIBILITY) SQFT	DESCRIPTION/ COMMENTS
PD-1	"SR" 206+16 TO 214+24	SB	27B				808								
	"SR" 206+16 TO 209+14	SB	37		20						298				
	"SR" 206+16 TO 215+92	SB	12A		21				976						
	"SR" 206+16 TO 215+92	SB	42		42							976			
	"SR" 210+39 TO 216+79	SB	36B		27								1,280		2 TRAFFIC STRIPES
	"SR" 209+14 TO 210+39	SB	38			5				125					
	"SR" 214+24 TO 215+92	SB	27B				168								
	"SR" 206+16 TO 215+92	SB	25	21				976							
	"SR" 206+16 TO 215+92	NB	25	21				976							
	"SR" 206+16 TO 215+92	NB	12A		21				976						
	"SR" 206+16 TO 215+92	NB	42		42							976			
	"SR" 213+69 TO 215+92	NB	12A		5				223						
	"SR" 206+16 TO 210+69	NB	37		32						453				
	"SR" 206+16 TO 210+24	NB	27B				408								
	"SR" 210+24 TO 215+92	NB	27B				568								
	"SR" 210+69 TO 213+69	NB	38B		26					300					
	"SR" 213+69 TO 216+69	NB	36		26								600		2 TRAFFIC STRIPES
		NB	18" CHEVRON STRIPE											129	
		SB	18" CHEVRON STRIPE											288	
		NB	HOV DIAMOND SYMBOL											22	2 EA
		SB	HOV DIAMOND SYMBOL											22	2 EA
SUBTOTAL				42	262	5	1,952	1,952	2,175	425	751	1,952	1,880	461	
SHEET GRAND TOTAL				309			3,904		2,175	425	751	1,952	1,880	461	
GRAND TOTAL FROM PAVEMENT DELINEATION QUANTITIES TABLE (EDWARDS Ave, CLEVELAND Ave, ARMORY Dr, ELLIOTT Ave)				212						460					
GRAND TOTAL				521			3,904		2,175	885	751	1,952	1,880	461	

PAVEMENT DELINEATION QUANTITIES
(EDWARDS Ave, CLEVELAND Ave, ARMORY Dr, ELLIOTT Ave)

SHEET No.	STATION LIMITS	DETAIL No. OR PAVEMENT MARKING	PAVEMENT MARKER RETROREFLECTIVE TYPE D YELLOW EA	PAVEMENT MARKER RETROREFLECTIVE TYPE G CLEAR EA	PAINT TRAFFIC STRIPE (1-COAT) 6" SOLID WHITE LF	6" SOLID YELLOW LF	6" BROKEN (36-12) LF	8" THERMOPLASTIC TRAFFIC STRIPE SOLID WHITE LF	THERMOPLASTIC PAVEMENT MARKING SQFT	DESCRIPTION/ COMMENTS
PD-1	"EE" 09+00 TO 10+10	22	20			224				ON EDWARDS Ave
	"EE" 10+21 TO 14+50	22	72			862				ON EDWARDS Ave
	"EE" 14+11 TO 14+50	38		2				39		ON EDWARDS Ave
	–	"STOP" MARKING							44	2 EA, ON EDWARDS Ave
	–	TYPE IV ARROW							30	2 EA, ON EDWARDS Ave
	–	CROSSWALK 12" WHITE							106	ON EDWARDS Ave
	–	CROSSWALK 2'x11' WHITE							154	ON EDWARDS Ave
	–	YIELD LINE							27	9 EA, ON EDWARDS Ave
	–	22	28			288				ON CLEVELAND Ave
	–	27B			395					ON CLEVELAND Ave
	–	32	31			580	580			ON CLEVELAND Ave
	–	38		11				245		ON CLEVELAND Ave
	–	39			144					ON CLEVELAND Ave
	–	TYPE IV ARROW							75	5 EA, ON CLEVELAND Ave
		BIKE LANE SYMBOL							7	ON CLEVELAND Ave
		BIKE LANE ARROW							3.5	ON CLEVELAND Ave
	–	22	44			520				ON ARMORY Dr
	–	39			346					ON ARMORY Dr
	–	38		4				85		ON ARMORY Dr
		41					81			ON ARMORY Dr
	–	"STOP" MARKING							66	3 EA, ON ARMORY Dr
	–	TYPE IV ARROW							15	ON ARMORY Dr
	–	CROSSWALK 12" WHITE							36	ON ARMORY Dr
SUBTOTAL			195	17	885	2,474	661	369	564	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	60	247

REGISTERED CIVIL ENGINEER — DATE 2-21-25

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — J.S. BHANDAL — No. 77430 — Exp. 6-30-25 — CIVIL — STATE OF CALIFORNIA

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.

BKF ENGINEERS
7901 STONERIDGE DRIVE, SUITE 360
PLEASANTON, CA 94588

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

REVISED BY	DATE REVISED
SD	2-21-25

CALCULATED-DESIGNED BY: STEVEN DAUTERMAN
CHECKED BY: CHEUNG WONG

CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

PAVEMENT DELINEATION AND SIGN QUANTITIES

PDQ-1

LAST REVISION 02-21-25 | DATE PLOTTED => Apr 29 2025 | TIME PLOTTED => 11:16 am

BORDER LAST REVISED 7/2/2010 | USERNAME => ahernandez | DGN FILE => nc_PDQ-01.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	61	247

REGISTERED CIVIL ENGINEER — DATE 2-21-25

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — J.S. BHANDAL — No. 77430 — Exp. 6-30-25 — CIVIL — STATE OF CALIFORNIA

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7901 STONERIDGE DRIVE, SUITE 360
PLEASANTON, CA 94588

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

PAVEMENT DELINEATION QUANTITIES
(EDWARDS Ave, CLEVELAND Ave, ARMORY Dr, ELLIOTT Ave)

SHEET No.	STATION LIMITS	DETAIL No. OR PAVEMENT MARKING	PAVEMENT MARKER		PAINT TRAFFIC STRIPE (1-COAT)			8" THERMOPLASTIC TRAFFIC STRIPE	THERMOPLASTIC PAVEMENT MARKING	DESCRIPTION/ COMMENTS
			RETROREFLECTIVE		6"					
			TYPE D	TYPE G	SOLID		BROKEN	SOLID WHITE		
			YELLOW	CLEAR	WHITE	YELLOW	(36-12)			
			EA	EA	LF	LF	LF	LF	SQFT	
PD-1	"EE" 17+54 TO 17+88	22	6			70				ON ELLIOTT Ave
	"EE" 17+54 TO 17+88	38		2				45		ON ELLIOTT Ave
		"STOP" MARKING							44	2 EA, ON ELLIOTT Ave
		CROSSWALK 12" WHITE							92	ON ELLIOTT Ave
		PARKING STALL							6	
PD-2	"EE" 17+88 TO 19+61	22	30			346				ON ELLIOTT Ave
	"EE" 20+25 TO 21+77	22	26			304				ON ELLIOTT Ave
	"EE" 17+88 TO 18+34	38		2				46		ON ELLIOTT Ave
		TYPE IV ARROW							30	2 EA, ON ELLIOTT Ave
		PARKING STALL							51	
SHEET TOTAL			62	4		720		91	223	
SHEET PDQ-1 TOTAL			195	17	885	2,474	661	369	564	
SUBTOTAL			257	21	885	3,194	661	460	787	
GRAND TOTAL			212*			4,740		460*	787**	

*QUANTITY INCLUDED IN PAVEMENT DELINEATION QUANTITIES TABLE ON SHEET PDQ-1.
**QUANTITY INCLUDED IN PAVEMENT DELINEATION QUANTITIES TABLE (BPOC) ON THIS SHEET.

PAVEMENT DELINEATION QUANTITIES
(BPOC)

SHEET No.	STATION LIMITS	DETAIL No. OR PAVEMENT MARKING	4" THERMOPLASTIC TRAFFIC STRIPE			6" THERMOPLASTIC TRAFFIC STRIPE	THERMOPLASTIC PAVEMENT MARKING	DESCRIPTION/ COMMENTS
			SOLID		BROKEN	SOLID WHITE		
			WHITE	YELLOW	YELLOW			
			LF	LF	LF	LF	SQFT	
PD-1	"EE" 10+25 TO 17+88	6" SOLID WHITE				763		
	"EE" 10+25 TO 17+88	4" SOLID WHITE	763					
	"EE" 10+25 TO 10+75	4" SOLID YELLOW		50				
	"EE" 10+75 TO 17+88	4" BROKEN YELLOW			713			
	"SR" 209+711 TO 211+42	4" BROKEN YELLOW			173			
		BIKE LANE SYMBOL					28	4 EA
		BIKE LANE ARROW					21	6 EA
		PEDESTRIAN SYMBOL					7	
		"SLOW" MARKING					5	
PD-2	"EE" 17+88 TO 21+31	6" SOLID WHITE				343		
	"EE" 17+88 TO 21+31	4" SOLID WHITE	343					
	"EE" 20+81 TO 21+31	4" SOLID YELLOW		50				
	"EE" 17+88 TO 20+81	4" BROKEN YELLOW			293			
		BIKE LANE SYMBOL					14	
		BIKE LANE ARROW					14	4 EA
		PEDESTRIAN SYMBOL					7	
		"SLOW" MARKING					5	
SUBTOTAL			1,106	100	1,179	1,106	101	
SHEET TOTAL			2,385			1,106	101	
GRAND TOTAL FROM PAVEMENT DELINEATION QUANTITIES TABLE (EDWARDS Ave, CLEVELAND Ave, ARMORY Dr, ELLIOTT Ave)							787	
GRAND TOTAL			2,385			1,106	888	

PAVEMENT DELINEATION AND SIGN QUANTITIES

PDQ-2

SD	2-21-25	STEVEN DAUTERMAN	CHEUNG WONG
REVISED BY	DATE REVISED	CALCULATED-DESIGNED BY	CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION 02-21-25 — DATE PLOTTED => Apr 29 2025 — TIME PLOTTED => 11:17 am

BORDER LAST REVISED 7/2/2010 | USERNAME => ahernandez | DGN FILE => nc_PDQ-02.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

NOTES:

1. EXACT LOCATION AND POSITION OF ROADSIDE SIGNS TO BE DETERMINED BY THE ENGINEER.
2. POST LENGTHS GIVEN ARE APPROXIMATE.
3. "C" DIM = VERTICAL CLEARANCE EP TO BOTTOM OF SIGN PANEL.

ROADSIDE SIGN QUANTITIES

SHEET NUMBER	SIGN NUMBER (SIGN-No.)	SIGN DESIGNATION	SIGN PANEL SIZE INCHES	"C" DIM IN FEET	POST LENGTH FEET	ROADSIDE SIGN (ONE POST) (2" I.D. GALVANIZED STEEL POST) EACH	REMOVE ROADSIDE SIGN EACH	REMARKS
PD-1	S1-1	W11-2	36 x 36	7	16	1		
		W16-9P	24 x 12					
	S1-2	R1-5L	36 x 36	7	15.5	1		
	S1-3	W11-2	36 x 36	7	16	1		2 SIGN PANELS (BACK TO BACK)
		W16-7P	24 x 12					
	S1-4	R1-5L	36 x 36	7	15.5	1		
	S1-5	R81 (CA)					1	
		R81B (CA)						
		R26 (CA)						
	S1-6	W11-2	36 x 36	7	16	1		2 SIGN PANELS (BACK TO BACK)
		W16-7P	24 x 12					
	S1-7	R26 (CA)					1	
	S1-8	W11-2	36 x 36	7	16	1		
		W16-9P	24 x 12					
	S1-9	BUS STOP SIGN					1	
	S1-10	R2-1(25)	30 x 36	7	17	1		
		R26 (CA)	12 x 18					
	S1-11	R81 (CA)					1	
		R2-1(25)						
	S1-12	R26 (CA)					1	
	S1-13	R1-1					1	
	S1-14	R1-1	36 x 36	7	15.5	1		
	S1-15	R26 (CA)	12 x 18	7	14	1		
	S1-16	W12-2 (13'-0")	36 x 36	7	15.5	1		
	S1-17	W12-2 (13'-0")	36 x 36	7	15.5	1		
	S1-18	PED/BIKE WAYFINDING SIGN	24 x 22	7	15.5	1		
	S1-19	PED/BIKE WAYFINDING SIGN	24 x 22	7	15.5	1		
	S1-20	PED/BIKE WAYFINDING SIGN	24 x 22	7	15.5	1		
	S1-21	PED/BIKE WAYFINDING SIGN	24 x 22	7	15.5	1		
	S1-22	R1-1	36 x 36					SIGN TO BE MOUNTED ON RELOCATED STREET LIGHT POLE
			TOTAL			15	6	

DELINEATORS

LOCATION	DELINEATOR (SPECIAL) (EA)	GUARD RAILING (CLASS 1) (EA)
	K-71	TYPE F
"SR" 210+44 TO 212+43	–	16
"SR" 209+71 TO 211+42 (ARMORY DR)	7	–
SUBTOTAL	7	16
GRAND TOTAL	7	16

(N) – NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

OBJECT MARKERS

LOCATION	MARKER (EA)
	TYPE P(CA)
"SR" 212+43	1
TOTAL	1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	62	247

REGISTERED CIVIL ENGINEER — DATE 2-21-25

REGISTERED PROFESSIONAL ENGINEER — J.S. BHANDAL — No. 77430 — Exp. 6-30-25 — CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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BKF ENGINEERS
7901 STONERIDGE DRIVE, SUITE 360
PLEASANTON, CA 94588

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

REVISED BY	DATE REVISED
SD	2-21-25

CALCULATED-DESIGNED BY: STEVEN DAUTERMAN
CHECKED BY: CHEUNG WONG

CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

PAVEMENT DELINEATION AND SIGN QUANTITIES

PDQ-3

LAST REVISION 02-21-25
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BORDER LAST REVISED 7/2/2010
USERNAME => ahernandez
DGN FILE => nc_PDQ-03.dwg
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0751
PROJECT NUMBER & PHASE 04130002131

NOTES:

1. EXACT LOCATION AND POSITION OF ROADSIDE SIGNS TO BE DETERMINED BY THE ENGINEER.
2. POST LENGTHS GIVEN ARE APPROXIMATE.
3. "C" DIM = VERTICAL CLEARANCE EP TO BOTTOM OF SIGN PANEL.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	63	247

2-21-25
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER
J.S. BHANDAL
No. 77430
Exp. 6-30-25
CIVIL
STATE OF CALIFORNIA

PLANS APPROVAL DATE

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PLEASANTON, CA 94588

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

ROADSIDE SIGN PANEL QUANTITIES

SHEET NUMBER	SIGN NUMBER (SIGN-No.)	SIGN DESIGNATION	SIGN MESSAGE/ DESCRIPTION	PANEL SIZE L x D	PANEL AREA	SINGLE FACED	BACKGROUND		LEGEND		PROTECTIVE OVERLAY	FURNISH SINGLE SHEET ALUMINUM SIGN
							SHEETING COLOR	RETROREFLECTIVE ASTM TYPE	SHEETING COLOR	RETROREFLECTIVE ASTM TYPE	PREMIUM	UNFRAMED
				INCHES	SQFT							0.063"
												SQFT
PD-1	S1-1	W11-2	PEDESTRIAN TRAFFIC	36 x 36	9.00	X	FLUORESCENT YELLOW-GREEN	XI	BLACK	PLAIN	X	9.00
		W16-9P	AHEAD	24 x 12	2.00	X	FLUORESCENT YELLOW-GREEN	XI	BLACK	PLAIN	X	2.00
	S1-2	R1-5L	YIELD HERE TO PEDESTRIANS	36 x 36	9.00	X	WHITE	IX	BLACK	PLAIN	X	9.00
	S1-3	W11-2	PEDESTRIAN TRAFFIC	36 x 36	9.00	X	FLUORESCENT YELLOW-GREEN	XI	BLACK	PLAIN	X	18.00
		W16-7P	DIAGONAL ARROW PLAQUE	24 x 12	2.00	X	FLUORESCENT YELLOW-GREEN	XI	BLACK	PLAIN	X	4.00
	S1-4	R1-5L	YIELD HERE TO PEDESTRIANS	36 x 36	9.00	X	WHITE	IX	BLACK	PLAIN	X	9.00
	S1-6	W11-2	PEDESTRIAN TRAFFIC	36 x 36	9.00	X	FLUORESCENT YELLOW-GREEN	XI	BLACK	PLAIN	X	18.00
		W16-7P	DIAGONAL ARROW PLAQUE	24 x 12	2.00	X	FLUORESCENT YELLOW-GREEN	XI	BLACK	PLAIN	X	4.00
	S1-8	W11-2	PEDESTRIAN TRAFFIC	36 x 36	9.00	X	FLUORESCENT YELLOW-GREEN	XI	BLACK	PLAIN	X	9.00
		W16-9P	AHEAD	24 x 12	2.00	X	FLUORESCENT YELLOW-GREEN	XI	BLACK	PLAIN	X	2.00
	S1-10	R2-1(25)	SPEED LIMIT (25)	30 x 36	7.50	X	WHITE	IX	BLACK	PLAIN	X	7.50
		R26 (CA)	NO PARKING ANY TIME	12 x 18	1.50	X	WHITE	IX	RED	PLAIN	X	1.50
	S1-14	R1-1	STOP	36 x 36	9.00	X	WHITE	IX	RED	PLAIN	X	9.00
	S1-15	R26 (CA)	NO PARKING ANY TIME	12 x 18	1.50	X	WHITE	IX	RED	PLAIN	X	1.50
	S1-16	W12-2 (13'-0")	VERTICAL CLEARANCE (13'-0")	36 x 36	9.00	X	YELLOW	XI	BLACK	PLAIN	X	9.00
	S1-17	W12-2 (13'-0")	VERTICAL CLEARANCE (13'-0")	36 x 36	9.00	X	YELLOW	XI	BLACK	PLAIN	X	9.00
	S1-18		PED/BIKE WAYFINDING SIGN	24 x 22	4.00	X	GREEN	XI	WHITE	PLAIN	X	4.00
	S1-19		PED/BIKE WAYFINDING SIGN	24 x 22	4.00	X	GREEN	XI	WHITE	PLAIN	X	4.00
	S1-20		PED/BIKE WAYFINDING SIGN	24 x 22	4.00	X	GREEN	XI	WHITE	PLAIN	X	4.00
	S1-21		PED/BIKE WAYFINDING SIGN	24 x 22	4.00	X	GREEN	XI	WHITE	PLAIN	X	4.00
	S1-22	R1-1	STOP	36 x 36	9.00	X	WHITE	IX	RED	PLAIN	X	9.00
PD-2	S2-1		PED/BIKE WAYFINDING SIGN	24 x 22	4.00	X	GREEN	XI	WHITE	PLAIN	X	4.00
	S2-2		PED/BIKE WAYFINDING SIGN	24 x 22	4.00	X	GREEN	XI	WHITE	PLAIN	X	4.00
	S2-3		PED/BIKE WAYFINDING SIGN	24 x 22	4.00	X	GREEN	XI	WHITE	PLAIN	X	4.00
											TOTAL	158.5

REVISED BY	DATE REVISED
SD	2-21-25

CALCULATED-DESIGNED BY: STEVEN DAUTERMAN
CHECKED BY: CHEUNG WONG

CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

PAVEMENT DELINEATION AND SIGN QUANTITIES

PDQ-4

LAST REVISION 02-21-25
DATE PLOTTED => Apr 29 2025
TIME PLOTTED => 11:17 am

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	64	247

REGISTERED CIVIL ENGINEER — DATE 2-21-25

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — J.S. BHANDAL — No. 77430 — Exp. 6-30-25 — CIVIL — STATE OF CALIFORNIA

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BKF ENGINEERS
7901 STONERIDGE DRIVE, SUITE 360
PLEASANTON, CA 94588

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

REMOVE CONCRETE (CURB AND GUTTER)

SHEET No.	STATION LIMITS	REMOVE CONCRETE (CURB AND GUTTER)
		LF
L-1	"EE" 9+18.06 TO 13+49.93	434.3
L-1	"EE" 9+89.85 TO 10+41.31	51.5
L-2	"EE" 13+49.93 TO 14+68.87	131.8
L-2	"EE" 15+13.73 TO 15+21.24	34.8
L-2	"EE" 17+22.13 TO 18+01.58	108.8
L-3	"EE" 20+90.28 TO 21+44.11	58.3
L-3	"EE" 20+90.28 TO 21+82.16	91.9
	TOTAL	911.4

REMOVE CONCRETE (CURB)

SHEET No.	STATION LIMITS	REMOVE CONCRETE (CURB)
		LF
L-1	"EE" 9+99.91 TO 10+08.65	16.7
L-1	"EE" 12+37.79 TO 12+46.28	15.2
L-1	"EE" 12+72.30	2.7
L-1	"EE" 20+90.28 TO 21+44.11	2.7
	TOTAL	34.6

REMOVE CONCRETE (SIDEWALK AND DRIVEWAY)

SHEET No.	STATION LIMITS	REMOVE CONCRETE (SW)	REMOVE CONCRETE (DWY)
		CY	CY
L-1	"EE" 9+12.87 TO 13+49.93	43.1	9.8
L-1	"EE" 10+13.16 TO 10+18.16	1.3	
L-2	"EE" 13+49.93 TO 14+68.87	17.4	
L-2	"EE" 17+20.22 TO 18+01.58	6.6	
L-3	"EE" 20+90.28 TO 21+82.16	7.3	3.2
	SUBTOTAL	75.7	13.0
	TOTAL	88.7	

MIDWEST GUARDRAIL SYSTEM

SHEET No.	STATION LIMITS	SIDE	LAYOUT (N)	MGS	END ANCHOR ASSEMBLY (TYPE SFT-M)	ALTERNATIVE IN-LINE TERMINAL TL-3
				LF	EA	EA
L-2	"SR" 210+41.39 TO 212+43.41	Lt	16A	200	1	1
			TOTAL	200	1	1

VEGETATION CONTROL

SHEET No.	STATION LIMITS	SIDE	VEGETATION CONTROL (MINOR Conc)
			SQYD
L-2	"SR" 210+31.29 TO 212+44.53	Lt	113
		TOTAL	113

ROADWAY EXCAVATION

SHEET No.	STATION LIMITS	CY
L-1	"EE" 9+17.97 TO 13+50.14	150
	"EE" 10+13.12 TO 10+18.12	16
L-2	"EE" 13+50.14 TO 14+79.59	60
	"EE" 15+12.55 TO 15+19.69	9
	"EE" 17+19.23 TO 18+01.72	34
	"EE" 17+36.34 TO 18+50	61
L-3	"EE" 18+50 TO 19+87.39	50
	"EE" 20+90.46 TO 21+82.19	53
FROM LINEAR BIORETENTION AREA		239
FROM EXISTING BUS PAD		37
TOTAL		709

PRE/POST CONSTRUCTION SURVEYS

SHEET No.	CURB RAMP No.	EACH
L-1	CURB RAMP No. 1	1
L-1	CURB RAMP No. 2	1
L-1	CURB RAMP No. 3	1
L-2	CURB RAMP No. 4	1
L-2	CURB RAMP No. 5	1
	TOTAL	5

SUMMARY OF QUANTITIES

Q-1

REVISED BY	DATE REVISED
TM	2-21-25

CALCULATED-DESIGNED BY: TRENT MCGOWAN
CHECKED BY: CARMELO CECILIO
CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION 02-21-25
DATE PLOTTED => Apr 29 2025
TIME PLOTTED => 11:17 am

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	65	247

REGISTERED CIVIL ENGINEER — DATE 2-21-25

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — J.S. BHANDAL — No. 77430 — Exp. 6-30-25 — CIVIL — STATE OF CALIFORNIA

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.

BKF ENGINEERS
7901 STONERIDGE DRIVE, SUITE 360
PLEASANTON, CA 94588

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

CHAIN LINK FENCE (TYPE CL-6)

SHEET No.	CHAIN LINK FENCE (TYPE CL-6)
	LF
L-2	40
TOTAL	40

REMOVE CHAIN LINK FENCE

SHEET No.	CHAIN LINK FENCE
	LF
L-2	45
TOTAL	45

DETECTABLE WARNING SURFACE

SHEET No.	STATION	AREA
		SQFT
L-1	18.31′ R† "EE" 10+15.23	12
L-1	49.38′ R† "EE" 10+15.66	12
L-1	14.60′ L† "EE" 12+21.33	12
L-2	1.24′ R† "EE" 14+56.79	12.4
L-2	30.70′ L† "EE" 17+41.49	15.6
	TOTAL	64

SMALL ROCK SLOPE PROTECTION

SHEET No.	STATION	CY
L-1	3.91′ L† "EE" 13+32.77	0.086
L-2	4.45′ R† "EE" 15+21.75	0.086
L-2	3.02′ R† "EE" 17+58.75	0.086
L-3	8.88′ L† "EE" 19+34.75	0.086
	TOTAL	0.35

COLD PLANE ASPHALT CONCRETE PAVEMENT

SHEET No.	STATION LIMITS	SIDE	SQYD
L-1 TO L-2	"EE" 9+17.98 TO 14+98.01	R†/L†	1699
L-1 TO L-2	"EE" 14+71.41 TO 15+13.42	R†	134
	TOTAL		1834

MINOR CONCRETE (CURB RAMP)

SHEET No.	STATION	CY
L-1	18.31′ R† "EE" 10+15.23	1.1
L-1	49.38′ R† "EE" 10+15.66	0.3
L-1	14.60′ L† "EE" 12+21.33	0.2
L-2	1.24′ R† "EE" 14+56.79	0.9
L-2	30.70′ L† "EE" 17+41.49	1.6
L-3	31.68′ L† "EE" 21+69.98	0.4
	TOTAL	4.5

HOT MIX ASPHALT

SHEET No.	STATION LIMITS	SIDE	HMA (TYPE A)
			TON
	12" FULL DEPTH		
L-1 TO L-2	"EE" 9+17.98 TO 14+79.59	R†/L†	134.5
L-1	"EE" 10+13.13 TO 10+18.13	R†	0.4
L-2	"EE" 15+11.78 TO 15+19.29	R†/L†	15.7
L-2	"EE" 17+20.20 TO 18+01.72	R†/L†	69.3
L-2 TO L-3	"EE" 17+36.34 TO 19+87.39	R†/L†	224.6
L-3	"EE" 20+90.47 TO 21+82.20	L†	87.0
	2" HMA-A OVERLAY		
L-1 TO L-2	"EE" 9+17.98 TO 14+98.01	R†/L†	194.9
L-2	"EE" 14+71.41 TO 15+13.42	R†/L†	15.3
FROM DRAINAGE QUANTITIES			91.0
	TOTAL		832.7

MINOR CONCRETE (CURB, GUTTER, SIDEWALK, AND DRIVEWAY)

SHEET No.	STATION LIMITS	DRIVEWAY	SIDEWALK	CURB	CURB & GUTTER	CI 2 AB	SAND BEDDING
		CY	CY	CY	CY	CY	CY
L-1 TO L-2	"EE" 9+17.94 TO 14+68.87	21.1	45.0	2.5	32.6	13.2	22.5
L-1	"EE" 10+13.16 TO 10+18.16		0.9		0.3	0.1	0.5
L-2	"EE" 15+13.73 TO 15+21.24				2.0	0.8	
L-2	"EE" 17+22.13 TO 18+01.58		5.4		6.1	2.4	2.7
L-2 TO L-3	"EE" 17+52.23 TO 19+87.39			13.7		3.6	
L-3	"EE" 19+37.25 TO 21+82.20		30.4				15.2
L-3	"EE" 20+86.50 TO 21+87.15		8.7		5.3	2.0	4.3
	SUBTOTAL	21.1	90.4	16.2	46.3		
FROM DRAINAGE QUANTITIES						45.0	17.7
	TOTAL	173.9				67.1	62.9

SUMMARY OF QUANTITIES

Q-2

REVISED BY	TM	CALCULATED-DESIGNED BY	TRENT MCGOWAN
DATE REVISED	2-21-25	CHECKED BY	CARMELO CECILIO

CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 02-21-25 | DATE PLOTTED => Apr 29 2025 | TIME PLOTTED => 11:18 am

BORDER LAST REVISED 7/2/2010 | USERNAME => ahernandez | DGN FILE => pa_Q-02.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	66	247

REGISTERED CIVIL ENGINEER — DATE 2-21-25

REGISTERED PROFESSIONAL ENGINEER — J.S. BHANDAL — No. 77430 — Exp. 6-30-25 — CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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BKF ENGINEERS
7901 STONERIDGE DRIVE, SUITE 360
PLEASANTON, CA 94588

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

REMOVE WATER LINE

SHEET No.	STATION LIMITS	LENGTH
		LF
U-2	"EE" 13+79.82 TO 13+80.07	17.1
U-2	"EE" 13+84.95 TO 13+85.07	8.4
U-2	"EE" 16+88.35 TO 16+95.08	26.0
U-2	"EE" 17+21.35 TO 17+29.54	31.0
	TOTAL	82.5

REMOVE SANITARY SEWER

SHEET No.	STATION LIMITS	LENGTH
		LF
U-1	"EE" 10+20.00 TO 11+43.33	123.3
U-1	"EE" 11+42.19 TO 11+43.33	3.3
U-1	"EE" 11+43.33 TO 11+50.01	6.8
	TOTAL	133.4

ABANDON SANITARY SEWER PIPE

SHEET No.	STATION	SIDE	LENGTH
			LF
U-1	"EE" 9+42.23 TO 10+20	R†	78
U-1	"EE" 11+36.49 TO 11+42.19	R†	15
U-1	"EE" 11+50.01 TO 12+59.13	R†	110
		TOTAL	203

REMOVE SANITARY SEWER MANHOLE

SHEET No.	STATION	EACH
U-1	"EE" 11+43.33	1
	TOTAL	1

6" SEWER LATERAL

SHEET No.	STATION	SIDE	EACH
U-1	"EE" 9+43	R†	1
		TOTAL	1

REMOVE GAS LINE

SHEET No.	STATION	SIDE	LENGTH
			LF
U-3	"EE" 18+78.29 TO 19+89.71	L†/R†	47
U-3	"EE" 20+83.69 TO 21+02.44	L†/R†	75
		TOTAL	122

INSTALL FIRE HYDRANT SYSTEM

SHEET No.	STATION	SIDE	EACH
U-2	"EE" 13+69.41	R†	1
		TOTAL	1

INSTALL FIRE SERVICE

SHEET No.	STATION	SIDE	EACH
U-2	"EE" 13+75.25	R†	1
		TOTAL	1

REMOVE FIRE HYDRANT

SHEET No.	STATION	SIDE	EACH
U-2	"EE" 13+73.76	R†	1
		TOTAL	1

REMOVE FIRE SERVICE

SHEET No.	STATION	SIDE	EACH
U-2	"EE" 13+73.76	R†	1
		TOTAL	1

1" WATER SERVICE

SHEET No.	STATION	SIDE	EACH
U-2	"EE" 13+88.69 TO 13+88.69	R†	1
		TOTAL	1

8" COMBINATION WATER SERVICE

SHEET No.	STATION	SIDE	EACH
U-2	"EE" 13+75.74 TO 13+79.81	R†/L†	1
		TOTAL	1

6" WATER LINE

SHEET No.	STATION	SIDE	LENGTH
			LF
U-3	"EE" 16+88.41 TO 16+95.08	R†	25
U-3	"EE" 17+21.35 TO 17+29.53	L†	31
		TOTAL	56

SUMMARY OF QUANTITIES

Q-3

REVISED BY	DATE REVISED
TM	2-21-25

TRENT MCGOWAN — CARMELO CECILIO — CALCULATED-DESIGNED BY — CHECKED BY

JAGGI S. BHANDAL — CONSULTANT FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 02-21-25 — DATE PLOTTED => Apr 29 2025 — TIME PLOTTED => 11:18 am

BORDER LAST REVISED 7/2/2010 — USERNAME => ahernandez — DGN FILE => pa_Q-03.dwg — RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 — UNIT 0751 — PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	67	247

MAURA BALDWIN #5802 02/21/25
LICENSED LANDSCAPE ARCHITECT 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.

LICENSED LANDSCAPE ARCHITECT MAURA BALDWIN No. 5802 9/30/26 02/21/25 STATE OF CALIFORNIA

PANORAMIC DESIGN GROUP
3060 EL CERRITO PLAZA #528
EL CERRITO, CA 94530

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

PLANT REMOVAL NOTES

1. Exist TREES TO BE REMOVED ON EDWARDS AVE, SHEET PR-2, AS SHOWN ON GOOGLE STREET VIEW DATED MARCH 2024 TO BE VERIFIED IN FIELD.
2. Exist MULCH TO REMAIN

PLANT REMOVAL LEGEND:

Exist TREES TO BE REMOVED

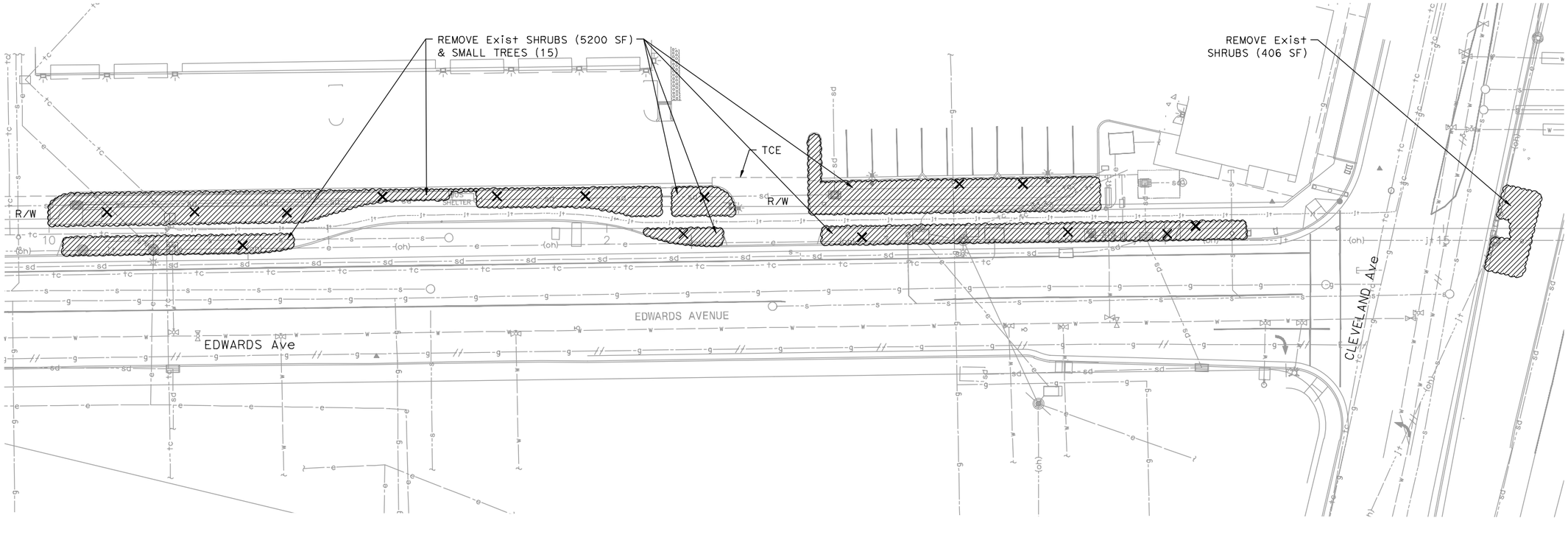
Exist GROUNDCOVER TO BE REMOVED

—THVF— TREE PROTECTION FENCE (TEMPORARY HIGH VISIBILITY CHAINLINK FENCE)

TREE PROTECTION ZONE

ABBREVIATIONS:

DBH DIAMETER AT BREAST HEIGHT
S SMALL
M MEDIUM
L LARGE
XL EXTRA LARGE



PLANT REMOVAL PLAN

SCALE: 1" = 20'

PR-1

CALCULATED–DESIGNED BY		
CHECKED BY	MAURA BALDWIN	
REVISED BY	MB	02/21/25
DATE REVISED		

CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL

STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 02-21-25 | DATE PLOTTED => | TIME PLOTTED =>

BORDER LAST REVISED 7/2/2010 | USERNAME => | DGN FILE => | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	68	247

MAURA BALDWIN #5802 02/21/25
LICENSED LANDSCAPE ARCHITECT DATE

PLANS APPROVAL DATE

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LICENSED LANDSCAPE ARCHITECT MAURA BALDWIN No. 5802 9/30/26 02/21/25 STATE OF CALIFORNIA

PANORAMIC DESIGN GROUP
3060 EL CERRITO PLAZA #528
EL CERRITO, CA 94530

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

PLANT REMOVAL NOTES

1. Exist TREES TO BE REMOVED ON EDWARDS AVE, SHEET PR-2, AS SHOWN ON GOOGLE STREET VIEW DATED MARCH 2024 TO BE VERIFIED IN FIELD.
2. Exist MULCH TO REMAIN

PLANT REMOVAL LEGEND:

Exist TREES TO BE REMOVED

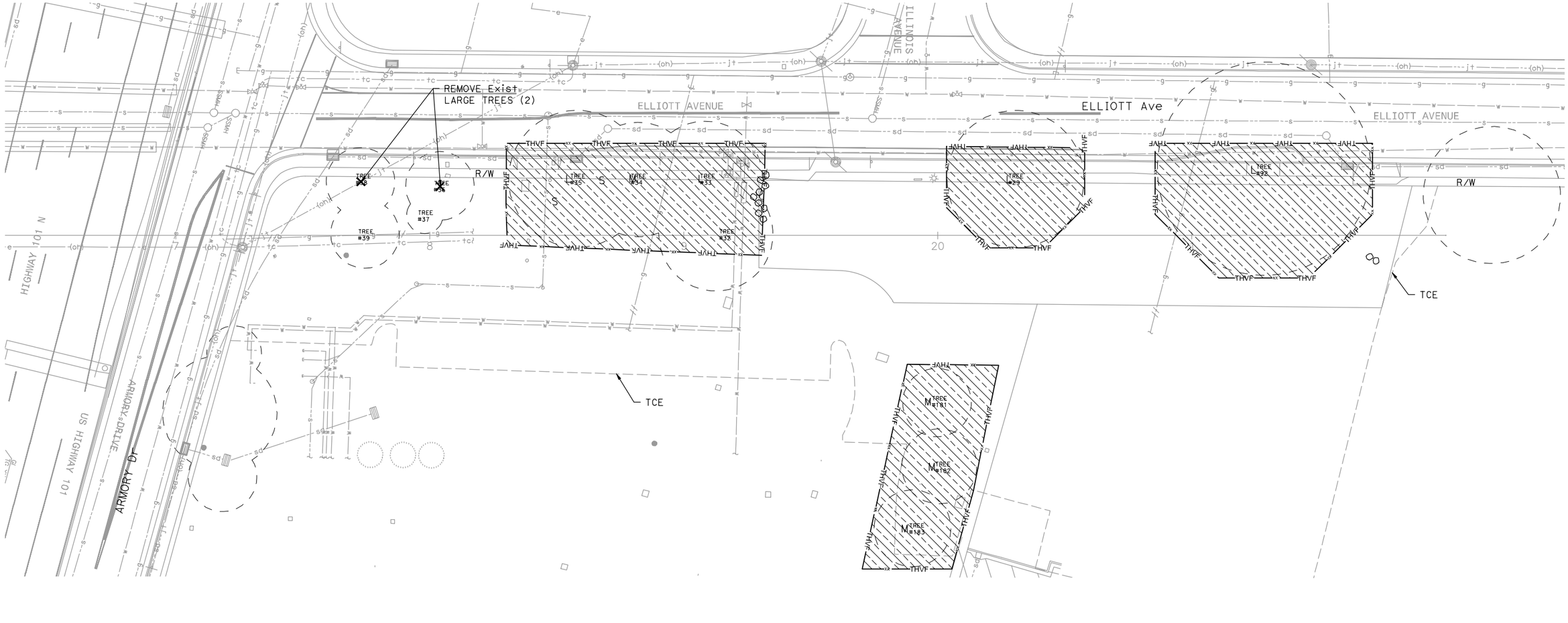
Exist GROUNDCOVER TO BE REMOVED

—THVF— TREE PROTECTION FENCE (TEMPORARY HIGH VISIBILITY CHAINLINK FENCE)

TREE PROTECTION ZONE

ABBREVIATIONS:

DBH DIAMETER AT BREAST HEIGHT
S SMALL
M MEDIUM
L LARGE
XL EXTRA LARGE



PLANT REMOVAL PLAN

SCALE: 1" = 20'

PR-2

STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION
CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL
CALCULATED–DESIGNED BY
CHECKED BY
MAURA BALDWIN
MAURA BALDWIN
REVISED BY: MB
DATE REVISED: 02/21/25

LAST REVISION 02-21-25
DATE PLOTTED =>
TIME PLOTTED =>

BORDER LAST REVISED 7/2/2010
USERNAME =>
DGN FILE =>
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0751
PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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MAURA BALDWIN #5802 02/21/25
LICENSED LANDSCAPE ARCHITECT DATE

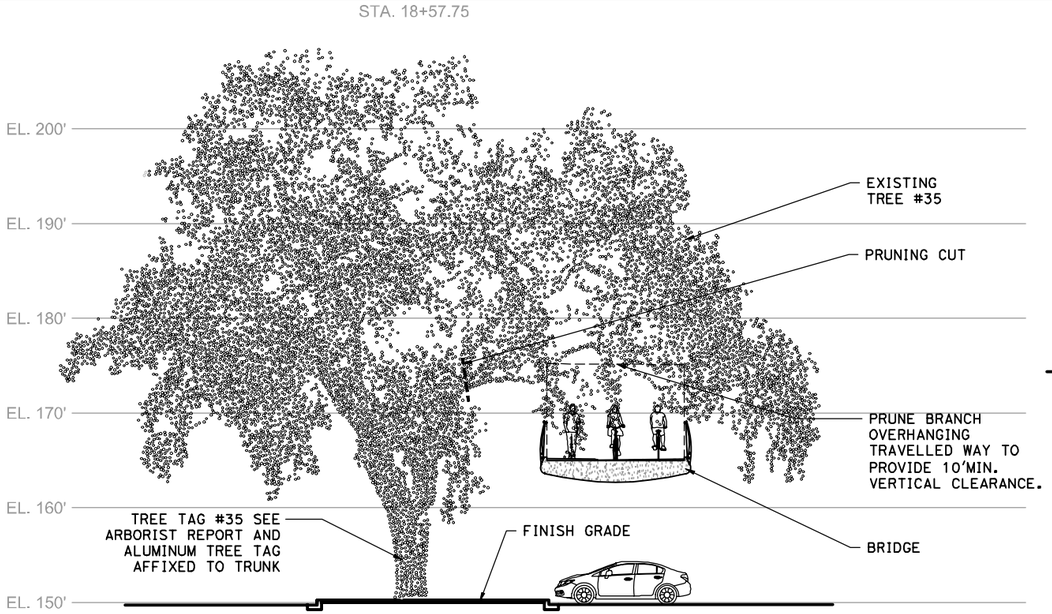
PLANS APPROVAL DATE

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LICENSED LANDSCAPE ARCHITECT — MAURA BALDWIN — No. 5802 — 9/30/26 — 02/21/25 — STATE OF CALIFORNIA

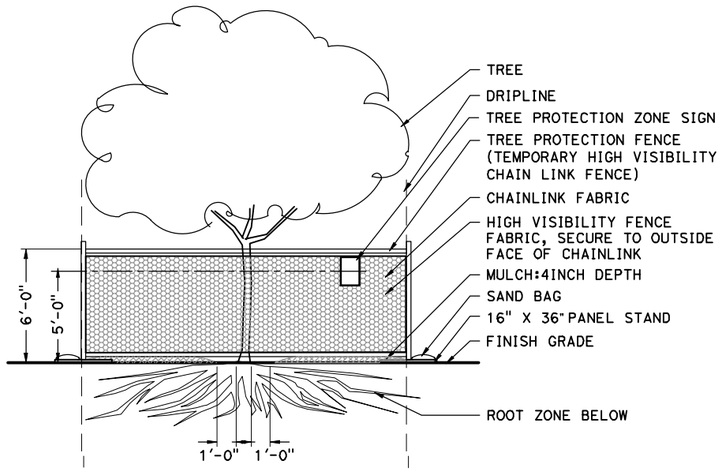
PANORAMIC DESIGN GROUP
3060 EL CERRITO PLAZA #528
EL CERRITO, CA 94530

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

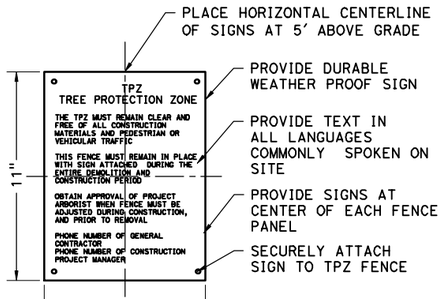


CROSS SECTION AT Sta 18+38 TO 18+94

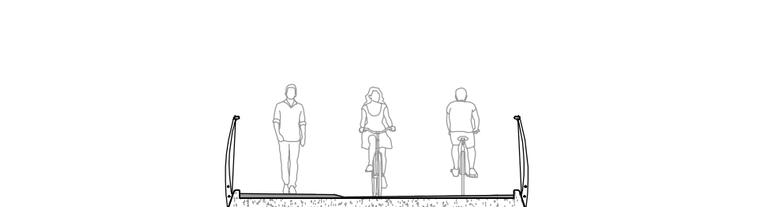
PRUNE EXISTING TREE



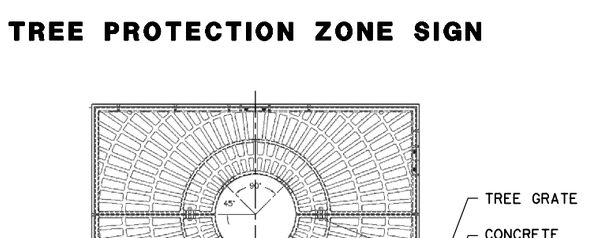
TREE PROTECTION



TREE PROTECTION ZONE SIGN



TYPICAL SECTION ALONG APPROACH WALLS



TREE GRATE AND FRAME

LANDSCAPE DETAILS

NO SCALE

LD-1

STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL

CALCULATED–DESIGNED BY: MAURA BALDWIN
CHECKED BY: MAURA BALDWIN
REVISED BY: MB — DATE REVISED: 02/21/25

LAST REVISION 02-21-25 — DATE PLOTTED => — TIME PLOTTED =>

BORDER LAST REVISED 7/2/2010 | USERNAME => | DGN FILE => | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	70	247

MAURA BALDWIN #5802 02/21/25
LICENSED LANDSCAPE ARCHITECT DATE

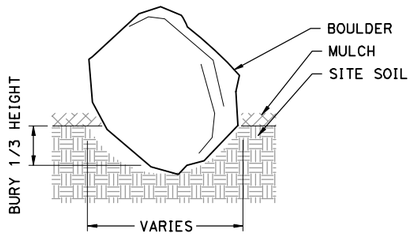
PLANS APPROVAL DATE

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LICENSED LANDSCAPE ARCHITECT MAURA BALDWIN No. 5802 9/30/26 02/21/25 STATE OF CALIFORNIA

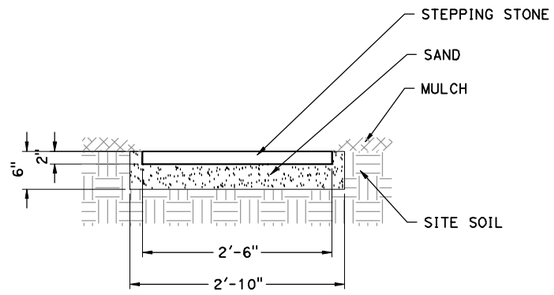
PANORAMIC DESIGN GROUP
3060 EL CERRITO PLAZA #528
EL CERRITO, CA 94530

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

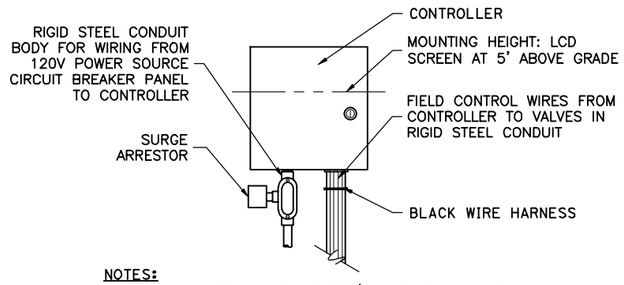


PLACE AT AN ANGLE THAT IS NOT SUITABLE FOR SEATING

BOULDER PLACEMENT

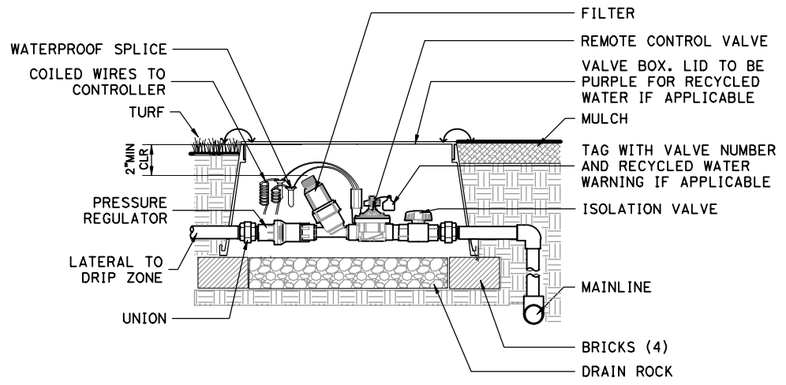


STEPPING STONE

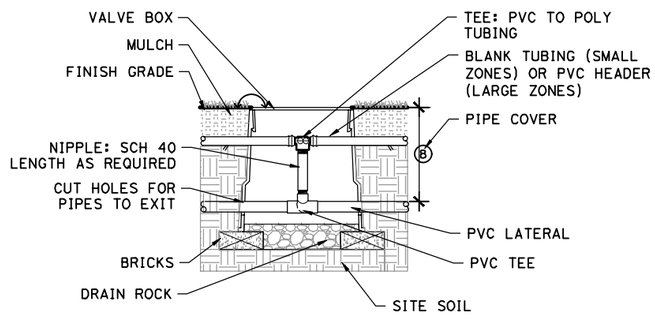


NOTES:
1. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
2. CONNECT CONTROLLER TO EXISTING POWER.
3. ELECTRICAL CONNECTION AND GROUNDING MUST BE PERFORMED BY LICENSED ELECTRICION.

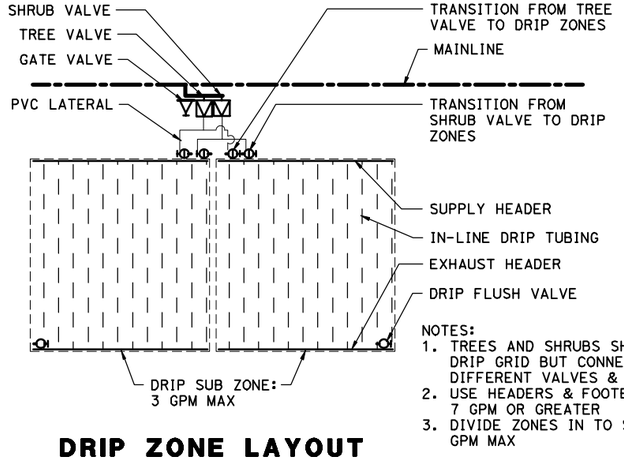
CONTROLLER- EXTERIOR WALL MOUNTED



DRIP VALVE ASSEMBLY

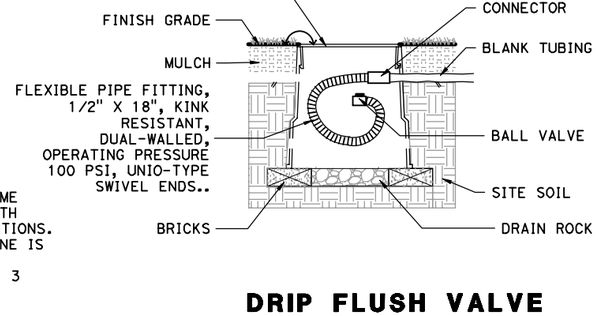


DRIP TRANSITION



NOTES:
1. TREES AND SHRUBS SHARE THE SAME DRIP GRID BUT CONNECT TO IT WITH DIFFERENT VALVES & DRIP TRANSITIONS.
2. USE HEADERS & FOOTERS WHEN ZONE IS 7 GPM OR GREATER
3. DIVIDE ZONES IN TO SUBZONES OF 3 GPM MAX

DRIP ZONE LAYOUT



DRIP FLUSH VALVE

LANDSCAPE DETAILS

NO SCALE

LD-2

LAST REVISION 02-21-25 | DATE PLOTTED => | TIME PLOTTED =>

REVISED BY	DATE REVISED
MB	02/21/25

CALCULATED-DESIGNED BY	CHECKED BY
MAURA BALDWIN	MAURA BALDWIN

CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

BORDER LAST REVISED 7/2/2010 | USERNAME => | DGN FILE => | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	71	247

MAURA BALDWIN #5802 02/21/25
LICENSED LANDSCAPE ARCHITECT DATE

PLANS APPROVAL DATE

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LICENSED LANDSCAPE ARCHITECT MAURA BALDWIN No. 5802 — 9/30/26 — 02/21/25 — STATE OF CALIFORNIA

PANORAMIC DESIGN GROUP
3060 EL CERRITO PLAZA #528
EL CERRITO, CA 94530

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

NOTE:

NO SPRINKLERS USED ON THIS PROJECT.
SPRINKLER SCHEDULE DELETED.

SUMMARY OF HYDROZONES

	HYDROZONE AREA			
ZONE #	PLANT TYPE	SOLAR ORIENTATION	WUCOLS WATER USE	ROOTING DEPTH
H1	TREES	FULL SUN	L	DEEP
H2	SHRUBS	"	L	MODERATE
H3	TREES	PART SHADE	L	DEEP
H4	SHRUBS	"	L	MODERATE

WATER EFFICIENT LANDSCAPE WORKSHEET								
Santa Rosa BPOC								
Reference Evapotranspiration (ET0)			41.90					
ETWU: ESTIMATED TOTAL WATER USE=ETWU=ET0 X 0.62 X [((PF X HA) / IE) + SLA]								
HYDROZONE	PLANTING DESCRIPTION	PLANT FACTOR	IRRIGATION METHOD	IRRIGATION EFFICIENCY (IE)	ETAF (PF/IE)	LANDSCAPE AREA (SF)	ETAF X AREA	ETWU (GAL/YR)
Regular Landscape Areas								
1	trees	0.20	drip	0.81	0.25	4,654	1,149	9,297
2	shrubs	0.20	drip	0.81	0.25	5,705	1,409	36,594
3	trees	0.20	drip	0.81	0.25	3,080	760	19,756
4	shrubs	0.20	drip	0.81	0.25	3,080	760	19,756
SUBTOTAL					0.25	16,519	4,079	85,403
Special Landscape Areas (SLA)								
N/A				1.00	0.00	0	0	0
SUBTOTAL					0.00	0	0	0
TOTALS						16,519	4,079	85,403
ETWU TOTAL							ETWU	85,403
MAWA: MAXIMUM ALLOWED WATER USE = (ET0)(0.62) [(ETAF X LA) + ((1-ETAF) X SLA)]								
ET0	CONVERSION FACTOR	ETAF	ETAF X LA = D	1-ETAF X SLA = E	D+E			MAWA (GAL/YR)
41.90	0.62	0.45	7,433.55	0.00	7,433.55		MAWA	193,109
							ETWU COMPLIES WITH MAWA	
ETWU AVERAGE ETAF MUST BE: RESIDENTIAL: < .55, NON-RESIDENTIAL: <.45								
MAWA ETAF: RESIDENTIAL= 0.55, NON-RESIDENTIAL= 0.45								
PLANT FACTOR: VL=0-0.1, L=0.2-0.3, M=0.4-0.6, H=0.7-1.0								
IRRIGATION EFFICIENCY (IE): SPRAY=.75, DRIP=.81								
MAX ALLOWED LAWN AREA = 25			ACTUAL LAWN AREA = 0%					

IRRIGATION SPRINKLER SCHEDULE

ISS-1

MB	02/21/25			
REVISED BY	DATE REVISED			
MAURA BALDWIN	MAURA BALDWIN			
CALCULATED–DESIGNED BY	CHECKED BY			
CONSULTANT FUNCTIONAL SUPERVISOR	JAGGI S. BHANDAL			
STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION	Caltrans			

LAST REVISION 02-21-25 | DATE PLOTTED = | TIME PLOTTED =

BORDER LAST REVISED 7/2/2010 | USERNAME => | DGN FILE => | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	72	247

MAURA BALDWIN #5802 02/21/25
LICENSED LANDSCAPE ARCHITECT 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.

LICENSED LANDSCAPE ARCHITECT — MAURA BALDWIN — No. 5802 — 9/30/26 — 02/21/25 — STATE OF CALIFORNIA

PANORAMIC DESIGN GROUP
3060 EL CERRITO PLAZA #528
EL CERRITO, CA 94530

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

IRRIGATION NOTES

1. IRRIGATION SYSTEM IS SHOWN DIAGRAMMATICALLY. ADJUST IN FIELD TO AVOID CONFLICTS WITH TREES, UTILITIES AND OTHER SITE FEATURES.
2. INFILL HATCHES ARE REPRESENTATIVE AND NOT TO SCALE.
3. ROUTING OF THE CONTROL AND NEUTRAL CONDUCTORS SHALL BE THE SAME AS THE MAIN SUPPLY LINE UNLESS OTHERWISE SHOWN.
4. ALL MAIN SUPPLY LINE IS 2" UNLESS OTHERWISE NOTED.
5. ALL LATERAL SUPPLY LINE IS 1" UNLESS OTHERWISE NOTED.
6. PROVIDE A SEPARATE DEDICATED MAINLINE FOR QUICKCOUPLERS TO AVOID CONFLICTS WITH FLOW SENSOR.
7. TREES AND SHRUBS SHARE THE SAME DRIP GRID BUT CONNECT TO IT WITH SEPARATE VALVES & DRIP TRANSITIONS.
8. USE HEADERS & FOOTERS WHEN ZONE IS 7 GPM OR GREATER
9. DIVIDE ZONES IN TO SUBZONES OF 3 GPM MAX
10. EQUIPMENT, DETAILS AND SPECIFICATIONS WITHIN DICK'S ROW TO MATCH DICK'S EXISTING
11. EQUIPMENT, DETAILS AND SPECIFICATIONS WITHIN CITY OF SANTA ROSA ROW TO MATCH CITY'S REQUIREMENTS
12. CONTRACTOR TO COORDINATE EXISTING PRIVATE IRRIGATION POINT OF CONNECTION WITH DICKS SPORTING GOODS
13. ALL IRRIGATION WITHIN CITY RIGHT OF WAY TO BE SERVED SEPARATELY FROM DICK'S SPORTING GOODS IRRIGATION SYSTEM THROUGH NEW IRRIGATION SERVICE FROM EDWARDS AVENUE.

IRRIGATION LEGEND

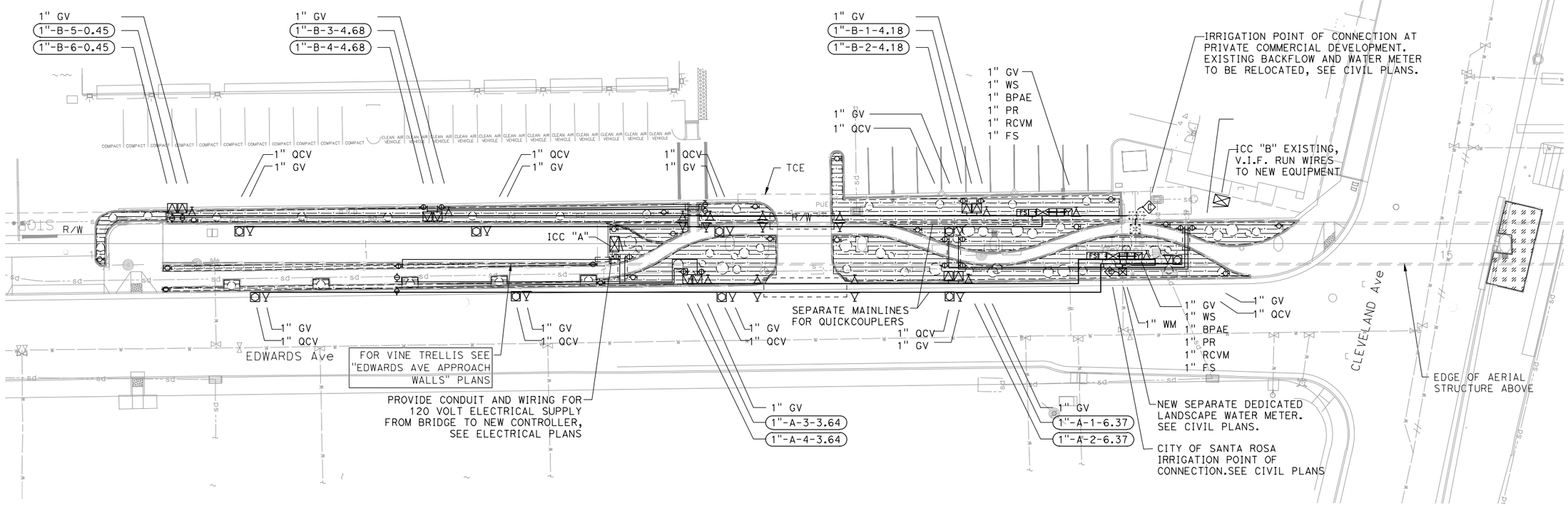
—H1— HYDROZONE

AREA OF TEMPORARY IRRIGATION BY RECYCLED WATER TRUCK DURING CONSTRUCTION AND DURING PLANT ESTABLISHMENT

DRIP TRANSITION, FROM LATERAL TO DRIP TUBING

DRIP ZONE

DRIP FLUSH VALVE



IRRIGATION PLAN

SCALE: 1" = 20'

IP-1

REVISED BY	DATE REVISED
MB	02/21/25

CALCULATED–DESIGNED BY: MAURA BALDWIN
CHECKED BY: MAURA BALDWIN
CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL
STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION

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MAURA BALDWIN #5802 02/21/25
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PANORAMIC DESIGN GROUP
3060 EL CERRITO PLAZA #528
EL CERRITO, CA 94530

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

IRRIGATION NOTES - SANTA ROSA JUNIOR COLLEGE

1. EQUIPMENT, DETAILS AND SPECIFICATIONS TO COMPLY WITH SRJC REQUIREMENTS.
2. THIS PLAN ASSUMES REVISING THE EAST-WEST MAINLINE PARALLEL TO ELLIOTT INTO TWO SEPARATE NORTH-SOUTH BRANCHES.
3. CONNECT TO EXISTING SRJC RECYCLED WATER SYSTEM.
4. ALL IRRIGATION EQUIPMENT IN SRJC ROW TO BE PURPLE AND LABELLED "RECYCLED WATER, DO NOT DRINK".
5. THIS PLAN ASSUMES THAT THE CONTROLLER WILL BE UPSIZED TO PROVIDE FOR 11 ADDITIONAL STATIONS
6. VALVES MUST PROVIDE FLOW RATES FROM 1-11 GPM

IRRIGATION LEGEND

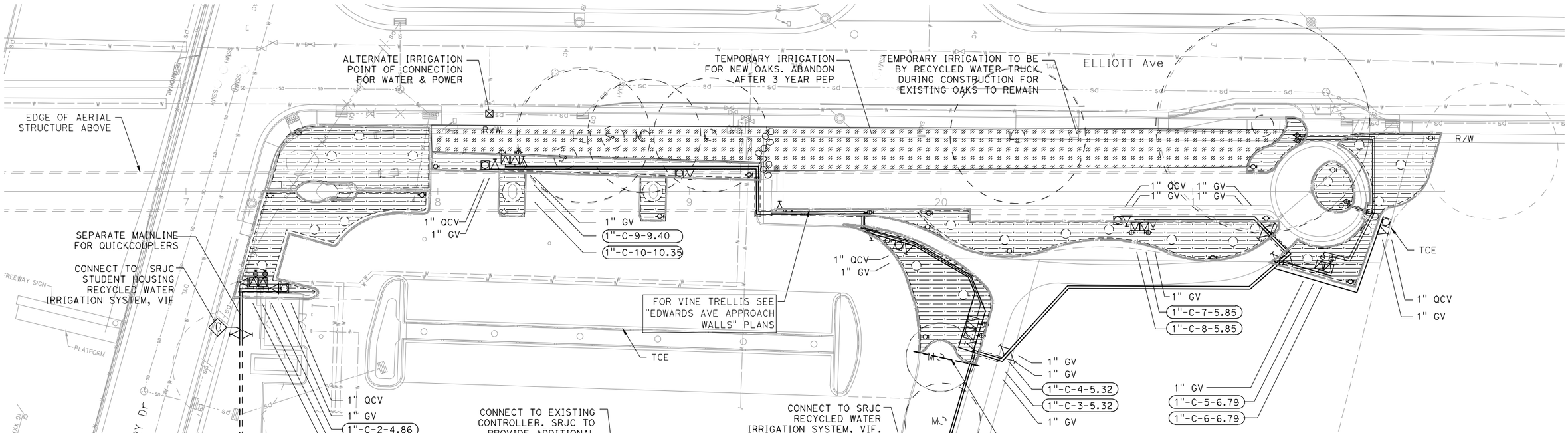
—H1— HYDROZONE

AREA OF TEMPORARY IRRIGATION BY RECYCLED WATER TRUCK DURING CONSTRUCTION AND DURING PLANT ESTABLISHMENT

DRIP TRANSITION, FROM LATERAL TO DRIP TUBING

DRIP ZONE

DRIP FLUSH VALVE



IRRIGATION PLAN

SCALE: 1" = 20'

IP-2

REVISED BY	MB				
DATE REVISED	02/21/25				
MAURA BALDWIN					
MAURA BALDWIN					
CALCULATED-DESIGNED BY					
CHECKED BY					
CONSULTANT FUNCTIONAL SUPERVISOR	JAGGI S. BHANDAL				
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans				

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NOTE:

BLANK CELLS INDICATE ITEM NOT USED

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04	Son	101	21.5	74	247

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PANORAMIC DESIGN GROUP
3060 EL CERRITO PLAZA #528
EL CERRITO, CA 94530

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

IRRIGATION QUANTITY (MAIN SUPPLY SIDE OF CONTROL VALVE)

SHEET No.	IRRIGATION CONTROLLER (WALL MOUNTED)	CONTROL & NEUTRAL CONDUCTORS	COPPER PIPE (SUPPLY LINE)	WYE STRAINER ASSEMBLY	1" BACKFLOW PREVENTER ASSEMBLY	BACKFLOW PREVENTER ENCLOSURE	BACKFLOW PREVENTER BLANKET	FLOW SENSOR	PVC PIPE CONDUIT (SLEEVE) (CLASS 315)	VALVE: 1" GATE VALVE	VALVE: PRESSURE REGULATING VALVE	VALVE: QUICK COUPLING VALVE	VALVE: 1" REMOTE CONTROL VALVE (MASTER VALVE)	VALVE: DRIP VALVE ASSEMBLY	(SUPPLY LINE) 2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)
			1"	1"	1"			1"	6"	1"	1"	1"	1"	1"	2"
	EA	LF	LF	EA	EA	EA	EA	EA	LF	EA	EA	EA	EA	EA	LF
IR-1	2	1553	15	2	2	2	2	2	53	28	2	9	2	10	1174
IR-2	0	4692	0	0	0	0	0	0	40	21	0	6	0	10	1163
TOTAL	2	6245	15	2	2	2	2	2	93	49	2	15	2	20	2337

IRRIGATION QUANTITY (LATERAL SUPPLY SIDE OF CONTROL VALVE)

CONTROLLER LETTER	VALVE NUMBER	PVC PIPE CONDUIT (SLEEVE) (CLASS 315)	1" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	DRIP TRANSITION	1/2" DRIP IRRIGATION TUBING	DRIP FLUSH VALVE
		6"	1"		1/2"	
		LF	LF	EA	LF	EA
A	1	8	110	3	1617	3
	2	8	111	3		3
	3	4	130	2	1014	4
	4	4	219	4		4
SUBTOTAL A		24	570	12	2631	14

IRRIGATION QUANTITY (LATERAL SUPPLY SIDE OF CONTROL VALVE)

CONTROLLER LETTER	VALVE NUMBER	PVC PIPE CONDUIT (SLEEVE) (CLASS 315)	1" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	DRIP TRANSITION	1/2" DRIP IRRIGATION TUBING	DRIP FLUSH VALVE
		6"	1"		1/2"	
		LF	LF	EA	LF	EA
B	1	0	0	1	330	1
	2	0	0	1		1
	3	3.5	102	2	726	1
	4	3.5	99	2		1
	5	0	0	1	77	1
	6	0	0	1		1
SUBTOTAL B		7	201	8	1133	6

IRRIGATION QUANTITY (LATERAL SUPPLY SIDE OF CONTROL VALVE)

CONTROLLER LETTER	VALVE NUMBER	PVC PIPE CONDUIT (SLEEVE) (CLASS 315)	1" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	DRIP TRANSITION	1/2" DRIP IRRIGATION TUBING	DRIP FLUSH VALVE
		6"	1"		1/2"	
		LF	LF	EA	LF	EA
C (EXISTING)	1	0	0	1	782	1
	2	0	0	1	0	1
	3	0	0	1	805	1
	4	0	72	1	0	2
	5	14	96	3	1080	2
	6	14	96	3	0	2
	7	0	0	1	925	2
	8	0	0	2	0	2
	9	0	0	1	1650	2
	10	0	0	1	0	2
SUBTOTAL C		28	264	15	5242	17
SUBTOTAL B		7	201	8	1133	6
SUBTOTAL A		24	570	12	2631	14
TOTAL		59	1035	35	9006	37

IRRIGATION QUANTITIES
IQ-1

REVISED BY	MB
DATE REVISED	02/21/25
CALCULATED-DESIGNED BY	MAURA BALDWIN
CHECKED BY	MAURA BALDWIN
CONSULTANT FUNCTIONAL SUPERVISOR	JAGGI S. BHANDAL

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NOTE:

UNDERLINED PORTIONS OF BOTANICAL NAME INDICATE ABBREVIATION USED ON PLANTING PLAN.

PLANTING REQUIREMENTS

③ SOIL AMENDMENT TO BE OMRI CERTIFIED COMPOST. COMPOST TO BE SPREAD OVER SURFACE. DO NOT TILL.

④ WOOD MULCH TO BE CHIPS FROM EXISTING TREES TO BE REMOVED

NOTES: APPLICABLE WHERE CIRCLED

① 2X ROOT BALL WIDTH
② SUFFICIENT TO RECEIVE ROOT BALL
③ SOIL AMENDMENT MUST BE ORGANIC COMPOST
④ MULCH MUST BE ARBOR MULCH
⑤ REQUIRED
⑥ AS SHOWN ON PROJECT PLANS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	75	247

MAURA BALDWIN #5802 02/21/25
LICENSED LANDSCAPE ARCHITECT DATE

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT MAURA BALDWIN No. 5802 9/30/26 02/21/25 STATE OF CALIFORNIA

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PANORAMIC DESIGN GROUP
3060 EL CERRITO PLAZA #528
EL CERRITO, CA 94530

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

PLANT LEGEND

PLANT GROUP (SIZE)	PLANT No.	SYMBOL	BOTANICAL NAME	COMMON NAME	HOLE SIZE DIAMETER INCH	HOLE SIZE DEPTH INCH	BASIN TYPE	PLANT AREA (GROUP F/H/M/SOD) SQFT	APPLICATION RATES SOIL AMENDMENT CF	APPLICATION RATES ORGANIC FERTILIZER PLT oz	APPLICATION RATES ORGANIC FERTILIZER PLT ESTB oz	STAKING ft	ON CENTER SPACING ft	MINIMUM PLANTING DISTANCE FROM: ETW ft	EP ft	FENCE ft	WALL ft	PAVED DITCH ft	EARTH DITCH ft	REMARKS
A (No.1)	1	(II)	ACHILLEA MILLEFOLIUM	SONOMA COAST YARROW	①	②	II						3							SHRUB
	2		AEONIUM 'JACK CATLIN'	NCN	①	②	II						3							SHRUB
	3		DESCHAMPSIA CESPITOSA	TUFTED HAIRGRASS	①	②	II						3							GRASS
	4		FESTUCA CALIFORNICA	CALIFORNIA FESCUE	①	②	II						2							GRASS
	5		FESTUCA RUBRA 'MOLATE'	MOLATE FESCUE	①	②	II						1							GRASS
	6		ECHEVERIA 'BLUE CURLS'	NCN	①	②	II						2							SHRUB
	7		JUNCUS PATENS	GRAY RUSH	①	②	II						3							GRASS
	8		KALANCHOE LUCIAE	PADDLE PLANT	①	②	II						2							SHRUB
	9		MIMULUS AURANTIACUS	STICKY MONKEY FLOWER	①	②	II						3							SHRUB
	10		MONARDELLA VILLOSA 'RUSSIAN RIVER'	COYOTE MINT	①	②	II						3							SHRUB
	11		SALVIA SPATHACEA	HUMMINGBIRD SAGE	①	②	II						3							SHRUB
	12		STIPA PULCHRA	PURPLE NEEDLE GRASS	①	②	II						2							SHRUB
	13		VITIS CALIFORNICA 'ROGERS RED'	ROGER'S RED CALIFORNIA GRAPE	①	②	II						12							VINE
B (No.5)	14		AEONIUM UNDULATUM	STALKED AEONIUM	①	②	II						5							SHRUB
	15		AGAVE ATTENUATA	FOXTAIL AGAVE	①	②	II						3							SHRUB
	16		ANIGOZANTHOS ORANGE CROSS	KANGAROO PAW	①	②	II						3							SHRUB
	17		ARCTOSTAPHYLOS HOOKERI 'MONTEREY CARPET'	HOOKER'S MANZANITA	①	②	II						8							SHRUB
	18		ASCLEPIAS CURASSAVICA	ORANGE FLOWERED MILKWEED	①	②	II						3							SHRUB
	19		CHONDROPETALUM ELEPHANTINUM	CAPE REED	①	②	II						4							GRASS
	20		MUHLENBERGIA DUBIA	PINE MUHLY	①	②	II						3							GRASS
	21		MUHLENBERGIA RIGENS	DEER GRASS	①	②	II						4							GRASS
	22		NANDINA DOMESTICA 'EMERALD SEA'	EMERALD SEA HEAVENLY BAMBOO	①	②	II						3							SHRUB
	23		OPUNTIA LITTORALIS	COASTAL PRICKLY PEAR	①	②	II						6							SHRUB
	24		SALVIA CLEVELANDII 'WINIFRED GILMAN'	CLEVELAND SAGE	①	②	II						4							SHRUB
K (24" BOX)	25		CERCIS OCCIDENTALIS	WESTERN REDBUD	①	②	II					⑤	⑥							TREE, NATURAL FORM, MULTI-TRUNK
	26		LAGERSTROEMIA 'NATCHEZ'	RED CRAPE MYRTLE	①	②	II					⑤	⑥							TREE, STANDARD, SINGLE TRUNK
	27		LAURUS NOBILIS 'SARATOGA'	SARATOGA BAY	①	②	II					⑤	⑥							TREE
	28		OLEA HIDSHURTLEFF MULTI	HIDSHURTLEFF OLIVE	①	②	II					⑤	⑥							TREE, WEEPING FRUITLESS
	29		QUERCUS LOBATA	VALLEY OAK	①	②	II					⑤	⑥							TREE, NATURAL FORM
	30		ULMUS PARVIFOLIA	CHINESE ELM	①	②	II					⑤	⑥							TREE

REVISED BY	DATE REVISED
MB	02/21/25

CALCULATED–DESIGNED BY: MAURA BALDWIN
CHECKED BY: MAURA BALDWIN
CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL
STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION

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DATE PLOTTED =>
TIME PLOTTED =>

PLANT LEGEND
PL-1

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MAURA BALDWIN #5802 02/21/25
LICENSED LANDSCAPE ARCHITECT DATE

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT MAURA BALDWIN No. 5802 9/30/26 02/21/25 STATE OF CALIFORNIA

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EL CERRITO, CA 94530

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

SITE LEGEND

—H1— HYDROZONE

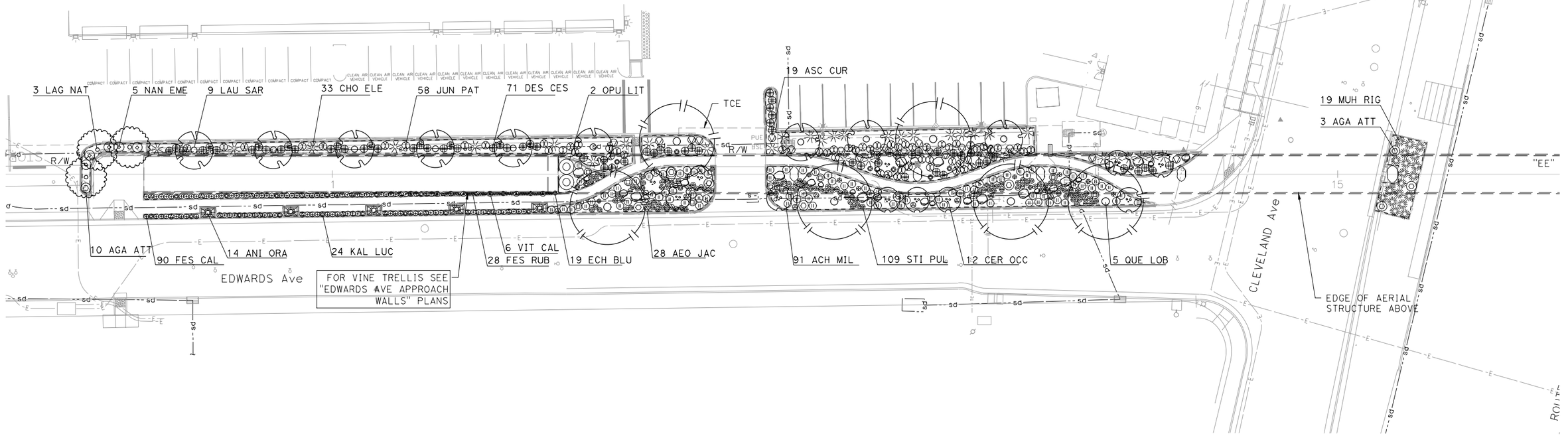
TREE GRATE

BOULDERS

STEPPING STONES

WOOD MULCH (TREE TRIMMINGS) TO BE ARBOR MULCH CHIPS FROM REMOVED TREES

LIMIT OF WOOD MULCH AREA



PLANTING PLAN

SCALE: 1" = 20'

PP-1

MB	02/21/25	REVISED BY
		DATE REVISED
MAURA BALDWIN		CALCULATED–DESIGNED BY
MAURA BALDWIN		CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL

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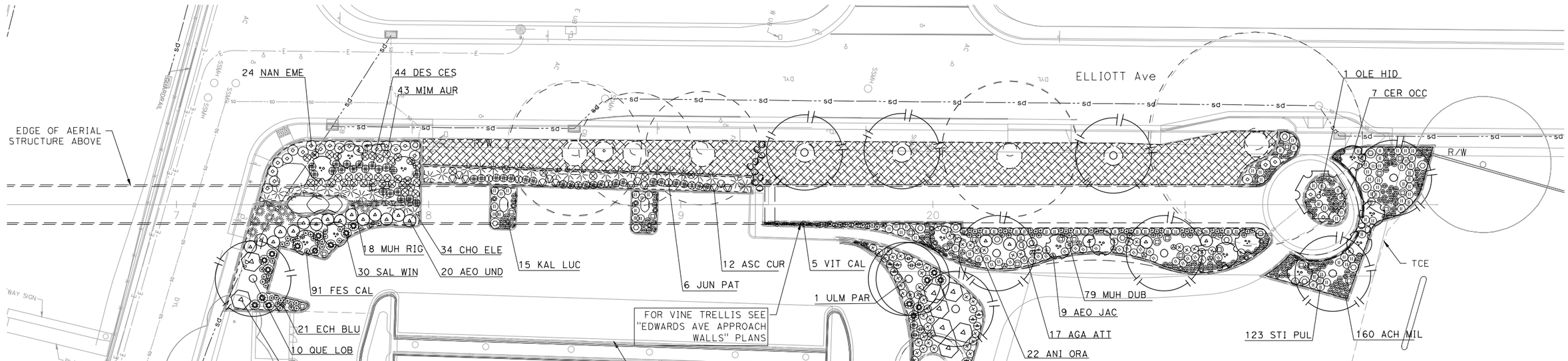
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PLANTING PLAN

SCALE: 1" = 20'

PP-2

02/21/25	MB	REVISED BY	MAURA BALDWIN
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PLANT QUANTITIES

	BOTANICAL NAME	COMMON NAME	PLANT GROUP A	PLANT GROUP B	PLANT GROUP K	PLANT GROUP SOD	PLANT BASIN WOOD MULCH	PLANT BASIN SOIL AMENDMENT	PLANT BASIN ORGANIC FERTILIZER	PLANT BASIN ROOT PROTECTOR	PLANT BASIN FOLIAGE PROTECTOR
			EA	EA	EA	SQYD	CY	CY	LB	EA	EA
	ACHILLEA MILLEFOLIUM	SONOMA COAST YARROW	214								
	AEONIUM 'JACK CATLIN'	NCN	39								
	DESCHAMPSIA CESPITOSA	TUFTED HAIRGRASS	111								
	ECHEVERIA 'BLUE CURLS'	NCN	41								
	FESTUCA CALIFORNICA	CALIFORNIA FESCUE	181								
	FESTUCA RUBRA 'MOLATE'	MOLATE FESCUE	66								
	ECHEVERIA 'BLUE CURLS'	NCN	41								
	JUNCUS PATENS	GRAY RUSH	64								
	KALANCHOE LUCIAE	PADDLE PLANT	41								
	MIMULUS AURANTIACUS	STICKY MONKEY FLOWER	40								
	MONARDELLA VILLOSA 'RUSSIAN RIVER'	COYOTE MINT	41								
	SALVIA SPATHACEA	HUMMINGBIRD SAGE	15								
	STIPA PULCHRA	PURPLE NEEDLE GRASS	272								
	VITIS CALIFORNICA 'ROGERS RED'	ROGER'S RED CALIFORNIA GRAPE	11								
	AEONIUM UNDULATUM	STALKED AEONIUM		20							
	AGAVE ATTENUATA	FOXTAIL AGAVE		27							
	ANIGOZANTHOS 'ORANGE CROSS'	KANGAROO PAW		36							
	ARCTOSTAPHYLOS HOOKERI 'MONTEREY CARPET'	HOOKER'S MANZANITA		12							
	ASCLEPIAS CURASSAVICA	ORANGE FLOWERED MILKWEED		31							
	CHONDROPETALUM ELEPHANTINUM	CAPE REED		67							
	MUHLENBERGIA DUBIA	PINE MUHLY		79							
	MUHLENBERGIA RIGENS	DEER GRASS		37							
	NANDINA DOMESTICA 'EMERALD SEA'	EMERALD SEA HEAVENLY BAMBOO		29							
	OPUNTIA LITTORALIS	COASTAL PRICKLY PEAR		2							
	SALVIA CLEVELANDII 'WINIFRED GILMAN'	CLEVELAND SAGE		30							
	CERCIS OCCIDENTALIS	WESTERN REDBUD			26						
	LAGERSTROEMIA 'NATCHEZ'	WHITE CRAPE MYRTLE			3						
	LAURUS NOBILIS 'SARATOGA'	SARATOGA BAY			9						
	OLEA HIDSHURTLEFF MULTI	HIDSHURTLEFF OLIVE			1						
	QUERCUS LOBATA	VALLEY OAK			15						
	ULMUS PARVIFOLIA	CHINESE ELM			1						
		SUBTOTAL	1177	370	55						

TREE PROTECTION (TEMPORARY HIGH VISIBILITY CHAIN LINK FENCE) QUANTITIES

SHEET No.	TREES #32-#35	TREE #29	TREE #92	TREES #181-#183	
	LF	LF	LF	LF	
PR-2	286	169	248	236	
TOTAL					939

LANDSCAPE QUANTITIES

SHEET No.	BOULDER (2')	BOULDER (3')	BOULDER (4')	TREE GRATE	STEPPING STONE
	EA	EA	EA	EA	EA
PL-1	10	10	10	5	
PL-2					11
TOTAL	10	10	10	5	11

PLANTING AREA QUANTITIES

SHEET No.	COMPOST	WOOD MULCH (TREE TRIMMINGS)	WEED GERMINATION	CULTIVATION	CULTIVATION AREA SOIL AMENDMENT	CULTIVATION AREA IRON SULFATE	CULTIVATION AREA SLOW-RELEASE FERTILIZER	CULTIVATION AREA ORGANIC FERTILIZER
	CY	CY	SQYD	SQYD	CY	LB	LB	LB
PL-1	72	95						
PL-2	89	119						
PLANT BASIN SUBTOTAL								
TOTAL	161	214						

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	78	247

MAURA BALDWIN #5802 02/21/25
LICENSED LANDSCAPE ARCHITECT 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.

LICENSED LANDSCAPE ARCHITECT MAURA BALDWIN No. 5802 9/30/26 02/21/25 STATE OF CALIFORNIA

PANORAMIC DESIGN GROUP
3060 EL CERRITO PLAZA #528
EL CERRITO, CA 94530

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

REVISED BY: MB — DATE REVISED: 02/21/25
CALCULATED-DESIGNED BY: MAURA BALDWIN
CHECKED BY: MAURA BALDWIN
CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION 02-21-25
DATE PLOTTED =>
TIME PLOTTED =>

PLANTING QUANTITIES
PQ-1

BORDER LAST REVISED 7/2/2010 | USERNAME => | DGN FILE => | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	79	247

PROFESSIONAL ENGINEER — DATE: 02/20/2025

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KAREN DALE PURCELL — No. 15858 — Exp. DEC. 31, 2026 ELECTRICAL — STATE OF CALIFORNIA

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PK ELECTRICAL, INC.
681 SIERRA ROSE DR, SUITE B
RENO, NV 89511

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

ELECTRICAL SYMBOLS

(1a) ■	ELECTRICAL PULL BOX, SEE PULLBOX SCHEDULE FOR SIZES AND MORE INFORMATION.
(1b) ⊠	IN-GRADE LOW VOLTAGE POWER SUPPLY, SEE FIXTURE SCHEDULE AND PULLBOX SCHEDULE FOR SIZES AND MORE INFORMATION.
□	SONOMA BROADBAND FIBER PULL BOX, SEE PULLBOX SCHEDULE FOR MORE INFORMATION.
	METERED SERVICE PEDESTAL.
------	UNDERGROUND CONDUIT, SEE CONDUIT AND CONDUCTOR SCHEDULE FOR MORE INFORMATION.
—C—	FIBER OPTIC CONDUIT, SEE CONDUIT AND CONDUCTOR SCHEDULE FOR MORE INFORMATION.
———	OVERHEAD/SURFACE CONDUIT, SEE CONDUIT AND CONDUCTOR SCHEDULE FOR MORE INFORMATION.
o	VERTICAL CONDUIT RISER, SEE CONDUIT AND CONDUCTOR SCHEDULE FOR MORE INFORMATION.
A01	FIXTURE TAG. SEE LUMINAIRE LOCATION SCHEDULE FOR MORE INFORMATION.
101	FEEDER TAG. SEE CONDUIT AND CONDUCTOR SCHEDULE FOR MORE INFORMATION.
(1)	SHEET NOTE TAG.

NOTE: THIS IS A MASTER SYMBOL LIST. IT MAY BE THAT NOT ALL SYMBOLS SHOWN ARE USED WITHIN THIS SET OF PLANS. SEE FIXTURE SCHEDULE ON ED-1 FOR ELECTRICAL AND LIGHT FIXTURE SYMBOLS.

ELECTRICAL ABBREVIATIONS

A	AMPS	MCB	MAIN CIRCUIT BREAKER
ADA	AMERICANS WITH DISABILITIES ACT	MCM	THOUSAND CIRCULAR MILS
AFG	ABOVE FINISHED GRADE	MFG	MANUFACTURER
AHJ	AUTHORITY HAVING JURISDICTION	MLO	MAIN LUGS ONLY
AIC	AMP INTERRUPTING CAPACITY	NC	NORMALLY CLOSED
AL	ALUMINUM	NEC	NATIONAL ELECTRICAL CODE
AWG	AMERICAN WIRE GAUGE	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
BC	BARE COPPER	NIC	NOT IN CONTRACT
BKR	BREAKER	NO	NORMALLY OPEN
C	CONDUIT/RACEWAY	NTS	NOT TO SCALE
CEC	CALIFORNIA ELECTRIC CODE	P	POLE
CKT	CIRCUIT	PG&E	PACIFIC GAS AND ELECTRIC
CO	CONDUIT/RACEWAY ONLY	PH/Ø	PHASE
CT	CURRENT TRANSFORMER	PNL	PANEL
CU	COPPER	PWR	POWER
DWG	DRAWING	(R)	RELOCATED
(E)	EXISTING TO REMAIN	RAC	RIGID ALUMINUM CONDUIT
ELEC	ELECTRICAL	RFC	RIGID FIBERGLASS CONDUIT
EM	EMERGENCY	RSC	RIGID STEEL CONDUIT
EMT	ELECTRICAL METALLIC TUBING	SE	SERVICE ENTRANCE
(F)	FUTURE	SPD	SURGE PROTECTION DEVICE
FLA	FULL LOAD AMPS	STC	STANDARD TEST CONDITIONS
FMC	FLEXIBLE METAL CONDUIT (STEEL)	SW	SWITCH
GFI	GROUND FAULT INTERRUPT	TYP	TYPICAL
GFR	GROUND FAULT RELAY	UNO	UNLESS NOTED OTHERWISE
GND	GROUND	UNSW	UNSWITCHED
HOA	HAND-OFF-AUTO SWITCH	V	VOLTS
HP	HORSEPOWER	VA	VOLT AMPS
HSKP	HOUSEKEEPING	W	WATTS
IMC	INTERMEDIATE METAL CONDUIT	WP	WEATHER PROOF
J-BOX	JUNCTION BOX	(X)	EXISTING TO BE REMOVED
K	kcmil (300K = 300 kcmil)	XFMR OR XF	TRANSFORMER
KVA	KILOVOLT AMPS		
KW	KILOWATT		
LTG	LIGHTING		

NOTES

1. WORK SHALL BE IN ACCORDANCE WITH CURRENTLY ADOPTED 2022 CEC, CALTRANS STANDARDS, AND LOCAL CODES.
2. DATA PRESENTED ON THESE DRAWINGS ARE AS ACCURATE AS PLANNING CAN DETERMINE, BUT FIELD VERIFICATION OF ALL DIMENSIONS, LOCATIONS, LEVELS, ETC. TO SUIT FIELD CONDITIONS IS REQUIRED. REVIEW ALL CIVIL DETAILS AND ADJUST WORK TO MEET THE REQUIREMENTS OF CONDITIONS SHOWN. DISCREPANCIES BETWEEN DIFFERENT PLANS OR BETWEEN DRAWINGS AND SPECIFICATIONS, OR REGULATIONS AND CODES GOVERNING THE INSTALLATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING.
3. WORK SHALL BE COMPLETED IN A NEAT AND WORKMANLIKE MANNER AND IN ACCORDANCE WITH NECA STANDARDS.
4. WORK SHALL BE SUBJECT TO INSPECTION AND POSSIBLE REJECTION IF NOT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND INSTALLED IN A NEAT AND WORKMANLIKE MANNER.
5. REJECTED WORK SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
6. PROVIDE REPRODUCIBLE RECORD DRAWINGS OF ALL COMPLETED WORK.
7. IT IS THE CONTRACTORS RESPONSIBILITY TO TO LOCATE ALL UTILITY AND NON-UTILITY UNDERGROUND ITEMS PRIOR TO DIGGING.
8. DAMAGE TO UTILITIES SHALL BE REPAIRED IMMEDIATELY IN COMPLIANCE WITH THE DAMAGED UTILITY OWNER AND INSPECTED PRIOR TO BACKFILL. THE CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITIES PRIOR TO INSTALLATION OF NEW DUCTBANK.
9. THE CONTRACTOR SHALL REMOVE FROM THE JOB SITE DISCARD AND ABANDONED MATERIALS FROM DEMOLITION AND INSTALLATION. THIS INCLUDES, BUT NOT LIMITED TO, CONDUIT, FASTENERS, BOXES, & ETC. MATERIALS EMBEDDED IN GRADE AND/OR CONCRETE MAY BE ABANDONED IN PLACE. ABANDONED CONDUIT SHALL BE CAPPED.
10. DO NOT SPLICE FEEDER CONDUCTORS UNLESS PRIOR APPROVAL HAS BEEN OBTAINED IN WRITING FROM THE ENGINEER.
11. THE MAXIMUM NUMBER OF CONDUIT BENDS SHALL NOT BE GREATER THAN 360 DEGREES BETWEEN PULLING STRUCTURES. THIS INCLUDES THE AGGREGATE OF HORIZONTAL AND VERTICAL CHANGES.
12. ALL CONDUIT, INNERDUCT, PULLBOXES, AND VAULTS SHALL BE LABELED PER THE SPECIFICATIONS.
13. ELECTRICAL CONDUITS SHOWN SEPARATELY ON PLAN SHEETS FOR CLARITY. ELECTRICAL CONDUITS CAN BE COMMON TRENCHED. PROVIDE MINIMUM 3" SEPARATION, HORIZONTALLY AND VERTICALLY, BETWEEN CONDUITS.
14. PROTECT-IN-PLACE ALL EXISTING CALTRANS ELECTRICAL INFRASTRUCTURE WITHIN THE PROJECT BOUNDARIES.

ELECTRICAL SYMBOLS AND NOTES

NO SCALE

E-1

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY

CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 06-28-24

DATE PLOTTED => Feb 20 2025
TIME PLOTTED => 8:18 am

BORDER LAST REVISED 7/2/2010

USERNAME => bdagerman
DGN FILE => 21151-E-1.dwg

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0751

PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	80	247

PROFESSIONAL ENGINEER — 02/20/2025 DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KAREN DALE PURCELL — No. 15858 — Exp. DEC. 31, 2026 ELECTRICAL — STATE OF CALIFORNIA

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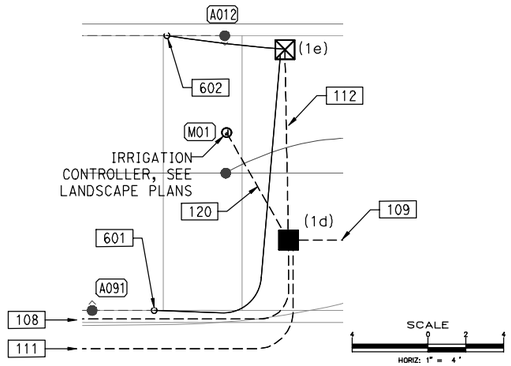
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

NOTES:
SEE CONDUIT SCHEDULES ON SHEETS E-11 AND E-12 FOR CONDUIT AND CONDUCTOR SIZES.

SEE LUMINAIRE LOCATION SCHEDULES ON SHEETS E-9 AND E-10 FOR LUMINAIRE CIRCUITS AND LOCATIONS.

SEE LUMINAIRE SCHEDULE ON SHEET E-8 FOR LIGHT FIXTURE TYPES.

SEE PULLBOX SCHEDULE ON SHEET E-13 FOR PULLBOX TYPES AND LOCATIONS.

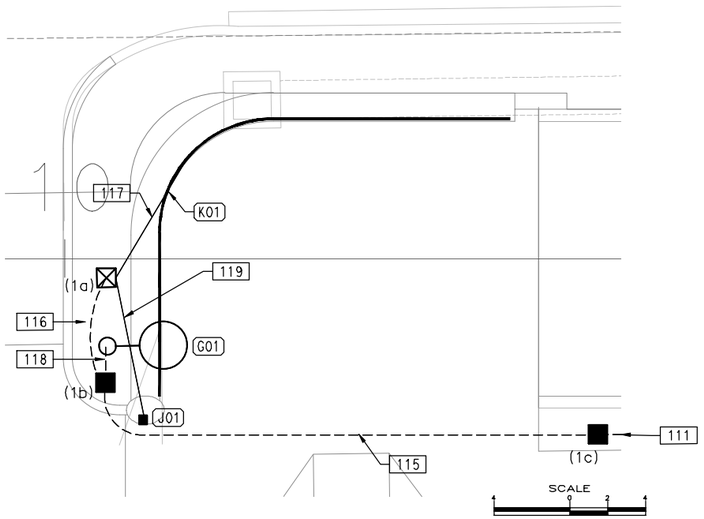


CONDUIT PLAN AT ABUTMENT 1

SCALE: 1/4" = 1'-0"

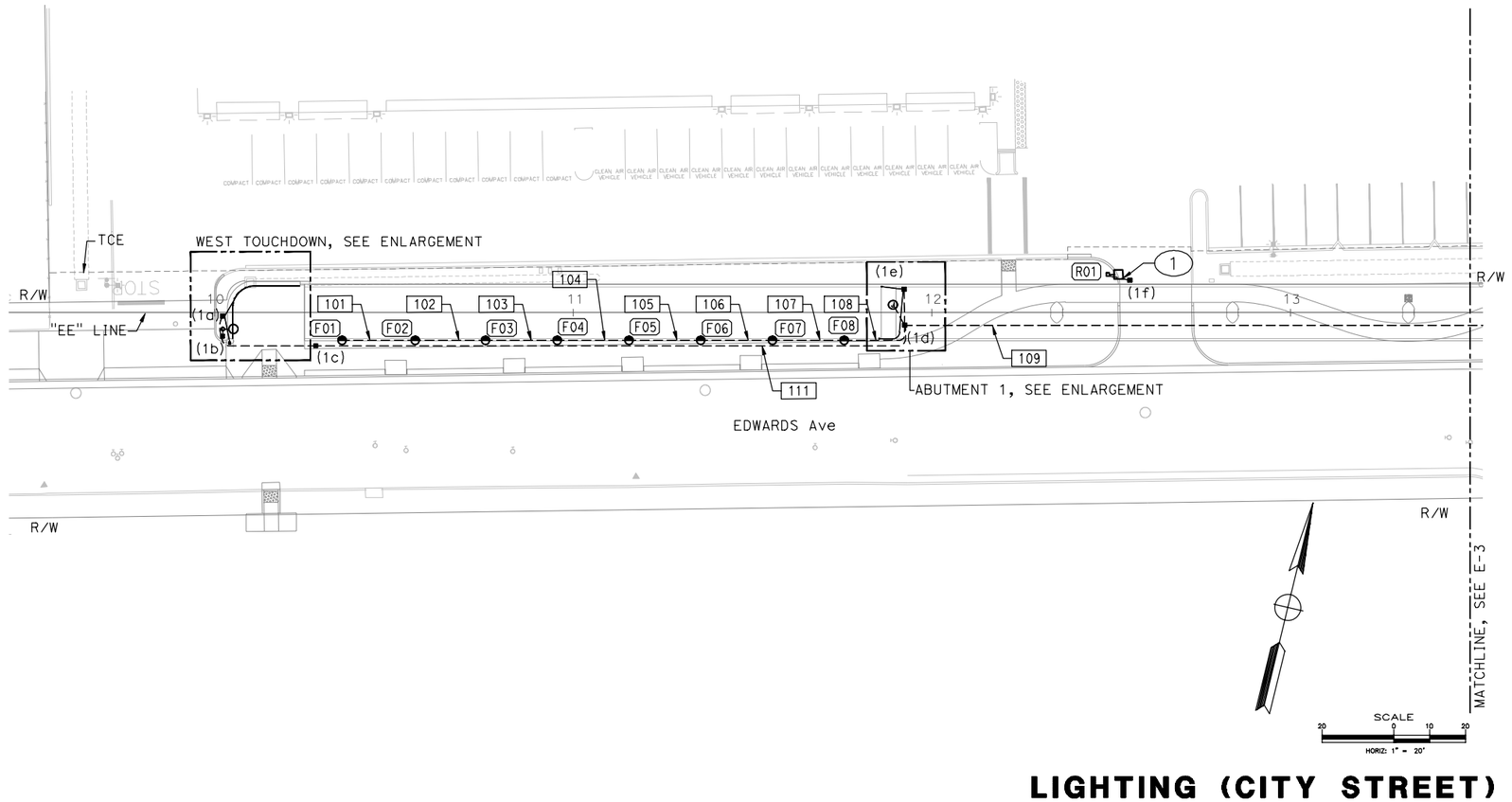
SHEET NOTES:

(1) RELOCATE (E) PARKING LOT LUMINAIRE. CHIP OUT (E) RAISED FOUNDATION AND INTERCEPT (E) CONDUIT WITH NEW PULLBOX. EXTEND (E) LIGHTING CIRCUIT TO NEW LIGHT LOCATION IN 1"C. INSTALL ON NEW RAISED FOUNDATION., SEE SHEET ED-4.



ENLARGED ELECTRICAL PLAN AT WEST TOUCHDOWN

SCALE: 1/4" = 1'-0"



LIGHTING (CITY STREET) GROUND LEVEL PLAN

SCALE: 1" = 20'

E-2

REVISED BY | DATE REVISED

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CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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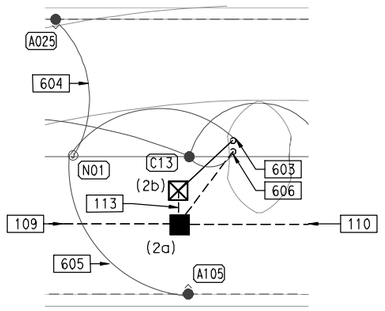
BORDER LAST REVISED 7/2/2010 | USERNAME => bdagerman | DGN FILE => 21151-E-2 TO E-4.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

NOTES:
SEE CONDUIT SCHEDULES ON SHEETS E-11 AND E-12 FOR CONDUIT AND CONDUCTOR SIZES.

SEE LUMINAIRE LOCATION SCHEDULES ON SHEETS E-9 AND E-10 FOR LUMINAIRE CIRCUITS AND LOCATIONS.

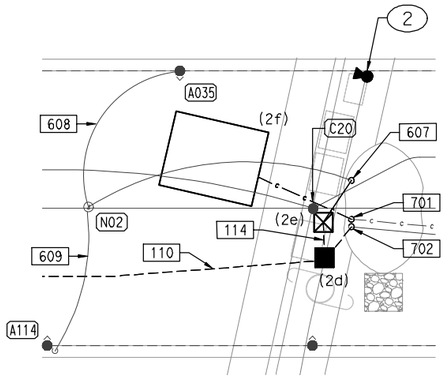
SEE LUMINAIRE SCHEDULE ON SHEET E-8 FOR LIGHT FIXTURE TYPES.

SEE PULLBOX SCHEDULE ON SHEET E-13 FOR PULLBOX TYPES AND LOCATIONS.



CONDUIT PLAN AT BENT 5

SCALE: 1/4" = 1'-0"



CONDUIT PLAN AT BENT 7

SCALE: 1/4" = 1'-0"

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	81	247

PROFESSIONAL ENGINEER — DATE: 02/20/2025

KAREN DALE PURCELL No. 15858 Exp. DEC. 31, 2026 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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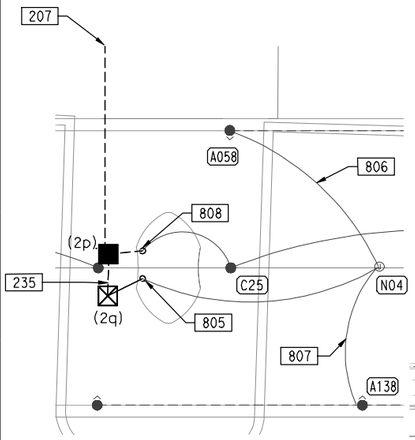
PK ELECTRICAL, INC.
681 SIERRA ROSE DR, SUITE B
RENO, NV 89511

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

SHEET NOTES:

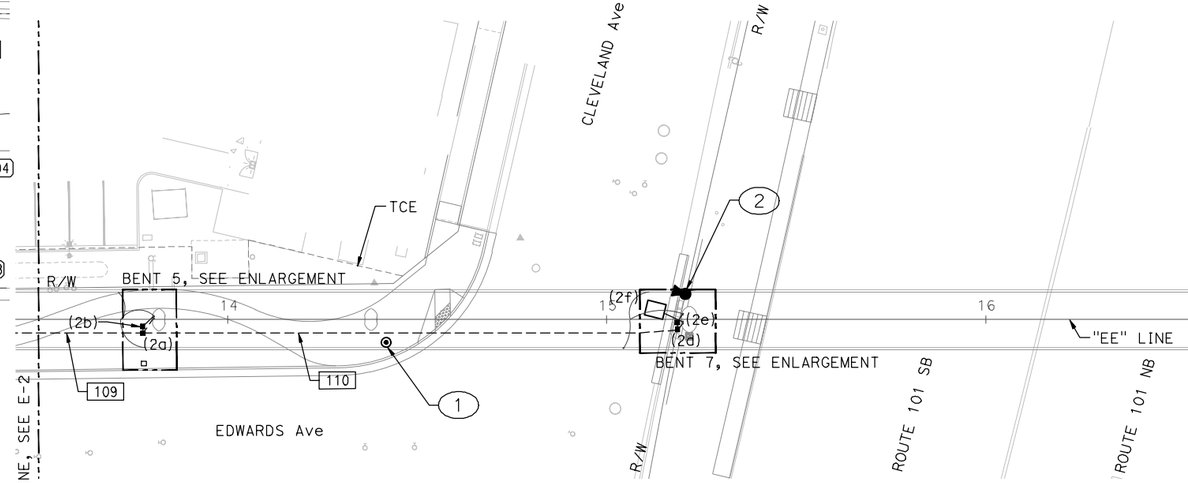
(1) REMOVE EXISTING DECORATIVE STREET LIGHT AND RETURN TO CITY OF SANTA ROSA. REMOVE EXISITNG CONDUTORS BACK TO SOURCE AND ABANDON CONDUIT IN PLACE.

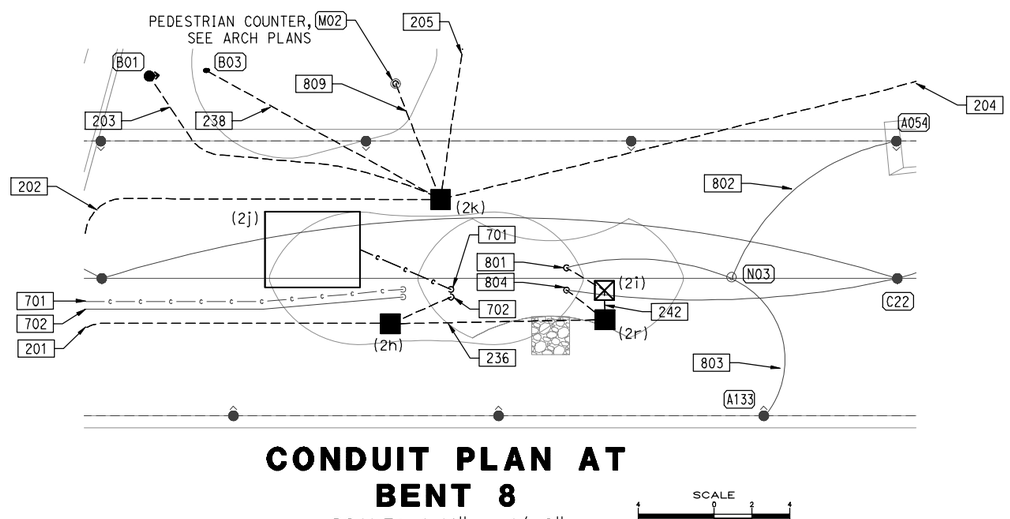
(2) PROTECT IN PLACE EXISTING ELECTRIC SERVICE PEDESTAL.



CONDUIT PLAN AT BENT 9

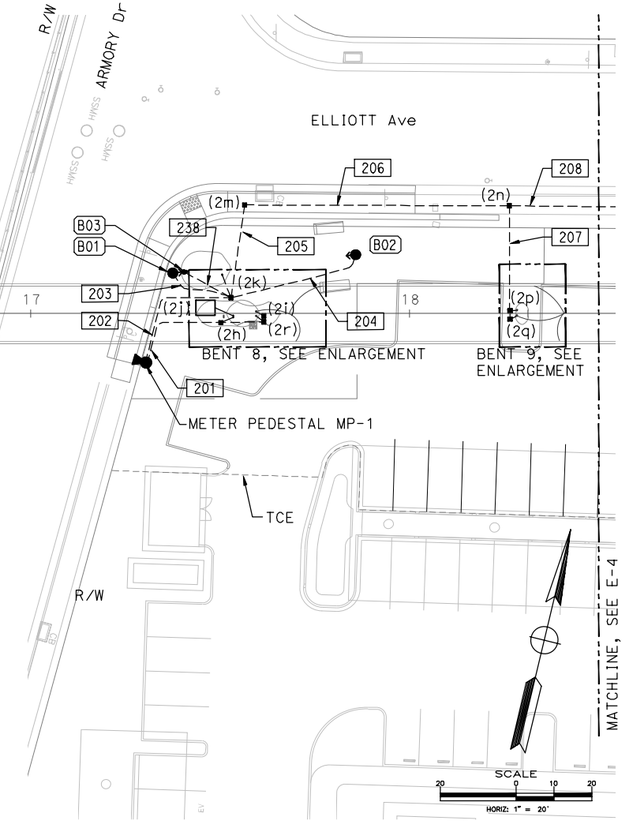
SCALE: 1/4" = 1'-0"





CONDUIT PLAN AT BENT 8

SCALE: 1/4" = 1'-0"



LIGHTING (CITY STREET) GROUND LEVEL PLAN

SCALE: 1" = 20'

E-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL
CALCULATED-DESIGNED BY | CHECKED BY
DRAWN BY | REVISED BY | DATE REVISED

LAST REVISION 06-28-24 | DATE PLOTTED => Feb 20 2025 | TIME PLOTTED => 8:18 am

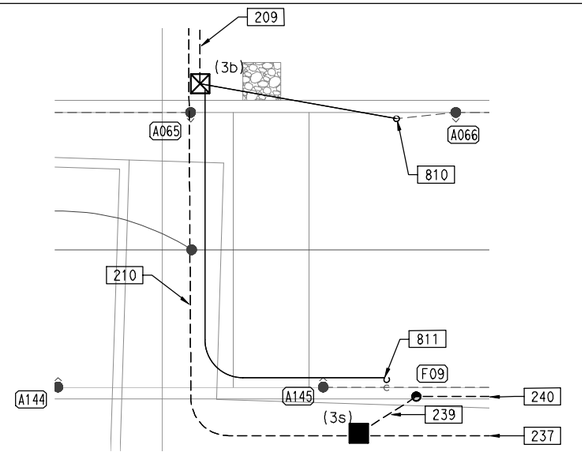
BORDER LAST REVISED 7/2/2010 | USERNAME => bdagerman | DGN FILE => 21151-E-2 TO E-4.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

NOTES:
SEE CONDUIT SCHEDULES ON SHEETS E-11 AND E-12 FOR CONDUIT AND CONDUCTOR SIZES.

SEE LUMINAIRE LOCATION SCHEDULES ON SHEETS E-9 AND E-10 FOR LUMINAIRE CIRCUITS AND LOCATIONS.

SEE LUMINAIRE SCHEDULE ON SHEET E-8 FOR LIGHT FIXTURE TYPES.

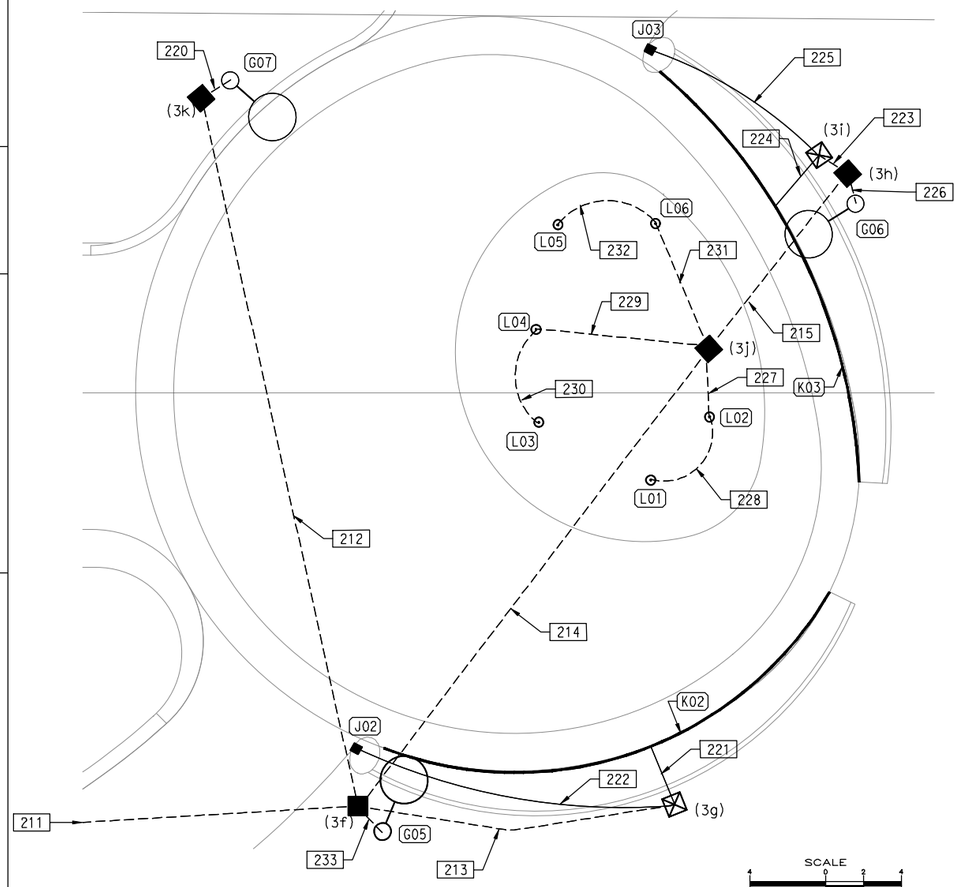
SEE PULLBOX SCHEDULE ON SHEET E-13 FOR PULLBOX TYPES AND LOCATIONS.



CONDUIT PLAN AT ABUTMENT 11

SCALE: 1/4" = 1'-0"

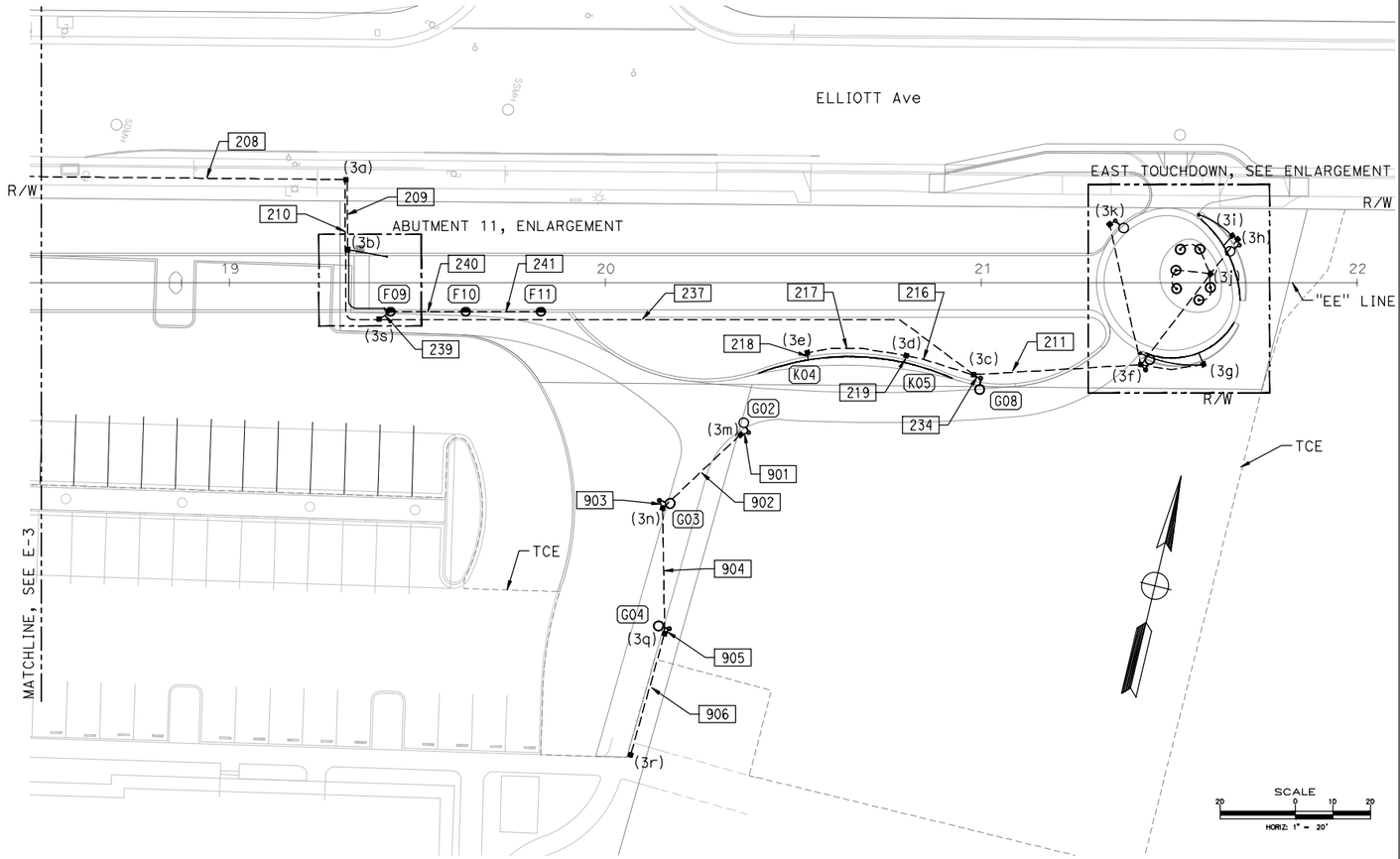
SCALE 0 2 4 HORIZ: 1" = 4'



SCALE 4 0 2 4 HORIZ: 1" = 4'

ENLARGED ELECTRICAL PLAN AT EAST TOUCHDOWN

SCALE: 1/4" = 1'-0"



SCALE 20 0 10 20 HORIZ: 1" = 20'

LIGHTING (CITY STREET) GROUND LEVEL PLAN

SCALE: 1" = 20'

E-4

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	82	247

PROFESSIONAL ENGINEER — DATE: 02/20/2025

REGISTERED PROFESSIONAL ENGINEER — KAREN DALE PURCELL — No. 15858 — Exp. DEC. 31, 2026 ELECTRICAL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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RENO, NV 89511

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

REVISED BY | DATE REVISED

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CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 06-28-24 | DATE PLOTTED => Feb 20 2025 | TIME PLOTTED => 8:18 am

NOTES:
SEE "GUARD DETAILS" SHEETS IN THE "EDWARDS AVE POC" PLANS FOR RAIL LIGHT MOUNTING DETAILS.

SEE "APPROACH STRUCTURE TYPICAL SECTION" AND "PRINCIPAL SPAN TYPICAL SECTION" SHEETS IN THE "EDWARDS AVE POC" PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF BRIDGE MOUNTED LIGHT FIXTURES.

SEE CONDUIT SCHEDULES ON SHEETS E-11 AND E-12 FOR CONDUIT AND CONDUCTOR SIZES.

SEE LUMINAIRE LOCATION SCHEDULES ON SHEETS E-9 AND E-10 FOR LUMINAIRE CIRCUITS AND LOCATIONS.

SEE LUMINAIRE SCHEDULE ON SHEET E-8 FOR LIGHT FIXTURE TYPES.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	83	247

PROFESSIONAL ENGINEER — DATE: 02/20/2025

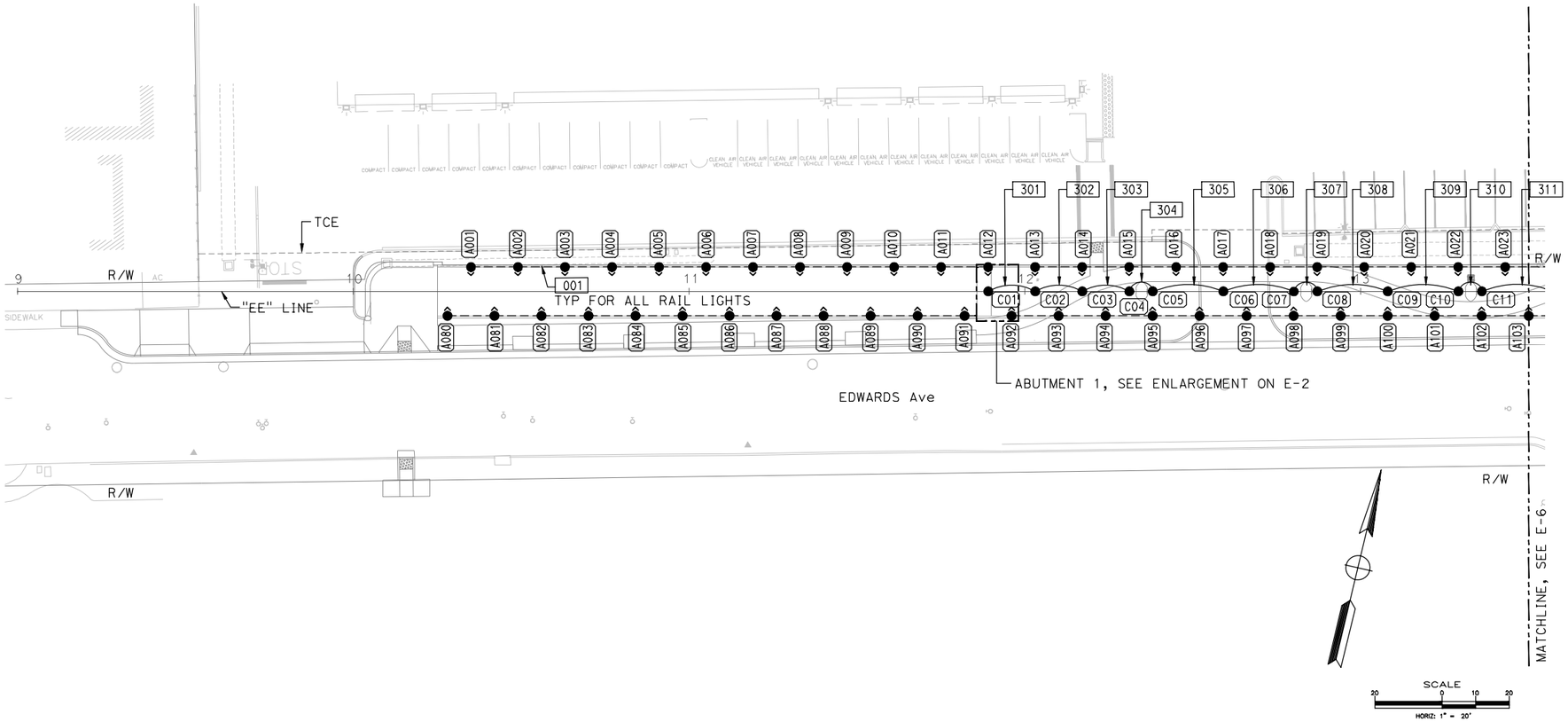
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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404



LIGHTING (CITY STREET)
BRIDGE LEVEL PLAN

SCALE: 1" = 20'

E-5

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY
CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR
JAGGI S. BHANDAL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 06-28-24
DATE PLOTTED => Feb 20 2025
TIME PLOTTED => 8:18 am

BORDER LAST REVISED 7/2/2010
USERNAME => bdagerman
DGN FILE => 21151-E-5 TO E-7.dwg
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0751
PROJECT NUMBER & PHASE 04130002131

NOTES:
SEE "GUARD DETAILS" SHEETS IN THE "EDWARDS AVE POC" PLANS FOR RAIL LIGHT MOUNTING DETAILS.

SEE "APPROACH STRUCTURE TYPICAL SECTION" AND "PRINCIPAL SPAN TYPICAL SECTION" SHEETS IN THE "EDWARDS AVE POC" PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF BRIDGE MOUNTED LIGHT FIXTURES.

SEE CONDUIT SCHEDULES ON SHEETS E-11 AND E-12 FOR CONDUIT AND CONDUCTOR SIZES.

SEE LUMINAIRE LOCATION SCHEDULES ON SHEETS E-9 AND E-10 FOR LUMINAIRE CIRCUITS AND LOCATIONS.

SEE LUMINAIRE SCHEDULE ON SHEET E-8 FOR LIGHT FIXTURE TYPES.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	84	247

PROFESSIONAL ENGINEER — DATE: 02/20/2025

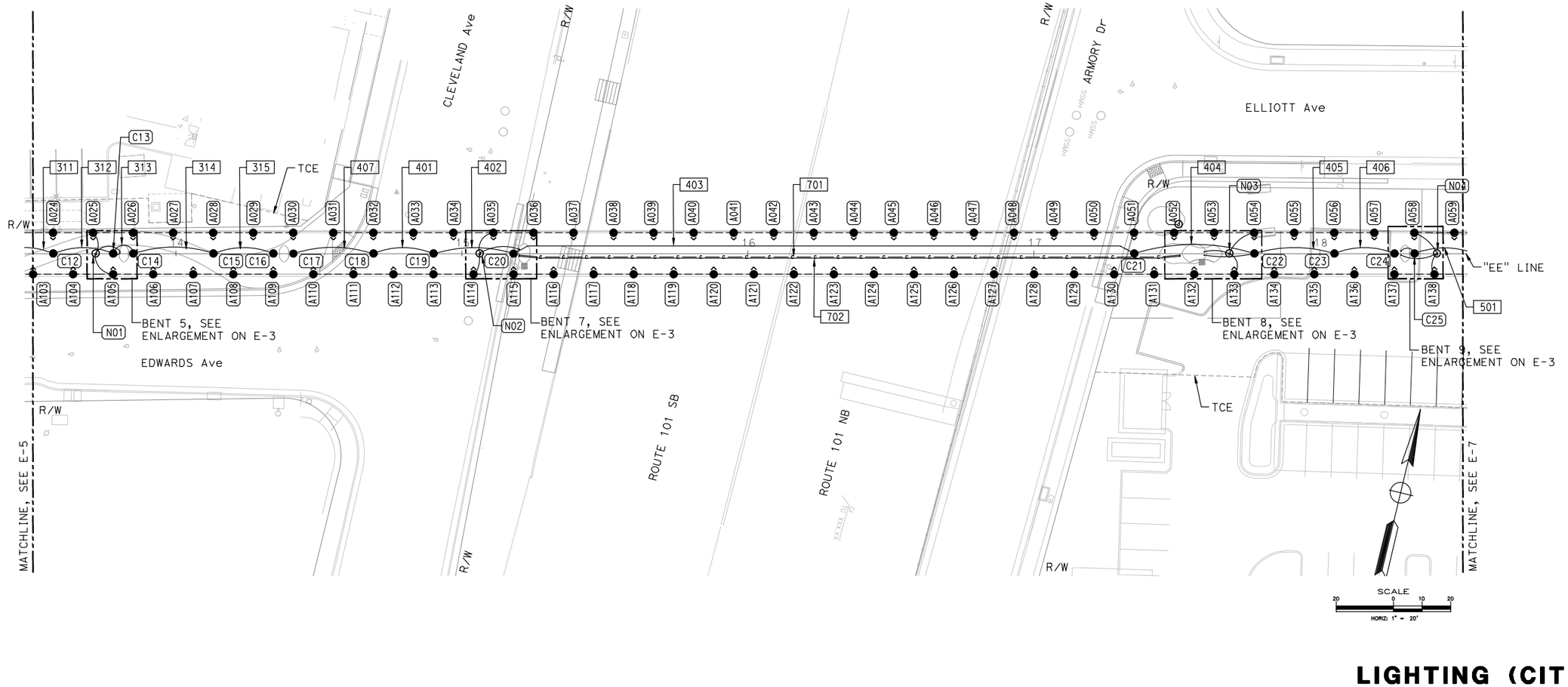
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KAREN DALE PURCELL — No. 15858 — Exp. DEC. 31, 2026 ELECTRICAL — STATE OF CALIFORNIA

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.

PK ELECTRICAL, INC.
681 SIERRA ROSE DR, SUITE B
RENO, NV 89511

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404



LIGHTING (CITY STREET) BRIDGE LEVEL PLAN

SCALE: 1" = 20'

E-6

CALCULATED-DESIGNED BY
CHECKED BY
REVISED BY
DATE REVISED
CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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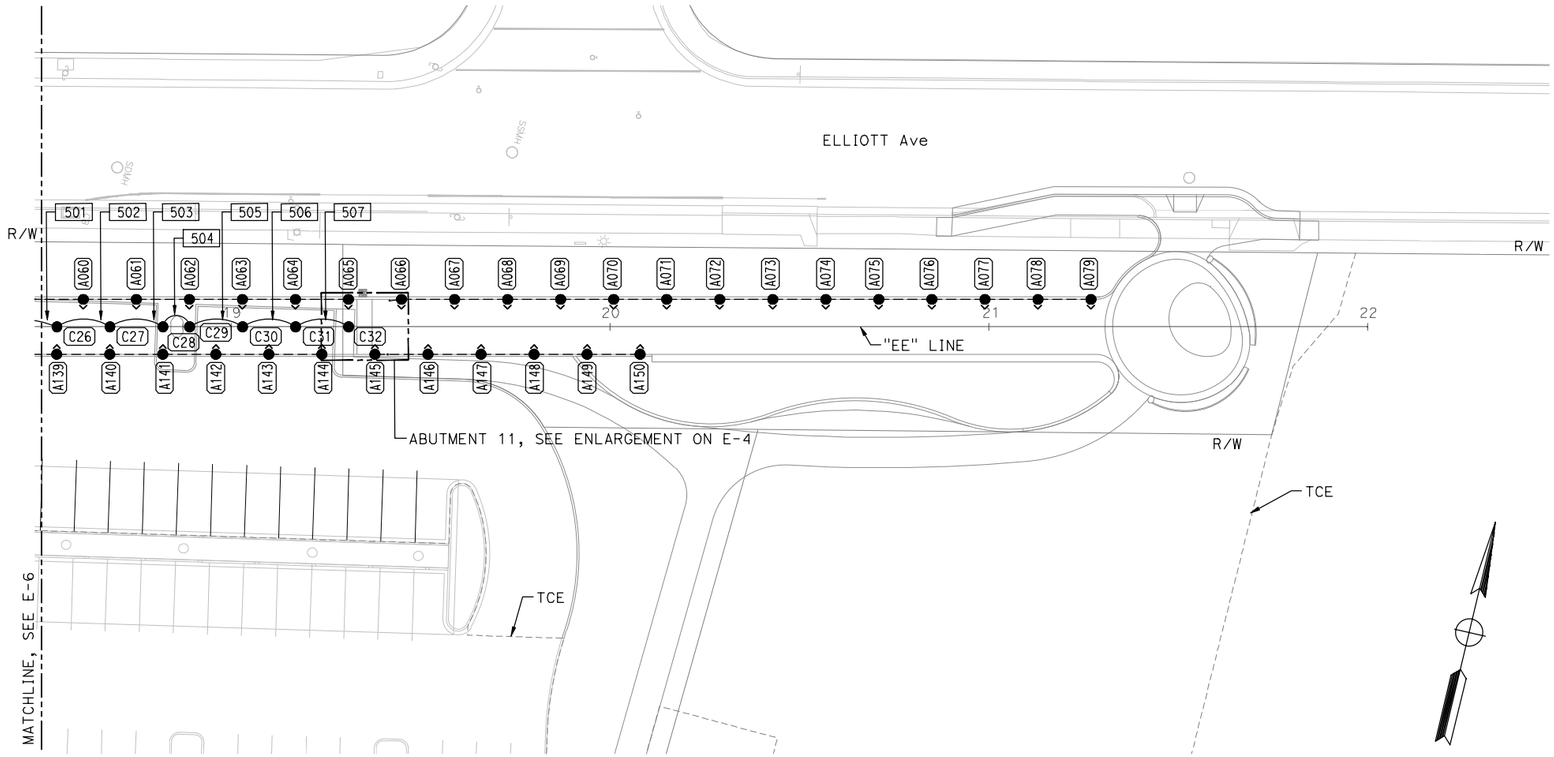
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SEE LUMINAIRE SCHEDULE ON SHEET E-8 FOR LIGHT FIXTURE TYPES.



LIGHTING (CITY STREET)
BRIDGE LEVEL PLAN

SCALE: 1" = 20'

E-7

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	85	247

PROFESSIONAL ENGINEER — DATE 02/20/2025

KAREN DALE PURCELL No. 15858 Exp. DEC. 31, 2026 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	86	247

PROFESSIONAL ENGINEER — 02/20/2025 DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KAREN DALE PURCELL — No. 15858 — Exp. DEC. 31, 2026 ELECTRICAL — STATE OF CALIFORNIA

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69 STONY CIRCLE
SANTA ROSA, CA 95404

ELECTRICAL FIXTURE TYPE SCHEDULE

TYPE	SYMBOL	DESCRIPTION	MANUFACTURER	PART #	VOLTAGE	WATTAGE	COLOR TEMPERATURE	NOTES
A	●	LOW VOLTAGE RAIL LIGHT	KLIK	LPXL 28 F00 30K 1.9 A FLD OR APPROVED EQUAL	24VDC	1.9	3000K	
A1	⊠	REMOTE DRIVER FOR FIXTURE TYPE A	Q-TRAN	QSET-ELED-100W-UNV/24VDC	120	100 (MAX)	N/A	INSTALL WITHIN Q-VAULT ENCLOSURE / NO EQUAL
B1	◇●	NARROW BEAM ANGLE SPOT LIGHT W/ SNOOT	GRIVEN	JA450-WW-UNV-US-XX-3G / JA450-SNT OR APPROVED EQUAL	120	203	3000K	
B2	◇●	NARROW BEAM ANGLE SPOT LIGHT W/ SNOOT	GRIVEN	JUP1-WW-DMX-UNV-SP-3G /AL8282 OR APPROVED EQUAL	120	38	3000K	
C1	●	4" DOWNLIGHT	DMF LIGHTING	DRDH-N-JC / DRD2M-07-9-30-GA / DRD2T R JD S	120	9.5	3000K	NO EQUAL
C2	●	4" DOWNLIGHT WITH HIGHER LUMEN OUTPUT	DMF LIGHTING	DRDH-N-JC / DRD2M-07-9-30-GA / DRD2T R JD S	120	14	3000K	NO EQUAL
F	◓	IN-GRADE WALL-UPLIGHT	HYDREL	M9410C-SS-LED-P1-30K-MVOLT-FL-FLC20-RG OR APPROVED EQUAL	120	10	3000K	
G	○	POLE MOUNTED AREA LIGHT	KIM LIGHTING	UR20-24L-65-3K8-5R-UNV-PT24	120	65	3000K	MATCH SRJC LIGHTING / NO EQUAL - 12' POLE MOUNTED ON FLUSH FOUNDATION, SEE SHEET ED-4
J	■	EMBEDDED WALL MOUNTED LOW VOLTAGE LIGHT	BEGA	33-832 OR APPROVED EQUAL	24VDC	3.4	3000K	
K	▬	SEAT WALL LINEAR STRIP LIGHT	Q-TRAN	WURM-SW-WSCS-WET-30-SO-ENC-TL-S1 OR APPROVED EQUAL	24	1.5W/FT	3000K	
L	⊙	IN-GRADE TREE UPLIGHT	HYDREL	M9420C-A-LED-P1-30K-MVOLT-NFL-FLC5AS-XX-RG-LDM-DNA OR APPROVED EQUAL	120	10	3000K	

ELECTRICAL FIXTURE SCHEDULE

NO SCALE

E-8

REVISED BY | DATE REVISED

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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PROFESSIONAL ENGINEER — 02/20/2025 DATE

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RENO, NV 89511

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

LUMINAIRE SCHEDULE

LOCATION NO.	STATION	OFFSET	LT/RT	LUMINAIRE SERVICE PED	CKT	TYPE	NOTES
A 001	"EE" LINE 10+35	7.25	LT	MP-1	1	A	IN BRIDGE RAIL
A 002	"EE" LINE 10+49	7.25	LT	MP-1	1	A	IN BRIDGE RAIL
A 003	"EE" LINE 10+63	7.25	LT	MP-1	1	A	IN BRIDGE RAIL
A 004	"EE" LINE 10+77	7.25	LT	MP-1	1	A	IN BRIDGE RAIL
A 005	"EE" LINE 10+91	7.25	LT	MP-1	1	A	IN BRIDGE RAIL
A 006	"EE" LINE 11+05	7.25	LT	MP-1	1	A	IN BRIDGE RAIL
A 007	"EE" LINE 11+19	7.25	LT	MP-1	1	A	IN BRIDGE RAIL
A 008	"EE" LINE 11+33	7.25	LT	MP-1	1	A	IN BRIDGE RAIL
A 009	"EE" LINE 11+47	7.25	LT	MP-1	1	A	IN BRIDGE RAIL
A 010	"EE" LINE 11+61	7.25	LT	MP-1	1	A	IN BRIDGE RAIL
A 011	"EE" LINE 11+75	7.25	LT	MP-1	1	A	IN BRIDGE RAIL
A 012	"EE" LINE 11+89	7.25	LT	MP-1	1	A	IN BRIDGE RAIL
A 013	"EE" LINE 12+03	7.25	LT	MP-1	3	A	IN BRIDGE RAIL
A 014	"EE" LINE 12+17	7.25	LT	MP-1	3	A	IN BRIDGE RAIL
A 015	"EE" LINE 12+31	7.25	LT	MP-1	3	A	IN BRIDGE RAIL
A 016	"EE" LINE 12+45	7.25	LT	MP-1	3	A	IN BRIDGE RAIL
A 017	"EE" LINE 12+59	7.25	LT	MP-1	3	A	IN BRIDGE RAIL
A 018	"EE" LINE 12+73	7.25	LT	MP-1	3	A	IN BRIDGE RAIL
A 019	"EE" LINE 12+87	7.25	LT	MP-1	3	A	IN BRIDGE RAIL
A 020	"EE" LINE 13+01	7.25	LT	MP-1	3	A	IN BRIDGE RAIL
A 021	"EE" LINE 13+15	7.25	LT	MP-1	3	A	IN BRIDGE RAIL
A 022	"EE" LINE 13+29	7.25	LT	MP-1	3	A	IN BRIDGE RAIL
A 023	"EE" LINE 13+43	7.25	LT	MP-1	3	A	IN BRIDGE RAIL
A 024	"EE" LINE 13+57	7.25	LT	MP-1	3	A	IN BRIDGE RAIL
A 025	"EE" LINE 13+71	7.25	LT	MP-1	3	A	IN BRIDGE RAIL
A 026	"EE" LINE 13+85	7.25	LT	MP-1	3	A	IN BRIDGE RAIL
A 027	"EE" LINE 13+99	7.25	LT	MP-1	3	A	IN BRIDGE RAIL
A 028	"EE" LINE 14+13	7.25	LT	MP-1	3	A	IN BRIDGE RAIL
A 029	"EE" LINE 14+27	7.25	LT	MP-1	3	A	IN BRIDGE RAIL
A 030	"EE" LINE 14+41	7.25	LT	MP-1	3	A	IN BRIDGE RAIL
A 031	"EE" LINE 14+55	7.25	LT	MP-1	5	A	IN BRIDGE RAIL
A 032	"EE" LINE 14+69	7.25	LT	MP-1	5	A	IN BRIDGE RAIL
A 033	"EE" LINE 14+83	7.25	LT	MP-1	5	A	IN BRIDGE RAIL
A 034	"EE" LINE 14+97	7.25	LT	MP-1	5	A	IN BRIDGE RAIL
A 035	"EE" LINE 15+11	7.25	LT	MP-1	5	A	IN BRIDGE RAIL
A 036	"EE" LINE 15+25	7.25	LT	MP-1	5	A	IN BRIDGE RAIL
A 037	"EE" LINE 15+39	7.25	LT	MP-1	5	A	IN BRIDGE RAIL
A 038	"EE" LINE 15+53	7.25	LT	MP-1	7	A	IN BRIDGE RAIL
A 039	"EE" LINE 15+67	7.25	LT	MP-1	7	A	IN BRIDGE RAIL
A 040	"EE" LINE 15+81	7.25	LT	MP-1	7	A	IN BRIDGE RAIL
A 041	"EE" LINE 15+95	7.25	LT	MP-1	7	A	IN BRIDGE RAIL
A 042	"EE" LINE 16+09	7.25	LT	MP-1	7	A	IN BRIDGE RAIL
A 043	"EE" LINE 16+23	7.25	LT	MP-1	7	A	IN BRIDGE RAIL
A 044	"EE" LINE 16+37	7.25	LT	MP-1	7	A	IN BRIDGE RAIL
A 045	"EE" LINE 16+51	7.25	LT	MP-1	7	A	IN BRIDGE RAIL
A 046	"EE" LINE 16+65	7.25	LT	MP-1	7	A	IN BRIDGE RAIL
A 047	"EE" LINE 16+79	7.25	LT	MP-1	7	A	IN BRIDGE RAIL
A 048	"EE" LINE 16+93	7.25	LT	MP-1	7	A	IN BRIDGE RAIL
A 049	"EE" LINE 17+07	7.25	LT	MP-1	7	A	IN BRIDGE RAIL
A 050	"EE" LINE 17+21	7.25	LT	MP-1	7	A	IN BRIDGE RAIL
A 051	"EE" LINE 17+35	7.25	LT	MP-1	7	A	IN BRIDGE RAIL
A 052	"EE" LINE 17+49	7.25	LT	MP-1	7	A	IN BRIDGE RAIL
A 053	"EE" LINE 17+63	7.25	LT	MP-1	7	A	IN BRIDGE RAIL
A 054	"EE" LINE 17+77	7.25	LT	MP-1	7	A	IN BRIDGE RAIL
A 055	"EE" LINE 17+91	7.25	LT	MP-1	7	A	IN BRIDGE RAIL
A 056	"EE" LINE 18+05	7.25	LT	MP-1	7	A	IN BRIDGE RAIL
A 057	"EE" LINE 18+19	7.25	LT	MP-1	7	A	IN BRIDGE RAIL
A 058	"EE" LINE 18+33	7.25	LT	MP-1	9	A	IN BRIDGE RAIL
A 059	"EE" LINE 18+47	7.25	LT	MP-1	9	A	IN BRIDGE RAIL
A 060	"EE" LINE 18+61	7.25	LT	MP-1	9	A	IN BRIDGE RAIL

LUMINAIRE SCHEDULE

LOCATION NO.	STATION	OFFSET	LT/RT	LUMINAIRE SERVICE PED	CKT	TYPE	NOTES
A 061	"EE" LINE 18+75	7.25	LT	MP-1	9	A	IN BRIDGE RAIL
A 062	"EE" LINE 18+89	7.25	LT	MP-1	9	A	IN BRIDGE RAIL
A 063	"EE" LINE 19+03	7.25	LT	MP-1	9	A	IN BRIDGE RAIL
A 064	"EE" LINE 19+17	7.25	LT	MP-1	9	A	IN BRIDGE RAIL
A 065	"EE" LINE 19+31	7.25	LT	MP-1	9	A	IN BRIDGE RAIL
A 066	"EE" LINE 19+45	7.25	LT	MP-1	9	A	IN BRIDGE RAIL
A 067	"EE" LINE 19+59	7.25	LT	MP-1	9	A	IN BRIDGE RAIL
A 068	"EE" LINE 19+73	7.25	LT	MP-1	9	A	IN BRIDGE RAIL
A 069	"EE" LINE 19+87	7.25	LT	MP-1	9	A	IN BRIDGE RAIL
A 070	"EE" LINE 20+01	7.25	LT	MP-1	9	A	IN BRIDGE RAIL
A 071	"EE" LINE 20+15	7.25	LT	MP-1	9	A	IN BRIDGE RAIL
A 072	"EE" LINE 20+29	7.25	LT	MP-1	9	A	IN BRIDGE RAIL
A 073	"EE" LINE 20+43	7.25	LT	MP-1	9	A	IN BRIDGE RAIL
A 074	"EE" LINE 20+57	7.25	LT	MP-1	9	A	IN BRIDGE RAIL
A 075	"EE" LINE 20+71	7.25	LT	MP-1	9	A	IN BRIDGE RAIL
A 076	"EE" LINE 20+85	7.25	LT	MP-1	9	A	IN BRIDGE RAIL
A 077	"EE" LINE 20+99	7.25	LT	MP-1	9	A	IN BRIDGE RAIL
A 078	"EE" LINE 21+13	7.25	LT	MP-1	9	A	IN BRIDGE RAIL
A 079	"EE" LINE 21+27	7.25	LT	MP-2	9	A	IN BRIDGE RAIL
A 080	"EE" LINE 10+28	7.25	RT	MP-1	1	A	IN BRIDGE RAIL
A 081	"EE" LINE 10+42	7.25	RT	MP-1	1	A	IN BRIDGE RAIL
A 082	"EE" LINE 10+56	7.25	RT	MP-1	1	A	IN BRIDGE RAIL
A 083	"EE" LINE 10+70	7.25	RT	MP-1	1	A	IN BRIDGE RAIL
A 084	"EE" LINE 10+84	7.25	RT	MP-1	1	A	IN BRIDGE RAIL
A 085	"EE" LINE 10+98	7.25	RT	MP-1	1	A	IN BRIDGE RAIL
A 086	"EE" LINE 11+12	7.25	RT	MP-1	1	A	IN BRIDGE RAIL
A 087	"EE" LINE 11+26	7.25	RT	MP-1	1	A	IN BRIDGE RAIL
A 088	"EE" LINE 11+40	7.25	RT	MP-1	1	A	IN BRIDGE RAIL
A 089	"EE" LINE 11+54	7.25	RT	MP-1	1	A	IN BRIDGE RAIL
A 090	"EE" LINE 11+68	7.25	RT	MP-1	1	A	IN BRIDGE RAIL
A 091	"EE" LINE 11+82	7.25	RT	MP-1	1	A	IN BRIDGE RAIL
A 092	"EE" LINE 11+96	7.25	RT	MP-1	3	A	IN BRIDGE RAIL
A 093	"EE" LINE 12+10	7.25	RT	MP-1	3	A	IN BRIDGE RAIL
A 094	"EE" LINE 12+24	7.25	RT	MP-1	3	A	IN BRIDGE RAIL
A 095	"EE" LINE 12+38	7.25	RT	MP-1	3	A	IN BRIDGE RAIL
A 096	"EE" LINE 12+52	7.25	RT	MP-1	3	A	IN BRIDGE RAIL
A 097	"EE" LINE 12+66	7.25	RT	MP-1	3	A	IN BRIDGE RAIL
A 098	"EE" LINE 12+80	7.25	RT	MP-1	3	A	IN BRIDGE RAIL
A 099	"EE" LINE 12+94	7.25	RT	MP-1	3	A	IN BRIDGE RAIL
A 100	"EE" LINE 13+08	7.25	RT	MP-1	3	A	IN BRIDGE RAIL
A 101	"EE" LINE 13+22	7.25	RT	MP-1	3	A	IN BRIDGE RAIL
A 102	"EE" LINE 13+36	7.25	RT	MP-1	3	A	IN BRIDGE RAIL
A 103	"EE" LINE 13+50	7.25	RT	MP-1	3	A	IN BRIDGE RAIL
A 104	"EE" LINE 13+64	7.25	RT	MP-1	3	A	IN BRIDGE RAIL
A 105	"EE" LINE 13+78	7.25	RT	MP-1	3	A	IN BRIDGE RAIL
A 106	"EE" LINE 13+92	7.25	RT	MP-1	3	A	IN BRIDGE RAIL
A 107	"EE" LINE 14+06	7.25	RT	MP-1	3	A	IN BRIDGE RAIL
A 108	"EE" LINE 14+20	7.25	RT	MP-1	3	A	IN BRIDGE RAIL
A 109	"EE" LINE 14+34	7.25	RT	MP-1	3	A	IN BRIDGE RAIL
A 110	"EE" LINE 14+48	7.25	RT	MP-1	5	A	IN BRIDGE RAIL
A 111	"EE" LINE 14+62	7.25	RT	MP-1	5	A	IN BRIDGE RAIL
A 112	"EE" LINE 14+76	7.25	RT	MP-1	5	A	IN BRIDGE RAIL
A 113	"EE" LINE 14+90	7.25	RT	MP-1	5	A	IN BRIDGE RAIL
A 114	"EE" LINE 15+04	7.25	RT	MP-1	5	A	IN BRIDGE RAIL
A 115	"EE" LINE 15+18	7.25	RT	MP-1	5	A	IN BRIDGE RAIL
A 116	"EE" LINE 15+32	7.25	RT	MP-1	5	A	IN BRIDGE RAIL
A 117	"EE" LINE 15+46	7.25	RT	MP-1	7	A	IN BRIDGE RAIL
A 118	"EE" LINE 15+60	7.25	RT	MP-1	7	A	IN BRIDGE RAIL
A 119	"EE" LINE 15+74	7.25	RT	MP-1	7	A	IN BRIDGE RAIL

LUMINAIRE SCHEDULES

NO SCALE

E-9

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY

CHECKED BY

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PROFESSIONAL ENGINEER — 02/20/2025 DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KAREN DALE PURCELL — No. 15858 — Exp. DEC. 31, 2026 ELECTRICAL — STATE OF CALIFORNIA

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

LUMINAIRE SCHEDULE

LOCATION NO.	STATION	OFFSET	LT/RT	LUMINAIRE SERVICE PED	CKT	TYPE	NOTES
A 120	"EE" LINE 15+88	7.25	RT	MP-1	7	A	IN BRIDGE RAIL
A 121	"EE" LINE 16+02	7.25	RT	MP-1	7	A	IN BRIDGE RAIL
A 122	"EE" LINE 16+16	7.25	RT	MP-1	7	A	IN BRIDGE RAIL
A 123	"EE" LINE 16+30	7.25	RT	MP-1	7	A	IN BRIDGE RAIL
A 124	"EE" LINE 16+44	7.25	RT	MP-1	7	A	IN BRIDGE RAIL
A 125	"EE" LINE 16+58	7.25	RT	MP-1	7	A	IN BRIDGE RAIL
A 126	"EE" LINE 16+72	7.25	RT	MP-1	7	A	IN BRIDGE RAIL
A 127	"EE" LINE 16+86	7.25	RT	MP-1	7	A	IN BRIDGE RAIL
A 128	"EE" LINE 17+00	7.25	RT	MP-1	7	A	IN BRIDGE RAIL
A 129	"EE" LINE 17+14	7.25	RT	MP-1	7	A	IN BRIDGE RAIL
A 130	"EE" LINE 17+28	7.25	RT	MP-1	7	A	IN BRIDGE RAIL
A 131	"EE" LINE 17+42	7.25	RT	MP-1	7	A	IN BRIDGE RAIL
A 132	"EE" LINE 17+56	7.25	RT	MP-1	7	A	IN BRIDGE RAIL
A 133	"EE" LINE 17+70	7.25	RT	MP-1	7	A	IN BRIDGE RAIL
A 134	"EE" LINE 17+84	7.25	RT	MP-1	7	A	IN BRIDGE RAIL
A 135	"EE" LINE 17+98	7.25	RT	MP-1	7	A	IN BRIDGE RAIL
A 136	"EE" LINE 18+12	7.25	RT	MP-1	7	A	IN BRIDGE RAIL
A 137	"EE" LINE 18+26	7.25	RT	MP-1	9	A	IN BRIDGE RAIL
A 138	"EE" LINE 18+40	7.25	RT	MP-1	9	A	IN BRIDGE RAIL
A 139	"EE" LINE 18+54	7.25	RT	MP-1	9	A	IN BRIDGE RAIL
A 140	"EE" LINE 18+68	7.25	RT	MP-1	9	A	IN BRIDGE RAIL
A 141	"EE" LINE 18+82	7.25	RT	MP-1	9	A	IN BRIDGE RAIL
A 142	"EE" LINE 18+96	7.25	RT	MP-1	9	A	IN BRIDGE RAIL
A 143	"EE" LINE 19+10	7.25	RT	MP-1	9	A	IN BRIDGE RAIL
A 144	"EE" LINE 19+24	7.25	RT	MP-1	9	A	IN BRIDGE RAIL
A 145	"EE" LINE 19+38	7.25	RT	MP-1	9	A	IN BRIDGE RAIL
A 146	"EE" LINE 19+52	7.25	RT	MP-1	9	A	IN BRIDGE RAIL
A 147	"EE" LINE 19+66	7.25	RT	MP-1	9	A	IN BRIDGE RAIL
A 148	"EE" LINE 19+80	7.25	RT	MP-1	9	A	IN BRIDGE RAIL
A 149	"EE" LINE 19+94	7.25	RT	MP-1	9	A	IN BRIDGE RAIL
A 150	"EE" LINE 20+08	7.25	RT	MP-1	9	A	IN BRIDGE RAIL
B 01	"EE" LINE 17+38	10.68	LT	MP-1	8	B1	
B 02	"EE" LINE 17+86	15.5	LT	MP-1	8	B1	
B 03	"EE" LINE 17+41	10.9	LT	MP-1	8	B2	
C 01	"EE" LINE 11+89	0	-	MP-1	4	C1	IN SOFFIT
C 02	"EE" LINE 12+03	0	-	MP-1	4	C1	IN SOFFIT
C 03	"EE" LINE 12+17	0	-	MP-1	4	C1	IN SOFFIT
C 04	"EE" LINE 12+31	0	-	MP-1	4	C1	IN SOFFIT
C 05	"EE" LINE 12+38	0	-	MP-1	4	C1	IN SOFFIT
C 06	"EE" LINE 12+59	0	-	MP-1	4	C1	IN SOFFIT
C 07	"EE" LINE 12+80	0	-	MP-1	4	C1	IN SOFFIT
C 08	"EE" LINE 12+87	0	-	MP-1	4	C1	IN SOFFIT
C 09	"EE" LINE 13+08	0	-	MP-1	4	C1	IN SOFFIT
C 10	"EE" LINE 13+29	0	-	MP-1	4	C1	IN SOFFIT
C 11	"EE" LINE 13+36	0	-	MP-1	4	C2	IN SOFFIT
C 12	"EE" LINE 13+57	0	-	MP-1	4	C2	IN SOFFIT
C 13	"EE" LINE 13+78	0	-	MP-1	4	C2	IN SOFFIT
C 14	"EE" LINE 13+85	0	-	MP-1	4	C2	IN SOFFIT
C 15	"EE" LINE 14+13	0	-	MP-1	4	C2	IN SOFFIT
C 16	"EE" LINE 14+34	0	-	MP-1	4	C2	IN SOFFIT
C 17	"EE" LINE 14+41	0	-	MP-1	6	C2	IN SOFFIT
C 18	"EE" LINE 14+69	0	-	MP-1	6	C2	IN SOFFIT
C 19	"EE" LINE 14+90	0	-	MP-1	6	C2	IN SOFFIT
C 20	"EE" LINE 15+18	0	-	MP-1	6	C2	IN SOFFIT

LUMINAIRE SCHEDULE

LOCATION NO.	STATION	OFFSET	LT/RT	LUMINAIRE SERVICE PED	CKT	TYPE	NOTES
C 21	"EE" LINE 17+35	0	-	MP-1	6	C2	IN SOFFIT
C 22	"EE" LINE 17+77	0	-	MP-1	6	C2	IN SOFFIT
C 23	"EE" LINE 18+05	0	-	MP-1	6	C2	IN SOFFIT
C 24	"EE" LINE 18+26	0	-	MP-1	6	C2	IN SOFFIT
C 25	"EE" LINE 18+33	0	-	MP-1	10	C1	IN SOFFIT
C 26	"EE" LINE 18+54	0	-	MP-1	10	C1	IN SOFFIT
C 27	"EE" LINE 18+68	0	-	MP-1	10	C1	IN SOFFIT
C 28	"EE" LINE 18+82	0	-	MP-1	10	C1	IN SOFFIT
C 29	"EE" LINE 18+89	0	-	MP-1	10	C1	IN SOFFIT
C 30	"EE" LINE 19+03	0	-	MP-1	10	C1	IN SOFFIT
C 31	"EE" LINE 19+17	0	-	MP-1	10	C1	IN SOFFIT
C 32	"EE" LINE 19+31	0	-	MP-1	10	C1	IN SOFFIT
F 01	"EE" LINE 10+36	7.75	RT	MP-1	2	F	
F 02	"EE" LINE 10+56	7.75	RT	MP-1	2	F	
F 03	"EE" LINE 10+76	7.75	RT	MP-1	2	F	
F 04	"EE" LINE 10+96	7.75	RT	MP-1	2	F	
F 05	"EE" LINE 11+16	7.75	RT	MP-1	2	F	
F 06	"EE" LINE 11+36	7.75	RT	MP-1	2	F	
F 07	"EE" LINE 11+56	7.75	RT	MP-1	2	F	
F 08	"EE" LINE 11+76	7.75	RT	MP-1	2	F	
F 09	"EE" LINE 19+43	7.75	RT	MP-1	10	F	
F 10	"EE" LINE 19+63	7.75	RT	MP-1	10	F	
F 11	"EE" LINE 19+83	7.75	RT	MP-1	10	F	
G 01	"EE" LINE 10+02	4.6	RT	MP-1	4	G	
G 02	"EE" LINE 20+38	40	RT			G	POWERED BY SRJC
G 03	"EE" LINE 20+14	58	RT			G	POWERED BY SRJC
G 04	"EE" LINE 20+17	92	RT			G	POWERED BY SRJC
G 05	"EE" LINE 21+44	23.2	RT	MP-1	12	G	
G 06	"EE" LINE 21+69	10	LT	MP-1	12	G	
G 07	"EE" LINE 21+36	16.5	LT	MP-1	12	G	
G 08	"EE" LINE 20+20	25.5	RT	MP-1	10	G	
J 01				MP-1	4	J	AT SEAT WALL
J 02				MP-1	12	J	AT SEAT WALL
J 03				MP-1	12	J	AT SEAT WALL
K 01				MP-1	4	J	AT SEAT WALL
K 02				MP-1	12	J	AT SEAT WALL
K 03				MP-1	12	J	AT SEAT WALL
K 04				MP-1	10	J	AT SEAT WALL
K 05				MP-1	10	K	AT SEAT WALL
L 01				MP-1	12	L	
L 02				MP-1	12	L	
L 03				MP-1	12	L	
L 04				MP-1	12	L	
L 05				MP-1	12	L	
L 06				MP-1	12	L	
R 01	"EE" LINE 12+49	10.5	LT	(E)	(E)	(E)	RELOCATE (E) PARKING LOT LUMINAIRE

LUMINAIRE SCHEDULES

NO SCALE

E-10

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY | CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION 06-28-24 | DATE PLOTTED => Feb 20 2025 | TIME PLOTTED => 8:18 am

BORDER LAST REVISED 7/2/2010 | USERNAME => bdagerman | DGN FILE => 21151-E-8 to E-13.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	89	247

PROFESSIONAL ENGINEER — 02/20/2025 DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KAREN DALE PURCELL — No. 15858 — Exp. DEC. 31, 2026 ELECTRICAL — STATE OF CALIFORNIA

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.

PK ELECTRICAL, INC.
681 SIERRA ROSE DR, SUITE B
RENO, NV 89511

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

CONDUIT/CONDUCTOR SCHEDULE

RUN NO.		FROM	TO	CONDUIT					CONDUCTORS							NOTES
				PLASTIC		METAL			CIRCUITS			GROUND		POWER		
				2"	3/4"	2-1/2"	3/4"	1/2"	CIRCUIT #'S		VOLTAGE	#10	#8	#10	#8	
0	01	RAIL LIGHT	RAIL LIGHT								24VDC			2		NOTE 1, NOTE 2
1	01	LUMINAIRE F01	LUMINAIRE F02		1				MP-1	2	120VAC	1		2		
1	02	LUMINAIRE F02	LUMINAIRE F03		1				MP-1	2	120VAC	1		2		
1	03	LUMINAIRE F03	LUMINAIRE F04		1				MP-1	2	120VAC	1		2		
1	04	LUMINAIRE F04	LUMINAIRE F05		1				MP-1	2	120VAC	1		2		
1	05	LUMINAIRE F05	LUMINAIRE F06		1				MP-1	2	120VAC	1		2		
1	06	LUMINAIRE F06	LUMINAIRE F07		1				MP-1	2	120VAC	1		2		
1	07	LUMINAIRE F07	LUMINAIRE F08		1				MP-1	2	120VAC	1		2		
1	08	LUMINAIRE F08	PULL BOX 1d	1					MP-1	2	120VAC	1		2		
1	09	PULL BOX 1d	PULL BOX 2a	1					MP-1	1,2,4,20	120VAC		1		8	
1	10	PULL BOX 2a	PULL BOX 2d	1					MP-1	1,2,3,4,20	120VAC		1		10	
1	11	PULL BOX 1d	PULL BOX 1c	1					MP-1	4	120VAC		1		2	
1	12	PULL BOX 1d	PULL BOX 1e	1					MP-1	1	120VAC		1		2	
1	13	PULL BOX 2a	PULL BOX 2b	1					MP-1	3	120VAC		1		2	
1	14	PULL BOX 2d	PULL BOX 2e	1					MP-1	5	120VAC		1		2	
1	15	PULL BOX 1c	PULL BOX 1b	1					MP-1	4	120VAC		1		2	
1	16	PULL BOX 1b	PULL BOX 1a	1					MP-1	4	120VAC		1		2	
1	17	PULL BOX 1a	LUMINAIRE K01		1				MP-1	4	24VDC			2		NOTE 2
1	18	PULL BOX 1b	LUMINAIRE G01		1				MP-1	4	120VAC	1		2		
1	19	PULL BOX 1a	LUMINAIRE J01		1				MP-1	4	24VDC			2		NOTE 2
1	20	PULL BOX 1d	JUNCTION BOX M01		1				MP-1	20	24VDC	1		2		NOTE 2
2	01	SERVICE PEDESTAL MP-1	PULL BOX 2h	2					MP-1	1,2,3,4,5,6,7,20	120VAC		2		16	NOTE 3, NOTE 4
2	02	SERVICE PEDESTAL MP-1	PULL BOX 2K	1					MP-1	8,9,10,12,18	120VAC		1		10	NOTE 4
2	03	PULL BOX 2k	LUMINAIRE B01	1					MP-1	8	120VAC	1		2		
2	04	PULL BOX 2k	LUMINAIRE B02	1					MP-1	8	120VAC	1		2		
2	05	PULL BOX 2k	PULL BOX 2m	1					MP-1	9,10,12	120VAC		1		6	
2	06	PULL BOX 2m	PULL BOX 2n	1					MP-1	9,10,12	120VAC		1		6	
2	07	PULL BOX 2n	PULL BOX 2p	1					MP-1	9,10	120VAC		1		4	
2	08	PULL BOX 2n	PULL BOX 3a	1					MP-1	9,10,12	120VAC		1		6	
2	09	PULL BOX 3a	PULL BOX 3b	1					MP-1	9	120VAC		1		2	
2	10	PULL BOX 3a	PULL BOX 3s	1					MP-1	10,12	120VAC		1		4	
2	11	PULL BOX 3c	PULL BOX 3f	1					MP-1	12	120VAC		1		2	
2	12	PULL BOX 3f	PULL BOX 3k	1					MP-1	12	120VAC		1		2	
2	13	PULL BOX 3f	PULL BOX 3g	1					MP-1	12	120VAC		1		2	
2	14	PULL BOX 3f	PULL BOX 3j	1					MP-1	12	120VAC		1		2	
2	15	PULL BOX 3j	PULL BOX 3h	1					MP-1	12	120VAC		1		2	
2	16	PULL BOX 3c	PULL BOX 3d	1					MP-1	10	120VAC		1		2	
2	17	PULL BOX 3d	PULL BOX 3e	1					MP-1	10	120VAC		1		2	
2	18	PULL BOX 3e	LUMINAIRE K04		1				MP-1	10	24VDC			2		NOTE 2
2	19	PULL BOX 3d	LUMINAIRE K05		1				MP-1	10	24VDC			2		NOTE 2
2	20	PULL BOX 3k	LUMINAIRE G07		1				MP-1	12	120VAC	1		2		
2	21	PULL BOX 3g	LUMINAIRE K02		1				MP-1	12	24VDC			2		NOTE 2
2	22	PULL BOX 3g	LUMINAIRE J02		1				MP-1	12	24VDC			2		NOTE 2
2	23	PULL BOX 3h	PULL BOX 3i	1					MP-1	12	120VAC		1		2	
2	24	PULL BOX 3i	LUMINAIRE K03		1				MP-1	12	24VDC			2		NOTE 2
2	25	PULL BOX 3i	LUMINAIRE J03		1				MP-1	12	24VDC			2		NOTE 2
2	26	PULL BOX 3h	LUMINAIRE G06		1				MP-1	12	120VAC	1		2		
2	27	PULL BOX 3j	LUMINAIRE L02		1				MP-1	12	120VAC	1		2		
2	28	LUMINAIRE L02	LUMINAIRE L01		1				MP-1	12	120VAC	1		2		
2	29	PULL BOX 3j	LUMINAIRE L04		1				MP-1	12	120VAC	1		2		
2	30	LUMINAIRE L04	LUMINAIRE L03		1				MP-1	12	120VAC	1		2		
2	31	PULL BOX 3j	LUMINAIRE L06		1				MP-1	12	120VAC	1		2		
2	32	LUMINAIRE L06	LUMINAIRE L05		1				MP-1	12	120VAC	1		2		
2	33	PULL BOX 3f	LUMINAIRE G05		1				MP-1	12	120VAC	1		2		
2	34	PULL BOX 3c	LUMINAIRE G08		1				MP-1	10	120VAC	1		2		
2	35	PULL BOX 2p	PULL BOX 2q	1					MP-1	9	120VAC		1		2	
2	36	PULL BOX 2h	PULL BOX 2r	1					MP-1	7	120VAC		1		2	
2	37	PULL BOX 3s	PULL BOX 3c						MP-1	10,12	120VAC		1		4	
2	38	PULL BOX 2k	LUMINAIRE B03	1					MP-1	8	120VAC	1		2		
2	39	PULL BOX 3s	LUMINAIRE F09		1				MP-1	10	120VAC	1		2		
2	40	LUMINAIRE F09	LUMINAIRE F10		1				MP-1	10	120VAC	1		2		

NOTES:

1. INSTALL INTO RAIL. SEE "GUARD DETAILS" SHEETS IN THE "EDWARDS AVE POC" PLANS FOR ADDITIONAL INFORMATION.
2. LOW VOLTAGE 2-WIRE POWER CABLE.
3. SPLIT CIRCUITS EVENLY BETWEEN CONDUITS.
4. PROVIDE (2) SPARE 2" CONDUITS WITH PULL STRING.
5. CONNECT TO RAIL. SEE ARCHITECTURAL RAIL DRAWINGS FOR TRANSITION INTO THE RAIL.
6. CONDUIT FOR FUTURE SONOMA BROADBAND USE. PROVIDE WITH PULL STRING.
7. CONNECT TO SRJC SITE LIGHTING CIRCUITS. COORDINATE WITH SRJC.

CONDUIT AND CONDUCTOR SCHEDULE

NO SCALE

E-11

LAST REVISION 06-28-24 | DATE PLOTTED => Feb 20 2025 | TIME PLOTTED => 8:18 am

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY | CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

BORDER LAST REVISED 7/2/2010

USERNAME => bdagerman
DGN FILE => 21151-E-8 to E-13.dwg

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0751

PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	90	247

PROFESSIONAL ENGINEER — 02/20/2025 DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KAREN DALE PURCELL — No. 15858 — Exp. DEC. 31, 2026 ELECTRICAL — STATE OF CALIFORNIA

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PK ELECTRICAL, INC.
681 SIERRA ROSE DR, SUITE B
RENO, NV 89511

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

CONDUIT/CONDUCTOR SCHEDULE

RUN NO.		FROM	TO	CONDUIT					CONDUCTORS							NOTES
				PLASTIC		METAL			CIRCUITS			GROUND		POWER		
				2"	3/4"	2-1/2"	3/4"	1/2"	CIRCUIT #'S	VOLTAGE		#10	#8	#10	#8	
2	41	LUMINAIRE F10	LUMINAIRE F11		1				MP-1	10	120VAC	1		2		
2	42	PULL BOX 2r	PULL BOX 2i	1					MP-1	7	120VAC		1		2	
3	01	UNDER BRIDGE C01	UNDER BRIDGE C02				1		MP-1	4	120VAC		1		2	
3	02	UNDER BRIDGE C02	UNDER BRIDGE C03				1		MP-1	4	120VAC		1		2	
3	03	UNDER BRIDGE C03	UNDER BRIDGE C04				1		MP-1	4	120VAC		1		2	
3	04	UNDER BRIDGE C04	UNDER BRIDGE C05				1		MP-1	4	120VAC		1		2	
3	05	UNDER BRIDGE C05	UNDER BRIDGE C06				1		MP-1	4	120VAC		1		2	
3	06	UNDER BRIDGE C06	UNDER BRIDGE C07				1		MP-1	4	120VAC		1		2	
3	07	UNDER BRIDGE C07	UNDER BRIDGE C08				1		MP-1	4	120VAC		1		2	
3	08	UNDER BRIDGE C08	UNDER BRIDGE C09				1		MP-1	4	120VAC		1		2	
3	09	UNDER BRIDGE C09	UNDER BRIDGE C10				1		MP-1	4	120VAC		1		2	
3	10	UNDER BRIDGE C10	UNDER BRIDGE C11				1		MP-1	4	120VAC		1		2	
3	11	UNDER BRIDGE C11	UNDER BRIDGE C12				1		MP-1	4	120VAC		1		2	
3	12	UNDER BRIDGE C12	UNDER BRIDGE C13				1		MP-1	4	120VAC		1		2	
3	13	UNDER BRIDGE C13	UNDER BRIDGE C14				1		MP-1	4	120VAC		1		2	
3	14	UNDER BRIDGE C14	UNDER BRIDGE C15				1		MP-1	4	120VAC		1		2	
3	15	UNDER BRIDGE C15	UNDER BRIDGE C16				1		MP-1	4	120VAC		1		2	
4	01	UNDER BRIDGE C18	UNDER BRIDGE C19				1		MP-1	4	120VAC		1		2	
4	02	UNDER BRIDGE C19	UNDER BRIDGE C20				1		MP-1	6	120VAC		1		2	
4	03	UNDER BRIDGE C20	UNDER BRIDGE C21				1		MP-1	6	120VAC		1		2	
4	04	UNDER BRIDGE C21	UNDER BRIDGE C22				1		MP-1	6	120VAC		1		2	
4	05	UNDER BRIDGE C22	UNDER BRIDGE C23				1		MP-1	6	120VAC		1		2	
4	06	UNDER BRIDGE C23	UNDER BRIDGE C24				1		MP-1	6	120VAC		1		2	
4	07	UNDER BRIDGE C17	UNDER BRIDGE C18				1		MP-1	6	120VAC		1		2	
5	01	UNDER BRIDGE C25	UNDER BRIDGE C26				1		MP-1	10	120VAC		1		2	
5	02	UNDER BRIDGE C26	UNDER BRIDGE C27				1		MP-1	10	120VAC		1		2	
5	03	UNDER BRIDGE C27	UNDER BRIDGE C28				1		MP-1	10	120VAC		1		2	
5	04	UNDER BRIDGE C28	UNDER BRIDGE C29				1		MP-1	10	120VAC		1		2	
5	05	UNDER BRIDGE C29	UNDER BRIDGE C30				1		MP-1	10	120VAC		1		2	
5	06	UNDER BRIDGE C30	UNDER BRIDGE C31				1		MP-1	10	120VAC		1		2	
5	07	UNDER BRIDGE C31	UNDER BRIDGE C32				1		MP-1	10	120VAC		1		2	
6	01	PULL BOX 1e	LUMINAIRE A091				1		MP-1	1	24VDC			2		NOTE 2, NOTE 5
6	02	PULL BOX 1e	LUMINAIRE A012				1		MP-1	1	24VDC			2		NOTE 2, NOTE 5
6	03	PULL BOX 2b	JUNCTION BOX N01				1		MP-1	3	24VDC			4		NOTE 2
6	04	JUNCTION BOX N01	LUMINAIRE A025					1	MP-1	3	24VDC			2		NOTE 2, NOTE 5
6	05	JUNCTION BOX N01	LUMINAIRE A105					1	MP-1	3	24VDC			2		NOTE 2, NOTE 5
6	06	PULL BOX 2a	UNDER BRIDGE C13				1		MP-1	4	120VAC		1		2	
6	07	PULL BOX 2e	JUNCTION BOX N02				1		MP-1	5	24VDC			4		NOTE 2
6	08	JUNCTION BOX N02	LUMINAIRE A035					1	MP-1	5	24VDC			2		NOTE 2, NOTE 5
6	09	JUNCTION BOX N02	LUMINAIRE A114					1	MP-1	5	24VDC			2		NOTE 2, NOTE 5
7	01	PULL BOX 2j	PULL BOX 2f			1			MP-1							NOTE 6
7	02	PULL BOX 2h	PULL BOX 2d			1			MP-1	1,2,3,4,5,20	120VAC		1		12	
8	01	PULL BOX 2i	JUNCTION BOX N03				1		MP-1	7	24VDC			4		NOTE 2
8	02	JUNCTION BOX N03	LUMINAIRE A054					1	MP-1	7	24VDC			2		NOTE 2, NOTE 5
8	03	JUNCTION BOX N03	LUMINAIRE A133					1	MP-1	7	24VDC			2		NOTE 2, NOTE 5
8	04	PULL BOX 2r	UNDER BRIDGE C22				1		MP-1	6	120VAC		1		2	
8	05	PULL BOX 2q	JUNCTION BOX N04				1		MP-1	9	24VDC			4		NOTE 2
8	06	JUNCTION BOX N04	LUMINAIRE A058					1	MP-1	9	24VDC			2		NOTE 2, NOTE 5
8	07	JUNCTION BOX N04	LUMINAIRE A138					1	MP-1	9	24VDC			2		NOTE 2, NOTE 5
8	08	PULL BOX 2p	UNDER BRIDGE C25				1		MP-1	10	120VAC		1		2	
8	09	PULL BOX 2k	JUNCTION BOX M02				1		MP-1	18	120VAC		1		2	
8	10	PULL BOX 3b	LUMINAIRE A066				1		MP-1	9	24VDC			2		NOTE 2, NOTE 5
8	11	PULL BOX 3b	LUMINAIRE A145				1		MP-1	9	24VDC			2		NOTE 2, NOTE 5
9	01	PULL BOX 3m	LUMINAIRE G02		1						240VAC	1		2		NOTE 7
9	02	PULL BOX 3m	PULL BOX 3n	1							240VAC	1		2		NOTE 7
9	03	PULL BOX 3n	LUMINAIRE G03		1						240VAC	1		2		NOTE 7
9	04	PULL BOX 3n	PULL BOX 3q	1							240VAC	1		2		NOTE 7
9	05	PULL BOX 3q	LUMINAIRE G04		1						240VAC	1		2		NOTE 7
9	06	PULL BOX 3q	PULL BOX 3r	1							240VAC	1		2		NOTE 7

NOTES:

1. INSTALL INTO RAIL. SEE "GUARD DETAILS" SHEETS IN THE "EDWARDS AVE POC" PLANS FOR ADDITIONAL INFORMATION.
2. LOW VOLTAGE 2-WIRE POWER CABLE.
3. SPLIT CIRCUITS EVENLY BETWEEN CONDUITS.
4. PROVIDE (2) SPARE 2" CONDUITS WITH PULL STRING.
5. CONNECT TO RAIL. SEE ARCHITECTURAL RAIL DRAWINGS FOR TRANSITION INTO THE RAIL.
6. CONDUIT FOR FUTURE SONOMA BROADBAND USE. PROVIDE WITH PULL STRING.
7. CONNECT TO SRJC SITE LIGHTING CIRCUITS. COORDINATE WITH SRJC.

CONDUIT AND CONDUCTOR SCHEDULE & PULLBOX SCHEDULE

NO SCALE

E-12

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY | CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR — JAGGI S. BHANDAL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 06-28-24 | DATE PLOTTED => Feb 20 2025 | TIME PLOTTED => 8:18 am

BORDER LAST REVISED 7/2/2010 | USERNAME => bdagerman | DGN FILE => 21151-E-8 to E-13.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

NOTES:
PULLBOX TYPES CORRESPOND TO CALTRANS STANDARD IN-GRADE PULLBOX SIZES (5, 7, ETC.). (T) DESIGNATION INDICATES TRAFFIC RATED LID.

DRIVER ENCLOSURE PART NUMBERS ARE AS INDICATED IN THE NOTES COLUMN.

SONOMA BROADBAND PULL STRUCTURES ARE PROVIDED BY SONOMA BROADBAND, INSTALLED BY THE CONTRACTOR.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	91	247

PROFESSIONAL ENGINEER — DATE: 02/20/2025

REGISTERED PROFESSIONAL ENGINEER — KAREN DALE PURCELL — No. 15858 — Exp. DEC. 31, 2026 ELECTRICAL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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PK ELECTRICAL, INC.
681 SIERRA ROSE DR, SUITE B
RENO, NV 89511

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

JUNCTION BOX SCHEDULE

NO.	STATION		OFFSET	LT/RT	TYPE	NOTES
M01	"EE" LINE	11+89	2.13	LT	4-SQ	IRRIGATION CONTROLLER, AT ABT 1
M02	"EE" LINE	17+50	10.2	LT	4-SQ	BIKE/PEDESTRIAN COUNTER SYSTEM, IN PYLON
N01	"EE" LINE	13+72	0	-	4-SQ	UNDERSIDE OF STRUCTURE, W/ BLANK COVER
N02	"EE" LINE	15+06	0	-	4-SQ	UNDERSIDE OF STRUCTURE, W/ BLANK COVER
N03	"EE" LINE	17+68	0	-	4-SQ	UNDERSIDE OF STRUCTURE, W/ BLANK COVER
N04	"EE" LINE	18+41	0	-	4-SQ	UNDERSIDE OF STRUCTURE, W/ BLANK COVER

PULL BOX SCHEDULE

NO.	STATION		OFFSET	LT/RT	TYPE	NOTES
1a	"EE" LINE	10+02	1	RT	DRIVER ENCLOSURE	QTRAN Q-VAULT-5-BK-ST
1b	"EE" LINE	10+02	6.5	RT	5(T)	
1c	"EE" LINE	10+28	9.3	RT	5	
1d	"EE" LINE	11+92	3.5	RT	5	
1e	"EE" LINE	11+92	6.5	LT	DRIVER ENCLOSURE	QTRAN Q-VAULT-5-BK-ST
1f	"EE" LINE	12+55	9	LT	5(T)	
2a	"EE" LINE	13+77	3.6	RT	5	
2b	"EE" LINE	13+77	1.8	RT	DRIVER ENCLOSURE	QTRAN Q-VAULT-5-BK-ST
2d	"EE" LINE	15+18	2.6	RT	7(T)	
2e	"EE" LINE	15+18	0.75	RT	DRIVER ENCLOSURE	QTRAN Q-VAULT-5-BK-ST
2f	"EE" LINE	15+12	2.5	LT	FIBER -TRAFFIC RATED	SONOMA BROADBAND
2h	"EE" LINE	17+50	2.4	RT	7	
2i	"EE" LINE	17+50	0.5	RT	DRIVER ENCLOSURE	QTRAN Q-VAULT-5-BK-ST
2j	"EE" LINE	17+46	1.5	LT	FIBER	SONOMA BROADBAND
2k	"EE" LINE	17+53	4.2	LT	7	
2m	"EE" LINE	17+56	28.5	LT	5	
2n	"EE" LINE	18+26	28.5	LT	5	
2p	"EE" LINE	18+26	0.75	LT	5	
2q	"EE" LINE	18+26	1.5	RT	DRIVER ENCLOSURE	QTRAN Q-VAULT-5-BK-ST
2r	"EE" LINE	17+61	2.18	RT	5	
3a	"EE" LINE	19+31	27.5	LT	5	
3b	"EE" LINE	19+31	8.75	LT	DRIVER ENCLOSURE	QTRAN Q-VAULT-5-BK-ST
3c	"EE" LINE	20+98	24.5	RT	5	
3d	"EE" LINE	20+80	19.5	RT	DRIVER ENCLOSURE	QTRAN Q-VAULT-5-BK-ST
3e	"EE" LINE	20+54	18.5	RT	DRIVER ENCLOSURE	QTRAN Q-VAULT-5-BK-ST
3f	"EE" LINE	21+42	21.75	RT	5	
3g	"EE" LINE	21+59	21.75	RT	DRIVER ENCLOSURE	QTRAN Q-VAULT-5-BK-ST
3h	"EE" LINE	21+68	11.5	LT	5	
3i	"EE" LINE	21+67	12.5	LT	DRIVER ENCLOSURE	QTRAN Q-VAULT-5-BK-ST
3j	"EE" LINE	21+61	2.25	LT	5	
3k	"EE" LINE	21+34	15.5	LT	5	
3m	"EE" LINE	20+36	40.5	RT	5	SRJC LIGHTS
3n	"EE" LINE	20+15	60	RT	5	SRJC LIGHTS
3q	"EE" LINE	20+16	93.4	RT	5	SRJC LIGHTS
3r	"EE" LINE	20+07	125.75	RT	5	SRJC LIGHTS
3s	"EE" LINE	19+39	9.7	RT	5	

PULLBOX & JUNCTION BOX SCHEDULES

NO SCALE

E-13

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CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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BORDER LAST REVISED 7/2/2010 | USERNAME => bdagerman | DGN FILE => 21151-E-8 to E-13.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

NOTES:

1. SEE CONDUIT SCHEDULES ON SHEETS E-11 AND E-12 FOR CONDUIT AND CONDUCTOR SIZES.

2. SEE LUMINAIRE LOCATION SCHEDULES ON SHEETS E-9 AND E-10 FOR LUMINAIRE CIRCUITS AND LOCATIONS.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	92	247

PROFESSIONAL ENGINEER — DATE: 4/1/2025

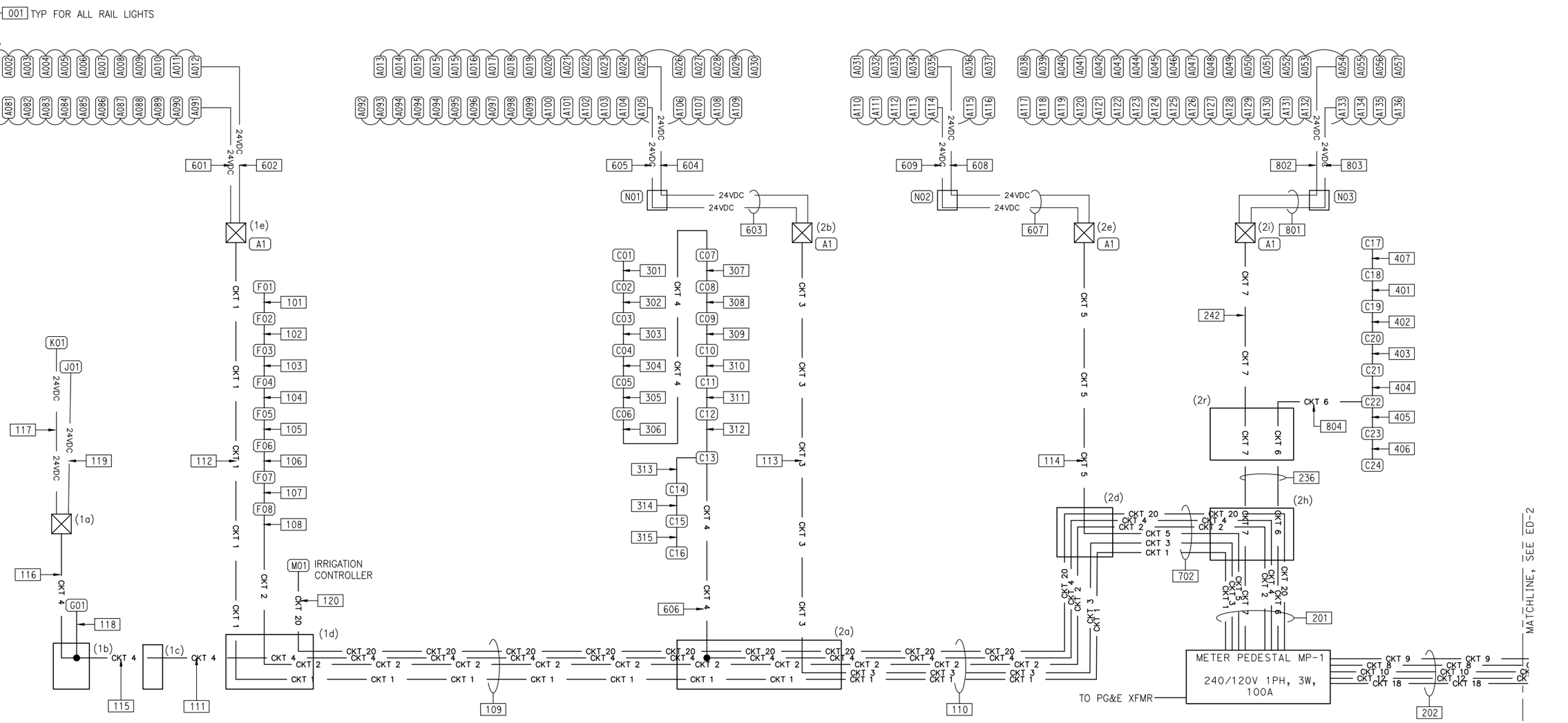
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KAREN DALE PURCELL — No. 15858 — Exp. DEC. 31, 2026 ELECTRICAL — STATE OF CALIFORNIA

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RENO, NV 89511

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404



ELECTRICAL SYSTEMS DETAILS
CIRCUIT DIAGRAM

NO SCALE

ED-1

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY | CHECKED BY

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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NOTES:

1. SEE CONDUIT SCHEDULES ON SHEETS E-11 AND E-12 FOR CONDUIT AND CONDUCTOR SIZES.

2. SEE LUMINAIRE LOCATION SCHEDULES ON SHEETS E-9 AND E-10 FOR LUMINAIRE CIRCUITS AND LOCATIONS.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	93	247

PROFESSIONAL ENGINEER — DATE: 4/1/2025

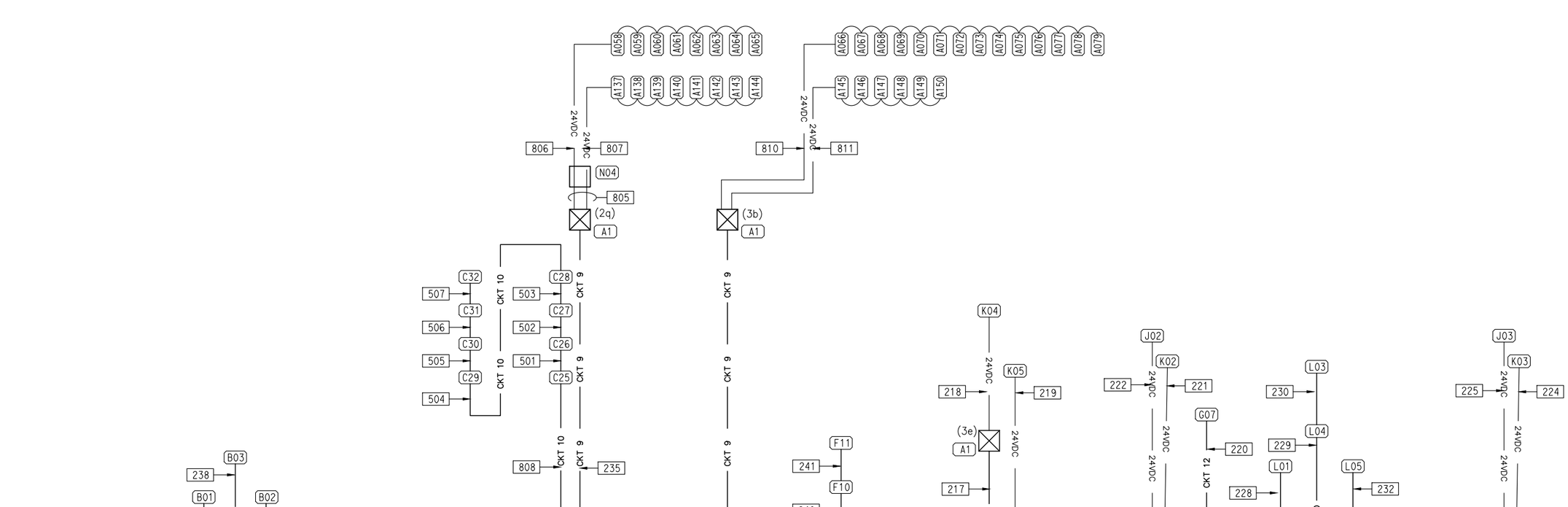
KAREN DALE PURCELL No. 15858 Exp. DEC. 31, 2026 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404



ELECTRICAL SYSTEMS DETAILS
CIRCUIT DIAGRAM

NO SCALE

ED-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL
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LAST REVISION 06-28-24
DATE PLOTTED => Apr 01, 2025
TIME PLOTTED => 4:28 pm

BORDER LAST REVISED 7/2/2010
USERNAME => bdagerman
DGN FILE => 21151-ED-1 to ED-4.dwg
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0751
PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	**94**	247

PROFESSIONAL ENGINEER — DATE: 4/1/2025

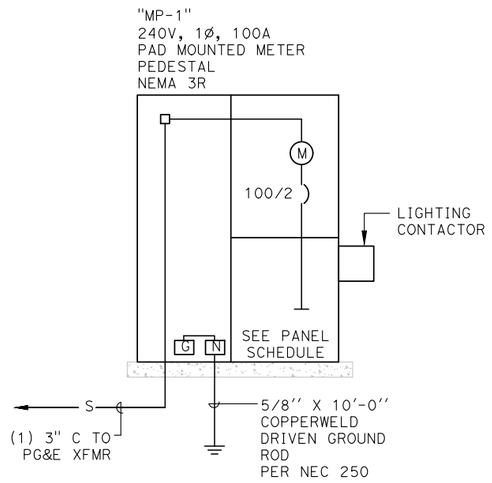
KAREN DALE PURCELL
No. 15858
Exp. DEC. 31, 2026
ELECTRICAL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

PLANS APPROVAL DATE

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69 STONY CIRCLE
SANTA ROSA, CA 95404

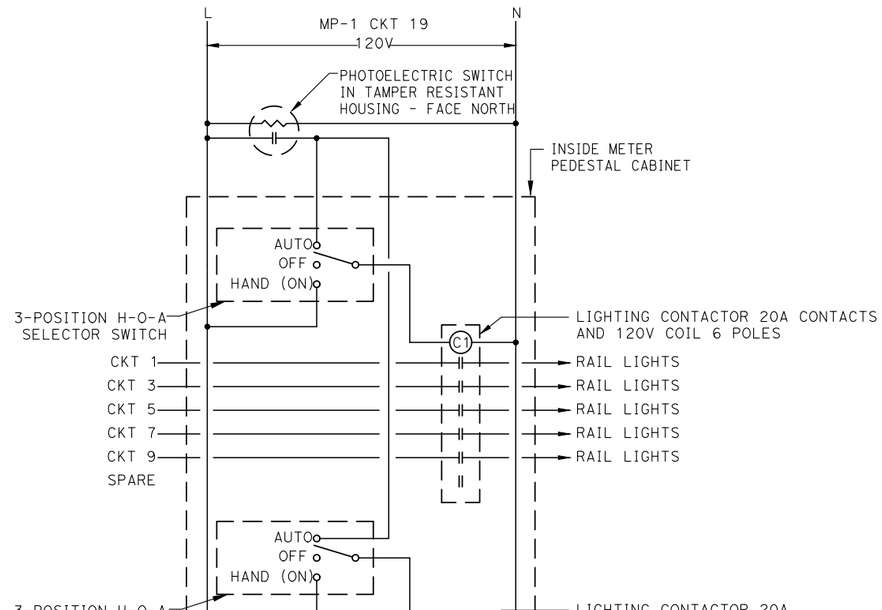


PANEL: **MP-1** LOCATION: **ARMORY/ELLIOTT**

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	CIR	BKR	LOAD	DESCRIPTION	TYPE
L	RAIL- STA 10-12 [C1]	46	20	1	126		2	20	80	WABT/COLUMNS [C2]	L
L	RAIL - STA 12-14+50 [C1]	69	20	3		320	4	20	251	W SOFFIT/TOUCHDOWN [C2]	L
L	RAIL - STA 14+50 - 15+30 [C1	27	20	5	139		6	20	112	SOFFIT [C2]	L
L	RAIL - STA 15+30 - 18+50 [C1	76	20	7		520	8	20	444	PYLON [C2]	L
L	RAIL - STA 18+50 - 21+25 [C1	69	20	9	244		10	20	175	E SOFFIT/PATHWAY [C2]	L
	SPARE		20	11		269	12	20	269	E TOUCHDOWN [C2]	L
	SPARE		20	13	0		14	20		SPARE	
	SPARE		20	15		0	16	20		SPARE	
	SPARE		20	17	100		18	20	100	PEDESTRIAN COUNTER	E
E	LIGHTING CONTROL	50	20	19		150	20	20	100	IRRIGATION CONTROLLER	E

		609	1259		
COPPER BUS SIZE:	100	**GROUND:**	STANDARD		**NOTES:**
VOLTAGE:	240	**MOUNTING:**	PEDESTAL		[C1] VIA CONTACTOR C1
PHASE:	1	**ENCLOSURE:**	NEMA 3R		[C2] VIA CONTACTOR C2
WIRE:	3	**# OF 1-POLE CIRCUITS**	20		SEE LIGHTING CONTROL DETAIL
LUGS:	MLO	**CONNECTED KVA:**		1.9	
BREAKER AIC RATING:	22K	**CONNECTED AMPS:**		7.8	
NEUTRAL:	100%	**NET KVA:**		1.9	
FEEDER OCPD SIZE:	100	**NET AMPS:**		7.8	

MP-1 ONELINE DIAGRAM AND PANEL SCHEDULE



LIGHTING CONTROL DETAIL

ELECTRICAL SYSTEMS DETAILS

NO SCALE

ED-3

REVISED BY | DATE REVISED
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION 06-28-24
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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0751
PROJECT NUMBER & PHASE 04130002131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	**95**	247

PROFESSIONAL ENGINEER — DATE: 4/1/2025

PLANS APPROVAL DATE

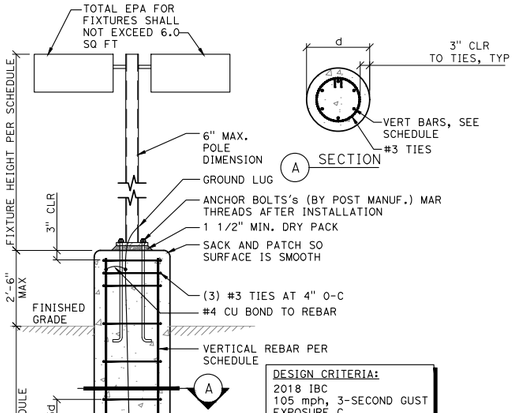
REGISTERED PROFESSIONAL ENGINEER — KAREN DALE PURCELL — No. 15858 — Exp. DEC. 31, 2026 ELECTRICAL — STATE OF CALIFORNIA

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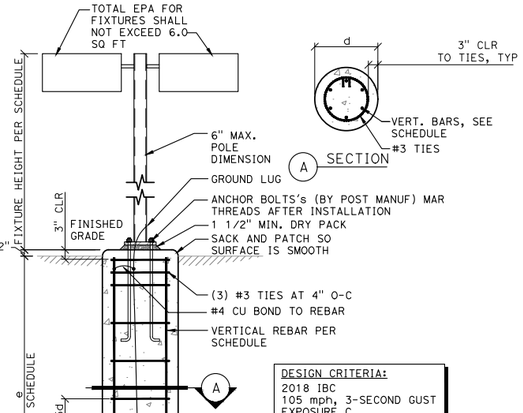
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

Pedestal						
Max. Fixture Height	Option Base d in.	e in.	Vertical Bars	Option 2 d in.	e in.	Vertical Bars
12'-0"	18	50	(4) #5	24	45	(4) #6
16'-0"	18	57	(4) #5	24	51	(4) #6
20'-0"	18	65	(4) #5	24	59	(4) #6
25'-0"	24	66	(4) #6	30	60	(6) #6
30'-0"	24	72	(4) #6	30	68	(6) #6
35'-0"	24	80	(4) #6	30	74	(6) #6



PEDESTAL LIGHT POLE FOUNDATION

Flush Base						
Max. Fixture Height	Option d in.	1 e in.	Vertical Bars	Option d in.	2 e in.	Vertical Bars
12'-0"	18	47	(4) #5	24	42	(4) #6
16'-0"	18	54	(4) #5	24	48	(4) #6



FLUSH LIGHT POLE FOUNDATION

ELECTRICAL SYSTEMS DETAILS

NO SCALE

ED-4

REVISED BY	DATE REVISED
CALCULATED-DESIGNED BY	CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: JAGGI S. BHANDAL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 06-28-24 | DATE PLOTTED => Apr 01, 2025 | TIME PLOTTED => 4:28 pm

BORDER LAST REVISED 7/2/2010 | USERNAME => bdagerman | DGN FILE => 21151-ED-1 to ED-4.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04130002131

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	96	247

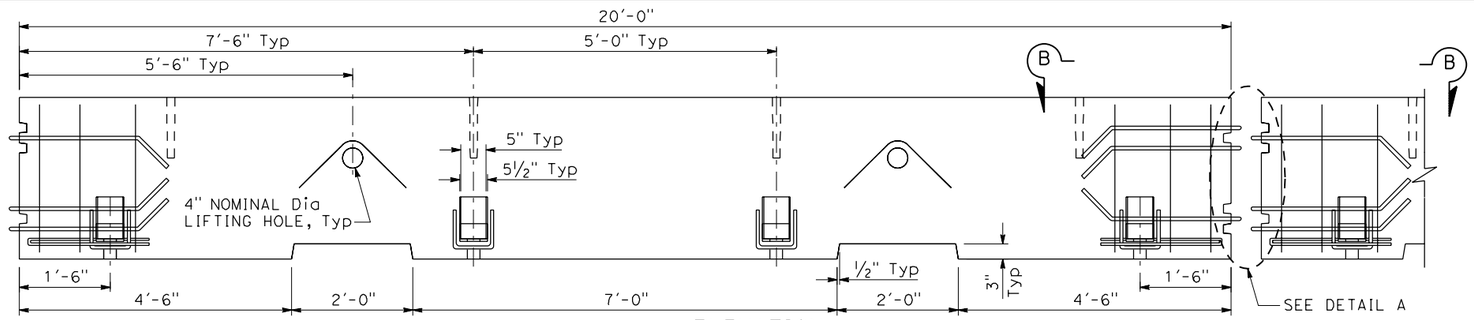
REGISTERED CIVIL ENGINEER — DATE

October 21, 2024
PLANS APPROVAL DATE

Mohan V. Bonala
No. C63046
Exp. 6-30-26
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

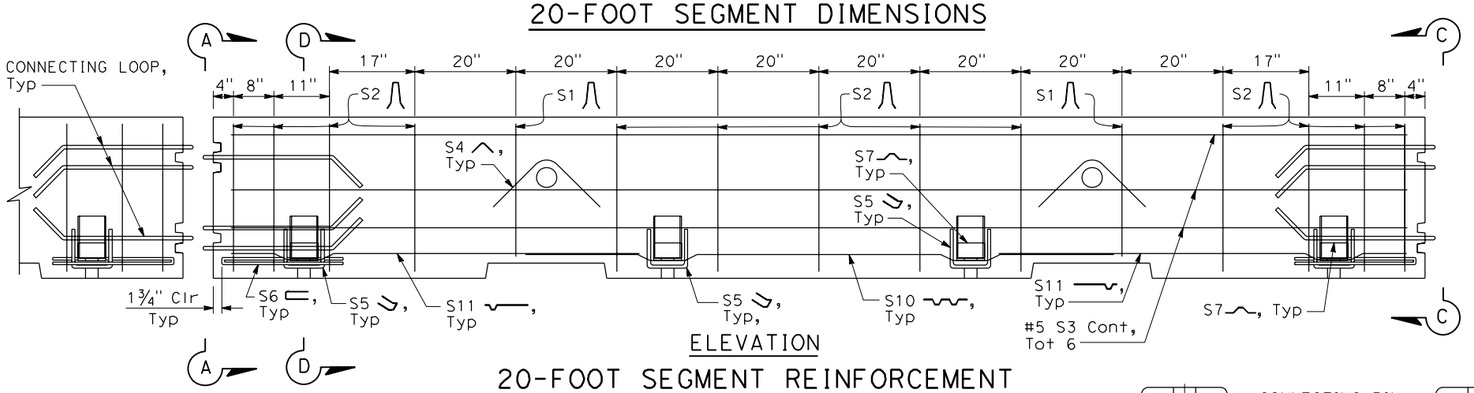
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TO ACCOMPANY PLANS DATED _____



ELEVATION

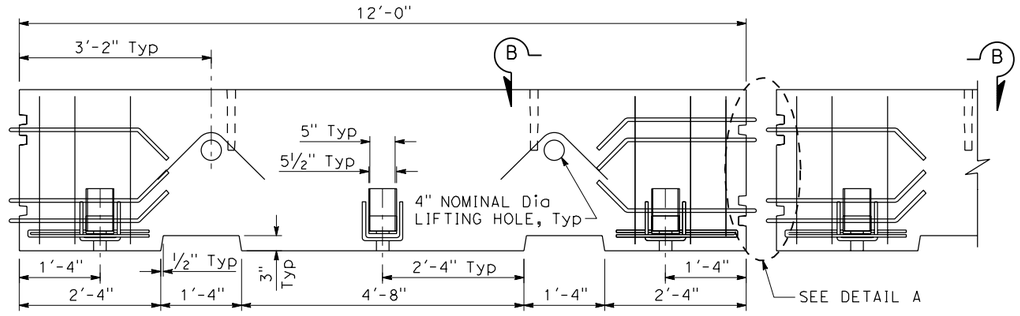
20-FOOT SEGMENT DIMENSIONS



ELEVATION

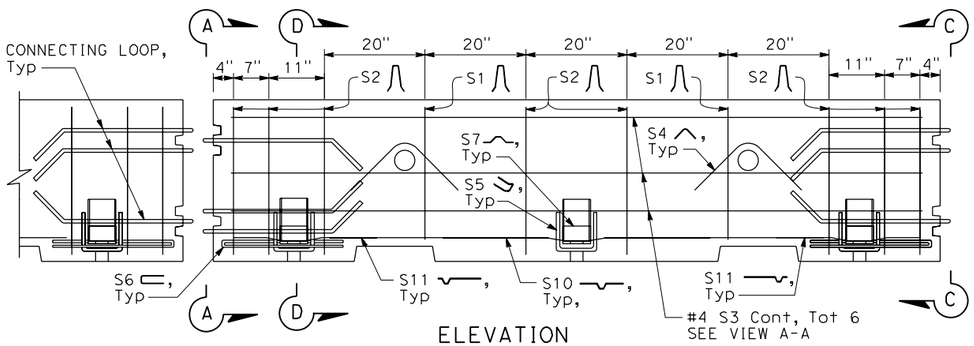
20-FOOT SEGMENT REINFORCEMENT

Weight per panel: approximately 4.8 Tons



ELEVATION

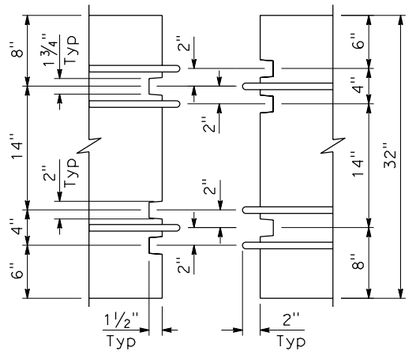
12-FOOT SEGMENT DIMENSIONS



ELEVATION

12-FOOT SEGMENT REINFORCEMENT

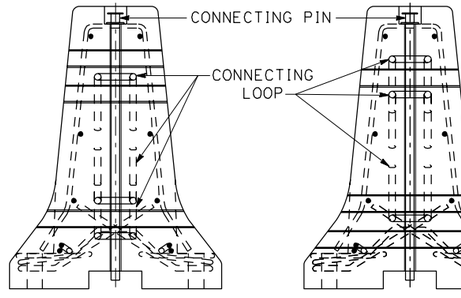
Weight per panel: approximately 2.9 Tons



DETAIL A

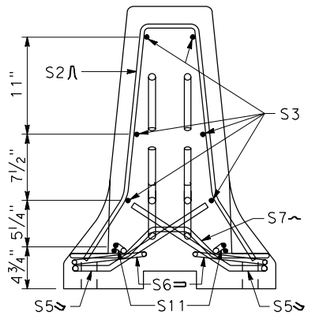
NOTES:

1. Barrier segment edges must be chamfered ¾" or tooled radius.
2. Steel reinforcement must have a minimum 1" concrete coverage.
3. Steel reinforcement may be bent to accommodate joint connection hardware, staking holes, and lifting holes.
4. A continuous steel reinforcement bar may be used instead of S10 and S11.

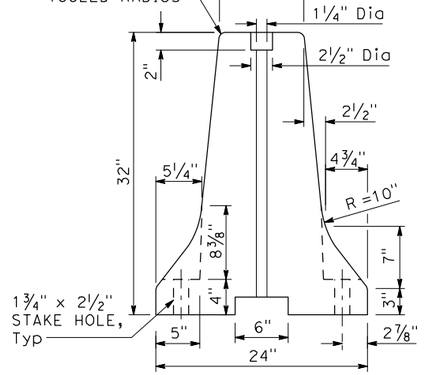


VIEW A-A

VIEW C-C

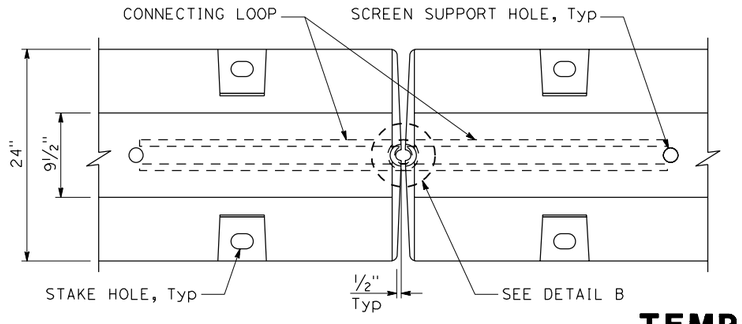


SECTION D-D

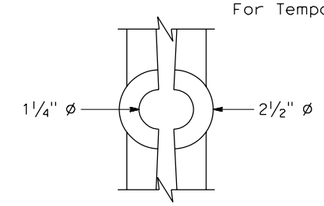


TYPICAL SECTION TYPE F

For Temporary Barrier Cal-F23



VIEW B-B



DETAIL B

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY BARRIER SYSTEM (CAL F-23)

NO SCALE

RSP T3F DATED OCTOBER 21, 2024 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2024.

REVISED STANDARD PLAN RSP T3F

2024 REVISED STANDARD PLAN RSP T3F

9-12-24

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	97	247

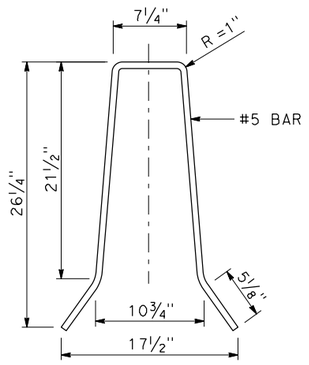
REGISTERED CIVIL ENGINEER DATE

October 21, 2024
PLANS APPROVAL DATE

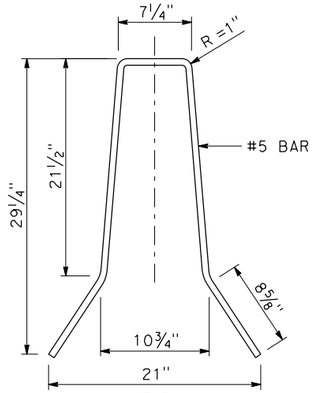
REGISTERED PROFESSIONAL ENGINEER
Mohan V. Bonala
No. C63046
Exp. 6-30-26
CIVIL
STATE OF CALIFORNIA

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.

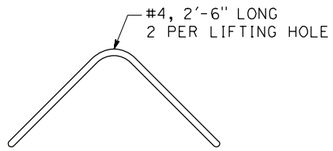
TO ACCOMPANY PLANS DATED _____



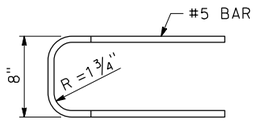
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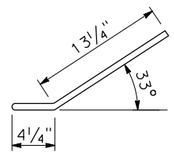
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S4

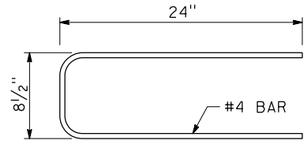


PLAN



ELEVATION

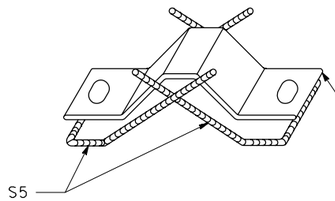
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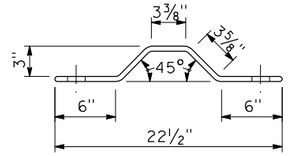
S6

NOTE:

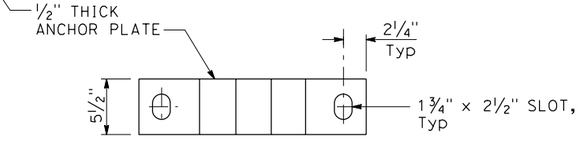
1. Reinforcement S5, S6, and S7 must be galvanized post fabrication.



ISOMETRIC

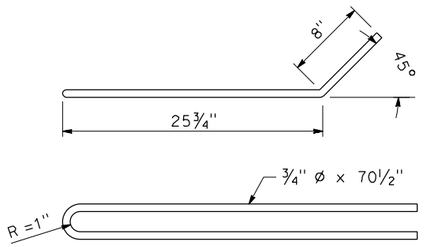


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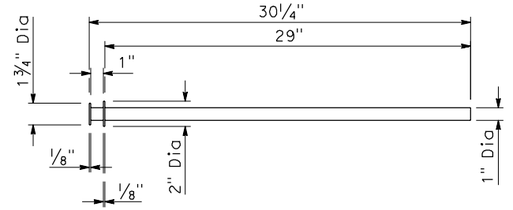
PLAN

S7 ANCHOR PLATE



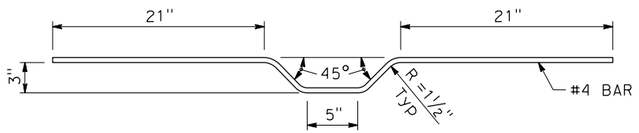
CONNECTING LOOP

3 per segment end (Total 6)

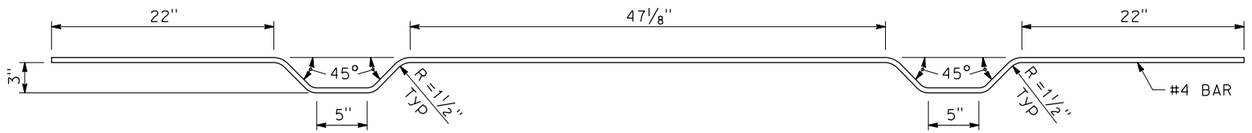


CONNECTING PIN

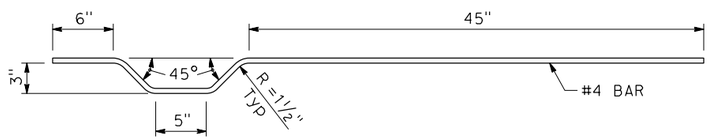
1 per joint



S10

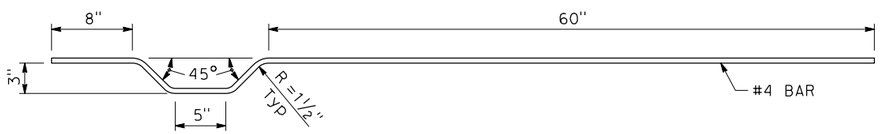


S10



S11

12-FOOT SEGMENT



S11

20-FOOT SEGMENT

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY BARRIER SYSTEM (CAL F-23)

NO SCALE

RSP T3F2 DATED OCTOBER 21, 2024 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2024.

REVISED STANDARD PLAN RSP T3F2

2024 REVISED STANDARD PLAN RSP T3F2

9-12-24

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	98	247

REGISTERED CIVIL ENGINEER DATE

October 21, 2024
PLANS APPROVAL DATE

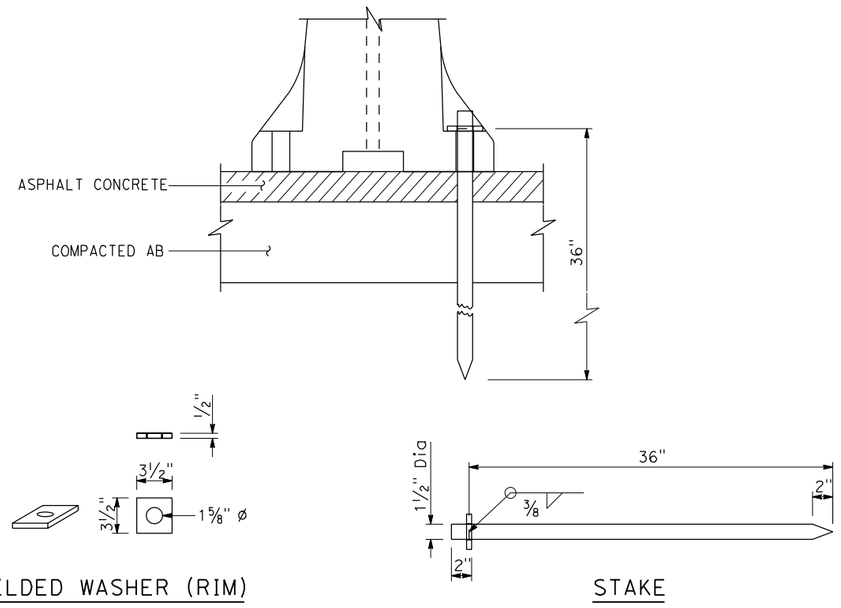
REGISTERED PROFESSIONAL ENGINEER — Mohan V. Bonala — No. C63046 — Exp. 6-30-26 — CIVIL — STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED _____

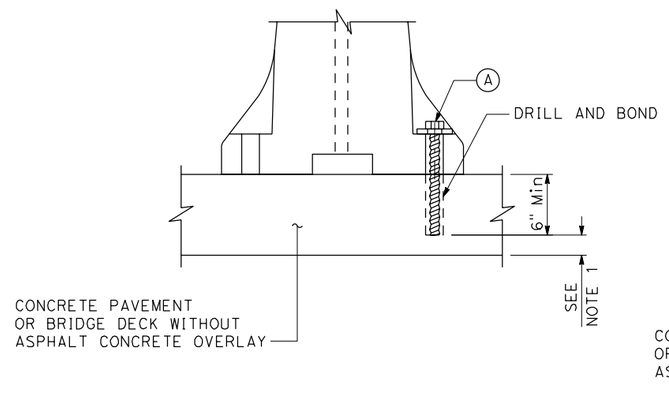
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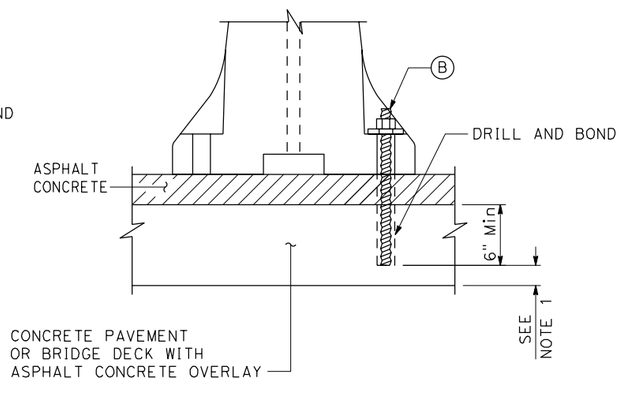
1. Maintain a minimum 1½" clearance from bottom for bridge decks.
2. Staked temporary barrier systems must be supported by a minimum 4" thick asphalt concrete or existing asphalt concrete pavement.

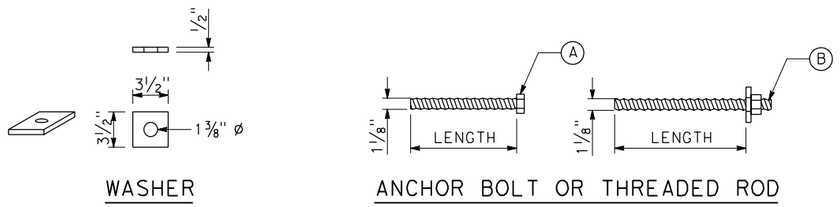


WELDED WASHER (RIM) STAKE

STAKE DETAILS

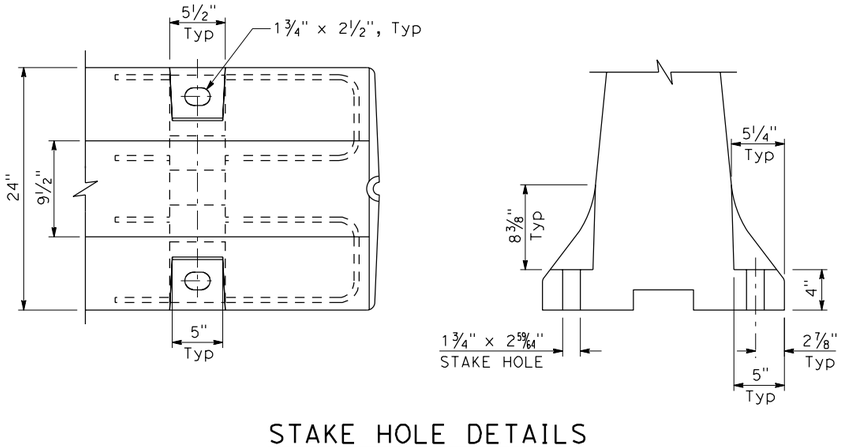






WASHER ANCHOR BOLT OR THREADED ROD

ANCHOR DETAILS



STAKE HOLE DETAILS

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY BARRIER SYSTEM (STAKING OR ANCHORING)

NO SCALE

RSP T3G DATED OCTOBER 21, 2024 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2024.

REVISED STANDARD PLAN RSP T3G

2024 REVISED STANDARD PLAN RSP T3G

9-12-24

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	99	247

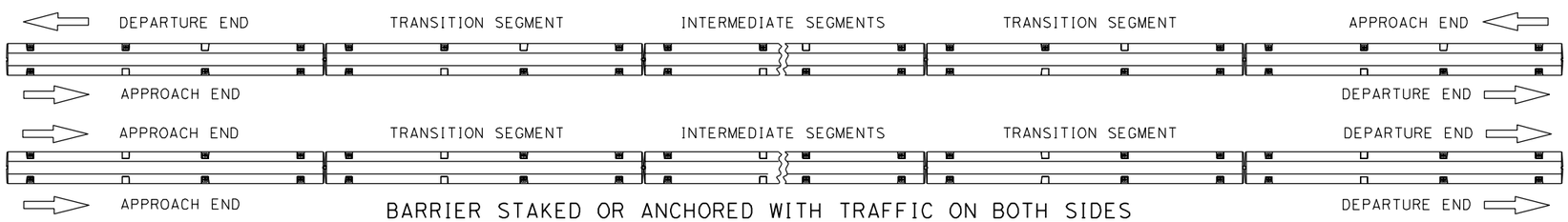
REGISTERED CIVIL ENGINEER — DATE

October 21, 2024
PLANS APPROVAL DATE

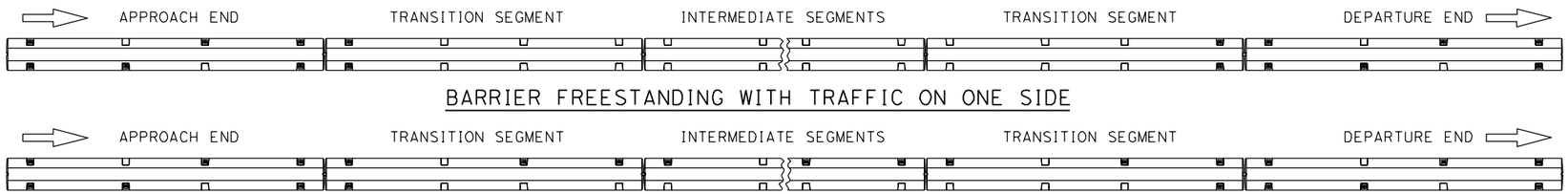
REGISTERED PROFESSIONAL ENGINEER
Mohan V. Bonala
No. C63046
Exp. 6-30-26
CIVIL
STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED _____



BARRIER STAKED OR ANCHORED WITH TRAFFIC ON BOTH SIDES



BARRIER FREESTANDING WITH TRAFFIC ON ONE SIDE

BARRIER STAKED OR ANCHORED WITH TRAFFIC ON ONE SIDE

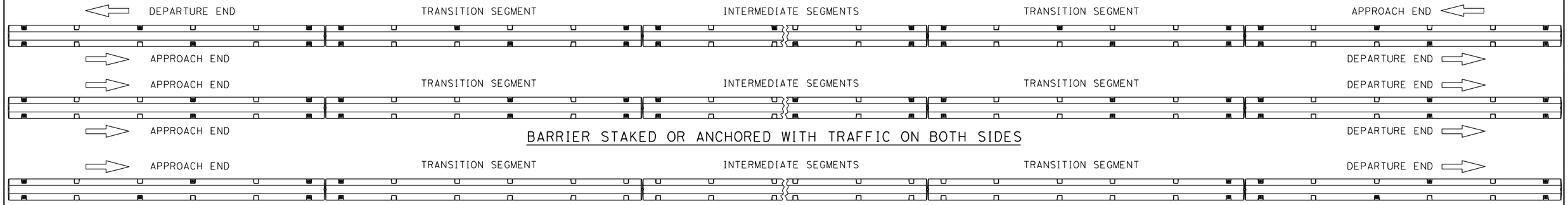
20-FOOT CROSS BOLT OR CAL F-23

NOTE:

1. Staked temporary barrier systems must be supported by a minimum 4" thick asphalt concrete or existing asphalt concrete pavement.

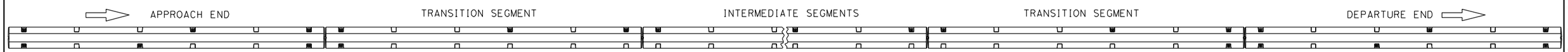
LEGEND

- • STAKE OR ANCHOR
- ⇨ DIRECTION OF TRAFFIC



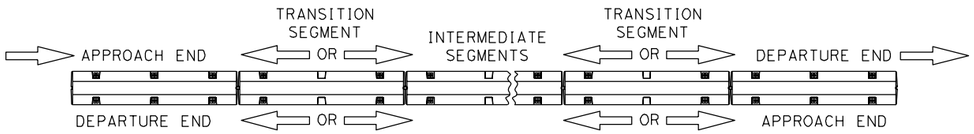
BARRIER STAKED OR ANCHORED WITH TRAFFIC ON BOTH SIDES

BARRIER FREESTANDING WITH TRAFFIC ON ONE SIDE

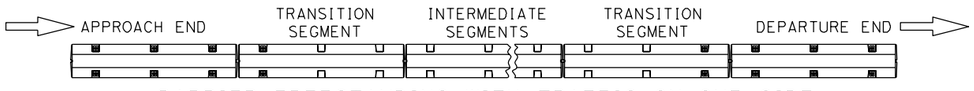


BARRIER STAKED OR ANCHORED WITH TRAFFIC ON ONE SIDE

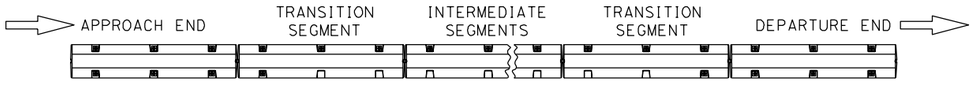
30-FOOT CROSS BOLT



BARRIER STAKED OR ANCHORED WITH TRAFFIC ON BOTH SIDES



BARRIER FREESTANDING WITH TRAFFIC ON ONE SIDE



BARRIER STAKED OR ANCHORED WITH TRAFFIC ON ONE SIDE

10-FOOT CROSS BOLT OR 12-FOOT CAL F-23

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY BARRIER SYSTEM (STAKING OR ANCHORING)

NO SCALE

RSP T3G2 DATED OCTOBER 21, 2024 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2024.

REVISED STANDARD PLAN RSP T3G2

2024 REVISED STANDARD PLAN RSP T3G2

9-12-24

NOTES: UNLESS OTHERWISE SPECIFIED

1. SYSTEM TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
2. SEE ASSEMBLY AND INSTALLATION MANUAL FOR ADDITIONAL DETAILS.
3. A DRIVING CAP WITH A TIMBER OR PLASTIC INSERT SHALL BE USED WHEN DRIVING THE POST TO PREVENT DAMAGE TO THE GALVANIZING ON THE TOP OF THE POST.
4. CABLES SHALL BE TIGHTENED USING THE HEX NUTS AT THE ISS PANEL UNTIL THEY ARE NOT VISIBLY SAGGING BETWEEN THE POST. DO NOT TIGHTEN THE CABLES AT THE FRONT OF THE GROUND STRUT ANCHOR.
5. SYSTEM SHOWN USING STEEL WIDE FLANGE POST WITH COMPOSITE BLOCKOUTS.
6. ALL STEEL COMPONENTS ARE GALVANIZED PER ASTM A123 OR EQUIVALENT UNLESS OTHERWISE STATED.
7. IF A DELINEATION MARKER IS REQUIRED, MARKER SHALL BE IN ACCORDANCE WITH LOCAL STANDARDS AND SPECIFICATIONS.

△8. EXTRA SELF-DRILLING SCREW IS PROVIDED.

△9. ITEM IS PART OF KIT P/N: BSI-1702051-KT: MAX-TENSION SYSTEM HW KIT.

△10. ITEM IS PART OF KIT P/N: BSI-1702052-KT: MAX-TENSION GUARDRAIL SPLICE HW KIT, IMPERIAL.

△11 ITEM IS PART OF KIT P/N: BSI-1702053-KT: MAX-TENSION POST HW KIT, IMPERIAL.

△12 RECESSED HEX NUTS TO BE INSTALLED ON TRAFFIC SIDE.

TO ACCOMPANY CONTRACT
PLANS DATED

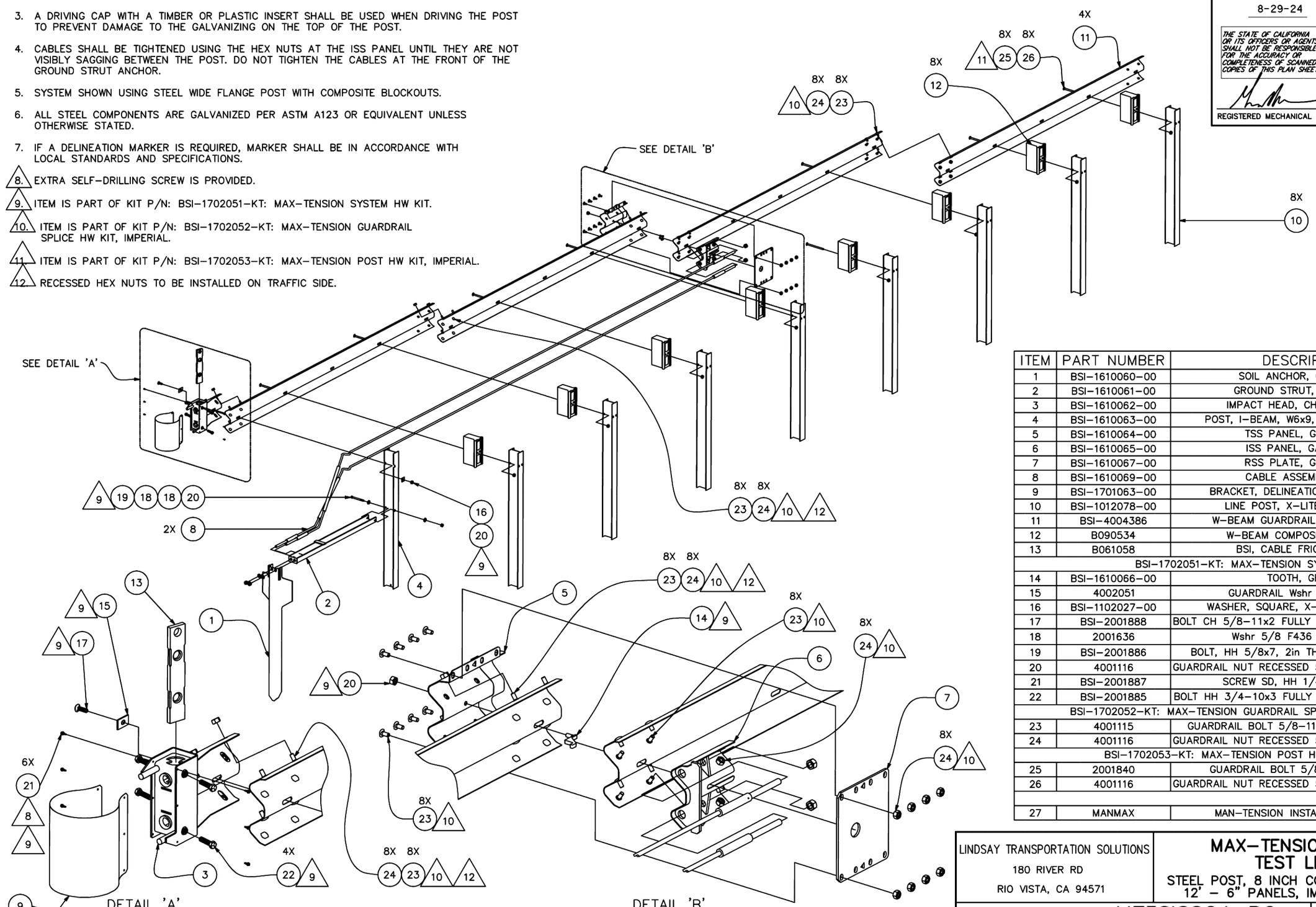
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	100	247

DATE THIS PLAN APPROVED
8-29-24

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REGISTERED MECHANICAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER
GERRIT A. DYKE
No. M33056
Exp. 6-30-25
MECHANICAL
STATE OF CALIFORNIA



ITEM	PART NUMBER	DESCRIPTION	QTY
1	BSI-1610060-00	SOIL ANCHOR, GALVANIZED	1
2	BSI-1610061-00	GROUND STRUT, GALVANIZED	1
3	BSI-1610062-00	IMPACT HEAD, CHASE THREADS	1
4	BSI-1610063-00	POST, I-BEAM, W6x9, 6Ft., GALVANIZED	1
5	BSI-1610064-00	TSS PANEL, GALVANIZED	1
6	BSI-1610065-00	ISS PANEL, GALVANIZED	1
7	BSI-1610067-00	RSS PLATE, GALVANIZED	1
8	BSI-1610069-00	CABLE ASSEMBLY, MXTN	2
9	BSI-1701063-00	BRACKET, DELINEATION, MAX-TENSION	1
10	BSI-1012078-00	LINE POST, X-LITE, GALVANIZED	8
11	BSI-4004386	W-BEAM GUARDRAIL PANEL, RWM04a	4
12	B090534	W-BEAM COMPOSITE BLOCKOUT	8
13	B061058	BSI, CABLE FRICTION PLATE	1
BSI-1702051-KT: MAX-TENSION SYSTEM KIT			
14	BSI-1610066-00	TOOTH, GEOMET	1
15	4002051	GUARDRAIL Wshr Rect AASHTO	1
16	BSI-1102027-00	WASHER, SQUARE, X-LITE, GALVANIZED	1
17	BSI-2001888	BOLT CH 5/8-11x2 FULLY THREADED,Gr5,Geomet	1
18	2001636	Wshr 5/8 F436 Struct MGalv	2
19	BSI-2001886	BOLT, HH 5/8x7, 2in THREADS, Gr5, Geomet	1
20	4001116	GUARDRAIL NUT RECESSED 5/8-11,Gr2 MGal	3
21	BSI-2001887	SCREW SD, HH 1/4x3/4, 410 SS	6
22	BSI-2001885	BOLT HH 3/4-10x3 FULLY THREADED,Gr5,Geomet	4
BSI-1702052-KT: MAX-TENSION GUARDRAIL SPLICE HW KIT, IMPERIAL			
23	4001115	GUARDRAIL BOLT 5/8-11x1 1/4,Gr2 Mgal	48
24	4001116	GUARDRAIL NUT RECESSED 5/8-11,Gr2 MGal	48
BSI-1702053-KT: MAX-TENSION POST HW KIT, IMPERIAL			
25	2001840	GUARDRAIL BOLT 5/8-11 x 10, MGalv	8
26	4001116	GUARDRAIL NUT RECESSED 5/8-11,Gr2 MGal	8
27	MANMAX	MAN-TENSION INSTALLATION MANUAL	1

APPROVED PLAN FOR CALTRANS USE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LINDSAY TRANSPORTATION SOLUTIONS
180 RIVER RD
RIO VISTA, CA 94571

MAX-TENSION TANGENT TEST LEVEL 3

STEEL POST, 8 INCH COMPOSITE BLOCKOUTS
12' - 6" PANELS, IMPERIAL HARDWARE

DRAWING No._Revision: MT3SIS8C4-RC | SHEET 1 OF 2 | NO SCALE

BORDER LAST REVISED 8/1/2016 | NAME OF FILE: MT3SIS8C4-RC | UNIT 3342 | PROJECT NUMBER & PHASE 00000000001

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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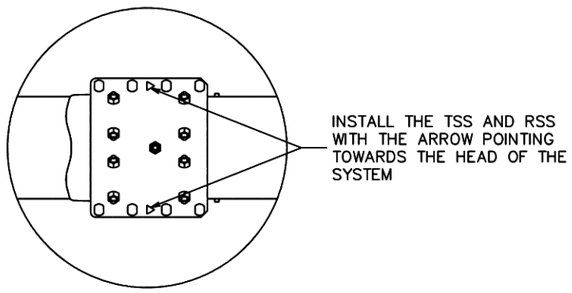
TO ACCOMPANY CONTRACT
PLANS DATED

DATE THIS PLAN APPROVED
8-29-24

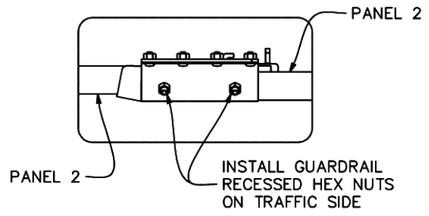
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REGISTERED PROFESSIONAL ENGINEER
GERRIT A. DYKE
No. M33056
Exp. 6-30-25
MECHANICAL
STATE OF CALIFORNIA

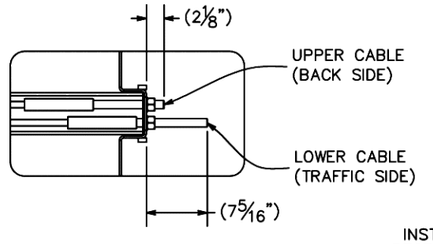
REGISTERED MECHANICAL ENGINEER



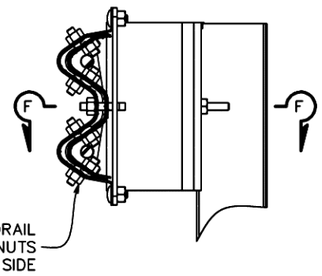
DETAIL 'A'



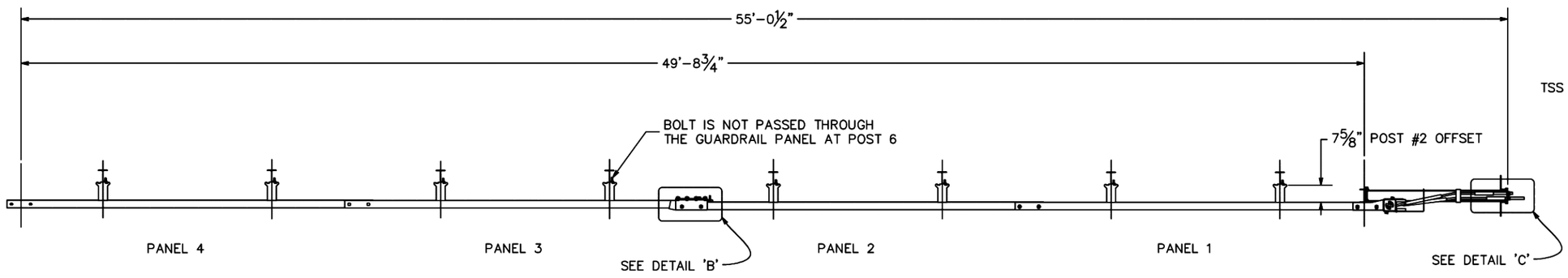
DETAIL 'B'



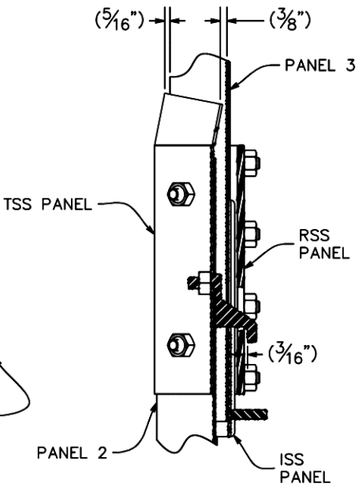
DETAIL 'C'



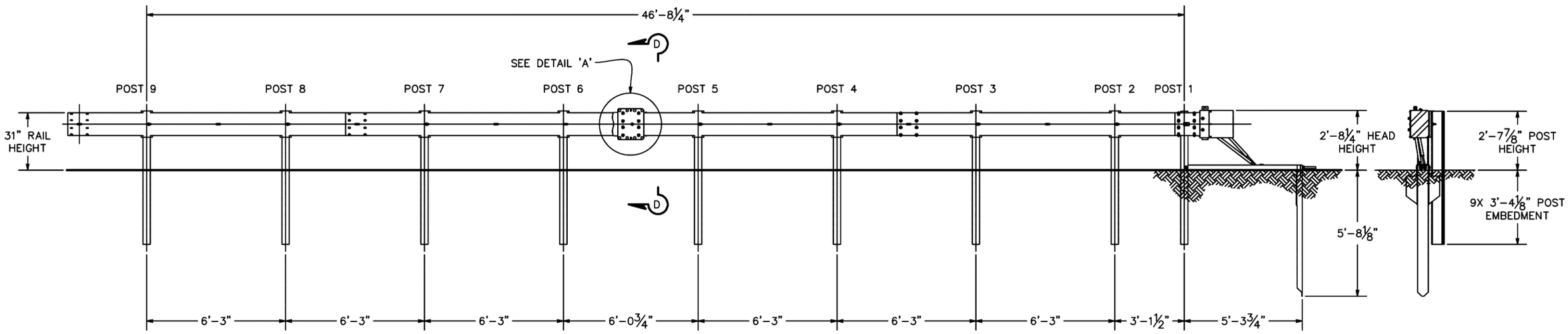
SECTION D–D



PLAN



SECTION F–F



ELEVATION

APPROVED PLAN FOR CALTRANS USE

STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION

Caltrans

LINDSAY TRANSPORTATION SOLUTIONS
180 RIVER RD
RIO VISTA, CA 94571

MAX–TENSION TANGENT TEST LEVEL 3

STEEL POST, 8 INCH COMPOSITE BLOCKOUTS
12' – 6" PANELS, IMPERIAL HARDWARE

DRAWING No._Revision:	MT3SIS8C4–RC	SHEET 2 OF 2	NO SCALE

BORDER LAST REVISED 8/1/2016	NAME OF FILE: MT3SIS8C4–RC	UNIT 3342	PROJECT NUMBER & PHASE	00000000001

TO ACCOMPANY CONTRACT
PLANS DATED

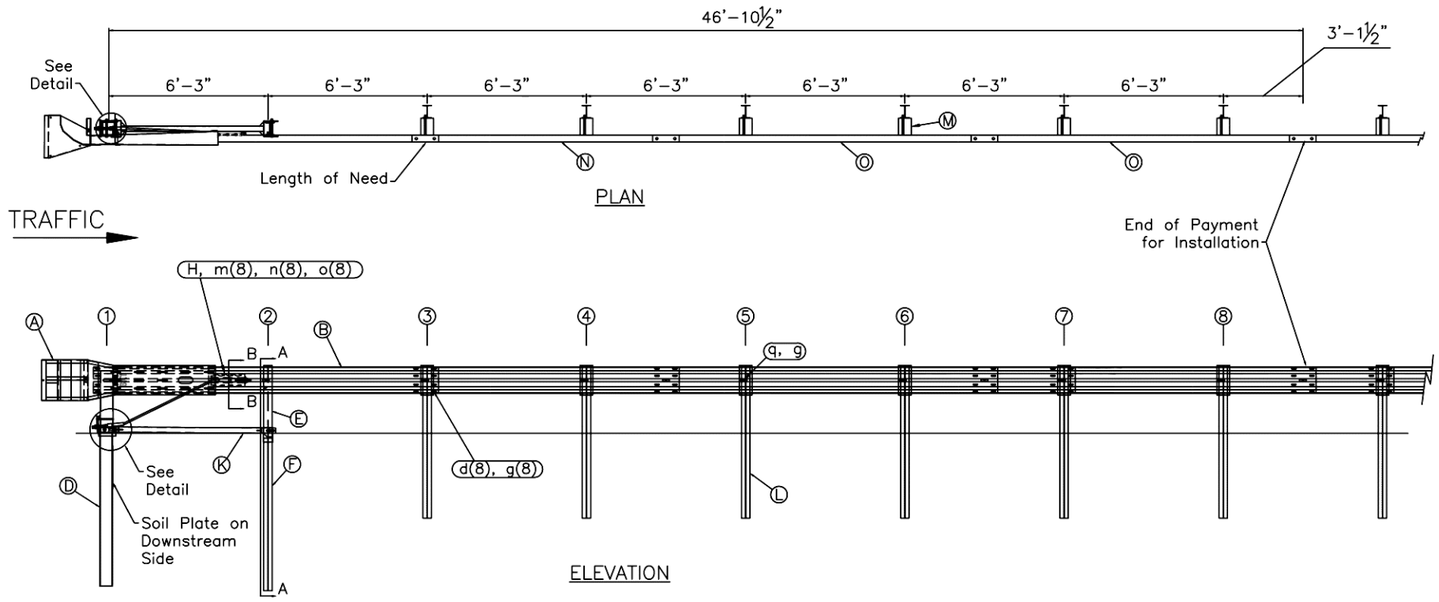
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	102	247

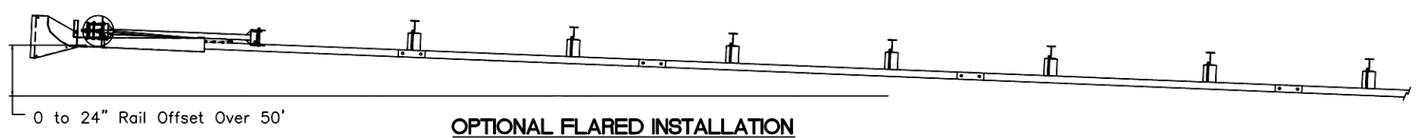
DATE THIS PLAN APPROVED
7-18-24

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.

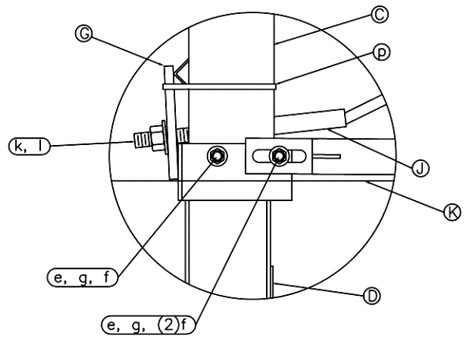
REGISTERED PROFESSIONAL ENGINEER
PAMELA BETH FERGUSON
No. C-56545
Exp. 06-30-25
CIVIL
STATE OF CALIFORNIA

REGISTERED CIVIL ENGINEER

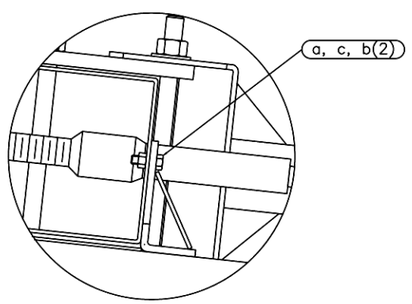




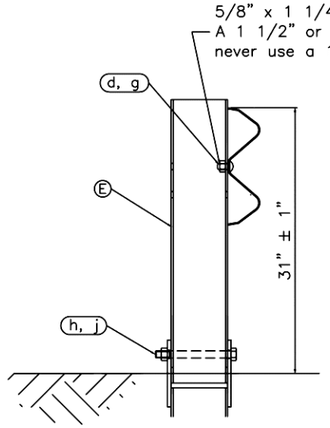
OPTIONAL FLARED INSTALLATION
25:1 Maximum flare rate



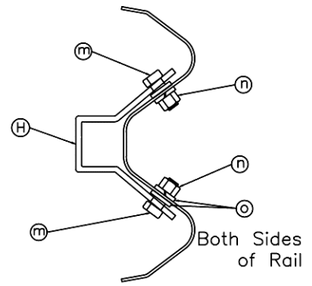
POST No. 1 CONNECTION DETAIL



IMPACT HEAD CONNECTION DETAIL



SECTION A–A
Post No. 2



SECTION B–B
Anchor Bracket

ITEM	QTY	BILL OF MATERIALS	ITEM NO.
A	1	IMPACT HEAD	MS3000
B	1	W-BEAM GUARDRAIL END SECTION, 12 Ga.	SF1303
C	1	FIRST POST TOP (6X6X⅛" Tube)	MTPHP1A
D	1	FIRST POST BOTTOM (6' W6X15)	MTPHP1B
E	1	SECOND POST ASSEMBLY TOP	UHP2A
F	1	SECOND POST ASSEMBLY BOTTOM	HP2B
G	1	BEARING PLATE	E750
H	1	CABLE ANCHOR BOX	S760
J	1	BCT CABLE ANCHOR ASSEMBLY	E770
K	1	STRUT	MS785
L	6	6x9 (6x8.5) STEEL POST	P621
M	6	RECYCLED PLASTIC BLOCK OR EQUIV.	CBSP-14
N	1	W-BEAM MGS RAIL SECTION (9'-4 1/2")	G12025
O	2	W-BEAM MGS RAIL SECTION (12'-6")	G1203A
		HARDWARE (ALL DIMENSIONS IN INCHES)	
a	2	5/16 x 1 HEX BOLT GRD 5	B5160104A
b	4	5/16 WASHER	W0516
c	2	5/16 HEX NUT	N0516
d	25	5/8 Dia. x 1 1/4 SPLICE BOLT (POST #2)	B580122
e	2	5/8 Dia. x 9 HEX BOLT A449	B580904A
f	3	5/8 WASHER	W050
g	33	5/8 Dia. H.G.R NUT	N050
h	1	3/4 Dia. x 8 1/2 HEX BOLT GRD A449	B340854A
j	1	3/4 Dia. HEX NUT	N030
k	2	1 ANCHOR CABLE HEX NUT	N100
l	2	1 ANCHOR CABLE WASHER	W100
m	8	1/2 RSI SHOULDER BOLT W/WASHER	SB12A
n	8	1/2 STRUCTURAL NUT	N012A
o	8	1/2 STRUCTURAL WASHER	W012A
p	1	BEARING PLATE RETAINER TIE	CT-100ST
q	6	5/8" x 10" H.G.R. BOLT	B581002

GENERAL NOTES:
1. All bolts, nuts, cable assemblies, cable anchors and bearing plates shall be galvanized.
2. The lower sections of the Posts 1&2 shall not protrude more than 4 in. above the ground (measured along a 5' cord longitudinal to the system). Site grading may be necessary to meet this requirement.
3. The lower section of the hinged post should not be driven with the upper post attached. If the post is placed in a drilled hole, the backfill material must be satisfactorily compacted to prevent settlement.
4. When competent rock is encountered at any depth, a 12 in. Ø hole, 20in. deep cored into the rock may be used if approved by the engineer for Posts 1 and/or 2. If soil is reached before coring 20 in. into the rock, the post hole shall be drilled to full depth. Granular material will be placed in the bottom of the hole, approximately 2.5 in. deep to provide drainage if needed. The first and/or second post can be field cut to length, placed in the hole and backfilled with suitable backfill. The soil plate may be trimmed if required.
5. The breakaway cable assembly must be taut. A locking device (vice grips or channel lock pliers) should be used to prevent the cable from twisting when tightening nuts.

APPROVED PLAN FOR CALTRANS USE

Caltrans
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

ROAD SYSTEMS, INC.
3616 OLD HOWARD COUNTY AIRPORT
BIG SPRINGS, TX 79720

Midwest Guardrail System Terminal (8" Blocks) Test Level 3

DRAWING No._Revision: MSKT-SP-MGS8 | SHEET 1 OF 1 | NO SCALE

BORDER LAST REVISED 8/1/2016 | NAME OF FILE: MSKT-SP-MGS8-071524 | UNIT 3342 | PROJECT NUMBER & PHASE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	103	247

TO ACCOMPANY CONTRACT
PLANS DATED

DATE THIS PLAN APPROVED
1-7-25

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
JOSE J. OSTDIEK
No. C65334
Exp. 09-30-25
CIVIL
STATE OF CALIFORNIA

REGISTERED CIVIL ENGINEER

APPROVED PLAN FOR CALTRANS USE

MAIN SYSTEM COMPONENTS

	ITEM	PART NUMBER	DESCRIPTION	QTY
	A	SIH1A	SGET IMPACT HEAD	1
	B	126SPZGP	SPECIALIZED GUARDRAIL PANEL(MODIFIED 12'-6" SECTION W-BEAM M-180)	1
	C	GP126	STANDARD GUARDRAIL PANEL (12'-6" SECTION W-BEAM M-180)	3
	D	GP94	MGS CONVERSION GUARDRAIL (9'-4½" SECTION W-BEAM M-180)	1
	E	YP6MOD	YIELDING POST - MODIFIED W6x8.5 GUARDRAIL POST	7
	F	CBO8	COMPOSITE BLOCKOUT 6"x8"x14"	6
*	G	WBO8	WOOD BLOCKOUT 6"x8"x14"	6
	H	STR80	STRUT - 3"x3"x80"x¼" A36 ANGLE	1
	I	FNDT6	FOUNDATION TUBE - 6"x8"x72"x⅜" RECTANGULAR TUBE	1
	J	WBRK50	WOOD BREAKAWAY POST - 5½"x7½"x50"	1
	K	WSBLK14	WOOD STRIKE BLOCK	1
	L	SPLT8	STRIKE PLATE - ¼" A36 BENT PLATE	1
**	M	REPLT17	REINFORCEMENT PANEL - 12 GA. GR55 BENT PLATE	1
	N	GGR17	GUARDRAIL GRABBER - 2½"x2½"x16½" - ¼" A36 SQUARE TUBE	1
	O	BPLT8	BEARING PLATE - 8"x8⅝"x⅝" A36 PLATE	1
	P	PSLV4	PIPE SLEEVE - 4¼" LONG x 2⅜" O.D. x 2⅛" I.D. A36 ROUND TUBE	1
	Q	CBL81	¾" CABLE - 81" LONG ¾" BCT CABLE	1

SMALL HARDWARE

ITEM	PART NUMBER	DESCRIPTION	QTY
a	12GRBLT	12" GUARDRAIL BOLT - ⅝" x 12" 307A HDG	1
b	10GRBLT	10" GUARDRAIL BOLT - ⅝" x 10" 307A HDG	7
c	1GRBLT	1¼" GUARDRAIL SPLICE BOLT - ⅝" x 1¼" 307A HDG	33
d	58FW436	⅝" FLAT WASHER - ⅝" F436 (A325) HDG	3
e	58LW	⅝" LOCK WASHER - HDG	1
f	58HN563	⅝" HEX NUT - ⅝" x 11 A563 HDG	39
g	2BLT	2" STRUT BOLT - ½" x 13 X 2" A325 HDG	2
h	125BLT	1¼" REINFORCEMENT PANEL BOLT- ½" x 13 X 1¼" A325 HDG	6
i	12FWF436	½" FLAT WASHER - ½" F436 (A325) HDG	16
j	12LW	½" LOCK WASHER - HDG	8
k	12HN563	½" HEX NUT - ½" x 13 A563 HDG	8
l	38LS	⅜" HEX LAG SCREW - ⅜" x 3" GR5 HDG	4
m	38FW844	⅜" FLAT WASHER - ⅜" F844 HDG	4
n	1FWF436	1" FLAT WASHER - 1" F436 (A325) HDG	2
o	1HN563	1" HEX NUT - 1" x 8 A563DH HDG	2
p	RFID810F	RFID CHIP RATED MIL-STD-810F (e.g. OMNI-ID EX0750)	1

** NOTE:

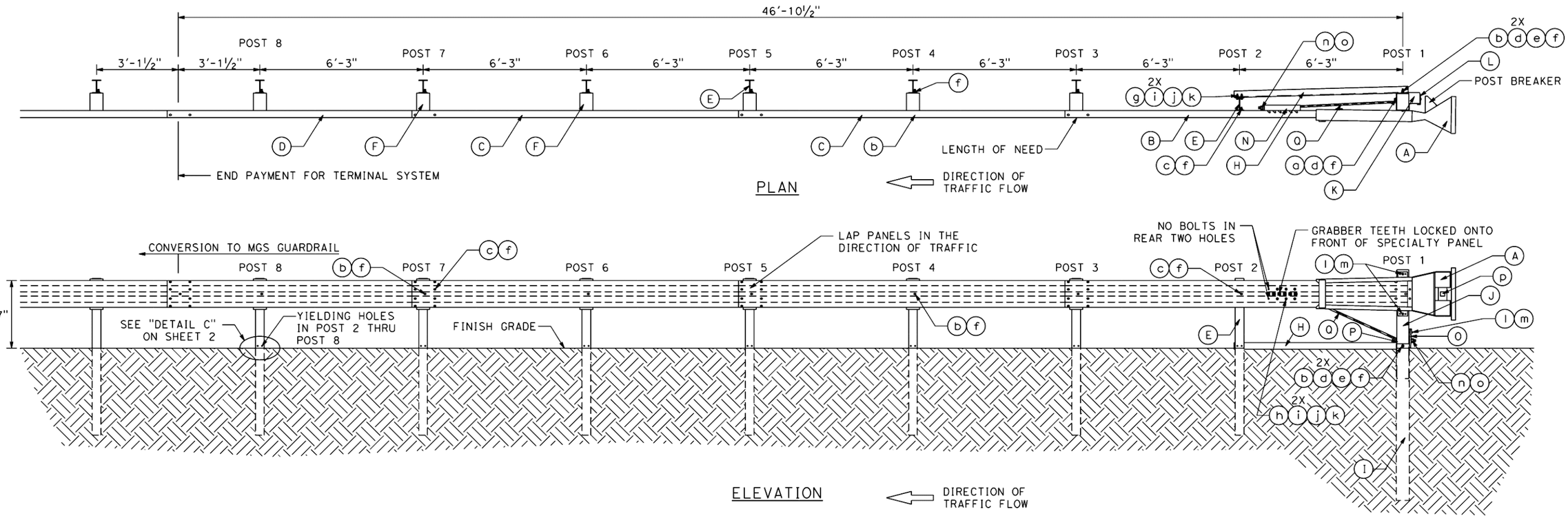
1. (M) is shown on sheet 2.

* ALTERNATIVES NOTES:

1. Composite blockouts (F) may be replaced with wood blockouts (G).

HORIZONTAL ALIGNMENT NOTE:

1. Maximum horizontal flare over first 50 feet is 2 ft.

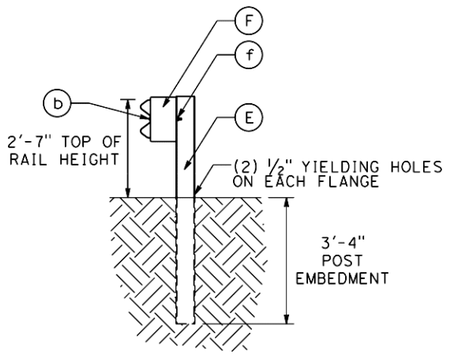


SPIG 14675 INDUSTRIAL PARK Rd BRISTOL, VIRGINIA 24202	**SINGLE GUARDRAIL TERMINAL** STEEL POST, 8" WOOD OR COMPOSITE BLOCKOUTS SGET-MASH-TL-3
DRAWING No._Revision: **SGET-MASH-TL-3-R1**	SHEET 1 OF 2 — NO SCALE

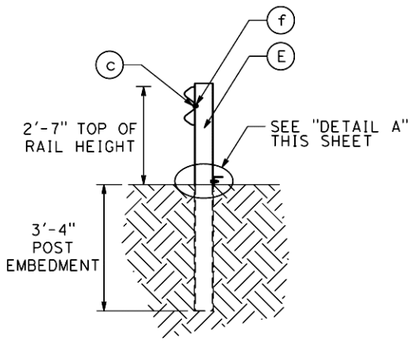
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

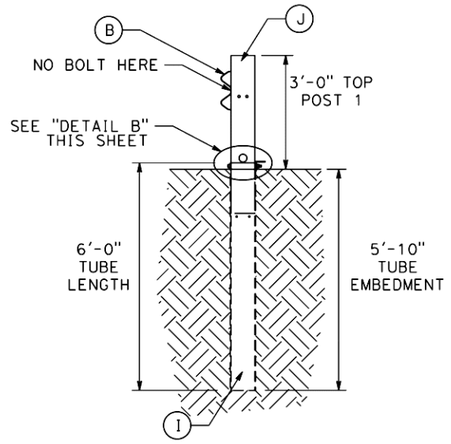
BORDER LAST REVISED 8/1/2016 | NAME OF FILE: SGET-MASH-TL-3-R1_SHEET 1.dgn | UNIT 3342 | PROJECT NUMBER & PHASE 00000000001



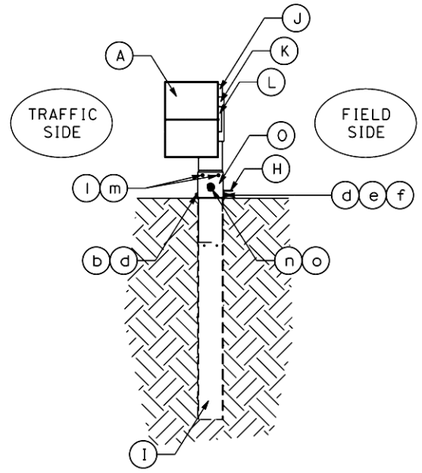
SIDE VIEW - POST 3 THRU POST 8 (Typ)



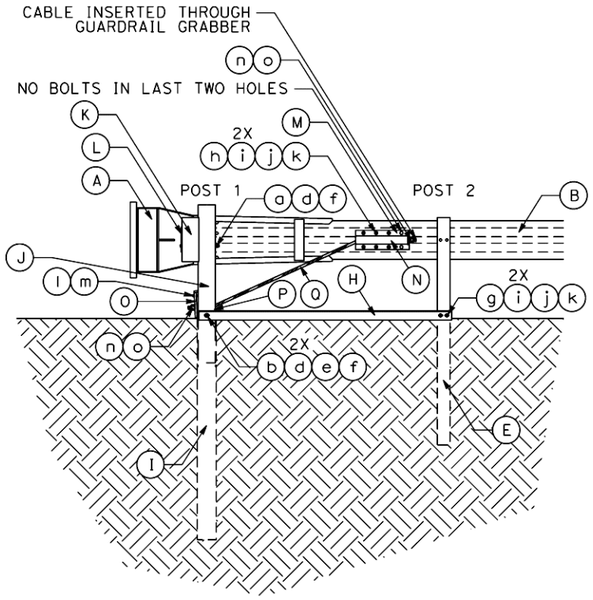
SIDE VIEW - POST 2



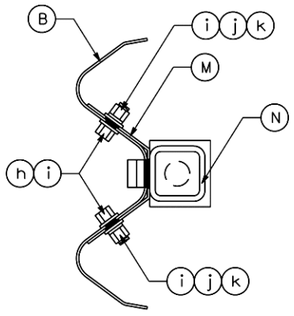
SIDE VIEW - POST 1



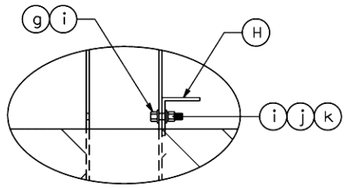
FRONT END ELEVATION - POST 1



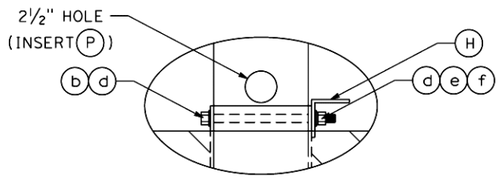
REAR ELEVATION - POST 1 & POST 2



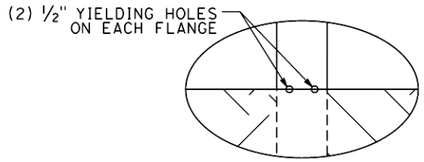
SECTION - REINFORCEMENT PANEL & GUARDRAIL GRABBER



DETAIL A



DETAIL B



DETAIL C

ELEVATION - POST 2 THRU POST 8

TO ACCOMPANY CONTRACT PLANS DATED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	21.5	104	247

DATE THIS PLAN APPROVED

1-7-25

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
JOSE J. OSTDIEK
No. C65334
Exp. 09-30-25
CIVIL
STATE OF CALIFORNIA

REGISTERED CIVIL ENGINEER

APPROVED PLAN FOR CALTRANS USE

GENERAL NOTES:

1. For specific information regarding installation and technical guidance contact: SPIG Industry, Inc., (276) 644-9510, 14675 Industrial Park Rd, Bristol, VA 24202.
2. The first specialized guardrail panel should be centered between the mounting tabs of the SGET impact head such that the top spacing between the top of the first specialized guardrail panel and the top feed channel of the SGET impact head is the same as the bottom spacing between the bottom of the first specialized guardrail panel and the bottom feed channel of the SGET impact head. A plastic spacer is provided with the installation kit to accomplish the centering of first specialized guardrail panel between the mounting tabs of the SGET impact head.
3. The cable should be tensioned such that less than 1 inch of deflection occurs when the cable is stepped on.
4. The threaded end of the cable should not protrude more than 1 inch from the cable tightening nut at the end of the guardrail grabber component on the first specialized guardrail panel.
5. The nominal height of the guardrail beam is 31 inches with a tolerance of +/- one inch.
6. The entire system must be installed in a straight line without any curve. however, the system can be flared up to two feet over 50 feet to further offset the faceplate of the SGET impact head from the shoulder of the road.
7. The system is shown with a first 12'-6" specialized guardrail panel, a second 12'-6" standard guardrail panel, a third 12'-6" standard guardrail panel, and a fourth 9'-4 " MGS-conversion guardrail panel. The first 12'-6" specialized panel must always be used.
8. Posts 2 through 8 must all be yielding posts with the yielding holes at ground level.
9. The redirective capability of the system begins at post 3.
10. Manufacturer applied Type P marking on face of SGET impact head.

SPIG 14675 INDUSTRIAL PARK Rd BRISTOL, VIRGINIA 24202	**SINGLE GUARDRAIL TERMINAL** STEEL POST, 8" WOOD OR COMPOSITE BLOCKOUTS SGET-MASH-TL-3

DRAWING No._Revision: **SGET-MASH-TL-3-R1**	SHEET 2 OF 2	NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

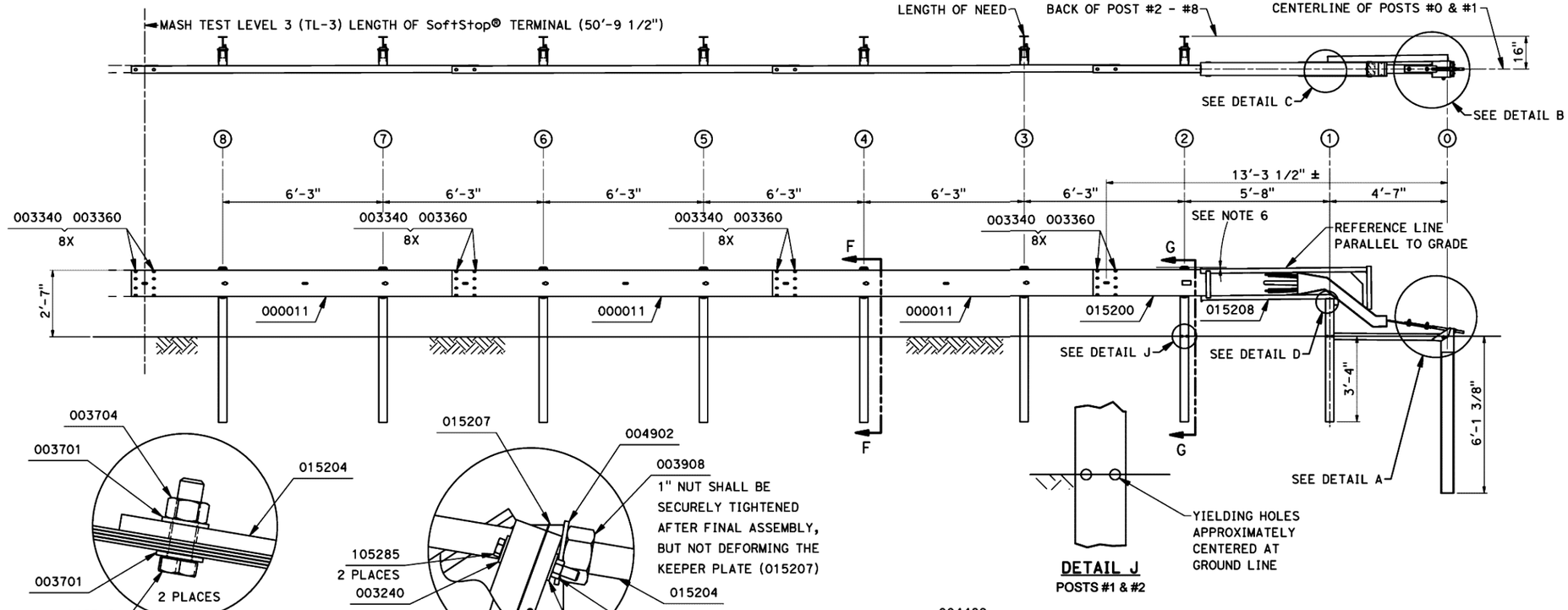
BORDER LAST REVISED 8/1/2016 | NAME OF FILE: SGET-MASH-TL-3-R1_SHEET 2.dgn | UNIT 3342 | PROJECT NUMBER & PHASE 00000000001

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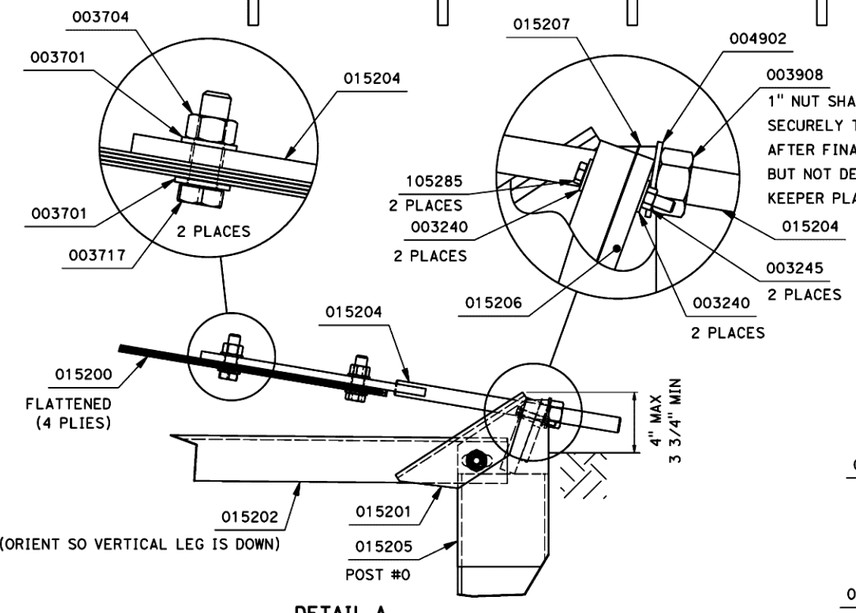
INSTALL SoftStop® PARALLEL TO ROADWAY.

WHEN OFFSET IS REQUIRED BY DESIGN ENGINEER, SEE SoftStop® (8" COMPOSITE BLOCKS) MANUAL FOR REQUIREMENTS.

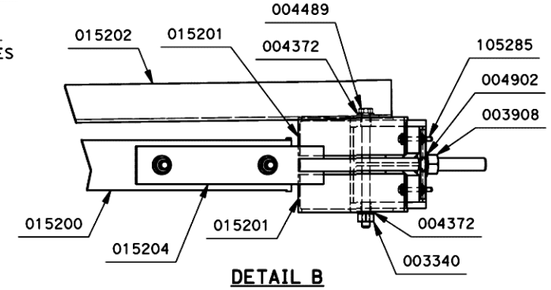
TO ACCOMPANY CONTRACT PLANS DATED



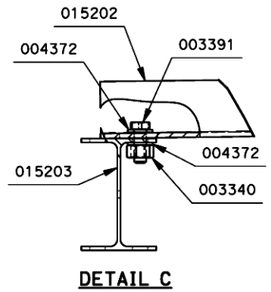
DETAIL J
POSTS #1 & #2



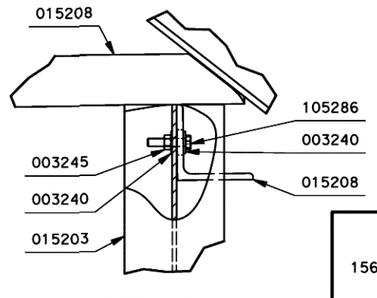
DETAIL A



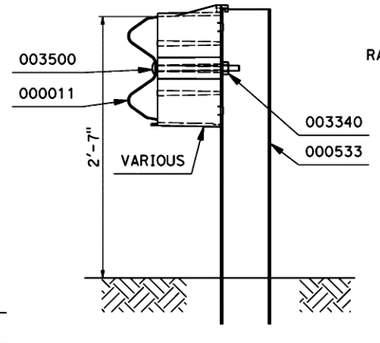
DETAIL B
(AT ANCHOR POST#0)



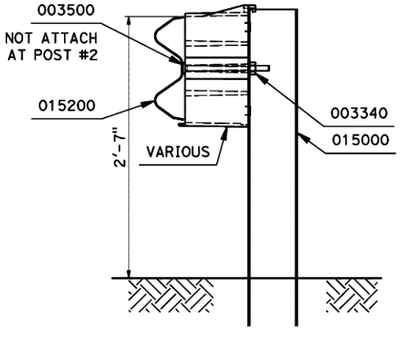
DETAIL C
(POST #1, SHOWN NEAR GROUND)



DETAIL D
(POST #1)



SECTION F-F
(POST #3 - #8)



SECTION G-G
(POST #2)

NOTES:

REFER TO SoftStop® (8" COMPOSITE BLOCKS) ASSEMBLY MANUAL.

PROPER SITE GRADING SHOULD BE ACCOMPLISHED IN ACCORDANCE WITH LOCAL SPECIFYING AGENCY GUIDELINES AND THE AASHTO ROADSIDE DESIGN GUIDE.

DO NOT ATTACH THE SoftStop® DIRECTLY TO A RIGID BARRIER.

UNDER NO CIRCUMSTANCES SHALL THE GUARDRAIL WITHIN THE SoftStop® BE CURVED.

MANUFACTURER SUGGESTS CUSTOMER TO PROVIDE REFLECTORIZATION OF THE TERMINAL.

IT IS ACCEPTABLE TO INSTALL THE SoftStop® IMPACT HEAD PARALLEL TO THE GRADE LINE OR WITH AN UPWARD TILT. SEE SoftStop® ASSEMBLY MANUAL FOR SPECIFIC DETAILS.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Son	101	21.5	105	247

DATE THIS PLAN APPROVED
4-13-23

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REGISTERED PROFESSIONAL ENGINEER
AARON COX
No. M35449
Exp. 06/30/23
MECHANICAL
STATE OF CALIFORNIA

REGISTERED MECHANICAL ENGINEER

PARTS LIST

PART NO	QTY	DESCRIPTION
000011	3	12/12'6/3'1.5/S
000533	6	6'-0" POST / W 6X8.5#
VARIOUS	7	8" COMPOSITE BLOCK
015000	1	6'0 POST/8.5/SYT-POST/7:25
015200	1	SFST-ANCHOR G.RAIL 12'-6"
015202	1	SFST-ANGLE STRUT
015203	1	SFST-POST#1 SYTP
015204	1	SFST-ANCHOR PADDLE
015205	1	SFST-POST#0
015208	1	SFST-IMPACT HEAD
		HARDWARE KIT 034429
003240	6	WASHER,FLAT,5/16 W,TY A,G
003245	3	5/16" HEX NUT A563
003340	41	NUT,HX,5/8,G,RAIL
003360	32	5/8"X1.25" GR BOLT
003391	1	5/8"X1.75" HEX BOLT A325
003500	7	BOLT,RAIL,5/8-11X10
003701	4	3/4" ROUND WASHER F436
003704	2	3/4" HVY HEX NUT A563 DH
003717	2	3/4"X2.5" HEX BOLT A325
003908	1	1" HVY HEX NUT A563 DH
004372	4	WASHER,FLAT,5/8,HARD,TY 1,G
004489	1	5/8"X9" HEX BOLT A325
004902	1	1" ROUND WASHER F436
105285	2	5/16" X 2.5" HEX BOLT GRD 5
105286	1	5/16" X 1.5" HEX BOLT GRD 5
015201	2	SFST-ANCHOR ANGLE
015206	1	SFST-PLATE WASHER
015207	1	SFST-KEEPER PLATE

APPROVED PLAN FOR CALTRANS USE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

Valtir, LLC
15601 DALLAS PARKWAY, SUITE 525
ADDISON, TEXAS 75001

SoftStop® TL-3
MASH TEST LEVEL 3 (TL-3)

DRAWING No._Revision: **SS646CA-RA** | SHEET 1 OF 1 | NO SCALE

BORDER LAST REVISED 8/1/2016 | NAME OF FILE: SOFTSTOP_8IN BLOCK_TL3.tif | UNIT 3342 | PROJECT NUMBER & PHASE

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

LEGEND:
- Indicates Existing Structure
- Indicates Traffic Direction
- Indicates Minimum Vertical Clearance

NOTES:
1. This plan accurate for Edwards Avenue Pedestrian Overcrossing only.
2. For West Approach Structure details not noted, see "STRUCTURE PLAN No. 1" sheet.
3. For Principal Span Structure and East Approach Structure details not noted, see "STRUCTURE PLAN No. 2" sheet.
4. For West Approach Walls, see "EDWARDS AVENUE POC APPROACH WALLS" plans.
5. For East Approach Walls, see "EDWARDS AVENUE POC APPROACH WALLS" plans.
6. For West Touchdown and East Touchdown, see "EDWARDS AVENUE POC APPROACH WALLS" plans.
7. For "TYPICAL SECTION" and "PROFILE GRADE", see "STRUCTURE PLAN No. 1" and "STRUCTURE PLAN No. 2" sheets.
8. For vertical clearances, see "STRUCTURE PLAN No. 1" and "STRUCTURE PLAN No. 2" sheet.
9. For deck drain locations, see "STRUCTURE PLAN No. 1" and "STRUCTURE PLAN No. 2" sheets. For deck drain details, see "DECK DRAINAGE DETAILS No. 1" and "DECK DRAINAGE DETAILS No. 2" sheet.
10. For "INDEX TO BRIDGE PLANS", see "INDEX TO BRIDGE PLANS" sheet.
11. For "GENERAL NOTES", see "GENERAL NOTES" sheet.
12. For "PILE DATA TABLE", see "FOUNDATION PLAN" sheet.
13. For limits of guard, handrail, and fencing, see "GUARD AND FENCING LAYOUT" sheets.

(1) Cast-in-Place Reinforced Concrete Slab with Polyester Concrete Overlay
(2) Steel Box with Polyester Concrete Overlay (Zinc)
(3) Steel Pylon
(4) Forestay Cables
(5) Backstay Cables
(6) Guard, see "GUARD DETAILS" sheets.
(7) Fencing, see "GUARD WITH FENCING DETAILS" sheets.
(8) Abutment Cap
(9) Architectural Treatment, see "Arch SURFACE TREATMENTS" sheets.
(10) Retaining Wall/Barrier, see "EDWARDS AVENUE POC APPROACH WALLS" plans
(11) Handrail, see "GUARD WITH HANDRAILS DETAILS" sheets.
(12) Paint: "EDWARDS AVENUE POC BRIDGE No. 20-0307" Year Constructed
See "Arch SURFACE TREATMENTS" sheets.
(13) Paint Bent Number, see "Arch SURFACE TREATMENTS" sheets.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	106	247

Daniel Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

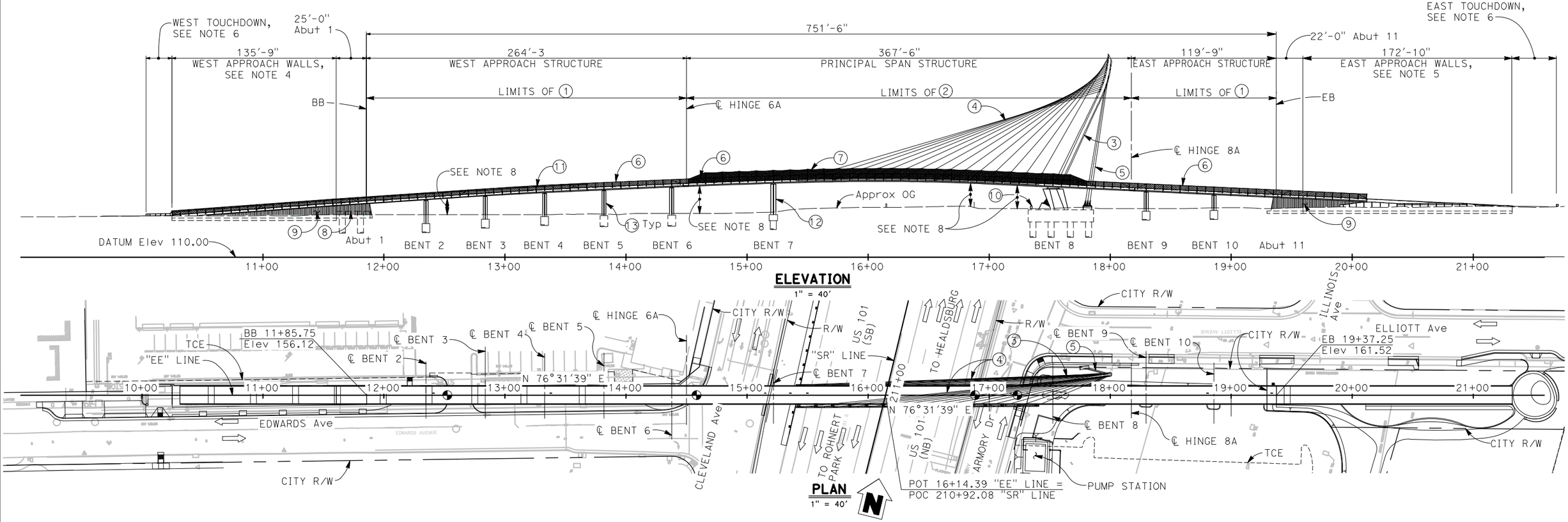
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

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.

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126



ELEVATION
1" = 40'

PLAN
1" = 40'

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED		BY	CHECKED
DESIGN	D. Rosellini	D. Devlin	SEISMIC ANALYSIS	D. Rosellini	S. Sumpter
DETAILS	D. Rosellini	D. Devlin	LAYOUT	A. Notaro	S. Sumpter
QUANTITIES	A. Notaro	F. Franco	SPECIFICATIONS	D. Rosellini	PLANS AND SPECS COMPARED D. Devlin

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
GENERAL PLAN

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REVISION 2/8/2022)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 4:50pm
FILE => 2018057SRB_S1.dwg USERNAME => SMH
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES			
6-10-22		2-24-25	5-2-25

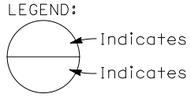
SHEET	OF
1	117

2018057SRB_S1)

INDEX TO BRIDGE PLANS

SHEET	TITLE
1	GENERAL PLAN
2	INDEX TO BRIDGE PLANS
3	GENERAL NOTES
4	STRUCTURE PLAN No. 1
5	STRUCTURE PLAN No. 2
6	DECK CONTOURS
7	FOUNDATION PLAN
8	CIDH PILE DETAILS No. 1
9	CIDH PILE DETAILS No. 2
10	ABUTMENT 1 LAYOUT
11	ABUTMENT 1 DETAILS No. 1
12	ABUTMENT 1 DETAILS No. 2
13	ABUTMENT 1 DETAILS No. 3
14	ABUTMENT 11 LAYOUT
15	ABUTMENT 11 DETAILS No. 1
16	ABUTMENT 11 DETAILS No. 2
17	BENT 2-3 LAYOUT
18	BENT 4-6 & 9-10 LAYOUT
19	BENT 7 LAYOUT
20	BENT DETAILS No. 1
21	BENT 8 LAYOUT
22	BENT 8 DETAILS No. 1
23	BENT 8 DETAILS No. 2
24	BENT 8 DETAILS No. 3
25	PYLON PEDESTAL DETAILS
26	BACKSTAY PEDESTAL DETAILS
27	PYLON LAYOUT
28	PYLON DETAILS No. 1
29	PYLON DETAILS No. 2
30	PYLON DETAILS No. 3
31	PYLON DETAILS No. 4
32	PYLON DETAILS No. 5
33	PYLON DETAILS No. 6
34	PYLON DETAILS No. 7
35	APPROACH STRUCTURE TYPICAL SECTION
36	WEST APPROACH SLAB LAYOUT
37	EAST APPROACH SLAB LAYOUT
38	SLAB REINFORCEMENT PLAN No. 1
39	SLAB REINFORCEMENT PLAN No. 2
40	SLAB REINFORCEMENT PLAN No. 3
41	SLAB DETAILS No. 1
42	SLAB DETAILS No. 2
43	PRINCIPAL SPAN TYPICAL SECTION
44	STEEL BOX FRAMING PLAN No. 1
45	STEEL BOX FRAMING PLAN No. 2
46	STEEL BOX DETAILS No. 1
47	STEEL BOX DETAILS No. 2
48	STEEL BOX DETAILS No. 3
49	STEEL BOX DETAILS No. 4
50	STEEL BOX DETAILS No. 5
51	STEEL MEMBER DESIGNATION No. 1
52	STEEL MEMBER DESIGNATION No. 2
53	COLUMN/BOX CONNECTION DETAILS No. 1
54	COLUMN/BOX CONNECTION DETAILS No. 2
55	COLUMN/BOX CONNECTION DETAILS No. 3
56	COLUMN/BOX CONNECTION DETAILS No. 4
57	HINGE LAYOUT
58	HINGE DETAILS No. 1
59	HINGE DETAILS No. 2
60	HINGE DETAILS No. 3
61	HINGE DETAILS No. 4
62	HINGE DETAILS No. 5
63	STAY CABLE LAYOUT
64	BACKSTAY ANCHOR ASSEMBLY DETAILS
65	STAY CABLE ASSEMBLY No. 1
66	STAY CABLE ASSEMBLY No. 2
67	STAY CABLE DATA
68	STAY CABLE SPACER DETAILS
69	TUNED MASS DAMPER DETAILS No. 1
70	TUNED MASS DAMPER DETAILS No. 2
71	TUNED MASS DAMPER DETAILS No. 3
72	DECK DRAINAGE DETAILS No. 1
73	DECK DRAINAGE DETAILS No. 2
74	JOINT SEAL DETAILS
75	STANCHION DETAILS No. 1
76	STANCHION DETAILS No. 2
77	STAY CABLE FENCING DETAILS
78	BRIDGE ERECTION SEQUENCE No. 1
79	BRIDGE ERECTION SEQUENCE No. 2
80	BRIDGE ERECTION SEQUENCE No. 3
81	PTFE SPHERICAL BEARING DETAILS
82	CABLE RESTRAINER HARDWARE DETAILS
83	GUARD AND FENCING LAYOUT No. 1
84	GUARD AND FENCING LAYOUT No. 2
85	GUARD AND FENCING LAYOUT No. 3
86	GUARD DETAILS No. 1
87	GUARD DETAILS No. 2
88	GUARD DETAILS No. 3
89	GUARD DETAILS No. 4
90	GUARD DETAILS No. 5
91	GUARD DETAILS No. 6
92	GUARD WITH HANDRAIL DETAILS No. 1
93	GUARD WITH HANDRAIL DETAILS No. 2
94	GUARD WITH FENCING DETAILS No. 1
95	GUARD WITH FENCING DETAILS No. 2
96	GUARD WITH FENCING DETAILS No. 3
97	GUARD WITH FENCING DETAILS No. 4
98	GUARD WITH FENCING DETAILS No. 5
99	STANCHION GEOMETRICS
100	Arch SURFACE TREAMENTS No. 1
101	Arch SURFACE TREAMENTS No. 2
102	Arch SURFACE TREAMENTS No. 3
103	Arch TMD VENT DETAILS
104	Arch PYLON DETAILS No. 1
105	Arch PYLON DETAILS No. 2
106	Arch PYLON DETAILS No. 3
107	Arch PYLON DETAILS No. 4
108	Arch HINGE DETAILS No. 1
109	Arch HINGE DETAILS No. 2
110	Arch HINGE DETAILS No. 3
111	Arch RESTRAINER BLOCKOUT DETAILS
112	POLYESTER Conc OVERLAY DETAILS
113	STEEL DECK MOCK-UP
114	TEST BORING LAYOUT
115	LOG OF TEST BORINGS 1 OF 3
116	LOG OF TEST BORINGS 2 OF 3
117	LOG OF TEST BORINGS 3 OF 3

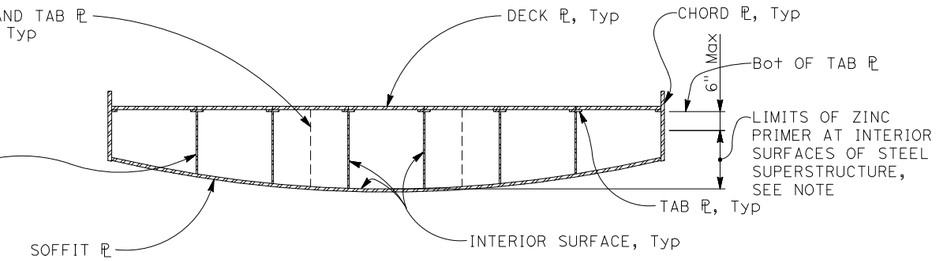
LEGEND:



ABBREVIATIONS

Arch	Architectural
ASTM	ASTM International
BS	Bottom of Soffit
EF	Each Face
Eff	Effective
EQ	Equal
GB	Grade Break
FCM	Fracture Critical Member
FCP	Fracture Control Plan
PTFE	Polytetrafluroethylene
SS	Stainless Steel
TC	Top of Curb
TMD	Tuned Mass Damper
WP	Work Point

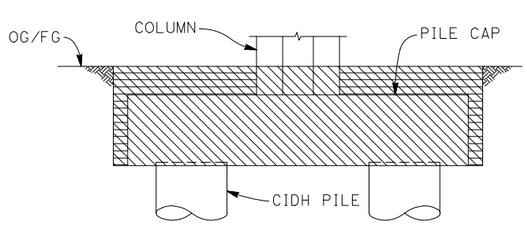
For Additional Abbreviations, see A3A – / A3B – / A3C –



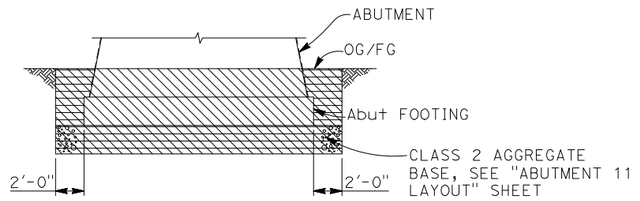
LIMITS OF INTERIOR SURFACE COATINGS AT STEEL SUPERSTRUCTURE

NO SCALE

NOTE:
Apply zinc primer at interior surfaces of all internal steel superstructure components, including diaphragm plates and framing adjacent to HSS outriggers, within limits shown. Zinc primer must be applied on entire faying surfaces of bolted connections. Intermediate and finish coats are not required at these locations.



BENTS 7 & 8



ABUTMENT 11

STRUCTURE EXCAVATION (TYPE D)
STRUCTURE BACKFILL

NOTE:
For limits of payment not shown, see A62C –

LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL

NO SCALE

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	107	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp. 3/31/26 CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

Rakesh Dev
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
INDEX TO BRIDGE PLANS

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 4:50pm
FILE => 2018057SRB_S2.dwg USERNAME => SMH
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G3340

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES			
6-10-22		2-21-25	10-4-24

SHEET 2 OF 117

2018057 (2018057SRB_S2)

GENERAL NOTES
LOAD & RESISTANCE FACTOR DESIGN

DESIGN: AASHTO LRFD Bridge Design Specifications, 2017 Edition and California Amendments, preface dated April 2019 with updates dated June 2021.

LRFD Guide Specifications for the Design of Pedestrian Bridges dated December 2009, with 2015 Interim Revisions.

Standard Plans and Specifications, 2024 edition with Revised Standard Plans, dated April 2025.

Structural Technical Policies as of April 2025.

Project Specific Design Criteria, dated October 4, 2024.

Grade 80 bar reinforcing:
Grade 75 limitations extend to Grade 80.
Nonprestressed flexural concrete members must be tension-controlled.

SEISMIC DESIGN: Caltrans Seismic Design Criteria (SDC) Version 2.0 dated April 2019, supplemented by the Caltrans Seismic Design Specifications for Steel Bridges, Second Edition.

DEAD LOAD: 160 pcf Normal Weight Reinforced Concrete
490 pcf Structural Steel
150 pcf Polyester Concrete Overlay

LIVE LOAD: 90 psf pedestrian load and H10 maintenance vehicle

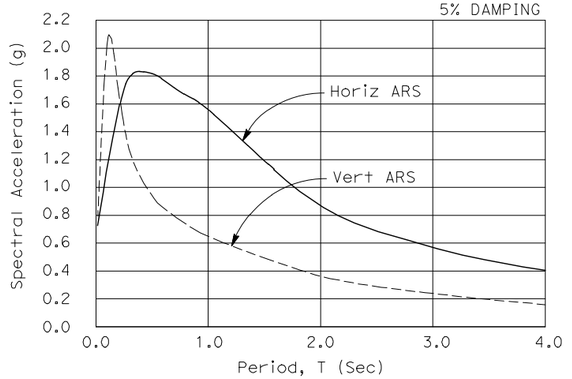
SEISMIC LOAD: Soil Profile V_{S30} = 250 m/s
Moment Magnitude: Mmax = 6.99
Peak Ground Acceleration = 0.73g

REINFORCED CONCRETE: ASTM A706
fy = 80 ksi unless otherwise noted

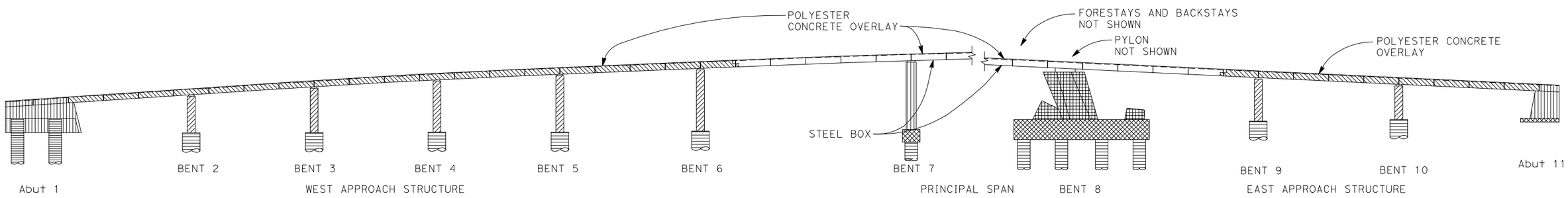
f'c = 3.6 ksi (except as shown on "CONCRETE STRENGTH AND TYPE LIMITS" detail)

n = 8

STRUCTURAL STEEL:	Plates & Shapes, Unless Otherwise Noted :	Fy = 50 ksi ASTM A709, Grade 50W
	Steel HSS:	Fy = 50 ksi ASTM A1085
	HS Bolts:	Fu = 120 ksi ASTM F3125, Grade A325, Type 3
	Anchor Bolts:	Fu = 75-95 ksi ASTM F1554, Grade 55
	HS Nonheaded Anchor Bolts:	Fu = 125-150 ksi ASTM F1554, Grade 105
	HS Threaded Steel Rods:	Fu = 150 ksi ASTM A722
	Nuts:	ASTM A563, Grade C3 or DH3
	Washers:	ASTM F436, Type 3
	Steel Pipe:	Fy = 35 ksi ASTM A53, Grade B
	Cable Type Restrainers: 6x19 Wire Stand Core or Independent Wire Rope Core Federal Specification: RR-W-410 Minimum Breaking Strength: 23 Tons	
MISCELLANEOUS METAL:	Plates, Shapes, & Bars:	Fy = 50 ksi ASTM A572, Grade 50
GUARD AND FENCING:	Stainless Steel Plates, Bars, and Pipe:	Fy = 30 ksi ASTM A240, Type 304
	Stainless Steel Bolts:	Fu = 85 ksi ASTM F593, Type 18-8
	Stainless Steel Nuts:	ASTM F594, Type 18-8
	Fencing and Guard Infill Cables:	Stainless Steel Wire Rope, Type 316
	Fencing Infill Connectors:	Fy = 50 ksi ASTM A572, Grade 50
STAY CABLE ASSEMBLIES AND SPACERS:		
	Forestay and Backstay Cables:	ASTM A586, GRADE 1 Zinc-Coating Class A Throughout
	Sockets and Castings:	ASTM A148, Grade 105-85
	Threaded Rods:	Fu = 115 ksi ASTM A193 Grade B7
	Plates:	Fy = 50 ksi ASTM A572 Grade 50
	Pins:	Fy = 50 ksi ASTM A668 Class F
	HS Bolts:	ASTM F3125, Grade A325, Type 1



ARS DESIGN CURVE
NO SCALE



STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER) (f'c = 6.0 ksi)
STRUCTURAL CONCRETE, BRIDGE (f'c = 4.0 ksi)
STRUCTURAL CONCRETE, BRIDGE (f'c = 3.6 ksi)
STRUCTURAL CONCRETE, BRIDGE (f'c = 5.0 ksi)
CIDH PILE CONCRETE (f'c = 4.0 ksi)
STRUCTURAL CONCRETE, BRIDGE FOOTING (f'c = 4.0 ksi)

CONCRETE STRENGTH AND TYPE LIMITS
NO SCALE

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	108	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
GENERAL NOTES

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 4:50pm
FILE => 2018057SRB_S3.dwg USERNAME => SMH
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PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

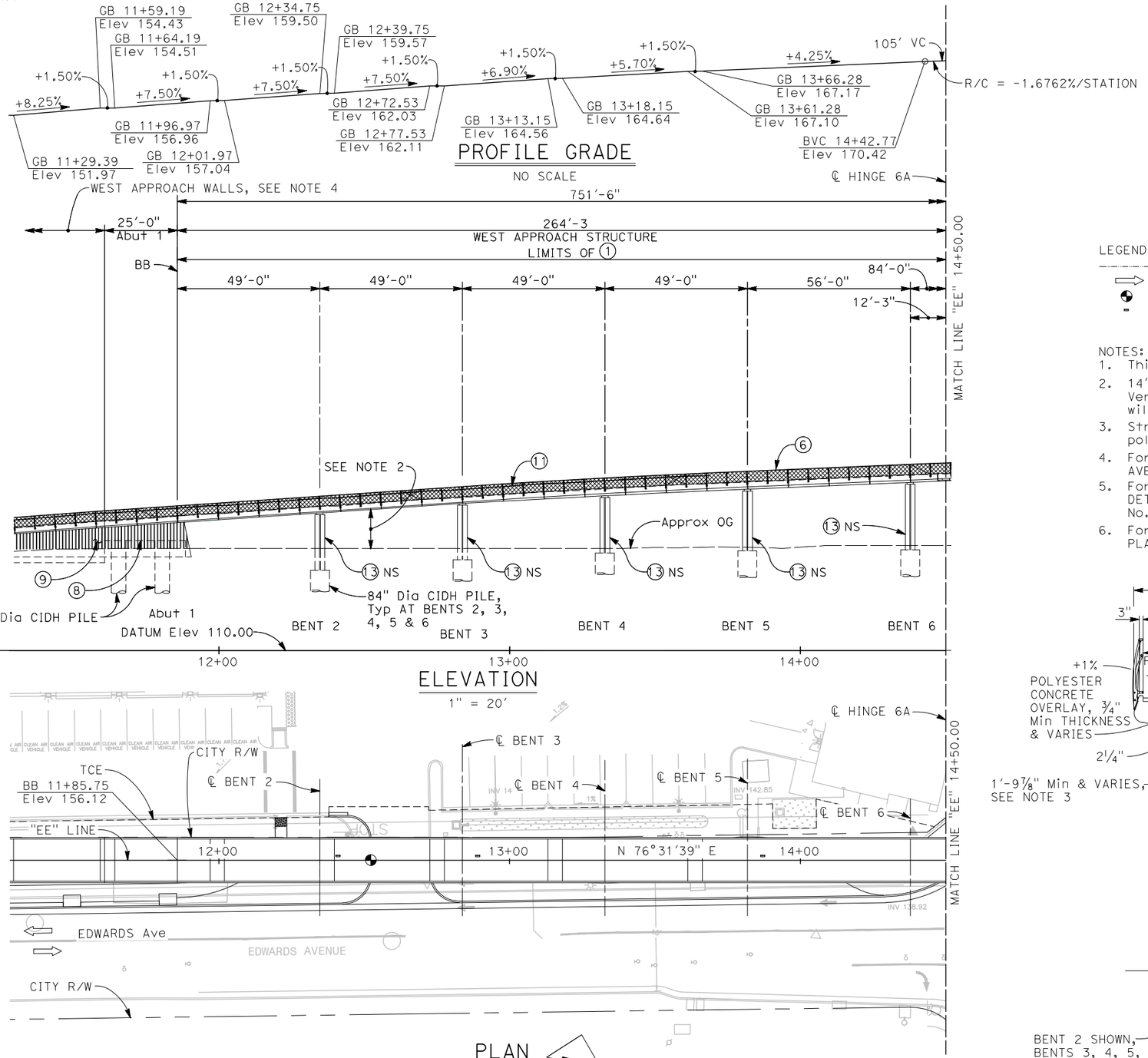
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6-10-22		2-21-25	5-2-25

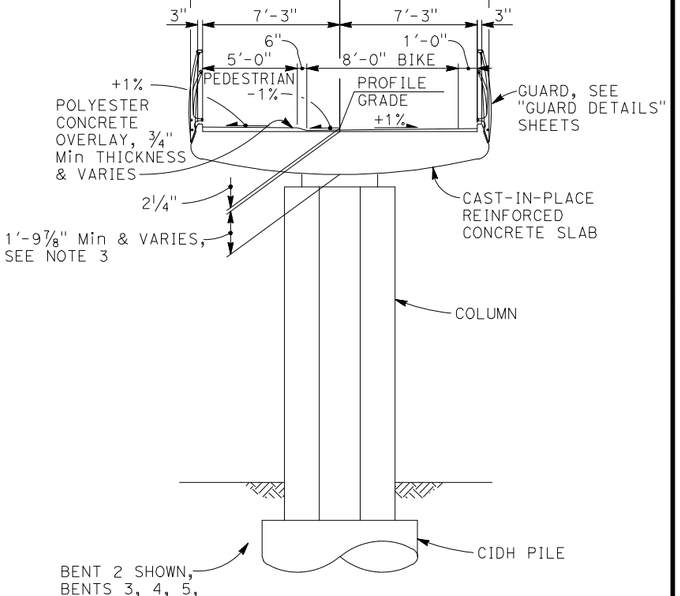
SHEET	OF
3	117

2018057

(2018057SRB_S3)

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





TYPICAL SECTION
¼" = 1'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	109	247

Daniel C Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER
DANIEL S ROSELLINI
No. C79105
Exp. 3/31/26
CIVIL
STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

LEGEND:
- Indicates Existing Structure
- Indicates Traffic Direction
- Indicates Minimum Vertical Clearance
- Indicates Deck Drain, see "DECK DRAINAGE DETAILS" sheets

NOTES:
1. This plan accurate for Edwards Avenue POC only.
2. 14'-1"± Min vertical clearance at driveway. Vertical clearance available for vehicles will be lower depending on axle spacing.
3. Structure depth shown does not include polyester concrete overlay thickness.
4. For West Approach Walls, see "EDWARDS AVENUE POC APPROACH WALLS" plans.
5. For deck drain details, see "DECK DRAINAGE DETAILS No. 1" and "DECK DRAINAGE DETAILS No. 2" sheet.
6. For additional notes and callouts, see "GENERAL PLAN" sheet.

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Robert Dos
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
STRUCTURE PLAN No. 1

(2018057SRB_S4)

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 4:51pm
FILE => 2018057SRB_S4.dwg USERNAME => SMH
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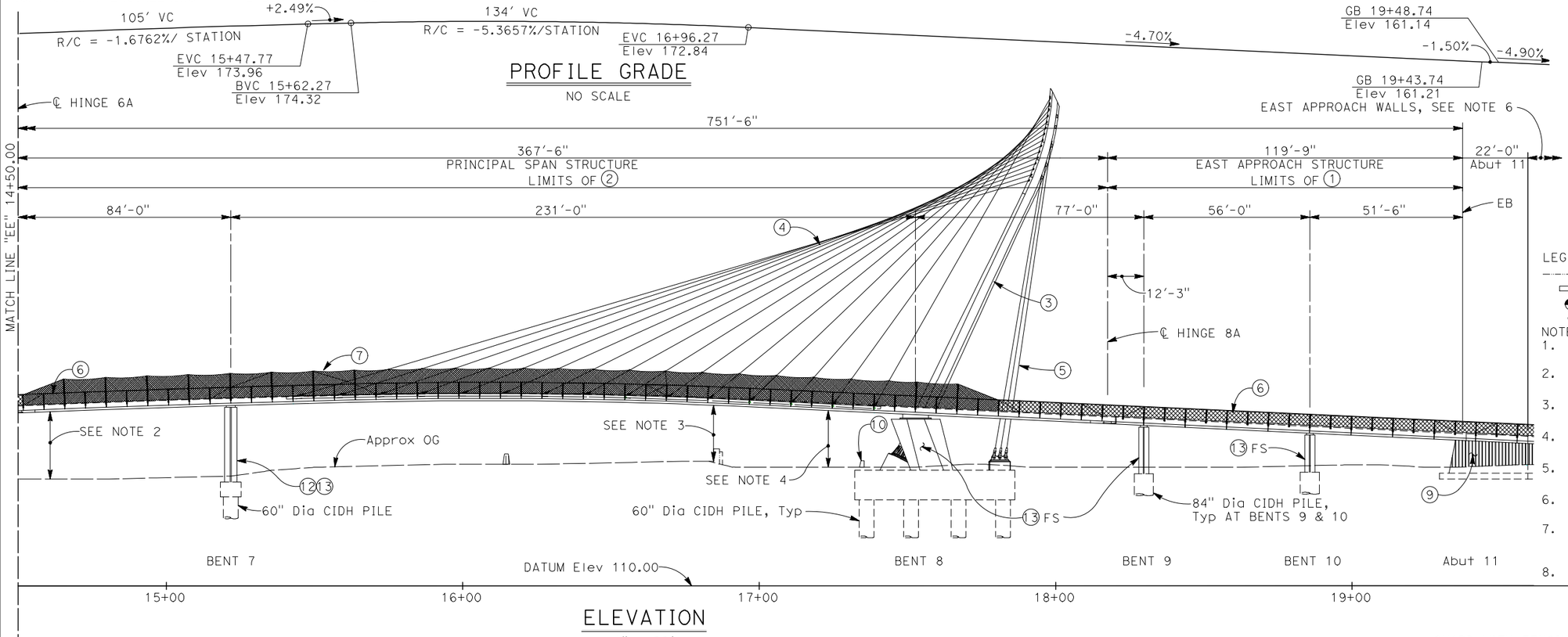
PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
6-10-22		2-21-25	5-2-25	4	117

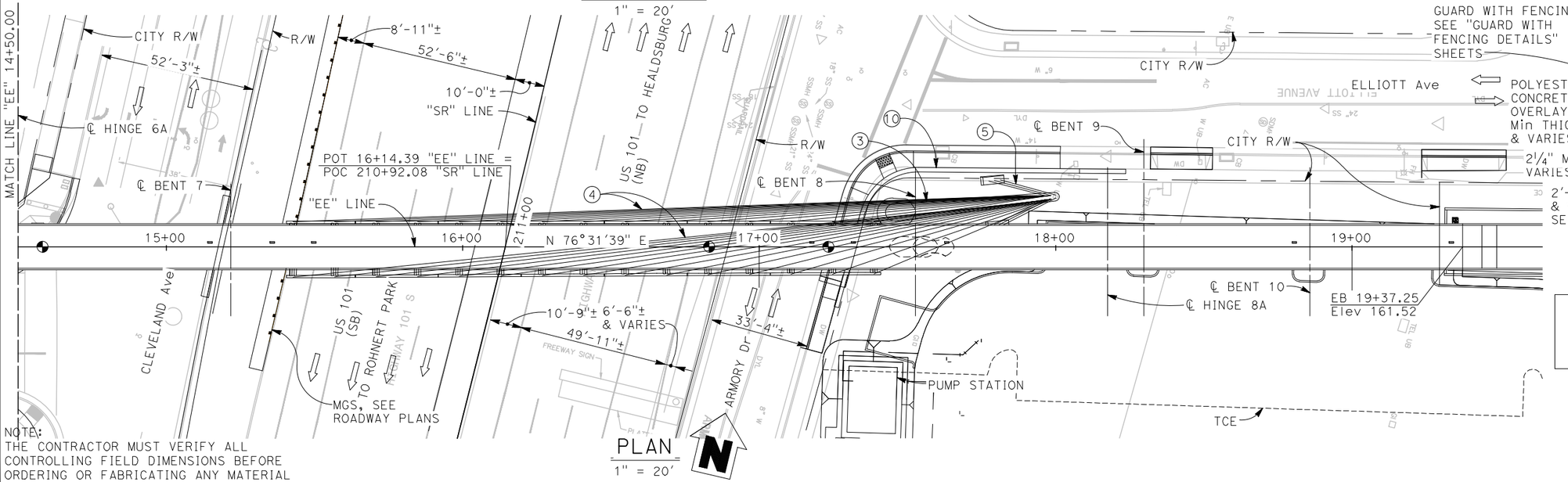
2018057

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



ELEVATION

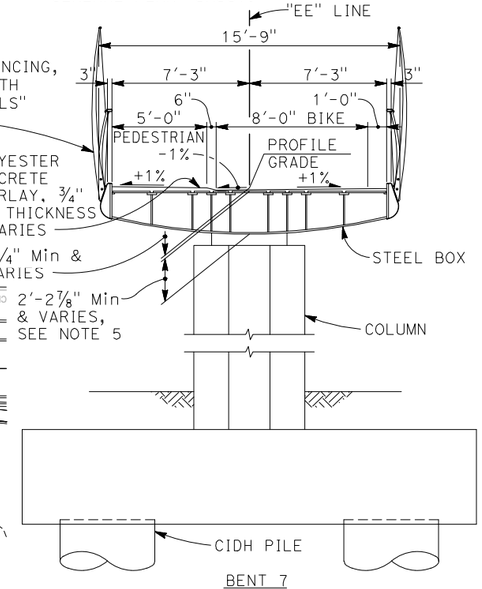
1" = 20'



PLAN

1" = 20'

NOTE:
THE CONTRACTOR MUST VERIFY ALL
CONTROLLING FIELD DIMENSIONS BEFORE
ORDERING OR FABRICATING ANY MATERIAL



BENT 7

TYPICAL SECTION

¼" = 1'-0"

LEGEND:
- Indicates Existing Structure
- Indicates Traffic Direction
- Indicates Minimum Vertical Clearance
- Indicates Deck Drain

NOTES:
1. This plan accurate for Edwards Avenue POC only.
2. 22'-10⅜"± Min vertical clearance at roadway. 17'-0" Min vertical clearance required.
3. 18'-9"± Min vertical clearance at US101. 18'-6" Min vertical clearance required.
4. 19'-6"± Min vertical clearance at roadway. 17'-0" Min vertical clearance required.
5. Structure depth shown does not include polyester concrete overlay thickness.
6. For East Approach Walls, see "EDWARDS AVENUE POC APPROACH WALLS" plans.
7. For deck drain details, see "DECK DRAINAGE DETAILS No. 1" and "DECK DRAINAGE DETAILS No. 2" sheet.
8. For additional notes and callouts, see "GENERAL PLAN" sheet.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	110	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
STRUCTURE PLAN No. 2

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 4:51pm
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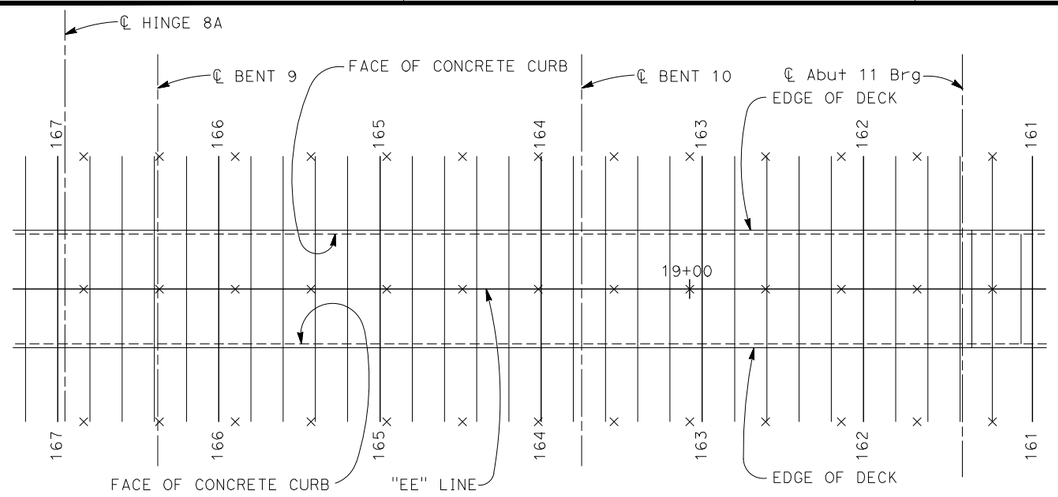
PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES			
6-10-22		2-21-25	10-4-24

SHEET	OF
5	117

(2018057SRB_S5)



EAST APPROACH STRUCTURE

PLAN

1" = 10'

NOTES:
1. Contours indicate top of deck elevation, excluding polyester concrete overlay.
2. × Indicates 10 foot intervals measured along "EE" Line.
3. Contour interval = 0.2'
4. Contours do not include camber or falsework settlement.
5. Contours do not include concrete curb.
6. For camber at principal span structure, see "STEEL BOX FRAMING PLAN" sheets.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	111	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER DATE

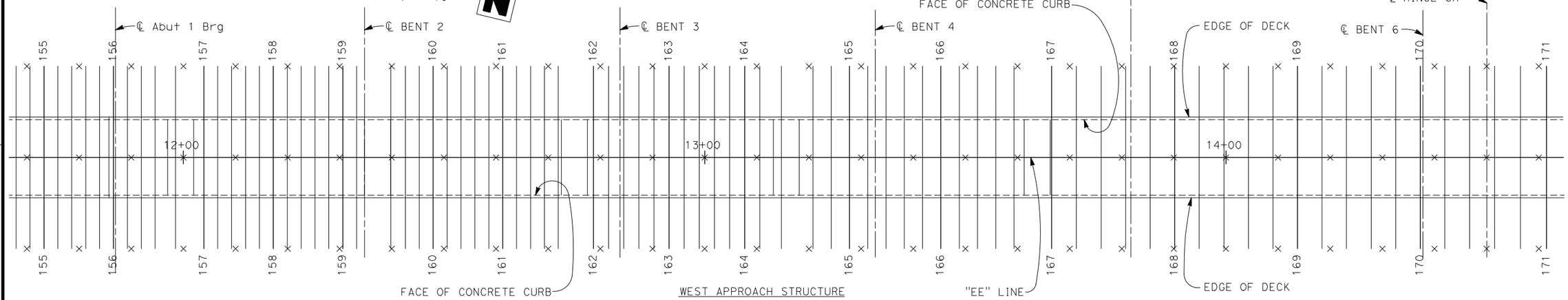
REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

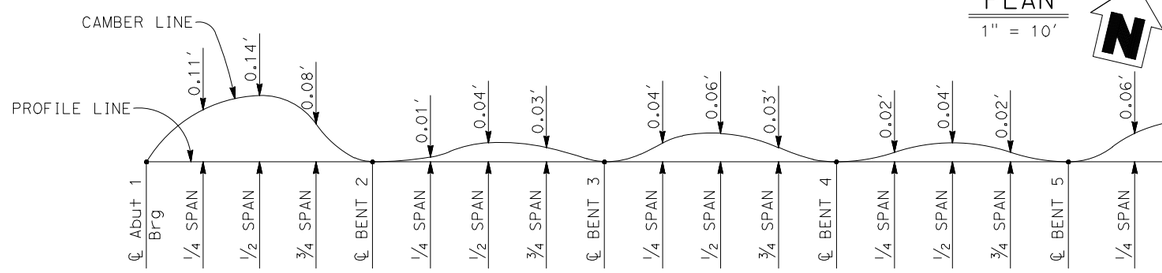
BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126



WEST APPROACH STRUCTURE

PLAN

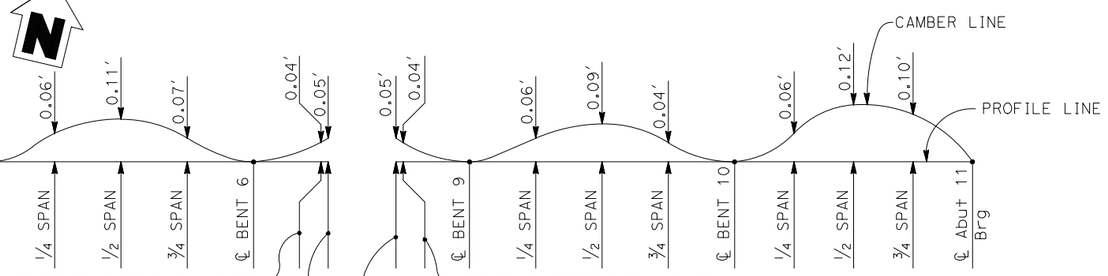
1" = 10'



NOTE:
Camber does not include allowance for falsework settlement.

CAMBER DIAGRAM-WEST APPROACH

NO SCALE



NOTE:
Camber does not include allowance for falsework settlement.

CAMBER DIAGRAM-EAST APPROACH

NO SCALE

Daniel S. Rosellini
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
DECK CONTOURS

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

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FILE => @REQUEST
TIME PLOTTED => @TIME
USERNAME => @USER
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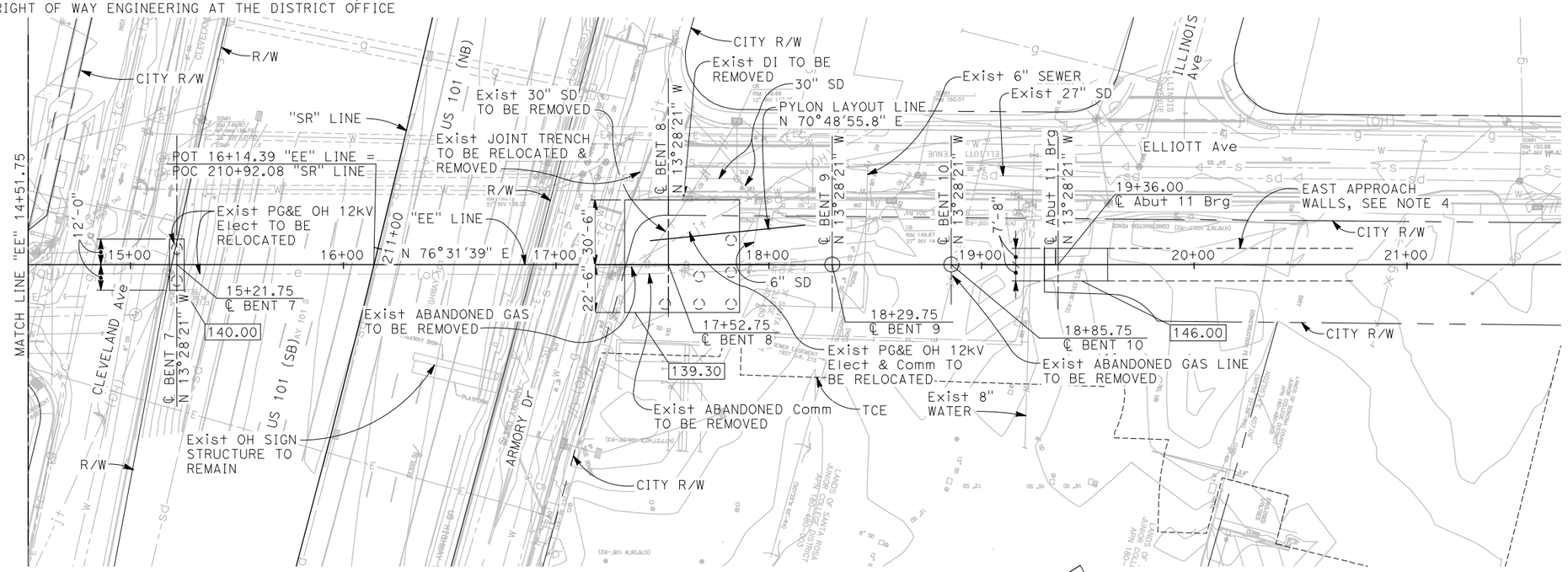
PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
6-10-22	1-10-23	6-28-24	10-4-24	6	117

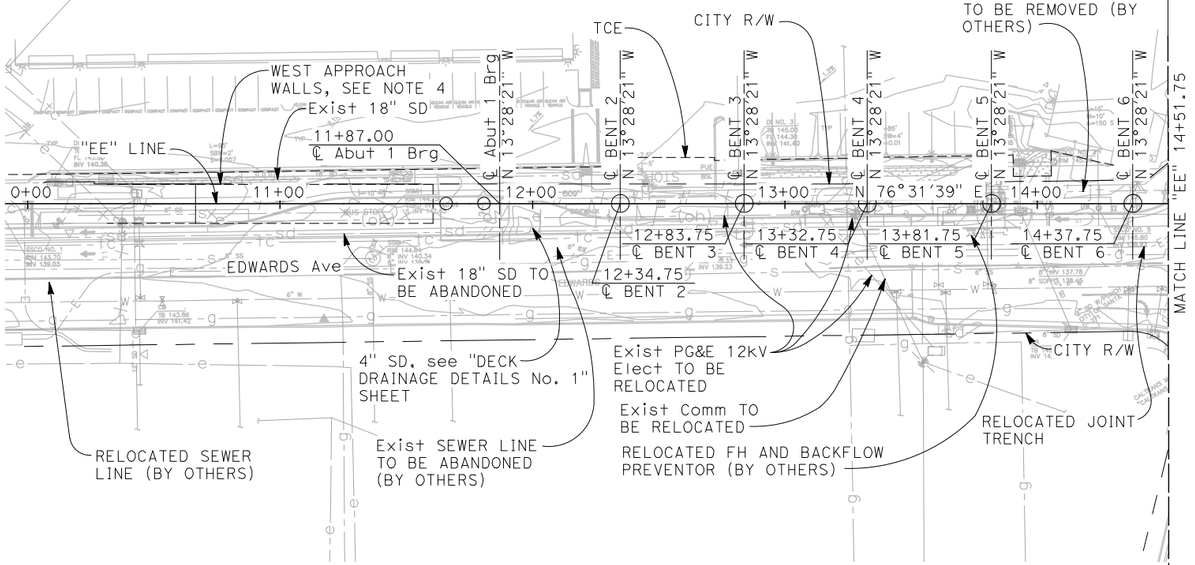
2018057 (2018057SRB_S6)

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



FOUNDATION PLAN

1" = 30'



FOUNDATION PLAN

1" = 30'

NOTE:
THE CONTRACTOR MUST VERIFY ALL
CONTROLLING FIELD DIMENSIONS BEFORE
ORDERING OR FABRICATING ANY MATERIAL

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	112	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — DANIEL S ROSELLINI — No. C79105 — Exp.3/31/26 — CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

LEGEND:
- ⇨ Indicates Traffic Direction
- ——— Indicates Caltrans Right-of-Way
- —— — —— Indicates City Right-of-Way
- ◯ ◯ Indicates Proposed CIDH Piles
- 0.00 Indicates Bottom of Pile Cap Elevation

NOTES:
1. This plan accurate for Edwards Avenue POC only.
2. Verify utilities with ROADWAY PLANS.
3. For Spread Footing Data Table, see "ABUTMENT 11 DETAILS No. 2" sheet.
4. For West Approach Walls and East Approach Walls, see "EDWARDS AVENUE POC APPROACH WALLS" plans.
5. For additional survey control, see ROADWAY PLANS.

SURVEY CONTROL

10005
SCRIBED X IN CONCRETE
69.74' Lt 17+68.82 "EE" LINE
N 1928788.099
E 6353897.587
Elev = 149.79

20019
MAG NAIL
72.89' Lt 14+65.61 "EE" LINE
N 1928720.526
E 6353601.991
Elev = 147.75

PILE DATA TABLE

LOCATION	PILE TYPE	CUT-OFF Elev (ft)	NOMINAL RESISTANCE (kips)		PERMANENT CASING SPECIFIED TIP Elev (ft)	DESIGN TIP Elev (ft)	SPECIFIED TIP Elev (ft), SEE NOTE 2
			COMPRESSION	TENSION			
Abut 1	60" Dia CIDH	149.3	1580	1030	N/A	52.0(a), 56.0(b), 119.4(c), 78.3(d)	50.0
BENT 2	84" Dia CIDH	137.5	800	-	123.6	83.0(a), 96.7(c), 84.1(d)	81.0
BENT 3	84" Dia CIDH	141.1	700	-	127.2	91.0(a), 100.5(c), 83.7(d)	81.7
BENT 4	84" Dia CIDH	143.4	780	-	129.5	89.0(a), 101.0(c), 82.9(d)	80.9
BENT 5	84" Dia CIDH	144.2	830	-	130.2	87.0(a), 100.0(c), 82.3(d)	80.3
BENT 6	84" Dia CIDH	144.5	860	-	130.5	86.0(a), 99.1(c), 87.5(d)	84.0
BENT 7	60" Dia CIDH	-	2150	1400	N/A	29.0(a), 35.0(b), 97.2(c), 85.3(d)	27.0
BENT 8	60" Dia CIDH	-	1530	880	N/A	48.0(a), 59.0(b), 44.5(c), 79.3(d)	42.5
BENT 9	84" Dia CIDH	147.8	820	-	133.9	88.0(a), 101.0(c), 89.4(d)	86.0
BENT 10	84" Dia CIDH	148.3	890	-	134.4	86.0(a), 101.0(c), 87.6(d)	84.0

NOTES:
1. Design tip elevations are controlled by (a) Compression, (b) Tension, (c) Settlement, (d) Lateral Load.
2. Slurry displacement method may be used for concrete placement of the CIDH piles. The specified pile tip elevations are two feet below the design tip elevations to account for the zone of untested concrete due to the limitations of the gamma-gamma logging (GGL) equipment.
3. The specified tip elevation must not be raised above the lowest design tip elevation.

Robert Des
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

SCALE: AS NOTED	VERT.DATUM NGVD 1929	HORZ.DATUM NAD 83	
PHOTOGRAMMETRY AS OF: N/A	ALIGNMENT TIES		
SURVEYED	BY R. Thomas	DRAFTED	BY D. Condon
FIELD CHECKED	BY W. Landreth	CHECKED	BY C. Cecilio

DESIGN	BY D. Rosellini	CHECKED D. Devlin
DETAILS	BY D. Rosellini	CHECKED D. Devlin
QUANTITIES	BY A. Notaro	CHECKED F. Franco

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
FOUNDATION PLAN

STRUCTURES FOUNDATION PLAN SHEET (ENGLISH) (REVISION 8/16/2021)

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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT NO.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
6-10-22		2-21-25	10-4-24	7	117

FILE => $REQUEST

(2018057SRB_S7)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	113	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER DATE

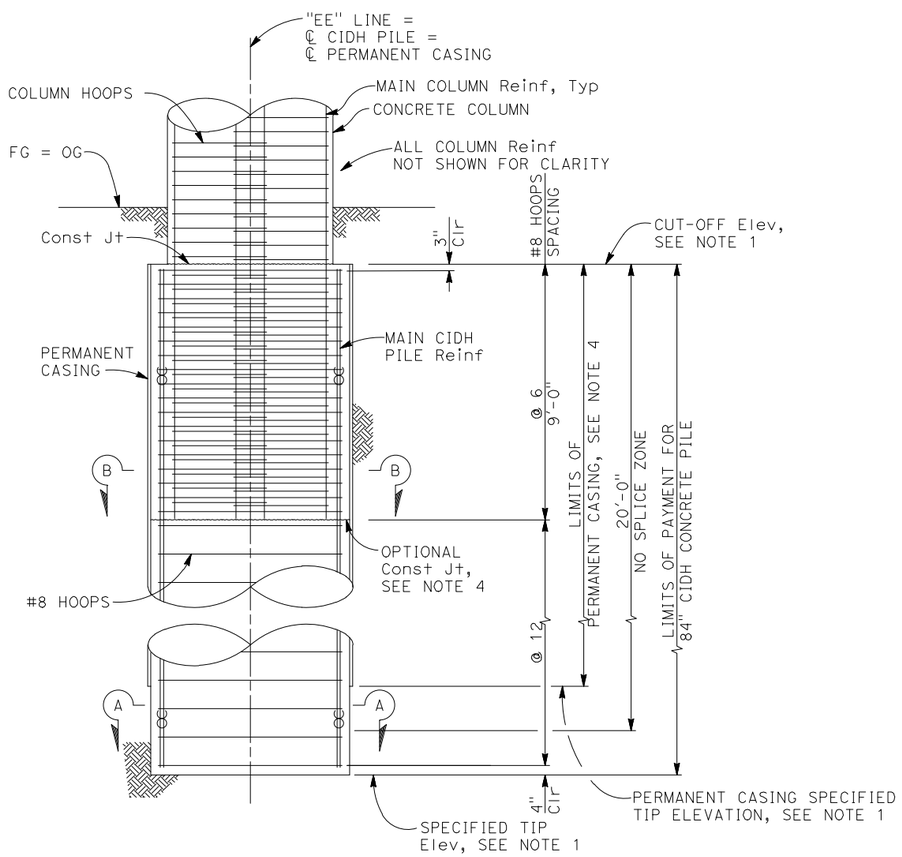
REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

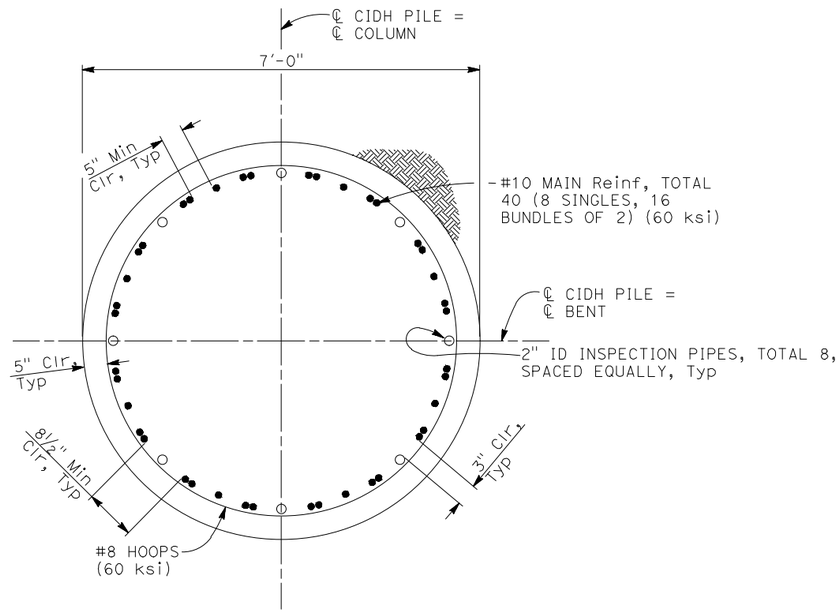
BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126



BENTS 2,3,4,5,6,9,10

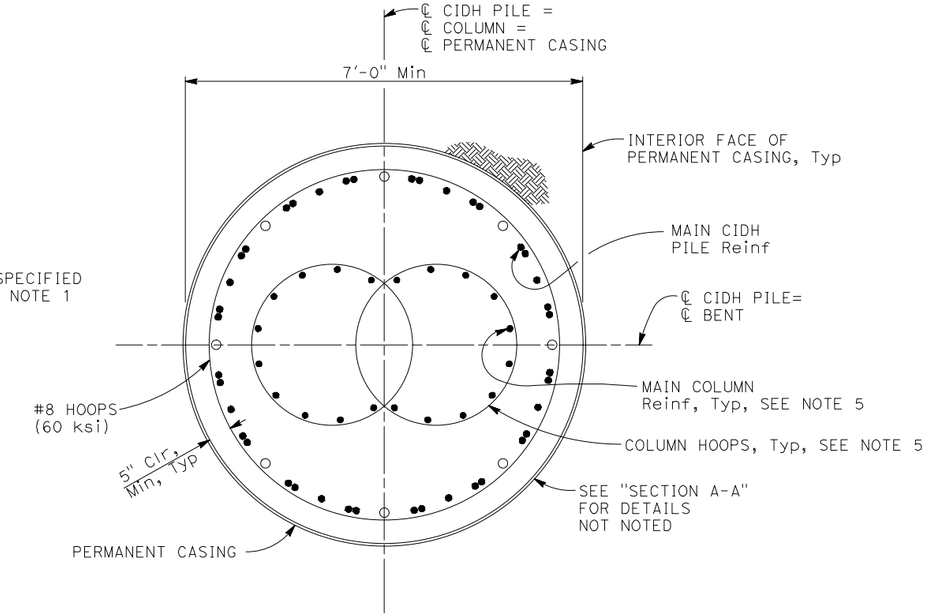
84" CIDH PILE ELEVATION

3/8" = 1'-0"



SECTION A-A

¾" = 1'-0"



SECTION B-B

¾" = 1'-0"

NOTES:
1. For cut-off elevations, specified tip elevations, and permanent casing specified tip elevations, see "PILE DATA TABLE" on "FOUNDATION PLAN" sheet.
2. All pile and column hoops must utilize ultimate butt splices.
3. Splices in main CIDH pile Reinf must be staggered service splices and must be located below the No Splice Zone.
4. The construction joint may be eliminated provided the pile concrete is not placed under slurry. If the construction joint is not placed in the pile, then the permanent casing is not required.
5. For main column reinforcement and column hoop details, see "BENT 2-3 LAYOUT" and "BENT 4-6 & 9-10 LAYOUT" sheets.

LEGEND:
OG Indicates Bundled Bars

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
CIDH PILE DETAILS No. 1

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

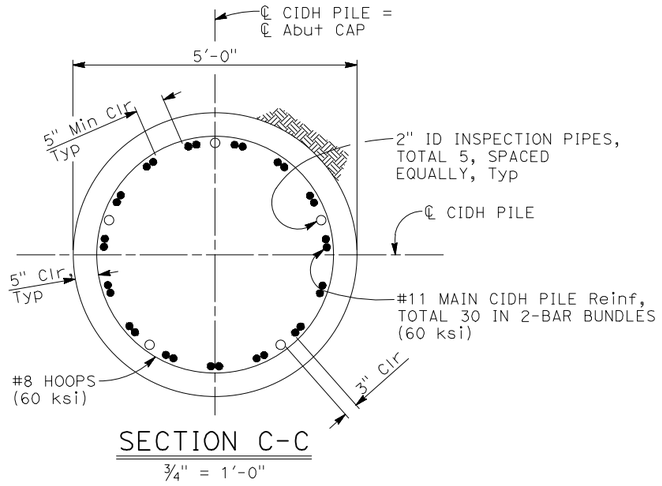
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

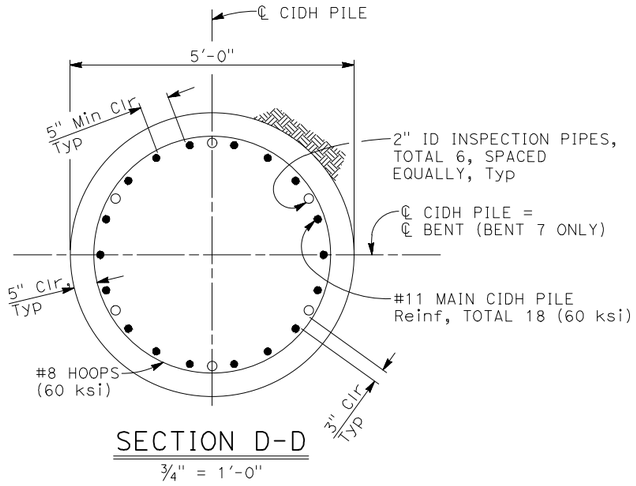
REVISION DATES				SHEET	OF
6-10-22	1-10-23	6-28-24	10-4-24	8	117

(2018057SRB_S8) 2018057



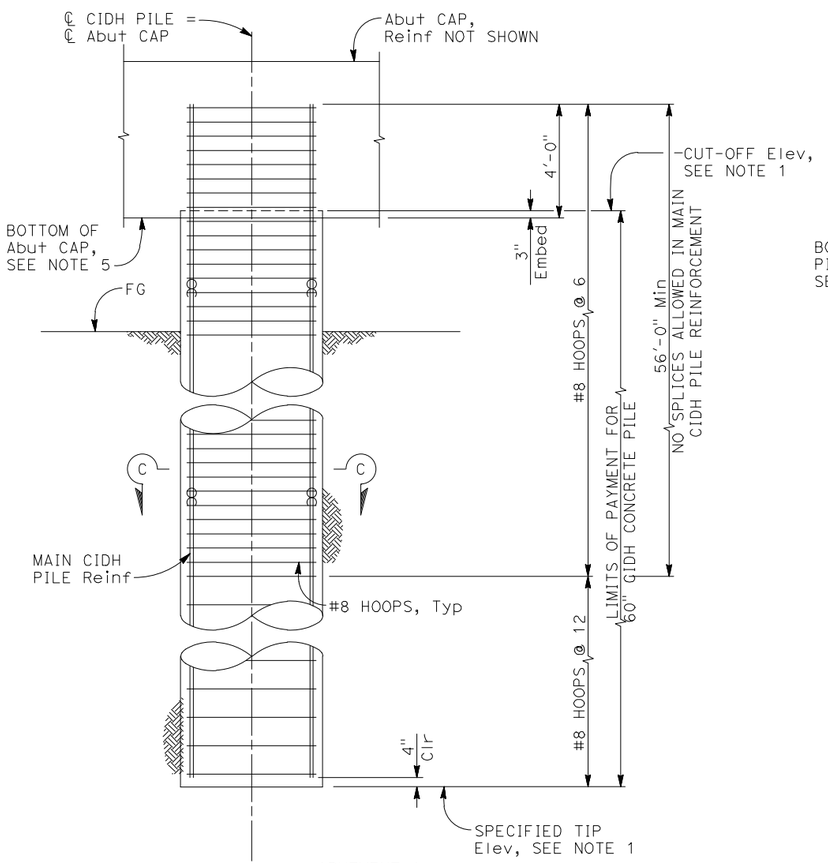
SECTION C-C

3/4" = 1'-0"

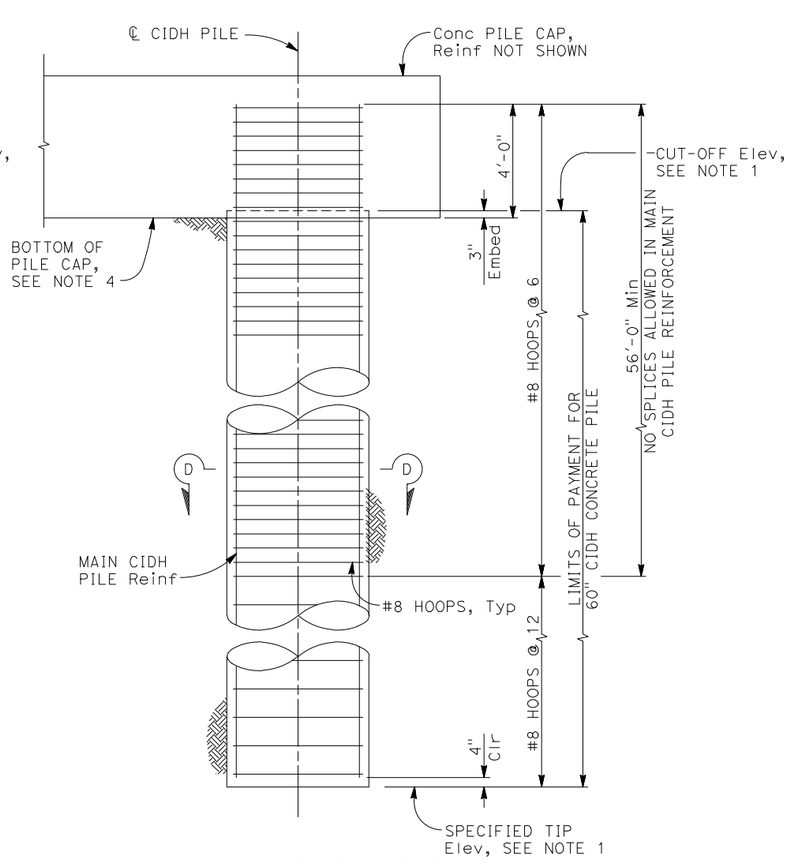


SECTION D-D

3/4" = 1'-0"



ABUTMENT 1



BENT 7 AND BENT 8

60" CIDH PILE ELEVATION

3/8" = 1'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	114	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — DANIEL S ROSELLINI — No. C79105 — Exp.3/31/26 — CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

NOTES:
1. For cut-off elevations and specified tip elevations, see "PILE DATA TABLE" on "FOUNDATION PLAN" sheet.
2. All pile hoops must utilize ultimate butt splices.
3. Splices in main CIDH pile Reinf must be staggered ultimate butt splices and must be located below the No Splice Zone.
4. For bottom of pile cap elevations, see "FOUNDATION PLAN" sheet.
5. For abutment cap details, see "ABUTMENT 1 LAYOUT" sheet.

LEGEND:
Indicates Bundled Bars

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
CIDH PILE DETAILS No. 2

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

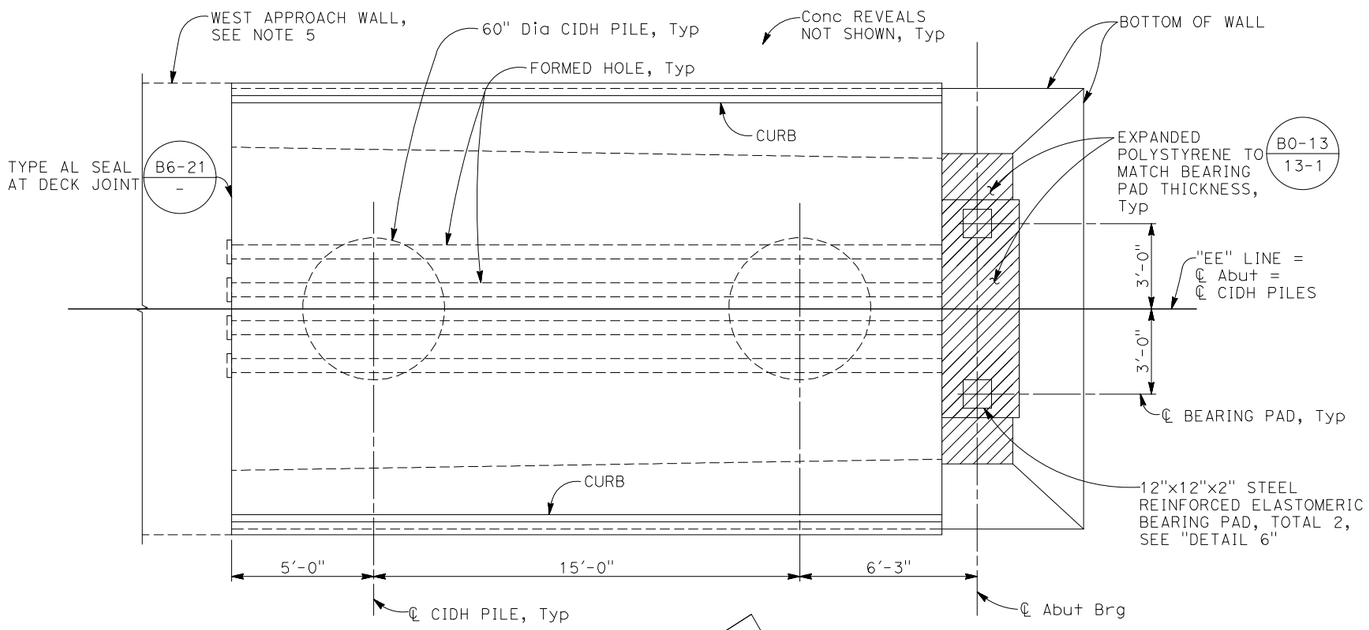
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES: 6-10-22 | 1-10-23 | 6-28-24 | 10-4-24

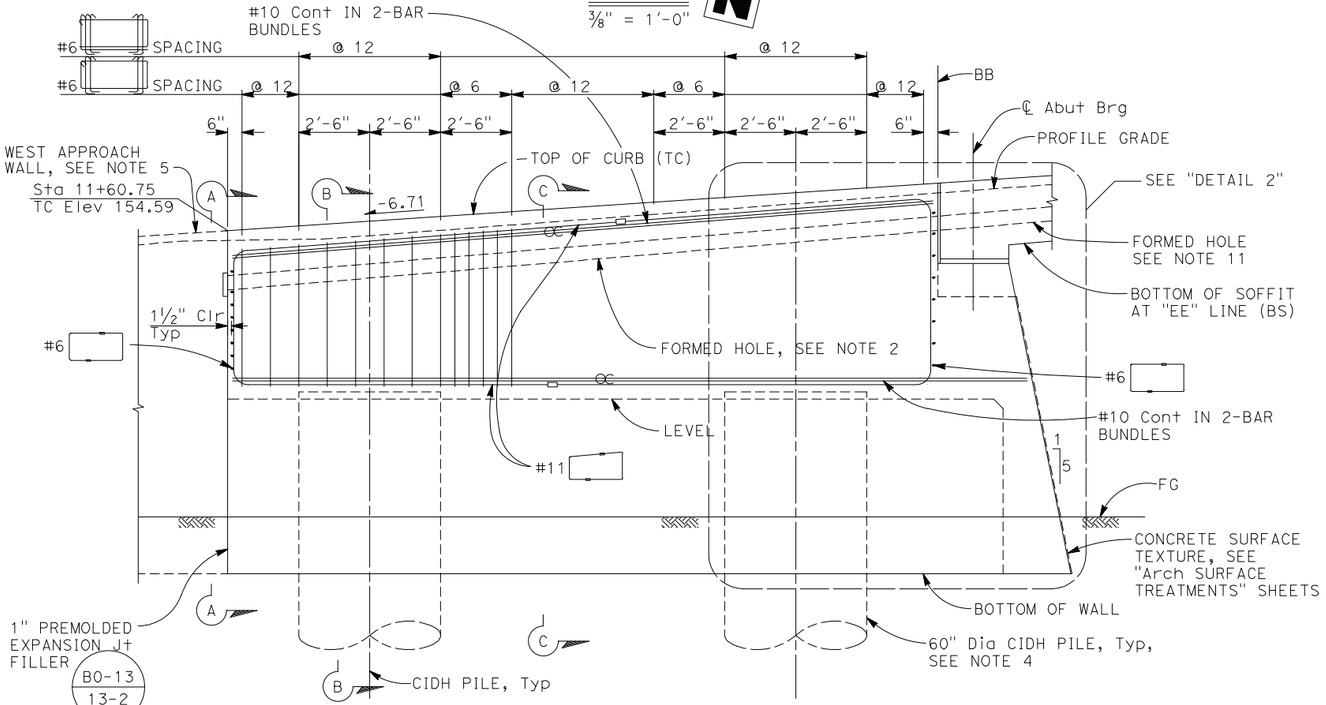
SHEET 9 OF 117

2018057 (2018057SRB_S9)



PLAN

3/8" = 1'-0"



SOUTH ELEVATION

3/8" = 1'-0"

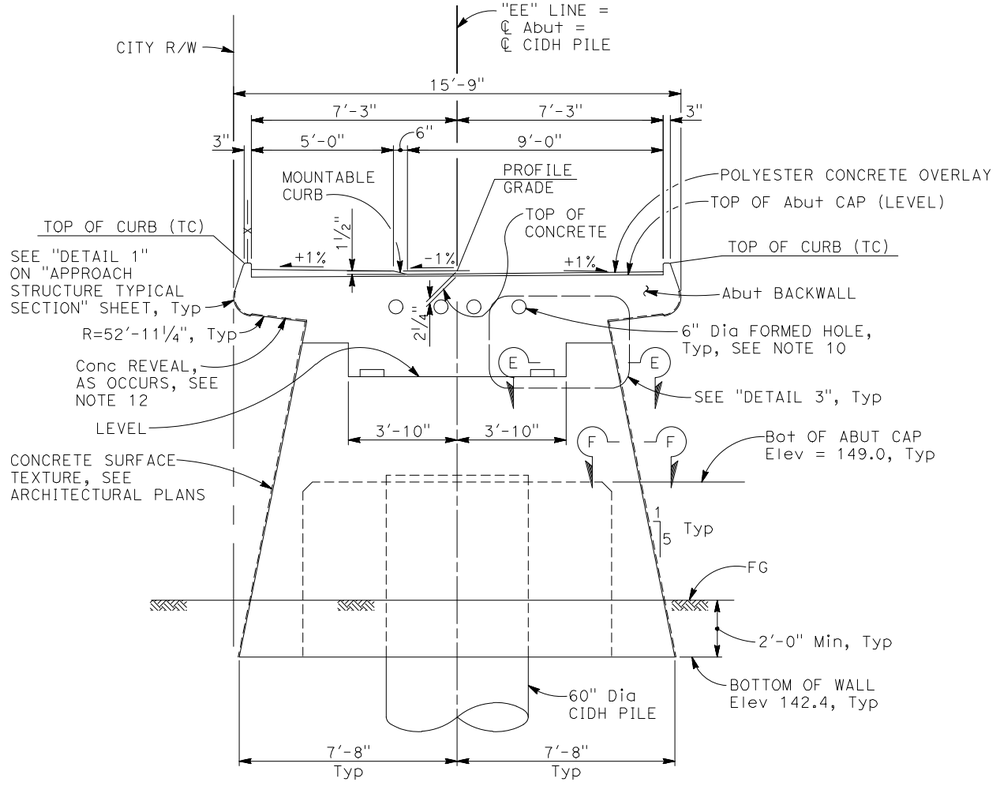
NOTES:

1. All transverse dimensions are measured normal to "EE" Line.
2. Formed hole must be aligned to form a straight line the entire length of the restrainers and be parallel to the "EE" Line. During construction hole ends must be capped to prevent debris intrusion.
3. All reinforcement not shown for clarity.
4. For CIDH pile details, see "CIDH PILE DETAILS No. 2" sheet.
5. For West Approach Wall details, see EDWARDS AVE POC APPROACH WALLS sheets.
6. For "VIEW A-A", "SECTION B-B", and "SECTION C-C", see "ABUTMENT 1 DETAILS No. 1" sheet.
7. For "DETAIL 2" see "ABUTMENT 1 DETAILS No. 2" sheet.
8. For "SECTION E-E", "SECTION F-F" and DETAIL 3", see "ABUTMENT 1 DETAILS No. 3" sheet.
9. For "DETAIL 6", see "ABUTMENT 11 DETAILS No. 2" sheet.
10. Each formed hole must contain 5 cable restrainers. For cable restrainer details, see "CABLE RESTRAINER HARDWARE DETAILS" sheet.
11. For formed hole extension in superstructure, see "SLAB DETAILS No. 2" sheet.
12. For concrete reveal details, see "DETAIL 1" and "DETAIL 2" on "APPROACH STRUCTURE TYPICAL SECTION" sheet.
13. Guard not shown. For guard and guard anchorage details, see "STANCHION DETAILS No. 1" sheet and "GUARD DETAILS" sheets.

LEGEND

—□— Indicates Service Splice

=CC= Indicates Bundled Bars



FRONT ELEVATION

3/8" = 1'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	115	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
ABUTMENT 1 LAYOUT

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 4:51pm
FILE => 2018057SRB_S10.dwg USERNAME => SMH
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
6-10-22	1-10-23	6-28-24	2-21-25	10	117

2018057 (2018057SRB_S10)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	116	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

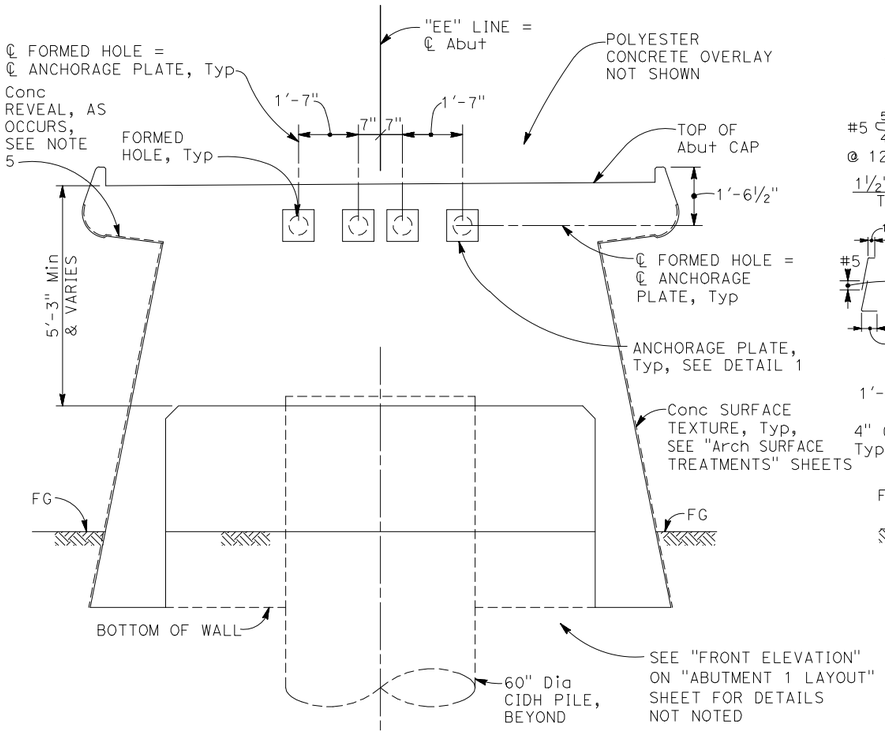
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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

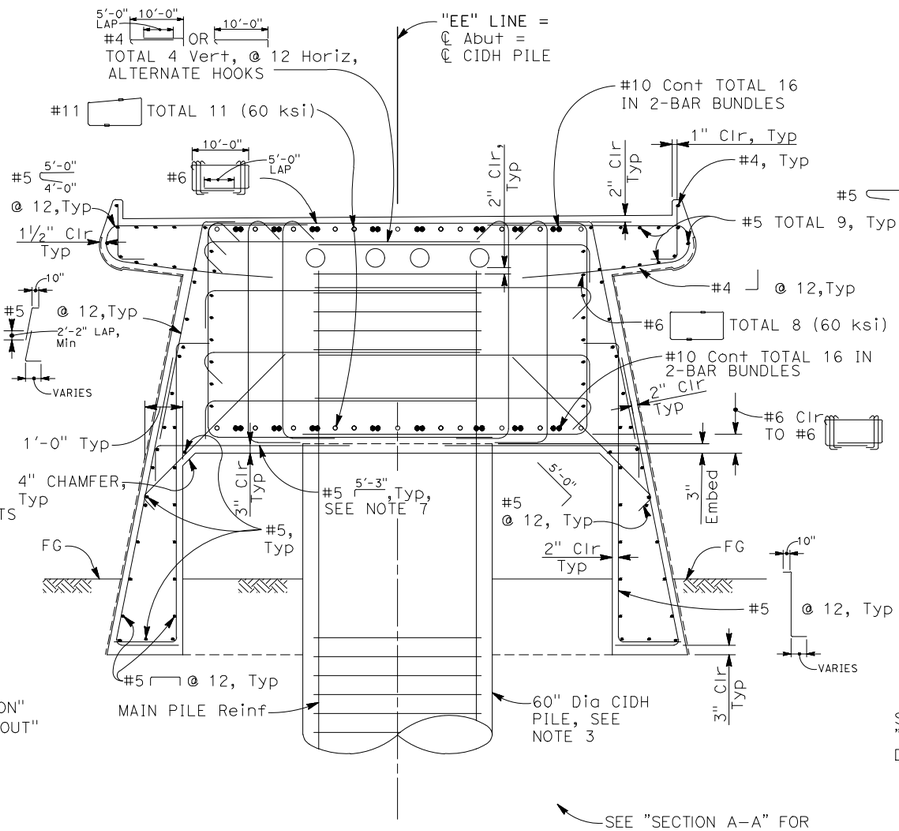
BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

NOTES:
1. All transverse dimensions are measured normal to "EE" Line.
2. No splices permitted in continuous abutment cap reinforcement.
3. For CIDH pile details, see "CIDH PILE DETAILS No. 2" sheet.
4. For "DETAIL 1", see "ABUTMENT 1 DETAILS 2" sheet.
5. For concrete reveal details, see "DETAIL 1" and "DETAIL 2" on "APPROACH STRUCTURE TYPICAL SECTION" sheet.
6. Guard not shown. For guard and guard anchorage details, see "STANCHION DETAILS No. 1" sheet and "GUARD DETAILS" sheets.
7. Trim reinforcement at conflict with CIDH pile to provide 3" clear to CIDH pile.

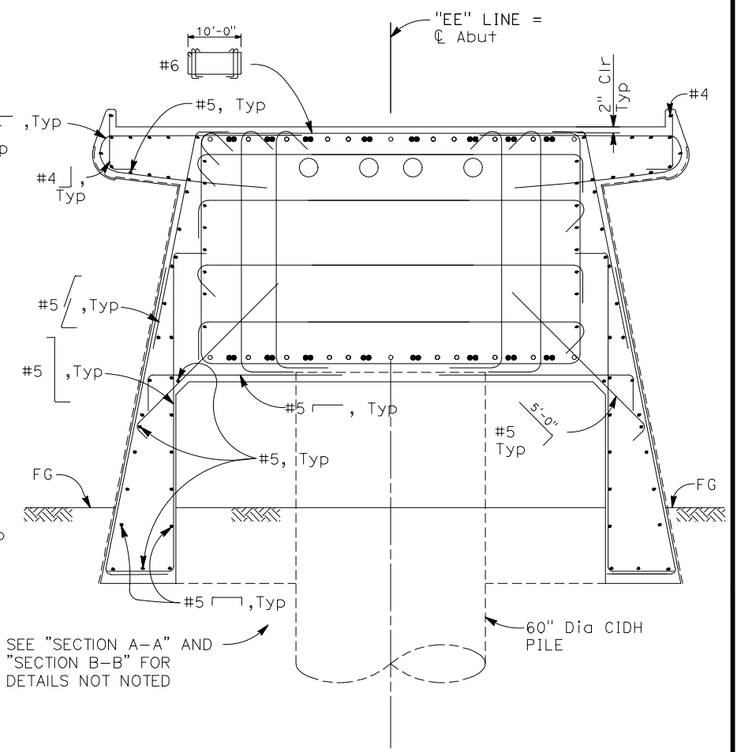
LEGEND
—□— Indicates Service Splice



VIEW A-A
½" = 1'-0"



SECTION B-B
½" = 1'-0"



SECTION C-C
½" = 1'-0"

DESIGN	BY D. Rosellini	CHECKED D. Devlin	
DETAILS	BY D. Rosellini	CHECKED D. Devlin	
QUANTITIES	BY A. Notaro	CHECKED F. Franco	

Robert Dos
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO.	POST MILES
20-0307	21.5

EDWARDS AVENUE POC
ABUTMENT 1 DETAILS No. 1

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 4:52pm
FILE => 2018057SRB_S11.dwg USERNAME => SMH
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
6-10-22		2-21-25	10-4-24	11	117

2018057 (2018057SRB_S11)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	117	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER DATE

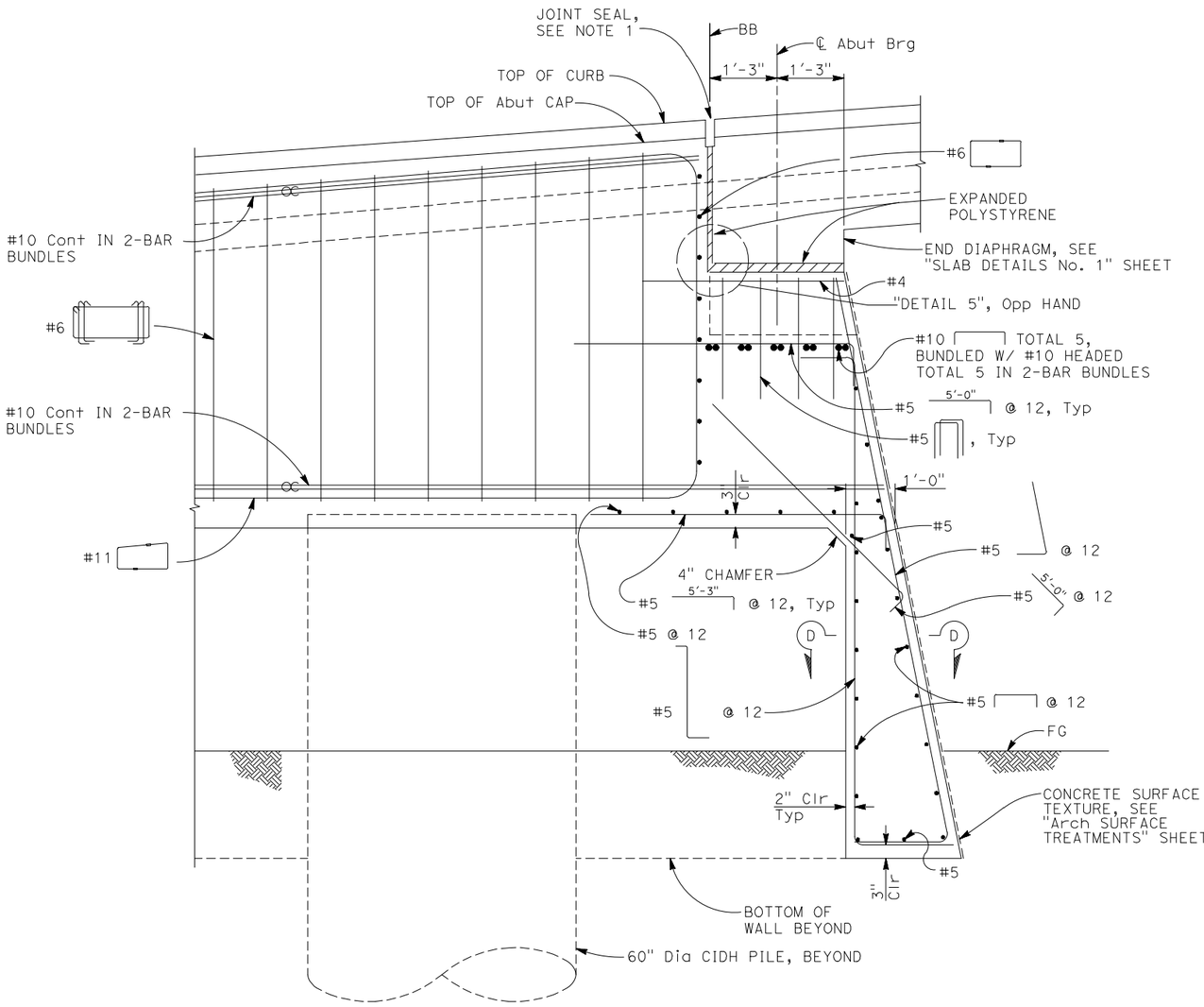
REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

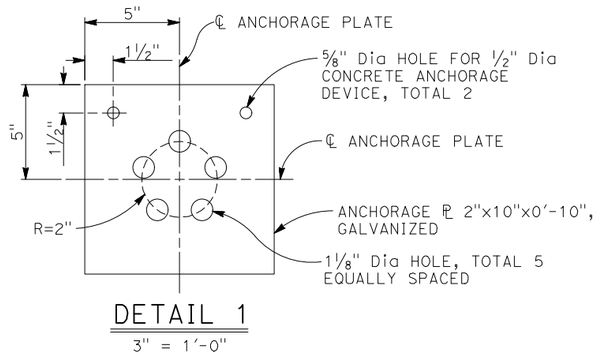
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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126



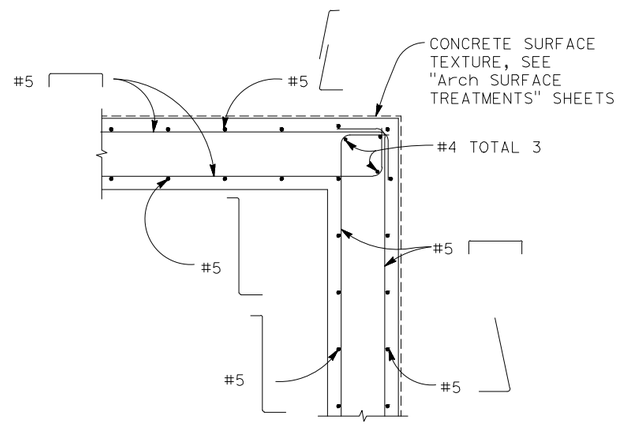
DETAIL 2
3/4" = 1'-0"



DETAIL 1
3" = 1'-0"

NOTES:
1. For movement rating and joint details not shown, see "JOINT SEAL DETAILS" sheet.
2. For "DETAIL 5". see "ABUTMENT 11 DETAILS No. 1" sheet.
3. Headed bars must be 60 ksi.

LEGEND
—□— Indicates Service Splice



SECTION D-D
3/4" = 1'-0"

Robert Des
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

DESIGN	BY D. Rosellini	CHECKED D. Devlin	
DETAILS	BY D. Rosellini	CHECKED D. Devlin	
QUANTITIES	BY A. Notaro	CHECKED F. Franco	

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
ABUTMENT 1 DETAILS No. 2

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

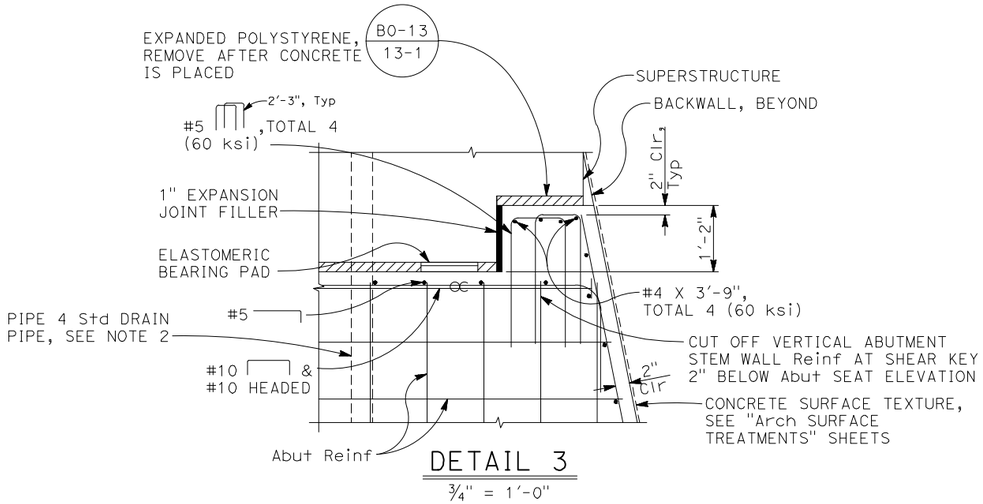
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES: 6-10-22 | 2-21-25 | 10-4-24

SHEET 12 OF 117

2018057 (2018057SRB_S12)



DETAIL 3

3/4" = 1'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	118	247

Daniel C Rosellini 5/2/25

REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

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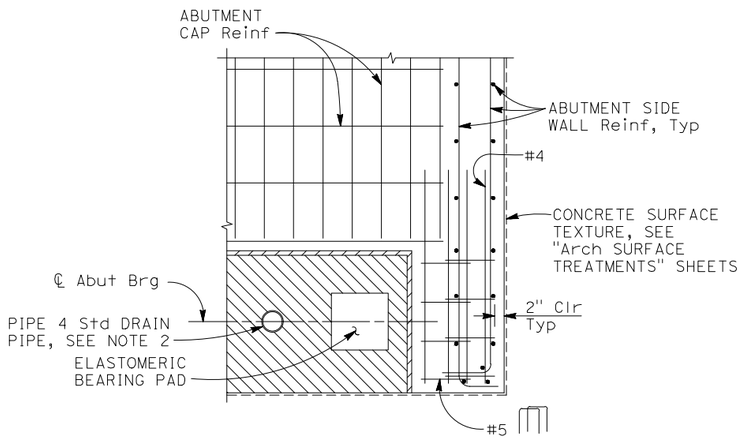
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

NOTES:
1. Headed bars must be 60 ksi.
2. For drainage and drain pipe details, see "DECK DRAINAGE DETAILS" sheets.
3. For elastomeric bearing pad details, see "DETAIL 6" on "ABUTMENT 11 DETAILS No. 2" sheet.

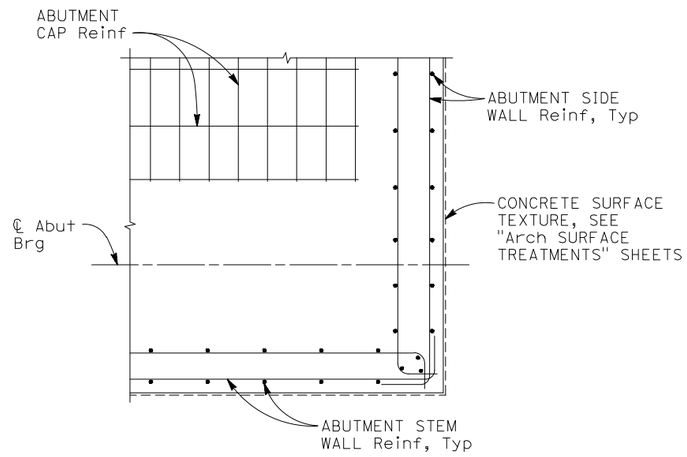
LEGEND:

OC Indicates Bundled Bars



SECTION E-E

3/4" = 1'-0"



SECTION F-F

3/4" = 1'-0"

Robert Peo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
ABUTMENT 1 DETAILS No. 3

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

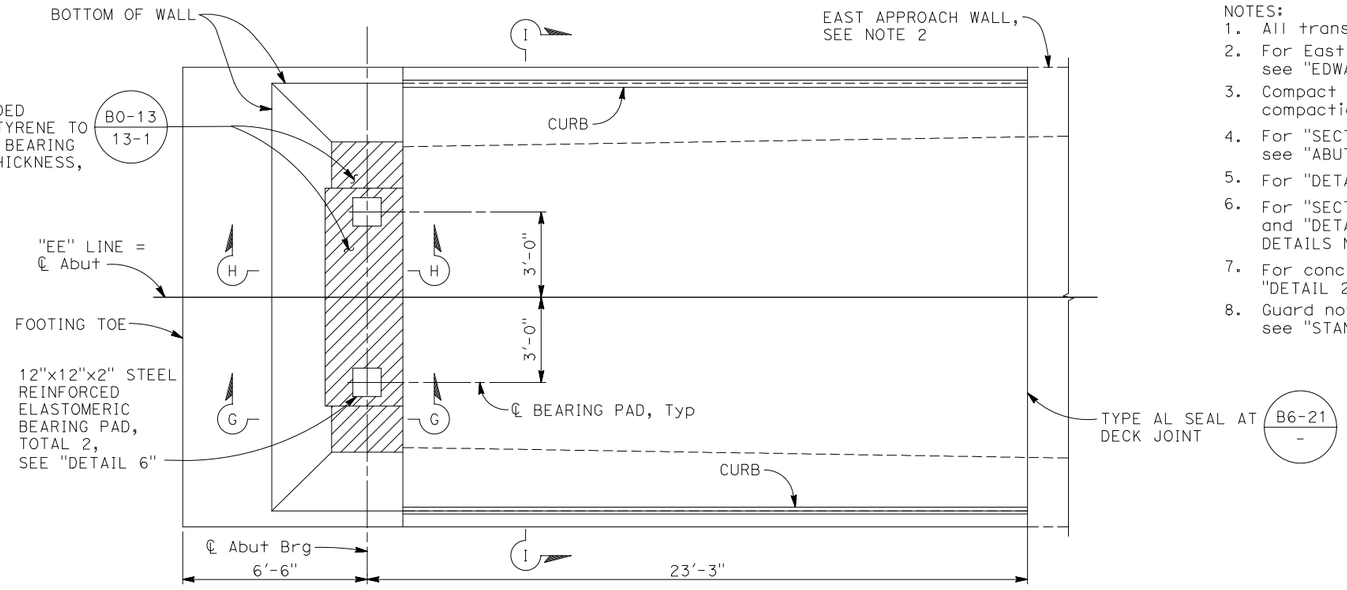
DATE PLOTTED => May 01, 2025 TIME PLOTTED => 4:52pm
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
6-10-22		2-21-25	10-4-24	13	117

(2018057SRB_S13)

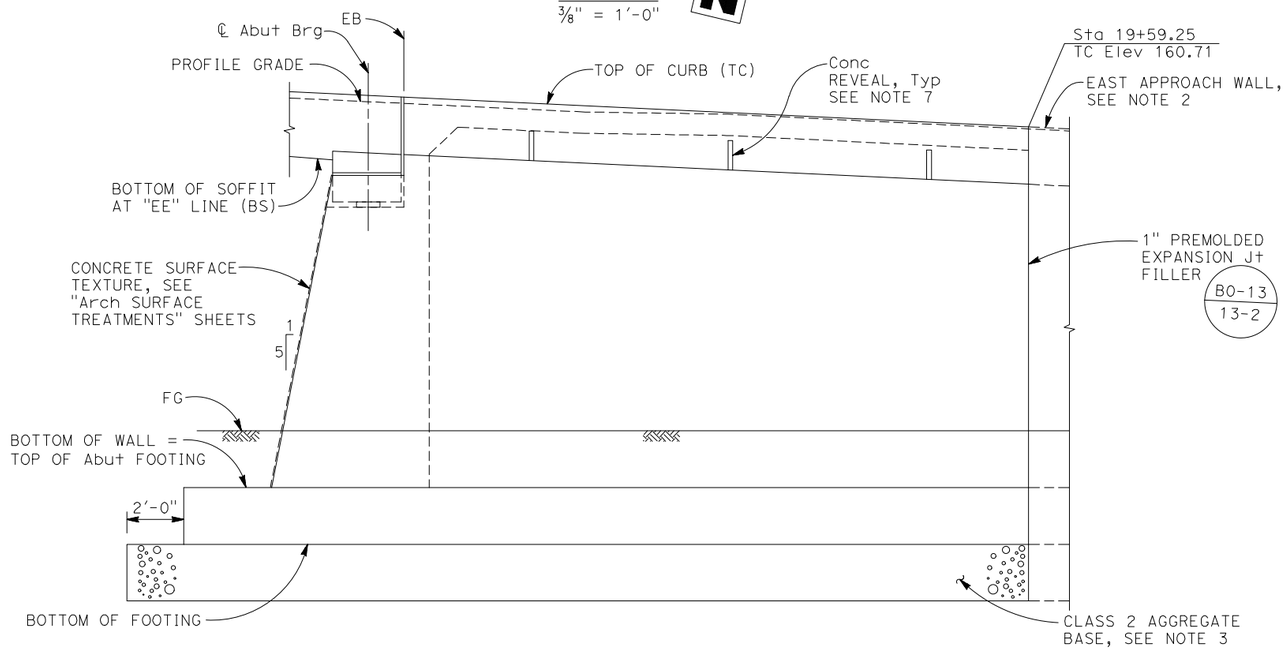


PLAN

3/8" = 1'-0"

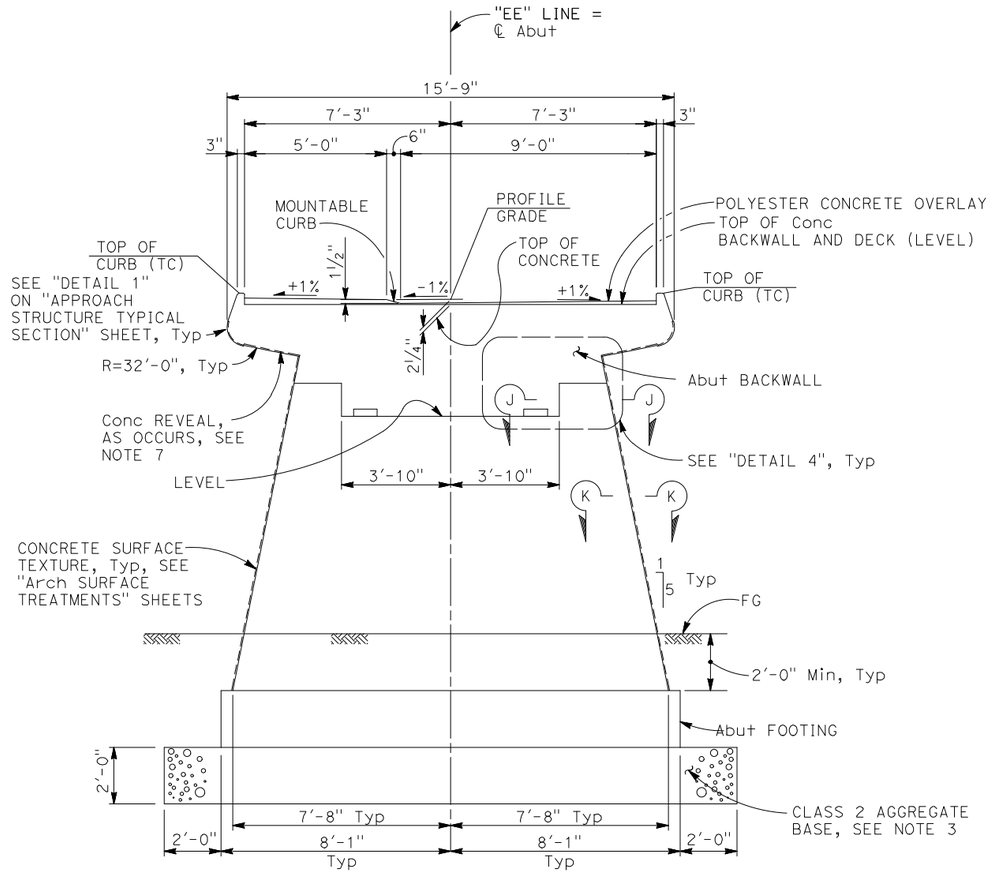
NOTES:

1. All transverse dimensions are measured normal to "EE" Line.
2. For East Approach Wall details, see "EDWARDS AVE POC APPROACH WALLS" plans.
3. Compact class 2 aggregate base to a relative compaction of at least 95 percent.
4. For "SECTION G-G", and "SECTION H-H", see "ABUTMENT 11 DETAILS No. 1" sheet.
5. For "DETAIL 4", see "ABUTMENT 11 DETAILS No. 1" sheet.
6. For "SECTION I-I" "SECTION J-J", "SECTION K-K", and "DETAIL 6", see "ABUTMENT 11 DETAILS No. 2" sheet.
7. For concrete reveal details, see "DETAIL 1" and "DETAIL 2", on "APPROACH STRUCTURE TYPICAL SECTION" sheet.
8. Guard not shown. For guard and guard anchorage details, see "STANCHION DETAILS No. 1" sheet and "GUARD DETAILS" sheets.



SOUTH ELEVATION

3/8" = 1'-0"



FRONT ELEVATION

3/8" = 1'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	119	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
ABUTMENT 11 LAYOUT

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 4:52pm
FILE => 2018057SRB_S14.dwg USERNAME => SMH
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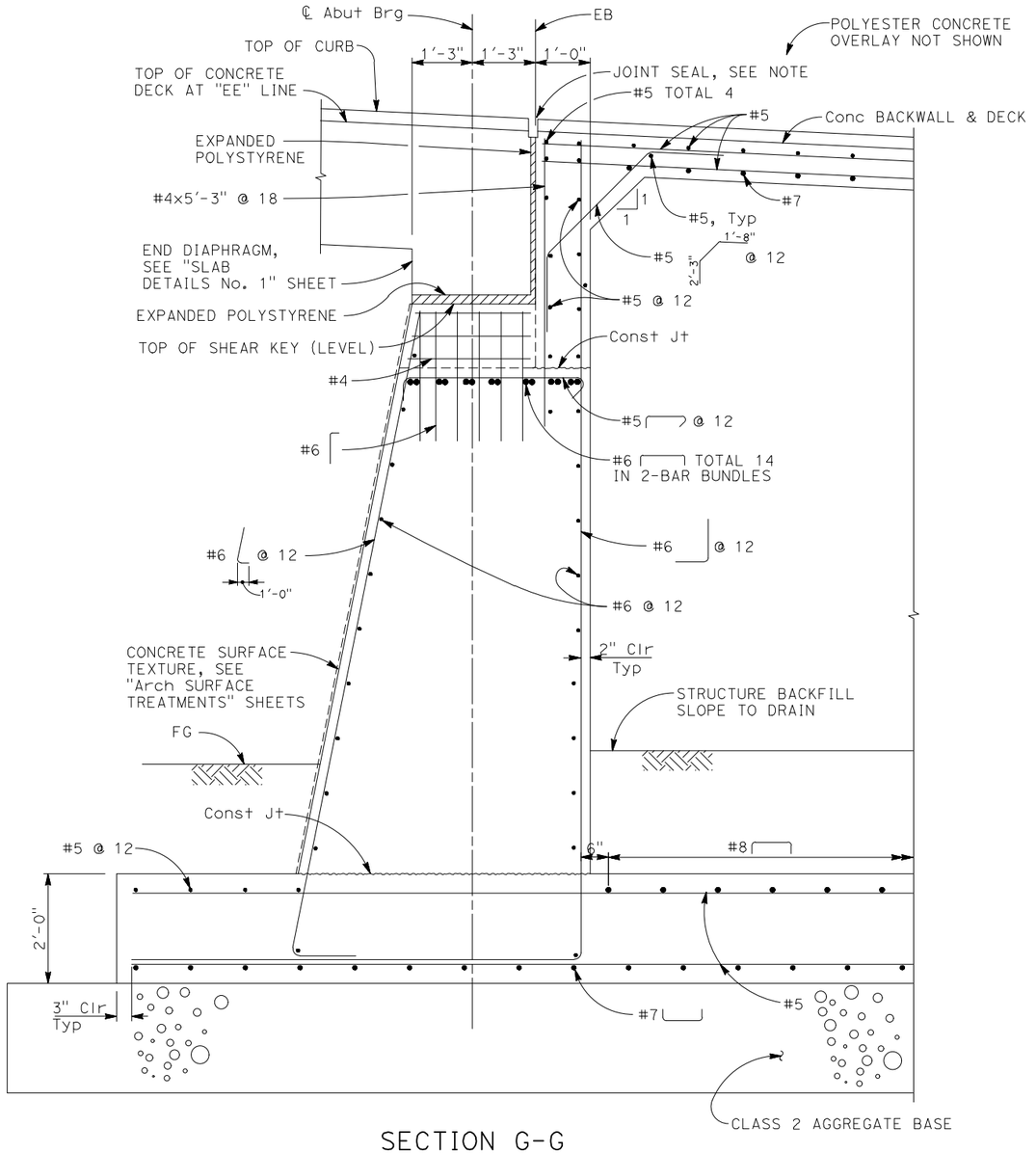
PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
6-10-22	1-10-23	6-28-24	2-21-25	14	117

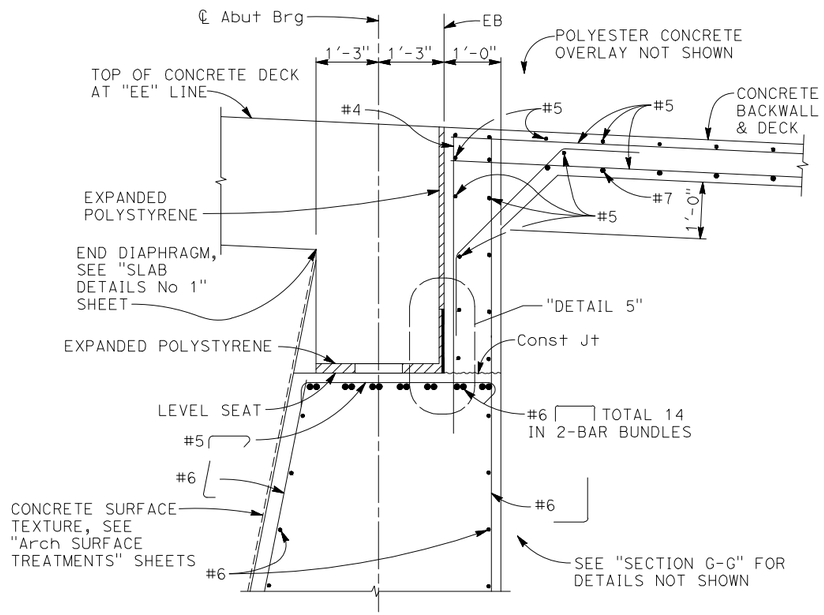
2018057

2018057SRB_S14



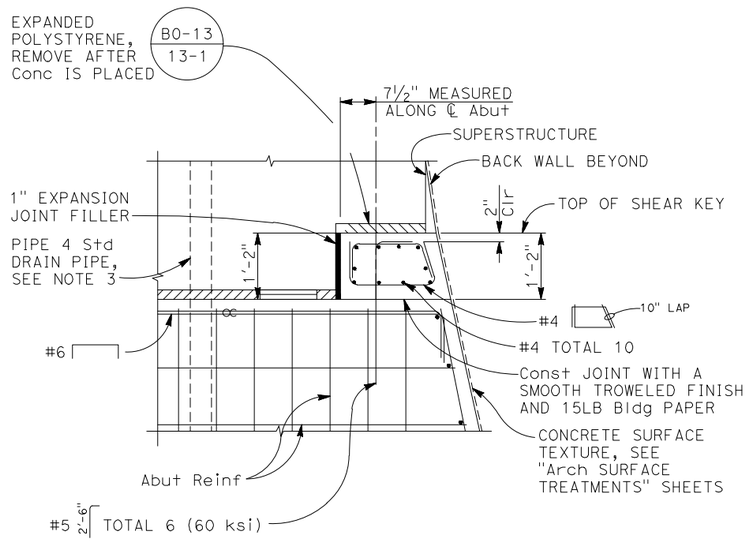
SECTION G-G

3/4" = 1'-0"



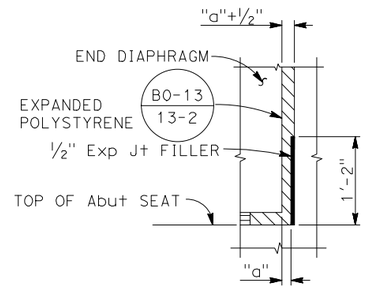
SECTION H-H

3/4" = 1'-0"



DETAIL 4

3/4" = 1'-0"



NOTES:

1. See "JOINT SEAL DETAILS" sheet for dimension "a".
2. Extend joint to bottom of depressed seat at interior key.

DETAIL 5

NO SCALE

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	120	247

Daniel G Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

NOTES:

1. For movement rating and joint details not shown, see "JOINT SEAL DETAILS" sheet.
2. Guard not shown. For guard and guard anchorage details, see "STANCHION DETAILS No. 1" sheet and "GUARD DETAILS" sheets.
3. For drainage and drain pipe details, see "DECK DRAINAGE DETAILS" sheets.

LEGEND:

⧦ Indicates Bundled Bars

Kaker M. Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
ABUTMENT 11 DETAILS No. 1

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 4:52pm
FILE => 2018057SRB_S15.dwg USERNAME => SMH
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES: 6-10-22 | 2-21-25 | 10-4-24

SHEET 15 OF 117

2018057 (2018057SRB_S15)

SPREAD FOOTING DATA TABLE			
SUPPORT LOCATION	SERVICE (SETTLEMENT)	STRENGTH/CONSTRUCTION Φ_b = 0.45	EXTREME EVENT Φ_b = 1.00
	PERMISSIBLE NET CONTACT STRESS (ksf)	FACTORED GROSS NOMINAL BEARING RESISTANCE (ksf)	FACTORED GROSS NOMINAL BEARING RESISTANCE (ksf)
Abut 11	1.4	3.4	8.8

NOTES:
1. All transverse dimensions are measured normal to "EE" Line.
2. 6" square aluminum or galvanized steel wire ¼" mesh hardware cloth, minimum wire diameter 0.025". Anchor firmly to backface.
3. Exposed wall drains must be located 3"± above finish grade.
4. Compact structure backfill to a relative compaction of at least 90 percent. Structure backfill must have a plasticity index of not less than 7 and not greater than 15.
5. For drainage and drain pipe details, see "DECK DRAINAGE DETAILS" sheets.
6. For concrete deck reveal details, see "DETAIL 1" and "DETAIL 2" on "APPROACH STRUCTURE TYPICAL SECTION" sheet.
7. For guard and guard anchorage details, see "STANCHION DETAILS No. 1" sheet and "GUARD DETAILS" sheets.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	121	247

Daniel Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

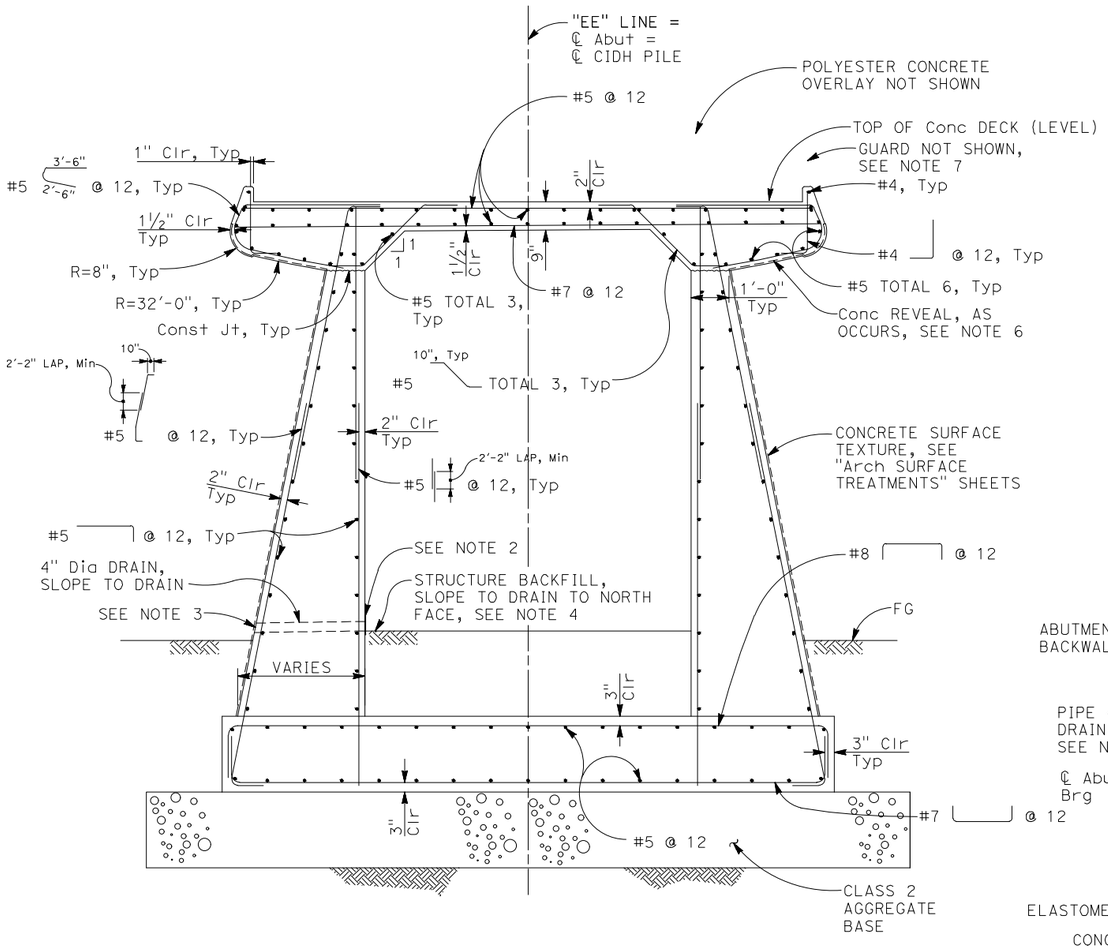
REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

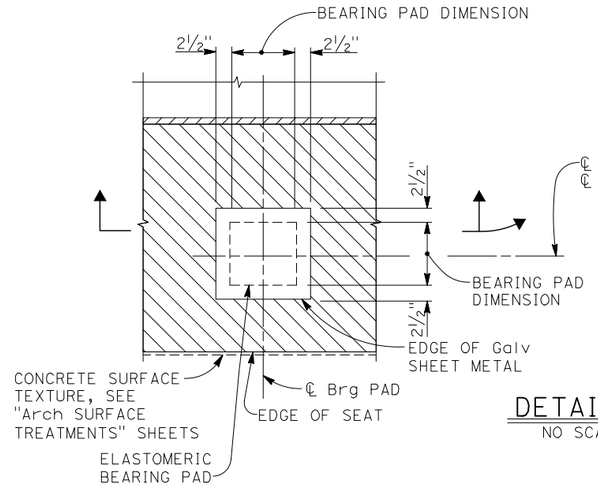
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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

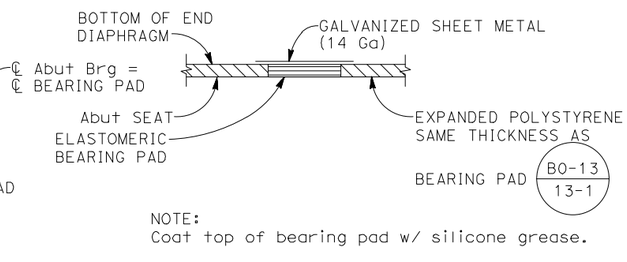
BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126



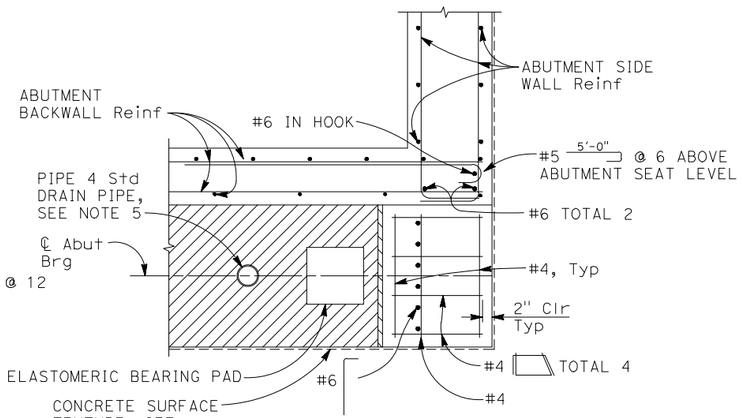
SECTION I-I
½" = 1'-0"



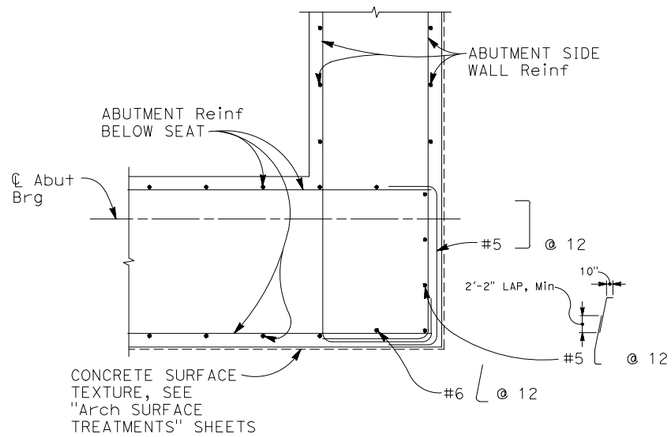
DETAIL 6
NO SCALE



NOTE:
Coat top of bearing pad w/ silicone grease.



SECTION J-J
¾" = 1'-0"



SECTION K-K
¾" = 1'-0"

Robert Reo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
ABUTMENT 11 DETAILS No. 2

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025
FILE => 2018057SRB_S16.dwg
TIME PLOTTED => 4:53pm
USERNAME => SMH
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES: 6-10-22 | 2-21-25 | 10-4-24

SHEET 16 OF 117

2018057 (2018057SRB_S16)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	122	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

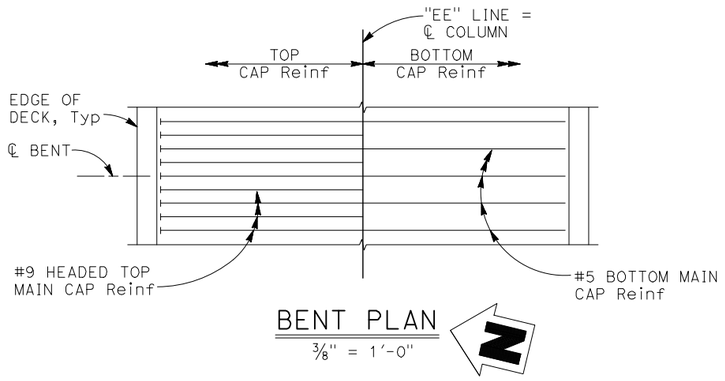
REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

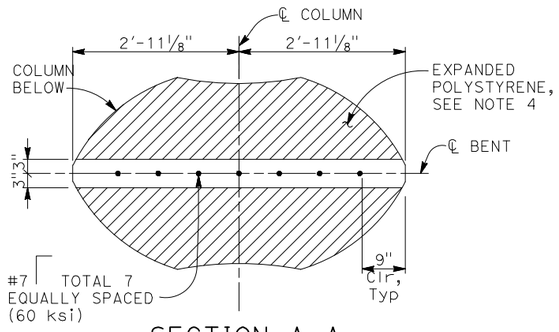
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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

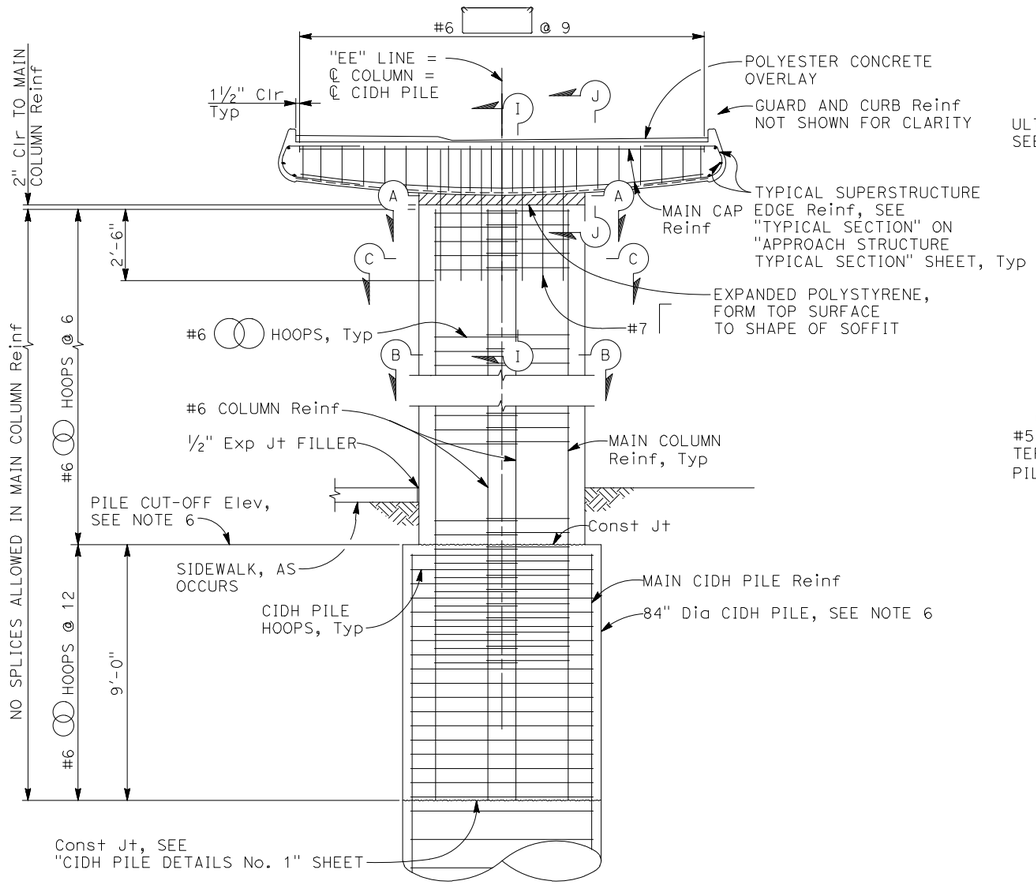
BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126



BENT PLAN
3/8" = 1'-0"

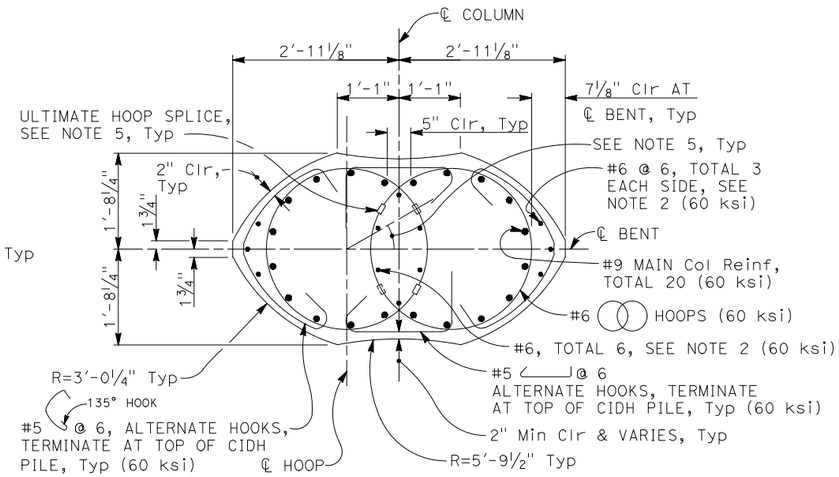


SECTION A-A
3/4" = 1'-0"

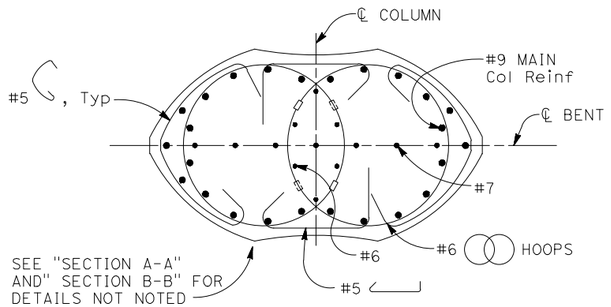


BENT 2 SHOWN BENT 3 SIMILAR

ELEVATION
3/8" = 1'-0"



SECTION B-B
3/4" = 1'-0"



SECTION C-C
3/4" = 1'-0"

NOTES:
1. All column hoops must utilize ultimate butt splices.
2. Vertical #6 bars outside of column interlocking hoops must be terminated at top of CIDH pile. Vertical #6 bars within column interlocking hoops may be terminated at top of CIDH pile at the Contractor's option.
3. No splices allowed in main cap reinforcement.
4. Remove expanded polystyrene after construction of superstructure.
5. Locate hoop splice within hoop interlock region, staggered at ±30° of ℄ bent, measured from ℄ hoop.
6. For CIDH Pile details, see "CIDH PILE DETAILS No. 1" sheet.
7. For "SECTION I-I" and "SECTION J-J", see "BENT DETAILS No. 1" sheet.

LEGEND:
CC Indicates Bundled Bars
Indicates Ultimate Splice

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

DESIGN	BY D. Rosellini	CHECKED D. Devlin	
DETAILS	BY D. Rosellini	CHECKED D. Devlin	
QUANTITIES	BY A. Notaro	CHECKED F. Franco	

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
BENT 2-3 LAYOUT

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

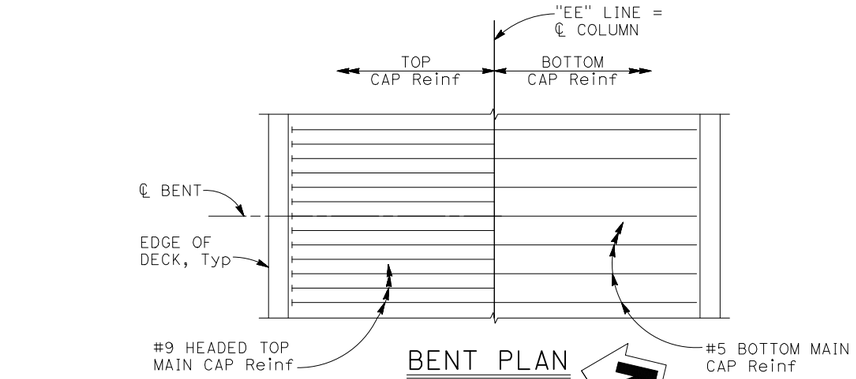
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES: 6-10-22 | 2-21-25 | 10-4-24

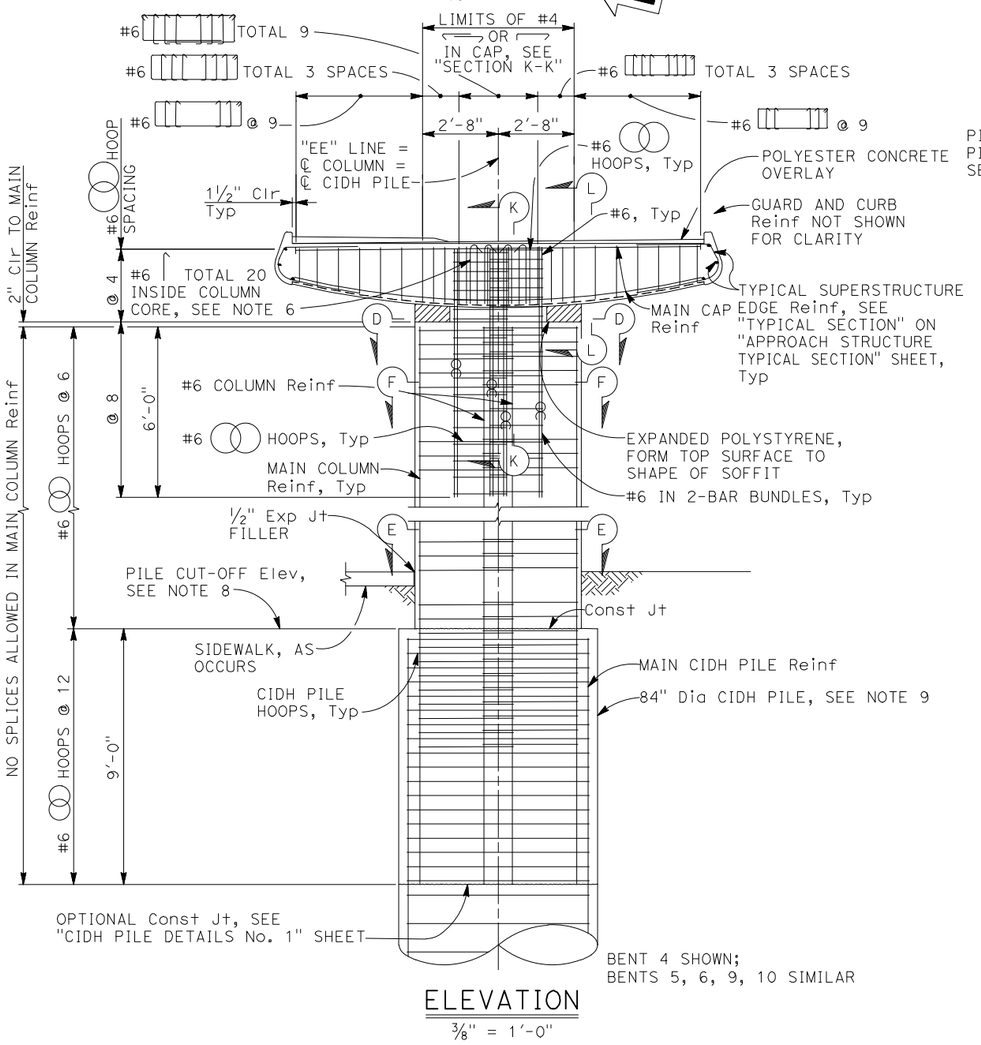
SHEET 17 OF 117

2018057 (2018057SRB_S17)



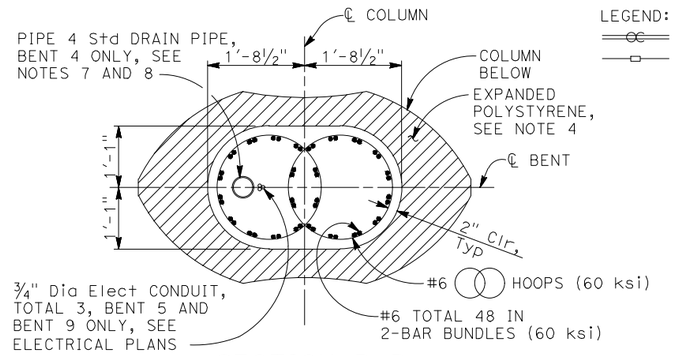
BENT PLAN

3/8" = 1'-0"



ELEVATION

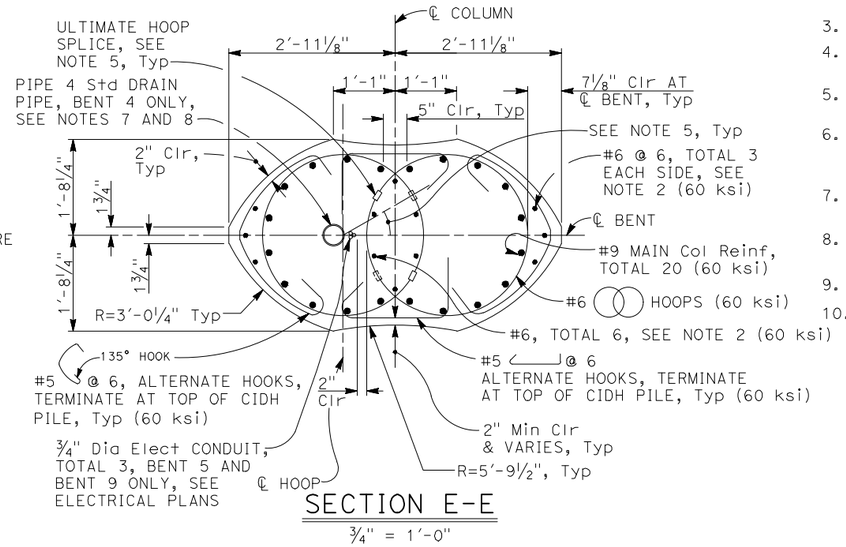
3/8" = 1'-0"



SECTION D-D

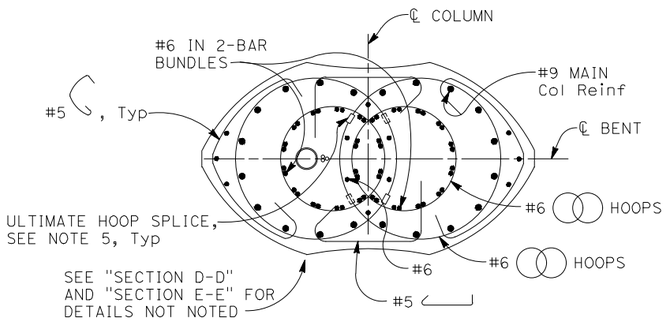
¾" = 1'-0"

LEGEND:
- Indicates Bundled Bars
- Indicates Ultimate Splice



SECTION E-E

¾" = 1'-0"



SECTION F-F

¾" = 1'-0"

NOTES:
1. All column hoops must utilize ultimate butt splices.
2. Vertical #6 bars outside of column interlocking hoops must be terminated at top of CIDH pile. Vertical #6 bars within column interlocking hoops may be terminated at top of CIDH pile at the Contractor's option.
3. No splices allowed in main cap reinforcement.
4. Remove expanded polystyrene after construction of superstructure.
5. Locate hoop splice within hoop interlock region, staggered at ±30° of ℄ bent, measured from ℄ hoop.
6. J-Bars must be hooked to the superstructure longitudinal reinforcement and must extend down to within 3" of the top of the column.
7. For column reinforcement adjustments at conduits and drain pipe outlets, see "DETAIL 6" on "BENT DETAILS No. 1" sheet.
8. For drainage and drain pipe details, see "DECK DRAINAGE DETAILS" sheet.
9. For CIDH Pile details, see "CIDH PILE DETAILS No. 1" sheet.
10. For "SECTION K-K" and "SECTION L-L", SEE "BENT DETAILS No. 1" sheet.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	123	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — DANIEL S ROSELLINI — No. C79105 — Exp.3/31/26 — CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

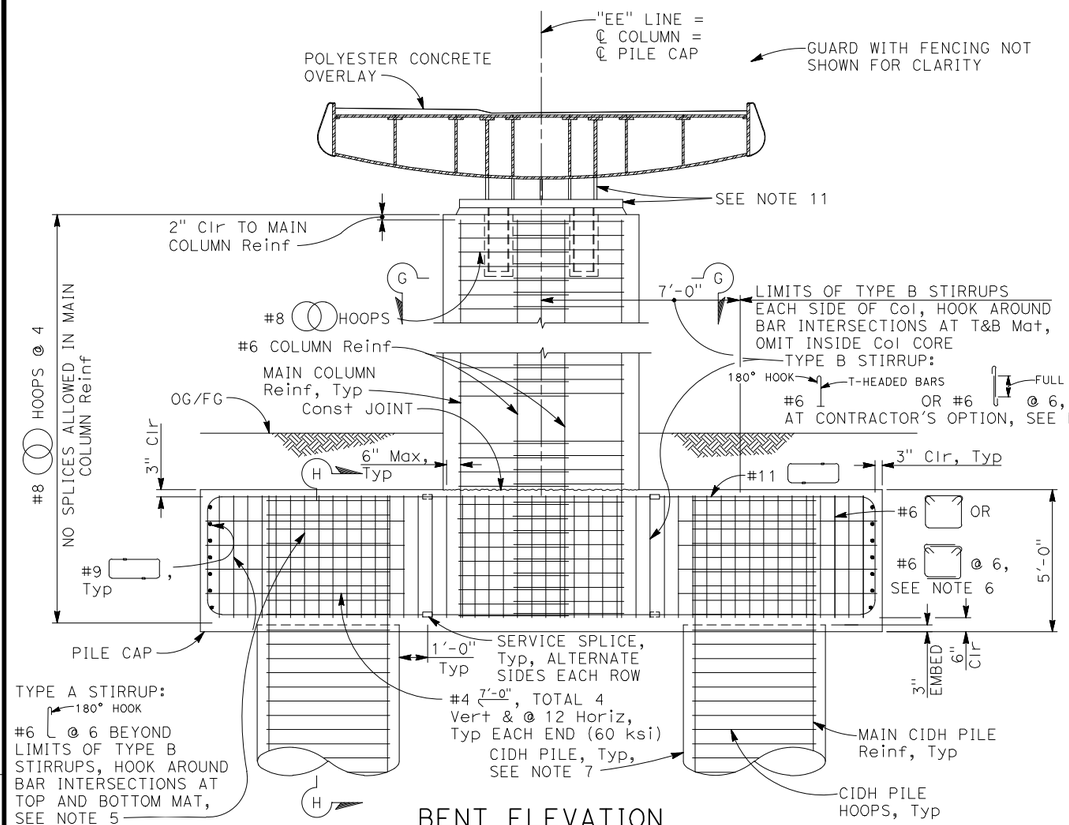
BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
BENT 4-6 & 9-10 LAYOUT

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)
DATE PLOTTED => May 01, 2025 TIME PLOTTED => 4:53pm
FILE => 2018057SRB_S18.dwg USERNAME => SMH
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3
PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340
DISREGARD PRINTS BEARING EARLIER REVISION DATES

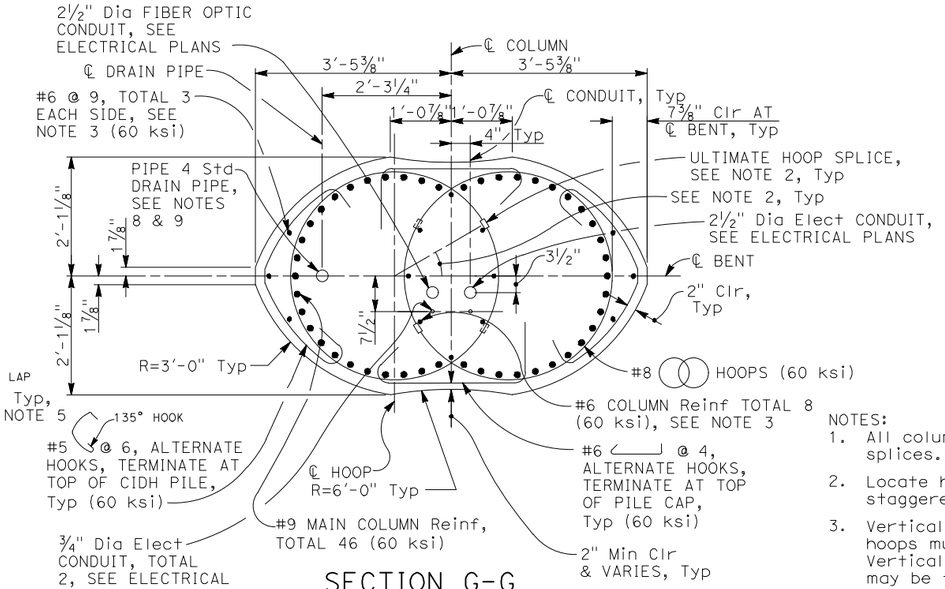
REVISION DATES				SHEET	OF
6-10-22		2-21-25	10-4-24	18	117

(2018057SRB_S18) 2018057



BENT ELEVATION

3/8" = 1'-0"

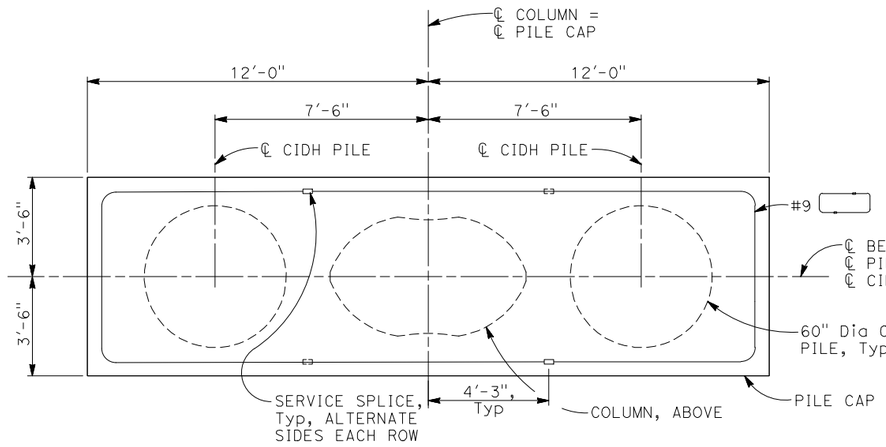


SECTION G-G

¾" = 1'-0"

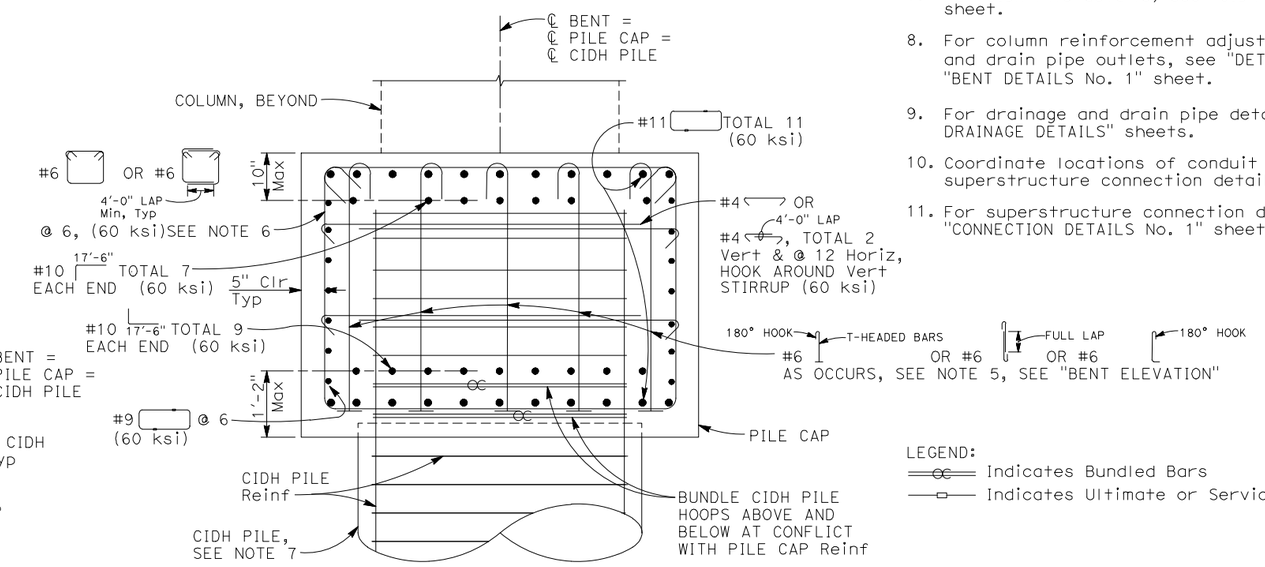
NOTES:

1. All column hoops must utilize ultimate butt splices.
2. Locate hoop splice within hoop interlock region, staggered at ±30° of ℄ bent, measured from ℄ hoop.
3. Vertical #6 bars outside of column interlocking hoops must be terminated at top of pile cap. Vertical #6 bars within column interlocking hoops may be terminated at top of pile cap at the Contractor's option.
4. All pile cap reinforcing not shown.
5. Type A and B stirrups, including T-Headed bars, must be 60 ksi.
6. Lap splices in pile cap stirrup reinforcing must be limited to region of pile cap within column width.
7. For CIDH Pile details, see "CIDH PILE DETAILS No. 2" sheet.
8. For column reinforcement adjustments at conduit and drain pipe outlets, see "DETAIL 6" on "BENT DETAILS No. 1" sheet.
9. For drainage and drain pipe details, see "DECK DRAINAGE DETAILS" sheets.
10. Coordinate locations of conduit and drain pipe with superstructure connection details.
11. For superstructure connection details, see "CONNECTION DETAILS No. 1" sheet.



PILE CAP PLAN

3/8" = 1'-0"



SECTION H-H

¾" = 1'-0"

LEGEND:

- Indicates Bundled Bars
- Indicates Ultimate or Service Splice, as noted

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	124	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — DANIEL S ROSELLINI — No. C79105 — Exp.3/31/26 — CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

Robert Dos
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
BENT 7 LAYOUT

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

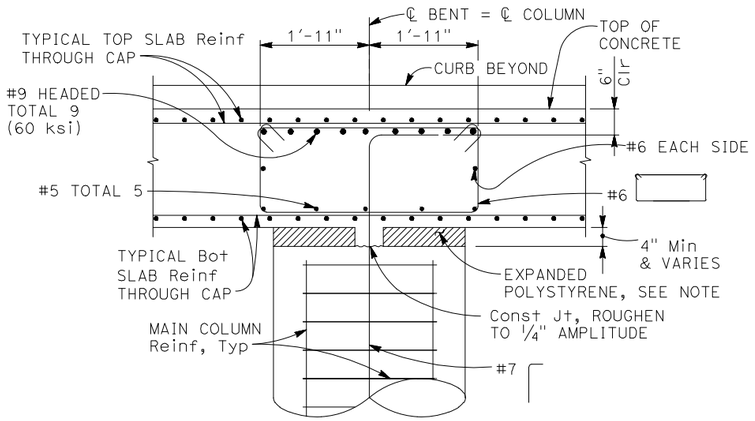
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES

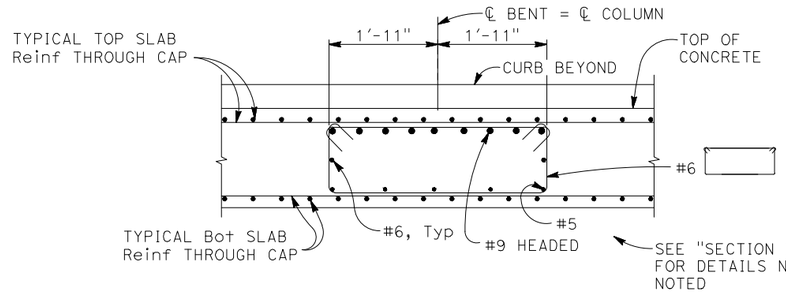
REVISION DATES				SHEET	OF
6-10-22		2-21-25	10-4-24	19	117

(2018057SRB_S19)



SECTION I-I

3/4" = 1'-0"

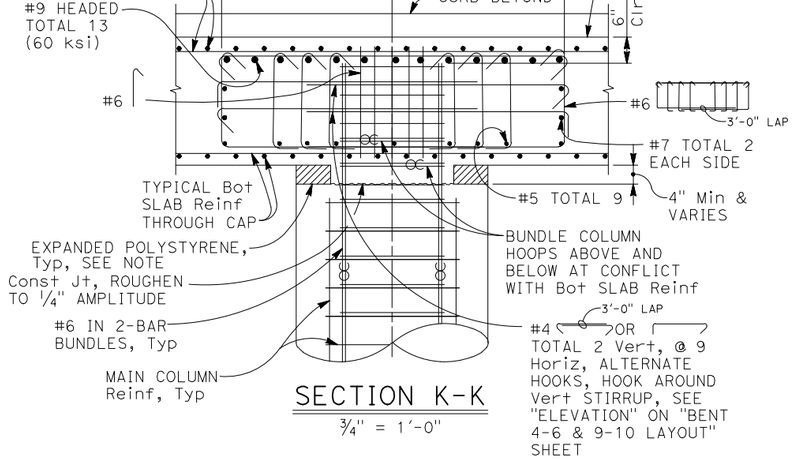


SECTION J-J

3/4" = 1'-0"

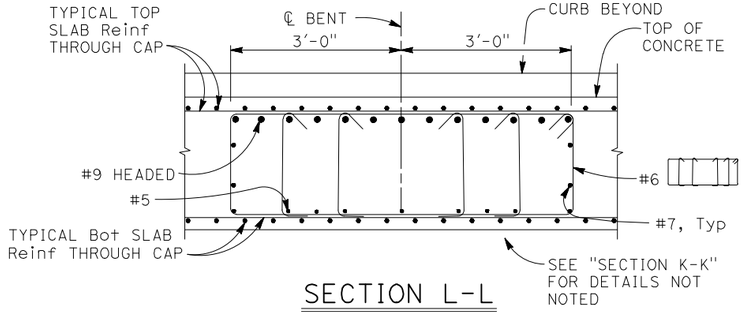
NOTE:
Remove expanded polystyrene after construction of superstructure.

LEGEND:
Indicates Bundled Bars



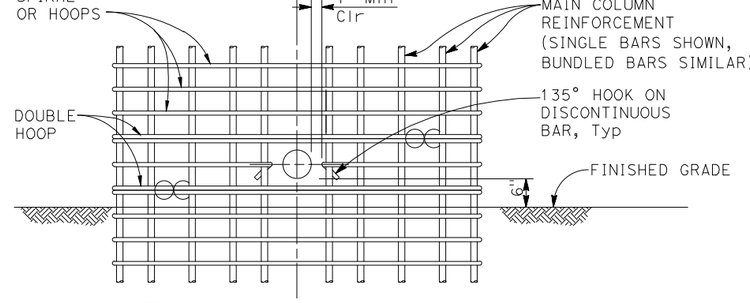
SECTION K-K

3/4" = 1'-0"



SECTION L-L

3/4" = 1'-0"



NOTE:
Adjust spacing of main column Reinf to clear conduit or drain outlet.

DETAIL 6

NO SCALE

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	125	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — DANIEL S ROSELLINI — No. C79105 — Exp.3/31/26 — CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
BENT DETAILS No. 1

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 4:54pm
FILE => 2018057SRB_520.dwg USERNAME => SMH
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES: 6-10-22 | 1-10-23 | 6-28-24 | 10-4-24

SHEET 20 OF 117

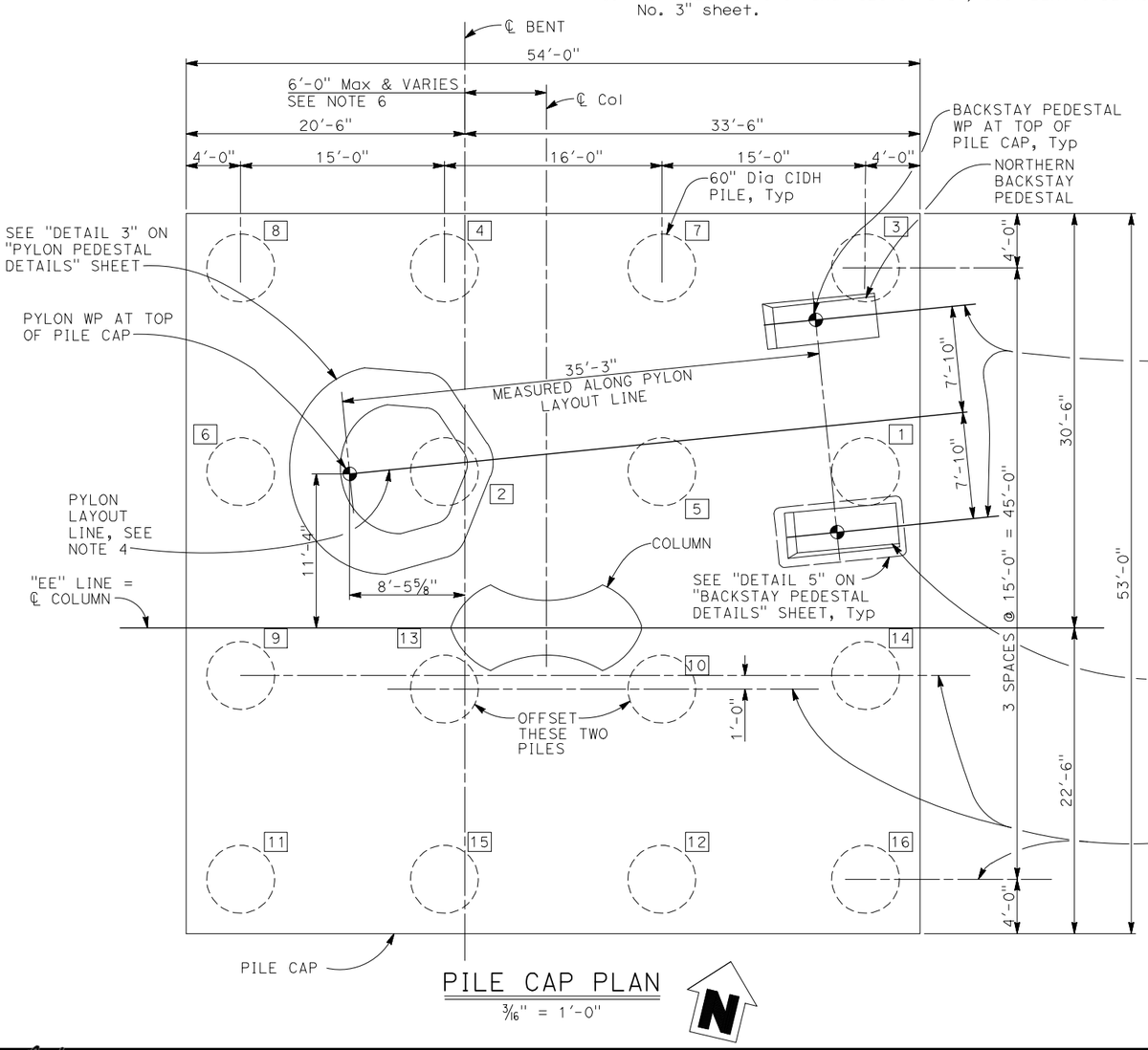
2018057 (2018057SRB_520)

LEGEND:

[1] Indicates construction sequence for CIDH piles. An alternate sequence may be submitted to the Engineer for review and approval. Adjacent CIDH piles must not be open excavations at the same time. Do not drill holes or install temporary casing for an adjacent pile until 24 hours have elapsed after concrete placement in the preceding pile and the concrete attains at least 1800 psi compressive strength at the time of drilling or temporary casing installation.

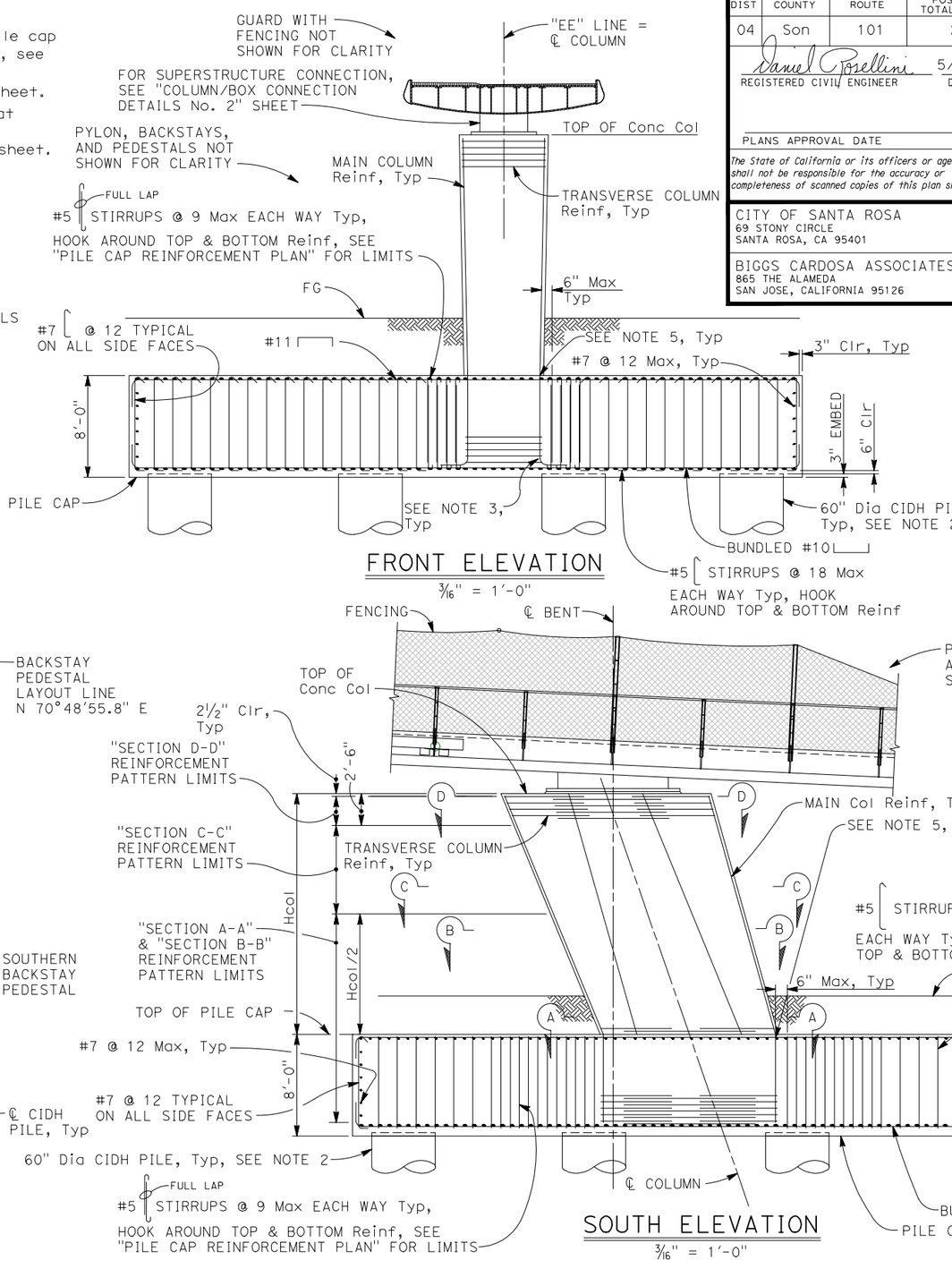
NOTES:

1. All pile cap reinforcing not shown. For additional pile cap reinforcing details and "PILE CAP REINFORCEMENT PLAN", see "BENT 8 DETAILS No. 1" sheet.
2. For CIDH Pile details, see "CIDH PILE DETAILS No. 2" sheet.
3. Bottom of main column reinforcement may be hooked at Contractor's option.
4. For pylon layout line bearing, see "FOUNDATION PLAN" sheet.
5. Bend column reinforcement at bottom of column for vertical embedment into the pile cap. Top of bend must be located at the top of pile cap top mat reinforcement.
6. For distance of ℄ column and ℄ Bent along height of column, see "BENT 8 DETAILS" sheets. must be located at the top of pile cap.
7. For "SECTION A-A" and "SECTION B-B", see "BENT 8 DETAILS No. 2" sheet.
8. For "SECTION C-C" and "SECTON D-D", see "BENT 8 DETAILS No. 3" sheet.



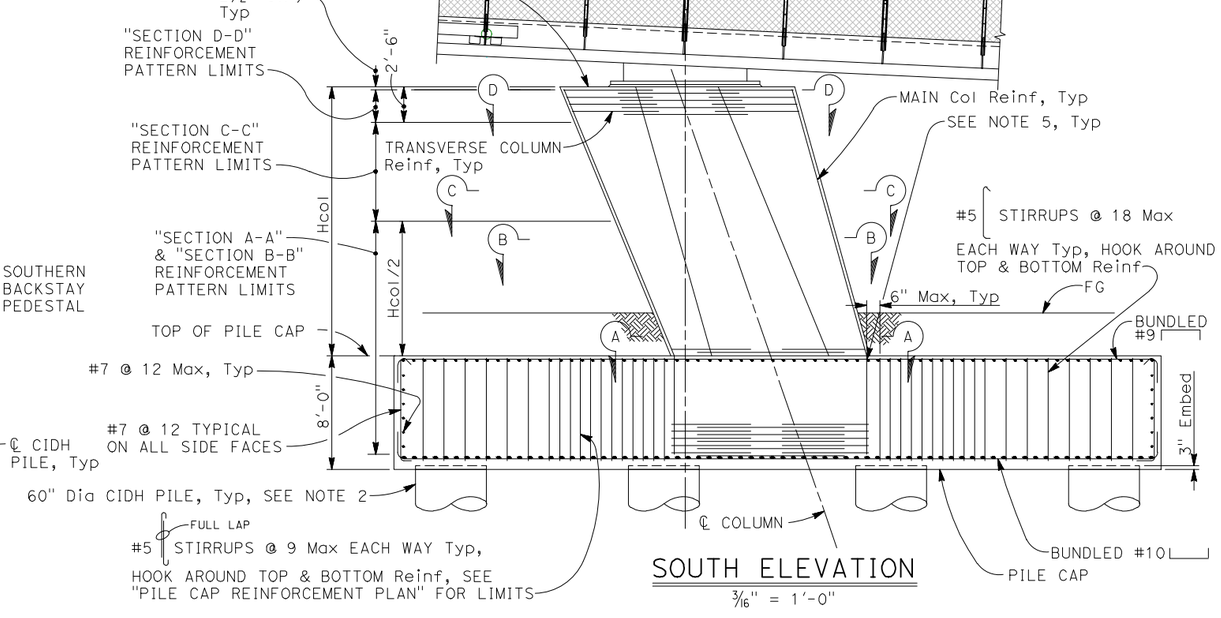
PILE CAP PLAN

3/16" = 1'-0"



FRONT ELEVATION

3/16" = 1'-0"



SOUTH ELEVATION

3/16" = 1'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	126	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

Robert A. Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Bodemar	D. Devlin
DETAILS	J. Bodemar	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
BENT 8 LAYOUT

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

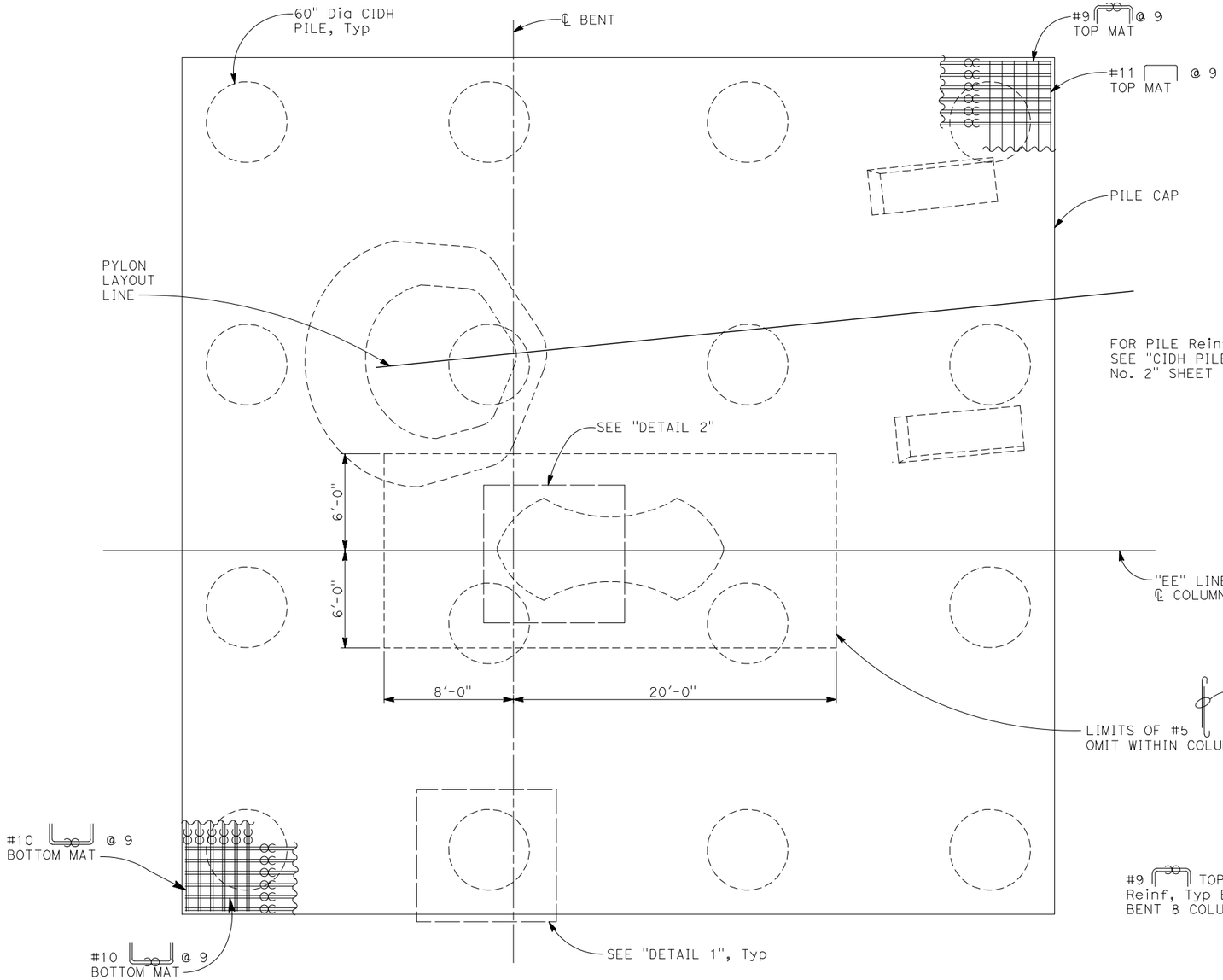
DATE PLOTTED => May 01, 2025 TIME PLOTTED => 4:54pm
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES: 6-10-22 | 2-21-25 | 10-4-24

SHEET 21 OF 117

2018057 (2018057SRB_521)

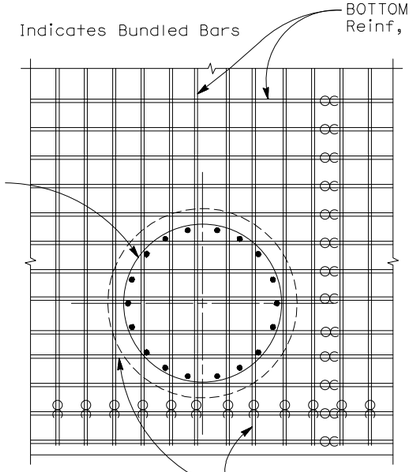


PILE CAP REINFORCEMENT PLAN

1/4" = 1'-0"

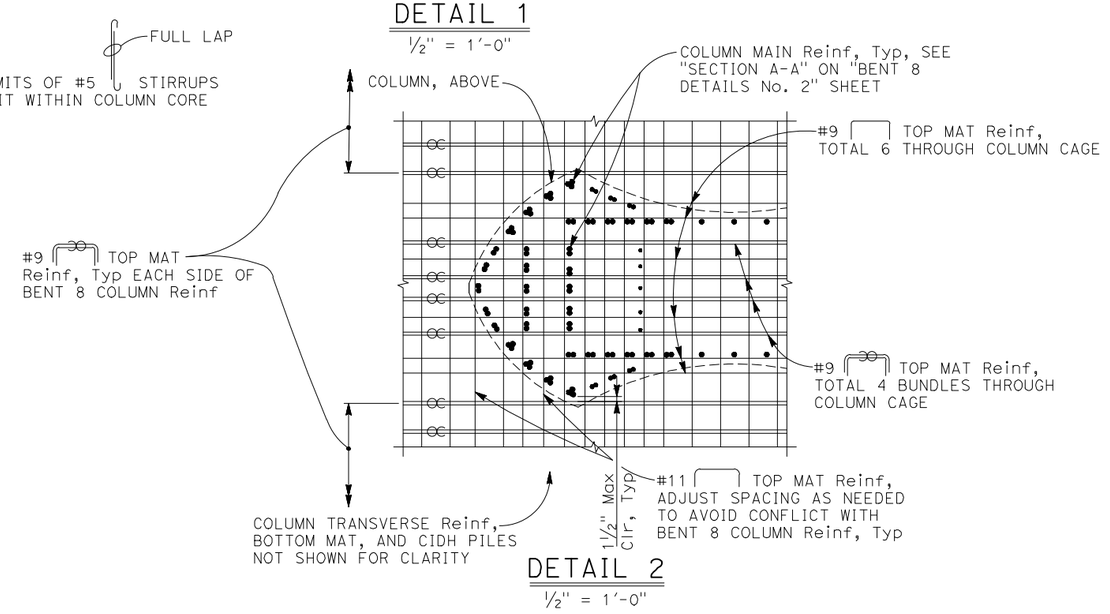
NOTES:
1. No splices permitted in pile cap reinforcing.
2. All pile cap reinforcing not shown.
3. For pylon and backstay pedestal reinforcement and anchor rods, see "BACKSTAY PEDESTAL DETAILS" and "PYLON PEDESTAL DETAILS" sheets.
4. For pylon layout line details, see "BENT 8 LAYOUT" sheet.
5. For top mat reinforcement adjustments at pylon pedestal and backstay pedestals, see "PYLON PEDESTAL DETAILS" and "BACKSTAY PEDESTAL DETAILS" sheets, respectively.

LEGEND:
CC Indicates Bundled Bars



DETAIL 1

1/2" = 1'-0"



DETAIL 2

1/2" = 1'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	127	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp. 3/31/26 CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

Robert Dees
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Bodemar	D. Devlin
DETAILS	J. Bodemar	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
BENT 8 DETAILS No. 1

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 4:54pm
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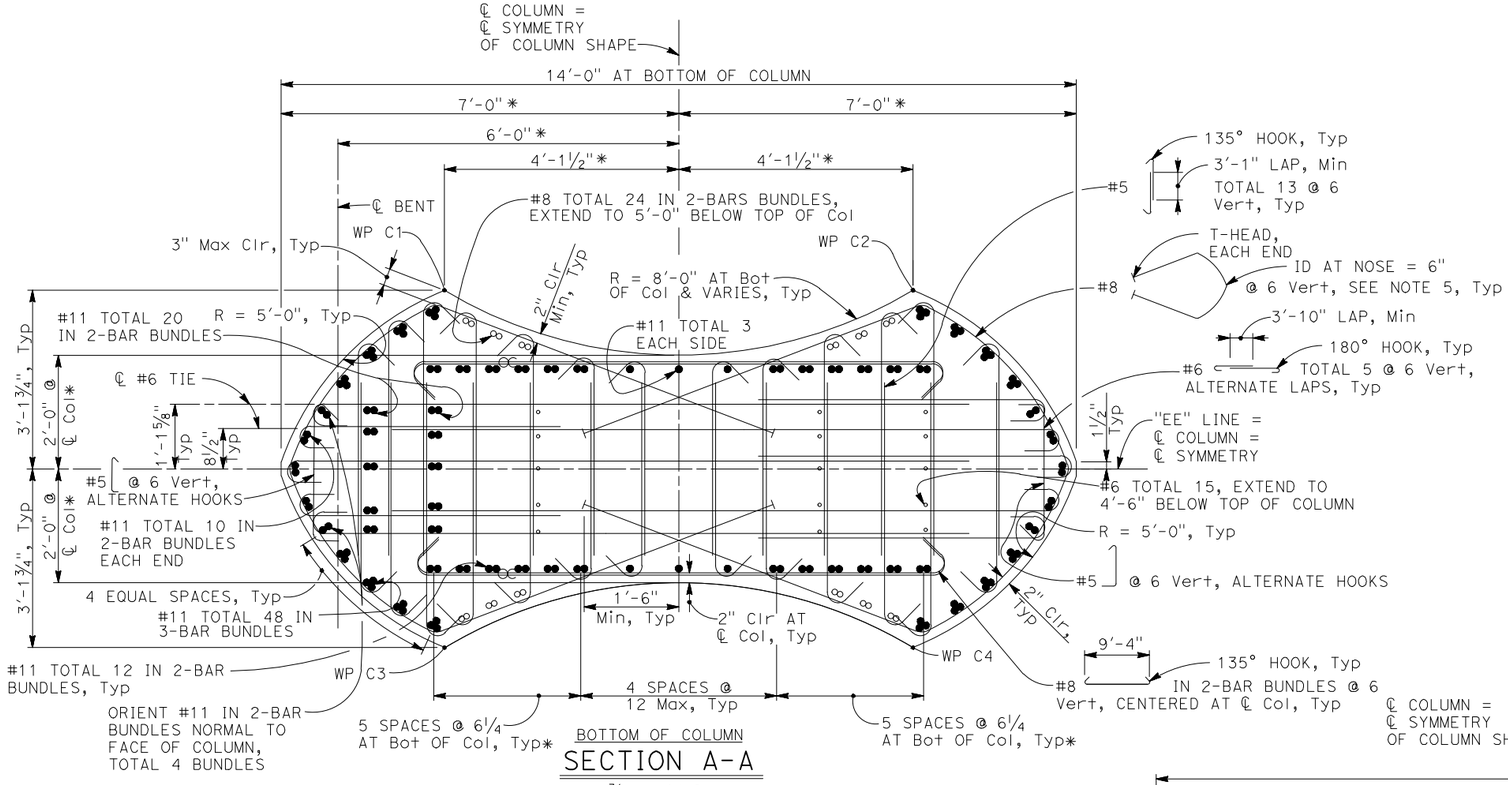
PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES

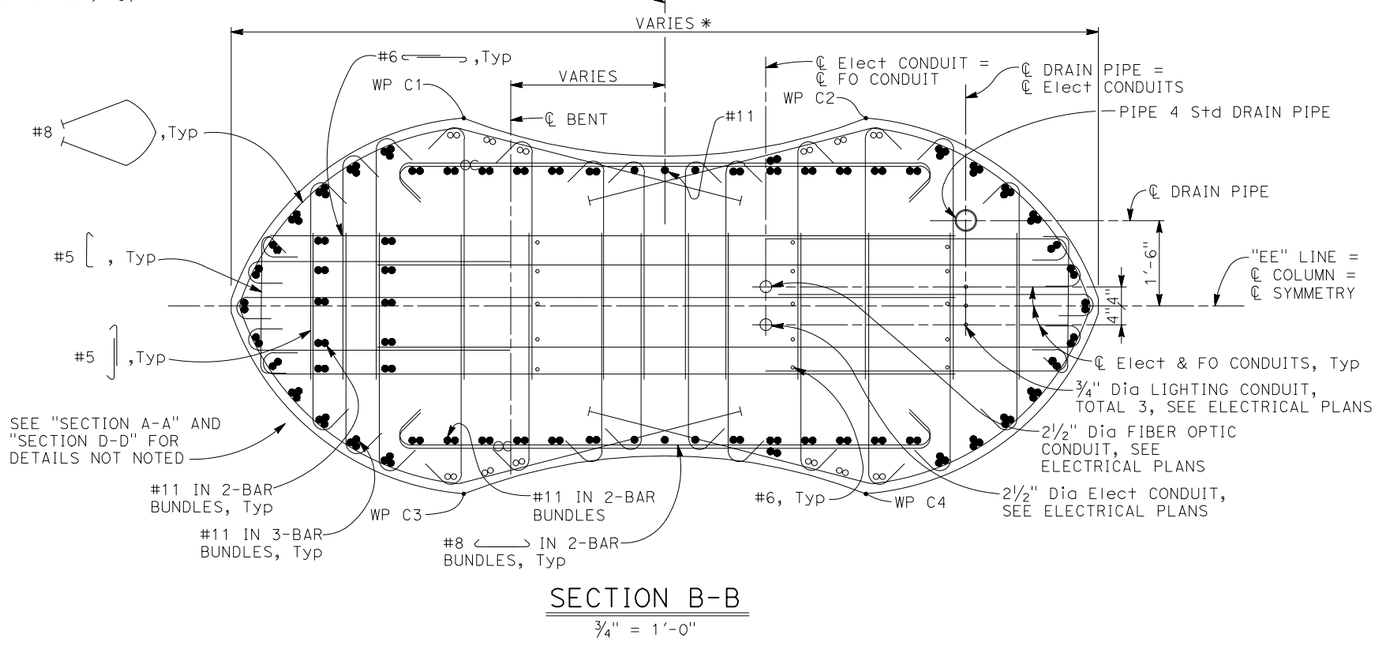
REVISION DATES			
6-10-22		2-21-25	10-4-24

SHEET	OF
22	117

(2018057SRB_S22)
2018057



NOTES:
1. No splice permitted in main column reinforcing.
2. Unless otherwise noted, column reinforcement is continuous over the full height of the column and in pile cap.
3. Dimensions designated by * vary linearly between top of column and bottom of column.
4. For "SECTION D-D", see "BENT 8 DETAILS No. 3" sheet.
5. T-Headed bars must be 60 ksi.



SECTION B-B
¾" = 1'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	128	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

Robert Peo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Bodemar	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
BENT 8 DETAILS No. 2

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 4:54pm
FILE => 2018057SRB_S23.dwg USERNAME => SMH
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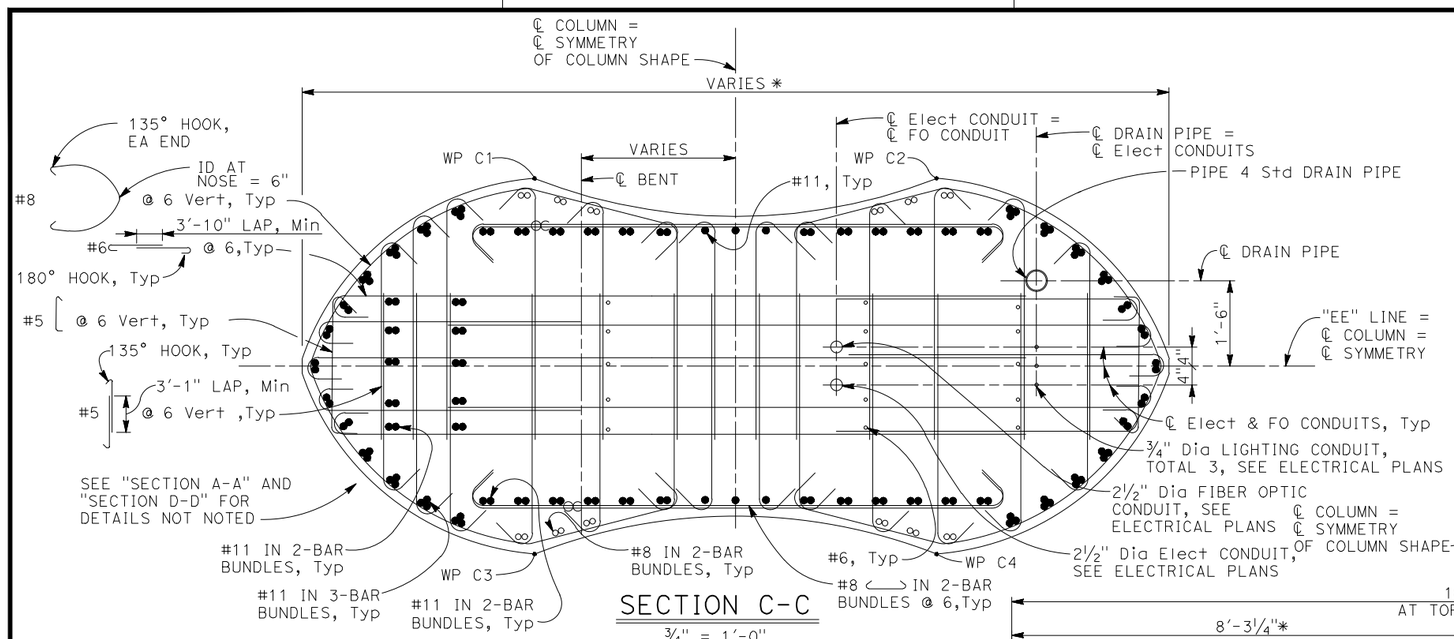
PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES			
6-10-22		2-21-25	5-2-25

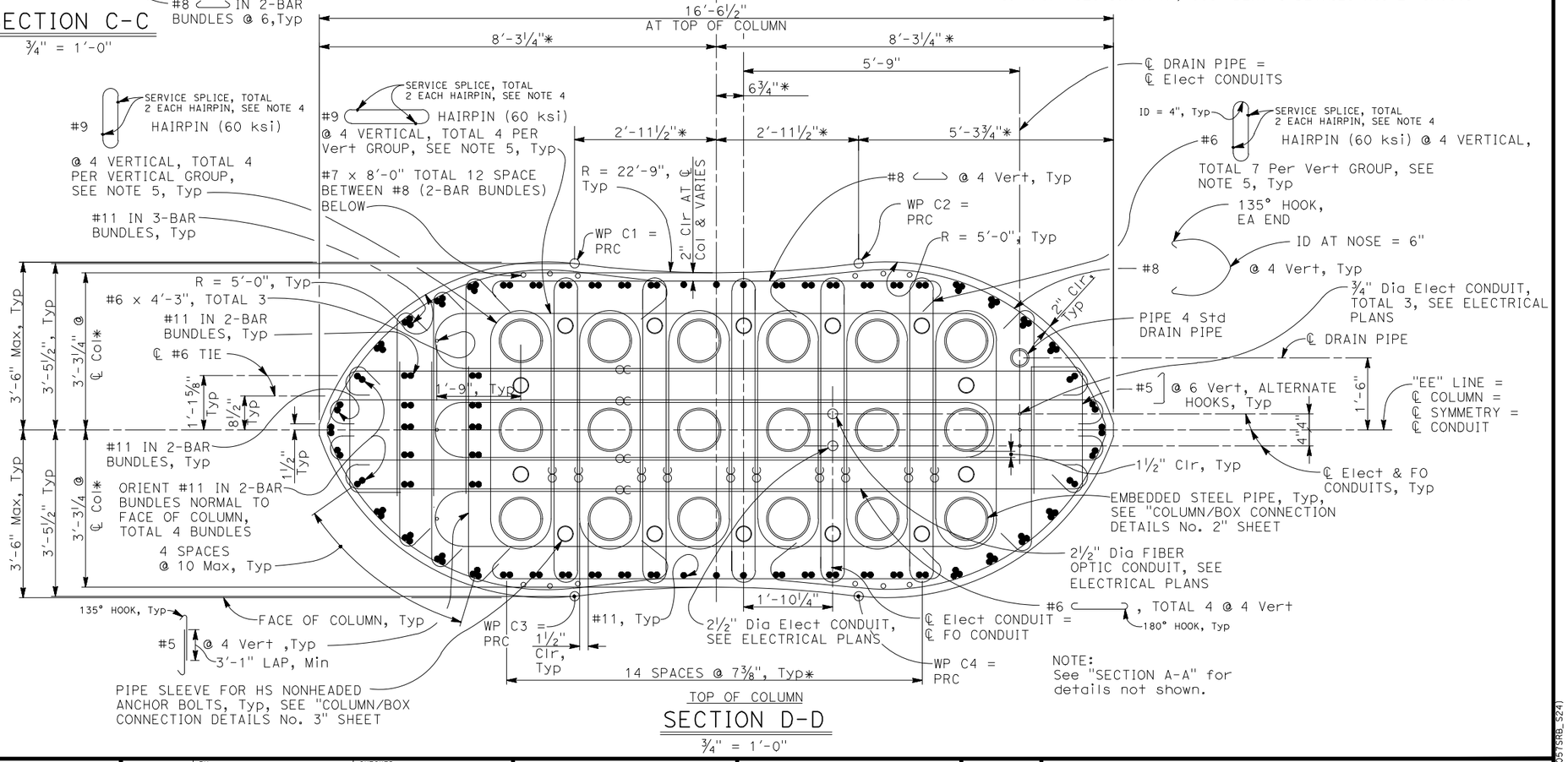
SHEET 23 OF 117

2018057 (2018057SRB_S23)



SECTION C-C

¾" = 1'-0"



SECTION D-D

¾" = 1'-0"

NOTES:
1. No splice permitted in main column reinforcing.
2. Unless otherwise noted, column reinforcement is continuous over the full height of the column and in the pile cap.
3. Dimensions designated by * vary linearly between top of column and bottom of column.
4. Service splice in hairpins must be complete joint penetration welds complying with AWS D1.4. Alternate splice locations each row. At the Contractor's option, hairpin may be fabricated with a single service splice.
5. Top hairpin must be located 2½" clear of top of column.
6. For "SECTION A-A", see "BENT 8 DETAILS No. 2" sheet.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	129	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp. 3/31/26 CIVIL STATE OF CALIFORNIA

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

Robert Reo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Bodemar	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
BENT 8 DETAILS No. 3

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 4:54pm
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES		
6-10-22	2-21-25	5-2-25

SHEET 24 OF 117

2018057SRB_524

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	130	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER DATE

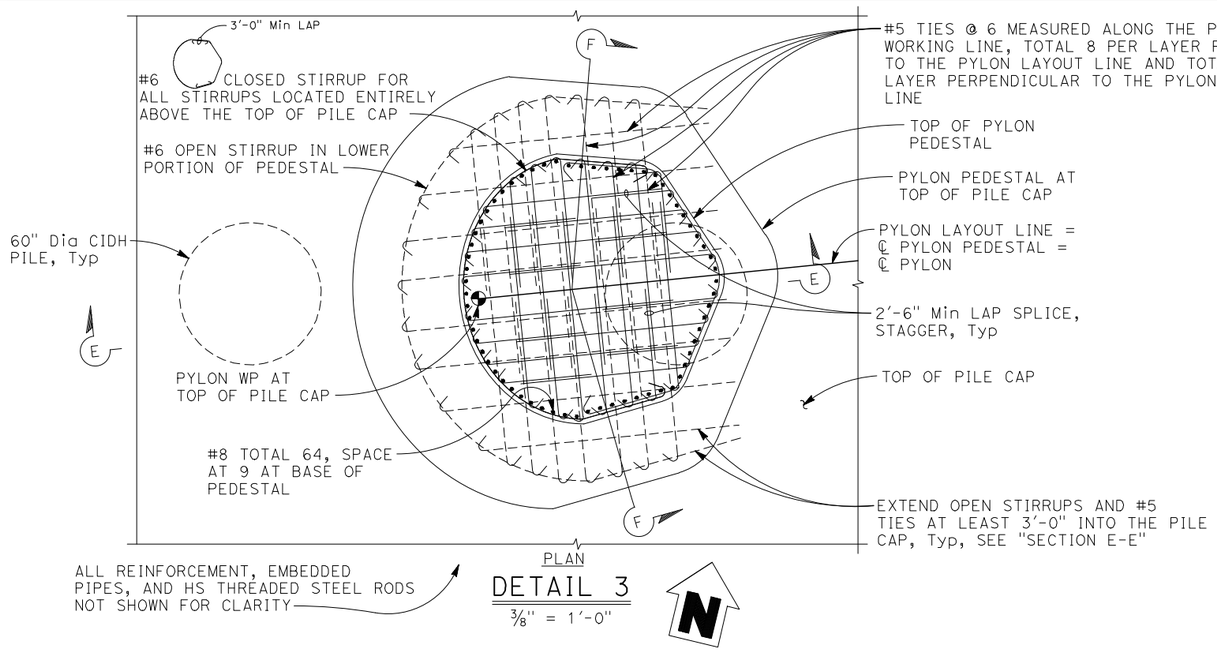
REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

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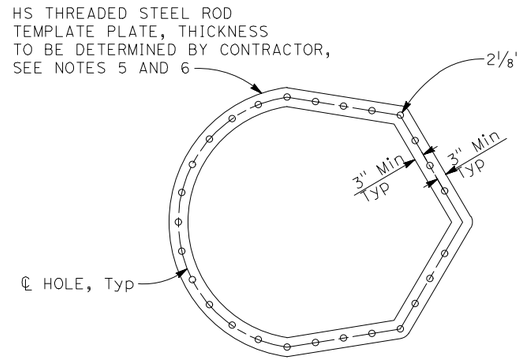
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126



ALL REINFORCEMENT, EMBEDDED PIPES, AND HS THREADED STEEL RODS NOT SHOWN FOR CLARITY

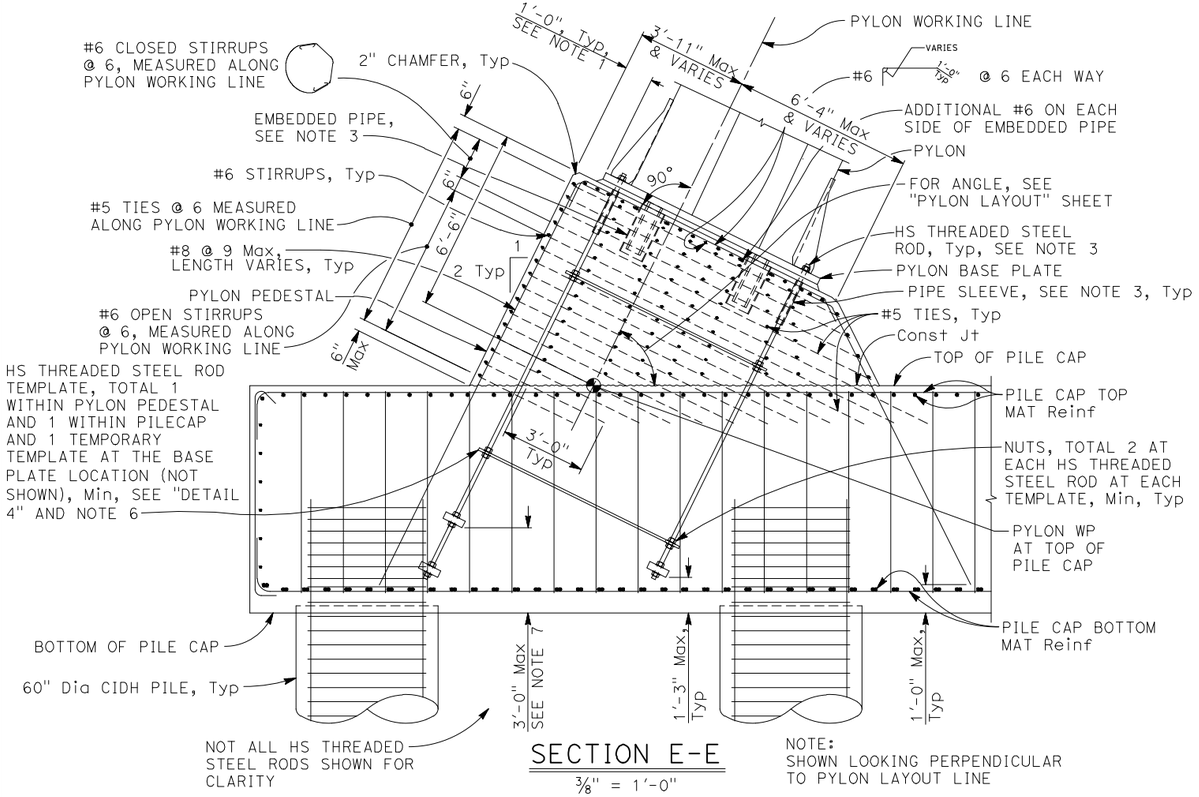
DETAIL 3
3/8" = 1'-0"



DETAIL 4
1/2" = 1'-0"

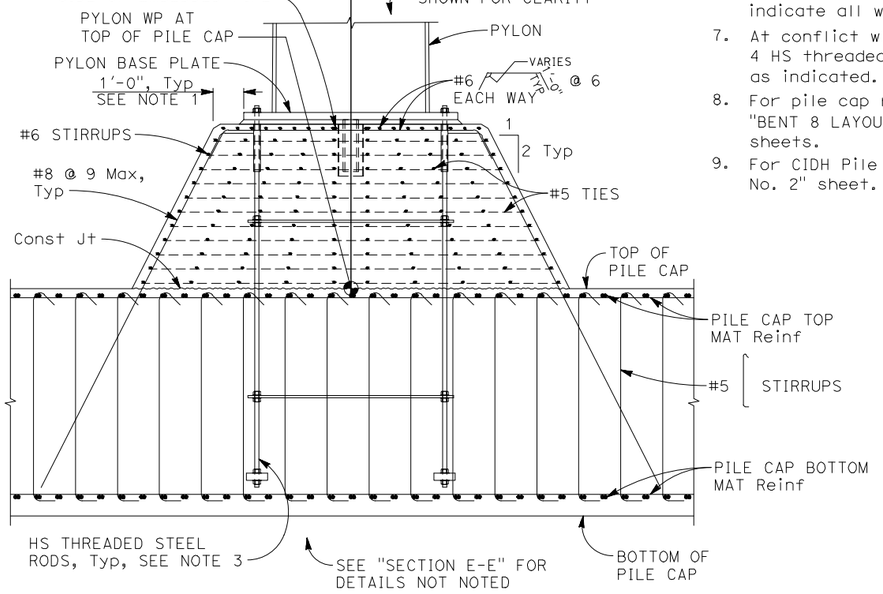
NOTES:

1. Measured perpendicular to the edge of the pylon base plate. See "PYLON DETAILS No. 2" sheet for base plate dimensions.
2. For pylon working line layout, see "SIDE ELEVATION" on "PYLON LAYOUT" sheet.
3. For details of the pylon base plate, HS threaded steel rods, pipe sleeves, embedded pipes, shear keys, and anchor plates, see "PYLON DETAILS No. 2" sheet.
4. For pylon layout line definition, see "BENT 8 LAYOUT" sheet.
5. Template must match base plate HS threaded steel rod pattern.
6. The Contractor is responsible for ensuring that proper support, location, alignment, and stability of HS threaded steel rods are maintained for all stages of construction. Template details shown indicate general means of providing alignment of HS threaded steel rods and do not necessarily indicate all work required.
7. At conflict with pile reinforcement, up to 4 HS threaded steel rods may be shortened as indicated.
8. For pile cap reinforcement details, see "BENT 8 LAYOUT" and "BENT 8 DETAILS No. 2" sheets.
9. For CIDH Pile details, see "CIDH PILE DETAILS No. 2" sheet.



SECTION E-E
3/8" = 1'-0"

NOTE:
SHOWN LOOKING PERPENDICULAR TO PYLON LAYOUT LINE



SECTION F-F
3/8" = 1'-0"

DESIGN	BY J. Bodemar	CHECKED D. Devlin	
DETAILS	BY J. Bodemar	CHECKED D. Devlin	
QUANTITIES	BY A. Notaro	CHECKED F. Franco	

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
PYLON PEDESTAL DETAILS

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

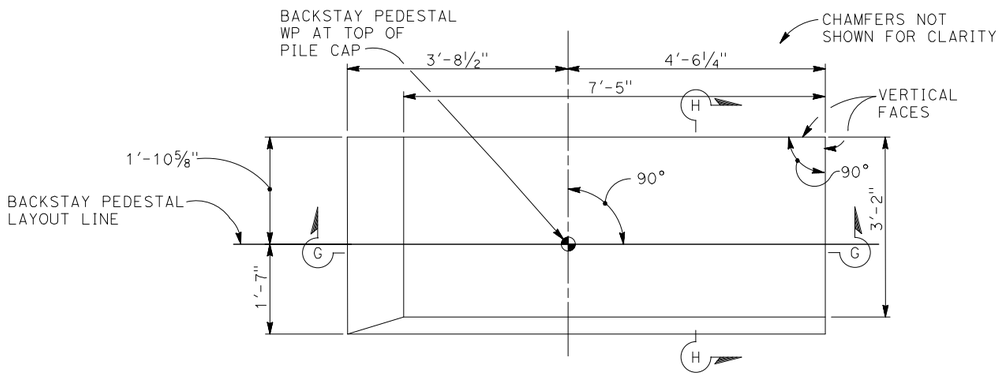
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES

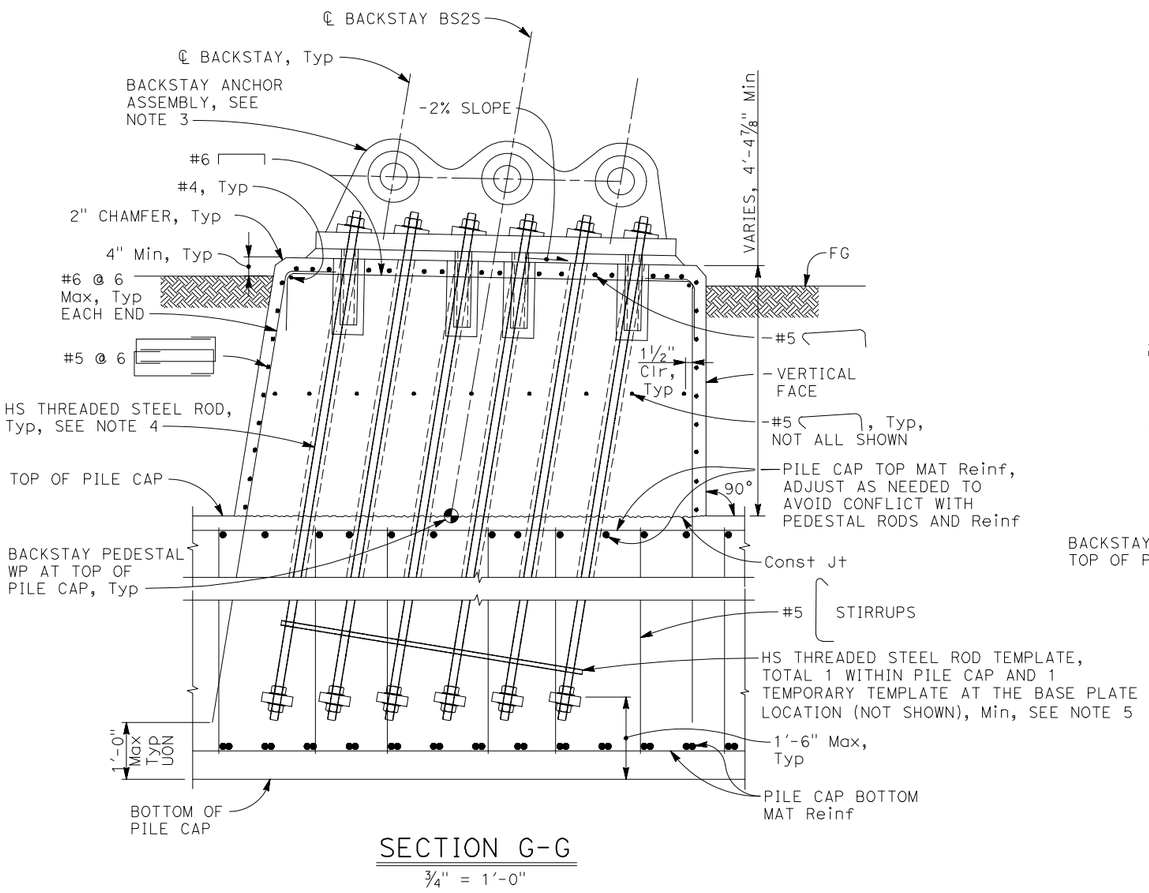
REVISION DATES			SHEET	OF
6-10-22	2-24-25	5-2-25	25	117

2018057 (2018057SRB_S25)



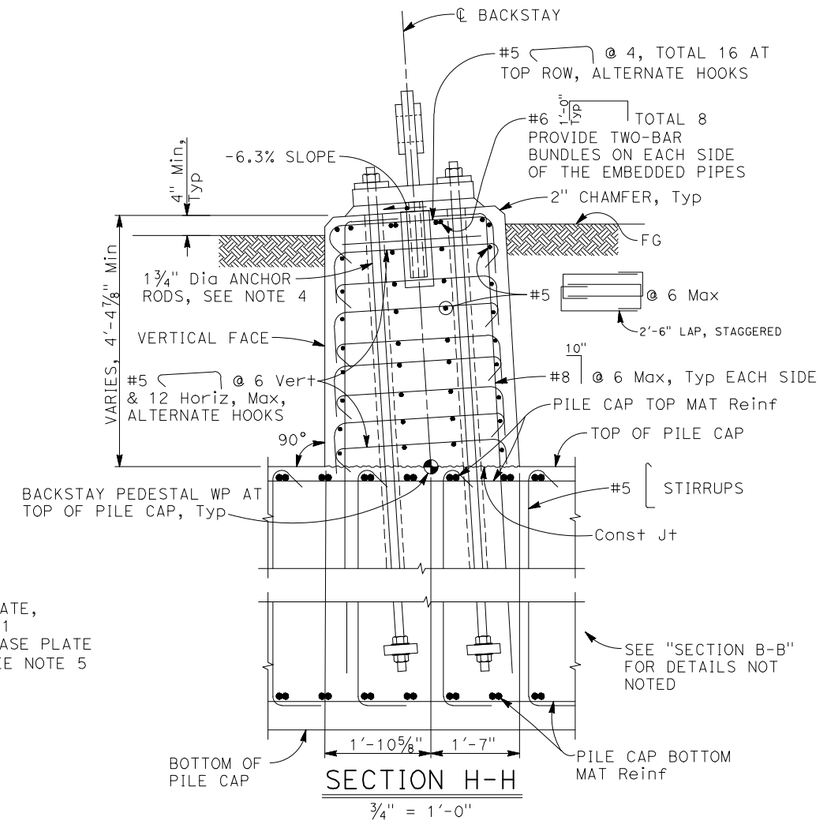
DETAIL 5

¾" = 1'-0"



SECTION G-G

¾" = 1'-0"



SECTION H-H

¾" = 1'-0"

NOTES:

1. Southern backstay pedestal details shown. Northern backstay pedestal details similar.
2. For backstay pedestal layout line and backstay pedestal WP at top of pile cap definitions, see "BENT 8 LAYOUT" sheet.
3. For backstay anchor assembly details, see "BACKSTAY ANCHOR ASSEMBLY DETAILS" sheet.
4. For HS threaded steel rod layout and details, see "BACKSTAY ANCHOR ASSEMBLY DETAILS" sheet.
5. Template must match base plate HS threaded rod pattern and must use 2 1/8" diameter holes. The Contractor is responsible for ensuring that proper support, location, alignment, and stability of the HS threaded steel rods, PT ducts, and embedded pipes are maintained for all stages of construction. Template shown indicates general means of providing alignment of HS threaded steel rods and do not necessarily indicate all work required. Contractor must submit temporary support, bracing, template, and other pertinent working drawings with supporting calculations for acceptance by the Engineer.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	131	247

Daniel Rosellini 5/2/25
REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

Robert Peo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Bodemar	D. Devlin
DETAILS	J. Bodemar	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
BACKSTAY PEDESTAL DETAILS

STRUCTURES DESIGN DETAIL SHEET
(ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 4:55pm
FILE => 2018057SRB_S26.dwg USERNAME => SMH
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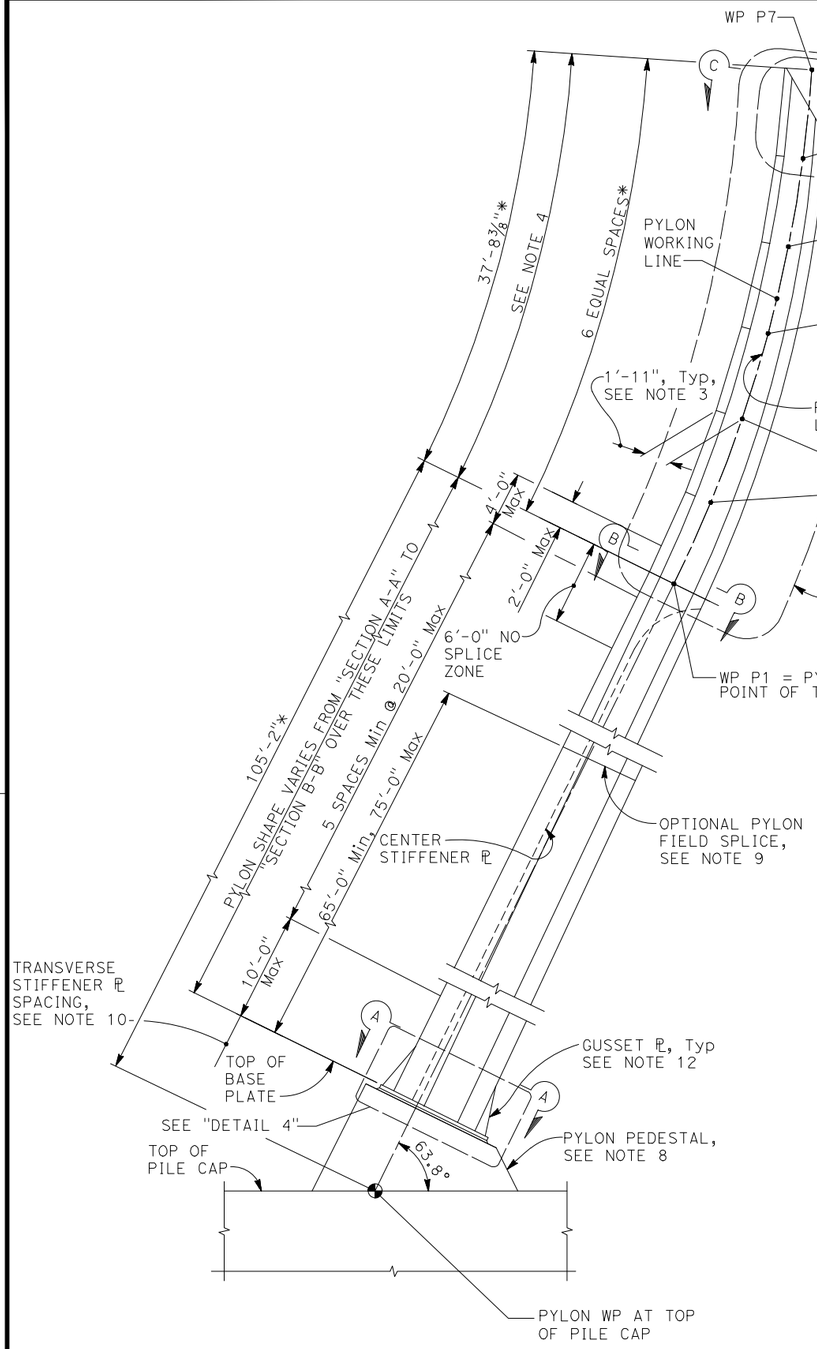
PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 6-10-22 | 1-10-23 | 6-28-24

SHEET 26 OF 117

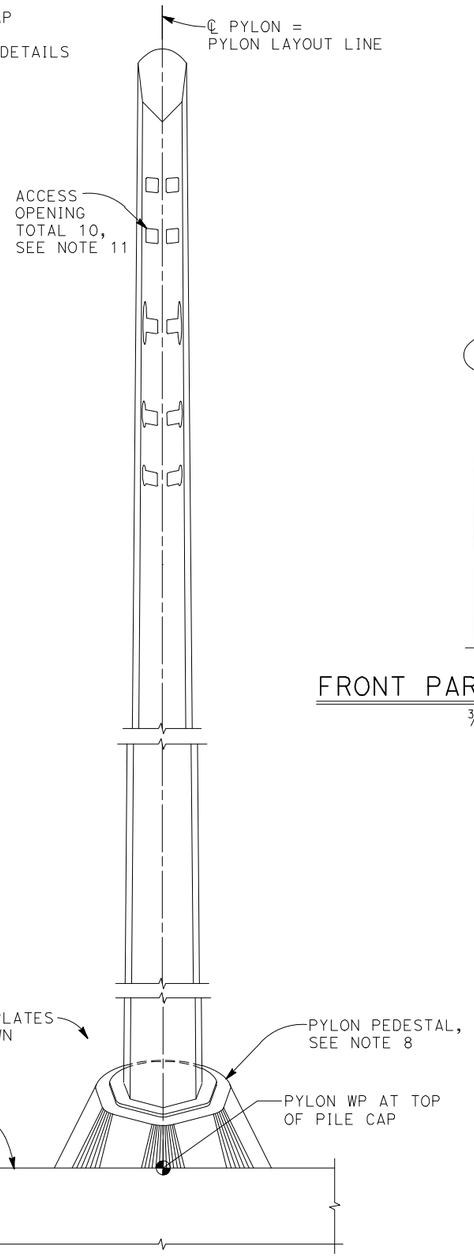
2018057 (2018057SRB_S26)



NOTE: SHOWN LOOKING PERPENDICULAR TO PYLON LAYOUT LINE

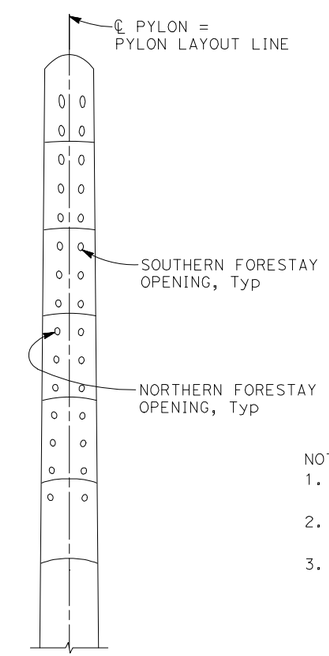
SIDE ELEVATION

3/16" = 1'-0"



BACK ELEVATION

3/16" = 1'-0"



FRONT PARTIAL ELEVATION

3/16" = 1'-0"

NOTES:

1. For pylon layout line definition, see "BENT 8 LAYOUT" sheet.
2. Dimensions designated by * are measured along the pylon working line.
3. Dimension from exterior face of curved front plate to pylon working line at WP P1 through WP P7 shown. Dimension varies between each pair of work points such that the centerline of the curved front plate is a straight line between each pair of work points.
4. Pylon shape varies from "SECTION B-B" to "SECTION C-C" over these limits. "SECTION C-C" is taken from the projected shape of the pylon cross section at WP P7.
5. For "SECTION A-A", "SECTION B-B", "SECTION C-C", and "DETAIL 1", see "PYLON DETAILS No. 1" sheet.
6. For "DETAIL 4", see "PYLON DETAILS No. 2" sheet.
7. For "DETAIL 8", see "PYLON DETAILS No. 3" sheet.
8. For pylon pedestal details, see "PYLON PEDESTAL DETAILS" sheet.
9. At Contractor's option, one pylon field splice may be constructed within the limits shown. Splice work must be completed prior to erection of pylon. Welded connection must be complete joint penetration butt welds and ground smooth and flush and blended to provide a smooth transition to the connected surfaces. Additional transverse stiffener plates must be constructed at 2'-0" maximum from each side of optional pylon field splice.
10. For transverse stiffener plate details, see "SECTION A-A" on "PYLON DETAILS No. 1" sheet.
11. For access opening details, see "PYLON DETAILS No. 6" sheet.
12. For gusset plate details, see "PYLON DETAILS No. 2" sheet.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	132	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Bodemar	D. Devlin
DETAILS	J. Bodemar	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
PYLON LAYOUT

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 4:55pm
FILE => 2018057SRB_527.dwg USERNAME => SMH

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES: 6-10-22 | 2-21-25 | 10-4-24

SHEET 27 OF 117

2018057 (2018057SRB_527)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	133	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER DATE

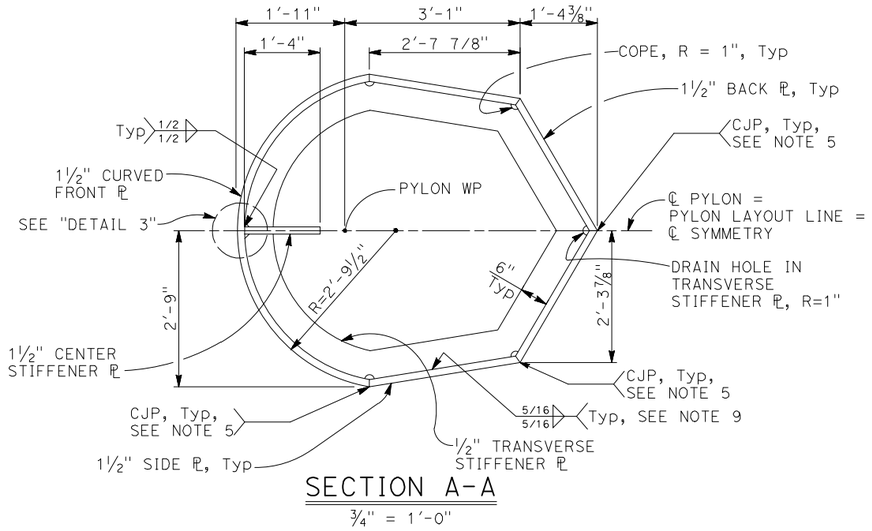
PLANS APPROVAL DATE

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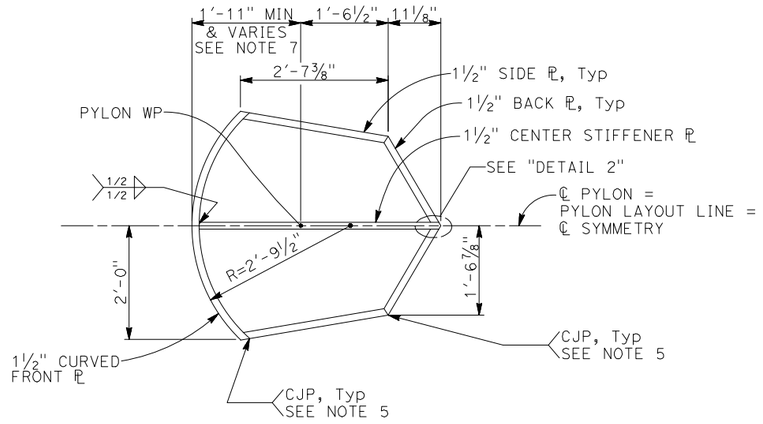
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865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

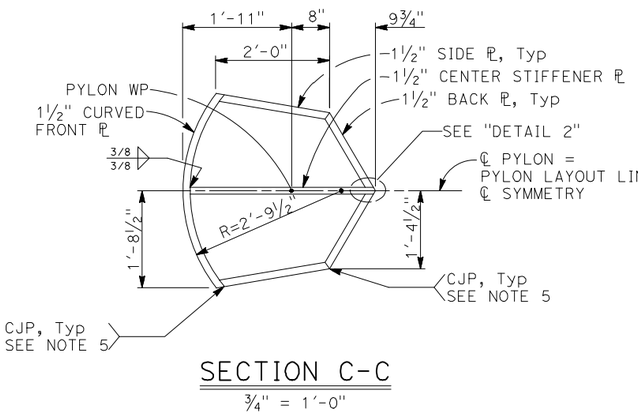


SECTION A-A
¾" = 1'-0"

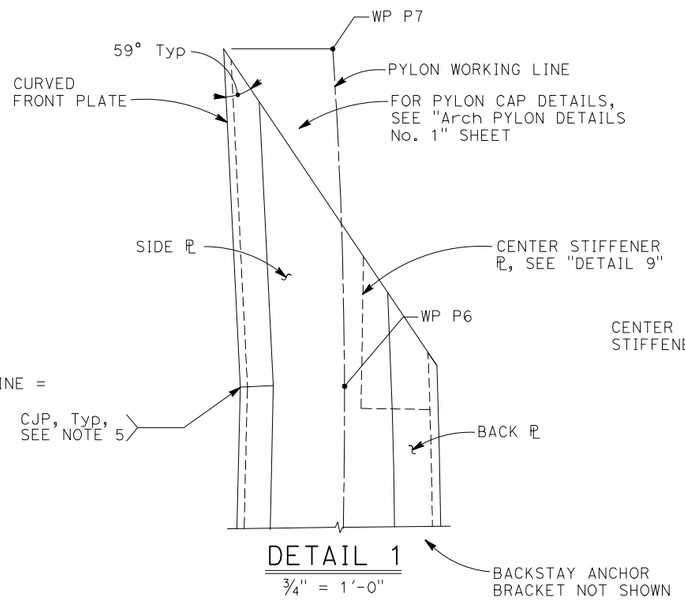


SECTION B-B
¾" = 1'-0"

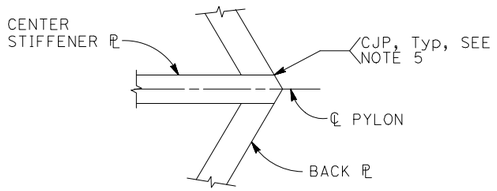
NOTES:
1. Sections are taken normal to pylon working line.
2. "PYLON WP" defines location of the pylon working line at each section.
3. For pylon working line layout, see "SIDE ELEVATION" on "PYLON LAYOUT" sheet.
4. For pylon layout line definition, see "BENT 8 LAYOUT" sheet.
5. CJP welds must be ground smooth and flush with the pylon exterior surface and shape.
6. Unless otherwise noted, dimensions are measured normal to pylon working line.
7. Dimension at WP P1 through WP P7 shown. Dimension varies between each pair of work points such that the curved front plate layout is a straight line between each pair of work points. For WP 1 through WP 7 definitions see "SIDE ELEVATION" on "PYLON LAYOUT" sheet.
8. For "DETAIL 9", see "PYLON DETAILS No. 3" sheet.
9. Terminate weld of transverse stiffener plate to pylon curved front plate, side plates, and back plates a distance of ¼" from copes in transverse stiffener plate.
10. Offset welded joint locations in stiffener plates and pylon plates to extent possible to avoid overlapping welds.



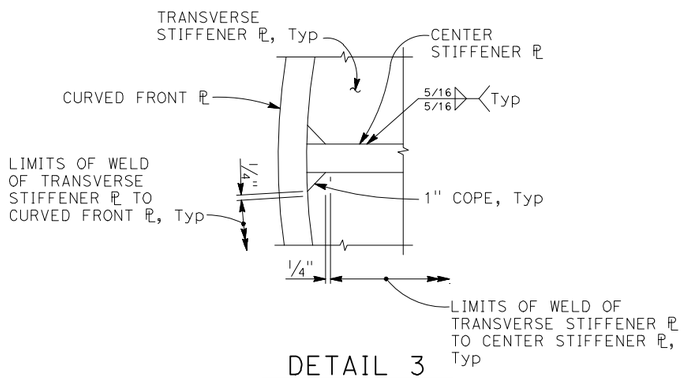
SECTION C-C
¾" = 1'-0"



DETAIL 1
¾" = 1'-0"



DETAIL 2
3" = 1'-0"



DETAIL 3
3" = 1'-0"

Robert Reo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Bodemar	D. Devlin
DETAILS	J. Bodemar	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
PYLON DETAILS No. 1

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 4:56pm
FILE => 2018057SRB_S28.dwg USERNAME => SMH
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
6-10-22		2-21-25	10-4-24	28	117

(2018057SRB_S28) 2018057

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	134	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

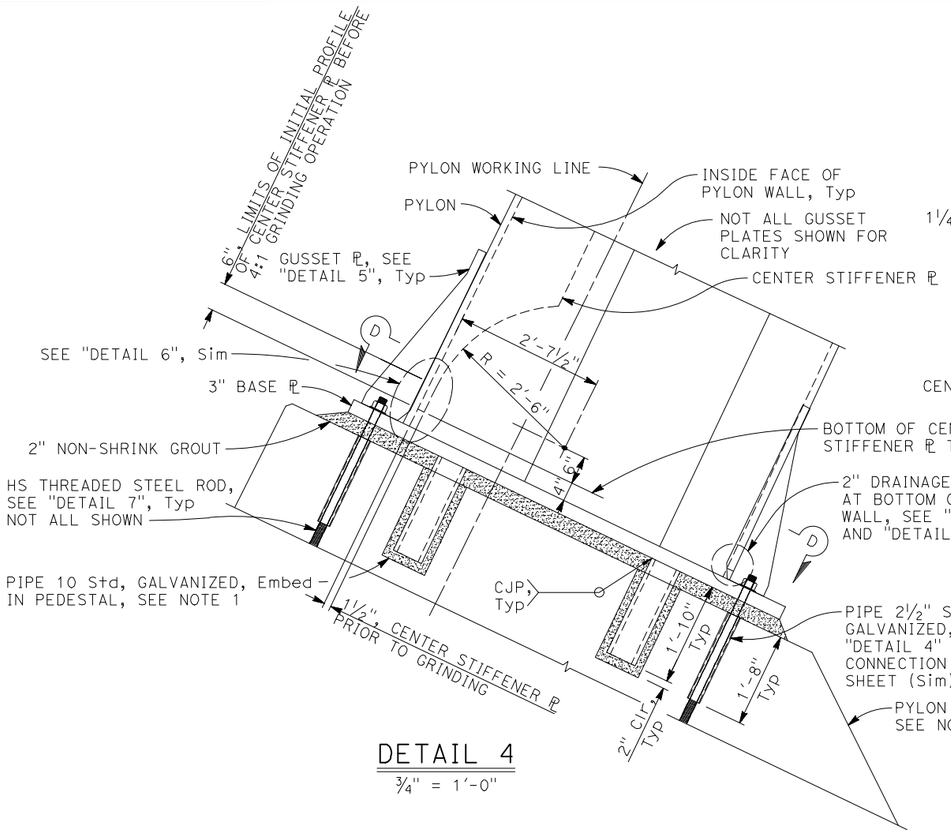
REGISTERED PROFESSIONAL ENGINEER — DANIEL S ROSELLINI — No. C79105 — Exp.3/31/26 — CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

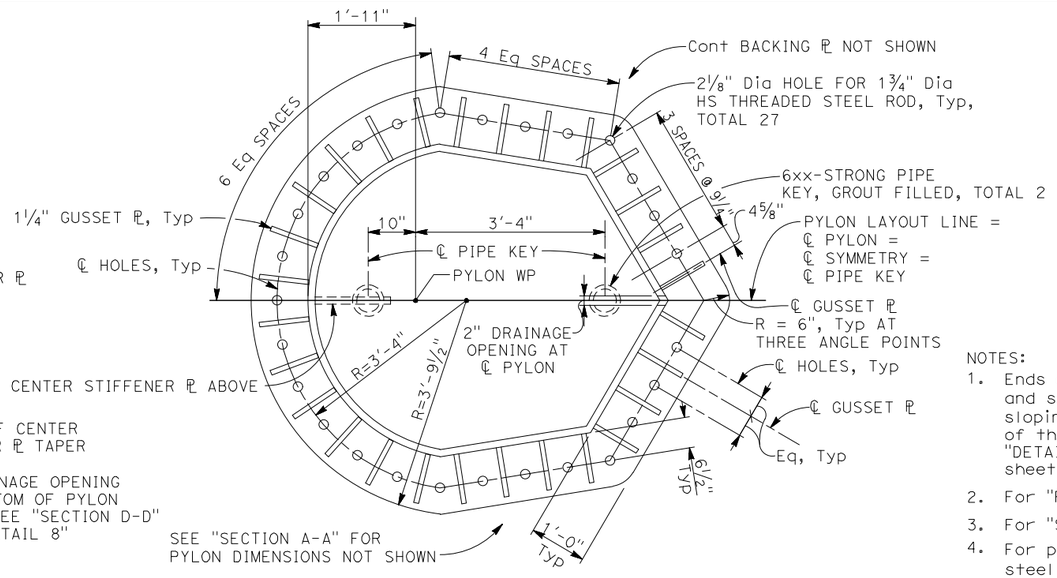
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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

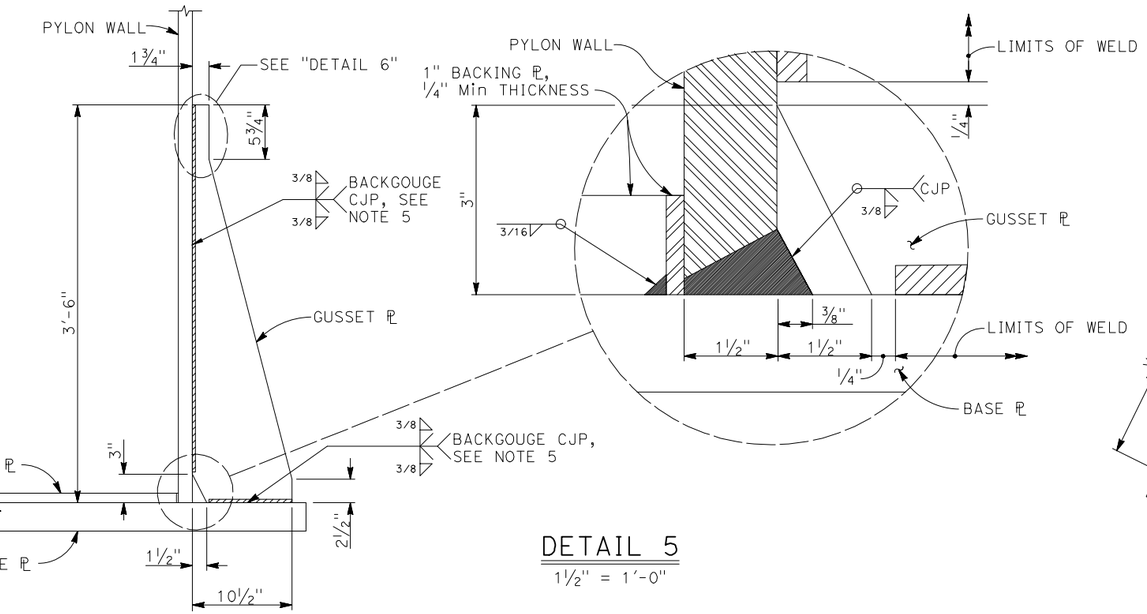
BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126



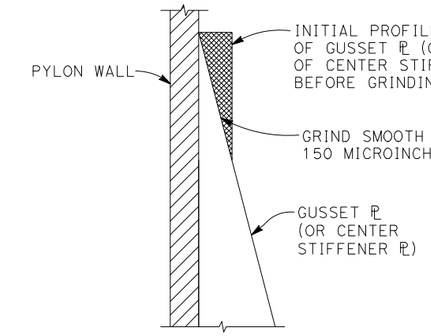
DETAIL 4
¾" = 1'-0"



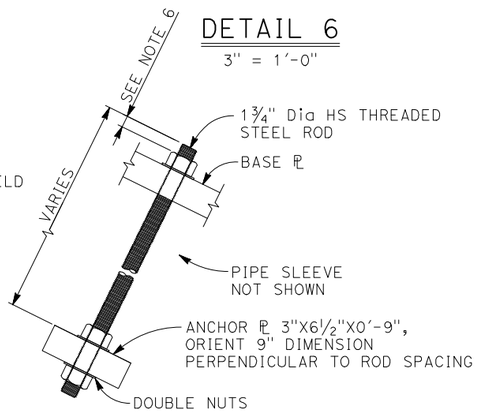
SECTION D-D
¾" = 1'-0"



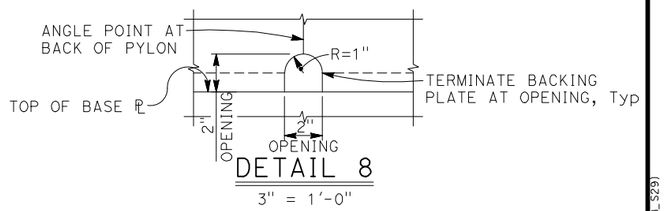
DETAIL 5
1½" = 1'-0"



DETAIL 6
3" = 1'-0"



DETAIL 7
1½" = 1'-0"



DETAIL 8
3" = 1'-0"

NOTES:

1. Ends of embedded pipe must be perpendicular. Install and secure embedded pipe perpendicular to the sloping top face of the pylon pedestal and flush of the pedestal. Details must be similar to "DETAIL 3" on "COLUMN/BOX CONNECTION DETAILS No. 4" sheet.
2. For "PYLON WORKING LINE", see "PYLON LAYOUT" sheet.
3. For "SECTION A-A", see "PYLON DETAILS No. 1" sheet.
4. For pylon pedestal details and HS threaded steel rod template plates, see "PYLON PEDESTAL DETAILS" sheet.
5. Extend reinforcing fillet around exterior ends of gusset plate.
6. Thread stickout from the outer face of the nut must be at least 1 inch and not greater than 3 inches.
7. After the pylon is properly positioned and temporarily supported, use following sequence to install non-shrink grout and tighten nuts:
   - Tighten nuts snug-tight in a crisscross sequence until bearing surfaces of all nuts, washers and base plates are in firm contact.
   - Install non-shrink grout within the annular voids between the steel pipe keys and the embedded corrugated steel pipes.
   - Install non-shrink grout under base plate.
   - Use an indelible marker to mark the nuts and base plates with lines showing relative alignment of the nut to the base plate.
   - Tighten nuts, following a crisscross sequence an additional 1/6 turn.
   - A minimum of 60 days after tightening nuts, fully loosen one nut and reinstall snug-tight plus an additional 1/6 turn. Install thread locking compound. Repeat for all nuts following a crisscross sequence.
8. Exposed corners of gusset plates and base plate must be eased with ⅛" radius.
9. Grind exposed edges of gusset plates and base plate smooth of all roughness and shearing and cut markings.

Robert Des
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Bodemar	D. Devlin
DETAILS	J. Bodemar	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
PYLON DETAILS No. 2

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 4:56pm
FILE => 2018057SRB_S29.dwg USERNAME => SMH
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES			
5-10-22	1-10-23	5-28-24	10-4-24

SHEET 29 OF 117

2018057 (2018057SRB_S29)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	135	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER DATE

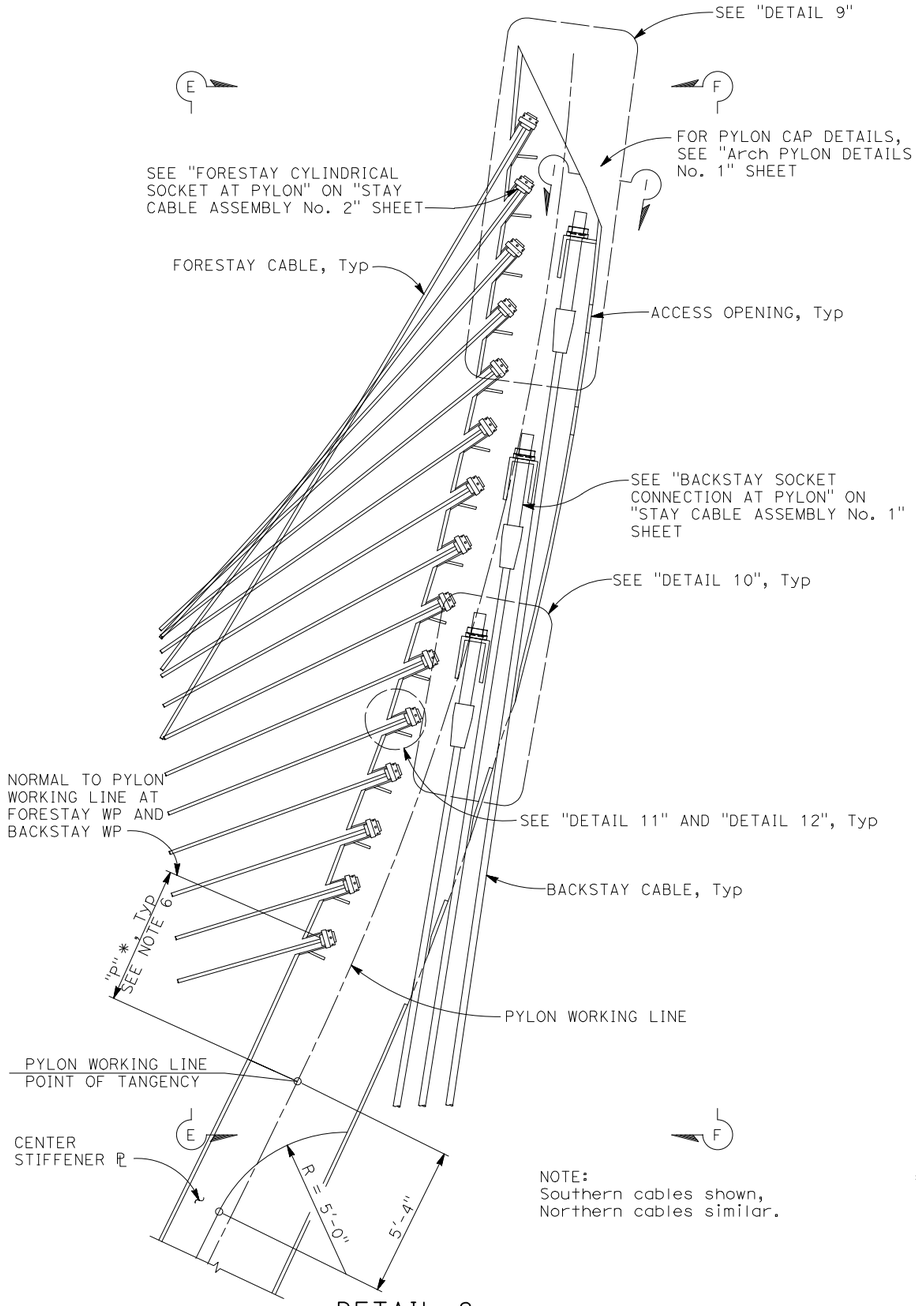
REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

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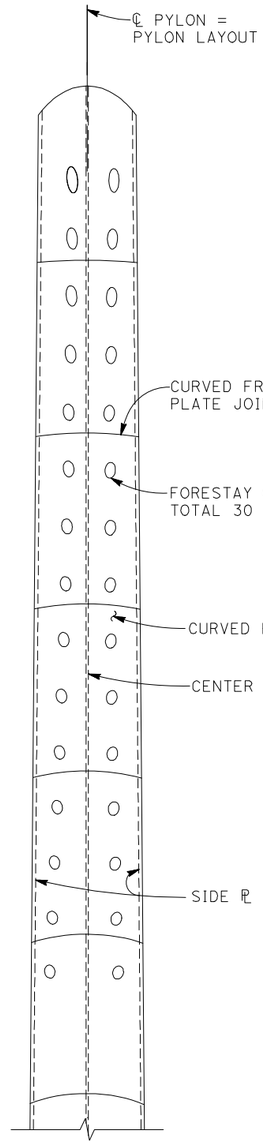
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

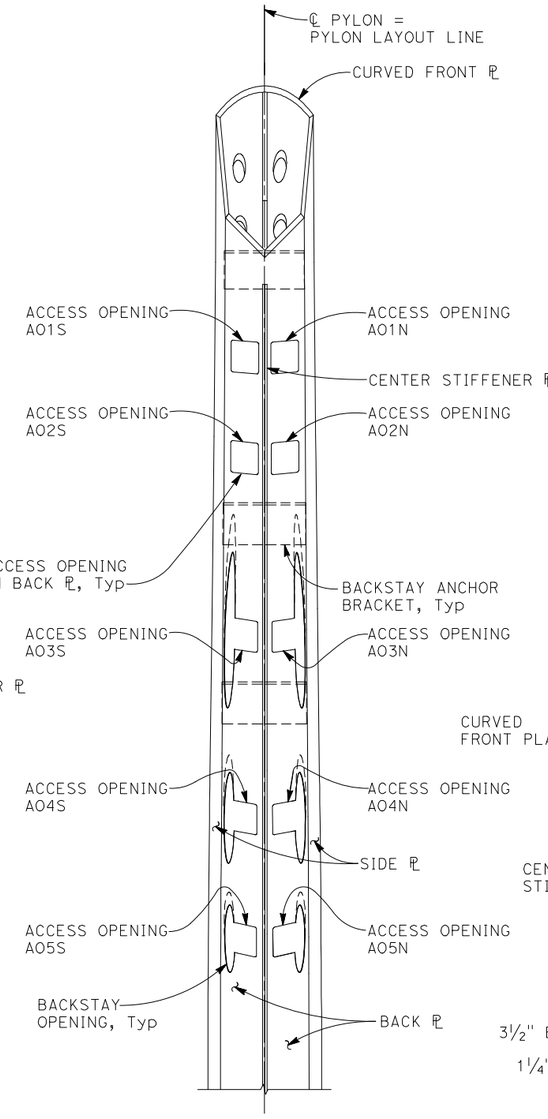


DETAIL 8
3/8" = 1'-0"

NOTE:
Southern cables shown, Northern cables similar.

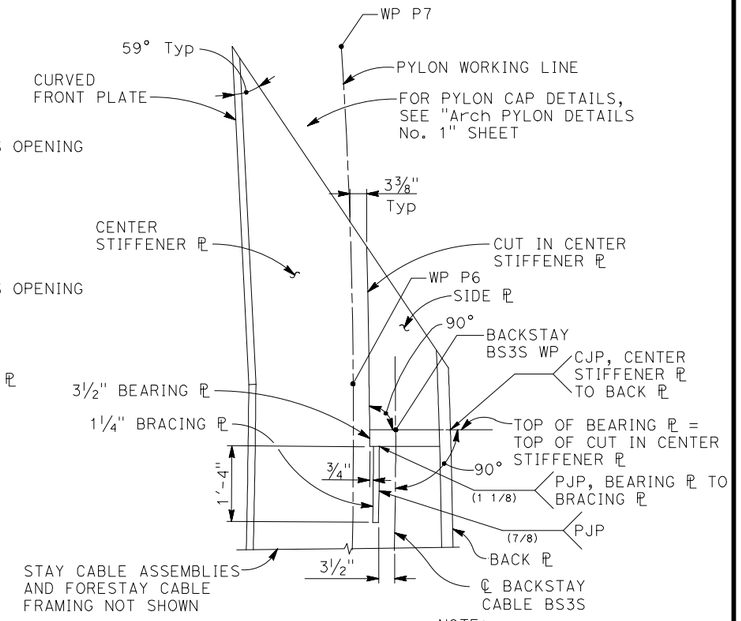


SECTION E-E
3/8" = 1'-0"



SECTION F-F
3/8" = 1'-0"

NOTES:
1. Dimensions designated by * are measured along the pylon working line.
2. For "PYLON LAYOUT LINE", see "BENT 8 LAYOUT" sheet.
3. For pylon working line, see "PYLON LAYOUT" sheet.
4. For "DETAIL 10" and "SECTION I-I", see "PYLON DETAILS No. 4" sheet.
5. For "DETAIL 11" and "DETAIL 12", see "PYLON DETAILS No. 5" sheet.
6. For access opening and backstay opening details, see "PYLON DETAILS No. 6" sheet.
7. For dimension "P", see "PYLON DETAILS No. 7" sheet.



DETAIL 9
3/4" = 1'-0"

NOTE:
BACKSTAY ANCHOR BRACKET AT BACKSTAY CABLE BS3S SHOWN, BACKSTAY ANCHOR BRACKET AT BS3N SIMILAR.

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

DESIGN	BY J. Bodemar	CHECKED D. Devlin	
DETAILS	BY J. Bodemar	CHECKED D. Devlin	
QUANTITIES	BY A. Notaro	CHECKED F. Franco	

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

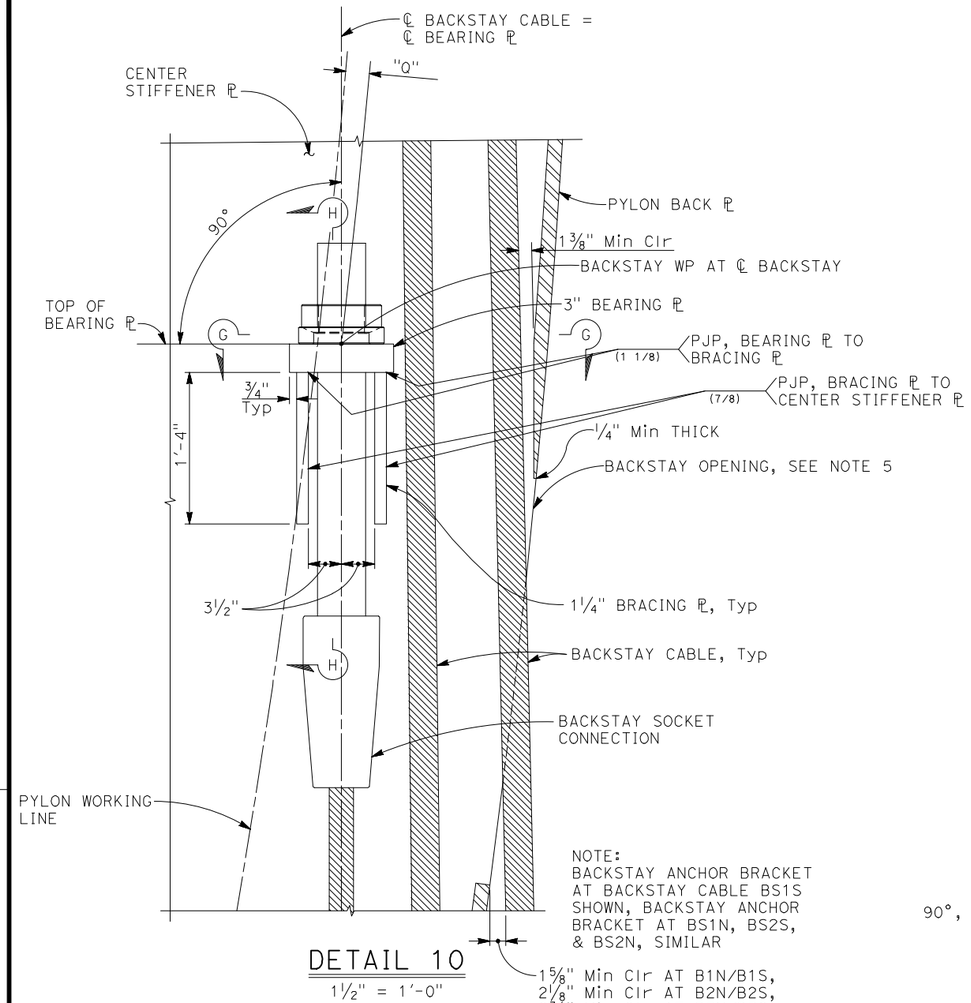
Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
PYLON DETAILS No. 3

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)
DATE PLOTTED => May 01, 2025 TIME PLOTTED => 4:56pm
FILE => 2018057SRB_S30.dwg USERNAME => SMH
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3
PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340
DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES: 6-18-22 | 1-18-23 | 6-28-24 | 2-21-25
SHEET 30 OF 117

(2018057SRB_S30)
2018057

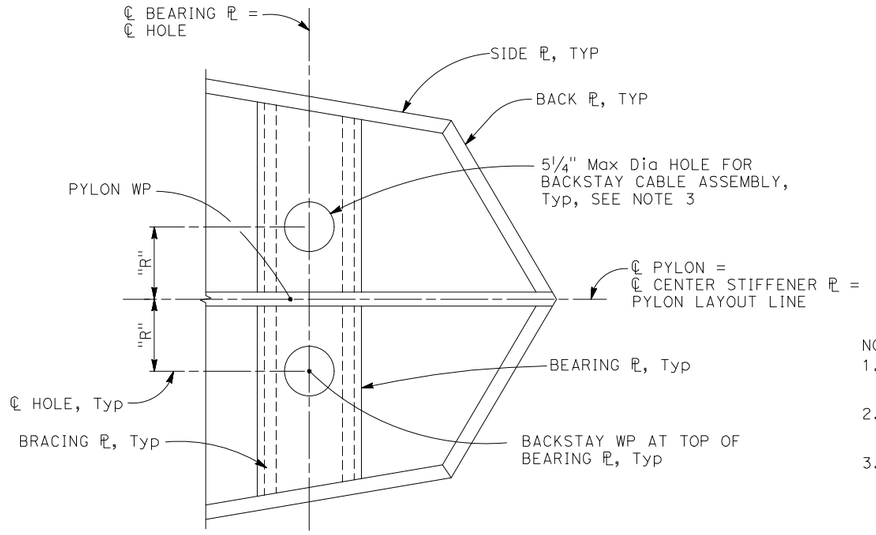


DETAIL 10

1 1/2" = 1'-0"

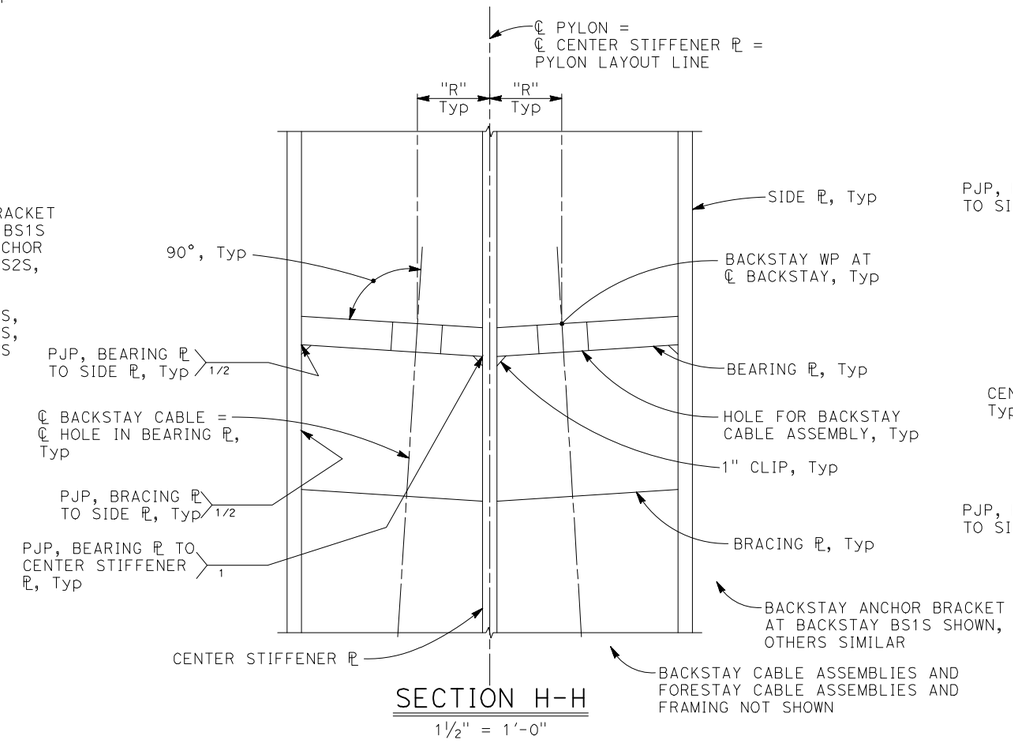
NOTE:
BACKSTAY ANCHOR BRACKET AT BACKSTAY CABLE BS1S SHOWN, BACKSTAY ANCHOR BRACKET AT BS1N, BS2S, & BS2N, SIMILAR

1 5/8" Min Clr AT B1N/B1S,
2 1/8" Min Clr AT B2N/B2S,
2 3/8" Min Clr AT B3N/B3S



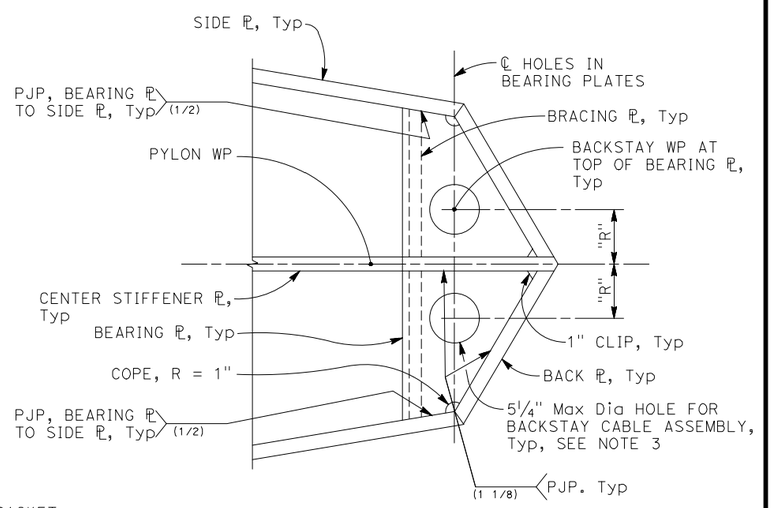
SECTION G-G

1 1/2" = 1'-0"



SECTION H-H

1 1/2" = 1'-0"



SECTION I-I

1 1/2" = 1'-0"

NOTES:

1. For backstay cable assembly details not shown, see "STAY CABLE ASSEMBLY No. 1" sheet.
2. For forestay cable assembly details not shown, see "STAY CABLE ASSEMBLY No. 2" sheet.
3. Hole in bearing plate must not exceed the inside diameter of the backstay spherical disk. Opening must be greater than the diameter of the backstay cable assembly threaded rod.
4. For dimensions "Q" and "R", see "PYLON DETAILS No. 7" sheet.
5. For backstay opening details not shown, see "Arch PYLON DETAILS No. 2" and "Arch PYLON DETAILS No. 3" sheets.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	136	247

Daniel Rosellini 5/2/25
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp. 3/31/26 CIVIL STATE OF CALIFORNIA

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Bodemar	D. Devlin
DETAILS	J. Bodemar	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
PYLON DETAILS No. 4

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)
DATE PLOTTED => May 01, 2025 TIME PLOTTED => 4:57pm
FILE => 2018057SRB_S31.dwg USERNAME => SMH
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3
PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340
DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES: 6-10-22 | 2-21-25 | 10-4-24
SHEET 31 OF 117
2018057 (2018057SRB_S31)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	137	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER DATE

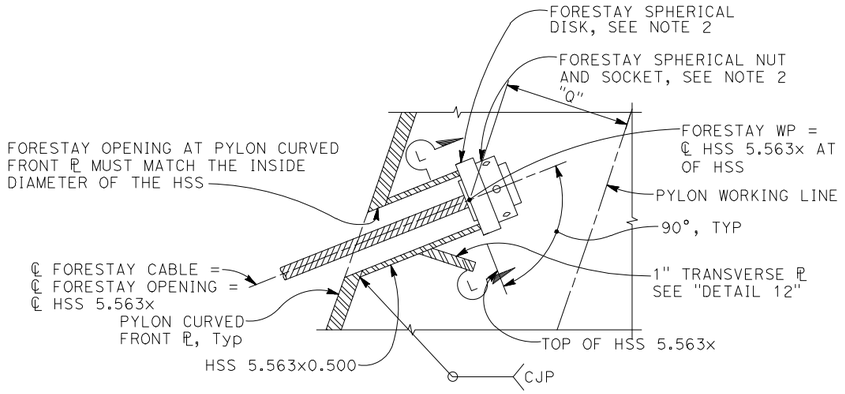
REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp. 3/31/26 CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

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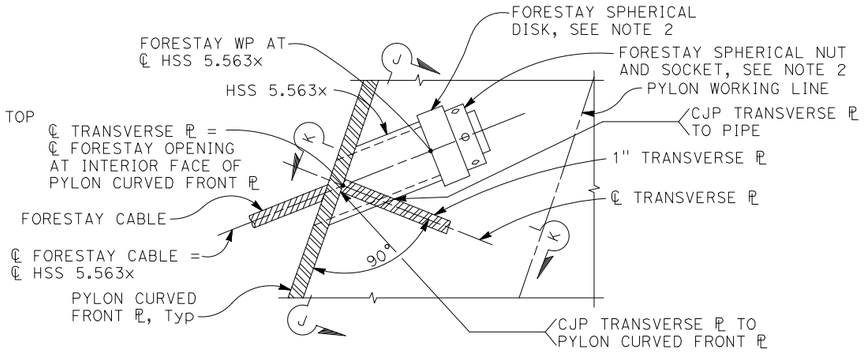
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126



DETAIL 11
1½" = 1'-0"

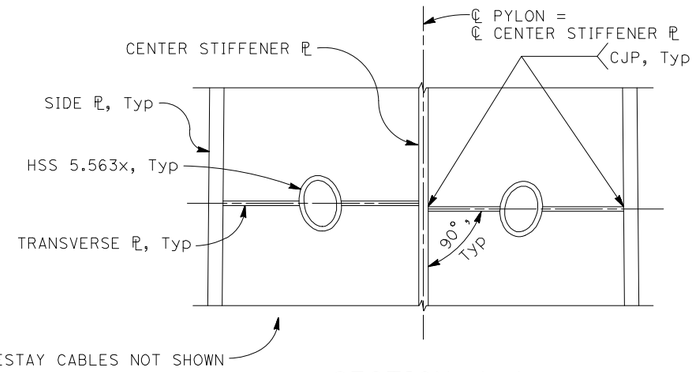
NOTE:
FORESTAY CABLE FS5S SHOWN, OTHERS SIMILAR



DETAIL 12
1½" = 1'-0"

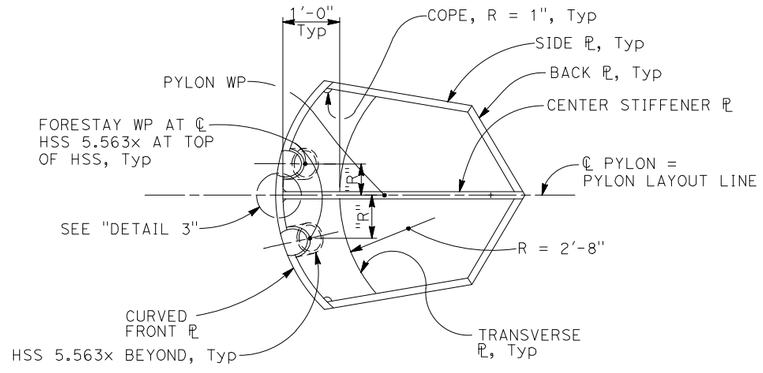
NOTE:
FORESTAY CABLE FS5S SHOWN, OTHERS SIMILAR

NOTES:
1. For backstay cable assembly details not shown, see "STAY CABLE ASSEMBLY No. 1" sheet.
2. For forestay cable assembly details not shown, see "STAY CABLE ASSEMBLY No. 2" sheet.
3. Hole in forestay spherical disk must match inside diameter of HSS 5.563x.
4. For dimensions "Q" and "R", see "PYLON DETAILS No. 7" sheet.
5. For "DETAIL 3", see "PYLON DETAILS No. 1" sheet.



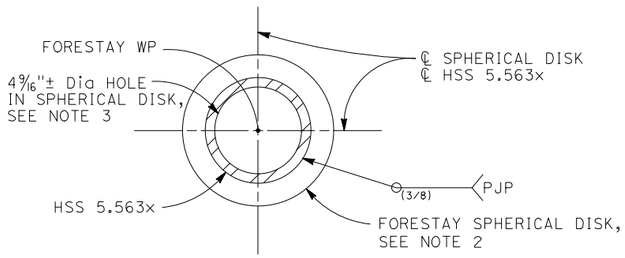
SECTION J-J
1½" = 1'-0"

NOTE:
PYLON CONNECTIONS AT FORESTAY CABLES FS5N & FS5S SHOWN, OTHERS SIMILAR



SECTION K-K
¾" = 1'-0"

NOTES:
1. PYLON CONNECTIONS AT FORESTAY CABLES FS5N & FS5S SHOWN, OTHERS SIMILAR
2. BACKSTAYS AND BACKSTAY ANCHOR BRACKETS NOT SHOWN



SECTION L-L
3" = 1'-0"

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Bodemar	D. Devlin
DETAILS	J. Bodemar	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
PYLON DETAILS No. 5

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 4:57pm
FILE => 2018057SRB_S32.dwg USERNAME => SMH
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

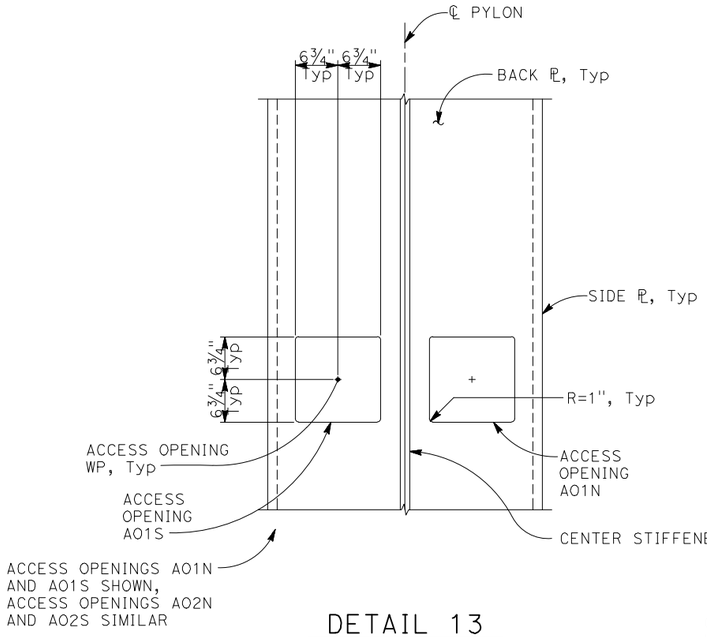
PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G3340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES			
6-10-22	1-16-23	6-28-24	10-4-24

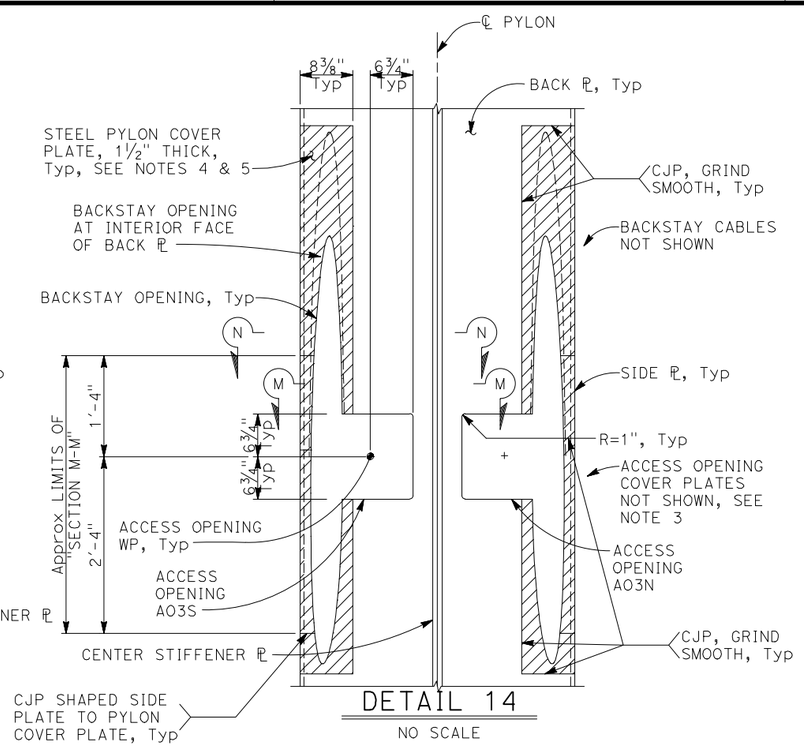
SHEET 32 OF 117

(2018057SRB_S32) 2018057



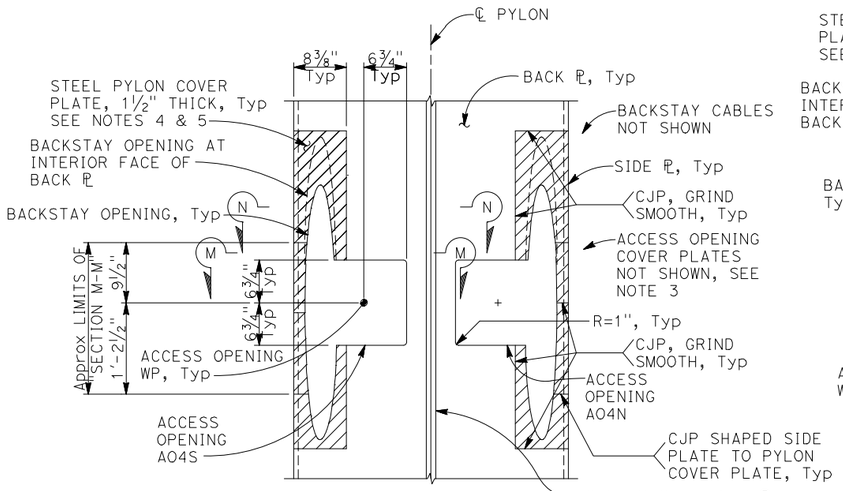
DETAIL 13

NO SCALE



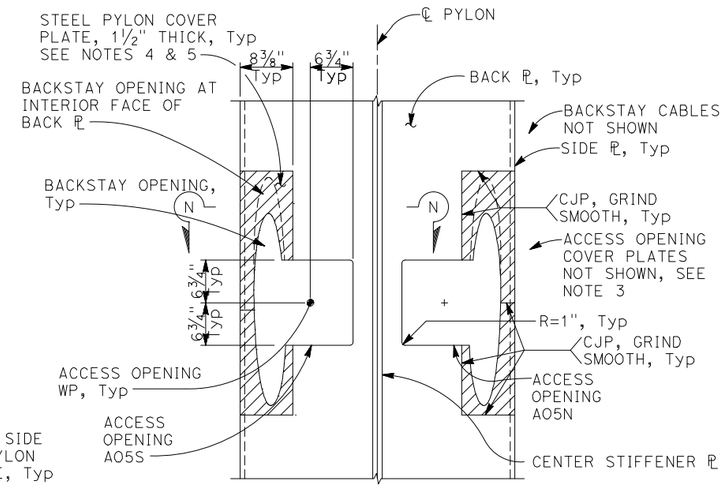
DETAIL 14

NO SCALE



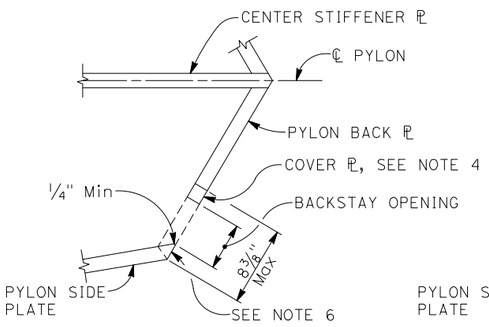
DETAIL 15

NO SCALE



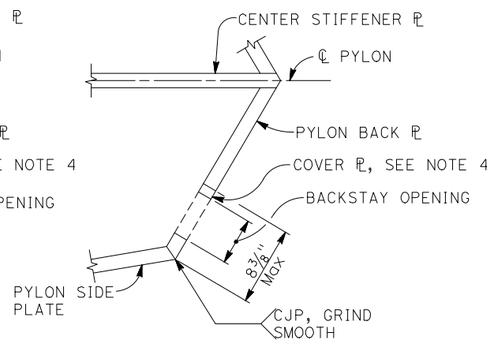
DETAIL 16

NO SCALE



SECTION M-M

1½" = 1'-0"



SECTION N-N

1½" = 1'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	138	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

NOTES:

1. Access opening dimensions are shown in the plane of the back plates.
2. For access opening work point locations, see "PYLON DETAILS No. 7" sheet.
3. For details of access openings and access opening cover plates not shown, see "Arch PYLON DETAILS No. 2" sheet.
4. For details of steel pylon cover plates and backstay opening geometry not shown, see "Arch PYLON DETAILS No. 3" sheet.
5. At the Contractor's option, backstay openings may be constructed into the back plates without the steel pylon cover plates.
6. Shape pylon side plates and back plates to create backstay openings.
7. Welds identified as ground smooth must be uniform and continuous and be filled and blended to provide a smooth transition to the connected surface.

LEGEND:

▨ Indicates Steel Pylon Cover Plate

Daniel S. Rosellini
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Bodemar	D. Devlin
DETAILS	J. Bodemar	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
PYLON DETAILS No. 6

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 4:57pm
FILE => 2018057SRB_S33.dwg USERNAME => SMH
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
6-28-24	10-4-24	2-21-25		33	117

2018057 [2018057SRB_S33]

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	139	247

Daniel Rosellini 5/2/25
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

FORESTAY WORK POINTS AT PYLON TABLE

FORESTAY	FS1N	FS2N	FS3N	FS4N	FS5N	FS6N	FS7N	FS8N	FS9N	FS10N	FS11N	FS12N	FS13N	FS14N	FS15N
DIMENSION "P" SEE NOTE 1	5'-9"	7'-10"	9'-11 3/8"	12'-0 3/4"	14'-1 3/4"	16'-3 1/4"	18'-4 3/4"	20'-5 7/8"	22'-7 3/8"	24'-9 1/8"	26'-10 3/8"	29'-0 1/4"	31'-2"	33'-5 1/4"	35'-7 5/8"
DIMENSION "Q" SEE NOTE 2	9 1/4"	9 5/8"	10 1/4"	10 3/8"	10 5/8"	11 1/4"	11 3/8"	11 5/8"	1'-0 3/8"	1'-0 5/8"	1'-1 1/4"	1'-2 1/4"	1'-2 7/8"	1'-3"	1'-4 1/2"
DIMENSION "R" SEE NOTE 3	1'-3 1/8"	1'-2"	1'-1 1/8"	1'-0"	11"	10 1/4"	9 3/8"	8 5/8"	8 1/8"	7 1/2"	7 1/8"	6 7/8"	6 5/8"	6 1/2"	6 5/8"
FORESTAY	FS1S	FS2S	FS3S	FS4S	FS5S	FS6S	FS7S	FS8S	FS9S	FS10S	FS11S	FS12S	FS13S	FS14S	FS15S
DIMENSION "P" SEE NOTE 1	5'-8"	7'-9 1/8"	9'-10 1/2"	11'-11 7/8"	14'-0"	16'-2 1/2"	18'-4"	20'-5 1/4"	22'-6 7/8"	24'-8 1/2"	26'-10"	28'-11 3/4"	31'-1 1/2"	33'-4 7/8"	35'-7 1/4"
DIMENSION "Q" SEE NOTE 2	10 1/2"	10 5/8"	11"	10 7/8"	10 7/8"	11 3/8"	11 1/4"	11 1/2"	1'-0"	1'-0 1/8"	1'-0 1/2"	1'-1 3/8"	1'-1 7/8"	1'-1 3/4"	1'-3"
DIMENSION "R" SEE NOTE 3	1'-1"	1'-0 1/4"	11 5/8"	10 7/8"	10 1/4"	9 7/8"	9 1/2"	9 1/8"	9"	8 3/4"	8 3/4"	8 7/8"	8 7/8"	8 3/4"	9 1/8"

BACKSTAY WORK POINTS AT PYLON TABLE

BACKSTAY	BS1N	BS2N	BS3N
DIMENSION "P" SEE NOTE 1	16'-4 3/4"	22'-11"	31'-0 5/8"
DIMENSION "Q" SEE NOTE 2	2 5/8"	3 1/2"	8 7/8"
DIMENSION "R" SEE NOTE 3	7 5/8"	6 5/8"	5 3/4"
BACKSTAY	BS1S	BS2S	BS3S
DIMENSION "P" SEE NOTE 1	16'-4 3/4"	22'-11"	31'-0 5/8"
DIMENSION "Q" SEE NOTE 2	2 5/8"	3 1/2"	8 7/8"
DIMENSION "R" SEE NOTE 3	7 5/8"	6 5/8"	5 3/4"

ACCESS OPENING WORK POINTS AT PYLON TABLE

ACCESS OPENING	AO1N	AO2N	AO3N	AO4N	AO5N
DIMENSION "P" SEE NOTE 1	28'-5 1/8"	24'-10 3/4"	18'-7 5/8"	12'-1 1/8"	7'-7 5/8"
DIMENSION "Q" SEE NOTE 2	1'-3 5/8"	1'-4 7/8"	1'-7 1/8"	1'-9"	1'-9 1/2"
DIMENSION "R" SEE NOTE 3	8 3/8"	8 1/2"	8 7/8"	9 1/8"	9 1/4"
ACCESS OPENING	AO1S	AO2S	AO3S	AO4S	AO5S
DIMENSION "P" SEE NOTE 1	28'-5 1/8"	24'-10 3/4"	18'-7 5/8"	12'-1 1/8"	7'-7 5/8"
DIMENSION "Q" SEE NOTE 2	1'-3 5/8"	1'-4 7/8"	1'-7 1/8"	1'-9"	1'-9 1/2"
DIMENSION "R" SEE NOTE 3	8 3/8"	8 1/2"	8 7/8"	9 1/8"	9 1/4"

NOTES:
1. Dimension "P" is the distance measured along the pylon working line from the pylon working line point of tangency to the point on the pylon working line orthogonal to the cable stay work point.
2. Dimension "Q" is the cable stay work point orthogonal offset from the pylon working line, measured parallel to the pylon layout line.
3. Dimension "R" is the cable stay work point orthogonal offset from the pylon working line, measured parallel to the pylon layout line.

Robert Reo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Bodemar	D. Devlin
DETAILS	J. Bodemar	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
PYLON DETAILS No. 7

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

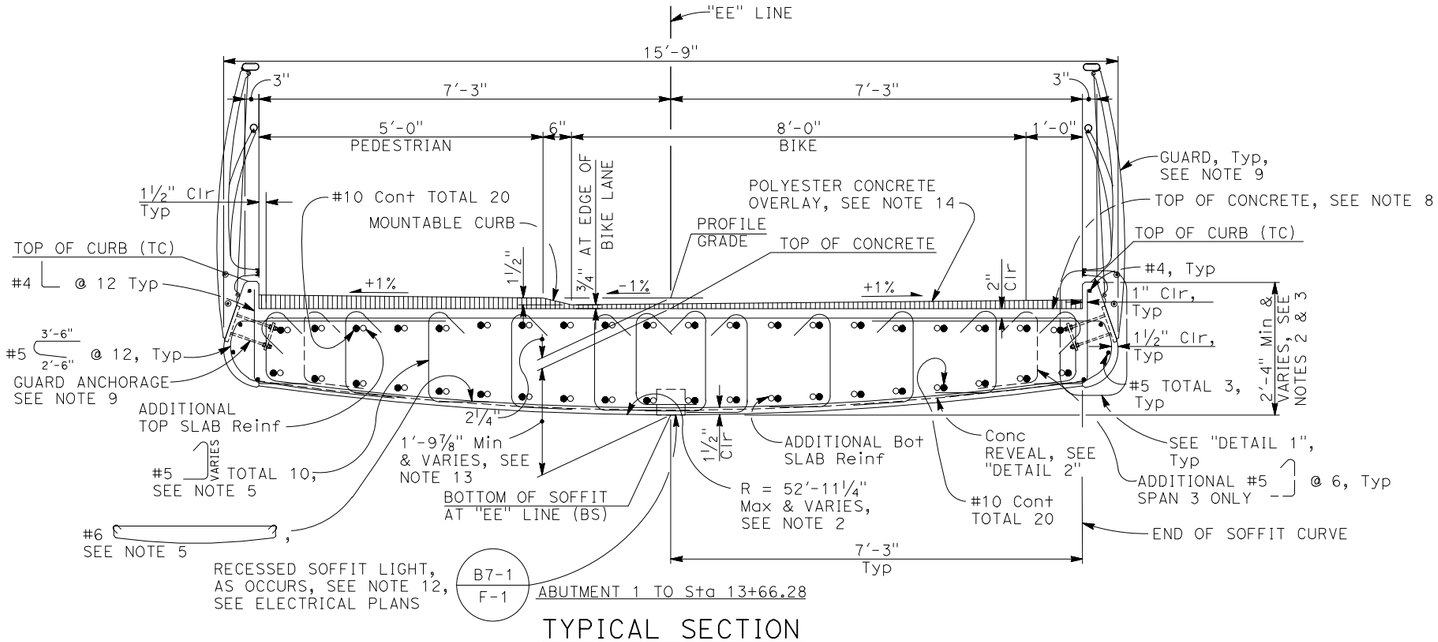
DATE PLOTTED => May 01, 2025 TIME PLOTTED => 4:57pm
FILE => 2018057SRB_S34.dwg USERNAME => SMH
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

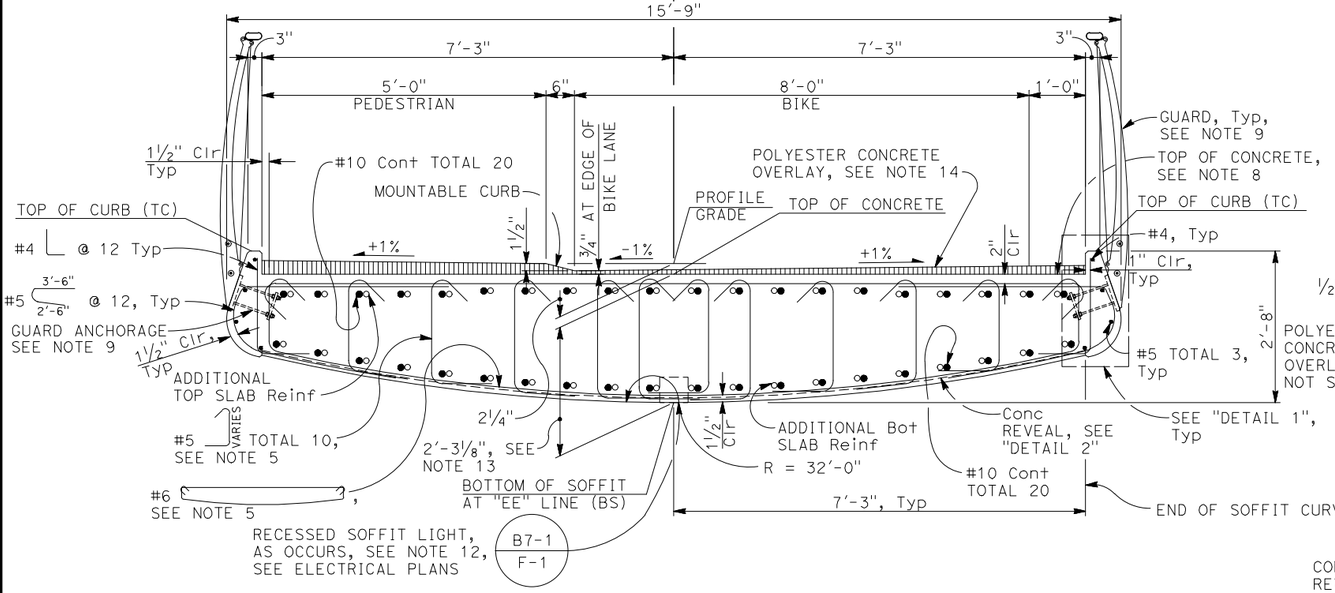
REVISION DATES				SHEET	OF
6-28-24				34	117

(2018057SRB_S34)
2018057



TYPICAL SECTION

¾" = 1'-0"



TYPICAL SECTION

¾" = 1'-0"

LEGEND:

▨ Indicates Polyester Concrete Overlay

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	140	247

Daniel Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

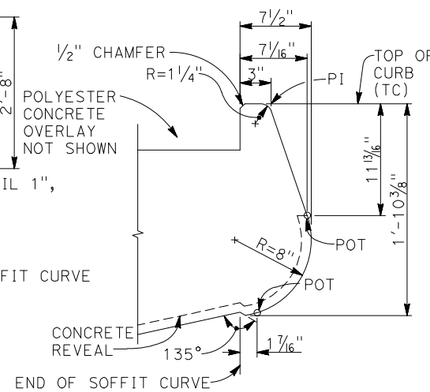
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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

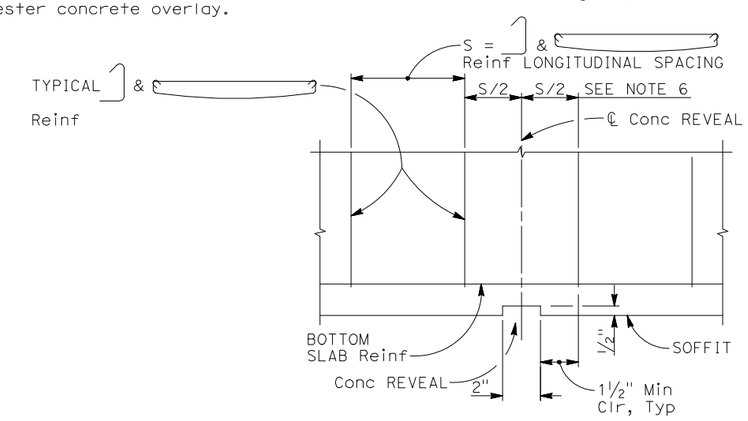
NOTES:

1. All transverse dimensions are measured normal to "EE" Line.
2. Structure depth and soffit radius vary between Bent 3 and Bent 4.
3. See "WEST APPROACH SLAB LAYOUT" sheet and "EAST APPROACH SLAB LAYOUT" sheet for top of curb (TC) and bottom of soffit (BS) profiles.
4. Continuous reinforcement must be spliced with "SERVICE LEVEL" splices staggered at 4'-0" minimum. See "SLAB REINFORCEMENT PLAN" sheets for No Splice Zone.
5. Transverse reinforcement must be placed vertically and normal to "EE" Line. See "WEST APPROACH SLAB LAYOUT" and "EAST APPROACH SLAB LAYOUT" sheets for longitudinal spacing.
6. S/2 may be increased by ½" maximum to provide minimum cover to typical slab reinforcement shown.
7. For additional top and bottom slab reinforcement, see "SLAB REINFORCEMENT PLAN" sheets.
8. Top of concrete must be level transversely.
9. For guard limits, see "GUARD AND FENCING LAYOUT" sheet. For guard and guard anchorage details, see "STANCHION DETAILS" sheets and "GUARD DETAILS" sheets.
10. For reinforcement layout at grade breaks, see "DETAIL 3" on "SLAB DETAILS No. 2" sheet.
11. For drainage details, see "DECK DRAINAGE DETAILS" sheet.
12. Provide 1½" reinforcing clearance to recessed soffit lights.
13. Structure depth shown does not include polyester concrete overlay thickness.
14. See "POLYESTER Conc OVERLAY DETAILS" sheet for limits of integrally-colored polyester concrete overlay.



DETAIL 1

1½" = 1'-0"



DETAIL 2

3" = 1'-0"

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
APPROACH STRUCTURE TYPICAL SECTION

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025
FILE => 2018057SRB_S35.dwg
TIME PLOTTED => 4:58pm
USERNAME => SMH
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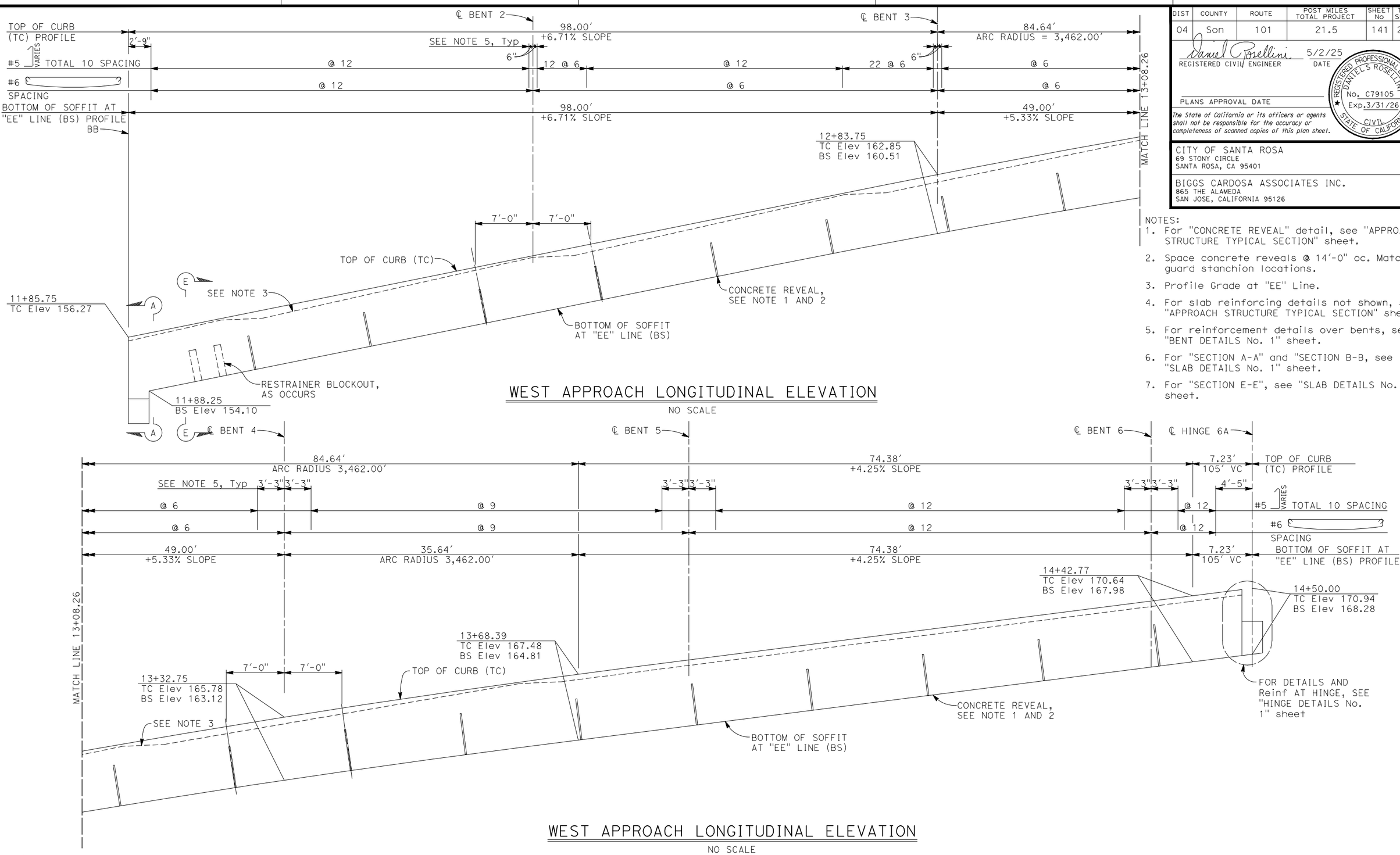
PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES			
6-10-22		2-21-25	5-2-25

SHEET 35 OF 117

(2018057SRB_S35)



WEST APPROACH LONGITUDINAL ELEVATION

NO SCALE

WEST APPROACH LONGITUDINAL ELEVATION

NO SCALE

NOTES:

1. For "CONCRETE REVEAL" detail, see "APPROACH STRUCTURE TYPICAL SECTION" sheet.
2. Space concrete reveals @ 14'-0" oc. Match guard stanchion locations.
3. Profile Grade at "EE" Line.
4. For slab reinforcing details not shown, see "APPROACH STRUCTURE TYPICAL SECTION" sheet.
5. For reinforcement details over bents, see "BENT DETAILS No. 1" sheet.
6. For "SECTION A-A" and "SECTION B-B, see "SLAB DETAILS No. 1" sheet.
7. For "SECTION E-E", see "SLAB DETAILS No. 2" sheet.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	141	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — DANIEL S ROSELLINI — No. C79105 — Exp.3/31/26 — CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

Rakesh Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	A. Notaro	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
WEST APPROACH SLAB LAYOUT

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 4:58pm
FILE => 2018057SRB_536.dwg USERNAME => SMH
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES: 6-10-22 | 1-10-23 | 6-28-24 | 2-21-25

SHEET 36 OF 117

2018057 (2018057SRB_S36)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	142	247

Daniel Rosellini 5/2/25
REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER
DANIEL S ROSELLINI
No. C79105
Exp.3/31/26
CIVIL
STATE OF CALIFORNIA

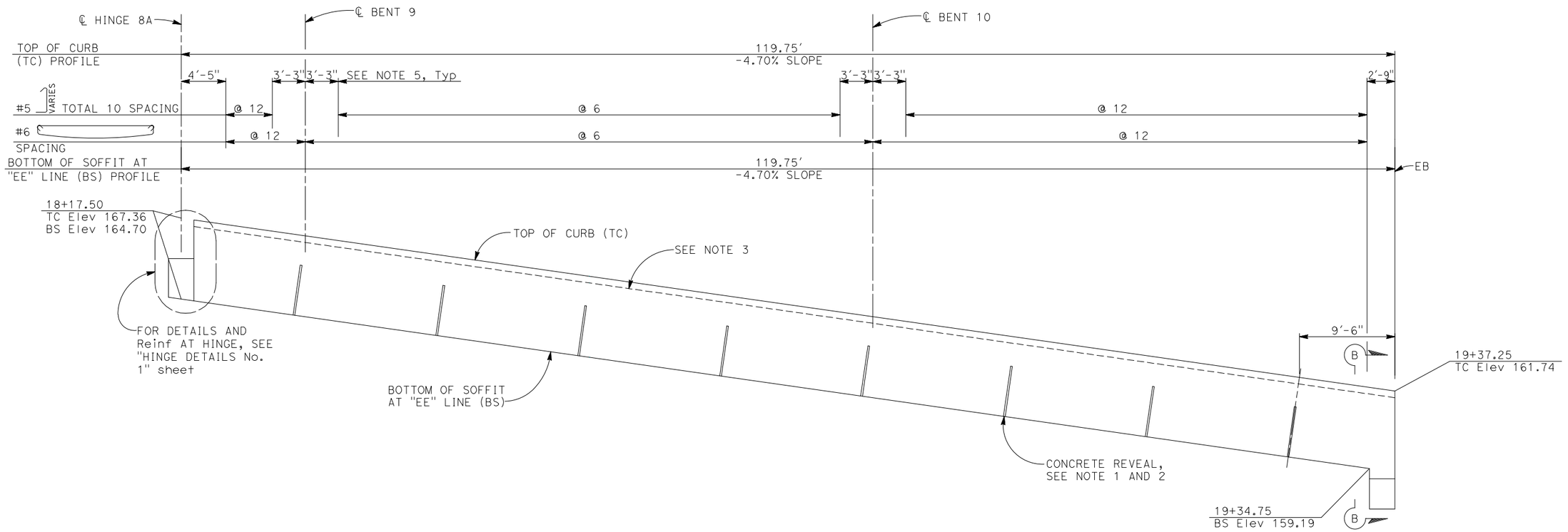
PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

NOTE:
For "NOTES", see "WEST APPROACH SLAB LAYOUT" sheet.



EAST APPROACH LONGITUDINAL ELEVATION

NO SCALE

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

		BY	CHECKED
DESIGN		D. Rosellini	D. Devlin
DETAILS		A. Notaro	D. Devlin
QUANTITIES		A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
EAST APPROACH SLAB LAYOUT

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 4:58pm
FILE => 2018057SRB_537.dwg USERNAME => SMH
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES: 6-10-22 | 1-10-23 | 6-28-24 | 2-21-25

SHEET 37 OF 117

2018057 (2018057SRB_537)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	143	247

Daniel G Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

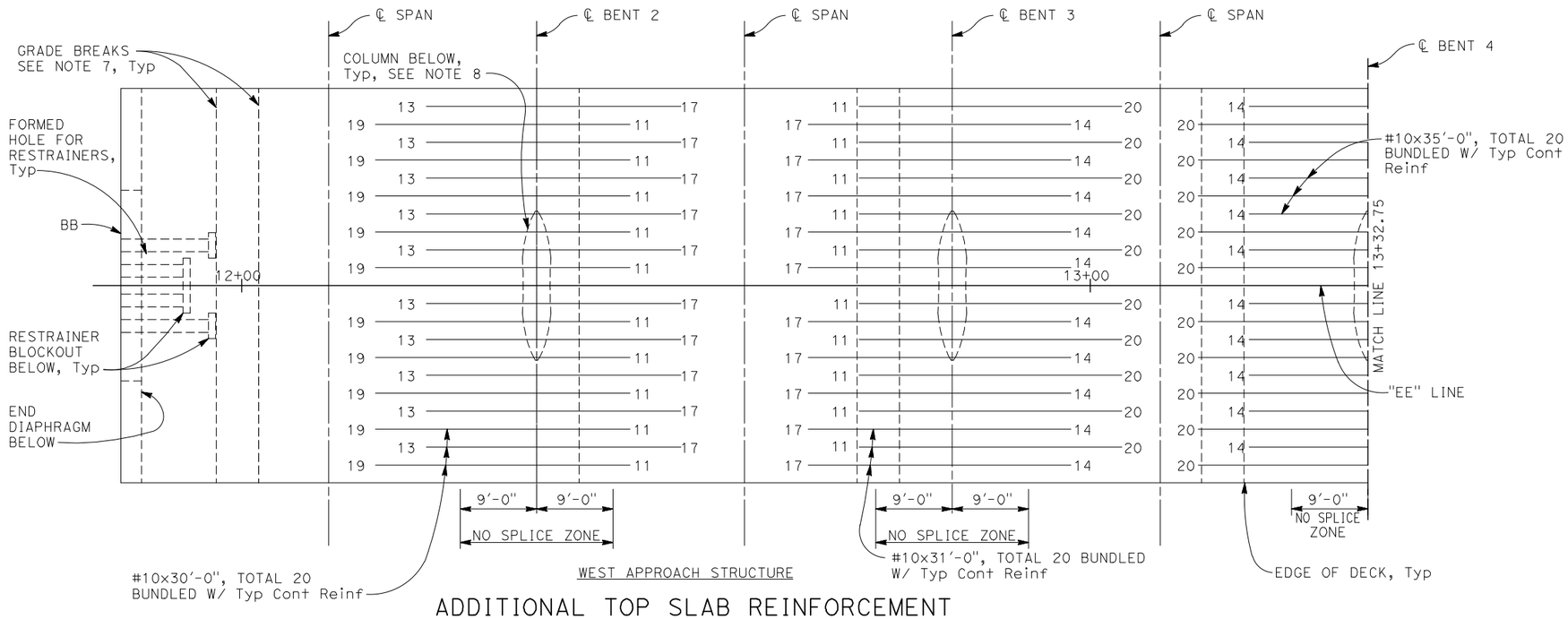
REGISTERED PROFESSIONAL ENGINEER — DANIEL S ROSELLINI — No. C79105 — Exp.3/31/26 — CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126



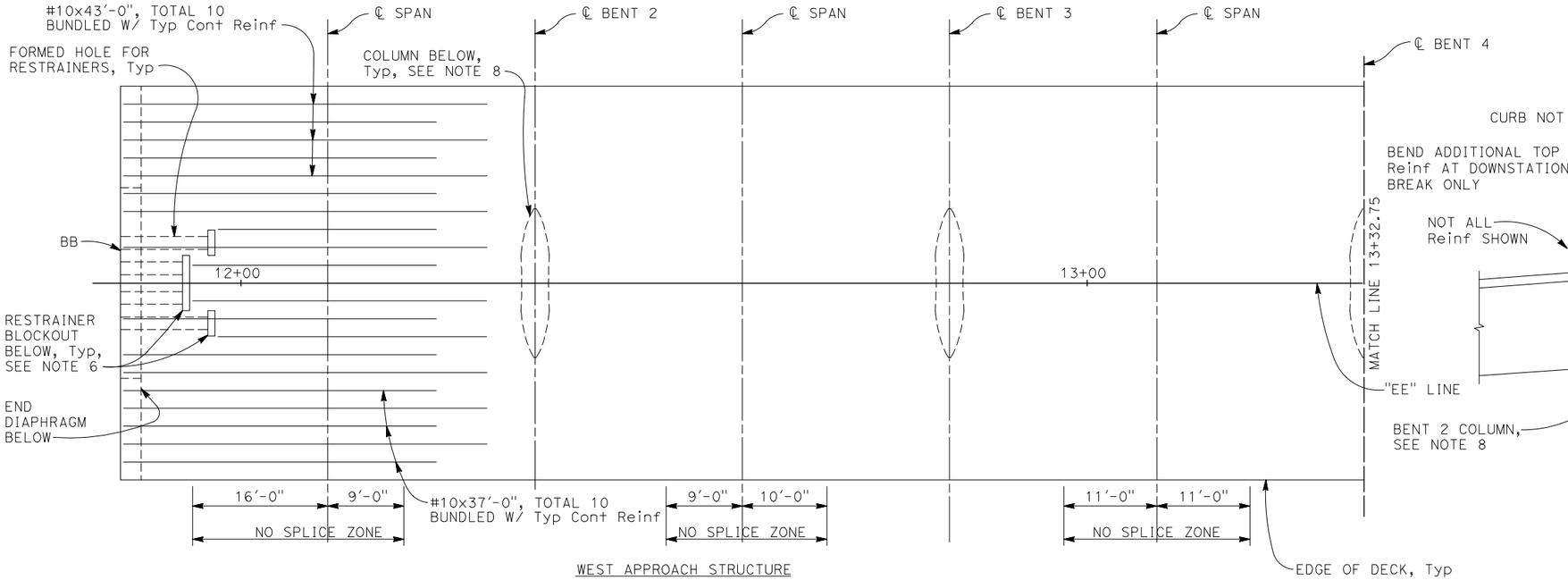
WEST APPROACH STRUCTURE

ADDITIONAL TOP SLAB REINFORCEMENT

NO SCALE

NOTES:

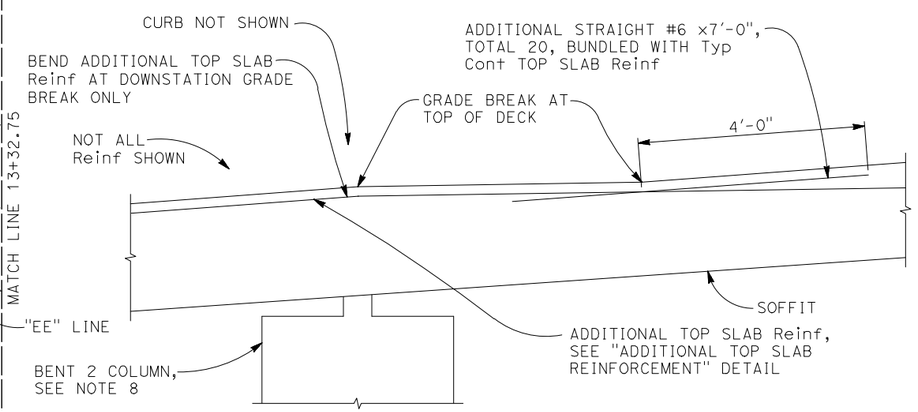
1. Space bars approximately equally within specified width. Arrange to avoid column Reinf.
2. Additional Reinf. must be spliced with "Service Level" splices staggered at 4' Min. outside the "No Splice Zone" indicated.
3. Slab longitudinal Reinf. must be placed parallel to "EE" line.
4. Number at the end of the bar indicates distance in feet from ℄ bent or from ℄ span.
5. Transverse slab Reinf. not shown for clarity.
6. Discontinue additional bottom slab reinforcement in conflict with restrainer blockout. See "SLAB DETAILS No. 2" sheet for additional details.
7. For configuration of additional top slab reinforcement at grade breaks, except for grade breaks near Bent 2, see "DETAIL 2" on "SLAB REINFORCEMENT PLAN No. 2" sheet. For configuration of additional top slab reinforcement at grade breaks near Bent 2, see "DETAIL 1".
8. For column and column connection to superstructure details, see "BENT 2-3 LAYOUT" and "BENT 4-5 & 9-10 LAYOUT" sheet.



WEST APPROACH STRUCTURE

ADDITIONAL BOTTOM SLAB REINFORCEMENT

NO SCALE



ADDITIONAL TOP AND BOTTOM SLAB REINFORCEMENT AT BENT 2 - ELEVATION

DETAIL 1

3/4" = 1'-0"

Rakesh Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
SLAB REINFORCEMENT PLAN No. 1

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

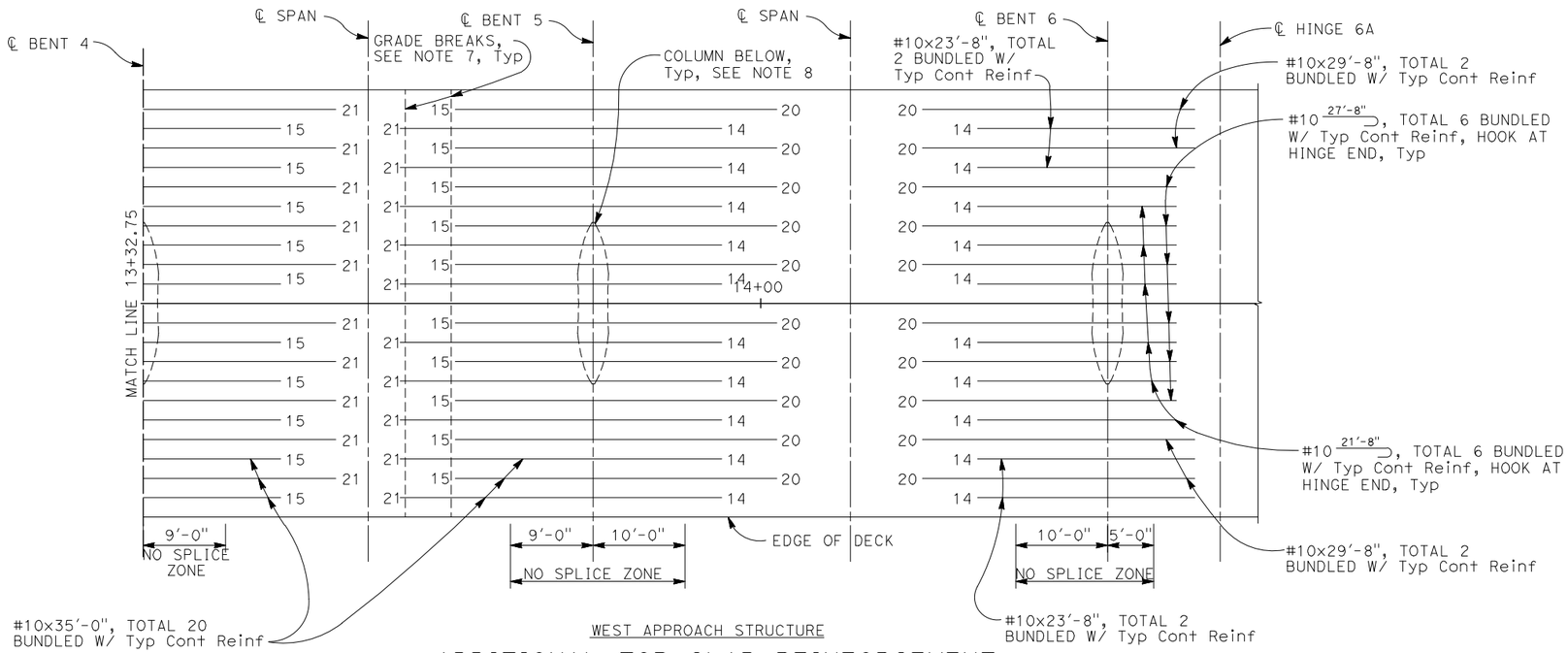
DATE PLOTTED => May 01, 2025 TIME PLOTTED => 4:59pm
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
6-10-22	1-10-23	6-28-24	2-21-25	38	117

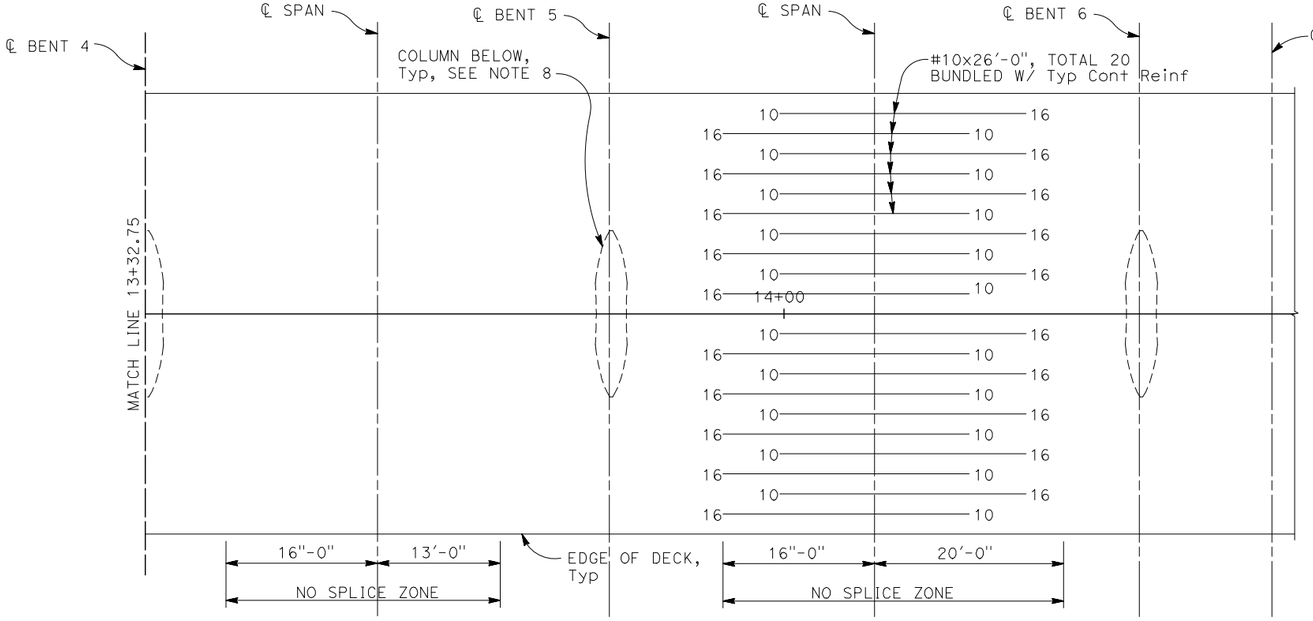
2018057 (2018057SRB_538)



WEST APPROACH STRUCTURE

ADDITIONAL TOP SLAB REINFORCEMENT

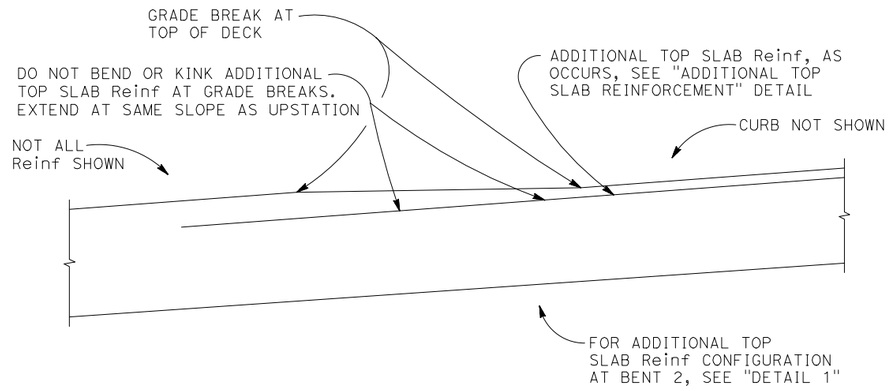
NO SCALE



WEST APPROACH STRUCTURE

ADDITIONAL BOTTOM SLAB REINFORCEMENT

NO SCALE



ADDITIONAL TOP AND BOTTOM SLAB REINFORCEMENT AT GRADE BREAKS - ELEVATION

DETAIL 2

3/4" = 1'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	144	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

NOTE:
For "NOTES", see "SLAB REINFORCEMENT PLAN No. 1" sheet.

Robert Des
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
SLAB REINFORCEMENT PLAN No. 2

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

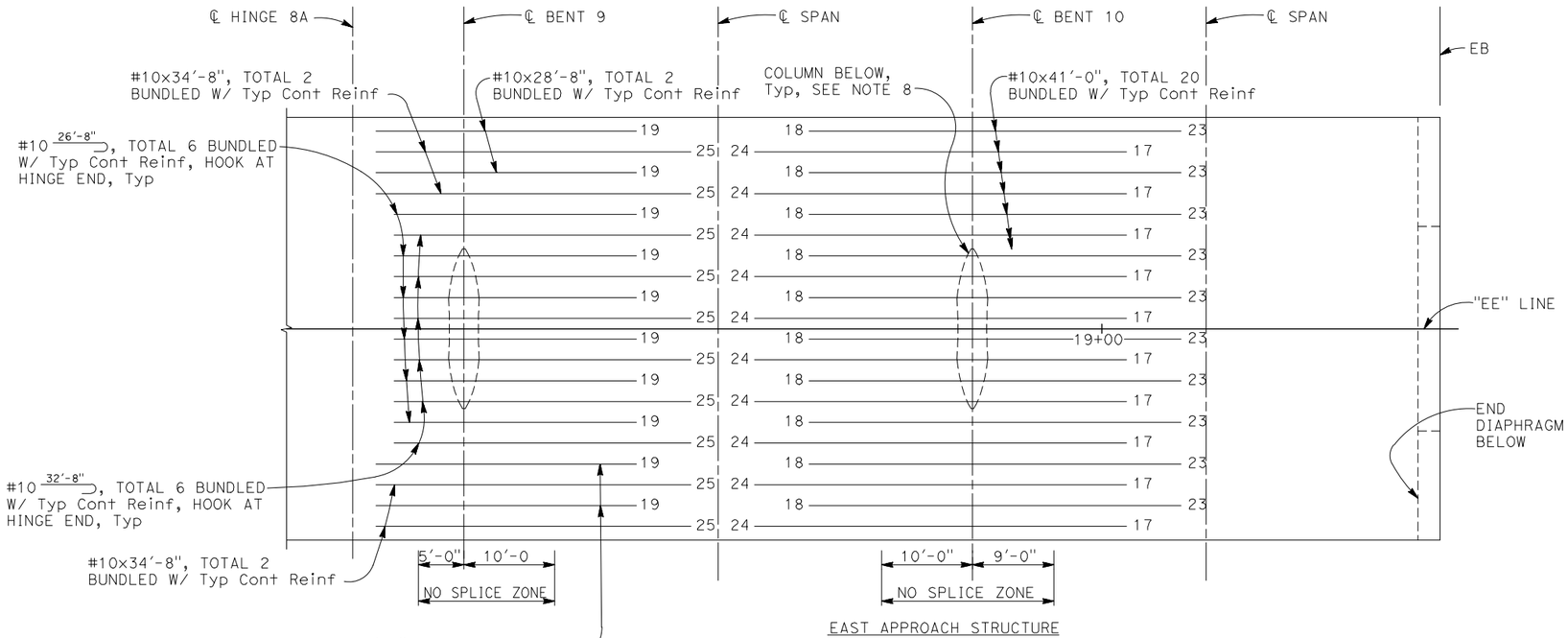
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FILE => 2018057SRB_S39.dwg
TIME PLOTTED => 4:59pm
USERNAME => SMH
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES: 6-10-22 | 1-10-23 | 6-28-24 | 2-21-25

SHEET 39 OF 117

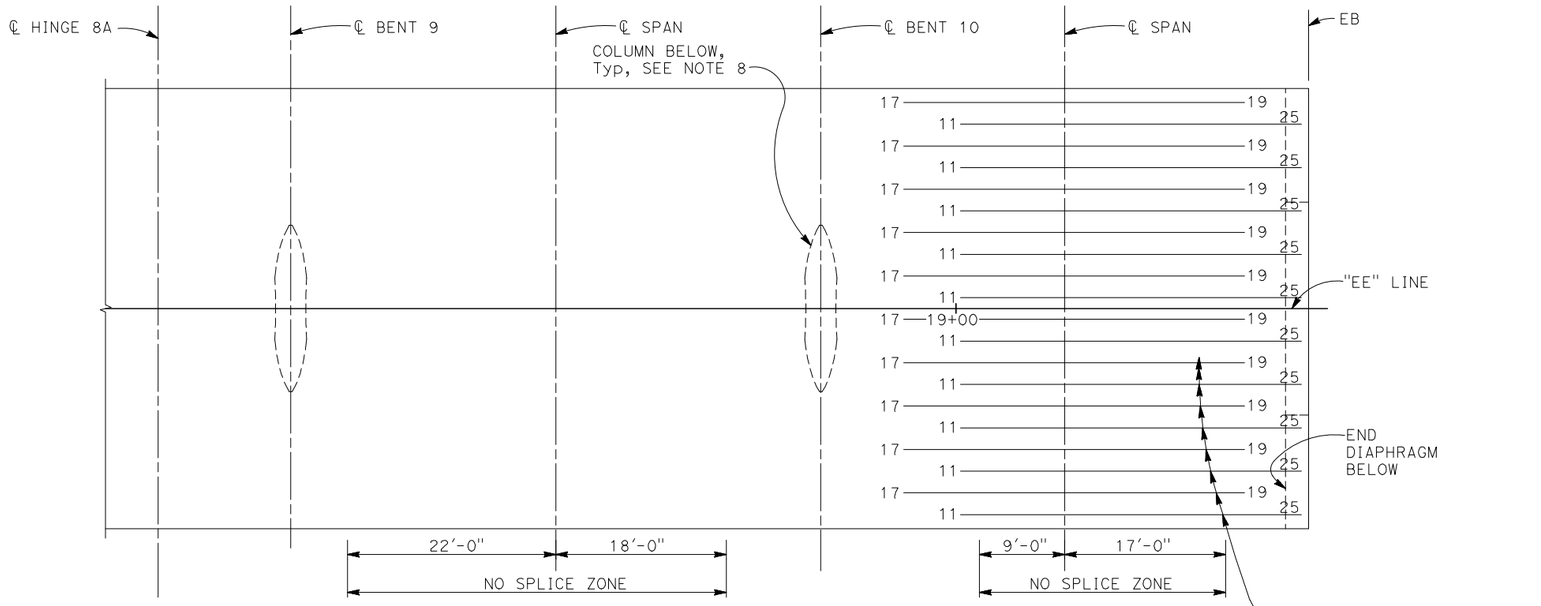
2018057SRB_S39



EAST APPROACH STRUCTURE

ADDITIONAL TOP SLAB REINFORCEMENT

NO SCALE



EAST APPROACH STRUCTURE

ADDITIONAL BOTTOM SLAB REINFORCEMENT

NO SCALE

NOTE:
For "NOTES", see "SLAB REINFORCEMENT PLAN No. 1" sheet.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	145	247

Daniel Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — DANIEL S ROSELLINI — No. C79105 — Exp.3/31/26 — CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

Robert Dees
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
SLAB REINFORCEMENT PLAN No. 3

(2018057SRB_S40)

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

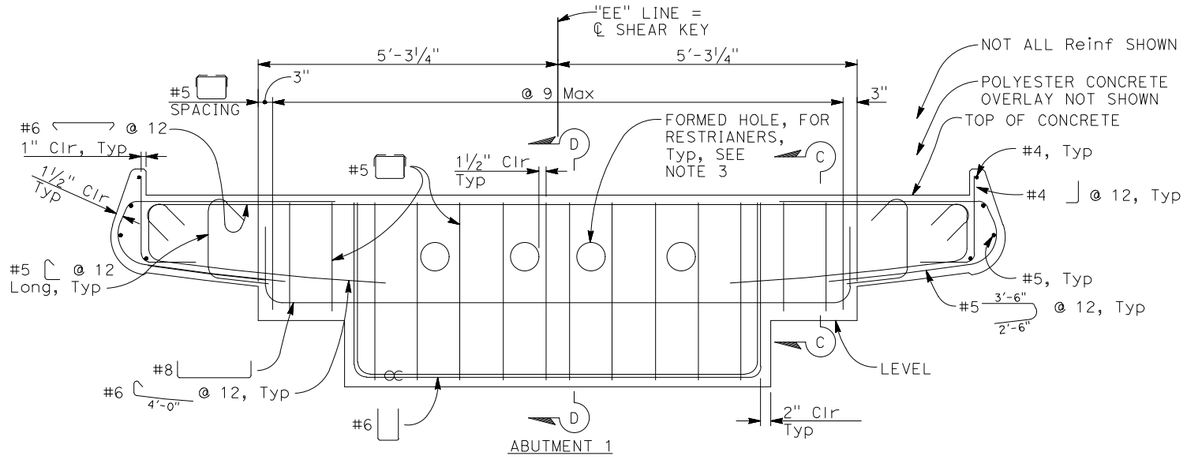
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

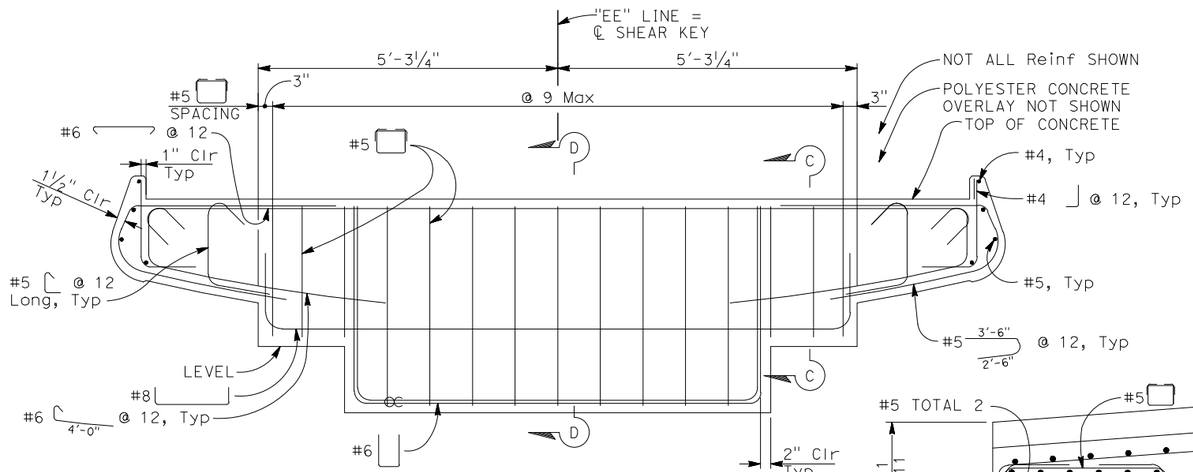
REVISION DATES				SHEET	OF
6-10-22	1-10-23	6-28-24	2-21-25	40	117

2018057



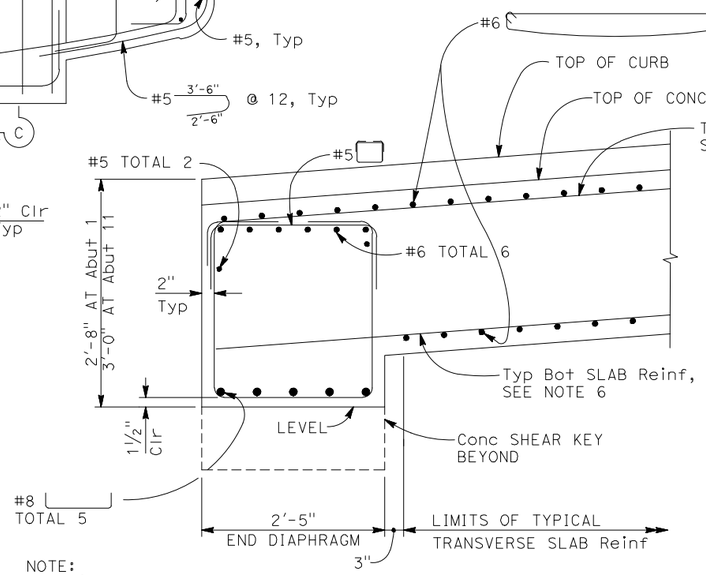
SECTION A-A

¾" = 1'-0"



SECTION B-B

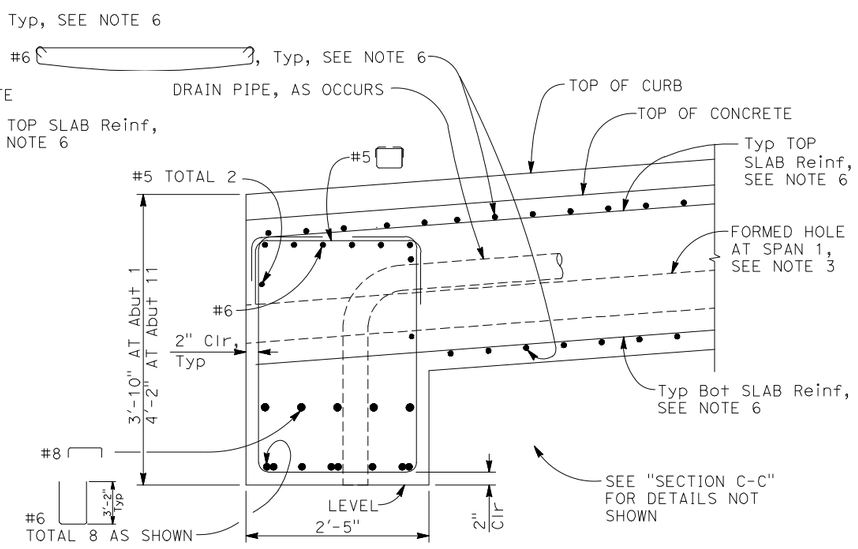
¾" = 1'-0"



NOTE:
End diaphragm at Abut 1 shown. End diaphragm at Abut 11 similar.

SECTION C-C

1" = 1'-0"



NOTE:
End diaphragm at Abut 1 shown. End diaphragm at Abut 11 similar.

SECTION D-D

1" = 1'-0"

NOTES:
1. All transverse dimensions are measured normal to "EE" Line.
2. Transverse reinforcement must be placed and spaced normal to "EE" Line.
3. Formed hole must be aligned to form a straight line the entire length of the restrainers and be parallel to the "EE" line. During construction hole ends must be capped to prevent debris intrusion. For details of formed hole extension in superstructure not shown, see "SLAB DETAILS No. 2" sheet.
4. For typical superstructure reinforcing not shown, see "APPROACH STRUCTURE TYPICAL SECTION" sheet.
5. Guard not shown. For guard and guard anchorage details, see "STANCHION DETAILS" sheets and "GUARD DETAILS" sheets.
6. For typical slab reinforcing details, see "APPROACH STRUCTURE TYPICAL SECTION" sheet.
7. For end diaphragm details not shown, see "ABUTMENT 1 DETAILS" and "ABUTMENT 11 DETAILS" sheets.

LEGEND:
℄ Indicates Bundled Bars

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	146	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — DANIEL S ROSELLINI — No. C79105 — Exp.3/31/26 — CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

Robert Peo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
SLAB DETAILS No. 1

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 5:00pm
FILE => 2018057SRB_S41.dwg USERNAME => SMH
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

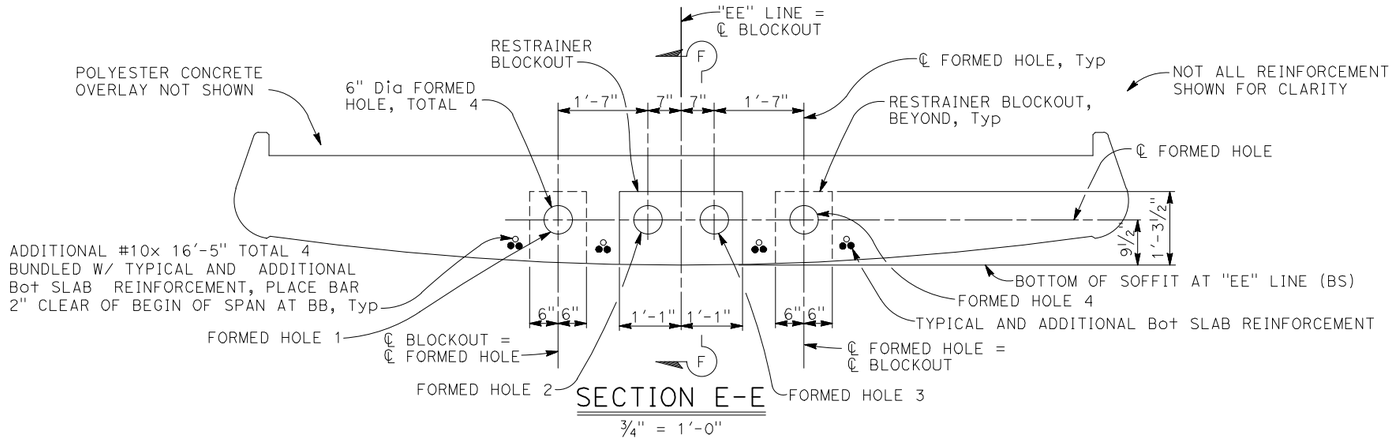
PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES			
6-10-22	1-10-23	6-28-24	2-21-25

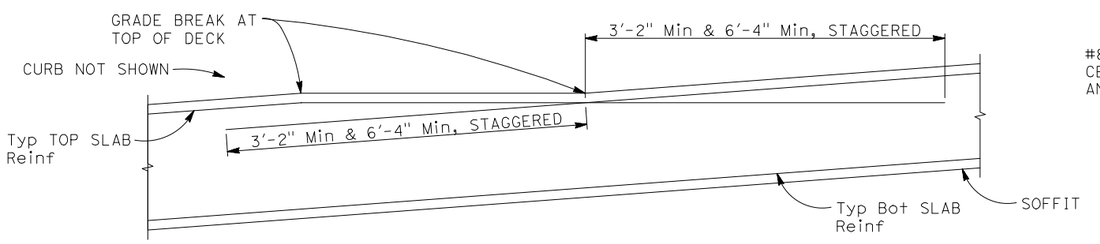
SHEET 41 OF 117

2018057 (2018057SRB_S41)



SECTION E-E

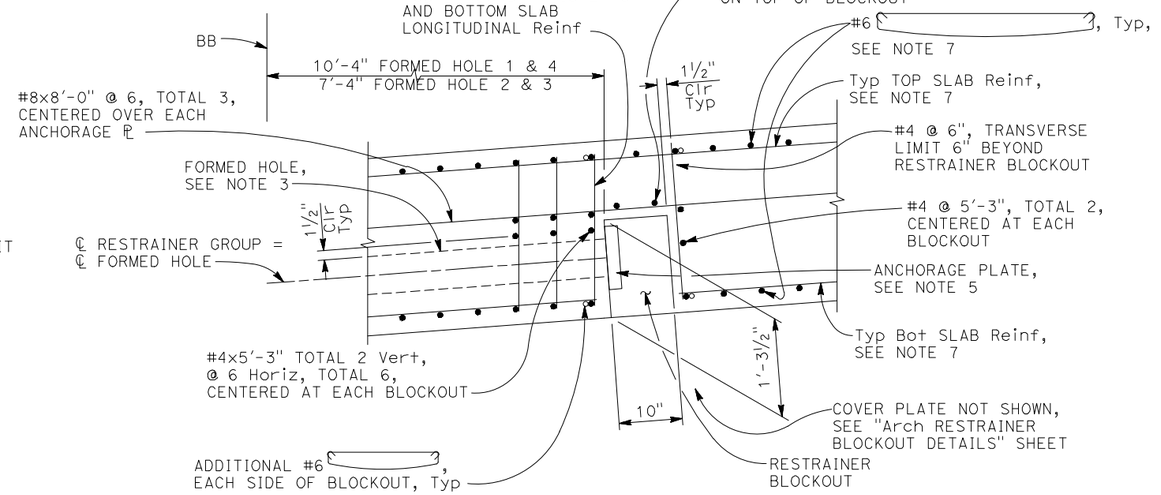
¾" = 1'-0"



TYPICAL CONTINUOUS TOP AND BOTTOM SLAB REINFORCEMENT
AT GRADE BREAKS - ELEVATION

DETAIL 3

¾" = 1'-0"



SECTION F-F

1" = 1'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	147	247

Daniel C Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER
DANIEL S ROSELLINI
No. C79105
Exp. 3/31/26
CIVIL
STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

NOTES:

1. All transverse dimensions are measured normal to "EE" Line.
2. Transverse reinforcement must be placed and spaced normal to "EE" Line.
3. Formed hole must be aligned to form a straight line the entire length of the restrainers and be parallel to the "EE" line. During construction hole ends must be capped to prevent debris intrusion.
4. Replace each typical bottom slab reinforcing with additional reinforcing in size and number to bars cut by restrainer blockout. Extend additional reinforcement to a minimum of 80 bar diameters beyond each side of blockout as space permits. Bundle bars as required.
5. For anchorage plate details, see "DETAIL 1" on "ABUTMENT DETAILS No. 1" sheet.
6. Guard not shown. For guard and guard anchorage details, see "STANCHION DETAILS" sheets and "GUARD DETAILS" sheets.
7. For typical slab reinforcing details, see "APPROACH STRUCTURE TYPICAL SECTION" sheet.

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
SLAB DETAILS No. 2

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

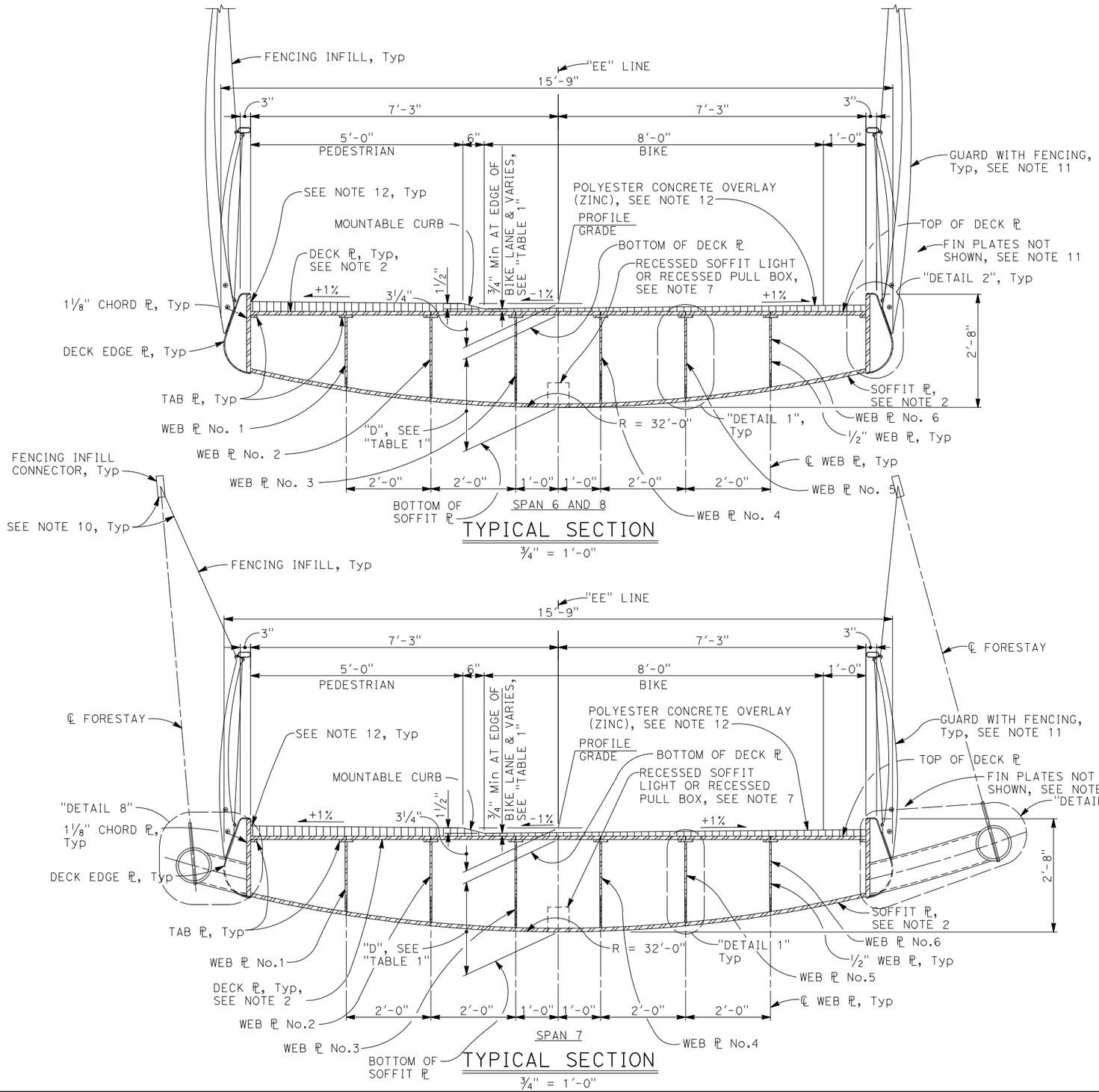
DATE PLOTTED => May 01, 2025 TIME PLOTTED => 5:00pm
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES: 6-10-22 | 1-18-23 | 6-28-24 | 2-21-25

SHEET 42 OF 117

(2018057SRB_S42)
2018057



TYPICAL SECTION

¾" = 1'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	148	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — DANIEL S ROSELLINI — No. C79105 — Exp. 3/31/26 — CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

NOTES:

1. All transverse dimensions are measured normal to "EE" Line.
2. For deck plate and soffit plate thickness and limits, see "STEEL BOX FRAMING PLAN" sheets. For deck/soffit plate thickness transition, see "DETAIL 3".
3. Top of steel deck plates must be level transversely.
4. For drainage details, see "DECK DRAINAGE DETAILS" sheet.
5. For "DETAIL 1", "DETAIL 2", and "DETAIL 3", see "STEEL BOX DETAILS No. 1" sheet.
6. For "DETAIL 8" and "DETAIL 9", see "STEEL BOX DETAILS No. 4" sheet.
7. Opening in soffit plate for recessed soffit lights and recessed pull boxes must be circular and must not exceed 6 inches in diameter. For locations and details of recessed soffit lights and recessed pull boxes, see ELECTRICAL PLANS.
8. Fin plates must be located at locations of fencing stanchions. For fin plate geometry, see "STANCHION GEOMETRICS" sheet. For fin plate to chord plate connection details, see "STANCHION DETAILS No. 2" sheet. For deck edge plate details at fin plates, see "SECTION H-H" on "STEEL BOX DETAILS No. 4" sheet.
9. For additional web plates and tab plates at Bents 7 and 8 not shown, see "COLUMN/BOX CONNECTION DETAILS" sheets.
10. For fencing infill and fencing infill connector details, see "STAY CABLE FENCING DETAILS" sheet and "GUARD WITH FENCING DETAILS" sheets.
11. For guard with fencing limits and details, see "GUARD AND FENCING LAYOUT" and "GUARD WITH FENCING DETAILS" sheets.
12. See "POLYESTER Conc OVERLAY DETAILS" sheet for limits of integrally-colored polyester concrete overlay (zinc) and interface details of polyester concrete overlay at chord plate.

LEGEND:

▭ Indicates Polyester Concrete Overlay (Zinc)

TABLE 1

DECK ℄ THICKNESS	"D"	Min POLYESTER CONCRETE OVERLAY THICKNESS
¾"	2'-2⅛"	1"
1"	2'-2⅛"	¾"
1¼"	2'-1⅞"	¾"

Rakesh Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
PRINCIPAL SPAN TYPICAL SECTION

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 5:01pm
FILE => 2018057SRB_543.dwg USERNAME => SMH
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES			
5-18-22		2-21-25	5-2-25

SHEET 43 OF 117

2018057SRB_543

NOTES:
1. Deck ℄ and Soffit ℄ not shown.
2. All transverse dimensions are measured perpendicular to the "EE" Line, UON.
3. For "SECTION A-A", see "STEEL BOX DETAILS No. 2" sheet.
4. For "SECTION E-E", see "STEEL BOX DETAILS No. 3" sheet.
5. For tuned mass damper details, see "TUNED MASS DAMPER DETAILS" sheets.
6. For bolted splice details, see "STEEL BOX DETAILS No. 3" sheet.
7. For HSS stringer joint details, see "STEEL BOX DETAILS No. 5" sheet.
8. For deck plate and soffit plate thickness transition details, see "DETAIL 3" on "STEEL BOX DETAILS No. 1" sheet.
9. For additional web plate details, see "COLUMN/BOX CONNECTION DETAILS No. 1" sheet.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	149	247

Daniel Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

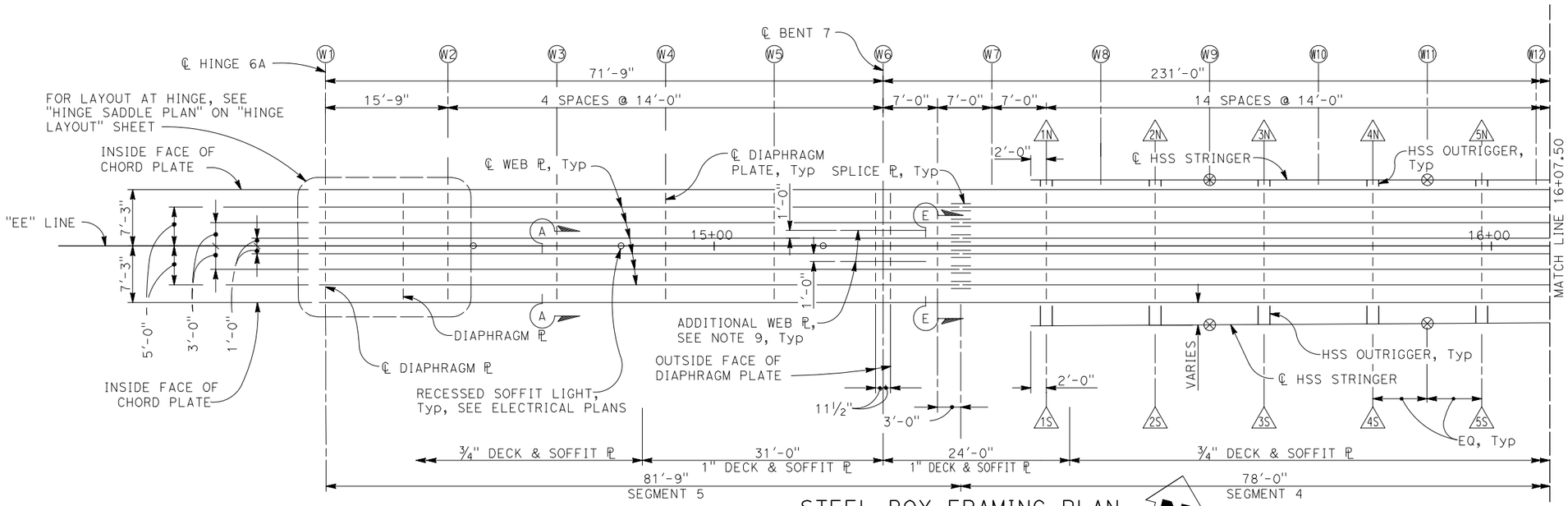
REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp. 3/31/26 CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

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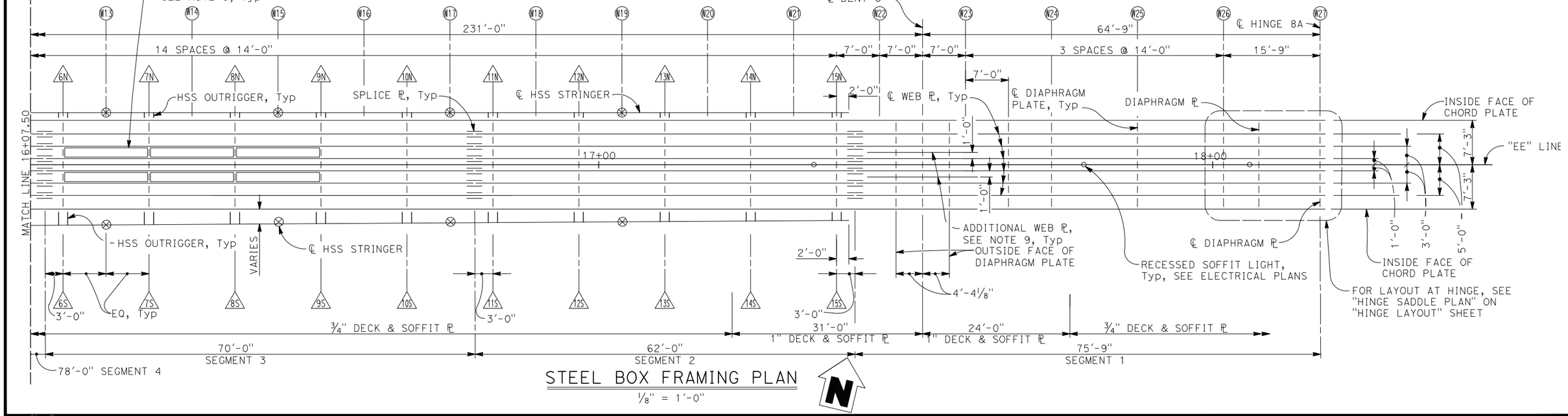
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126



LEGEND:
- (W27) Indicates work point measured along "EE" Line
- (15N) Indicates Forestay Work Point (N = North Side; S = South Side)
- = Indicates Bolted Splice
- ⊗ Indicates HSS stringer joint

STEEL BOX FRAMING PLAN
1/8" = 1'-0"



STEEL BOX FRAMING PLAN
1/8" = 1'-0"

(2018057SRB_S44)

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
STEEL BOX FRAMING PLAN No. 1

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

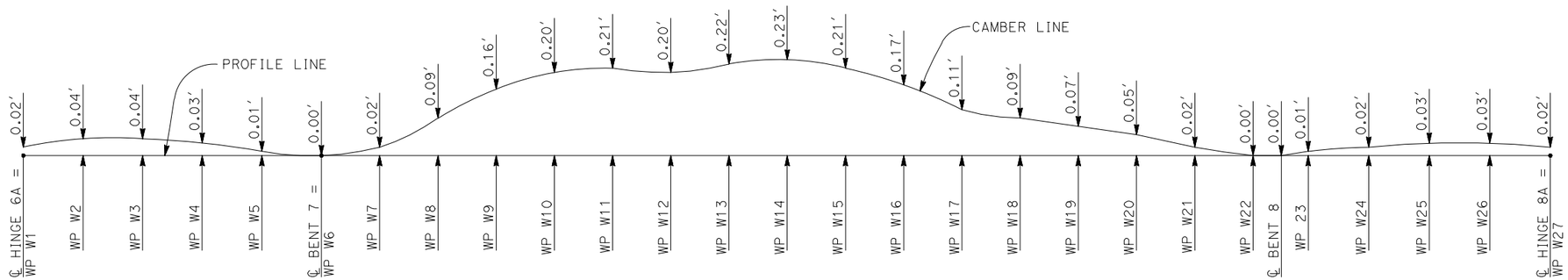
DATE PLOTTED => May 01, 2025 TIME PLOTTED => 5:01pm
FILE => 2018057SRB_S44.dwg USERNAME => SMH
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES: 6-10-22 | 1-10-23 | 6-28-24 | 10-4-24

SHEET 44 OF 117

2018057



NOTE:
Camber does not include allowance for falsework settlement.

CAMBER DIAGRAM-PRINCIPAL SPAN STRUCTURE

NO SCALE

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	150	247

Daniel C Rosellini 5/2/25
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

NOTES:

1. For steel box typical section, see "PRINCIPAL SPAN TYPICAL SECTION" sheet.
2. Camber is measured as a vertical offset from the profile grade.
3. For dimensions "F", "G", "H", and "J", see "STEEL BOX DETAILS No. 4" sheet.

STEEL BOX GEOMETRY TABLE

WORK POINT	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14	W15	W16	W17	W18	W19	W20
"EE" STATION	14+51.75	14+65.75	14+79.75	14+93.75	15+07.75	15+21.75	15+35.75	15+49.75	15+63.75	15+77.75	15+91.75	16+05.75	16+19.75	16+33.75	16+47.75	16+61.75	16+75.75	16+89.75	17+03.75	17+17.75
TOP OF CURB Elev (ft)	171.01	171.57	172.10	172.59	173.05	173.47	173.87	174.23	174.58	174.86	175.04	175.11	175.08	174.95	174.71	174.36	173.91	173.35	172.71	172.05
PROFILE GRADE Elev (ft)	170.79	171.35	171.88	172.37	172.83	173.25	173.65	174.01	174.36	174.64	174.82	174.90	174.86	174.73	174.49	174.14	173.69	173.13	172.49	171.83
BOTTOM OF SOFFIT Elev at "EE" Line (ft)	168.35	168.90	169.43	169.92	170.38	170.81	171.20	171.56	171.91	172.19	172.37	172.45	172.42	172.28	172.04	171.69	171.24	170.69	170.04	169.38

STEEL BOX GEOMETRY TABLE

WORK POINT	W21	W22	W23	W24	W25	W26	W27
"EE" STATION	17+31.75	17+45.75	17+59.75	17+73.75	17+87.75	18+01.75	18+15.75
TOP OF CURB Elev (ft)	171.39	170.73	170.08	169.42	168.76	168.10	167.44
PROFILE GRADE Elev (ft)	171.17	170.51	169.86	169.20	168.54	167.88	167.22
BOTTOM OF SOFFIT Elev at "EE" Line (ft)	168.72	168.07	167.47	166.75	166.09	165.43	164.78

OUTRIGGER GEOMETRY TABLE-NORTH

FORESTAY WORK POINT	1N	2N	3N	4N	5N	6N	7N	8N	9N	10N	11N	12N	13N	14N	15N
"EE" STATION	15+42.75	15+56.75	15+70.75	15+84.75	15+98.75	16+12.75	16+26.75	16+40.75	16+54.75	16+68.75	16+82.75	16+96.75	17+10.75	17+24.75	17+38.75
FORESTAY ANCHOR WP Horiz OFFSET LEFT FROM "EE" LINE "F" (ft)	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61
FORESTAY ANCHOR WP Vert OFFSET "G" (ft)	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
GUSSET ℄ OFFSET "A"	2′-6⅜"	2′-4"	2′-1½"	1′-11⅛"	1′-8¾"	1′-6⅝"	1′-4½"	1′-2½"	1′-0⅝"	0′-10¾"	0′-9"	0′-7¼"	0′-5⅝"	0′-4⅛"	0′-2½"

OUTRIGGER GEOMETRY TABLE-SOUTH

FORESTAY WORK POINT	1S	2S	3S	4S	5S	6S	7S	8S	9S	10S	11S	12S	13S	14S	15S
"EE" STATION	15+42.75	15+56.75	15+70.75	15+84.75	15+98.75	16+12.75	16+26.75	16+40.75	16+54.75	16+68.75	16+82.75	16+96.75	17+10.75	17+24.75	17+38.75
FORESTAY ANCHOR WP Horiz OFFSET RIGHT FROM "EE" LINE "H" (ft)	10.68	10.56	10.45	10.33	10.22	10.10	9.98	9.91	9.84	9.76	9.69	9.61	9.54	9.46	9.39
FORESTAY ANCHOR WP Vert OFFSET "J" (ft)	0.21	0.25	0.29	0.33	0.37	0.41	0.45	0.47	0.50	0.52	0.55	0.57	0.60	0.62	0.64
GUSSET ℄ OFFSET "A"	2′-4½"	2′-2⅜"	2′-0"	1′-9¾"	1′-7⅝"	1′-5⅝"	1′-3⅝"	1′-1¾"	1′-0"	0′-10¼"	0′-8⅝"	0′-7"	0′-5½"	0′-4"	0′-2½"

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
STEEL BOX FRAMING PLAN No. 2

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 5:01pm
FILE => 2018057SRB_545.dwg USERNAME => SMH
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PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

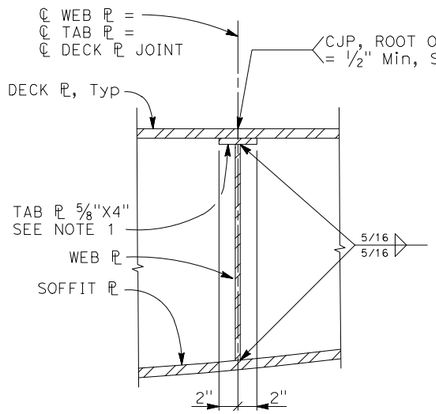
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES			
6-10-22	1-10-23	6-28-24	10-4-24

SHEET 45 OF 117

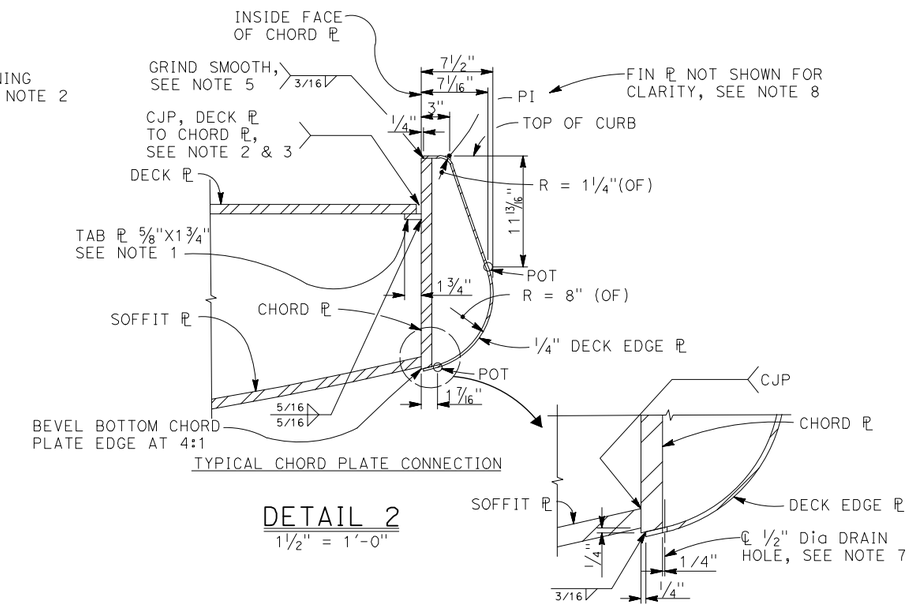
2018057

[2018057SRB_545]



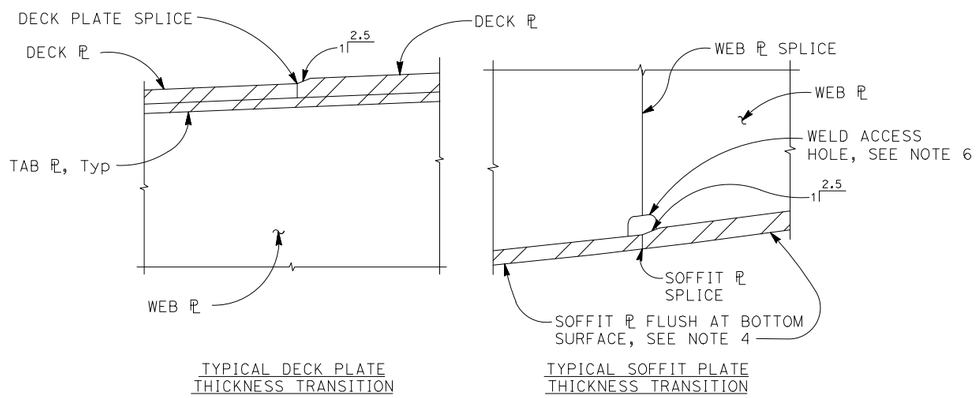
TYPICAL WEB PLATE CONNECTION

DETAIL 1
1 1/2" = 1'-0"



TYPICAL CHORD PLATE CONNECTION

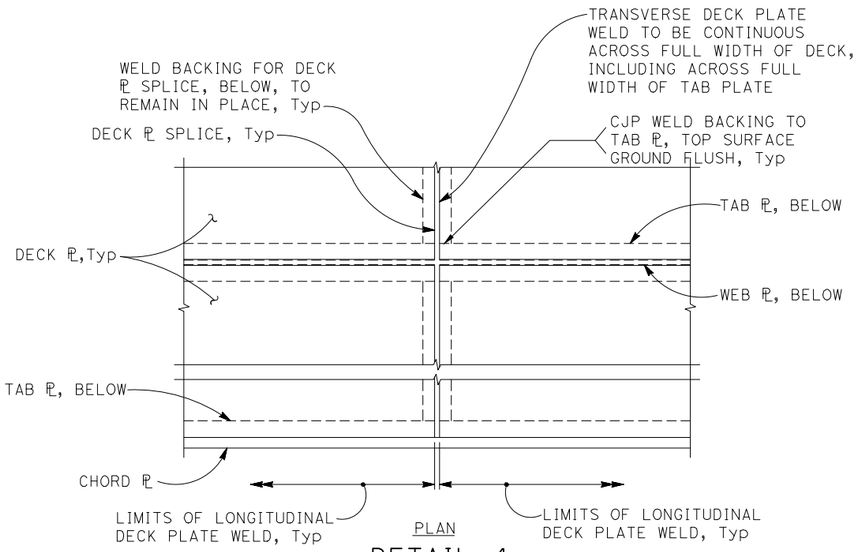
DETAIL 2
1 1/2" = 1'-0"



TYPICAL DECK PLATE THICKNESS TRANSITION

TYPICAL SOFFIT PLATE THICKNESS TRANSITION

DETAIL 3
3" = 1'-0"



PLAN

DETAIL 4
1 1/2" = 1'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	151	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — DANIEL S ROSELLINI — No. C79105 — Exp.3/31/26 — CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

NOTES:

1. Tab plates must meet all requirements specified for backing for welds.
2. Deck plate weld must have the weld metal thoroughly fused with the tab plate. The maximum gap between the tab plate and the deck plate at the weld root must not be greater than 1/16 inch.
3. Incorporate weld of tab plate to chord plate into weld of deck plate to chord plate.
4. The tolerance of misalignment of the exterior face of abutting soffit plates must be one-half of that specified in AWS D1.5M/D1.5.
5. Grind outside corner of chord plate-to-deck edge plate connection at curb to smooth and uniform 5/16" convex radius. Finish must provide a smooth transition to the connected surfaces. Weld size shown is minimum size after finishing and may be oversized and ground to profile.
6. Terminate weld of web plate to soffit plate a distance equal to the weld size away from the weld access hole.
7. Drain holes must be located 1" from fin plates.
8. Fin plates must be located at locations of fencing stanchions. For fin plate geometry, see "STANCHION GEOMETRICS" sheet. For fin plate to chord plate connection details, see "STANCHION DETAILS No. 2" sheet. For deck edge plate details at fin plates, see "SECTION H-H" on "STEEL BOX DETAILS No. 4" sheet.

Rakesh Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
STEEL BOX DETAILS No. 1

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 5:02pm
FILE => 2018057SRB_S46.dwg USERNAME => SMH
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES			
~~6-10-22~~		2-21-25	~~10-4-24~~

SHEET	OF
46	117

2018057
[2018057SRB_S46]

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	152	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

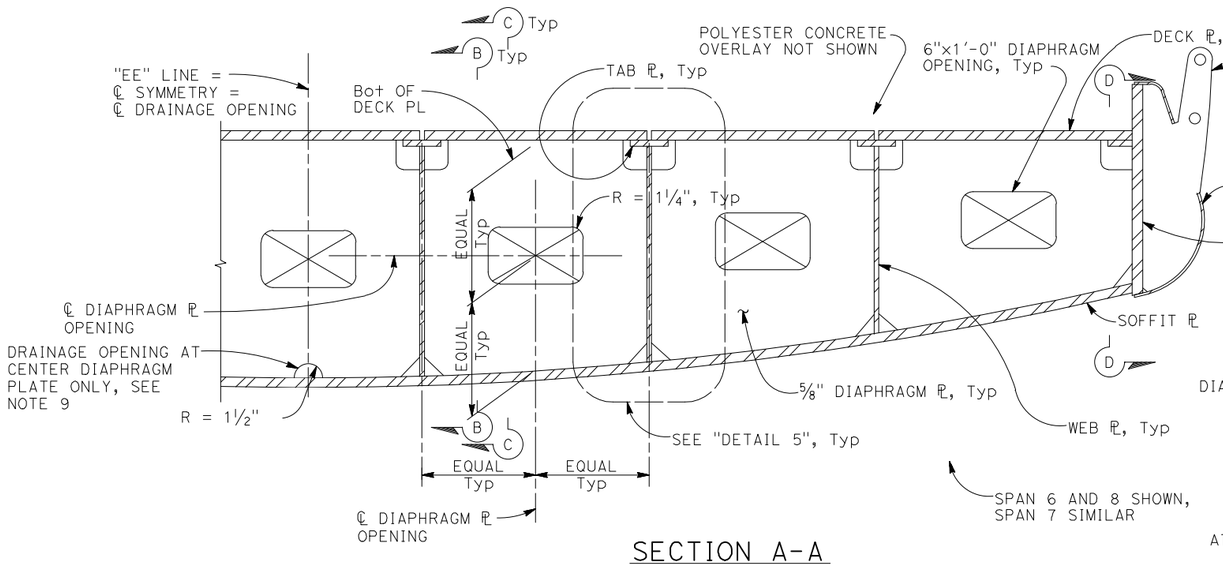
REGISTERED PROFESSIONAL ENGINEER — DANIEL S ROSELLINI — No. C79105 — Exp.3/31/26 — CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

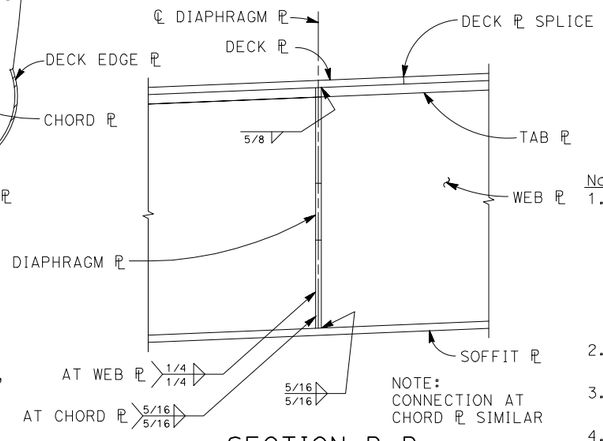
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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126



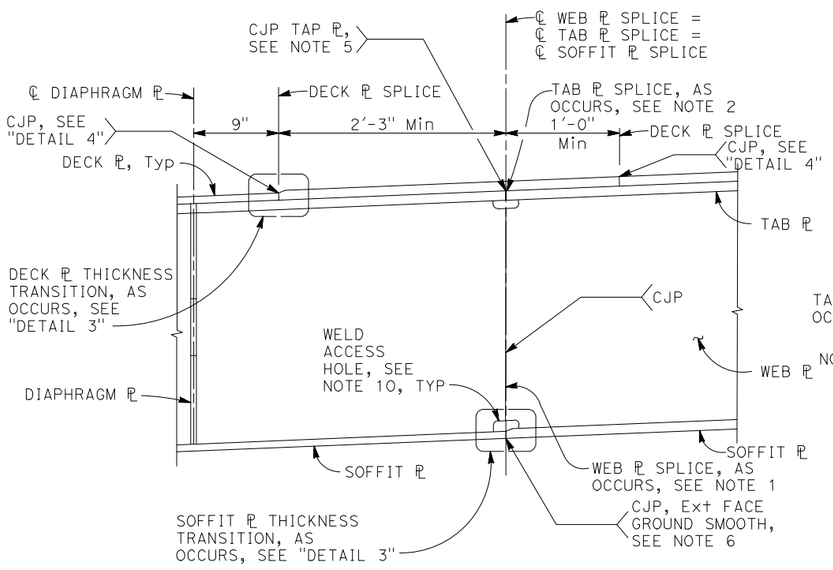
SECTION A-A
1½" = 1'-0"



SECTION B-B
1½" = 1'-0"

Notes:

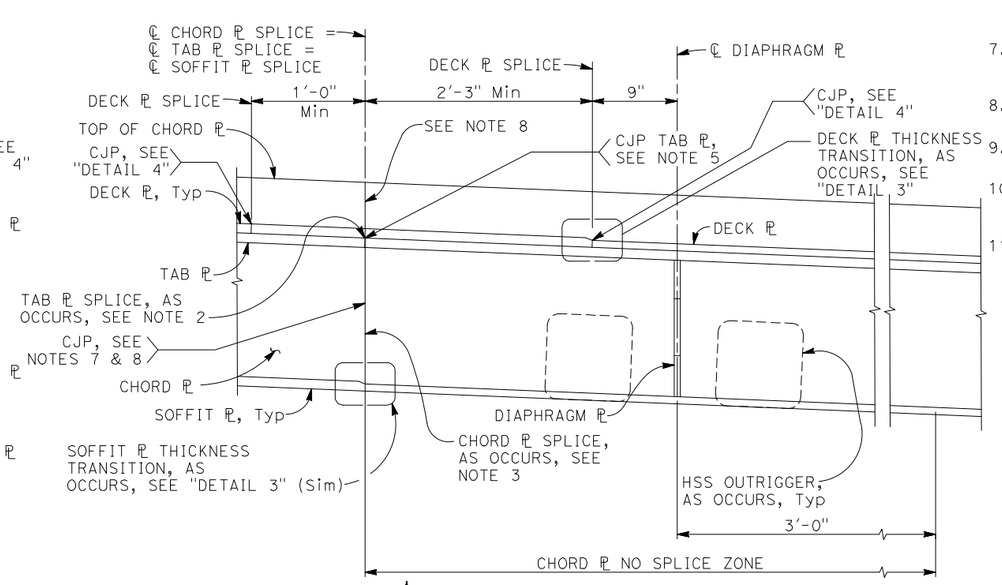
1. Web plate splice required at locations of soffit plate thickness transition. At Contractor's option, web plate splice and weld access hole at bottom of web plate may be omitted where soffit plate thickness is equal at both sides of splice. If weld access hole at bottom of web plate is omitted, top surface of soffit plate splice weld must be ground flush at web plate and web plate must be continuously welded to soffit plate through soffit plate splice.
2. Splice tab plates at locations of web plate splices and chord plate splices.
3. At Contractor's option, chord plate may be continuous through soffit plate splice.
4. For "DETAIL 3" and "DETAIL 4", see "STEEL BOX DETAILS No. 1" sheet.
5. Top surface of tab plate splice weld must be ground flush to allow full contact of deck plate to tab plate.
6. The tolerance of misalignment of the exterior face of abutting soffit plates must be one-half of that specified in AWS D1.5M/D1.5. Welds must be ground smooth with adjacent surfaces and weld profile must be consistent along the full length of the weld.
7. Grind weld flush at top and bottom of chord plate. Alignment of abutting chord plates must allow for full bearing of deck edge plate across joint.
8. Welds at interior face of chord plate above deck plate must be ground smooth.
9. Weld of diaphragm plate to soffit plate must extend around edges of drainage opening.
10. Terminate weld of web plate to soffit plate and weld of web plate to tab plate a distance equal to the weld size away from the weld access hole.
11. Welds identified as ground smooth must be uniform and continuous and be blended to provide a smooth transition to the connected surfaces.



SHOP SPLICE

SECTION C-C
1½" = 1'-0"

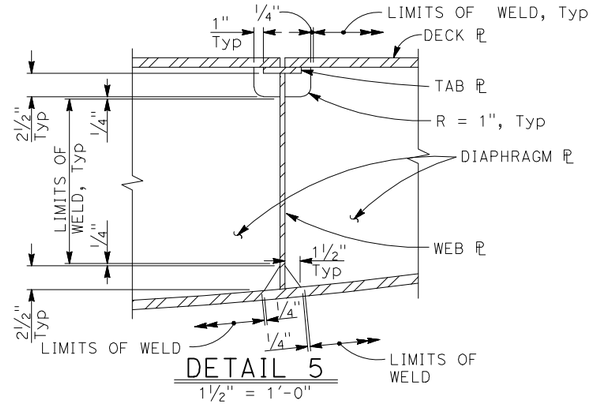
NOTE:
Shop splice at location of soffit plate and deck plate transitions shown. Other shop splices similar, see Note 1



SHOP SPLICE

SECTION D-D
1½" = 1'-0"

NOTE:
Shop splice at location of soffit plate and deck plate transitions shown. Other shop splices similar, see Note 1



DETAIL 5
1½" = 1'-0"

Rakesh Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
STEEL BOX DETAILS No. 2

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

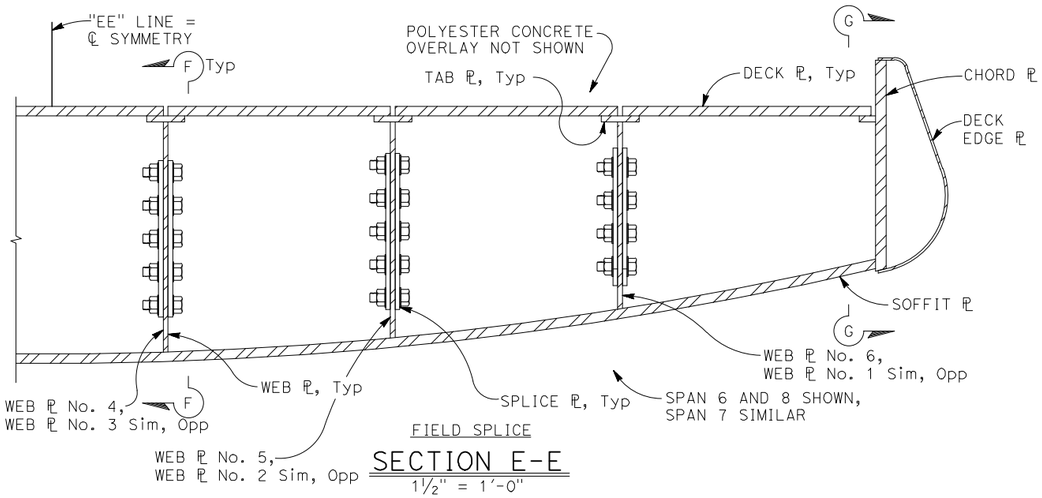
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES			SHEET	OF
6-10-22	2-21-25	10-4-24	47	117

2018057 (2018057SRB_S47)



SECTION E-E
1½" = 1'-0"

RECOMMENDED FIELD BOLT INSTALLATION SEQUENCE

1. Install erection or drift pins in a minimum of 4 bolt holes on each side of the splice.
2. Install bolts in all remaining holes of the connection.
3. Remove the erection or drift pins and install bolts in these holes.
4. Bring the connection to a full snug-tight condition by snugging systematically from the most rigid part of the connection to the free edges. Re-snug all snugged bolts that may have relaxed as a result of the subsequent snugging of adjacent bolts to ensure all bolts are simultaneously snug-tight and the connection plates are in full contact.
5. If snugging does not bring the plies of the joint into full contact, install and fully tighten a minimum of 4 bolts on each side of the splice to attain firm, full contact between plies. Mark these bolts as fitup bolts. Do not use direct tension indicator devices on fitup bolts.
6. Fully tension all non-fitup bolts in connection.
7. Remove or fully loosen all fitup bolts after tensioning all the other bolts in the connection.
8. Install and fully tighten bolts in fitup bolt holes.
9. Contractor may propose alternative field bolt installation sequence for review and approval by the Engineer. Approval of the proposed alternate field bolt installation sequence is at the sole discretion of the Engineer.
10. Terminate weld of web plate to soffit plate and weld of web plate to tab plate a distance equal to the weld size away from the weld access hole.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	153	247

Daniel Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — DANIEL S ROSELLINI — No. C79105 — Exp.3/31/26 — CIVIL — STATE OF CALIFORNIA

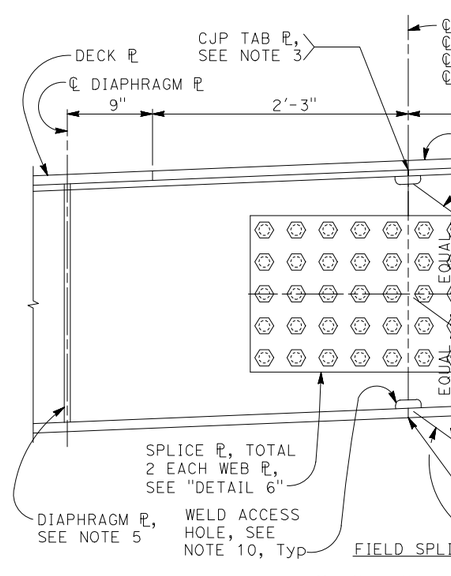
PLANS APPROVAL DATE

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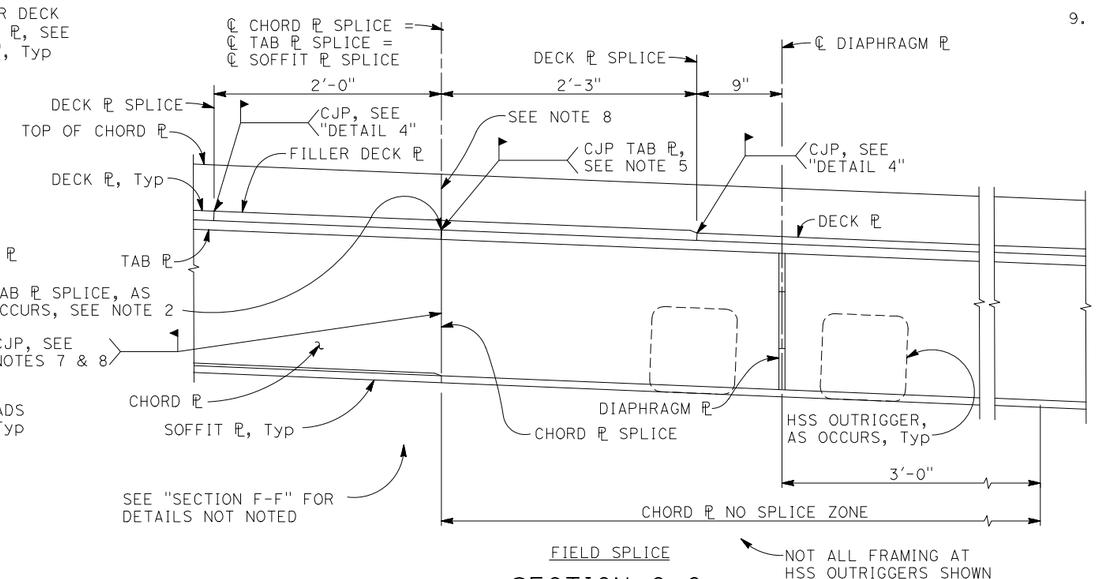
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

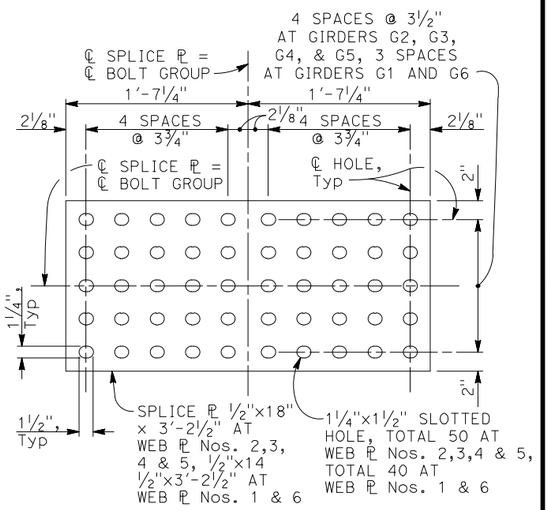
NOTES:
1. Bolt holes must be drilled full size or subpunched and reamed to size.
2. Bolt holes in web plates must be same dimensions as detailed for web plate splice plates.
3. Top surface of tab plate splice weld must be ground flush to allow full contact of deck plate to tab plate.
4. The tolerance of misalignment of the exterior face of abutting soffit plates must be one-half of that specified in AWS D1.5M/D1.5. Welds must be ground smooth with adjacent surfaces and weld profile must be consistent along the full length of the weld.
5. For diaphragm plate details, see "STEEL BOX DETAILS No. 2" sheet.
6. For "DETAIL 4", see "STEEL BOX DETAILS No. 1" sheet.
7. Grind weld flush at top and bottom edges of chord plate. Alignment of abutting chord plates must allow for full bearing of deck edge plate across joint.
8. Welds at interior face of chord plate above deck plate must be ground smooth.
9. Welds identified as ground smooth must be uniform and continuous and be filled and blended to provide a smooth transition to the connected surfaces.



SECTION F-F
1½" = 1'-0"



SECTION G-G
1½" = 1'-0"



DETAIL 6
1½" = 1'-0"

Robert Peo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

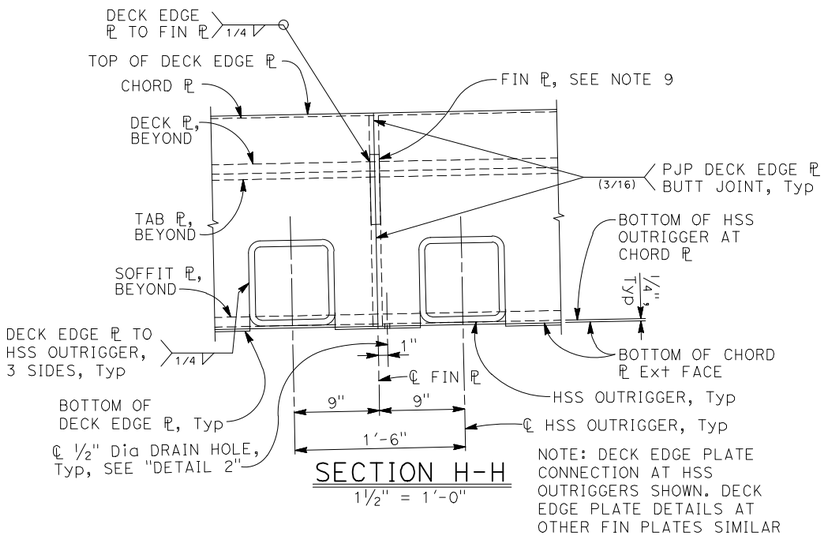
PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
STEEL BOX DETAILS No. 3

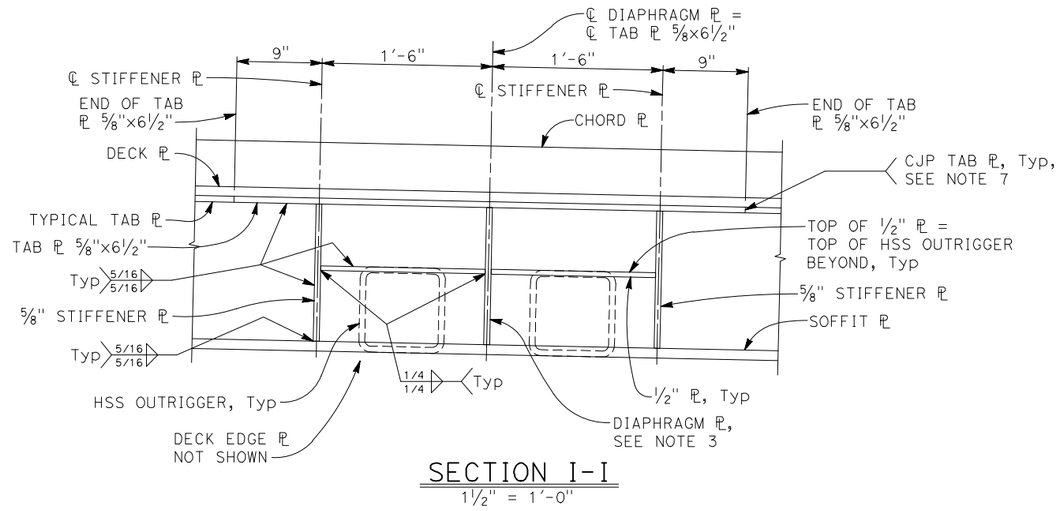
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FILE => 2018057SRB_548.dwg USERNAME => SMH
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3
PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340
DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES: 6-10-22 | 2-21-25 | 10-4-24
SHEET 48 OF 117
2018057 (2018057SRB_548)



SECTION H-H

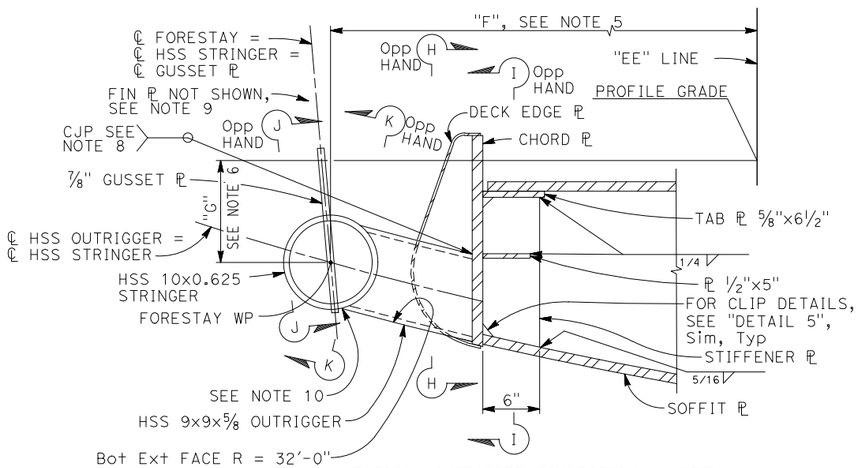
1½" = 1'-0"

NOTE: DECK EDGE PLATE CONNECTION AT HSS OUTRIGGERS SHOWN. DECK EDGE PLATE DETAILS AT OTHER FIN PLATES SIMILAR



SECTION I-I

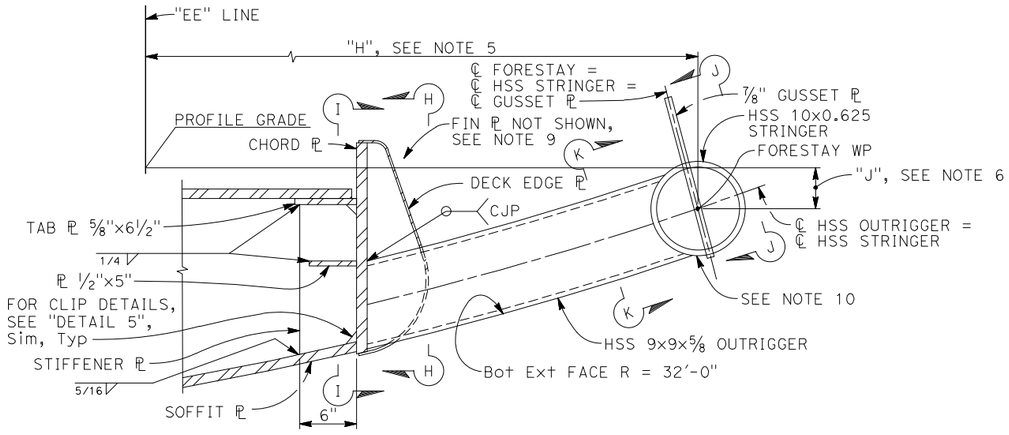
1½" = 1'-0"



TYPICAL OUTRIGGER CONNECTION - NORTH

DETAIL 7

1½" = 1'-0"



TYPICAL OUTRIGGER CONNECTION - SOUTH

DETAIL 8

1½" = 1'-0"

NOTES:

1. Joint preparation for corner welds of HSS box sections must provide a smooth transition from one side to another. Welding must be carried continuously around corners, with corners fully built up and all weld starts and stops within flat faces.
2. For dimensions "F", "G", "H", and "J", see "STEEL BOX FRAMING PLAN No. 2" sheet.
3. For diaphragm plate details, see "STEEL BOX DETAILS No. 2" sheet.
4. Welds identified as ground smooth must be uniform and continuous and be blended to provide a smooth transition to the connected surfaces.
5. Horizontal dimensions "F" and "H" are linear between working points shown.
6. Vertical dimensions "G" and "J" are linear between working points shown.
7. Top surface of tab plate splice weld must be ground flush to allow full contact of deck plate to tab plate.
8. Field weld at outriggers of Forestay Work Points 5N, 5S, 6N, and 6S. For Forestay Work Point locations, see "STEEL BOX FRAMING PLAN" sheets.
9. Fin plates must be located at locations of fencing stanchions. For fin plate geometry, see "STANCHION GEOMETRICS" sheet. For fin plate to chord plate connection details, see "STANCHION DETAILS No. 2" sheet.
10. Seam of HSS stringer must be located between the HSS outrigger bottom surface and gusset plate.
11. For "DETAIL 2", see "STEEL BOX DETAILS No. 1" sheet
12. For "DETAIL 5", see "STEEL BOX DETAILS No. 2" sheet.
13. For "SECTION J-J" and "SECTION K-K", see "STEEL BOX DETAILS No. 5" sheet.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	154	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — DANIEL S ROSELLINI — No. C79105 — Exp.3/31/26 — CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

Robert Peo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
STEEL BOX DETAILS No. 4

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

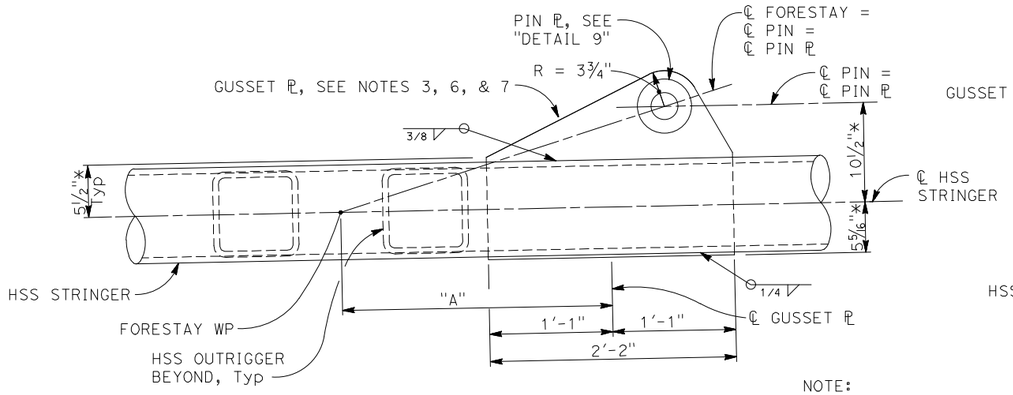
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

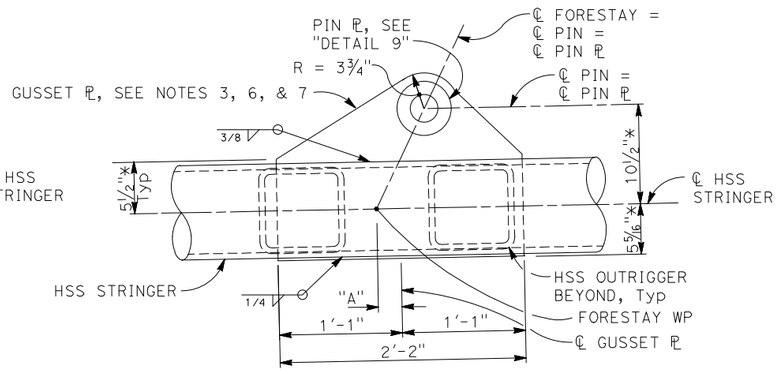
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
6-10-22		2-21-25	10-4-24	49	117

(2018057SRB_S49)
2018057



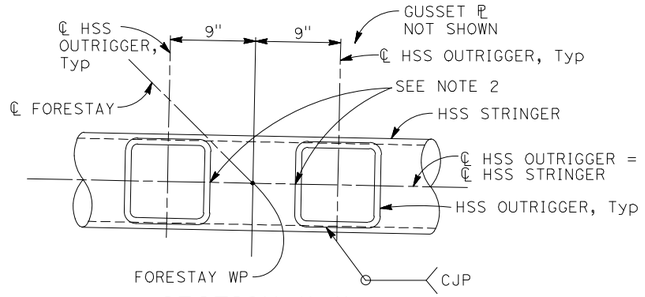
FORESTAY FS1S



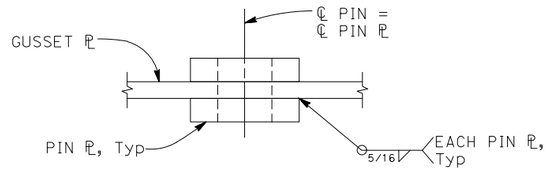
FORESTAY FS15S

NOTE:
Forestays FS1S and FS15S shown. Others similar.

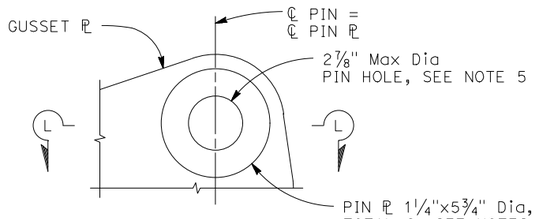
SECTION J-J
1½" = 1'-0"



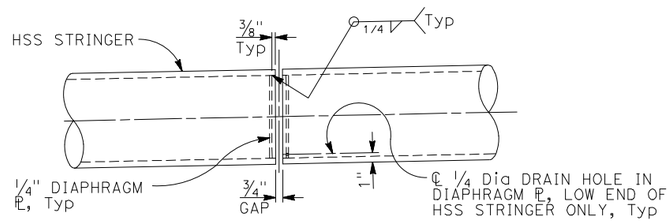
SECTION K-K
1½" = 1'-0"



SECTION L-L
3" = 1'-0"



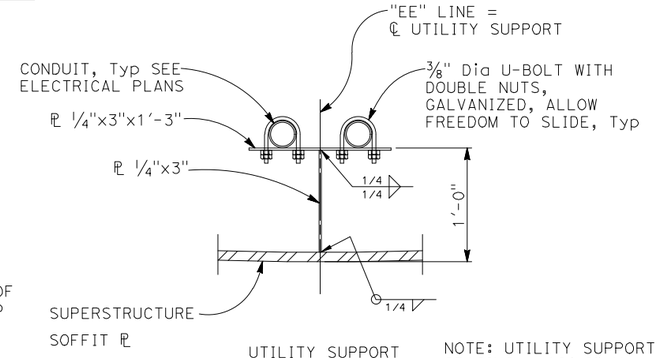
DETAIL 9
3" = 1'-0"



TYPICAL HSS STRINGER JOINT

DETAIL 10
1½" = 1'-0"

NOTE:
All dimensions measured normal to HSS stringer



UTILITY SUPPORT

DETAIL 11
1½" = 1'-0"

NOTE: UTILITY SUPPORT SPACING = 10'-0" Max

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	155	247

Daniel Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

NOTES:
1. For dimension "A", see "STEEL BOX FRAMING PLAN No. 2" sheet.
2. Seam of HSS outrigger must be located on on the vertical HSS face facing the the adjacent HSS outrigger.
3. Corners of gusset plate above HSS stringer and pin plates must be eased with ⅛" radius.
4. Dimensions designated by * are measured normal to HSS stringer.
5. Pin hole diameter must be determined by the cable supplier subject to review and approval by the Engineer. Maximum diameter of pin hole, excluding coating, must be not more than 1/16" greater than the diameter of the pin.
6. Gusset plates and pin plates must be galvanized, primed, and painted. Do not paint the interior surface of the pin holes.
7. Grind edges of gusset plate above HSS stringer and pin plates smooth of all roughness and shearing and cut markings.

Robert Peo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
STEEL BOX DETAILS No. 5

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

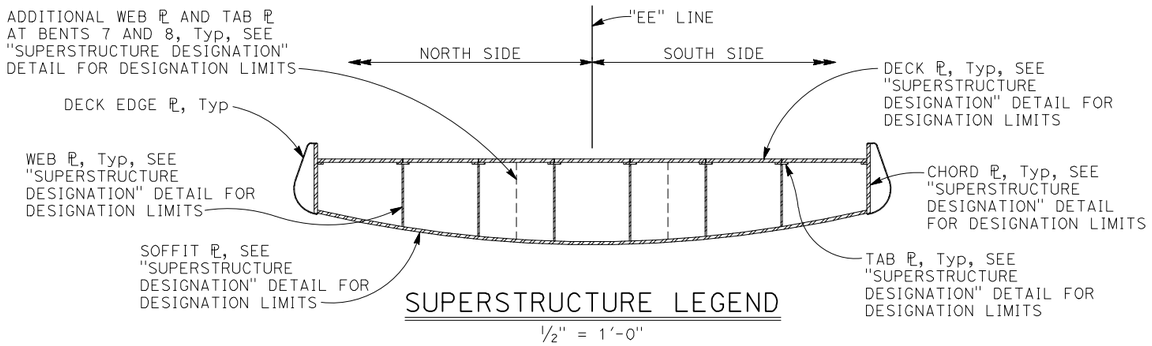
DATE PLOTTED => May 01, 2025 TIME PLOTTED => 5:03pm
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES: 6-10-22 | 1-10-23 | 6-28-24 | 10-4-24

SHEET 50 OF 117

(2018057SRB_S50)



SUPERSTRUCTURE LEGEND

½" = 1'-0"

NOTES:

1. Any attachment welded to a FCM member or FCM component of a member must meet all requirements of the FCP (including welding of the attachment) when any dimension of the attachment exceeds 4 inches in the direction parallel to the longitudinal axis of the member.
2. All welds to FCM must be considered fracture critical and must conform to the requirements of the FCP. Welds to compression members or compression areas of bending members must not be defined as fracture critical.
3. All steel members not designated as either fracture critical members or main members are secondary members.
4. Forestay and backstay cables and connection assemblies, including socket connections, are main tension members.
5. Base plates, transverse plates, and longitudinal plates at Bent 7 and Bent 8 column/box connections are FCM. ⅞" Diaphragm plates at Bents 7 and 8 are main tension members. See "COLUMN/BOX CONNECTION DETAILS" sheets.
6. Splice plates for main members and fracture critical members must be designated the same as the member being spliced.
7. For "SADDLE ASSEMBLY DESIGNATION", see "STEEL MEMBER DESIGNATION No. 2" sheet.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	156	247

Daniel S Rosellini — REGISTERED CIVIL ENGINEER — 5/2/25 DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DANIEL S ROSELLINI — No. C79105 — Exp. 3/31/26 — CIVIL — STATE OF CALIFORNIA

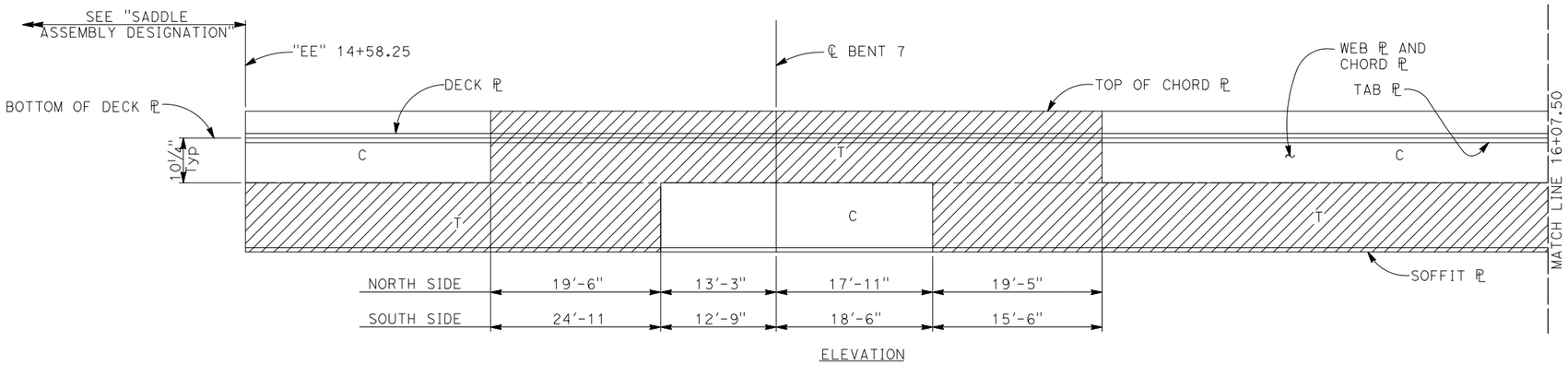
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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

LEGEND:

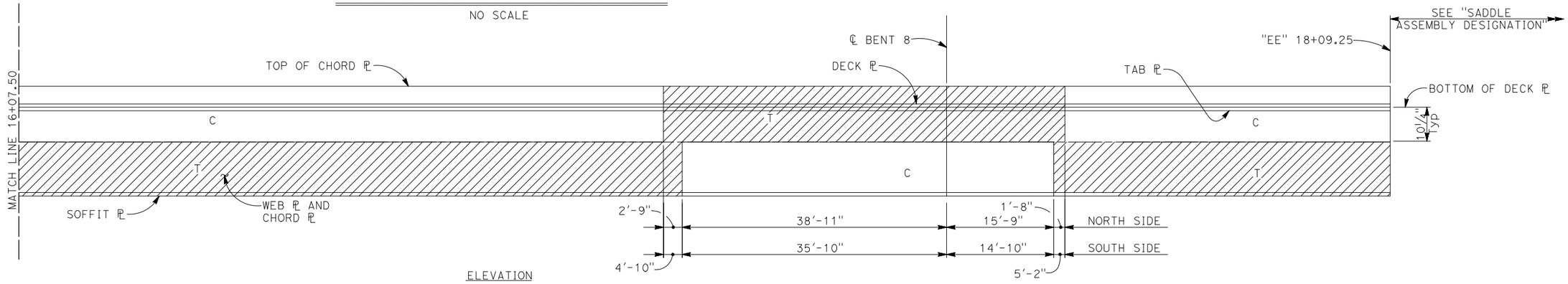
T	Indicates Main Tension Member
C	Indicates Main Compression Member
FCM	Indicates Fracture Critical Member
▨	Indicates Tension Zones of Main Members



ELEVATION

SUPERSTRUCTURE DESIGNATION

NO SCALE



ELEVATION

SUPERSTRUCTURE DESIGNATION

NO SCALE

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
STEEL MEMBER DESIGNATION No. 1

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 5:04pm
FILE => 2018057SRB_S51.dwg USERNAME => SMH
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES: 6-10-22 | 1-10-23 | 6-28-24 | 10-4-24

SHEET 51 OF 117

2018057 (2018057SRB_S51)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	157	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER DATE

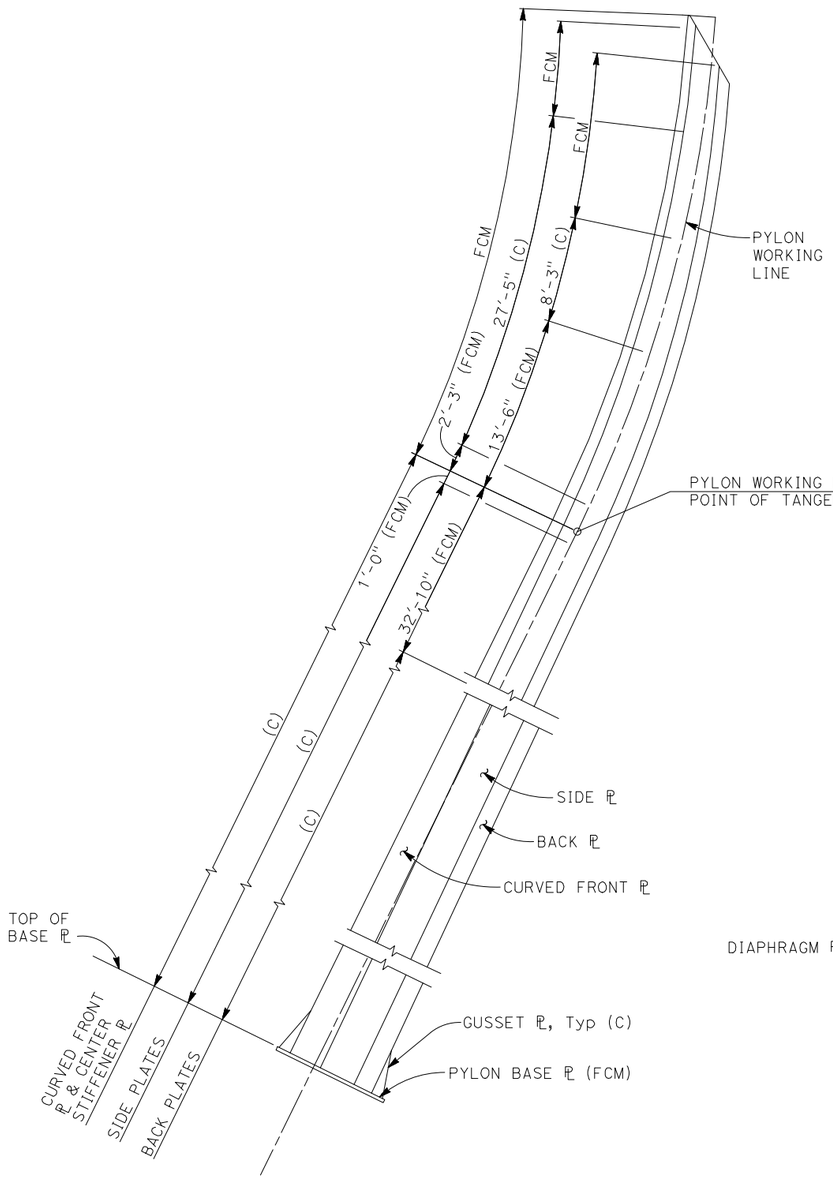
REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

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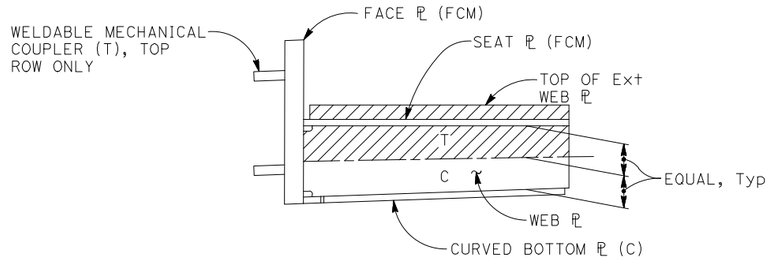
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126



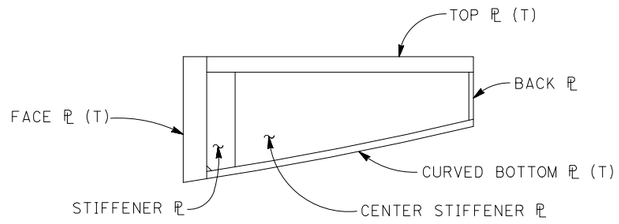
PYLON DESIGNATION

3/16" = 1'-0"



SEAT ASSEMBLY DESIGNATION

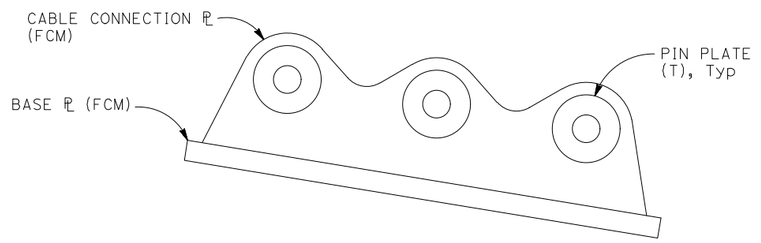
NO SCALE



SHEAR KEY ASSEMBLY DESIGNATION

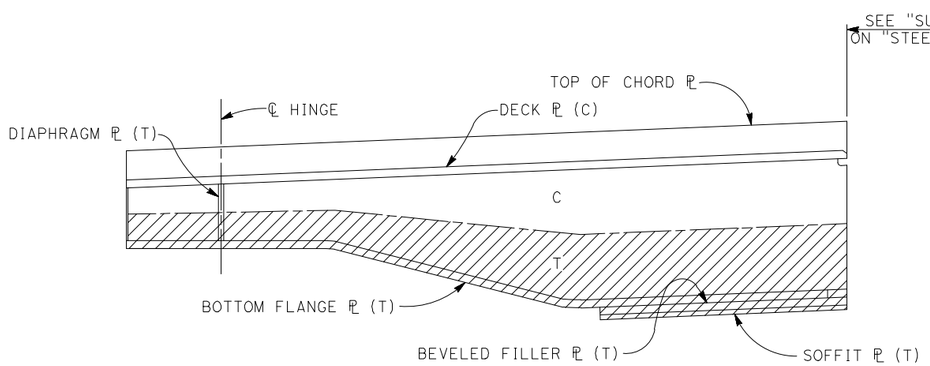
NO SCALE

NOTE:
For notes and legend, see "STEEL MEMBER DESIGNATION No. 1" sheet.



BACKSTAY ANCHOR ASSEMBLY DESIGNATION

NO SCALE

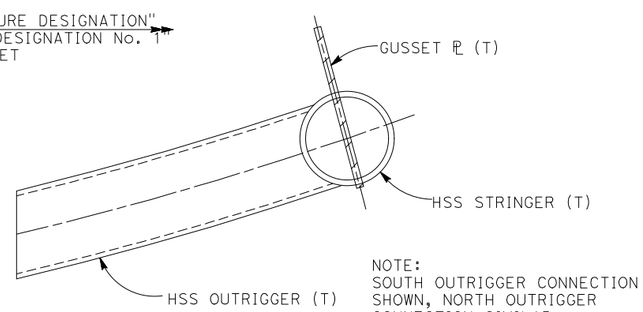


ELEVATION

SADDLE ASSEMBLY DESIGNATION

1" = 1'-0"

NOTE:
T and C zones shown extend to middle depth of web ℄



NOTE:
SOUTH OUTRIGGER CONNECTION SHOWN, NORTH OUTRIGGER CONNECTION SIMILAR

TYPICAL HSS OUTRIGGER, HSS STRINGER, GUSSET PLATE DESIGNATION

NO SCALE

Raheem Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
STEEL MEMBER DESIGNATION No. 2

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

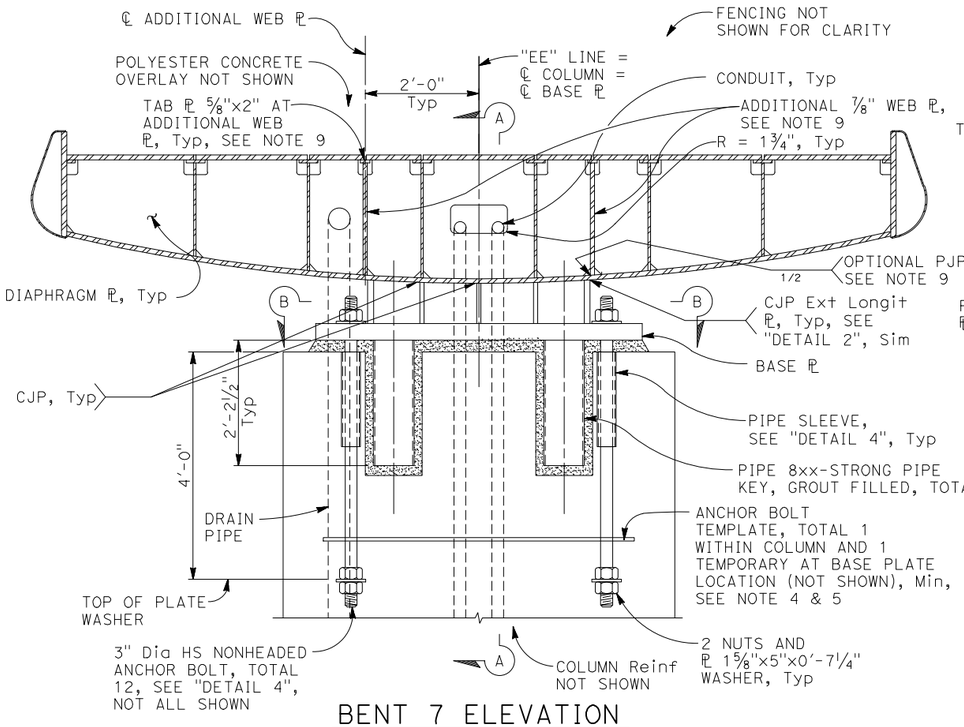
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES: 6-10-22 | 1-10-23 | 6-28-24

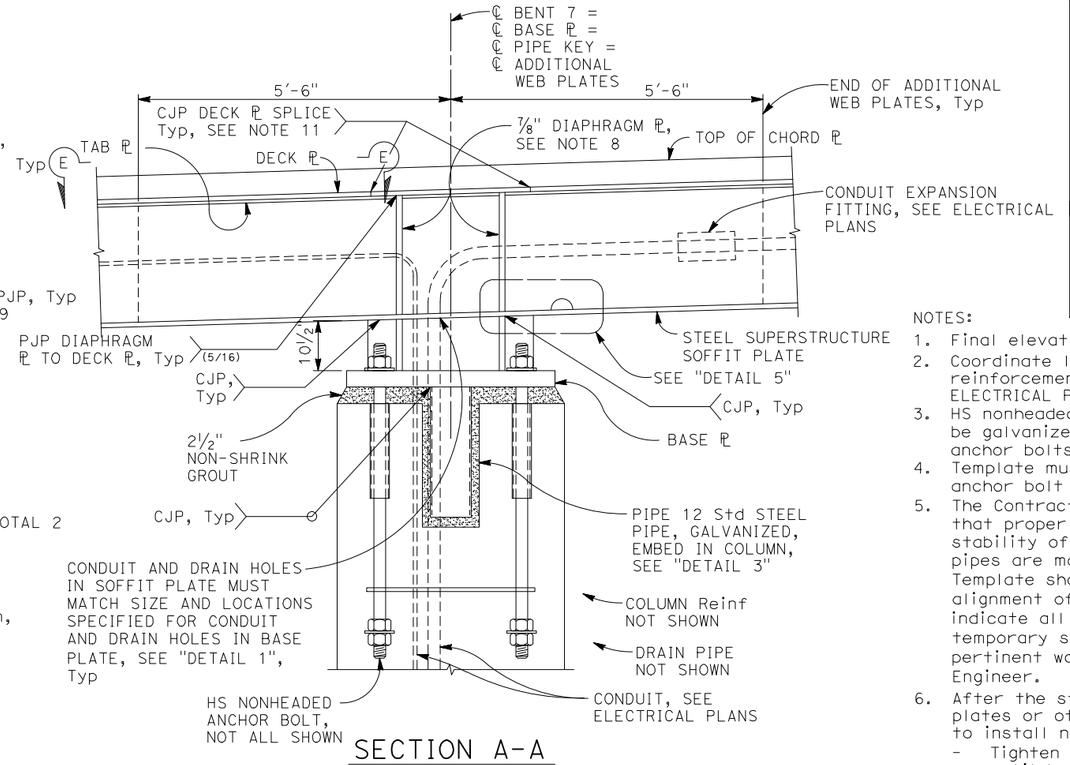
SHEET 52 OF 117

2018057 (2018057SRB_552)



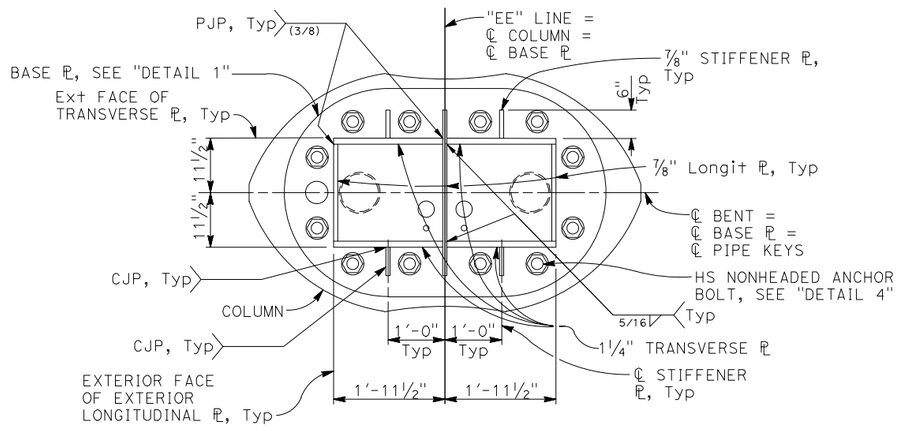
BENT 7 ELEVATION

3/4" = 1'-0"



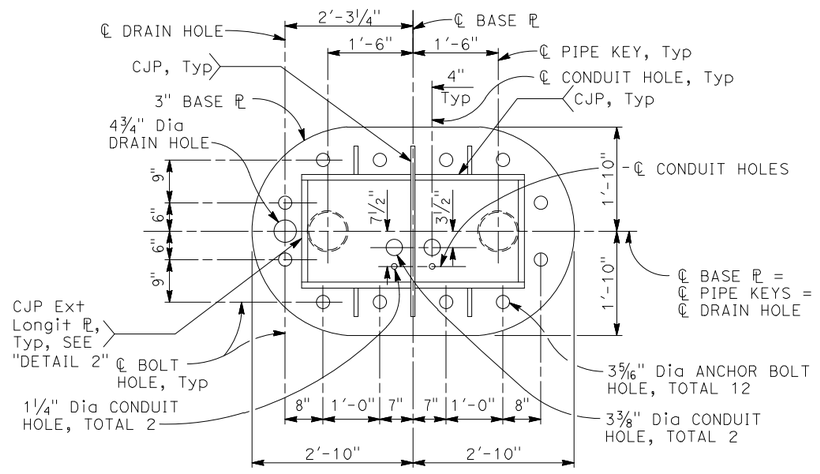
SECTION A-A

3/4" = 1'-0"



SECTION B-B

3/4" = 1'-0"



DETAIL 1

3/4" = 1'-0"

NOTES:

1. Final elevation of base plate must be level.
2. Coordinate locations of conduit with column reinforcement details. For conduit details, see ELECTRICAL PLANS.
3. HS nonheaded anchor bolts must not be galvanized. Cleaning process of HS nonheaded anchor bolts must not introduce hydrogen into steel.
4. Template must match base plate HS nonheaded anchor bolt pattern.
5. The Contractor is responsible for ensuring that proper support, location, alignment, and stability of HS nonheaded anchor bolts and embedded pipes are maintained at all stages of construction. Template shown indicates general means of providing alignment of anchor bolts and does not necessarily indicate all work required. Contractor must submit temporary support, bracing, template, and other pertinent working drawings for acceptance by the Engineer.
6. After the structure is properly positioned using shim plates or other methods, use the following sequence to install non-shrink grout and tighten nuts:
   - Tighten nuts snug-tight in a crisscross sequence until bearing surfaces of all nuts, washers and base plates are in firm contact.
   - Install non-shrink grout within the annular voids between the steel pipe keys and the embedded steel pipes.
   - Install non-shrink grout under base plate.
   - Use an indelible marker to mark the nuts and base plates with lines showing relative alignment of the nut to the base plate.
   - Tighten nuts, following a crisscross sequence an additional 1/6 turn.
   - A minimum of 60 days after tightening nuts, fully loosen one nut, install thread-locking system, and reinstall snug-tight plus an additional 1/6 turn. Repeat for all nuts following a crisscross sequence.
7. For "DETAIL 2", "DETAIL 3", "DETAIL 4" and "DETAIL 5", see "COLUMN/DECK CONNECTION DETAILS No. 4" sheet.
8. For diaphragm details, see "STEEL BOX DETAILS No. 2" sheet. Omit drainage opening in center diaphragm plate.
9. For web plate and tab plate details not shown, see "DETAIL 1" on "STEEL BOX DETAILS No. 1" sheet. At the Contractor's option, the welded connection between the additional web plate and soffit plate may be a PJP weld as shown.
10. For drainage pipe details, see "DECK DRAINAGE DETAILS No. 1" sheet.
11. For weld details, see "DETAIL 4" on "STEEL BOX DETAILS No. 1" sheet. Field weld as required for installation of conduits and drain pipe and associated connections. Alternative deck splice locations may be submitted to Engineer for review.
12. For "SECTION E-E", see "COLUMN/BOX CONNECTION DETAILS No. 3" sheet.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	158	247

Daniel C Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — DANIEL S ROSELLINI — No. C79105 — Exp.3/31/26 — CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
COLUMN/BOX CONNECTION DETAILS No. 1

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)
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FILE => $REQUEST
TIME PLOTTED => $TIME
USERNAME => $USER
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3
PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340
DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES: 6-10-22 | 1-10-23 | 6-28-24
SHEET 53 OF 117

(20180573RB_S53)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	159	247

Daniel Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp. 3/31/26 CIVIL STATE OF CALIFORNIA

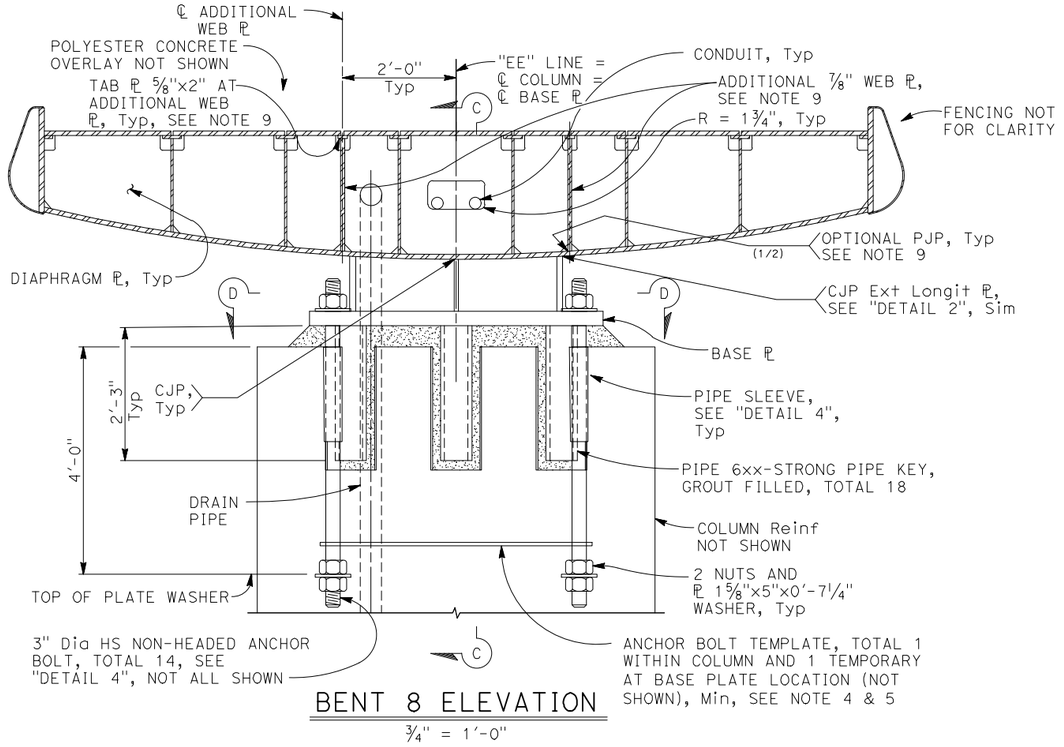
PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

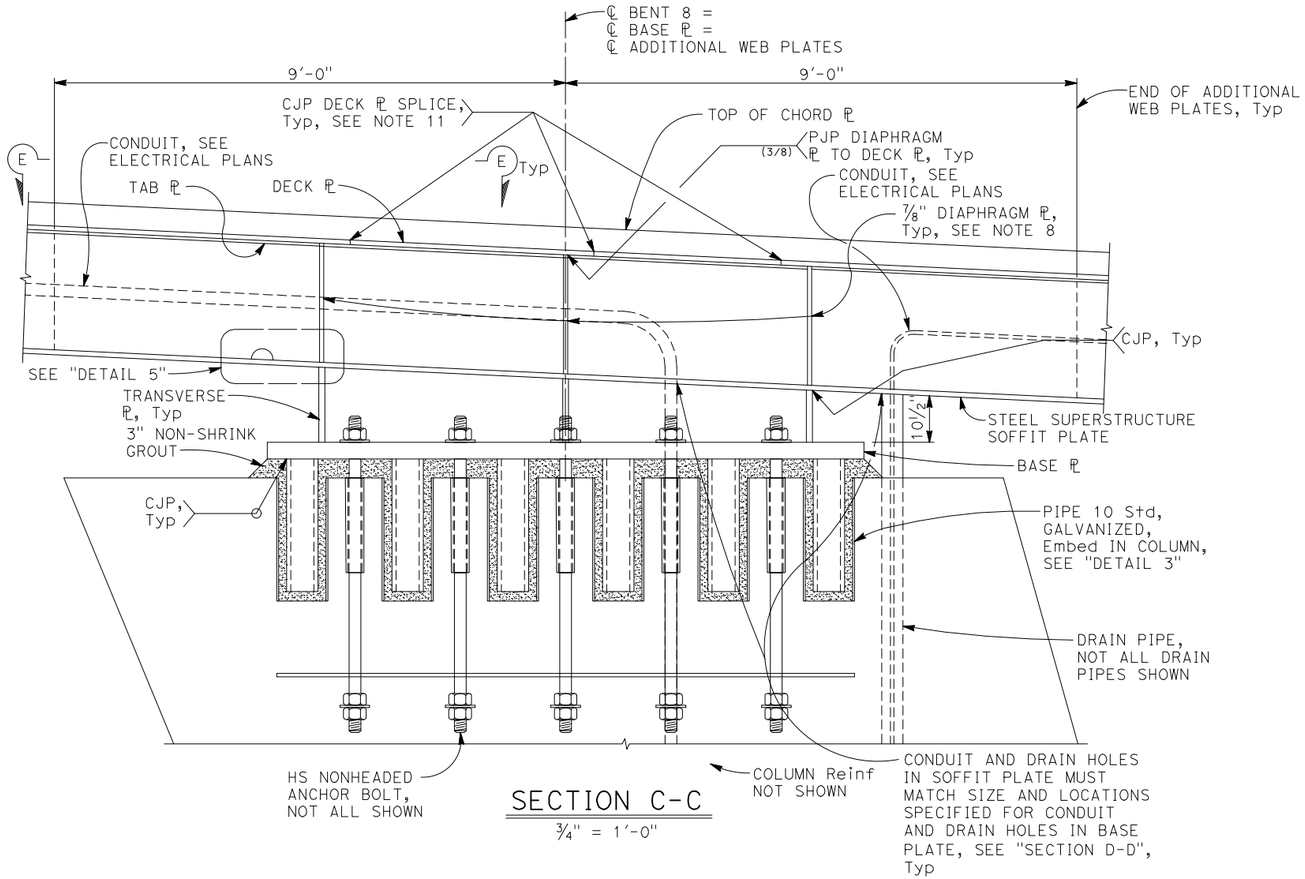
BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

NOTES:
1. For "SECTION D-D" AND "SECTION E-E", see "COLUMN/BOX CONNECTION DETAILS No. 3" sheet.
2. For additional notes, see "COLUMN/BOX CONNECTION DETAILS No. 1" sheet.



BENT 8 ELEVATION

3/4" = 1'-0"



SECTION C-C

3/4" = 1'-0"

Robert Peo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
COLUMN/BOX CONNECTION DETAILS No. 2

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 5:05pm
FILE => 2018057SRB_S54.dwg USERNAME => SMH
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES			
6-10-22	1-10-23	6-28-24	10-4-24

SHEET	OF
54	117

(2018057SRB_S54)
2018057

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	160	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

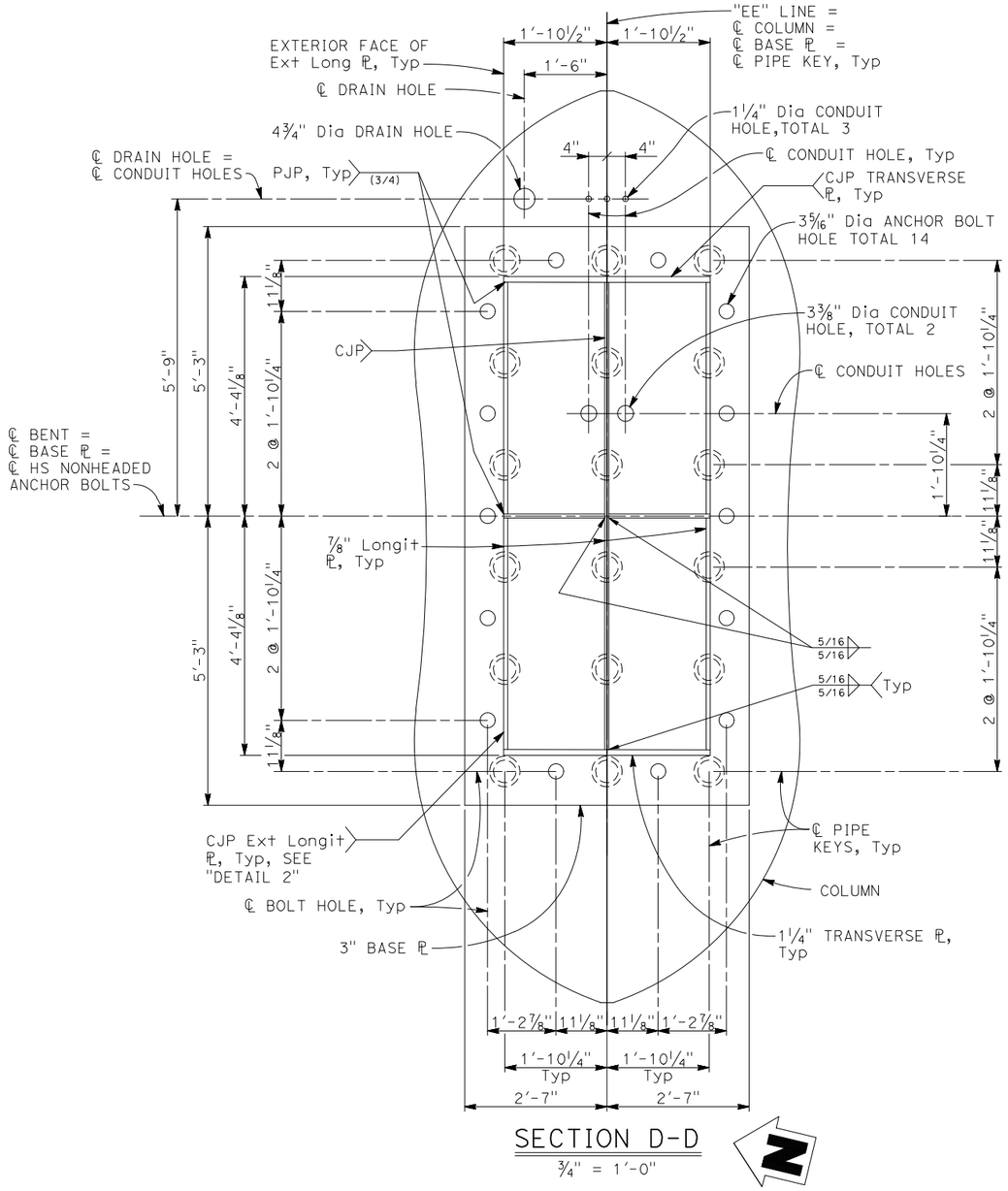
PLANS APPROVAL DATE

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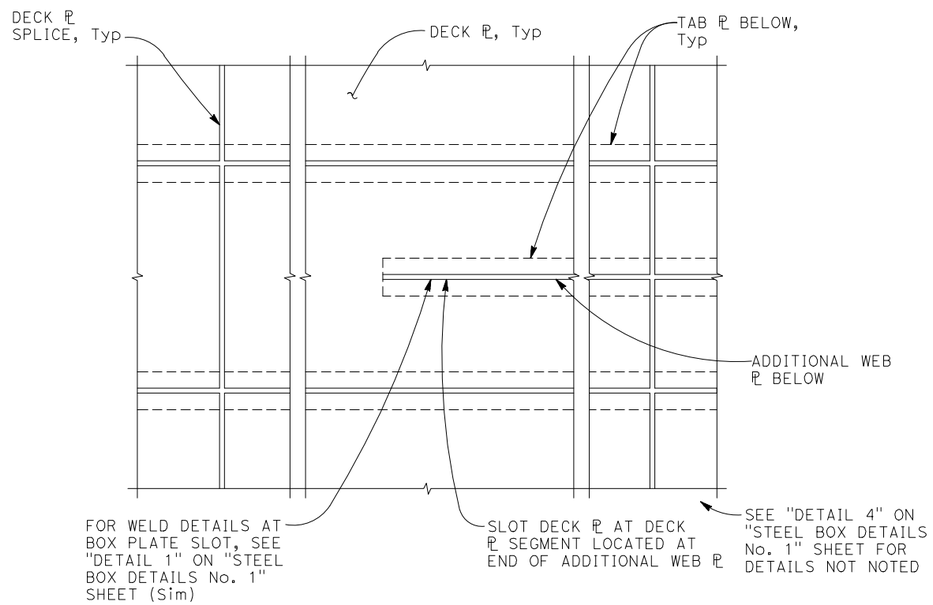
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

NOTE:
For notes, see "COLUMN/BOX CONNECTION DETAILS No. 1" sheet.



SECTION D-D
¾" = 1'-0"



DECK PLATE AT END OF ADDITIONAL WEB PLATE

SECTION E-E
1½" = 1'-0"

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
COLUMN/BOX CONNECTION DETAILS No. 3

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

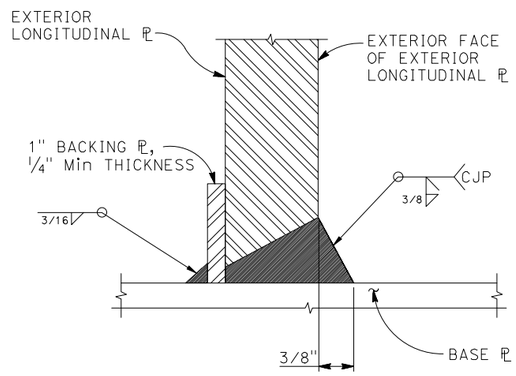
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES: 6-10-22 | 1-10-23 | 6-28-24

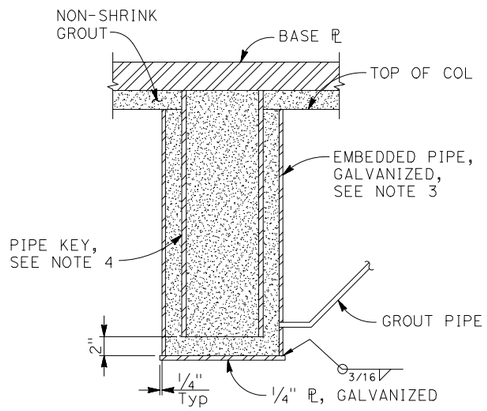
SHEET 55 OF 117

2018057 [2018057SRB_555]



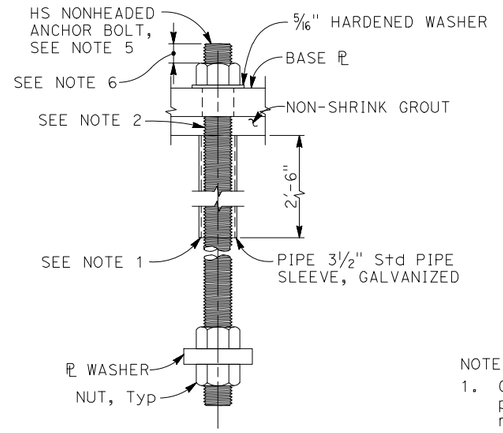
DETAIL 2
NO SCALE

NOTE:
CONNECTION TO BASE ℄ SHOWN, CONNECTION TO SOFFIT ℄ SIMILAR



DETAIL 3
1½" = 1'-0"

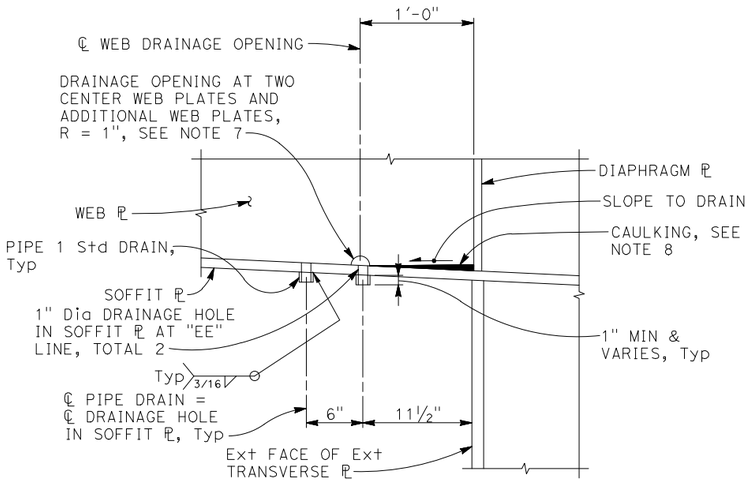
NOTE:
PIPE KEY ASSEMBLY AT BENT 7 SHOWN, BENT 8 SIMILAR



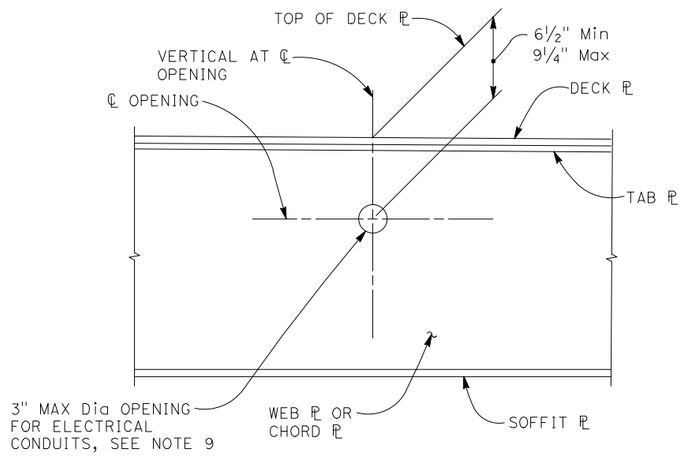
DETAIL 4
1½" = 1'-0"

NOTES:

1. Completely seal annular void at top and bottom of pipe sleeve with waterproof tape to prevent non-shrink grout and concrete from entering pipe.
2. At portion of HS nonheaded anchor bolt within non-shrink grout, wrap HS nonheaded anchor bolt with 4 wraps of waterproof tape to prevent bonding to non-shrink grout.
3. Ends of steel pipe must be perpendicular. Install and secure steel pipe plumb and flush with the top of column.
4. Fill pipe key with non-shrink grout prior to installing in embedded pipe.
5. HS nonheaded anchor bolts must not be galvanized. Cleaning process of HS nonheaded anchor bolts must not introduce hydrogen into steel.
6. Thread stickout from the outer face of the nut must be not less than 1 inch and not greater than 3 inches.
7. Weld of web plate to soffit plate must wrap around edges of drainage opening.
8. Caulking must seal clips at bottom corners of diaphragm plates.
9. Stagger centers of openings for electrical conduits not less than 1'-0" between adjacent web plates and chord plates.



DETAIL 5
1½" = 1'-0"



DETAIL 6
1½" = 1'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	161	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — DANIEL S ROSELLINI — No. C79105 — Exp.3/31/26 — CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

Rakesh Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
COLUMN/BOX CONNECTION DETAILS No. 4

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

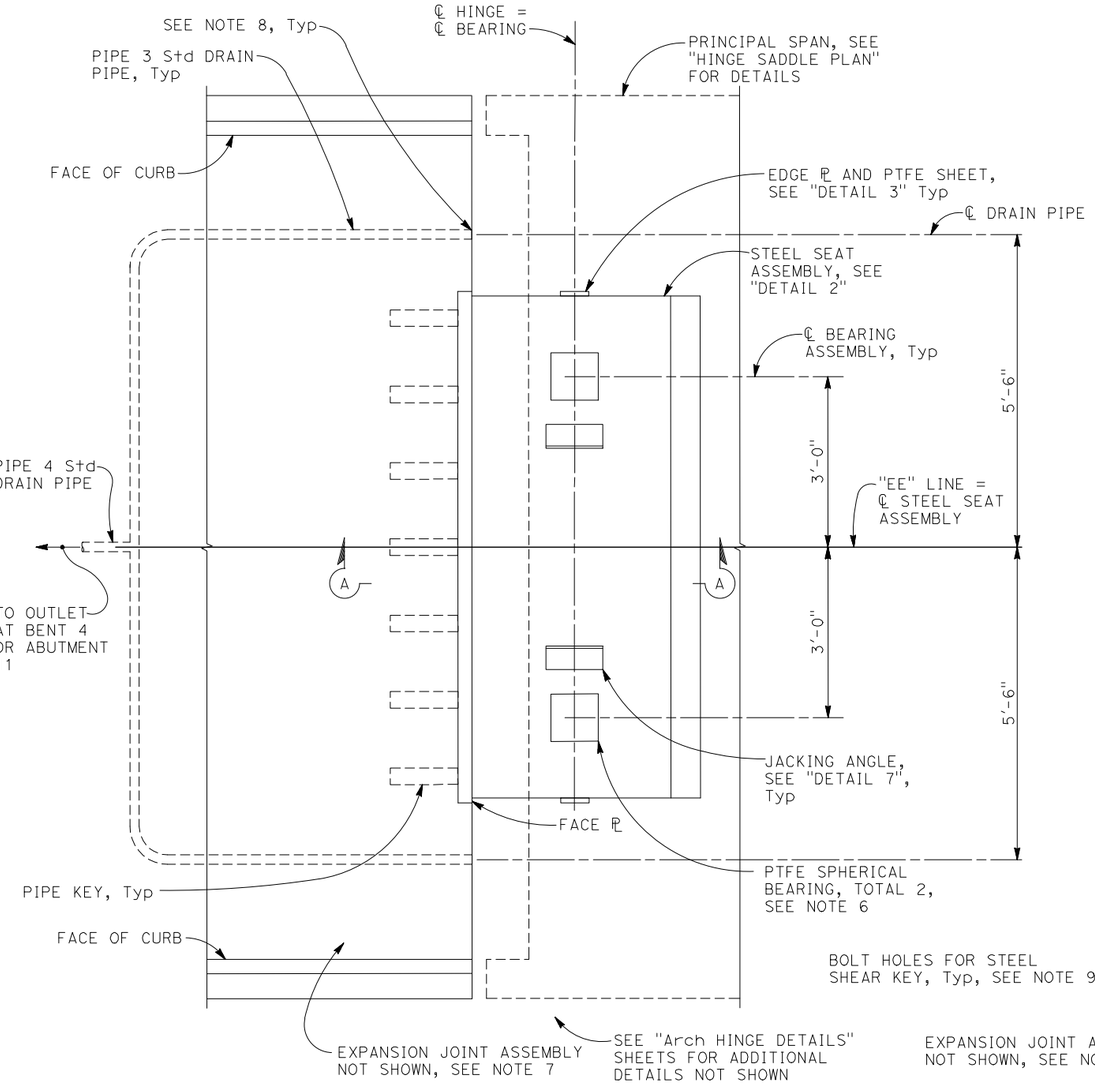
DATE PLOTTED => May 01, 2025 TIME PLOTTED => 5:06pm
FILE => 2018057SRB_556.dwg USERNAME => SMH
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES: 6-28-24, 5-2-25

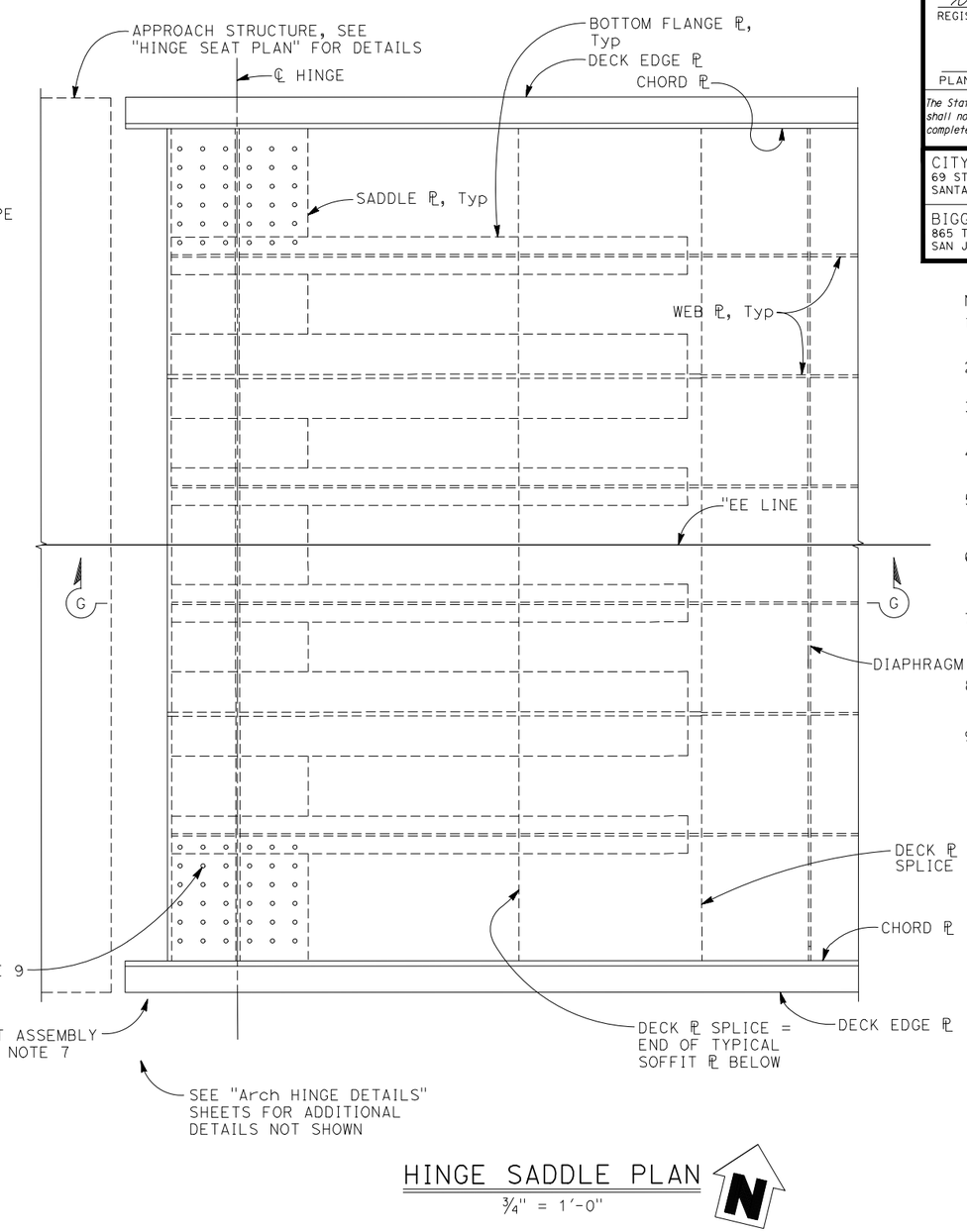
SHEET 56 OF 117

2018057 (2018057SRB_556)



HINGE SEAT PLAN

3/4" = 1'-0"



HINGE SADDLE PLAN

3/4" = 1'-0"

NOTES:

1. Hinge 6A shown. Hinge 8A similar, opposite hand.
2. For "SECTION A-A", see "HINGE DETAILS No. 1" sheet.
3. For "DETAIL 2" and "DETAIL 3", see "HINGE DETAILS No. 2" sheet.
4. For "SECTION G-G", see "HINGE DETAILS No. 3" sheet.
5. For "DETAIL 7", see "HINGE DETAILS No. 5" sheet.
6. For PTFE spherical bearing details, see "PTFE SPHERICAL BEARING DETAILS" sheet.
7. For expansion joint assembly details, see "JOINT SEAL DETAILS" sheet.
8. Connect expansion joint assembly drain tubes to drain pipes.
9. For steel shear key details, see "HINGE DETAILS No. 4" sheet.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	162	247

Daniel C Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

Robert Des
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
HINGE LAYOUT

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 5:06pm
FILE => 2018057SRB_S57.dwg USERNAME => SMH
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

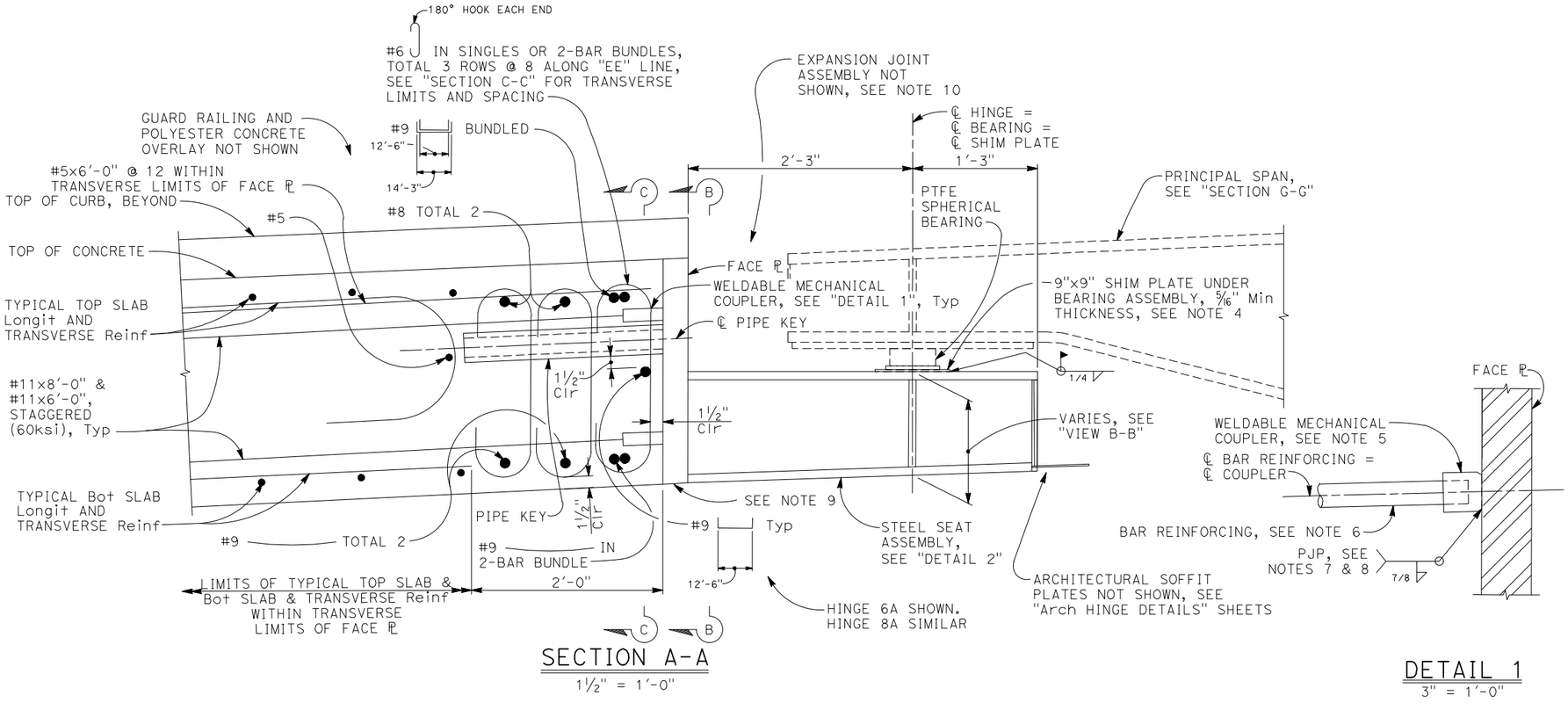
PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
6-10-22		2-21-25	10-4-24	57	117

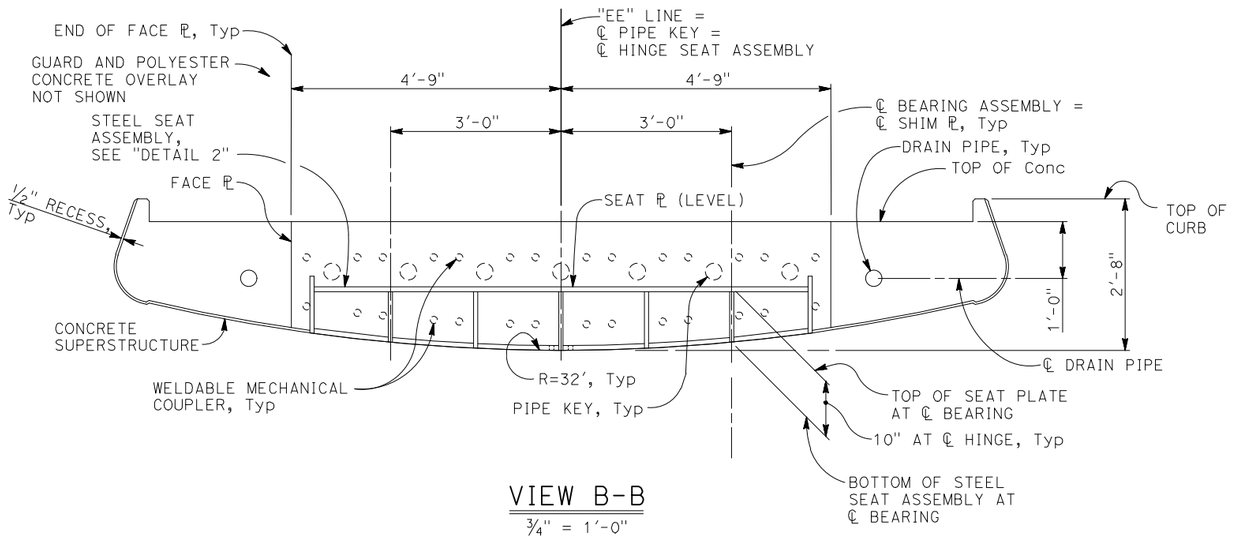
2018057

(2018057SRB_S57)

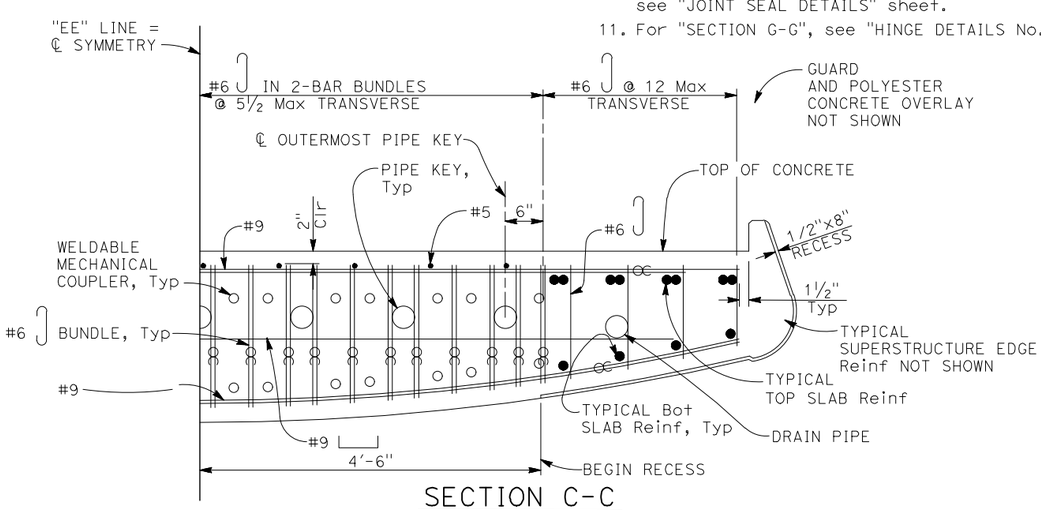


SECTION A-A
1½" = 1'-0"

DETAIL 1
3" = 1'-0"



VIEW B-B
¾" = 1'-0"



SECTION C-C
1" = 1'-0"

NOTES:
1. For "DETAIL 2", see "HINGE DETAILS No. 2" sheet.
2. For movement rating and joint details not shown, see "JOINT SEAL DETAILS" sheet.
3. For PTFE spherical bearing details, see "PTFE SPHERICAL BEARING DETAILS" sheet.
4. Final elevation of top surface of shim plate must be equal for both shim plates at each hinge. Shim plates may be tapered to provide level top surface in final condition.
5. Weldable mechanical couplers must be service splices.
6. Bar reinforcing must be oriented parallel to top surface of concrete superstructure.
7. Apply layer of buttering weld passes approximately ⅛" to ⅜" thick to face plate prior to attaching weldable mechanical couplers.
8. Weld size shown is minimum allowable. Weld size must develop a minimum axial tensile strength in the connected reinforcing of 80 ksi. The Contractor is responsible for designing weld and must submit pertinent working drawings with supporting calculations for acceptance by the Engineer.
9. Grind face plate bottom edge smooth of all roughness and shearing and cut markings.
10. For expansion joint assembly details not shown, see "JOINT SEAL DETAILS" sheet.
11. For "SECTION G-G", see "HINGE DETAILS No. 3" sheet.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	163	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — DANIEL S ROSELLINI — No. C79105 — Exp.3/31/26 — CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

Robert Peo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
HINGE DETAILS No. 1

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 5:07pm
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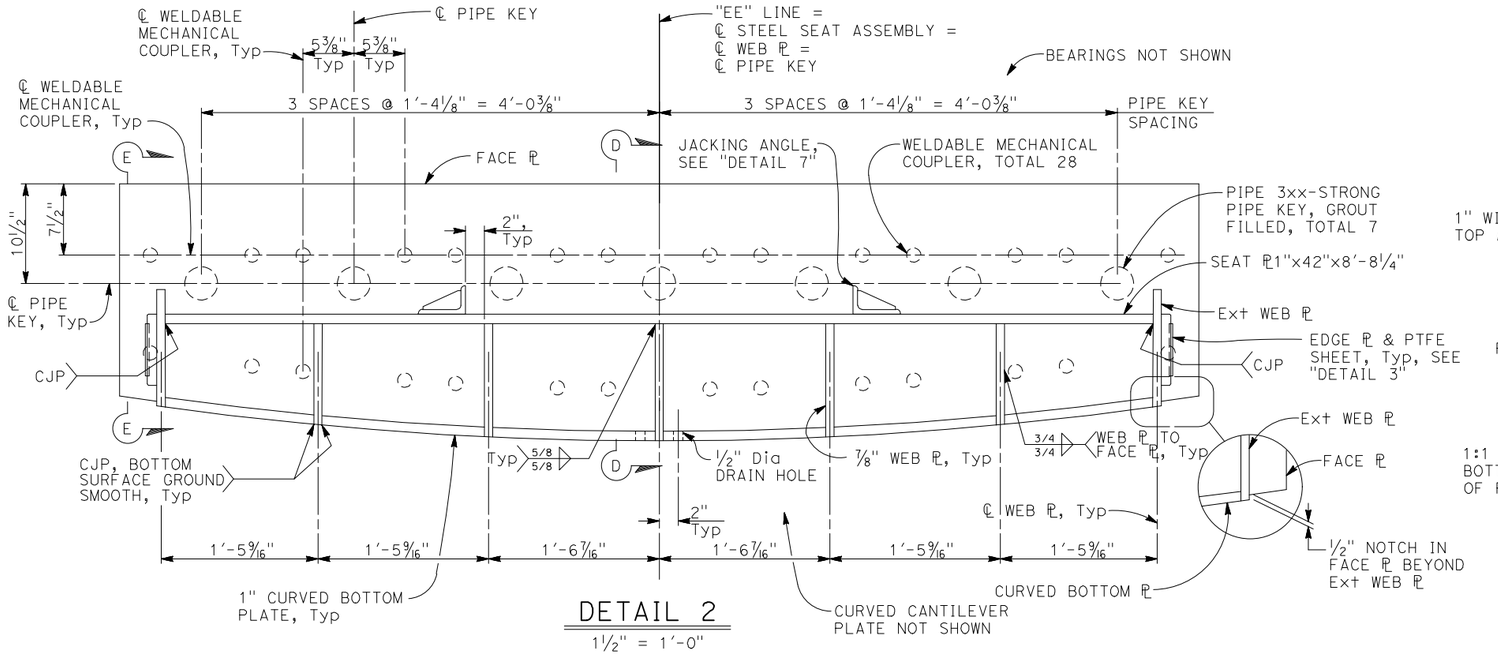
PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES			
6-10-22		2-21-25	10-4-24

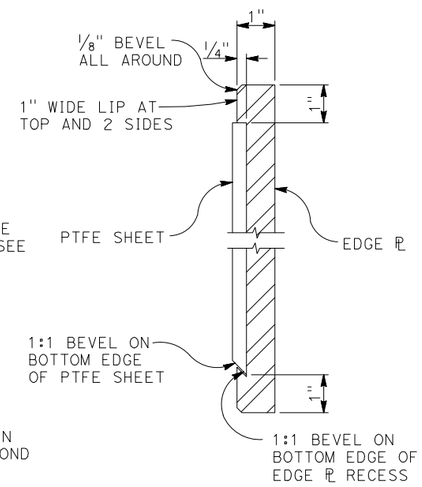
SHEET 58 OF 117

(2018057SRB_S58)



DETAIL 2

1½" = 1'-0"

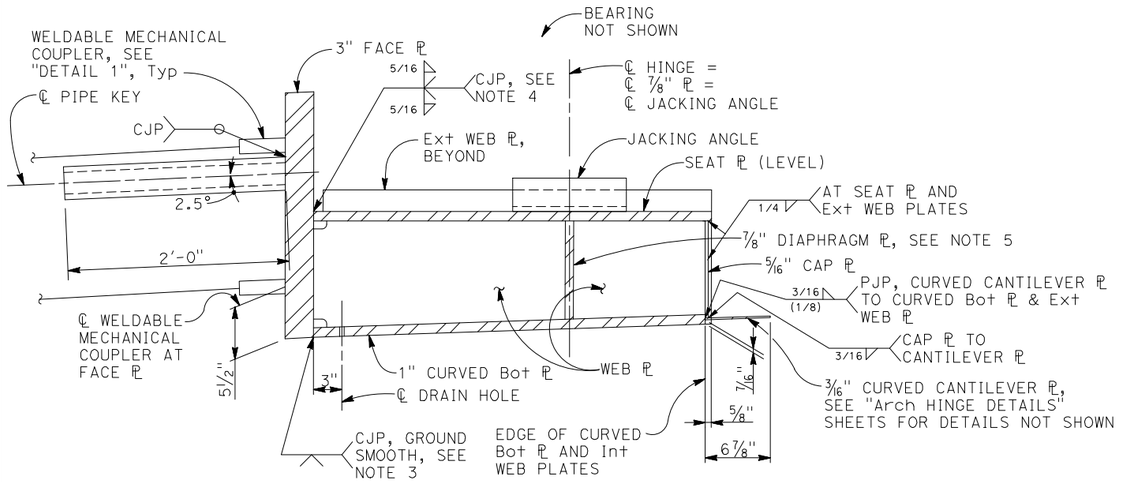


DETAIL 3

6"=1'-0"

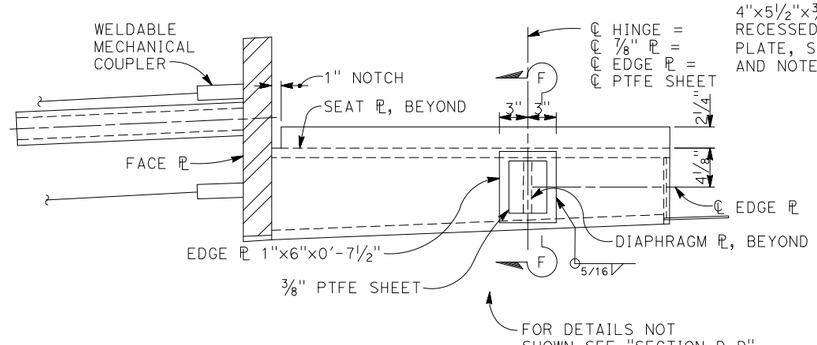
NOTES:

1. Epoxy bond and mechanically interlock PTFE sheet to steel edge plate. No coatings are permitted in steel recess or on PTFE sheet.
2. Top surface of seat plate must provide full bearing of shim plate under PTFE spherical bearing assembly. For shim plate and PTFE spherical bearing details, see "HINGE DETAILS No. 1" sheet and "PTFE SPHERICAL BEARING DETAILS" sheet.
3. Welded joint preparation must be on face plate and curved bottom plate. Weld must be continuous through web plates. Backing may remain in place.
4. Apply layer of buttering weld passes approximately ⅛" to 3/16" thick to face plate prior to assembly of joint.
5. Diaphragm plates are located in each cell of hinge seat assembly.
6. For "DETAIL 1", see "HINGE DETAILS No. 1" sheet.
7. For "DETAIL 7", see "HINGE DETAILS No. 5" sheet.
8. Welds identified as a ground smooth must be uniform and continuous and be filled and blended to provide a smooth transition to the connected surfaces.



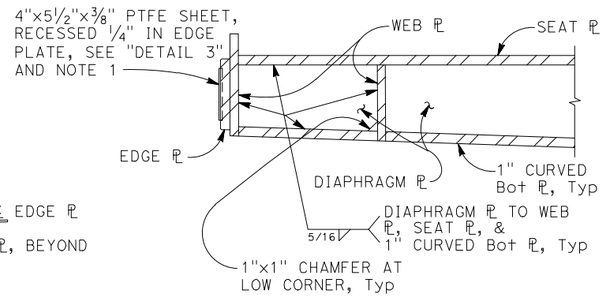
SECTION D-D

1½" = 1'-0"



SECTION E-E

1½" = 1'-0"



SECTION F-F

1½" = 1'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	164	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — DANIEL S ROSELLINI — No. C79105 — Exp.3/31/26 — CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO.	POST MILES
20-0307	21.5

EDWARDS AVENUE POC
HINGE DETAILS No. 2

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 5:07pm
FILE => 2018057SRB_S59.dwg USERNAME => SMH
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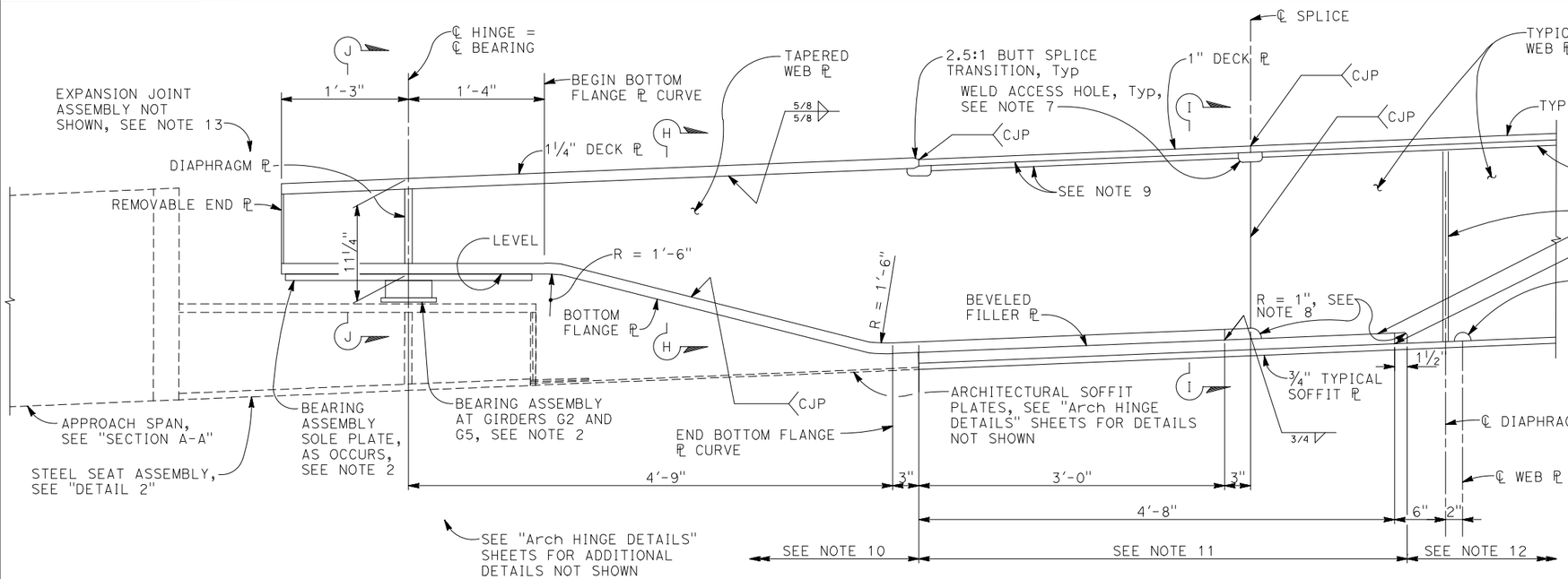
PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

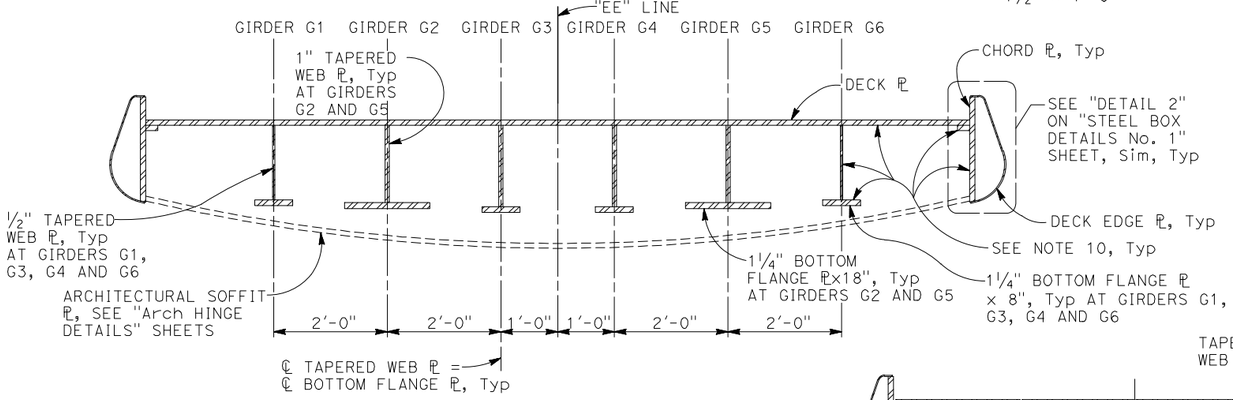
REVISION DATES			
6-10-22		2-21-25	10-4-24

SHEET	OF
59	117

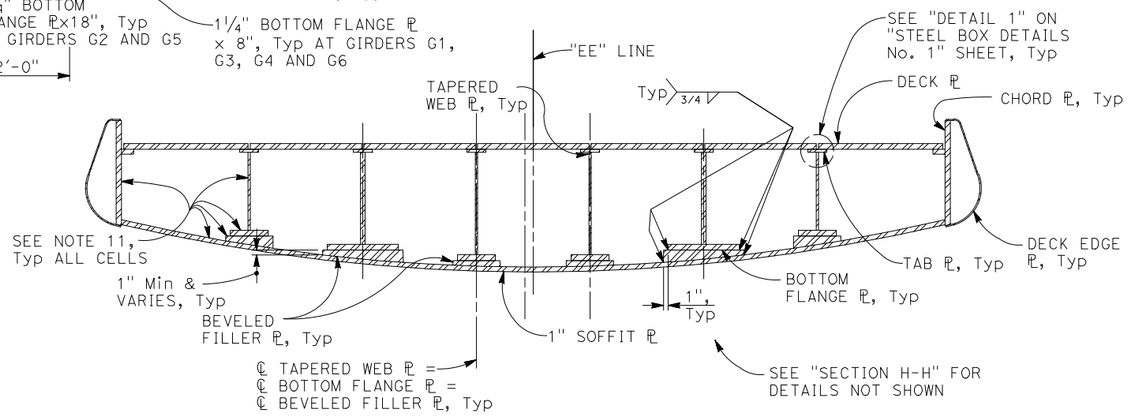
(2018057SRB_S59)



SECTION G-G
1½" = 1'-0"



SECTION H-H
¾" = 1'-0"



SECTION I-I
¾" = 1'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	165	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — DANIEL S ROSELLINI — No. C79105 — Exp.3/31/26 — CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

NOTES:

1. For diaphragm plate details, see "STEEL BOX DETAILS No. 2" sheet.
2. Bolted connection to bottom flange plate not shown. For bearing assembly details, see "PTFE SPHERICAL BEARING DETAILS" sheet.
3. For "SECTION J-J", see "HINGE DETAILS No. 4" sheet.
4. For typical deck plate thickness and typical soffit plate thickness, see "STEEL BOX FRAMING PLAN" sheets.
5. Weld of web plate to soffit plate must wrap around edges of drainage openings.
6. Guard with fencing not shown. For guard with fencing details, see "STANCHION DETAILS" sheets and "GUARD WITH FENCING DETAILS" sheets.
7. Terminate weld of web plate to tab plate and deck plate a distance equal to the weld size away from the weld access hole.
8. Terminate weld of web plate to beveled filler plate and typical soffit plate a distance equal to the weld size away from reentrant corner.
9. For connection details of web plate to tab plate and tab plate to deck plates, see "DETAIL 1" on "STEEL BOX DETAILS No. 1" sheet.
10. Apply zinc primer at bottom surface of steel deck plates and all surfaces of chord plates, tapered web plates, tab plates, diaphragm plates, and removable end plates and associated fastener assemblies and framing. Intermediate and finish coats are not required at these locations.
11. Apply zinc primer at inside surface of soffit plate, inside surface of chord plates, except within 6" of tab plate, all surfaces of tapererd and typical web plates, except within 6" of deck plate, and all surfaces of bottom flange plates and beveled filler plates. Intermediate and finish coats are not required at these locations.
12. For typical limits of interior surface coatings at steel superstructure, see "INDEX TO BRIDGE PLANS" sheet.
13. For expansion joint assembly details not shown, see "JOINT SEAL DETAILS" sheet.
14. For "SECTION A-A", see "HINGE DETAILS No. 1" sheet.
15. For "DETAIL 2", SEE "HINGE DETAILS No. 2" sheet.

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
HINGE DETAILS No. 3

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 5:07pm
FILE => 2018057SRB_S60.dwg USERNAME => SMH
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES: 6-10-22 | 2-21-25 | 10-4-24

SHEET 60 OF 117

(2018057SRB_S60)
2018057

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	166	247

Daniel C Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

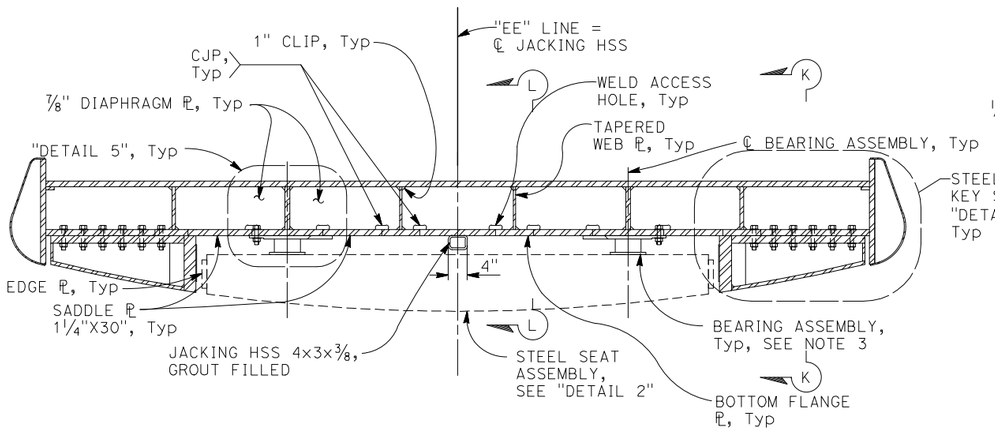
REGISTERED PROFESSIONAL ENGINEER — DANIEL S ROSELLINI — No. C79105 — Exp.3/31/26 — CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

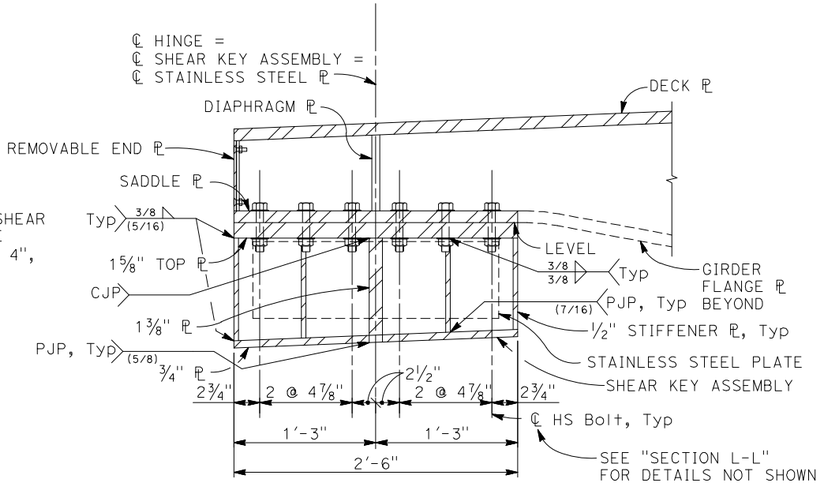
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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126



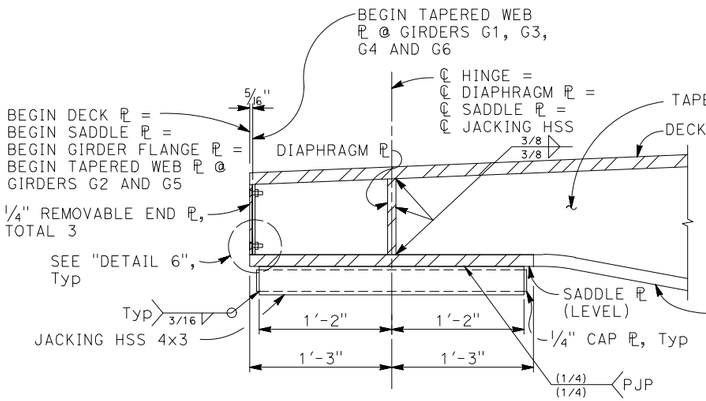
SECTION J-J
3/4" = 1'-0"



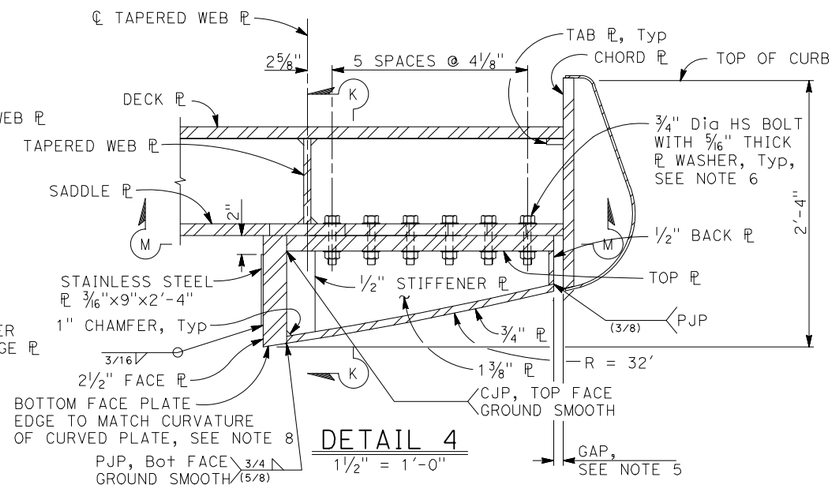
SECTION K-K
1 1/2" = 1'-0"

NOTES:

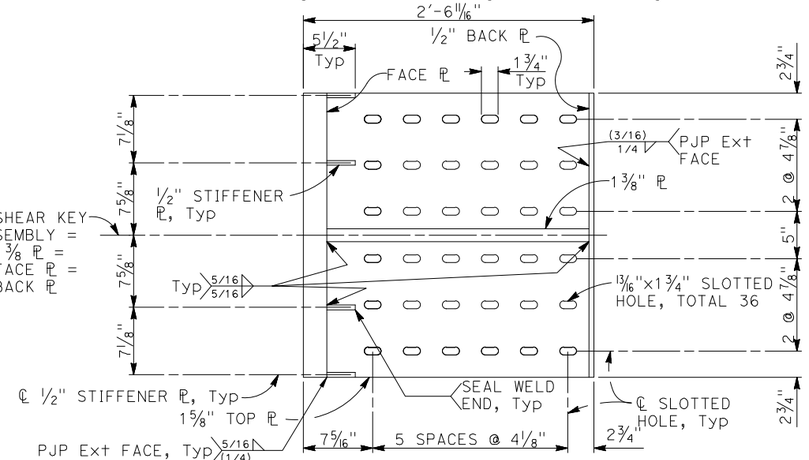
1. Bolt holes must be drilled full size or subpunched and reamed to size.
2. For "DETAIL 2", see "HINGE DETAILS No. 2" sheet.
3. For PTFE spherical bearing details see "PTFE SPHERICAL BEARING DETAILS" sheet.
4. Flange plate bottom surface and welded connection to saddle plate must be flush and allow full bearing of PTFE spherical bearing assembly and shear key assembly.
5. Gap dimension varies. The following objectives must be attained after final pretensioning of the shear key assembly HS bolts:
   - Inside faces of chord plates must be transversely aligned on both sides of the hinge joint.
   - PTFE sheet at steel seat assembly and shear key stainless steel plate must be in full contact at the northern shear key.
   - Gap between shear key and chord plate must equal 1/2" at the southern shear key.
6. Bolt holes at saddle plate and girder flange plate must be 13/16" diameter.
7. Guard with fencing not shown. For guard with fencing details, see "STANCHION DETAILS" sheets and "GUARD WITH FENCING DETAILS" sheets.
8. Grind face plate bottom edge smooth of all roughness and shearing and cut markings.



SECTION L-L
1 1/2" = 1'-0"



DETAIL 4
1 1/2" = 1'-0"



SECTION M-M
1 1/2" = 1'-0"

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
HINGE DETAILS No. 4

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 5:08pm
FILE => 2018057SRB_S61.dwg USERNAME => SMH
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES			
6-10-22		2-21-25	10-4-24

SHEET	OF
61	117

2018057SRB_S61

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	167	247

Daniel Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

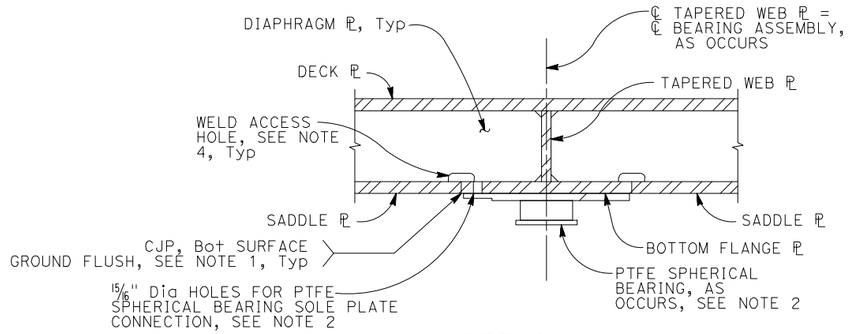
REGISTERED PROFESSIONAL ENGINEER — DANIEL S ROSELLINI — No. C79105 — Exp. 3/31/26 — CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

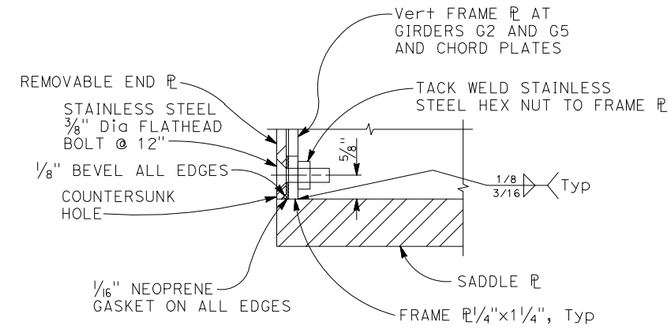
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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

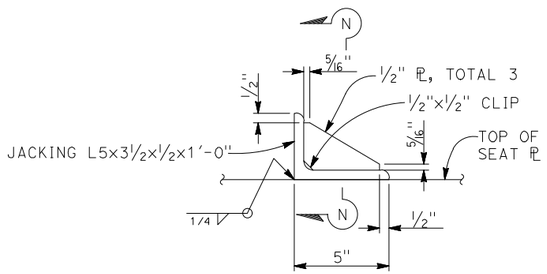


DETAIL 5
1½" = 1'-0"

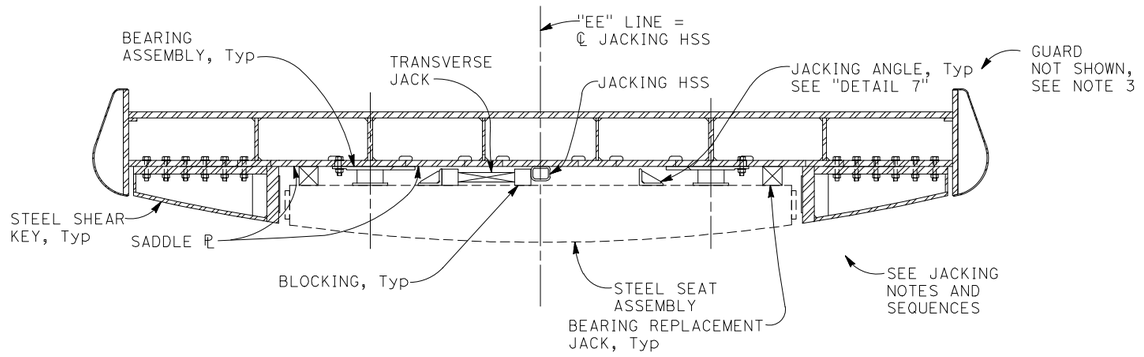


DETAIL 6
1½" = 1'-0"

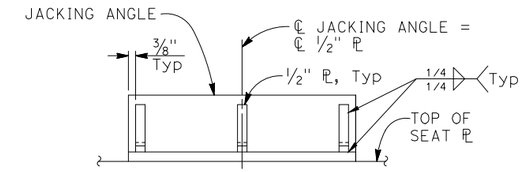
NOTES:
1. Flange plate bottom surface and welded connection to saddle plate must be flush and allow full bearing of PTFE spherical bearing assembly and shear key assembly.
2. For PTFE spherical bearing details see "PTFE SHERICAL BEARING DETAILS" sheet.
3. For guard details, see "STANCHION DETAILS" sheets and "GUARD DETAILS" sheets.
4. Terminate weld of diaphragm plate to saddle plate and bottom flange plate a distance equal to the weld size away from the weld access hole.



DETAIL 7
3" = 1'-0"



DETAIL 8
¾" = 1'-0"



SECTION N-N
3" = 1'-0"

JACKING NOTES FOR BEARING OR SHEAR KEY REPLACEMENT:
1. Jacking details are schematic and conceptual. Final details and procedures must be developed under the direction of an engineer who is registered as a civil engineer in the State of California at the time of the jacking operations.
2. Live loads must not be present on the bridge during the jacking operations.
3. The jacks must be centered on the centerline of hinge. The vertical jacking force to overcome permanent loads is approximately 25 kips per bearing replacement jack. The transverse jacking force to move the bridge ¼" to ½" is approximately 10 to 15 kips.

RECOMMENDED SHEAR KEY REPLACEMENT SEQUENCE:
1. Close bridge.
2. Remove architectural covers and expansion joint devices.
3. Install blocking and transverse jack.
4. Apply load to jack. After engaging the jack, do not extend the jack more than ½ inch.
5. Verify that both shear keys are disengaged from the PTFE sheets.
6. Perform shear key repairs on the disengaged shear keys as required.
7. After the work is completed, slowly retract the jack.
8. Remove jack and blocking.
9. Re-install architectural covers and expansion joint devices.
10. Open bridge.

RECOMMENDED BEARING REPLACEMENT SEQUENCE:
1. Close bridge.
2. Remove architectural covers and expansion joint devices.
3. Install blocking and transverse jack.
4. Apply load to the transverse jack. After engaging the jack, do not extend the jack more than ¼ inch.
5. Verify that both shear keys are disengaged from the PTFE sheets. Install bearing replacement jacks and load both jacks simultaneously. Do not extend bearing replacement jacks more than 1 inch. The transverse jack must be capable of accommodating the vertical movement.
6. Perform bearing component repairs and any shear key repairs.
7. After the work is completed, retract the jacks slowly, bearing replacement jacks first and transverse jacks second.
8. Remove jacks and blocking.
9. Re-install architectural covers and expansion joint devices.
10. Open bridge.

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
HINGE DETAILS No. 5

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)
DATE PLOTTED => May 01, 2025 TIME PLOTTED => 5:08pm
FILE => 2018057SRB_S62.dwg USERNAME => SMH
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3
PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340
DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES: 6-10-22 | 1-10-23 | 6-28-24 | 2-21-25
SHEET 62 OF 117
2018057 (2018057SRB_S62)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	168	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

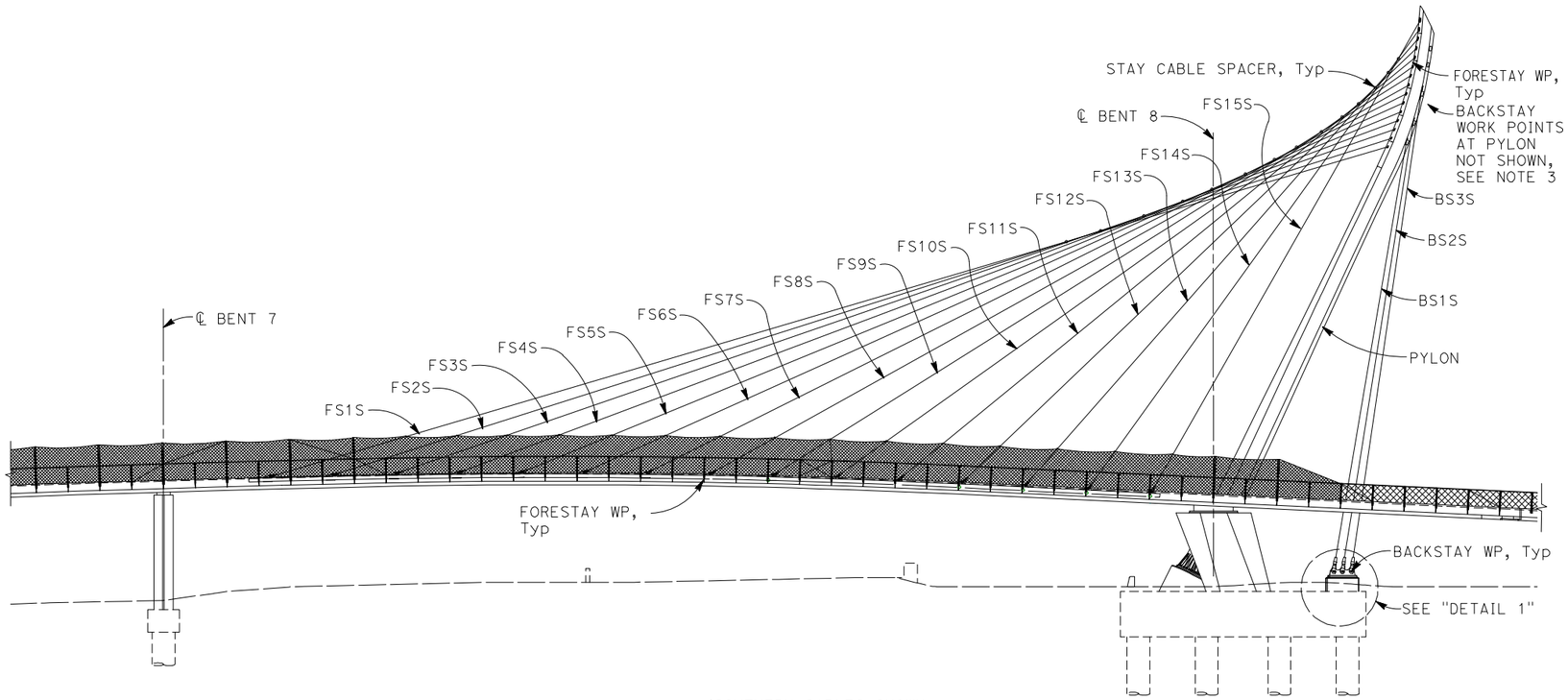
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp. 3/31/26 CIVIL STATE OF CALIFORNIA

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SANTA ROSA, CA 95401

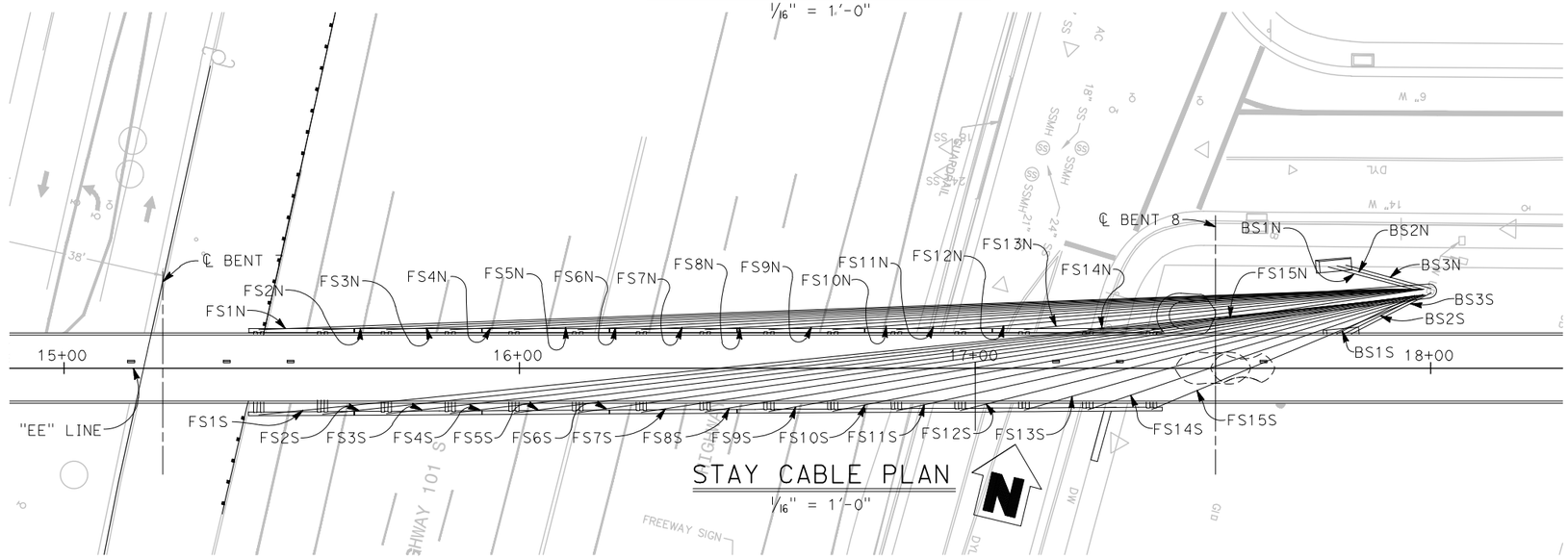
BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126



(SOUTHERN CABLES SHOWN, NORTHERN CABLES SIMILAR)

STAY CABLE ELEVATION

1/16" = 1'-0"



STAY CABLE PLAN

1/16" = 1'-0"

NOTES:
1. For stay cable data, see "STAY CABLE DATA" sheet.
2. For "DETAIL 1", see "BACKSTAY ANCHOR ASSEMBLY DETAILS" sheet.
3. For forestay and backstay work points at pylon, see "PYLON DETAILS No. 3" and "PYLON DETAILS No. 4" sheets.
4. For forestay work points at deck, see "STEEL BOX DETAILS No. 4" sheet.
5. For stay cable spacer details, see "STAY CABLE SPACER DETAILS" sheet.

Robert Peo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

DESIGN	BY J. Bodemar	CHECKED D. Devlin	
DETAILS	BY J. Bodemar	CHECKED D. Devlin	
QUANTITIES	BY A. Notaro	CHECKED F. Franco	

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
STAY CABLE LAYOUT

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

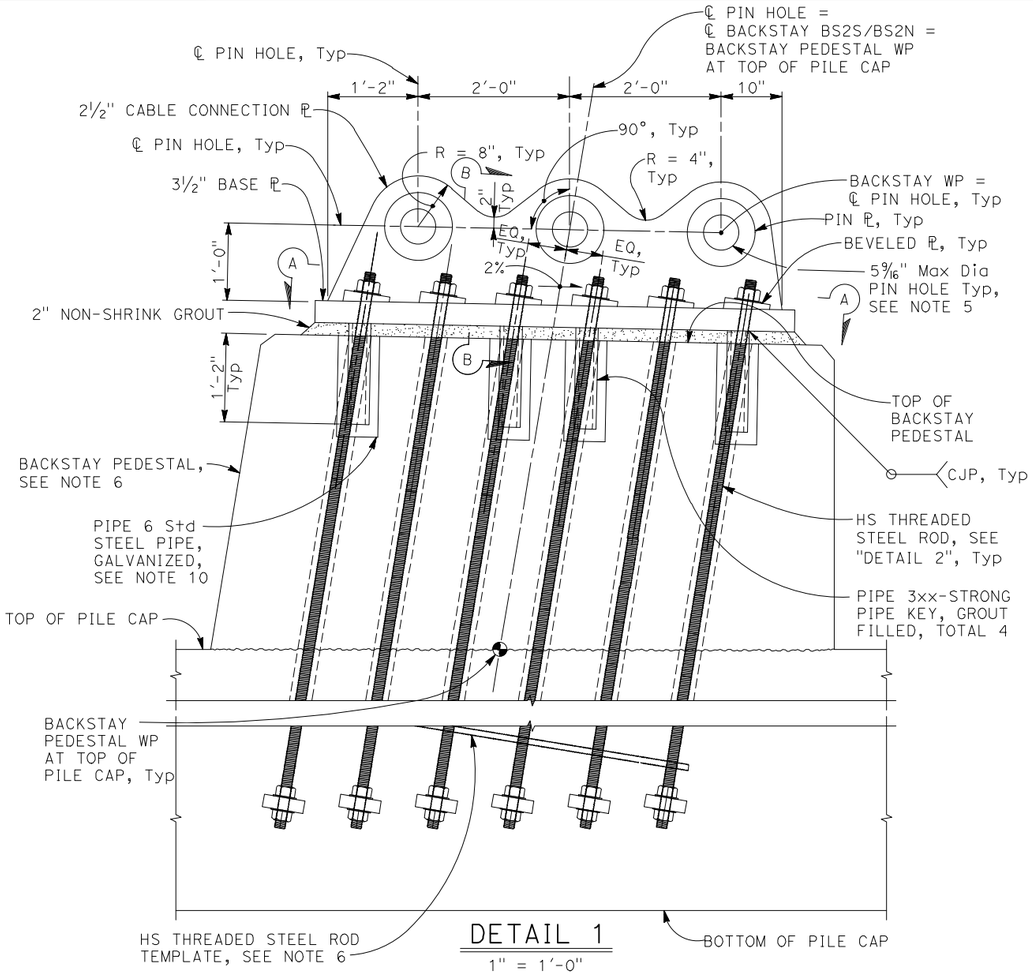
DATE PLOTTED => May 01, 2025 TIME PLOTTED => 5:09pm
FILE => 2018057SRB_S63.dwg USERNAME => SMH
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
6-10-22	1-10-23	6-28-24		63	117

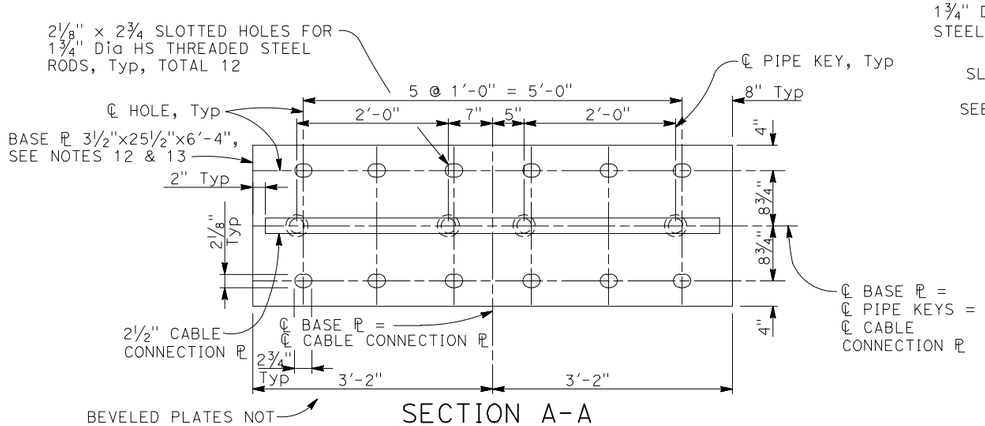
(2018057SRB_S63)



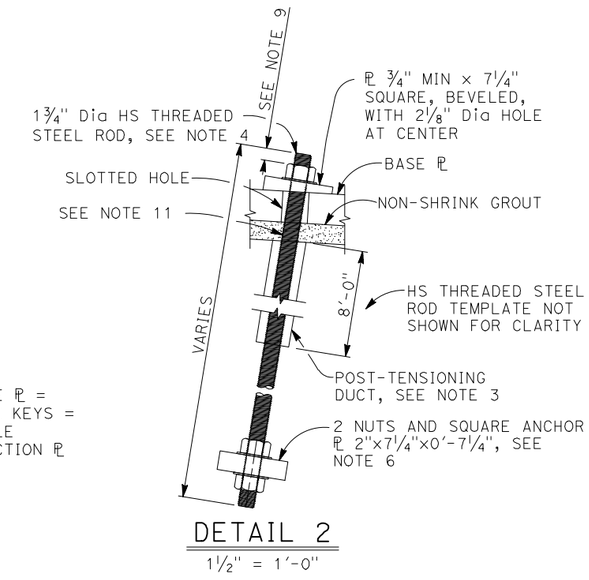
DETAIL 1
1" = 1'-0"

NOTES:

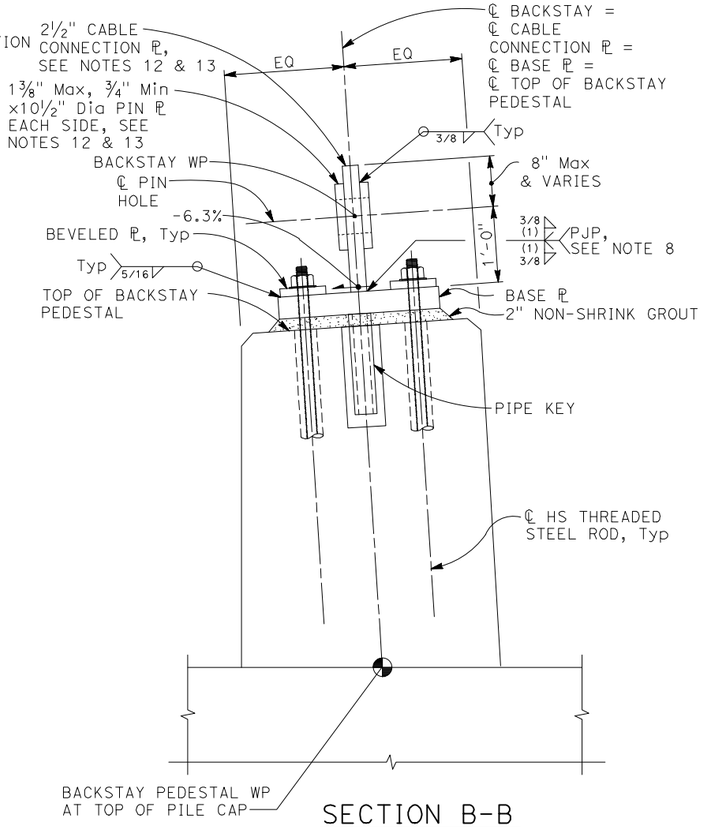
1. For location of backstay pedestal WP at top of pile cap, see "BENT 8 LAYOUT" sheet.
2. All steel plates and pipe keys of the backstay anchor assembly must be galvanized.
3. HS threaded steel rods must be prestressed to 145 kips after non-shrink grout and concrete have reached a strength of 4 ksi. Each post-tensioning duct must be fitted with a grout tube and a vent tube located to allow full grouting of the duct after post-tensioning operations are completed. Completely seal annular void at top and bottom of the ducts with waterproof tape to prevent non-shrink grout and concrete from entering the ducts.
4. At the contractor's option, the HS anchor rods may be temporarily extended for use in cable stressing operations.
5. Pin hole diameter must be determined by the cable supplier subject to review and approval by the Engineer. Maximum diameter of pin hole, excluding coating, must be not more than 1/16" greater than the diameter of the pin.
6. For backstay pedestal details, HS threaded steel rod template, and anchor plate locations not shown, see "BACKSTAY PEDESTAL DETAILS" sheet.
7. Non-shrink grout must be uniform thickness.
8. Apply layer of buttering weld passes approximately ⅛" to ³⁄₁₆" thick to base plate prior to assembly of joint.
9. Thread stickout from the outer face of the nut must be not less than 1 inch and not greater than 3 inches.
10. Details must be similar to "DETAIL 3" on "COLUMN/BOX CONNECTION DETAILS No. 4" sheet.
11. At portion of HS threaded steel rod within non-shrink grout, wrap the rod with 4 wraps of waterproof tape to prevent bonding to non-shrink grout.
12. Exposed corners of cable connection plate, base plate, and pin plates must be eased with ⅛" radius.
13. Grind edges smooth of all roughness and shearing and cut markings.



SECTION A-A
1" = 1'-0"



DETAIL 2
1½" = 1'-0"



SECTION B-B
1" = 1'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	169	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Bodemar	D. Devlin
DETAILS	J. Bodemar	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
BACKSTAY ANCHOR ASSEMBLY DETAILS

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)
DATE PLOTTED => May 01, 2025 TIME PLOTTED => 5:09pm
FILE => 2018057SRB_S64.dwg USERNAME => SMH
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3
PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340
DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES: 6-10-22 | 1-10-23 | 6-28-24 | 10-4-24
SHEET 64 OF 117
2018057 (2018057SRB_S64)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	170	247

Daniel Rosellini 5/2/25
REGISTERED CIVIL ENGINEER DATE

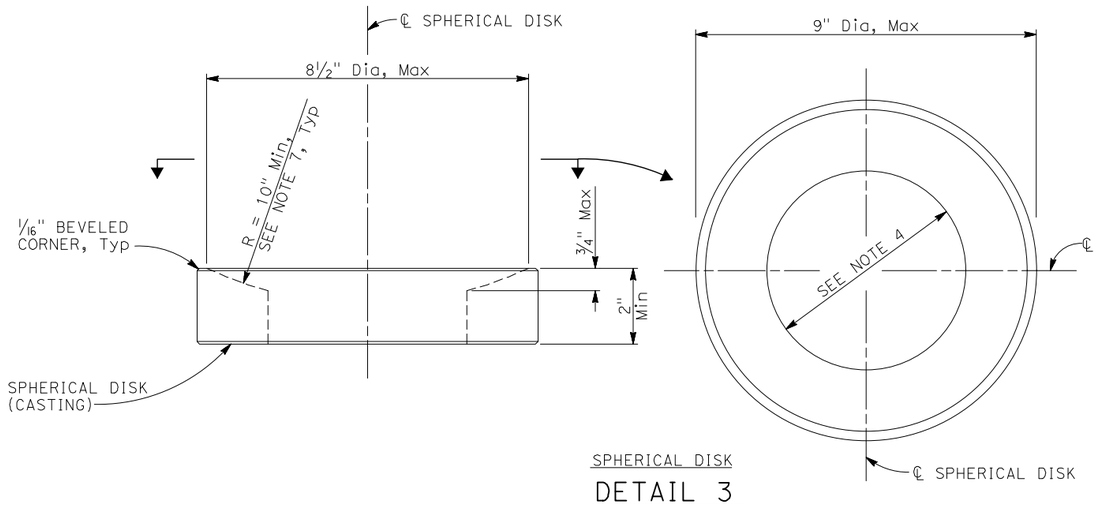
REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

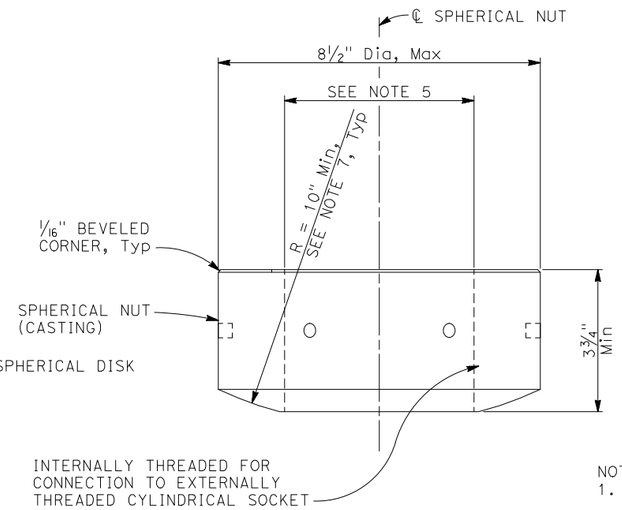
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CITY OF SANTA ROSA
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SANTA ROSA, CA 95401

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865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

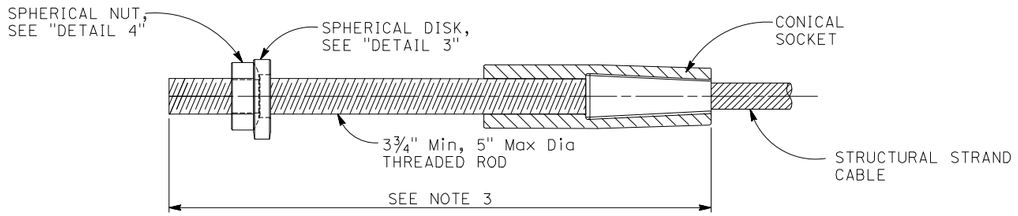


SPHERICAL DISK
DETAIL 3
6" = 1'-0"

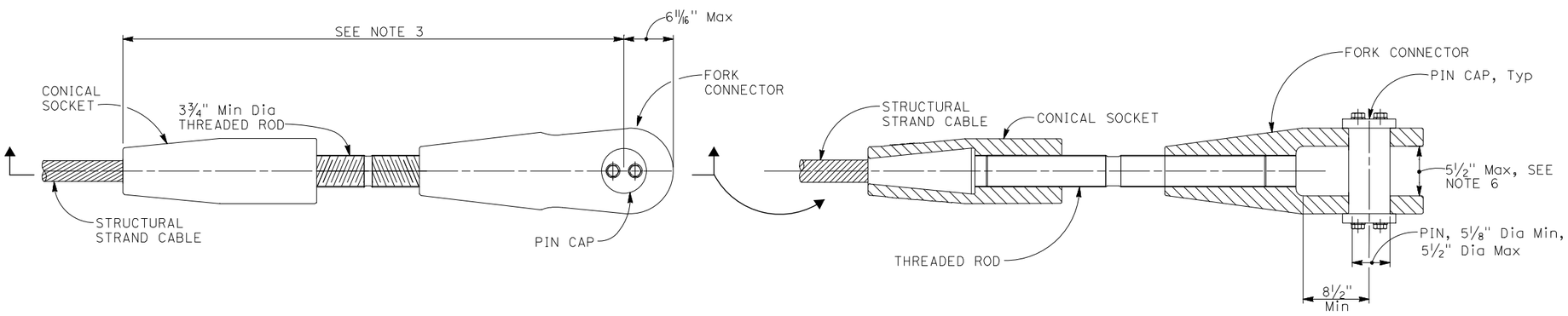


SPHERICAL NUT
DETAIL 4
6" = 1'-0"

NOTES:
1. For backstay structural strand cable data, see "STAY CABLE DATA" sheet.
2. The Contractor must be responsible for the design of all structural strand cable connections and components in their entirety. Strength of all structural strand cable connections and components, including sockets, fork connectors, spherical nuts and disks, threaded rods, and pins, must be sufficient to develop the minimum breaking strength of the connected structural strand cable.
3. The backstay socket connections must have sufficient length to accommodate length variation of the stay cable assembly resulting from installation and stressing operations.
4. Opening in spherical disk must not exceed the diameter of the holes of the bearing plates at the pylon connection. Opening diameter must be ¼" greater than the diameter of the backstay socket connection threaded rod.
5. Opening diameter in spherical nut must allow for threaded connection of the backstay socket connection threaded rod.
6. The opening in the fork socket must not be greater than the combined thickness of the cable connection plate and and the pin plates by more than ¼ inch.
7. Center of radius is on the centerline of spherical disk and spherical nut.



BACKSTAY SOCKET CONNECTION AT PYLON
NO SCALE



BACKSTAY ADJUSTABLE FORK SOCKET CONNECTION
NO SCALE

Robert Des
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Bodemar	D. Devlin
DETAILS	J. Bodemar	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
STAY CABLE ASSEMBLY No. 1

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)
DATE PLOTTED => May 01, 2025 TIME PLOTTED => 5:10pm
FILE => 20180057SRB_S65.dwg USERNAME => SMH
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3
PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340
DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES: 5-10-22 1-10-23 6-28-24
SHEET 65 OF 117
20180057SRB_S65

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	171	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

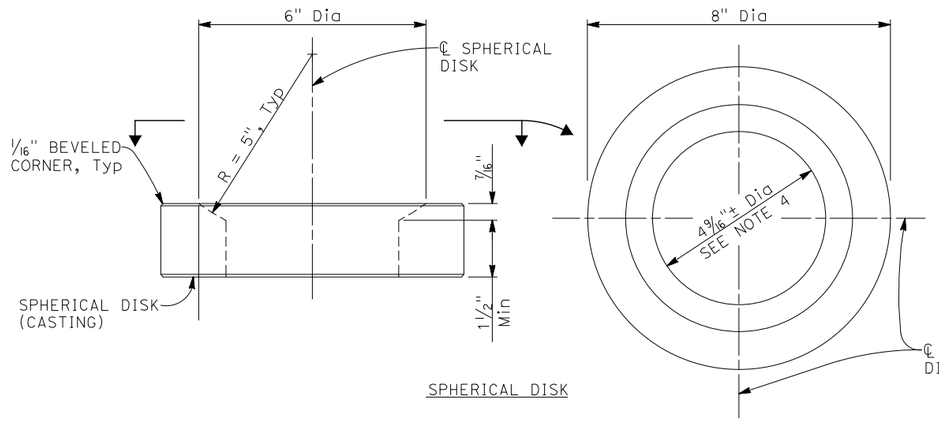
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

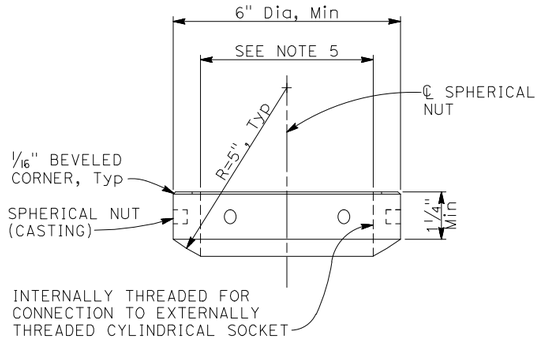
BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126



SPHERICAL DISK

DETAIL 5

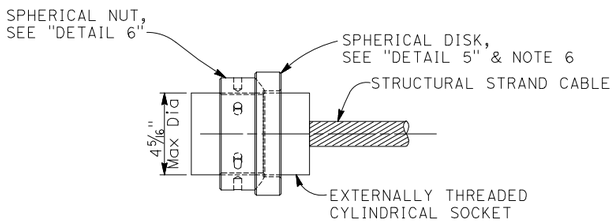
6" = 1'-0"



SPHERICAL NUT

DETAIL 6

6" = 1'-0"

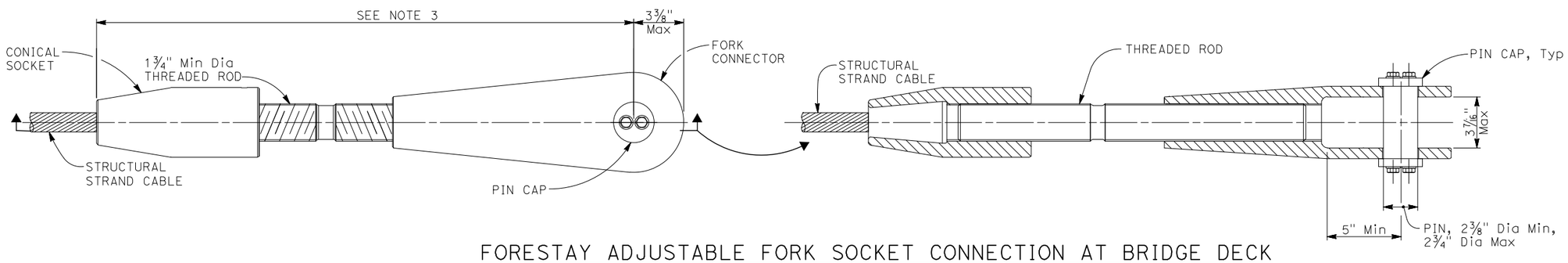


NOTES:

1. For forestay structural strand cable stay data, see "STAY CABLE DATA" sheet.
2. The Contractor must be responsible for the design of all structural strand cable connections and components in their entirety. Strength of all structural strand cable connections and components, including sockets, fork connectors, spherical nuts and disks, threaded rods, and pins, must be sufficient to develop the minimum breaking strength of the connected structural strand cable.
3. The forestay adjustable fork sockets must have sufficient length to accommodate length variation of the stay cable assembly resulting from installation and stressing operations.
4. Opening in spherical disk must not exceed the inside diameter of the forestay HSS connection at the pylon. Opening must be greater than the diameter of the forestay externally threaded cylindrical socket.
5. Opening diameter in spherical nut must allow for threaded connection of externally threaded cylindrical socket.
6. See "PYLON DETAILS No. 5" sheet for connection details of spherical disk to HSS at pylon.

FORESTAY CYLINDRICAL SOCKET CONNECTION AT PYLON

NO SCALE



FORESTAY ADJUSTABLE FORK SOCKET CONNECTION AT BRIDGE DECK

NO SCALE

Robert A. Dees
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Bodemar	D. Devlin
DETAILS	J. Bodemar	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
STAY CABLE ASSEMBLY No. 2

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 5:10pm
FILE => 2018057SRB_S66.dwg USERNAME => SMH
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
6-10-22	1-10-23	6-28-24		66	117

2018057 (2018057SRB_S66)

STAY CABLE	APPROXIMATE CABLE LENGTH (FEET)	CABLE INSTALLATION FORCE (KIPS)	BACKSTAY STRESSING STEP 1 (KIPS)	FORESTAY STRESSING STEP 2 (KIPS)	BACKSTAY STRESSING STEP 3 (KIPS)	FORESTAY STRESSING STEP 4 (KIPS)	CABLE FORCE AT FALSEWORK RELEASE (KIPS)	PERMANENT LOAD CABLE FORCE, DC+DW (KIPS)	STRENGTH LIMIT STATE CABLE FORCE, Max (KIPS)	EXTREME LIMIT STATE SEISMIC CABLE FORCE, Max (KIPS)
FS1N	260.2	6.2*	9.0	18.4*	27.8	36.9*	36.7	33.3	50.2	61.8
FS2N	248.0	6.2*	9.6	18.4*	28.4	36.9*	36.8	34.3	51.5	60.6
FS3N	235.9	6.2*	10.4	18.0*	28.4	36.1*	36.1	35.0	52.8	58.8
FS4N	224.1	6.2*	11.4	16.7*	27.5	33.4*	33.5	34.3	51.8	57.6
FS5N	212.3	6.2*	12.6	15.5*	26.6	31.0*	31.2	33.9	54.9	58.2
FS6N	200.8	6.2*	13.7	14.3*	25.5	28.5*	28.8	33.4	61.0	62.7
FS7N	189.6	6.2*	14.6	13.2*	23.8	26.3*	26.7	32.9	66.8	67.8
FS8N	178.8	6.2*	15.4	12.1	21.8	24.2*	24.6	31.9	70.1	67.9
FS9N	168.3	6.2*	16.1	12.1	21.2	22.2*	22.5	30.3	70.0	67.1
FS10N	158.5	6.2*	16.7	12.8	21.4	20.3*	20.5	28.0	65.7	63.5
FS11N	149.2	6.2*	16.9	13.2	21.2	18.5*	18.6	24.9	57.1	55.5
FS12N	140.8	6.2*	15.9	12.8	19.7	17.0*	17.0	21.3	44.1	46.6
FS13N	133.3	6.2*	14.3	11.9	17.6	15.7*	15.6	17.1	32.3	39.6
FS14N	127.1	6.2*	12.2	10.6	14.9	18.0*	17.8	16.3	24.9	39.2
FS15N	122.0	6.2*	9.3	10.0*	12.4	20.0*	19.8	16.0	24.5	42.1
FS1S	261.2	6.2*	8.7	18.4*	27.8	36.9*	36.7	32.5	49.0	59.2
FS2S	249.1	6.2*	9.3	18.4*	28.3	36.9*	36.8	33.4	50.2	55.8
FS3S	237.1	6.2*	10.0	18.0*	28.4	36.1*	36.1	34.1	51.4	54.6
FS4S	225.3	6.2*	10.8	16.7*	27.4	33.4*	33.5	33.2	50.3	53.8
FS5S	213.6	6.2*	11.8	15.5*	26.6	31.0*	31.2	33.0	52.8	54.4
FS6S	202.2	6.2*	12.8	14.3*	25.4	28.5*	28.8	32.3	57.2	56.6
FS7S	191.1	6.2*	13.6	13.2*	23.8	26.3*	26.7	31.8	63.3	64.8
FS8S	180.3	6.2*	14.2	12.1*	21.9	24.2*	24.5	30.7	66.1	63.7
FS9S	170.0	6.2*	14.7	11.3	20.3	22.2*	22.5	29.2	66.2	62.4
FS10S	160.2	6.2*	15.2	11.8	20.6	20.3*	20.5	26.9	61.7	57.3
FS11S	151.1	6.2*	15.3	12.1	20.5	18.5*	18.6	23.9	53.4	50.7
FS12S	142.7	6.2*	14.2	11.7	19.2	17.0*	17.0	20.4	40.5	47.8
FS13S	135.4	6.2*	12.6	10.8	17.4	15.7*	15.6	16.4	28.7	54.9
FS14S	129.2	6.2*	10.4	9.5	15.1	18.0*	17.8	15.8	24.0	70.3
FS15S	124.2	6.2*	7.6	10.0*	14.2	20.0*	19.8	15.6	23.8	92.4
BS1N	105.3	25.3*	124.3*	136.1	248.7*	277.7	278.6	298.6	462.3	492.1
BS2N	111.5	25.3*	124.3*	135.9	248.7*	278.6	279.5	300.8	470.4	489.9
BS3N	119.4	25.3*	124.3*	135.6	248.7*	279.1	280.2	302.5	477.2	493.0
BS1S	105.3	25.3*	105.9*	121.9	211.9*	241.2	242.3	262.2	413.8	442.1
BS2S	111.5	25.3*	105.9*	121.5	211.9*	242.0	243.0	264.2	422.0	445.1
BS3S	119.4	25.3*	105.9*	121.0	211.9*	242.4	243.6	265.9	429.0	444.1

NOTES:

1. Backstay structural strand cables must have a nominal diameter of 2¾" and have a minimum breaking strength of 904 kips and a nominal axial stiffness (gross metallic area times modulus of elasticity of prestretched cable) equal to 103,500 kips.
2. Forestay structural strand cables must have a nominal diameter of 1⅝" and a minimum breaking strength of 212 kips and a nominal axial stiffness (gross metallic area times modulus of elasticity of prestretched cable) equal to 24,000 kips.
3. The approximate cable lengths shown are theoretical lengths of the stay cable assemblies between forestay work points and backstay work points.
4. The contractor must calculate length of cables based on loads provided in table, structural and connection geometry, bridge camber, cable lengthening, cable sag, and the anticipated temperature at time of installation.
5. Cable forces designated with * are cables where cable tensioning operations are anticipated. Cable forces not designated with * are forces resulting from cable tensioning operations of other cables. An alternative cable stressing sequence may be submitted for review and approval by the Engineer.
6. The forestay and backstay stressing steps shown and anticipated cable tensioning operation locations shown indicate a general sequence of stay cable installation work and does not necessarily indicate all work required.
7. The Contractor must prepare a stay cable installation work plan, including the complete installation and stressing sequence of each individual stay cable assembly, equipment, and means and methods required for installation and stressing of the stay cable assemblies. The stay cable installation work plan, including substantiating calculations and drawings for each key stage, must be signed and sealed by an engineer who is registered as a civil engineer in the State of California and must be submitted to the Engineer for review.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	172	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Bodemar	D. Devlin
DETAILS	J. Bodemar	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
STAY CABLE DATA

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 5:11pm
FILE => 2018057SRB_S67.dwg USERNAME => SMH

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES: 6-10-22 | 1-10-23 | 6-28-24

SHEET 67 OF 117

2018057 (2018057SRB_S67)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	173	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

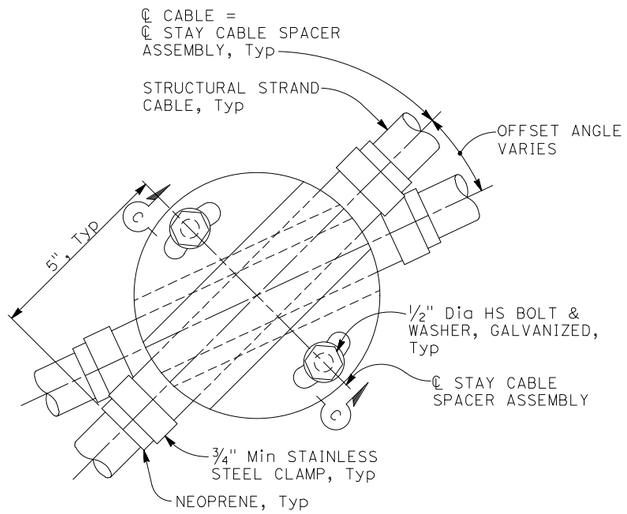
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SANTA ROSA, CA 95401

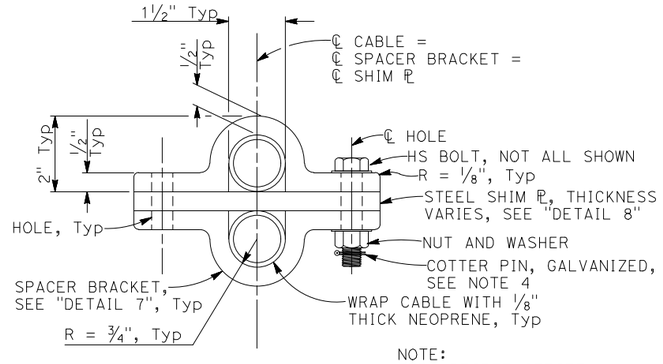
BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

STAY CABLE SPACER GEOMETRY TABLE

FORESTAYS	FS1N-FS2N	FS2N-FS3N	FS3N-FS4N	FS4N-FS5N	FS5N-FS6N	FS6N-FS7N	FS7N-FS8N	FS8N-FS9N	FS9N-FS10N	FS10N-FS11N	FS11N-FS12N	FS12N-FS13N	FS13N-FS14N	FS14N-FS15N
APPROXIMATE SHIM PLATE THICKNESS	7/8"	7/8"	7/8"	7/8"	3/4"	7/8"	3/4"	5/8"	5/8"	5/8"	1/2"	1/2"	1/2"	3/8"
FORESTAYS	FS1S-FS2S	FS2S-FS3S	FS3S-FS4S	FS4S-FS5S	FS5S-FS6S	FS6S-FS7S	FS7S-FS8S	FS8S-FS9S	FS9S-FS10S	FS10S-FS11S	FS11S-FS12S	FS12S-FS13S	FS13S-FS14S	FS14S-FS15S
APPROXIMATE SHIM PLATE THICKNESS	3 1/8"	3 1/4"	3"	3 1/8"	3 3/8"	3 1/4"	3 3/8"	3 5/8"	3 1/2"	3 5/8"	3 7/8"	3 3/4"	3 7/8"	4 1/4"

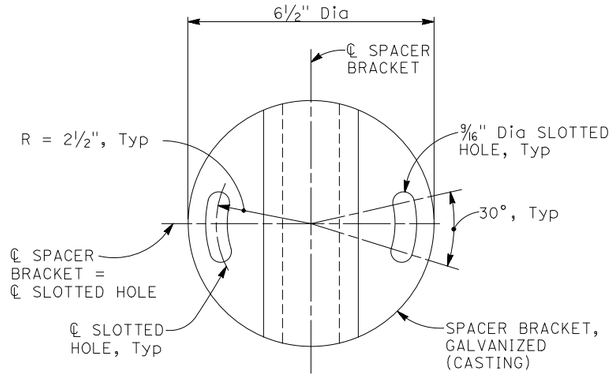


STAY CABLE SPACER ASSEMBLY
6" = 1'-0"

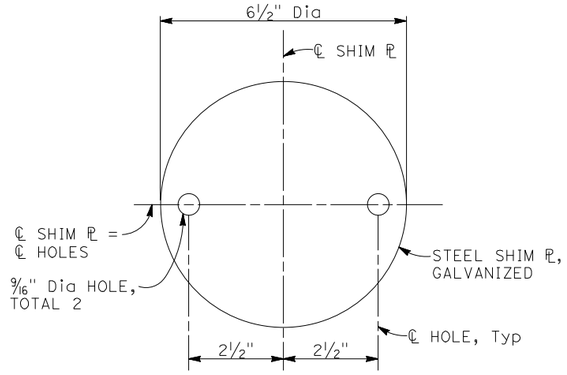


SECTION C-C
6" = 1'-0"

NOTE:
ZERO DEGREE OFFSET ANGLE SHOWN FOR CLARITY



DETAIL 7
6" = 1'-0"



DETAIL 8
6" = 1'-0"

NOTES:
1. Approximate shim plate thickness is shown for reference only. Thickness of shim plates must be equal to the clear distance between adjacent stay cables and must allow for full bearing of stay cable spacer assembly components without impacting the alignment of the stay cables. Verify dimensions before ordering or fabricating any material.
2. A maximum of two shim plates may be used at each stay cable spacer assembly.
3. Apply thread locking system to high strength bolted connections.
4. End of high strength bolt must have a hole for installation of cotter pin.

Robert Reo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
STAY CABLE SPACER DETAILS

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)
DATE PLOTTED => May 01, 2025 TIME PLOTTED => 5:11pm
FILE => 2018057SRB_S68.dwg USERNAME => SMH
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3
PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340
DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES: 6-28-24
SHEET 68 OF 117
(2018057SRB_S68)

NOTES:
1. For work point locations, see "STEEL BOX FRAMING PLAN" sheet.
2. For web plate splice details, see "STEEL BOX DETAILS No. " sheet.
3. Soffit access opening must be located not closer than 3" from soffit plate splices.
4. For "SECTION A-A", see "TUNED MASS DAMPER DETAILS No. 2" sheet.
5. For "DETAIL 4", see "TUNED MASS DAMPER DETAILS No. 3" sheet.

LEGEND:

(W12) Indicates work point measured along "EE" Line

Indicates vent opening at chord plates and web plates

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	174	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER DATE

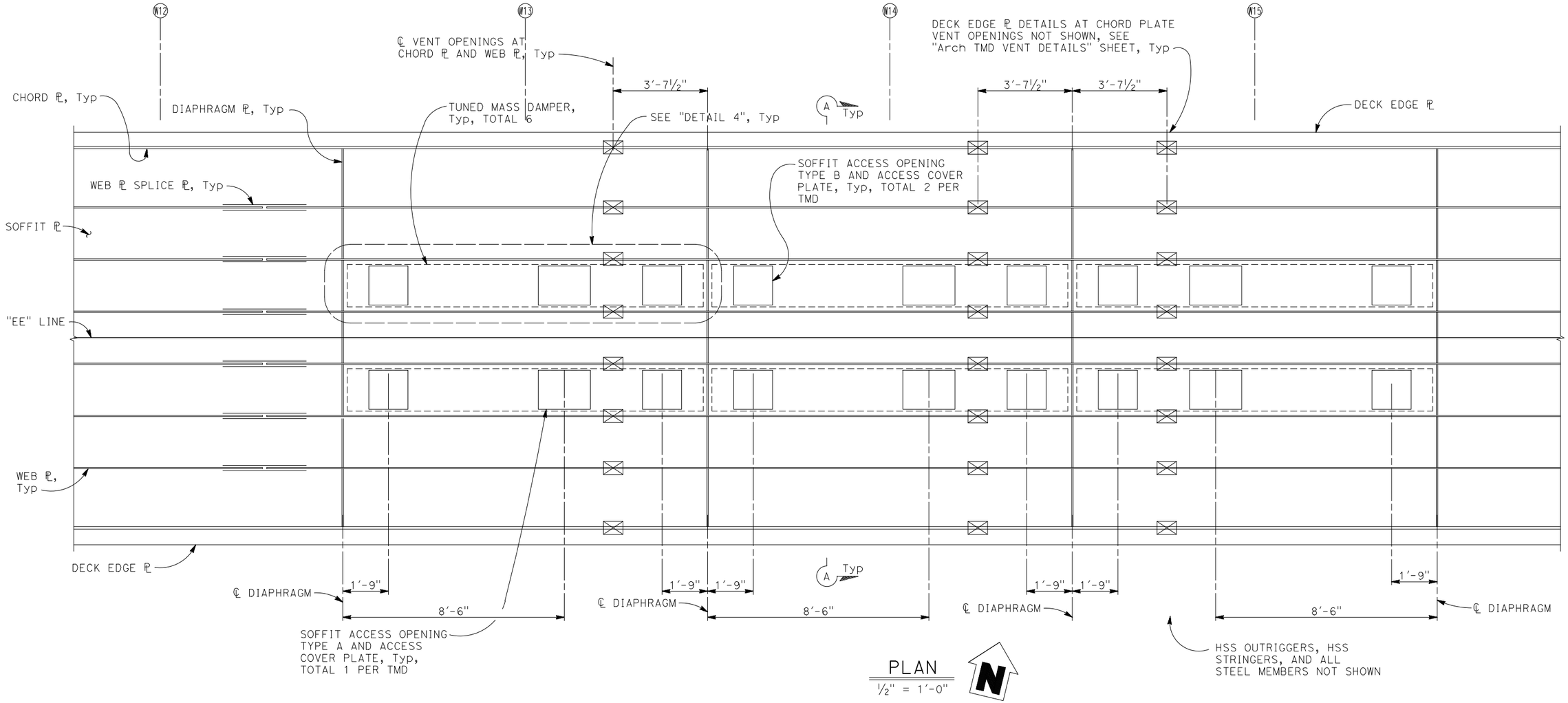
REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126



PLAN
½" = 1'-0"

N

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
TUNED MASS DAMPER DETAILS No. 1

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 5:12pm
FILE => 2018057SRB_S69.dwg USERNAME => SMH

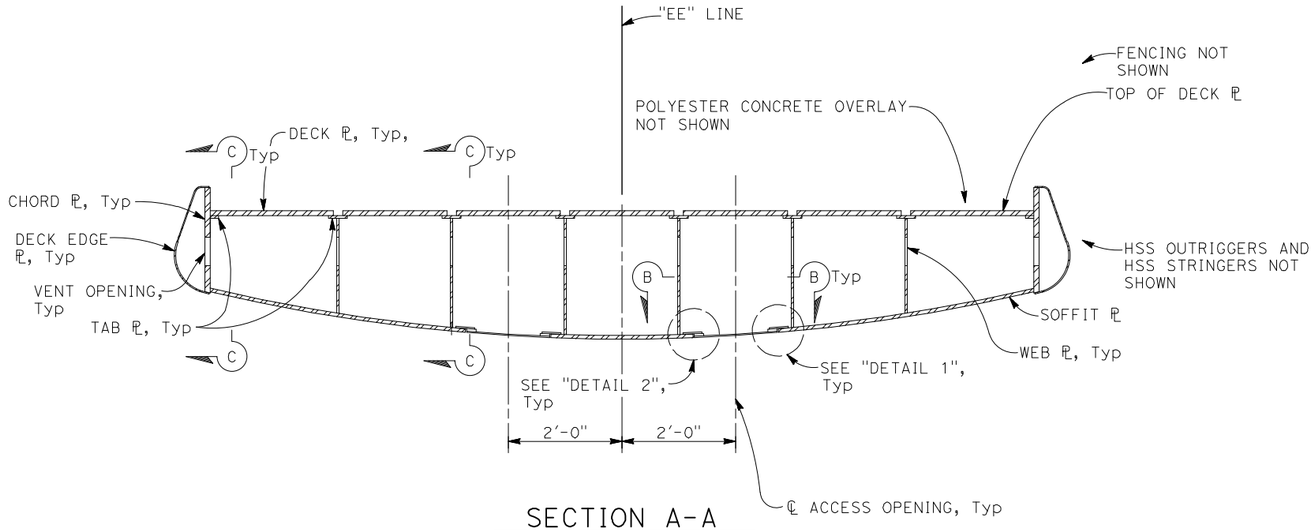
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

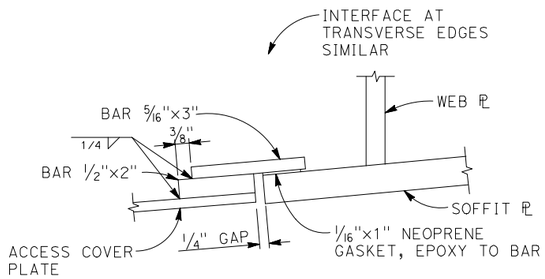
REVISION DATES				SHEET	OF
6-28-24	2-21-25			69	117

(2018057SRB_S69) 2018057



SECTION A-A

3/4" = 1'-0"

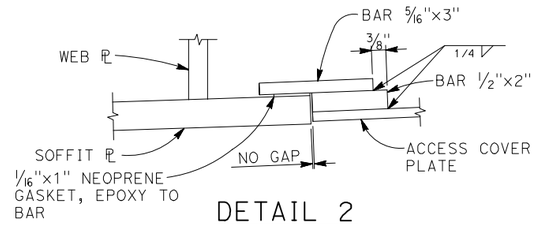


DETAIL 1

6" = 1'-0"

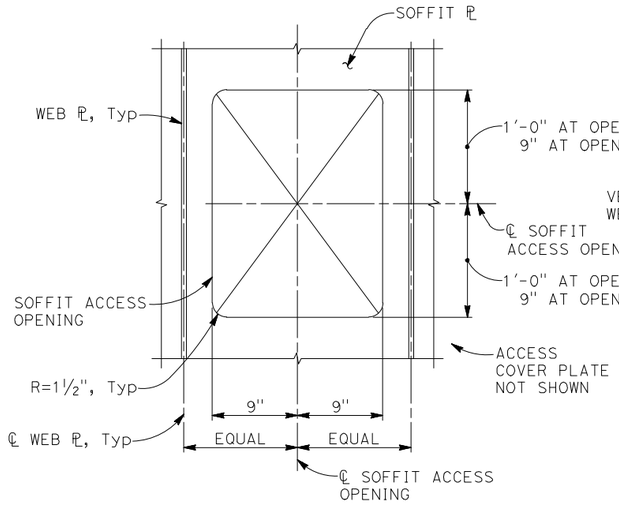
NOTES:

1. Cover plate must be installed before deck plate is installed.
2. Epoxy bond galvanized steel wire mesh hardware cloth firmly to interior face of access cover plate.



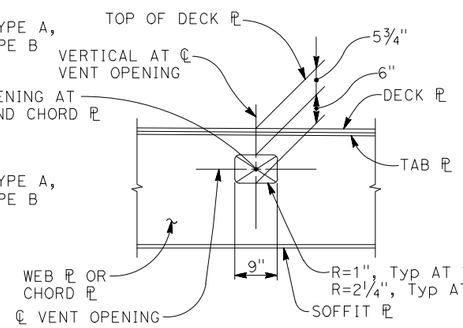
DETAIL 2

6" = 1'-0"



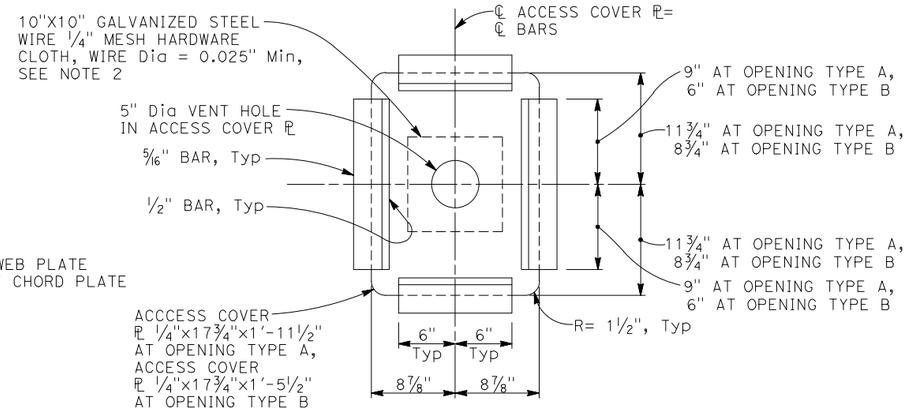
SECTION B-B

1 1/2" = 1'-0"



SECTION C-C

3/4" = 1'-0"



DETAIL 3

1 1/2" = 1'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	175	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp. 3/31/26 CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

Robert Des
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
TUNED MASS DAMPER DETAILS No. 2

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

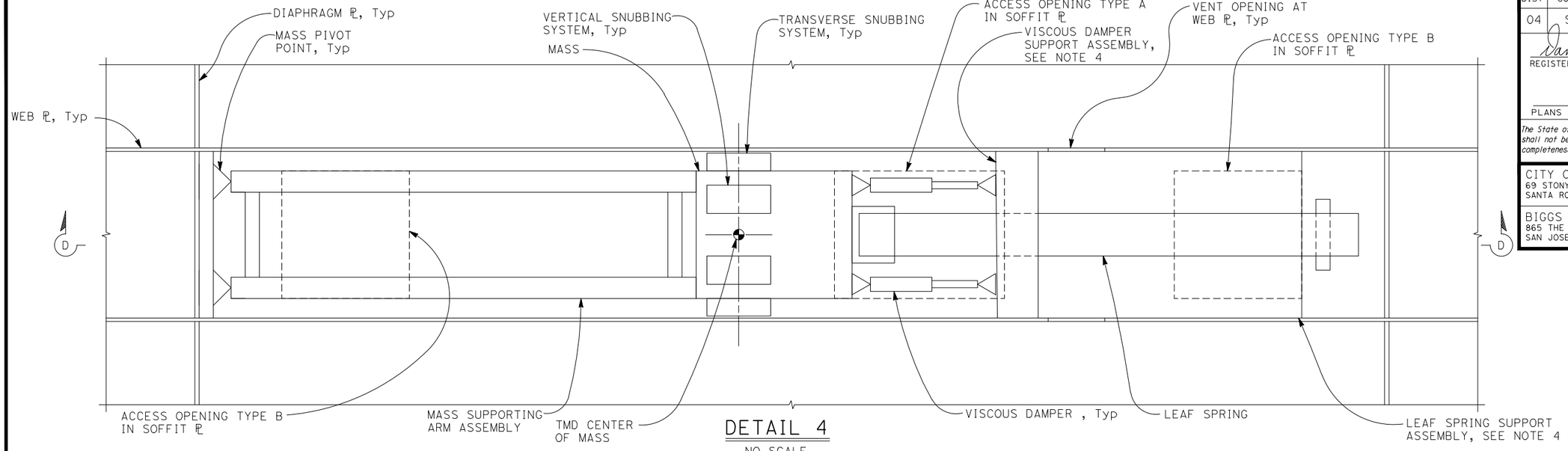
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

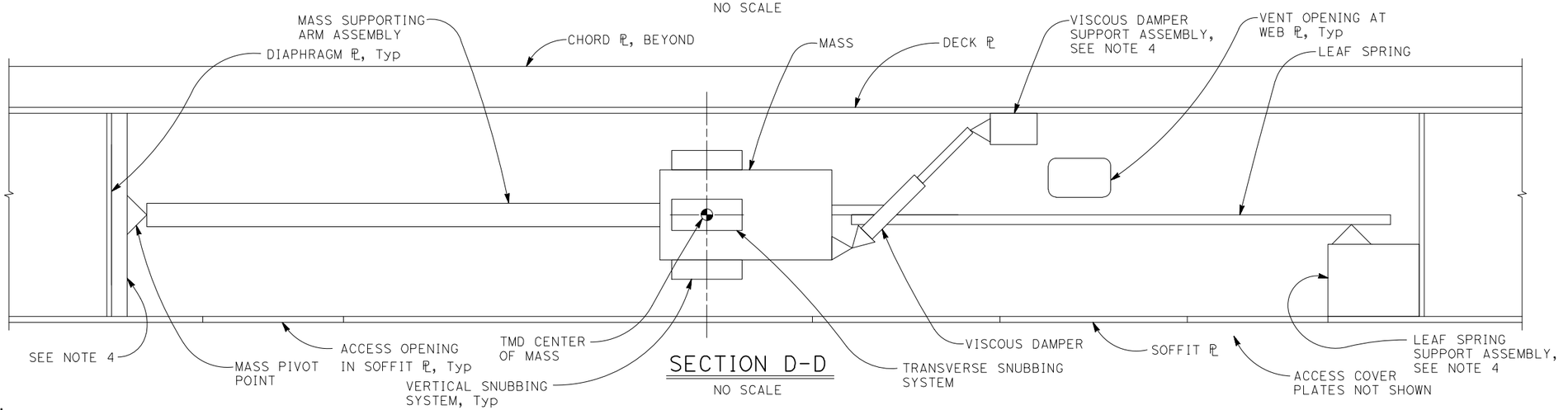
REVISION DATES				SHEET	OF
6-28-24				70	117

(2018057SRB_S71)



DETAIL 4

NO SCALE



SECTION D-D

NO SCALE

NOTES:

1. TMD size and locations shown are conceptual. Contractor is responsible for vibration analysis, manufacture, installation, and as-built performance testing to confirm the target design criteria for wind-induced bridge vibrations have been achieved. Target design criteria is to achieve peak vertical wind-induced accelerations of the superstructure due to vortex shedding or buffeting, as follows:
   - Less than 5 percent of the acceleration of gravity, g, for steady wind speeds less than or equal to 30 mph, and
   - Less than 10 percent of the acceleration of gravity, g, for steady wind speeds greater than 30 mph and less than or equal to 50 mph.
2. Contractor must coordinate with the Engineer of Record to establish the final integration details, position, configuration, and connection details of the TMDs.
3. TMDs must be able to operate within their motion envelope while not interfering with other bridge members.
4. The Contractor is responsible for the design of the TMD connections to the superstructure. The proposed connection details and supporting calculations must be submitted to the Engineer for review. No work must be performed prior to the authorization of the proposed connection details. Distribute connection forces such that TMD induced stresses into the steel plates of the superstructre are less than the following:
   - Deck plates: 18 ksi longitudinally and 24 ksi transversely
   - Soffit plates: 6 ksi longitudinally and 12 ksi transversely
   - Web plates 12 ksi longitudinally and 20 ksi vertically
   - Diaphragm plates: 36 ksi vertically and 36 ksi transversely

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	176	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
TUNED MASS DAMPER DETAILS No. 3

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 5:13pm
FILE => 2018057SRB_S71.dwg USERNAME => SMH

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131

COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES: 6-28-24

SHEET 71 OF 117

2018057 (2018057SRB_S71)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	177	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

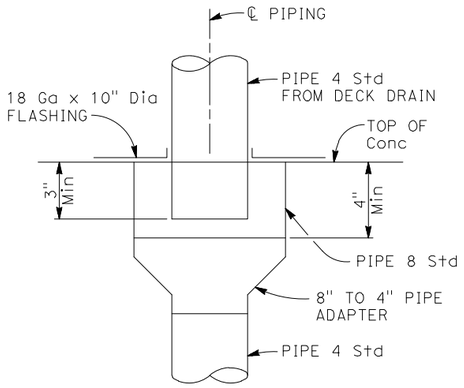
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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

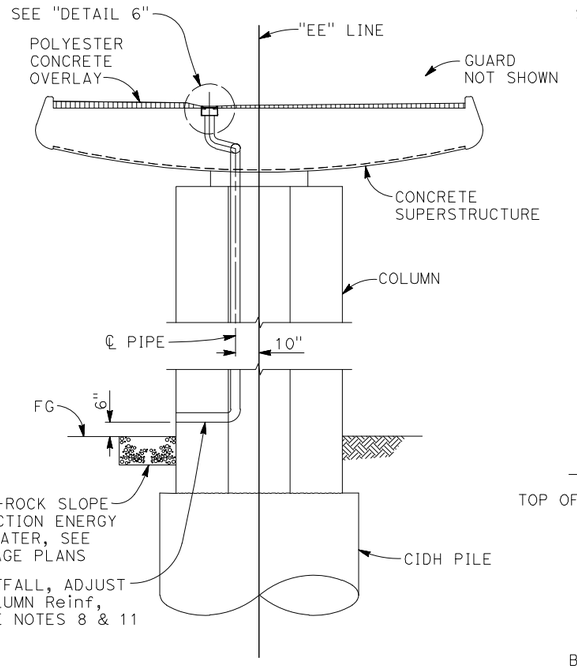
DECK DRAIN LOCATION TABLE

℄ DECK DRAIN ASSEMBLY	DETAIL	OUTFALL LOCATION	OUTFALL DIRECTION
1.46 Lt "EE" 11+94.00	"DETAIL 3"	ABUTMENT 1	SOUTH FACE
1.46 Lt "EE" 12+41.00	"DETAIL 3"		
1.46 Lt "EE" 12+89.00	"DETAIL 3"		
1.46 Lt "EE" 13+38.00	"DETAIL 1"	BENT 4	NORTH FACE
1.46 Lt "EE" 13+87.00	"DETAIL 1"		
1.46 Lt "EE" 15+14.75	"DETAIL 2"	BENT 7	SOUTH FACE
1.46 Lt "EE" 15+35.75	"DETAIL 2"		
1.46 Lt "EE" 15+49.75	"DETAIL 2"		
1.46 Lt "EE" 17+17.75	"DETAIL 2"	BENT 8	SOUTH FACE
1.46 Lt "EE" 17+31.75	"DETAIL 2"		
1.46 Lt "EE" 17+63.25	"DETAIL 2"		
1.46 Lt "EE" 18+80.50	"DETAIL 4"	ABUTMENT 11	NORTH FACE
1.46 Lt "EE" 19+33.50	"DETAIL 4"		

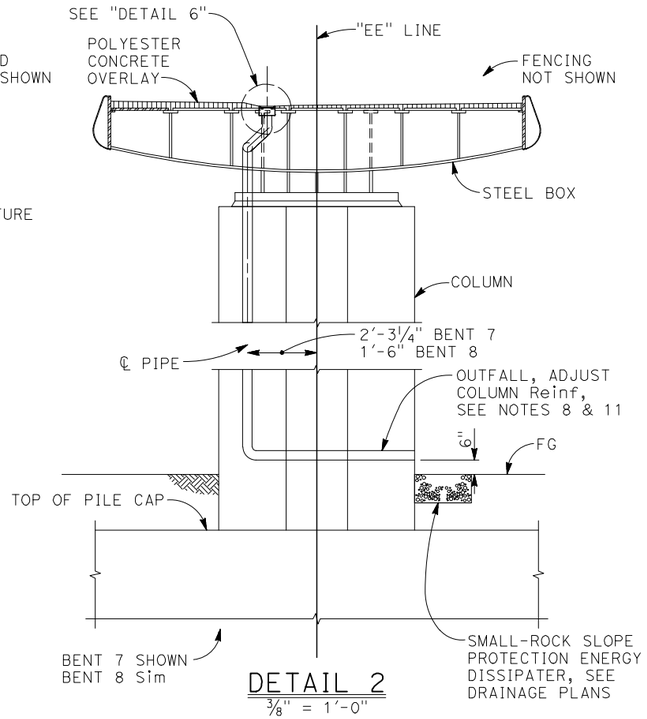


DETAIL 5
3" = 1'-0"

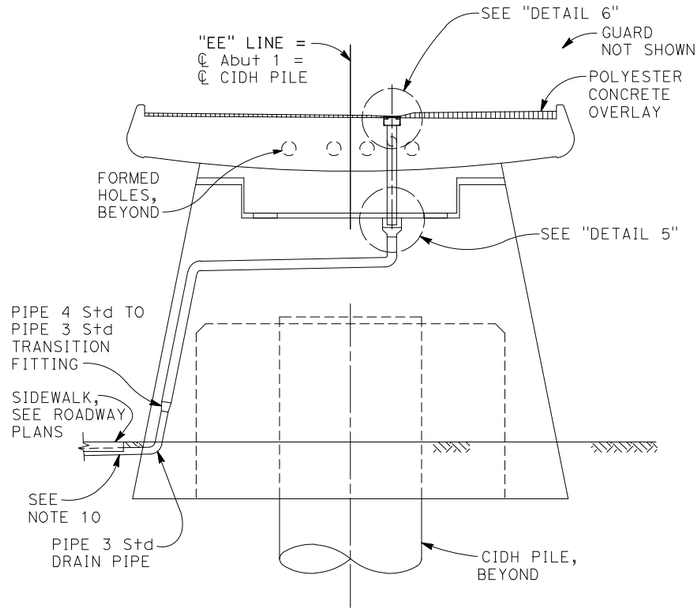
NOTES:
1. All pipe must be pipe 4 Std except as noted and galvanized if not encased in concrete.
2. Fittings and bends must have a minimum wall thickness of 1/8".
3. All joints or connections must be butt welded or connected by a steel pipe sleeve and to be smooth throughout inside of pipe except as noted.
4. All bends must be on 0'-10" minimum radius measured along ℄ pipe. All bends must be smooth.
5. Slope pipes to drain, 1.0% slope minimum.
6. Pipes not encased in concrete must be supported by suitable galvanized hangers @ 10'-0" maximum spacing throughout.
7. Galvanize deck drain assembly after fabrication.
8. Final deck drain & pipe locations may be adjusted in the field (by 12" max longitudinally) to avoid conflicts.
9. See ROADWAY PLANS for rock blanket or other dissipation devices to be placed under drain outlets.
10. Sidewalk drain, see ROADWAY PLANS.
11. For adjustment of column Reinf, see "DETAIL 6" on "BENT DETAILS No. 1" sheet.
12. For "DETAIL 6", see "DECK DRAINAGE DETAILS No. 2" sheet.



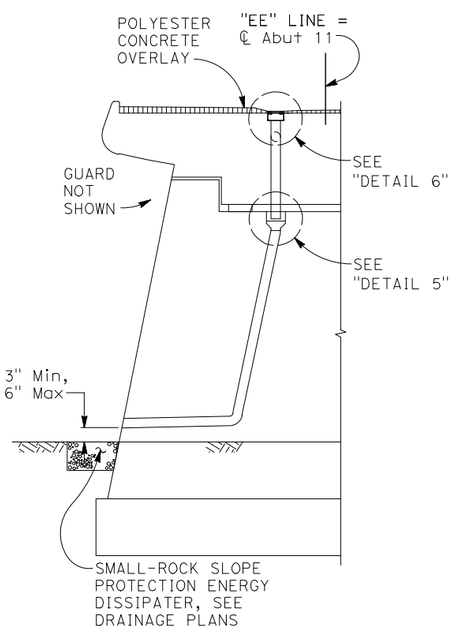
DETAIL 1
3/8" = 1'-0"



DETAIL 2
3/8" = 1'-0"



DETAIL 3
3/8" = 1'-0"



DETAIL 4
3/8" = 1'-0"

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	A. Notaro	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
DECK DRAINAGE DETAILS No. 1

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 5:13pm
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

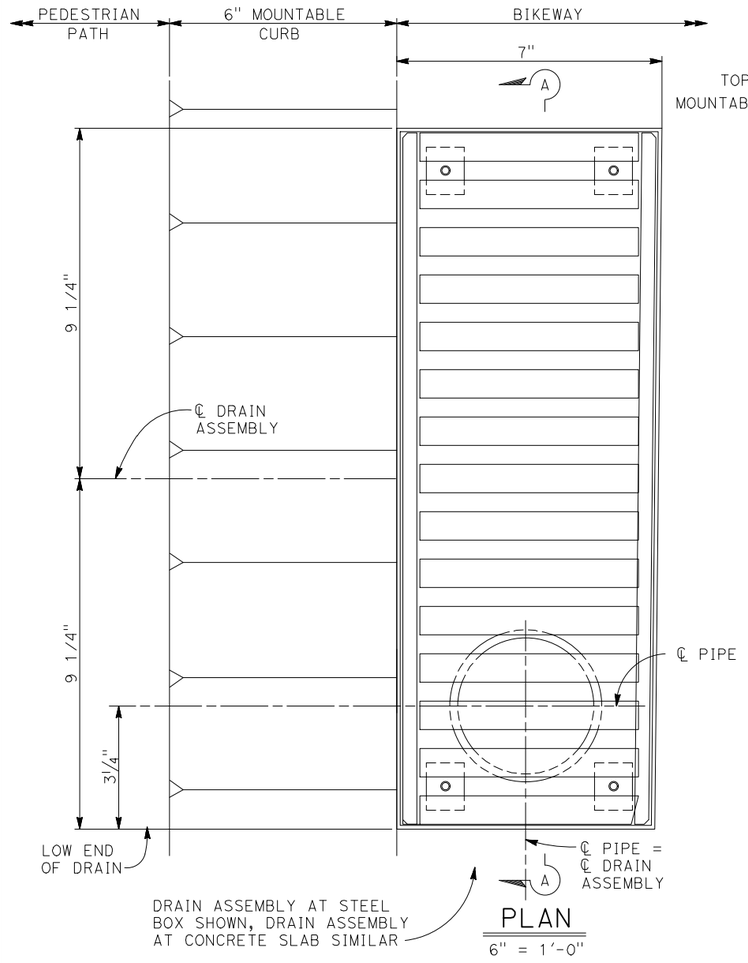
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES			
6-10-22		2-21-25	10-4-24

SHEET	OF
72	117

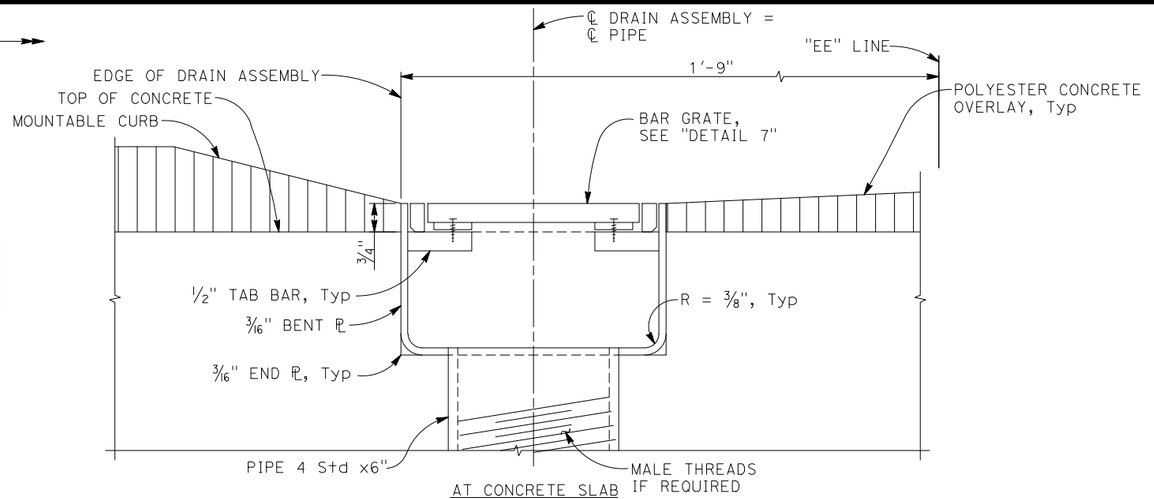
2018057

(2018057SRB_S72)

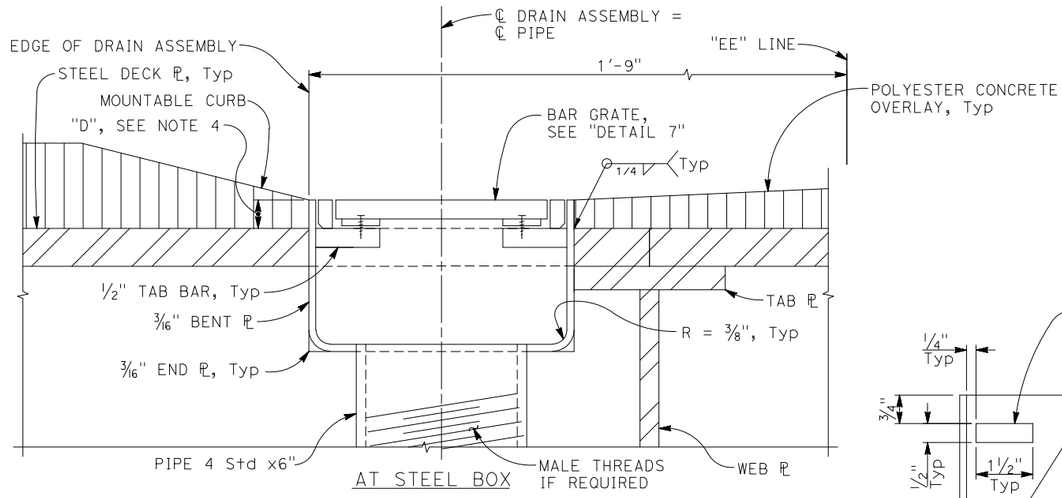


PLAN

6" = 1'-0"



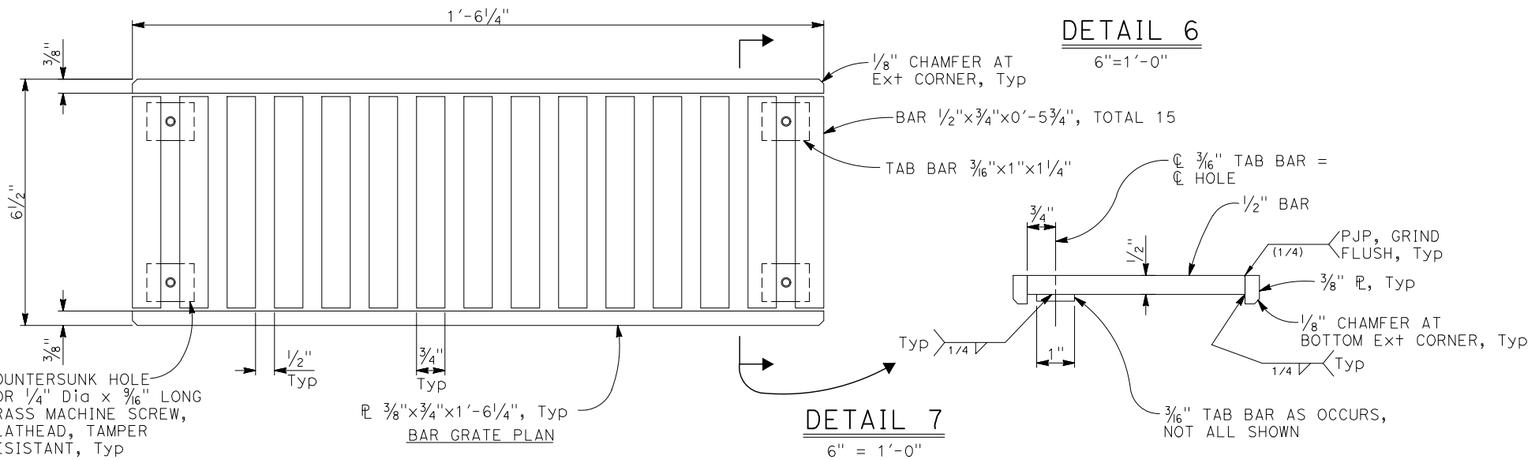
AT CONCRETE SLAB



AT STEEL BOX

DETAIL 6

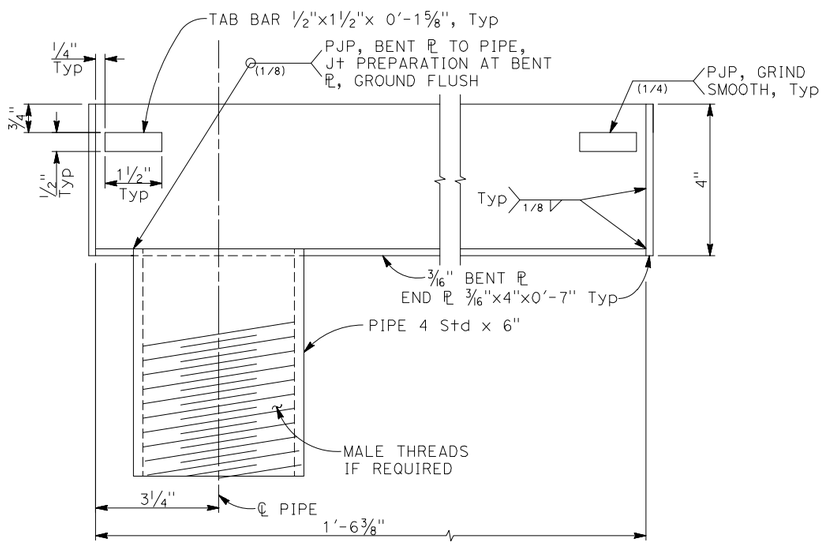
6"=1'-0"



BAR GRATE PLAN

DETAIL 7

6" = 1'-0"



SECTION A-A

6" = 1'-0"

NOTES:
1. The frame and grate must not extend above the surface of the polyester concrete overlay.
2. Prior to installing bolts, grates must provide a flush top surface with full and even bearing on the tab plates and frames. Rocking and shifting the gates under applied vertical load is not allowed.
3. Galvanize deck drain assemblies and bar grates after fabrication.
4. For dimension "D", see "PRINCIPAL SPAN TYPICAL SECTION" sheet.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	178	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

Rakesh Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	A. Notaro	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO.	POST MILES
20-0307	21.5

EDWARDS AVENUE POC
DECK DRAINAGE DETAILS No. 2

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 5:14pm
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
6-10-22	1-10-23	6-28-24	10-4-24	73	117

2018057 (2018057SRB_S73)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	179	247

Daniel Rosellini 5/2/25
REGISTERED CIVIL ENGINEER DATE

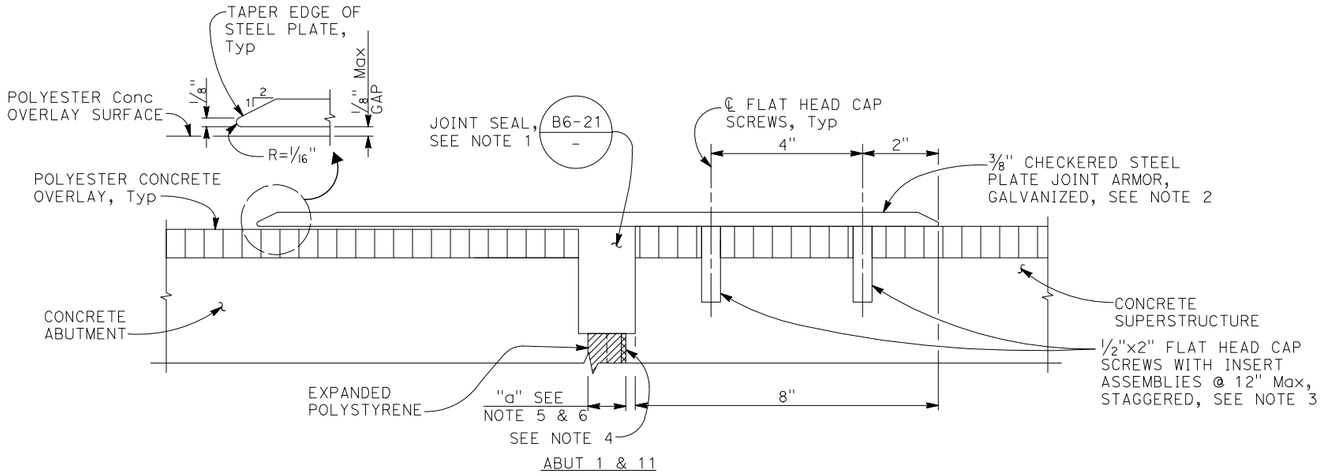
REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

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69 STONY CIRCLE
SANTA ROSA, CA 95401

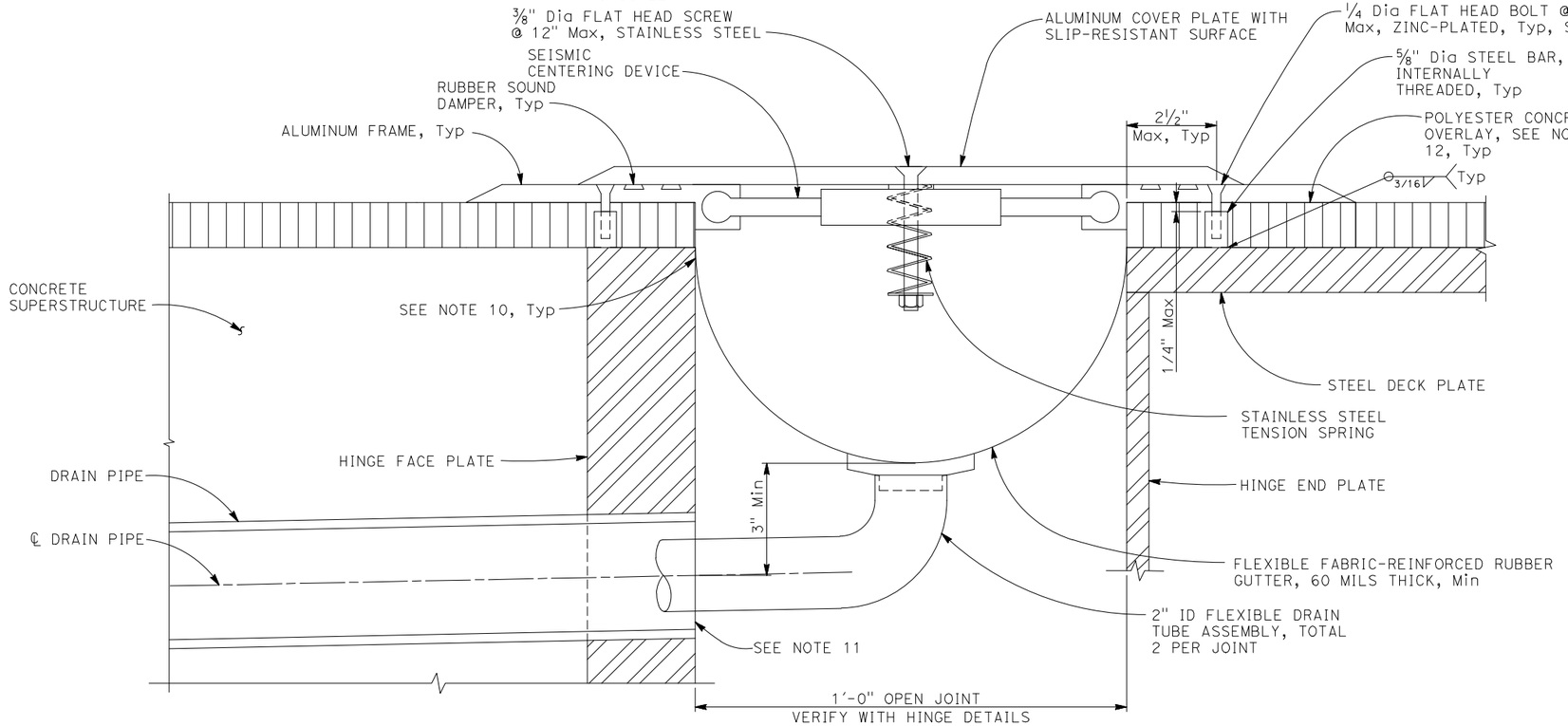
BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126



ABUT 1 & 11

SECTION A-A

NO SCALE



CONCRETE SIDE — EXPANSION JOINT ASSEMBLY AT HINGES 6A & 8A — STEEL SIDE

SECTION B-B

NO SCALE

NOTES:

1. MR (movement rating) is as follows:
   - -Abut 1: MR = 1½"
   - -Hinge 6A: MR = 4"
   - -Hinge 8A: MR = 1"
   - -Abut 11: MR = 1"
2. Checkered steel plate joint armor must be surface mounted. Shape the armor to the section of the polyester concrete overlay and match-mark it in the shop. Provide 1" clear from face of curb to end of plate.
3. First and last flat head cap screws must be placed 3" from end of plate.
4. ⅛" max thickness hardboard protection on concrete placement side, or sides.
5. Dimension "a" for MR = 1" is as follows:
   - 1" Winter
   - ¾" Fall/Spring
   - ½" Summer
6. Dimension "a" for MR = 1½" is as follows:
   - 1¼" Winter
   - 1" Fall/Spring
   - ½" Summer
7. Expansion joint assemblies at Hinges 6A and 8A must be designed to resist AASHTO H-10 vehicular loading. Submit shop drawings and design calculations for Engineer's authorization.
8. Expansion joint assembly must be shaped to the section of the polyester concrete overlay. Provide 1" clear from face of curb to end of expansion joint assembly.
9. Flat head bolts must be embedded not less than ½" into internally threaded steel bar. First and last flat head bolts must be placed 3" from end of aluminum frame.
10. Attach flexible fabric-reinforced rubber gutter to provide a watertight seal between the rubber gutter and steel and concrete surfaces.
11. Connect flexible drain tube assembly to drain pipes at concrete superstructure using fittings to provide leak-free connection. For drain pipe locations and details, see "HINGE DETAILS No. 1" sheet.
12. Polyester concrete overlay must provide a straight and flush surface for full and even bearing under the aluminum frame.
13. For abutment details not noted, see "ABUTMENT DETAILS" sheets.
14. For hinge details not noted, see "HINGE DETAILS" sheets.

Robert Reis
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	A. Notaro	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
JOINT SEAL DETAILS

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

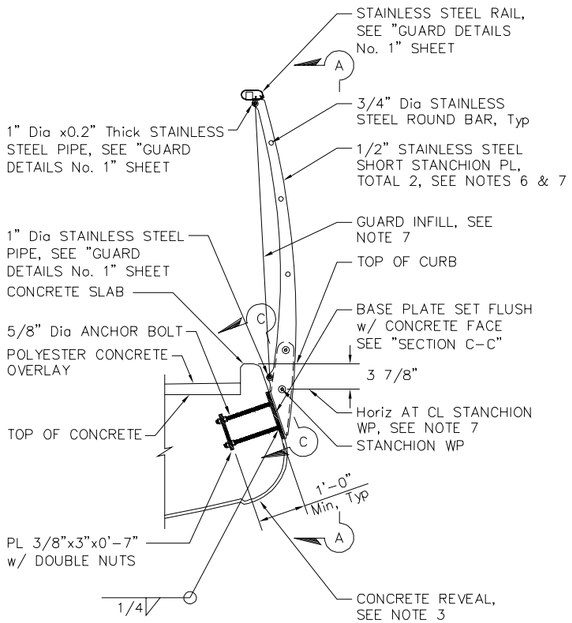
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
6-10-22	1-10-23	6-28-24	10-4-24	74	117

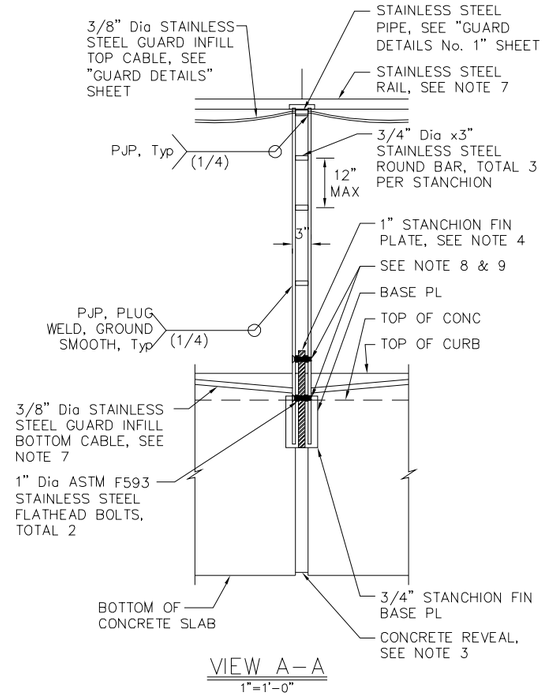
(2018057\SHB_S74)



GUARD

DETAIL 1

1"=1'-0"



VIEW A-A

1"=1'-0"

NOTES:

1. For additional details of fencing system connected to forestay cables, see "STAY CABLE FENCING DETAILS" sheet.
2. Except for fencing system connected to forestay cables, tension in cables after installation of system, complete in place, including tensioning of all fence cables and installation of fencing infill, must comply with:
   - GUARD INFILL TOP CABLE: 2.0 kips maximum, 1.0 kips minimum
   - GUARD INFILL BOTTOM CABLE: 2.0 kips maximum, 1.0 kips minimum
3. For concrete reveal details, see "DETAIL 2" on "APPROACH STRUCTURE TYPICAL SECTION" sheet.
4. Fin plates must be located at locations of stanchions. For fin plate geometry, see "STANCHION GEOMETRICS" sheet.
5. For deck edge plate details at fin plates, see "SECTION H-H" on "steel box details no. 4" sheet.
6. For stanchion details not shown, see "GUARD DETAILS", "GUARD WITH HANDRAIL DETAILS", and "STANCHION GEOMETRICS" sheets.
7. For details of fencing, fencing infill, guard infill, guard and fencing cables, cross bracing cables, and rail not shown, see "GUARD DETAILS", "GUARD WITH HANDRAIL DETAILS", and "GUARD WITH FENCING DETAILS" sheets.
8. Stanchions holes are threaded to accept stainless steel bolts.
9. Install stainless steel bolts with thread locking compound.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	180	247

REGISTERED CIVIL ENGINEER — DATE 2/21/25

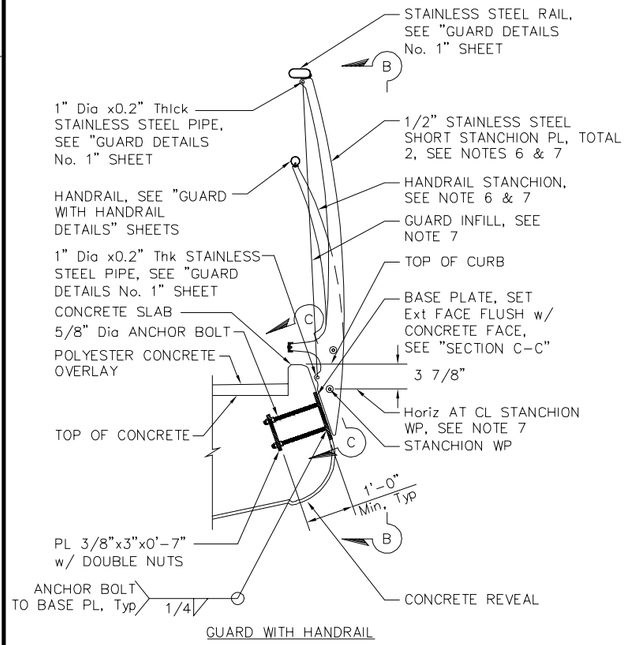
REGISTERED PROFESSIONAL ENGINEER — JESUS FRANCISCO SIERRA — No. S3298 Exp. 3/31/25 — STRUCTURAL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

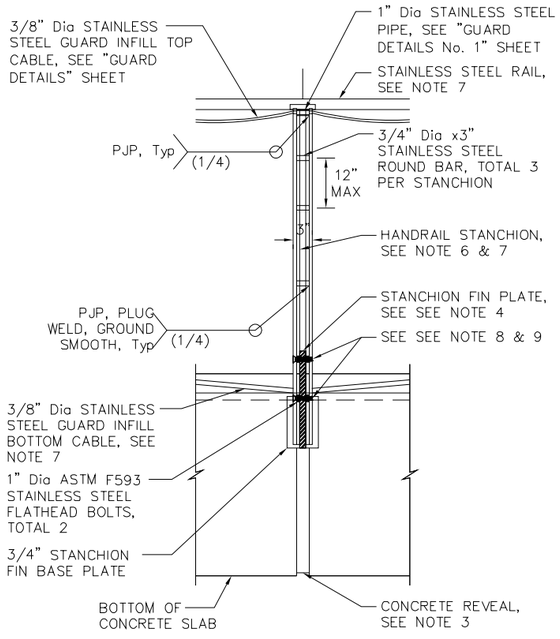
SIERRA ENGINEERING GROUP
39500 STEVENSON PL., SUITE 107
FREMONT, CALIFORNIA 94539



GUARD WITH HANDRAIL

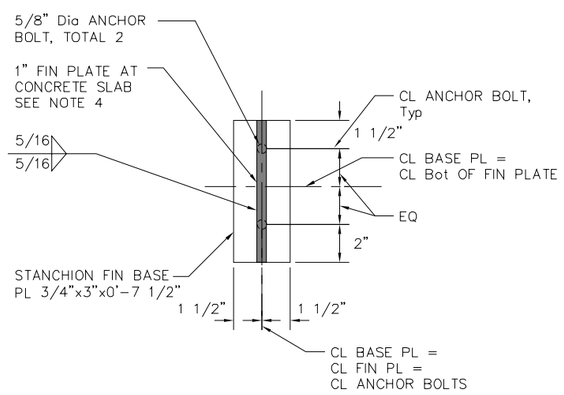
DETAIL 2

1"=1'-0"



VIEW B-B

1"=1'-0"



SECTION C-C

3"=1'-0"

DESIGN OVERSIGHT — 5/16/25 SIGN OFF DATE

	BY	CHECKED
DESIGN	F. Franco	J. Sierra
DETAILS	F. Franco	J. Sierra
QUANTITIES	F. Franco	J. Sierra

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

F. Franco — PROJECT ENGINEER

BRIDGE NO.	20-0307
POST MILES	21.5

EDWARDS AVENUE POC
STANCHION DETAILS No. 1

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

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TIME PLOTTED => $TIME
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PROJECT NUMBER & PHASE: 04130002131

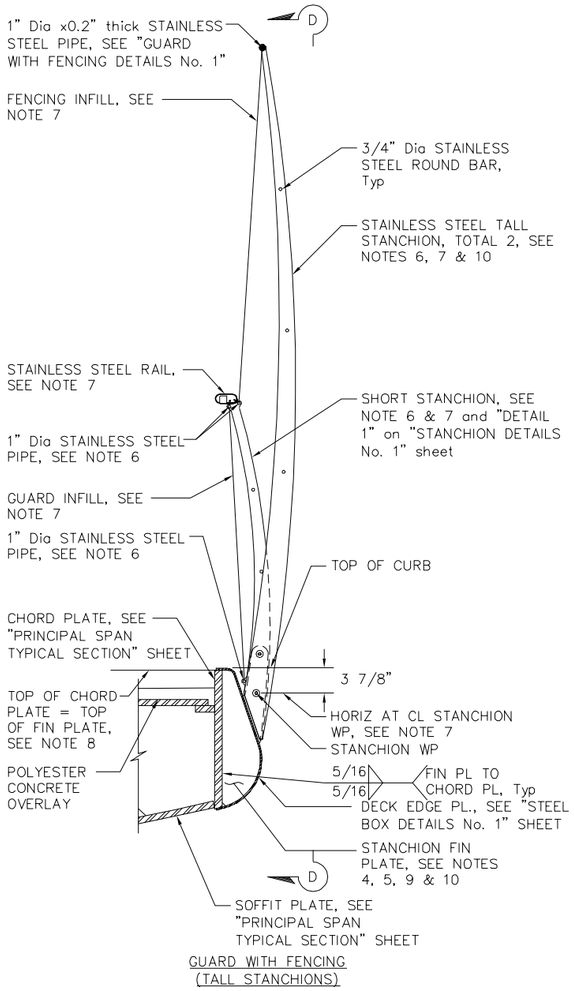
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
2-21-25				75	117

201805

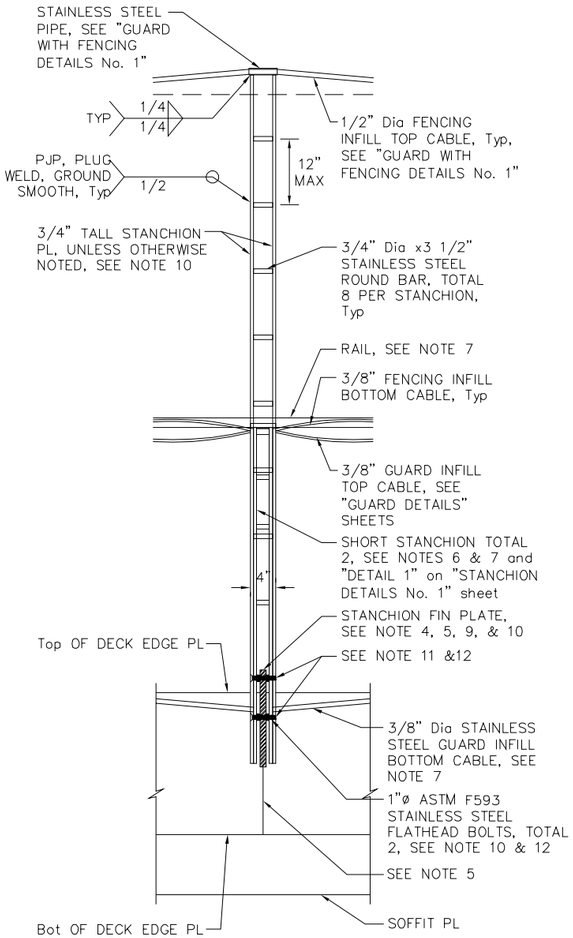
(201805SHB_S6)



GUARD WITH FENCING (TALL STANCHIONS)

DETAIL 3

1"=1'-0"



VIEW D–D

1"=1'-0"

NOTES:

1. For additional details of fencing system connected to forestay cables, see "STAY CABLE FENCING DETAILS" sheet.
2. Except for fencing system connected to forestay cables, tension in cables after installation of system, complete in place, including tensioning of all fence cables and installation of fencing infill, must comply with:
   - Fencing INFILL top cable : 4.0 maximum, 2.5 kips minimum
   - Fencing INFILL BOTTOM CABLE : 2.0 kips maximum, 1.0 kips minimum.
   - GUARD INFILL TOP CABLE : 2.0 kips maximum, 1.0 kips minimum
   - GUARD INFILL BOTTOM CABLE : 2.0 kips maximum, 1.0 kips minimum
3. For concrete reveal details, see "DETAIL 2" on "APPROACH STRUCTURE TYPICAL SECTION" sheet.
4. Fin plates must be located at locations of stanchions. For fin plate geometry, see "STANCHION GEOMETRICS" sheet.
5. For deck edge plate details at fin plates, see "SECTION H-H" on "STEEL BOX DETAILS No. 4" sheet.
6. For stanchion details not shown, see "GUARD DETAILS" and "GUARD WITH FENCING DETAILS", "GUARD WITH HANDRAIL DETAILS", and "STANCHION GEOMETRICS" sheets.
7. For details of fencing, fencing infill, guard infill, guard and fencing cables, cross bracing cables, and rail not shown, see "GUARD DETAILS", "GUARD WITH HANDRAIL DETAILS", and "GUARD WITH FENCING DETAILS" sheets.
8. Top of fin plate must match the top face of chord plate to allow full and even bearing of deck edge plate on chord plate.
9. Stanchion fin plate thickness = 1" typical unless noted otherwise.
10. From STA EE 14+65.75 to STA EE 14+79.75 and STA EE 17+52.75 to STA EE 17+66.75:
    - Tall Stanchion thickness = 1"
    - Stanchion fin plate thickness = 1 1/4"
    - Stainless steel bolt diameter at stanchion fin plate = 1 1/2"
11. Stanchions holes are threaded to accept stainless steel bolts.
12. Install stainless steel bolts with thread locking compound.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	181	247

REGISTERED CIVIL ENGINEER — DATE 2/21/25

REGISTERED PROFESSIONAL ENGINEER — JESUS FRANCISCO SIERRA — No. S3298 — Exp. 3/31/25 — STRUCTURAL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

SIERRA ENGINEERING GROUP
39500 STEVENSON PL., SUITE 107
FREMONT, CALIFORNIA 94539

DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	F. Franco	J. Sierra
DETAILS	F. Franco	J. Sierra
QUANTITIES	F. Franco	J. Sierra

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

F. Franco
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
STANCHION DETAILS No. 2

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

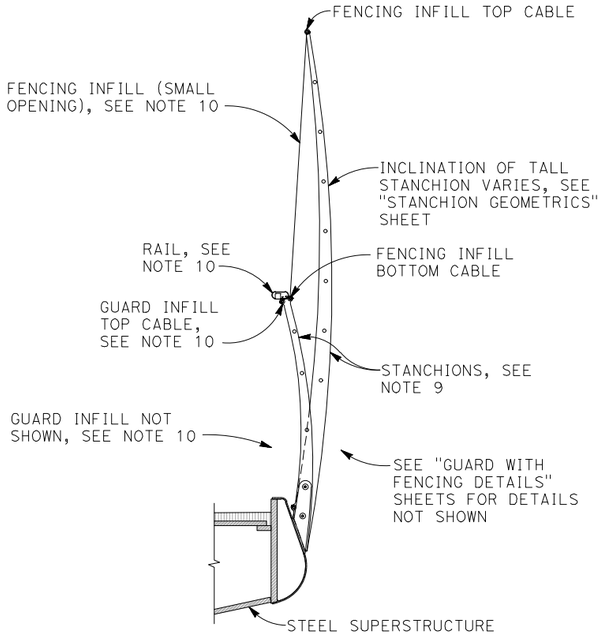
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
02-21-25				76	117

(20180575RB_S6)
20180575



DETAIL 1

3/4" = 1'-0"

NOTES:

1. This sheet accurate for segment of fencing system connected to forestay cables only.
2. Southern cables shown. Northern cables similar.
3. The Contractor must prepare a fencing system installation plan, including the complete construction sequence, equipment and means and methods required for construction of the fencing cable system, including tensioning of all fencing cables and installation of fencing infill. The fencing system installation plan, including calculations and drawings for each key stage and component, must be submitted to the Engineer for review. No fencing work must be performed prior to the approval of the fencing system installation plan by the Engineer.
4. Tension in fencing infill cables after installation of fencing system, complete in place, including tensioning of all fence infill cables and installation of fencing infill, must comply with:
   - Fencing Infill Top Cable: 4.0 kips maximum, 2.5 kips minimum
   - Fencing Infill Bottom Cable: 2.0 kips maximum, 1.0 kips minimum
   - Cross Bracing Cables (Upper): 4.3 kips maximum
   - Cross Bracing Cables (Lower): 4.6 kips maximum
5. The load imparted on the fencing infill top cable and fencing infill bottom cable by the fencing infill must not exceed 35 pounds per linear foot.
6. Do not install fencing infill before tensioning of fencing infill top cable.
7. Installation sequence of fencing system must not impart fencing infill cable tensioning loads onto the forestay cables. Tensioning of the top infill fencing cable must not deflect the forestay cables in the direction parallel to "EE" Line. After installation of fencing system, complete in place, including tensioning of all fencing cables and installation of fencing infill, secure the fencing infill connectors to provide secure connection of fencing cables to forestay cables.
8. Maximum deflection at top of stanchions after installation of fencing system, complete in place, measured parallel to "EE" Line, must not exceed 1/4 inch.
9. For stanchion details not shown, see "STANCHION DETAILS" sheets and "GUARD WITH FENCING DETAILS" sheets.
10. For details of fencing, fencing infill, guard infill, guard and fencing cables, cross bracing cables, and rail not shown, see "GUARD WITH FENCING DETAILS" sheets.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	182	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER — DATE

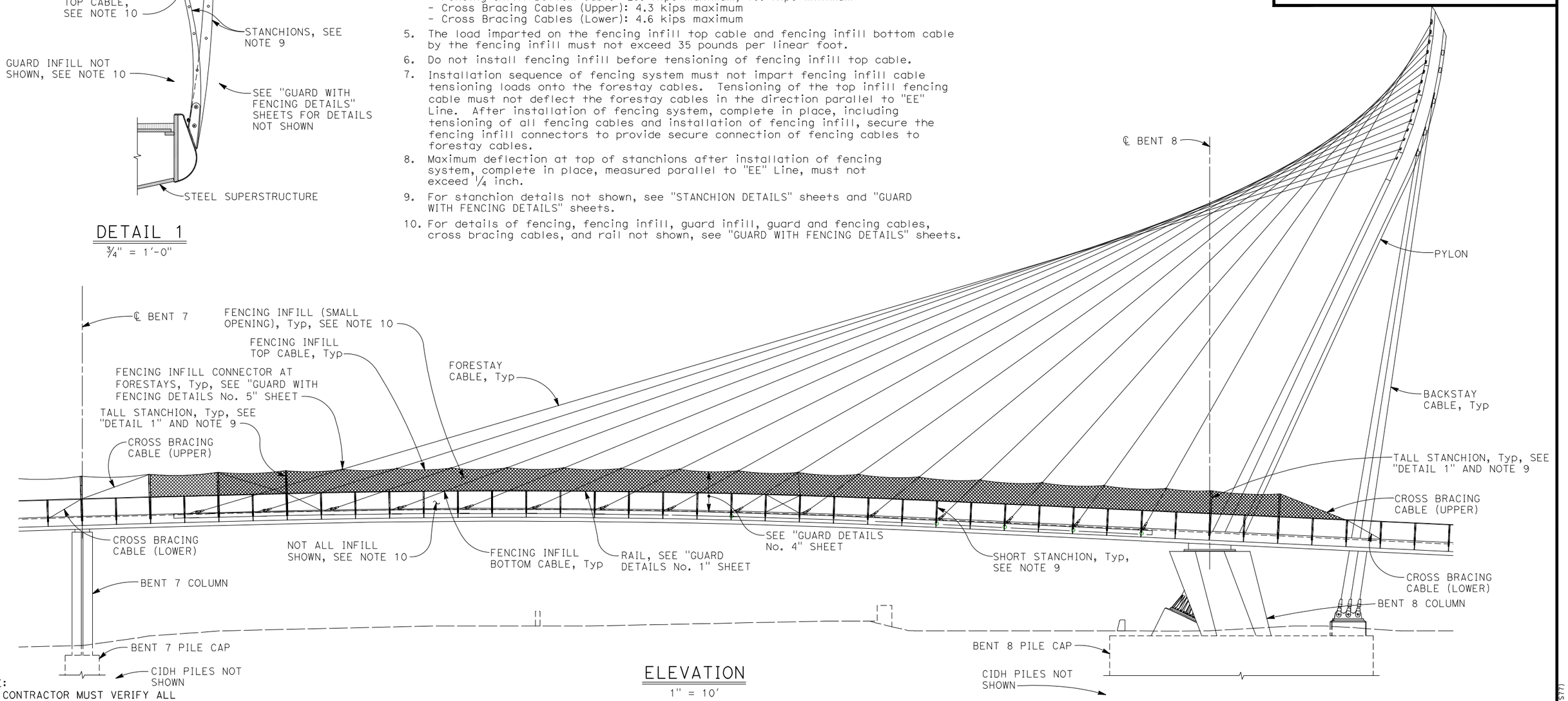
REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

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.

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126



ELEVATION

1" = 10'

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Rakesh Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	D. Rosellini	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
STAY CABLE FENCING DETAILS

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 5:15pm
FILE => 2018057SRB_S77.dwg USERNAME => SMH
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES: 6-28-24 | 10-4-24 | 2-21-25

SHEET 77 OF 117

2018057 (2018057SRB_S77)

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

GENERAL ERECTION NOTES

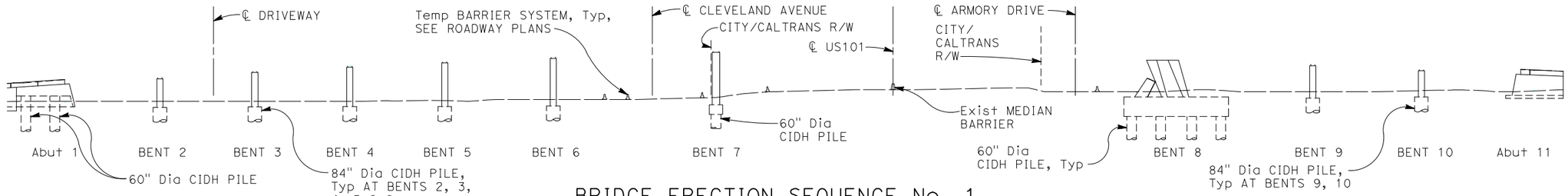
1. The items of work shown indicate a general sequence of Edwards Avenue Pedestrian Overcrossing work and does not necessarily indicate all work required.
2. The Contractor must prepare a construction sequence plan, including the complete construction sequence, equipment, scaffolding, and means and methods required for construction of the overcrossing. The construction sequence plan, including calculations and drawings for each key stage and component, must be submitted to the Engineer for review. No work must be performed prior to the approval of the construction sequence plan by the Engineer.
3. The extent of construction for each phase must not exceed the approved traffic control and detour requirements of the project.
4. The Contractor is responsible for the erection sequence in its entirety. The Contractor's bid must be based solely upon the erection sequence proposed by the Contractor.
5. The Contractor is responsible for ensuring that proper support and stability are maintained for the structure at all stages of construction, and must submit temporary support, bracing, falsework design, and other pertinent working drawings with supporting calculations for acceptance by the Engineer.
6. The final structure must conform to the lines, grades, and design dimensions shown on the plans.
7. For East Approach Walls and West Approach Walls, see "EDWARDS AVENUE POC APPROACH WALLS" plans.

BRIDGE ERECTION SEQUENCE No. 0

0.1 Remove or relocate existing utilities in conflict with construction. See CIVIL PLANS for details.

BRIDGE ERECTION SEQUENCE No. 1

WEST APPROACH STRUCTURE	PRINCIPAL SPAN STRUCTURE	EAST APPROACH STRUCTURE
1.1 Excavate soil and construct surcharge at West Approach Walls. Allow for settlement period. See Note 7.	1.1 Excavate soil and install Bent 7 & 8 CIDH piles.	1.1 Excavate soil and construct surcharge at Abut 11 and East Approach Walls. Allow for settlement period. See Note 7.
1.2 Construct Bent 2 to 6 CIDH piles.	1.2 Construct Bent 7 & 8 pile caps.	1.2 Construct Bent 9 & 10 CIDH piles.
1.3 Construct footings, walls, and structure backfill at West Approach Walls.	1.3 Construct Bent 7 column & Bent 8 column, pylon pedestal and backstay pedestals.	1.3 Construct footings, walls, and structure backfill at Abut 11 and East Approach Walls.
1.4 Construct Abut 1 CIDH piles.	1.4 Backfill Bent 7 & 8 pile caps.	1.4 Construct Bent 9 & 10 columns.
1.5 Construct Bent 2 to 6 columns and abutment cap at Abut 1.		1.5 Construct concrete slab at Abut 11 and East Approach Walls.
1.6 Construct concrete slab at West Approach Walls.		

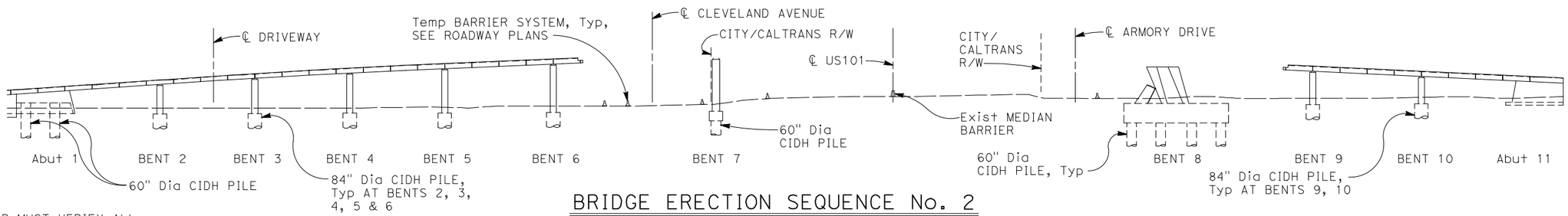


BRIDGE ERECTION SEQUENCE No. 1

1" = 30'

BRIDGE ERECTION SEQUENCE No. 2

WEST APPROACH STRUCTURE	PRINCIPAL SPAN STRUCTURE	EAST APPROACH STRUCTURE
2.1 Erect falsework.	2.1 No major items this stage.	2.1 Erect falsework.
2.2 Construct superstructure including steel seat assembly at Hinge 6A.		2.2 Construct superstructure including steel assembly at Hinge 8A.
2.3 Remove falsework at Spans 1 and 2.		



BRIDGE ERECTION SEQUENCE No. 2

1" = 30'

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	183	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 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.

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	A. Notaro	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
BRIDGE ERECTION SEQUENCE No. 1

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 5:16pm
FILE => 2018057SRB_S78.dwg USERNAME => SMH
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
6-10-22	1-10-23	6-28-24	10-4-24	78	117

2018057

2018057SRB_S78|

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

BRIDGE ERECTION SEQUENCE No. 3

WEST APPROACH STRUCTURE	PRINCIPAL SPAN STRUCTURE	EAST APPROACH STRUCTURE
3.1 No major items this stage.	3.1 Erect falsework for steel superstructure Segments 1 through 5.	3.1 No major items this stage.
	3.2 Erect steel box Segment 1.	
	3.3 Erect steel box Segment 5 over Cleveland Ave.	
	3.4 Erect steel box Segment 4 over US101 SB. Perform field bolting at splices.	
	3.5 Erect steel box Segment 3 (including TMDs) over US101 NB. Perform field bolting at splices.	
	3.6 Erect steel box Segment 2 over Armory Dr. Perform field bolting at splices.	
	3.7 Perform field welding at superstructure splices.	
	3.8 Install shear key assemblies at Hinges 6A & 8A. Position shear key assemblies for transverse alignment of concrete & steel superstructure frames.	
	3.9 Connect utilities and drain pipes at Bents 7 & 8 column/box connections.	
	3.10 Install steel deck plates at Bents 7 & 8 column/box connections.	
	3.11 Install non-shrink grout and tighten anchor bolts at Bents 7 & 8. See Note 1.	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	184	247

Daniel Rosellini 5/2/25
REGISTERED CIVIL ENGINEER DATE

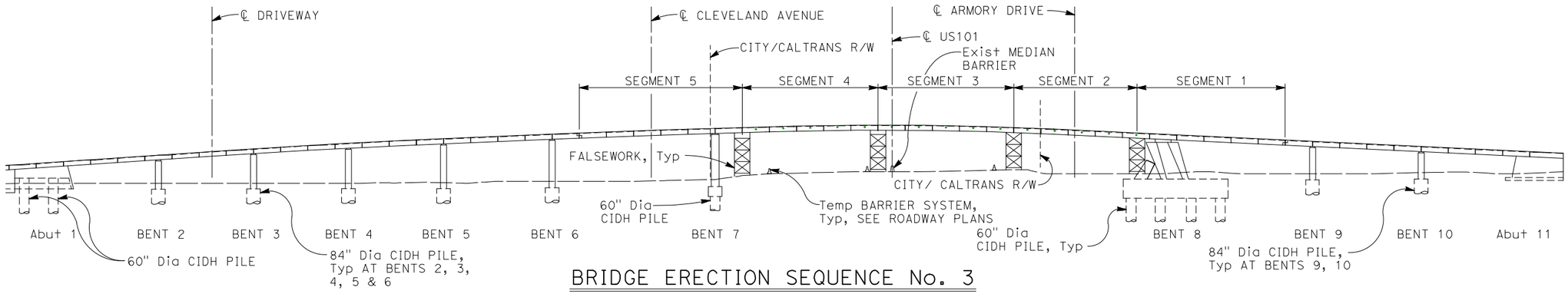
REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126



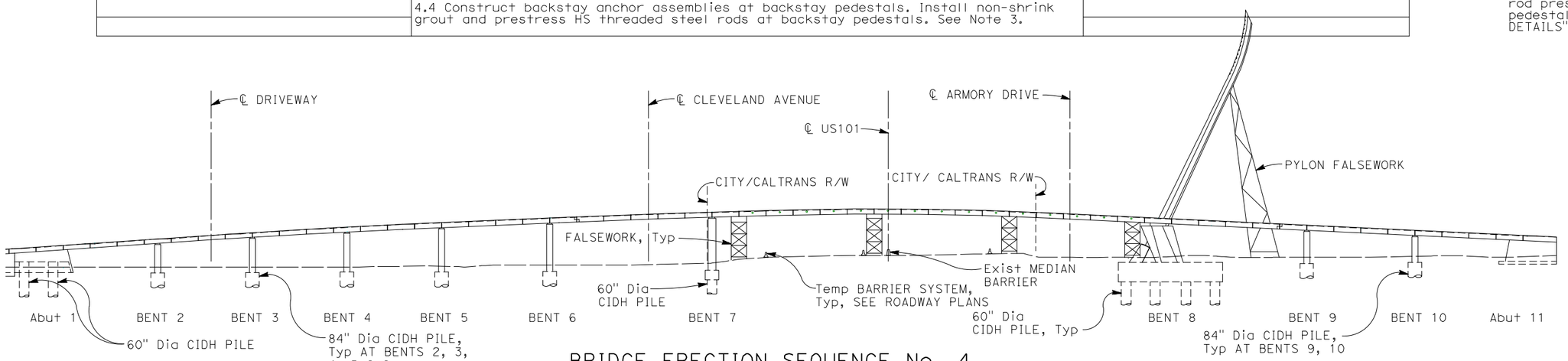
BRIDGE ERECTION SEQUENCE No. 3

1" = 30'

BRIDGE ERECTION SEQUENCE No. 4

WEST APPROACH STRUCTURE	PRINCIPAL SPAN STRUCTURE	EAST APPROACH STRUCTURE
4.1 No major items this stage.	4.1 Erect pylon falsework.	4.1 No major items this stage.
	4.2 Erect steel pylon.	
	4.3 Install non-shrink grout and tighten HS threaded steel rods at pylon pedestal. See Note 2.	
	4.4 Construct backstay anchor assemblies at backstay pedestals. Install non-shrink grout and prestress HS threaded steel rods at backstay pedestals. See Note 3.	

NOTES:
1. For non-shrink grout and anchor bolt tightening sequencing, see "COLUMN/BOX CONNECTION DETAILS" sheets.
2. For non-shrink grout and HS threaded steel rod tightening sequencing at pylon pedestal, see "PYLON PEDESTAL DETAILS" sheet.
3. For non-shrink grout and HS threaded steel rod prestressing details at backstay pedestals, see "BACKSTAY ANCHOR ASSEMBLY DETAILS" sheet.



BRIDGE ERECTION SEQUENCE No. 4

1" = 30'

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	A. Notaro	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
BRIDGE ERECTION SEQUENCE No. 2

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 5:16pm
FILE => 2018057SRB_S79.dwg USERNAME => SMH

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES			
5-10-22	1-10-23	5-28-24	10-4-24

SHEET 79 OF 117

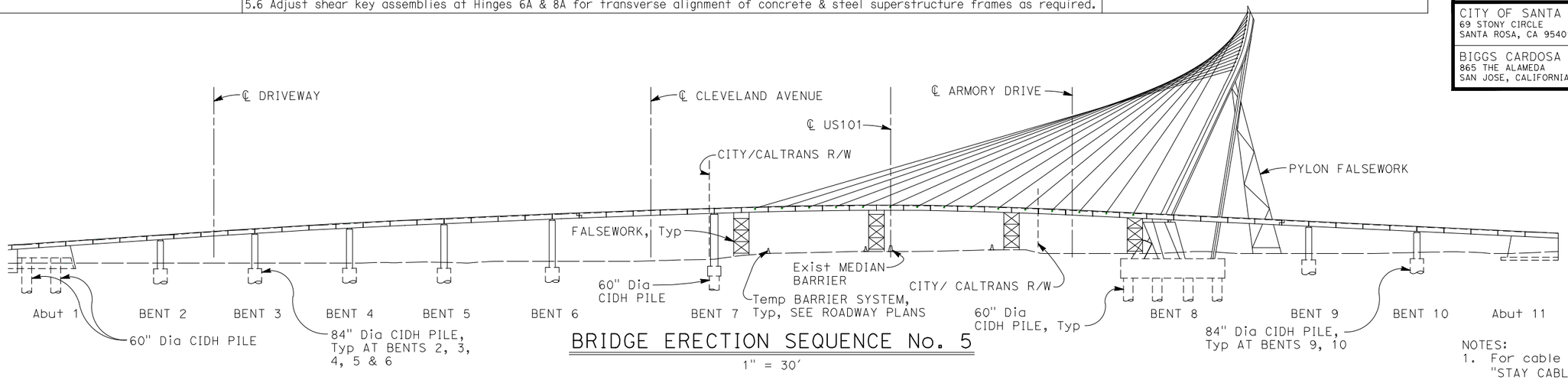
2018057

(2018057SRB_S79)

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

BRIDGE ERECTION SEQUENCE No. 5

WEST APPROACH STRUCTURE	PRINCIPAL SPAN STRUCTURE	EAST APPROACH STRUCTURE
5.1 Install cable restrainers at Abut 1.	5.1 Install stay cables, see Note 1.	5.1 No major items this stage.
	5.2 Release pylon falsework and longitudinal and transverse restraint at steel box falsework prior to backstay and forestay stressing operations.	
	5.3 Stress stay cables per the authorized stressing sequence, see Note 2.	
	5.4 Release vertical restraint at steel box falsework.	
	5.5 Remove pylon falsework.	
	5.6 Adjust shear key assemblies at Hinges 6A & 8A for transverse alignment of concrete & steel superstructure frames as required.	

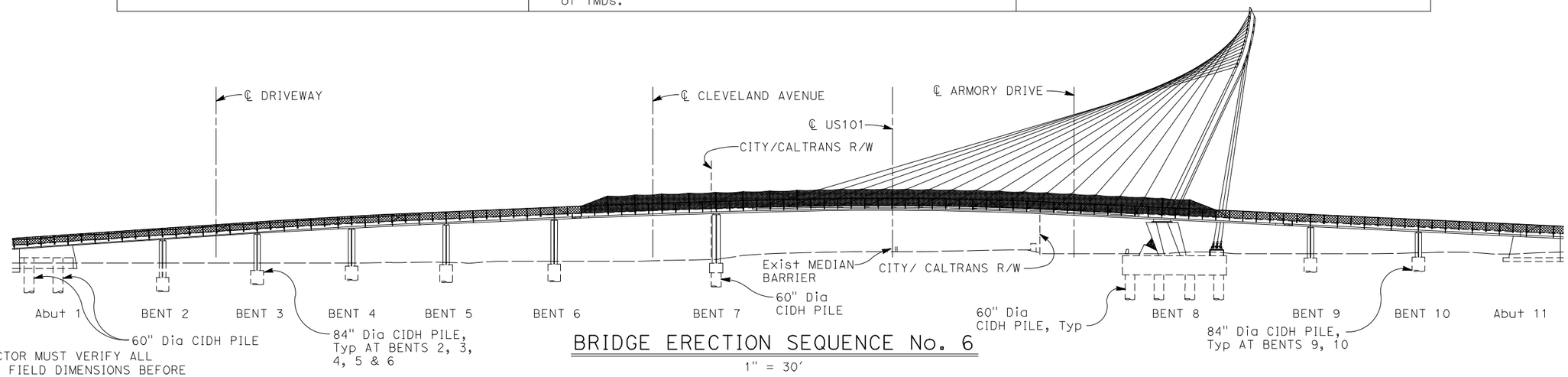


BRIDGE ERECTION SEQUENCE No. 5

1" = 30'

BRIDGE ERECTION SEQUENCE No. 6

WEST APPROACH STRUCTURE	PRINCIPAL SPAN STRUCTURE	EAST APPROACH STRUCTURE
6.1 Remove remaining falsework.	6.1 Remove steel box falsework.	6.1 Remove falsework.
6.2 Place polyester concrete overlay.	6.2 Place polyester concrete overlay.	6.2 Place polyester concrete overlay.
6.3 Install expansion joint and joint armor at Abut 1.	6.3 Install expansion joint, joint armor, and architectural elements at Hinges 6A & 8A.	6.3 Install expansion joint and joint armor at Abut 11.
6.4 Install bridge guard.	6.4 Install bridge guard and fencing.	6.4 Install bridge guard.
	6.5 Install stay cable spacer assemblies.	
	6.6 Perform final tuning and performance verification testing of TMDs.	



BRIDGE ERECTION SEQUENCE No. 6

1" = 30'

NOTES:
1. For cable installation forces, see "STAY CABLE DATA" sheet.
2. For cable stressing sequencing, see "STAY CABLE DATA" sheet.
3. For guard and fencing details, see "STANCHION DETAILS" sheets, "GUARD DETAILS" sheets, and "GUARD WITH FENCING DETAILS" sheets.

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	185	247

Daniel S Rosellini 5/2/25
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp. 3/31/26 CIVIL STATE OF CALIFORNIA

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

Robert M. Peo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	D. Rosellini	D. Devlin
DETAILS	A. Notaro	D. Devlin
QUANTITIES	A. Notaro	F. Franco

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Daniel S. Rosellini
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
BRIDGE ERECTION SEQUENCE No. 3

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 5:17pm
FILE => 2018057SRB_S80.dwg USERNAME => SMH
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES: 6-10-22 | 2-21-25 | 10-4-24

SHEET 80 OF 117

2018057 (2018057SRB_S80)

SLIDING BEARING TABLE

LOCATION	MAXIMUM VERTICAL LOAD(kips) (SEE NOTE 5)	MINIMUM VERTICAL LOAD(kips) (SEE NOTE 6)	MAXIMUM HORIZONTAL LOAD(kips) (SEE NOTE 7)	DESIGN ROTATION (Radians)	CONCAVE PLATE					CONVEX PLATE			MASONRY PLATE			SOLE PLATE			VERTICAL CLEARANCE	ASSEMBLY HEIGHT
					WIDTH / LENGTH	FLAT PTFE AREA	DIAMETER			SPHERICAL RADIUS	DIAMETER	MAXIMUM THICKNESS	WIDTH	LENGTH	THICKNESS	WIDTH Wsp (SEE NOTE 13)	LENGTH	THICKNESS		
					L_{cp}	A_{PTFE}	D_m	T_1	T_2	R	C_m	H_{act}	W_{mp}	L_{mp}	T_{mp}		L_{sp}	T_{sp}	C(min)	A_h
2 HINGE 6A	73	51	5.2	0.035	6.375	16.00	5.25	0.75	1.375	11.25	6.125	1.25	7.5	7.5	0.75	10.0	28.0	0.75	0.29	3.563
HINGE 8A	52	35	4.5	0.035	5.375	12.25	4.25	0.75	1.25	9.00	4.875	1.25	6.0	6.0	0.75	10.0	24.0	0.75	0.26	3.563

DIST.	COUNTY	ROUTE	MILE POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Son	101	21.5	186	247

Daniel Rosellini 5/2/25
REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

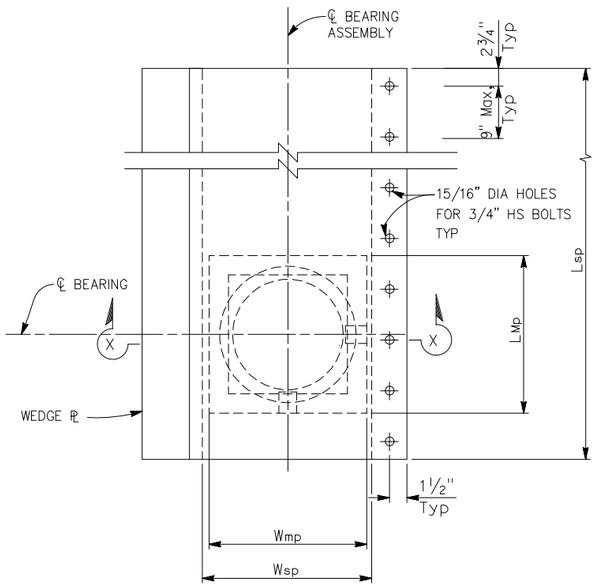
PLANS APPROVAL DATE

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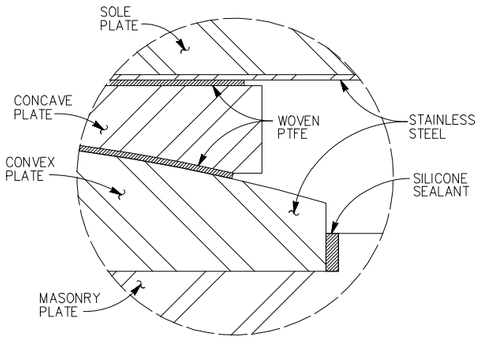
The Registered Civil Engineer for the project is responsible for the selection and proper application of the component design and any modifications shown.

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

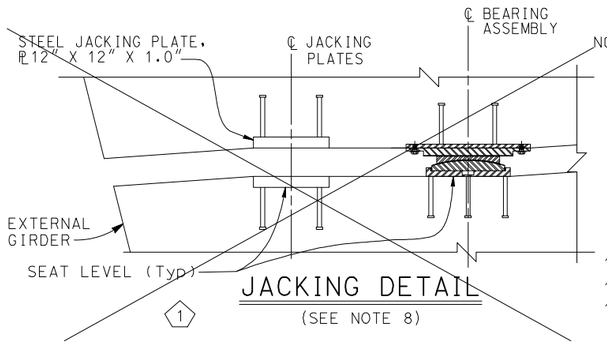
BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126



3 PLAN

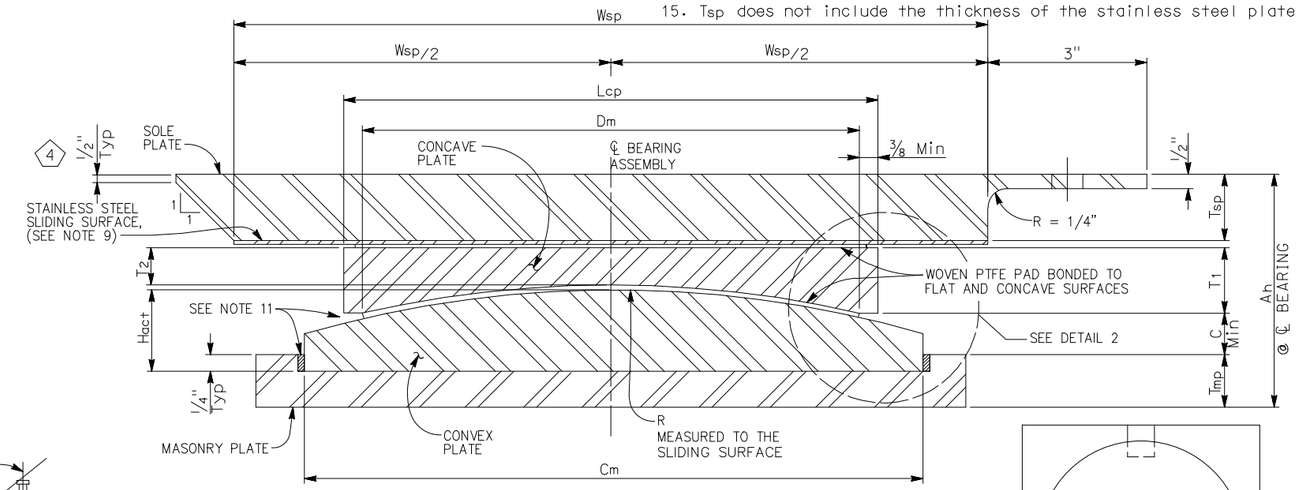


DETAIL 2

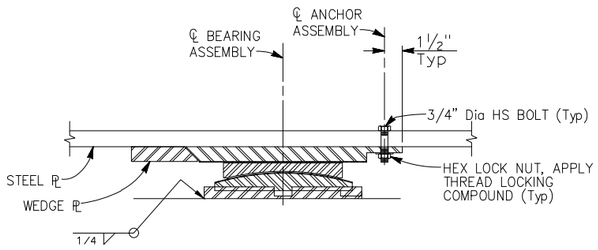


1 JACKING DETAIL
(SEE NOTE 8)

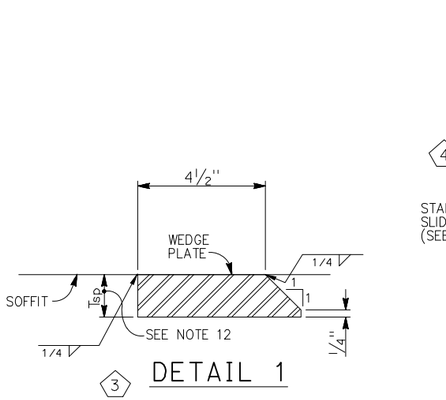
NOTES:
1. All dimensions in inches
2. H_{act} includes stainless steel
3. A_h includes PTFE, substratum and stainless steel
4. R is to sliding surface
5. Maximum unfactored vertical load per bearing
6. Minimum unfactored vertical load per bearing
7. Maximum unfactored horizontal load per bearing
8. Not all shear studs and convex PL removal notches shown for clarity
9. 10 GA stainless steel full perimeter fillet weld to carbon steel
10. Notch in masonry plate for convex plate removal
11. Fill gap around convex plate with silicone sealant
12. Wedge plate thickness equal to Tsp
13. Total sole plate width is equal to Wsp + Tsp + 3"
14. Bearing must be set level.
15. Tsp does not include the thickness of the stainless steel plate



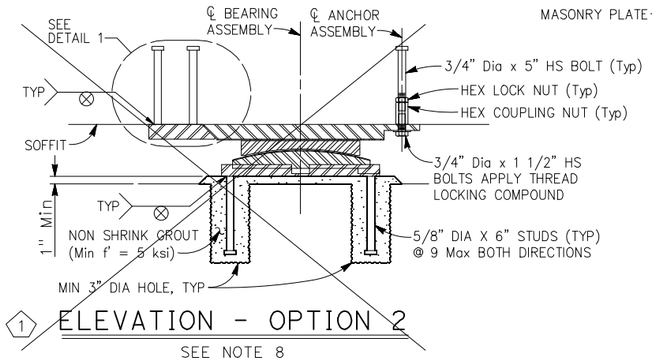
SECTION X-X
(SEE NOTE 8)



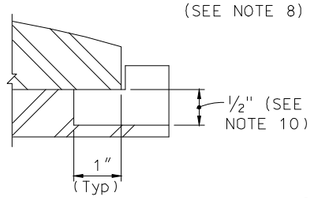
3 ELEVATION
SEE NOTE 8



3 DETAIL 1

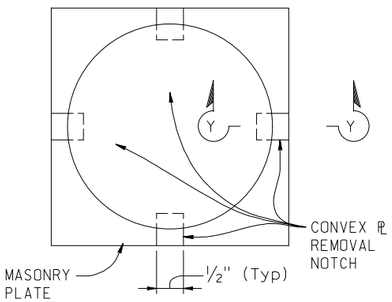


1 ELEVATION - OPTION 2
SEE NOTE 8



SECTION Y-Y
(SEE NOTE 8)

SPECIAL DETAILS
NO SCALE



MASONRY PLATE PLAN
(SEE NOTE 8)

BRIDGE STANDARD DETAILS		
xs9-010	April 2020	*The components of the Bridge Standard Details have been prepared under the responsible charge of the Technical Owner, a registered civil engineer in the State of California*
FILE NO.	APPROVAL DATE	

MODIFICATIONS SHOWN:
1 DETAIL REMOVED
2 INFORMATION ADDED
3 MODIFIED DETAIL
4 MODIFIED DIMENSION

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO.	20-0307
POST MILE	21.5

EDWARDS AVENUE POC
PTFE SPHERICAL BEARING DETAILS

Refer to: http://www.dot.ca.gov/hq/esc/techpubs/manual/bridgemanuals/bridge-standard-details-sheets/index.html

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 5:18pm
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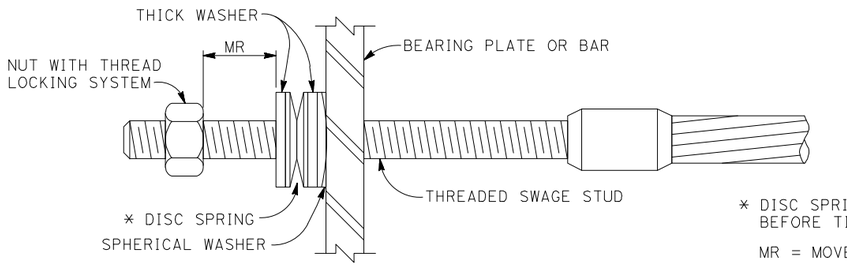
UNIT:
PROJECT NUMBER & PHASE: 04130002131 CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES		
6-10-22	1-10-23	6-28-24

SHEET	OF
81	117

2018057SRB_S81)

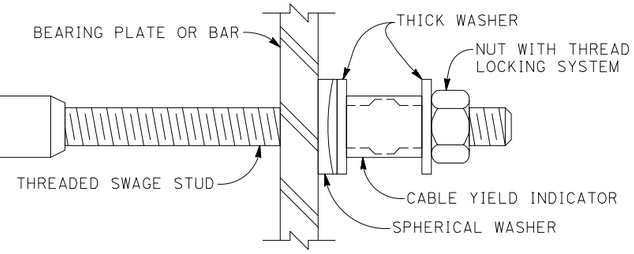


* DISC SPRING SHOWN BEFORE TIGHTENING

MR = MOVEMENT RATING

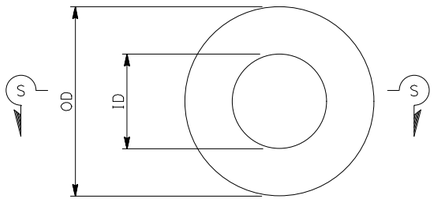
DISC SPRING HARDWARE

6" = 1'-0"

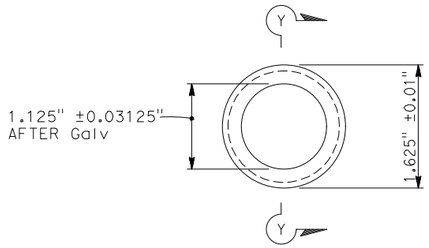


CABLE YIELD INDICATOR HARDWARE

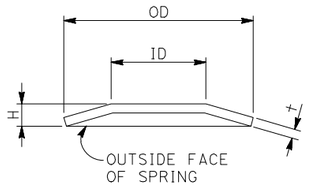
6" = 1'-0"



END VIEW

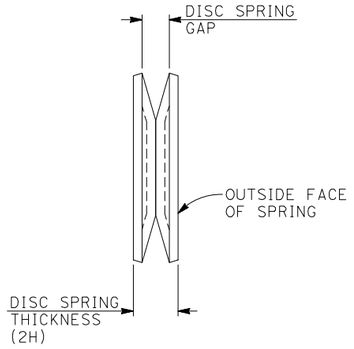


END VIEW



SECTION S-S

SINGLE DISC

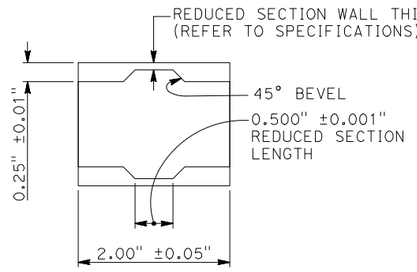


ASSEMBLY SPRING

BEFORE NUT TIGHTENING

DISC SPRING

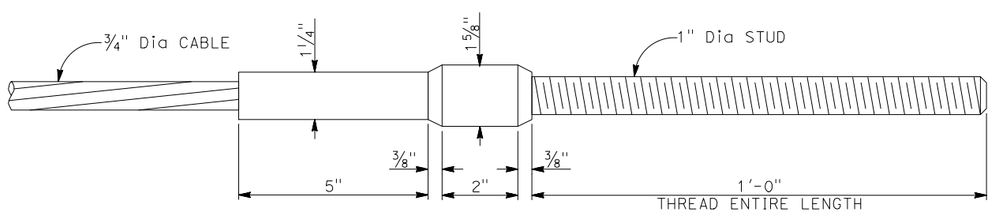
1" = 1"



SECTION Y-Y

CABLE YIELD INDICATOR

1" = 1"



CABLE END SWAGE STUD DETAIL

6" = 1'-0"

Notes:

1. Place the Cable Yield Indicator hardware on the superstructure side of the Hinge. Place the Disc Spring hardware on the Abutment cap side. (1)
2. All exposed, non-painted hardware must be galvanized. Dimensions shown are before galvanizing except as noted.
3. Nuts must not be set until after the completion of prestressing for CIP prestressed bridges.
4. (1) ~~In corrosive environments, add a Locking Nut instead of the Thead Locking System.~~

RESTRAINER UNIT INSTALLATION PROCEDURE

For Typical Straight Restrainers, Girder to Opposite Girder Alignment:

1. Install Spherical Washers, Thick Washers, Cable Yield Indicator and Nut with Thread Locking System on the superstructure side. (1)
2. Install Spherical Washers, Thick Washers, Disc Spring and Nut on the abutment cap side. (1)
3. Tighten the nuts on the abutment cap side of restrainer units until the Disc Springs collapse and there is no gap remaining between the discs. (1)
4. Place thread locking system on the threaded stud and back off the nut from the Disc Spring a distance equal to the maximum additional amount that the hinge is expected to open, relative to existing ambient conditions, for the Movement Rating (MR) as shown on the Structure plans.

DISC SPRING AND WASHER DIMENSIONS

RESTRAINER LENGTH	DISC SPRING					SPHERICAL WASHER			THICK WASHER		
L (ft)	ID	OD	t	H	COLOR CODE	ID	OD	NOMINAL THICKNESS	ID	OD	t (min)
00.0 - 25.0	1.125	2.00	0.065	0.130	WHITE	1.125	2.00	0.75	1.125	2.00	0.25
25.1 - 31.9	1.125	2.00	0.084	0.136	RED	1.125	2.00	0.75	1.125	2.00	0.25
32.0 - 37.9	1.125	2.00	0.097	0.145	BLUE	1.125	2.00	0.75	1.125	2.00	0.25
37.9 < L	1.125	2.50	0.120	0.180	YELLOW	1.125	2.50	0.75	1.125	2.50	0.25

Restrainer Length (L) :
Use effective cable length, measured from the outer faces of Bearing Plates or Bar.
See Bridge detail sheets for approximate length.

Use ASTM F436, Standard Specification for Hardened Steel Washers for all OD and ID dimensions for washers and dics springs.

Dimensions are inches unless otherwise noted.

SPECIAL DETAILS

DIST.	COUNTY	ROUTE	MILE POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Son	101	21.5	187	247

Daniel Rosellini 5/2/25
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL S ROSELLINI No. C79105 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

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The Registered Civil Engineer for the project is responsible for the selection and proper application of the component design and any modifications shown.

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69 STONY CIRCLE
SANTA ROSA, CA 95401

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

BRIDGE STANDARD DETAILS

xs7-090 (FILE NO.) | October 2015 (APPROVAL DATE)

The components of the Bridge Standard Details have been prepared under the responsible charge of the Technical Owner, a registered civil engineer in the State of California

MODIFICATIONS SHOWN:
(1) MODIFIED NOTE

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO. 20-0307
POST MILE 21.5

EDWARDS AVENUE POC

CABLE RESTRAINER HARDWARE DETAILS

Refer to: http://www.dot.ca.gov/hq/esc/techpubs/manual/bridgemanuals/bridge-standard-detail-sheets/index.html

DATE PLOTTED => May 01, 2025 TIME PLOTTED => 5:18pm
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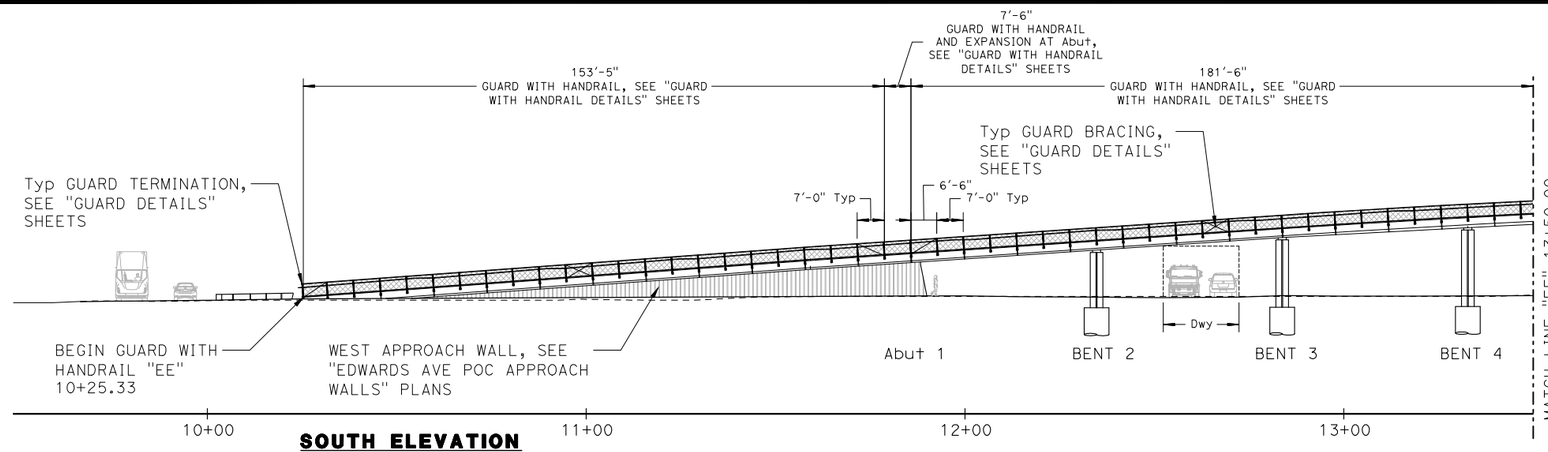
UNIT:
PROJECT NUMBER & PHASE: 04130002131 CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES

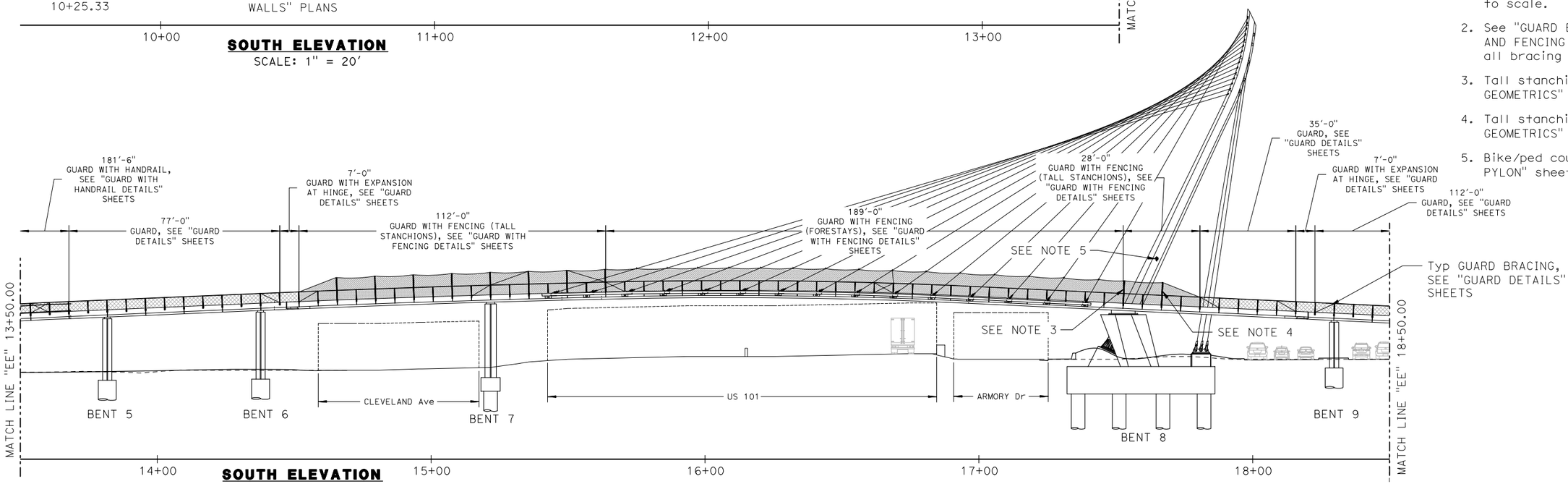
REVISION DATES: 6-18-22 | 1-18-23 | 6-28-24

SHEET 82 OF 117

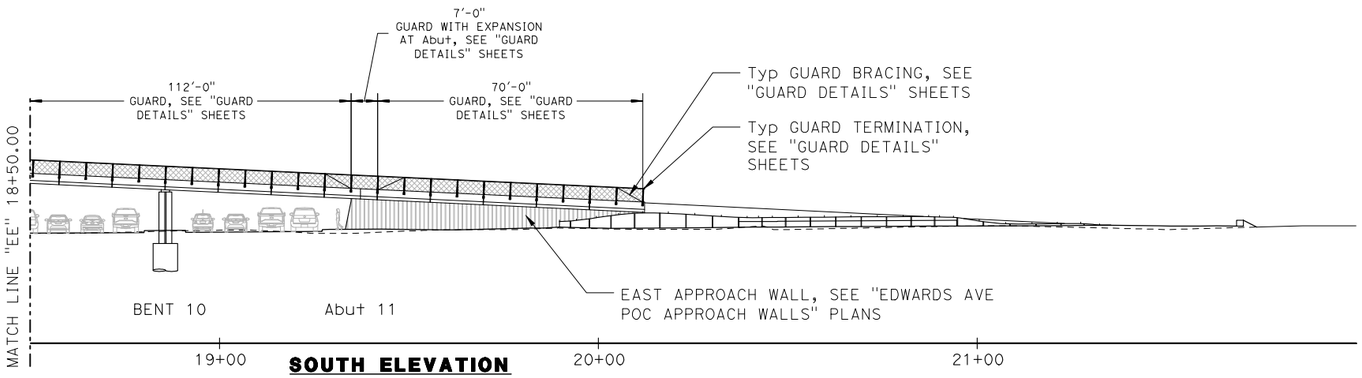
2018057 (2018057SRB_S82)



SOUTH ELEVATION
SCALE: 1" = 20'



SOUTH ELEVATION
SCALE: 1" = 20'



SOUTH ELEVATION
SCALE: 1" = 20'

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	188	247

5-2-25
LICENSED ARCHITECT — DATE

LICENSED ARCHITECT — STEVEN GROVER No. C28814 Exp. 1/31/27 — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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STEVEN GROVER & ASSOCIATES
800 HEINZ AVE, STUDIO 11
BERKELEY, CA 94710

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

NOTES:

1. Infill hatch is representative and not to scale.
2. See "GUARD BRACING SCHEDULE" on "GUARD AND FENCING LAYOUT No. 3" sheet for all bracing start and end stations.
3. Tall stanchion "A", see "STANCHION GEOMETRICS" sheet
4. Tall stanchion "B", see "STANCHION GEOMETRICS" sheet
5. Bike/ped counter, see "Arch DETAILS - PYLON" sheets

GENERAL NOTES:

1. Design complies with Caltrans Highway Design Manual, Seventh Edition, and Caltrans Design Information Bulletin 82-06, "Pedestrian Accessibility Guidelines for Highway Projects," and references AASHTO Guide for the Development of Bicycle Facilities, Fourth Edition.
2. Member sizes and weld sizes are per project structural engineers.

ARCHITECTURAL TERMINOLOGY:

1. Short stanchion - vertical members used to support guard
2. Tall stanchion - vertical members used to support the fencing not supported by forestays
3. Large opening infill - used where the project does not cross roadways, 2" ø max opening
4. Small opening infill- used where the project crosses over roadways, 1" ø max opening
5. Handrail - provided adjacent to ada compliant west approach ramps
6. Rail - the continuous longitudinal element on the top of the guard
7. Guard - assembly composed of short stanchions, rail, and large opening infill
8. Fencing - assembly composed of guard, tall stanchions, and small opening infill

Katherine Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Darling	S. Grover
DETAILS	J. Darling	S. Grover
QUANTITIES	J. Darling	O. Tsai

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

STEVEN GROVER
PROJECT ARCHITECT

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
GUARD AND FENCING LAYOUT No. 1

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => Dec 20, 2024 TIME PLOTTED => 5:00pm
FILE => SR_101_ARCH Publish Set.dwg USERNAME => SGA

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131

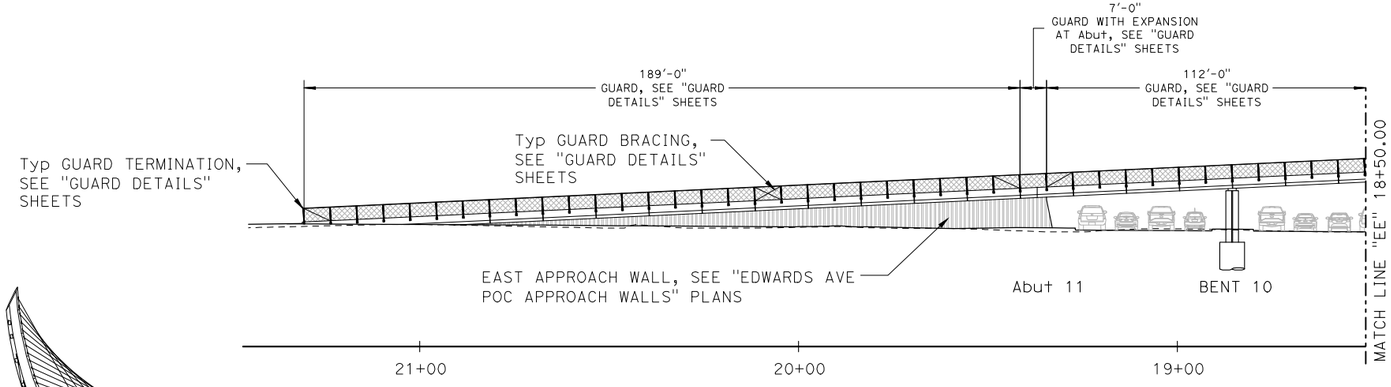
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

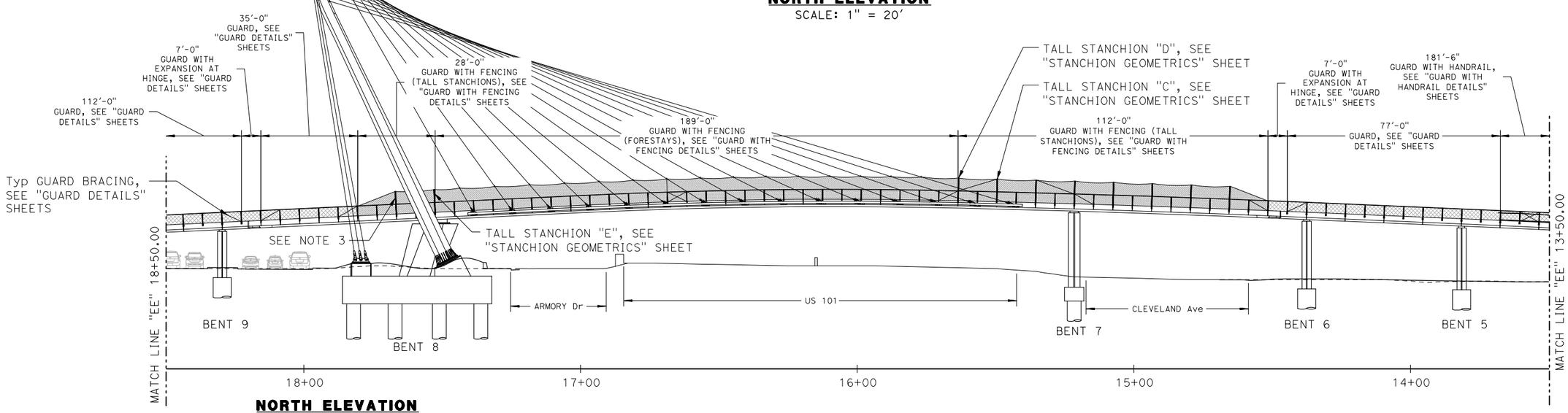
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6-10-22		2-21-25	5-2-25	83	117

NOTES:

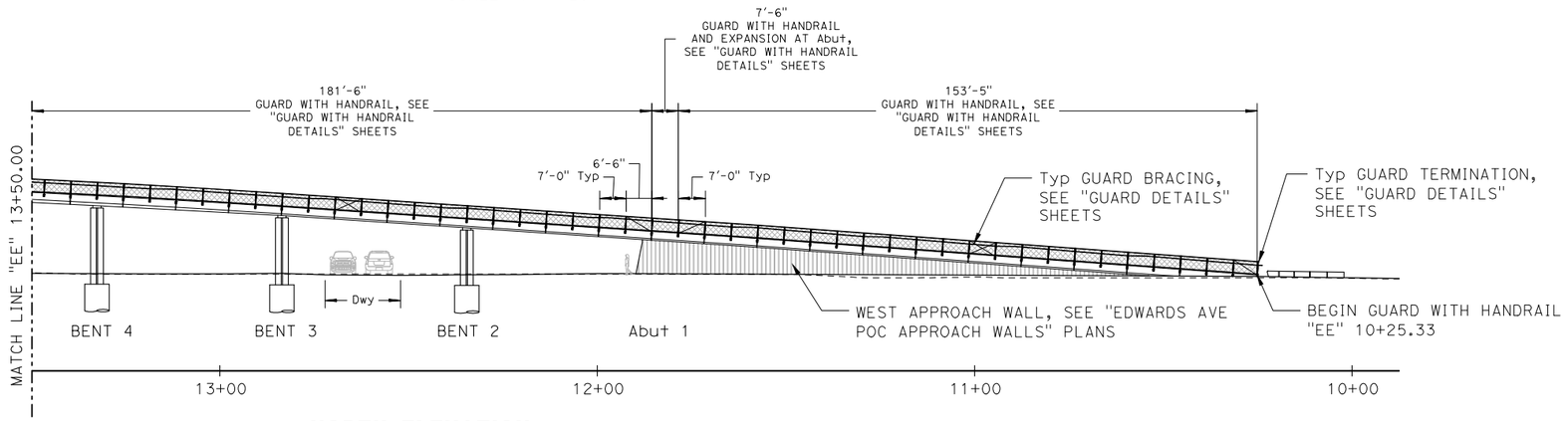
1. Infill hatch is representative and not to scale.
2. See "GUARD BRACING SCHEDULE" on "GUARD AND FENCING LAYOUT No. 3" sheet for all bracing start and end stations.
3. Tall stanchion "F", see "STANCHION GEOMETRICS" sheet



NORTH ELEVATION
SCALE: 1" = 20'



NORTH ELEVATION
SCALE: 1" = 20'



NORTH ELEVATION
SCALE: 1" = 20'

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	189	247

5-2-25
LICENSED ARCHITECT — DATE

LICENSED ARCHITECT — STEVEN GROVER No. C28814 Exp. 1/31/27 — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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STEVEN GROVER & ASSOCIATES
800 HEINZ AVE, STUDIO 11
BERKELEY, CA 94710

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Darling	S. Grover
DETAILS	J. Darling	S. Grover
QUANTITIES	J. Darling	O. Tsai

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

STEVEN GROVER
PROJECT ARCHITECT

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
GUARD AND FENCING LAYOUT No. 2

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => Dec 20, 2024 TIME PLOTTED => 5:00pm
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
6-14-22		2-21-25	5-2-25	84	117

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	190	247

5-2-25
LICENSED ARCHITECT — DATE

LICENSED ARCHITECT
STEVEN GROVER
No. C28814
Exp. 1/31/27
STATE OF CALIFORNIA

PLANS APPROVAL DATE

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STEVEN GROVER & ASSOCIATES
800 HEINZ AVE, STUDIO 11
BERKELEY, CA 94710

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

GUARD, FENCING, AND HANDRAIL SCHEDULE

ITEM	START Sta	END Sta	LENGTH (FT)	INFILL OPENING
NORTH				
GUARD WITH HANDRAIL	10+25.33	11+78.75	153.42	LARGE
GUARD WITH HANDRAIL AND EXPANSION	11+78.75	11+86.25	7.5	LARGE
GUARD WITH HANDRAIL	11+86.25	13+67.75	181.5	LARGE
GUARD	13+67.75	14+44.75	77	LARGE
GUARD WITH EXPANSION	14+44.75	14+51.75	7	LARGE
GUARD WITH FENCING (TALL STANCHIONS)	14+51.75	15+63.75	112	SMALL
GUARD WITH FENCING (FORESTAYS)	15+63.75	17+52.75	189	SMALL
GUARD WITH FENCING (TALL STANCHIONS)	17+52.75	17+80.75	28	SMALL
GUARD	17+80.75	18+15.75	35	LARGE
GUARD WITH EXPANSION	18+15.75	18+22.75	7	LARGE
GUARD	18+22.75	19+34.75	112	LARGE
GUARD WITH EXPANSION	19+34.75	19+41.75	7	LARGE
GUARD	19+41.75	20+11.75	70	LARGE
SOUTH				
GUARD WITH HANDRAIL	10+25.33	11+78.75	153.42	LARGE
GUARD WITH HANDRAIL AND EXPANSION	11+78.75	11+86.25	7.5	LARGE
GUARD WITH HANDRAIL	11+86.25	13+67.75	181.5	LARGE
GUARD	13+67.75	14+44.75	77	LARGE
GUARD WITH EXPANSION	14+44.75	14+51.75	7	LARGE
GUARD WITH FENCING (TALL STANCHIONS)	14+51.75	15+63.75	112	SMALL
GUARD WITH FENCING (FORESTAYS)	15+63.75	17+52.75	189	SMALL
GUARD WITH FENCING (TALL STANCHIONS)	17+52.75	17+80.75	28	SMALL
GUARD	17+80.75	18+15.75	35	LARGE
GUARD WITH EXPANSION	18+15.75	18+22.75	7	LARGE
GUARD	18+22.75	19+34.75	112	LARGE
GUARD WITH EXPANSION	19+34.75	19+41.75	7	LARGE
GUARD	19+41.75	21+30.75	189	LARGE

NOTES:
1. See "GUARD DETAILS" sheets for details of small opening infill.
2. See "GUARD WITH FENCING DETAILS" sheets for details of large opening infill.
3. For "GUARD" AND "GUARD WITH EXPANSION", see "GUARD DETAILS" sheets.
4. For "GUARD WITH HANDRAIL" and "GUARD WITH HANDRAIL AND EXPANSION", see "GUARD WITH HANDRAIL DETAILS" sheets.
5. For "GUARD WITH FENCING (TALL STANCHIONS)" and "GUARD WITH FENCING (FORESTAYS)", see "GUARD WITH FENCING DETAILS" sheets.

GUARD AND FENCING INFILL SCHEDULE

INFILL #	INFILL OPENING	START Sta	END Sta	LENGTH (FT)	AREA (SF)
NORTH GUARD					
NG1	LARGE	10+25.33	11+01.75	76.42	277
NG2	LARGE	11+01.75	11+78.75	77	279
NG3	LARGE	11+78.75	11+86.25	7.5	27
NG4	LARGE	11+86.25	12+69.75	83.5	302
NG5	LARGE	12+69.75	13+53.75	84	304
NG6	LARGE	13+53.75	14+44.75	91	329
NG7	LARGE	14+44.75	14+51.75	7	25
NG8	SMALL	14+51.75	15+63.75	112	405
NG9	SMALL	15+63.75	16+68.75	105	380
NG10	SMALL	16+68.75	17+80.75	112	405
NG11	LARGE	17+80.75	18+15.75	35	127
NG12	LARGE	18+15.75	18+22.75	7	25
NG13	LARGE	18+22.75	19+34.75	112	405
NG14	LARGE	19+34.75	19+41.75	7	25
NG15	LARGE	19+41.75	20+11.75	70	253
NG16	LARGE	20+11.75	21+30.75	119	431
SOUTH GUARD					
SG1	LARGE	10+25.33	11+01.75	76.42	277
SG2	LARGE	11+01.75	11+78.75	77	279
SG3	LARGE	11+78.75	11+86.25	7.5	27
SG4	LARGE	11+86.25	12+69.75	83.5	302
SG5	LARGE	12+69.75	13+53.75	84	304
SG6	LARGE	13+53.75	14+44.75	91	329
SG7	LARGE	14+44.75	14+51.75	7	25
SG8	SMALL	14+51.75	15+63.75	112	405
SG9	SMALL	15+63.75	16+68.75	105	380
SG10	SMALL	16+68.75	17+80.75	112	405
SG11	LARGE	17+80.75	18+15.75	35	127
SG12	LARGE	18+15.75	18+22.75	7	25
SG13	LARGE	18+22.75	19+34.75	112	405
SG14	LARGE	19+34.75	19+41.75	7	25
SG15	LARGE	19+41.75	20+11.75	70	253
NORTH FENCE					
NF1	SMALL	14+51.75	15+63.75	112	536
NF2	SMALL	15+63.75	16+68.75	105	502
NF3	SMALL	16+68.75	17+80.75	112	536
SOUTH FENCE					
SF1	SMALL	14+51.75	15+63.75	112	536
SF2	SMALL	15+63.75	16+68.75	105	502
SF3	SMALL	16+68.75	17+80.75	112	536

NOTES:
1. See "GUARD DETAILS" sheets for details of small opening infill.
2. See "GUARD WITH FENCING DETAILS" sheets for details of large opening infill.
3. G = guard infill between top of curb and bottom of rail.
4. F = fencing infill above guard.

GUARD BRACING SCHEDULE

START Sta	END Sta	COMMENTS
GUARD		
10+25.33	10+31.75	SINGLE
10+94.75	11+01.75	DOUBLE
11+71.75	11+78.75	SINGLE
11+86.25	11+92.75	SINGLE
12+62.75	12+69.75	DOUBLE
13+53.75	13+60.75	DOUBLE
14+37.75	14+44.75	SINGLE
14+51.75	14+58.75	SINGLE
15+28.75	15+35.75	DOUBLE
15+77.75	15+84.75	DOUBLE
16+61.75	16+68.75	SINGLE
17+80.75	17+87.75	SINGLE
18+08.75	18+15.75	SINGLE
18+22.75	18+29.75	SINGLE
19+27.75	19+34.75	SINGLE
19+41.75	19+48.75	DOUBLE ON NORTH, SINGLE ON SOUTH
20+04.75	20+11.75	SINGLE
21+23.75	21+30.75	SINGLE
FENCE		
14+51.75	14+65.75	SINGLE
15+35.75	15+49.75	SINGLE
15+63.75	15+77.75	SINGLE
FS9S and FS9N	16+68.75	SINGLE
17+66.75	17+80.75	SINGLE

NOTES:
1. Bracing occurs symmetrically on both the north and south side of the overcrossing unless otherwise noted.
2. See "GUARD DETAILS" sheets for bracing details.
3. "SINGLE" indicates bracing in one direction, see "GUARD AND FENCING LAYOUT" sheets.
4. "DOUBLE" indicates bracing in two directions, see "GUARD AND FENCING LAYOUT" sheets.
5. See "STAY CABLE LAYOUT" sheets for FS9N and FS9S.

Rakesh Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Darling	S. Grover
DETAILS	J. Darling	S. Grover
QUANTITIES	J. Darling	O. Tsai

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

STEVEN GROVER
PROJECT ARCHITECT

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
GUARD AND FENCING LAYOUT NO. 3

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

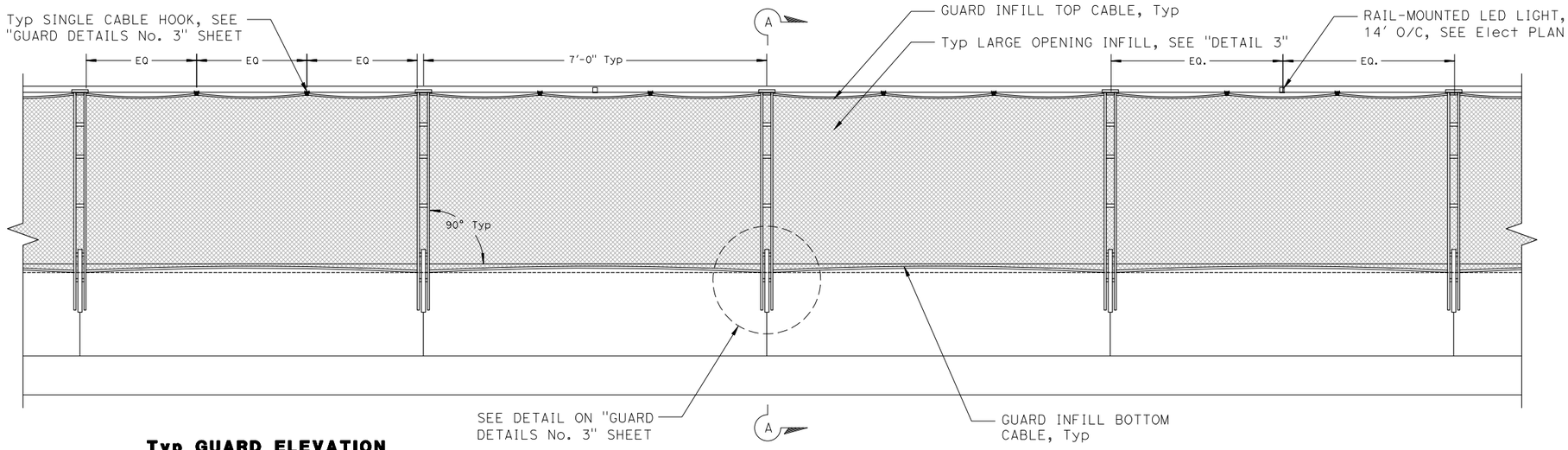
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

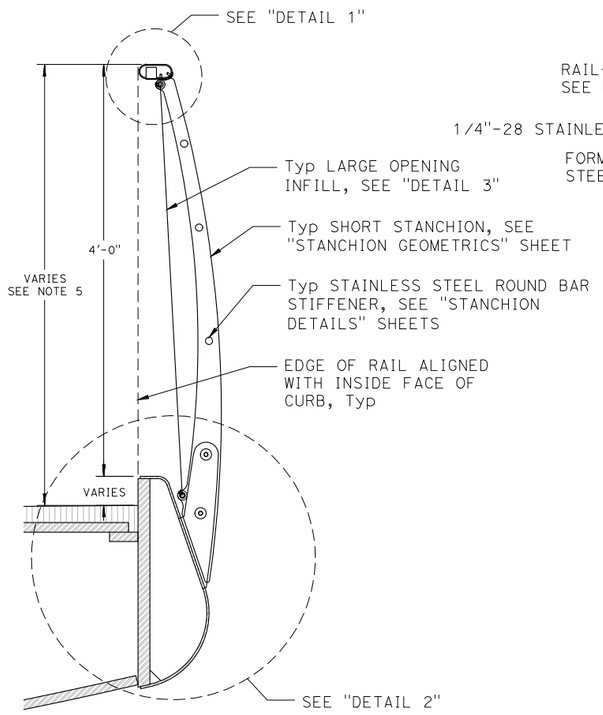
PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

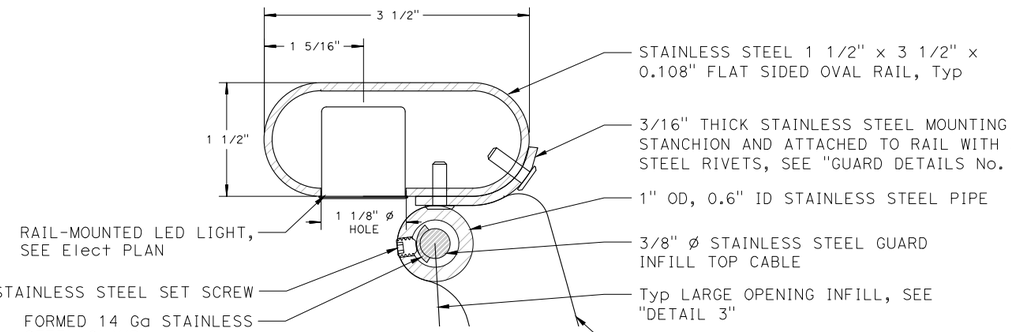
REVISION DATES				SHEET	OF
6-16-22		2-21-25	5-2-25	85	117



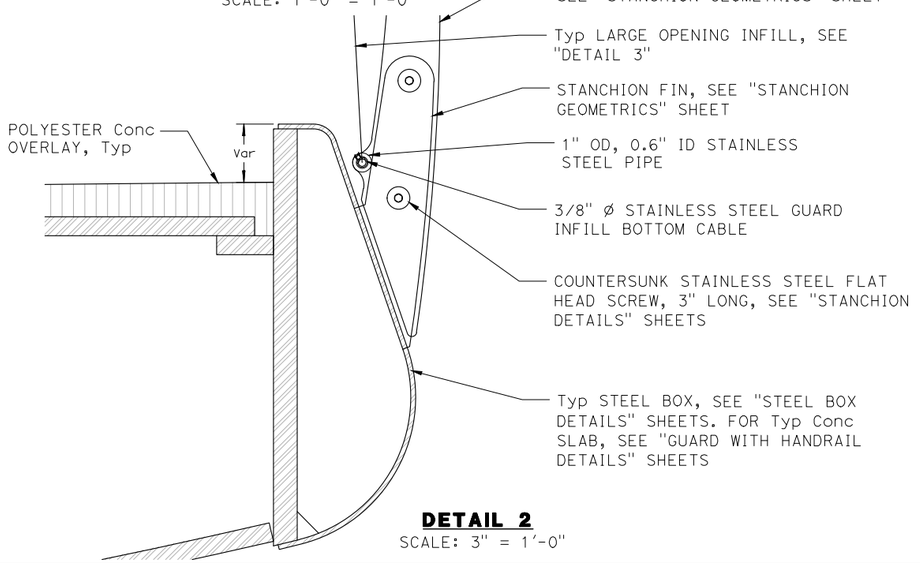
Typ GUARD ELEVATION
SCALE: 3/4" = 1'-0"



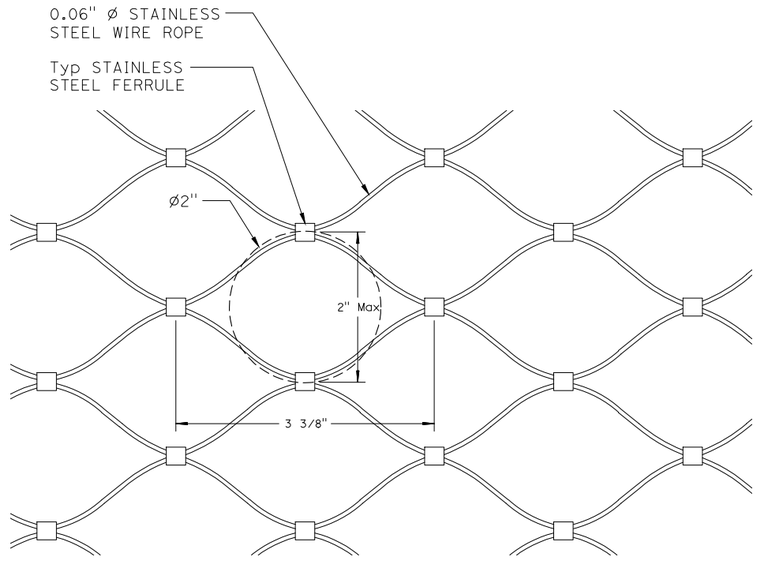
SECTION A-A
SCALE: 1 1/2" = 1'-0"



DETAIL 1
SCALE: 1'-0" = 1'-0"



DETAIL 2
SCALE: 3" = 1'-0"



DETAIL 3
LARGE OPENING INFILL
SCALE: 1'-0" = 1'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	191	247

LICENSED ARCHITECT — 5-2-25 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.

LICENSED ARCHITECT — STEVEN GROVER No. C28814 Exp. 1/31/27 — STATE OF CALIFORNIA

STEVEN GROVER & ASSOCIATES
800 HEINZ AVE, STUDIO 11
BERKELEY, CA 94710

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

NOTES:

1. Gaps and openings in guard must not allow passage of 2" ø sphere.
2. Weld and grind smooth rail seams on site so rails are visually continuous.
3. Where infill must be cut, neatly finish mesh fabric and secure cut ends within ferrules per manufacturer's instructions.
4. Weld and grind smooth joints between lengths of rail.
5. The dimension along the north edge of traveled way varies from 4'-0" to 4'-3 1/2". The dimension along the south edge of traveled way varies from 4'-1" to 4'-4 1/2".

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Darling	S. Grover
DETAILS	J. Darling	S. Grover
QUANTITIES	J. Darling	O. Tsai

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

STEVEN GROVER
PROJECT ARCHITECT

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
GUARD DETAILS No. 1

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

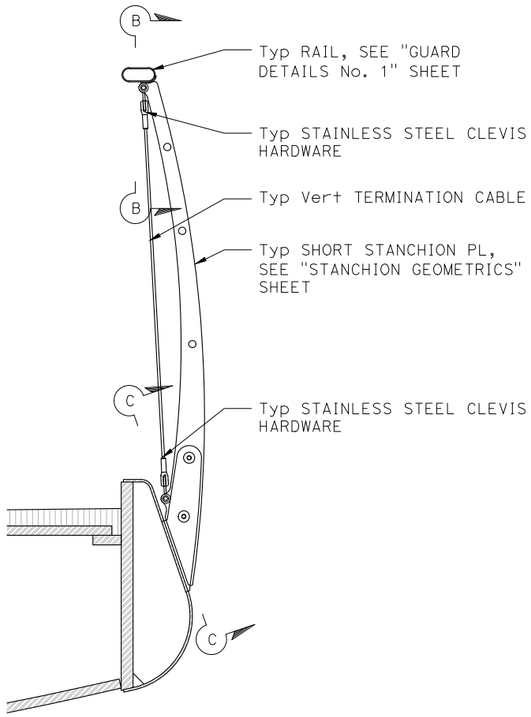
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

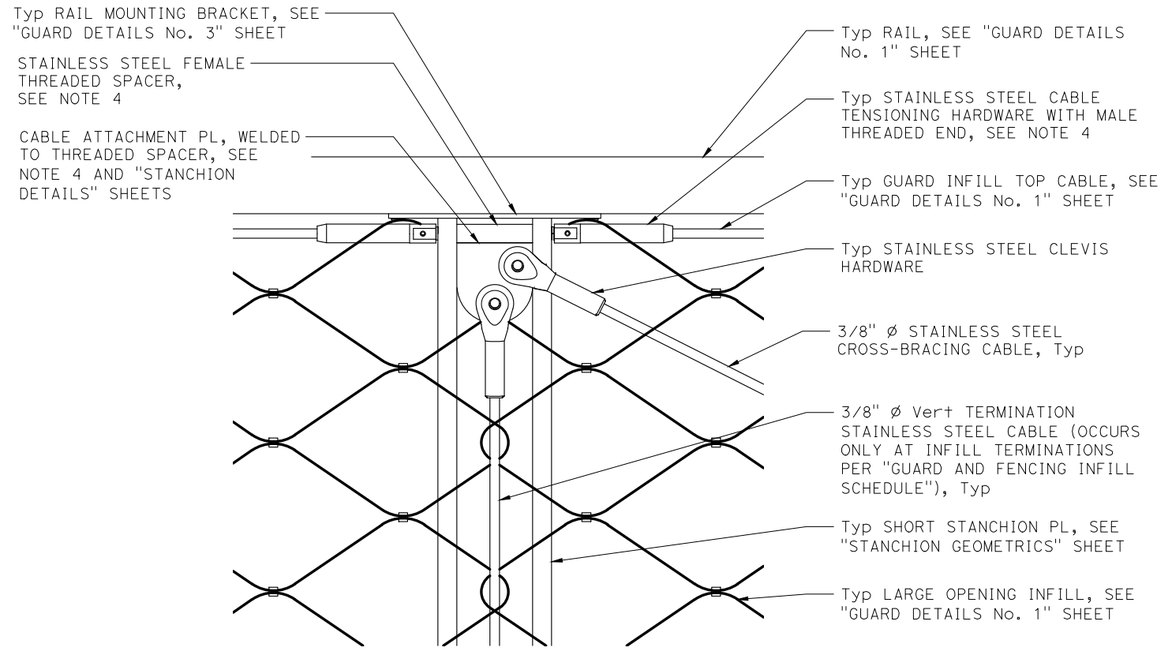
PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

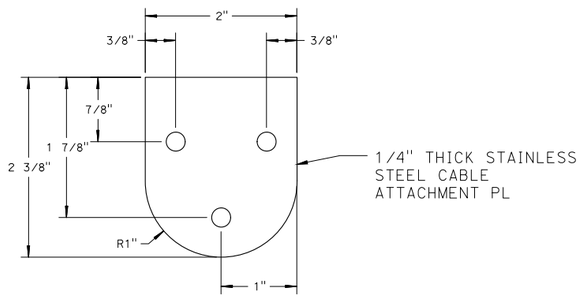
REVISION DATES				SHEET	OF
6-10-22		2-21-25	5-2-25	86	117



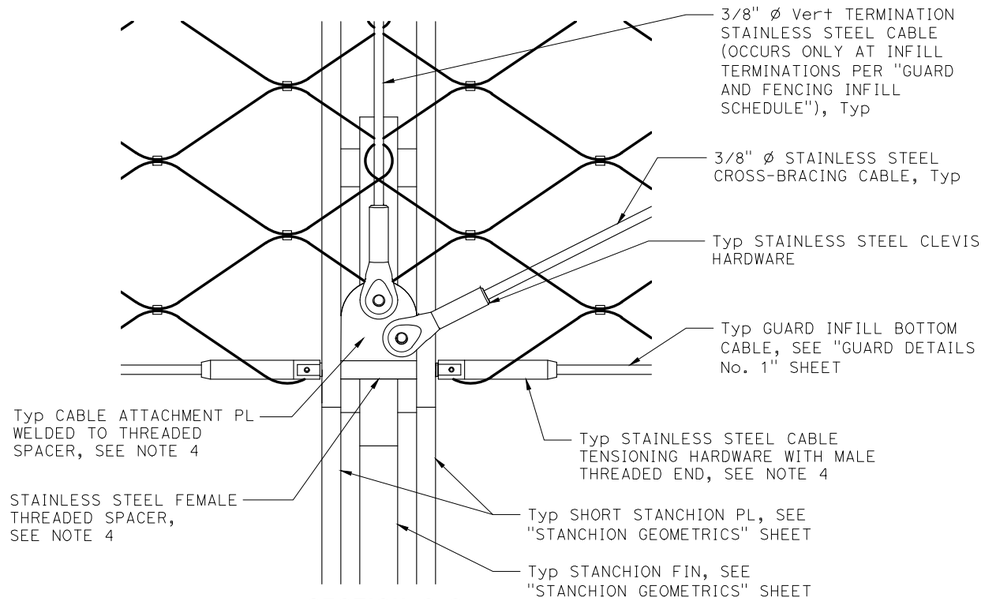
SECTION AT Typ INFILL TERMINATION
SCALE: 1 1/2" = 1'-0"



SECTION B-B
SCALE: 6" = 1'-0"



CABLE ATTACHMENT PL LAYOUT
SCALE: 1'-0" = 1'-0"



SECTION C-C
SCALE: 6" = 1'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	192	247

5-2-25
LICENSED ARCHITECT — DATE

LICENSED ARCHITECT
STEVEN GROVER
No. C28814
Exp. 1/31/27
STATE OF CALIFORNIA

PLANS APPROVAL DATE

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STEVEN GROVER & ASSOCIATES
800 HEINZ AVE, STUDIO 11
BERKELEY, CA 94710

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

NOTES:

1. Infill hatch is representative and not to scale.
2. Where infill must be cut, neatly finish mesh fabric and secure cut ends within ferrules in accordance with manufacturer's instructions.
3. See "GUARD BRACING SCHEDULE" on "GUARD AND FENCING LAYOUT" sheets for the start and end stations of all bracing.
4. Omit the threaded spacer, cable attachment plate, and tensioning hardware where cross bracing and vertical tensioned cables do not occur. Pass the longitudinal tensioned cable through the stanchion plates.

Rakesh Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Darling	S. Grover
DETAILS	J. Darling	S. Grover
QUANTITIES	J. Darling	O. Tsai

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

STEVEN GROVER
PROJECT ARCHITECT

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
GUARD DETAILS No. 2

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => Dec 20, 2024 TIME PLOTTED => 5:00pm
FILE => SR_101_ARCH Publish Set.dwg USERNAME => SGA

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES			SHEET	OF
6-19-22		2-21-25 5-2-25	87	117

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	193	247

5-2-25
LICENSED ARCHITECT — DATE

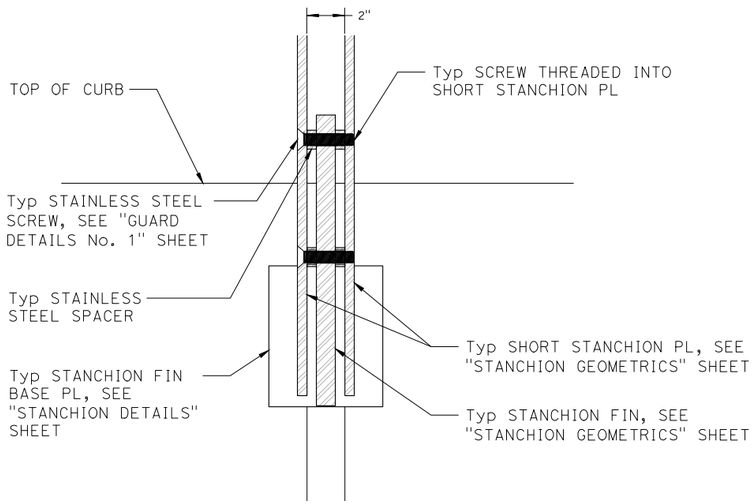
PLANS APPROVAL DATE

LICENSED ARCHITECT — STEVEN GROVER No. C28814 Exp. 1/31/27 — STATE OF CALIFORNIA

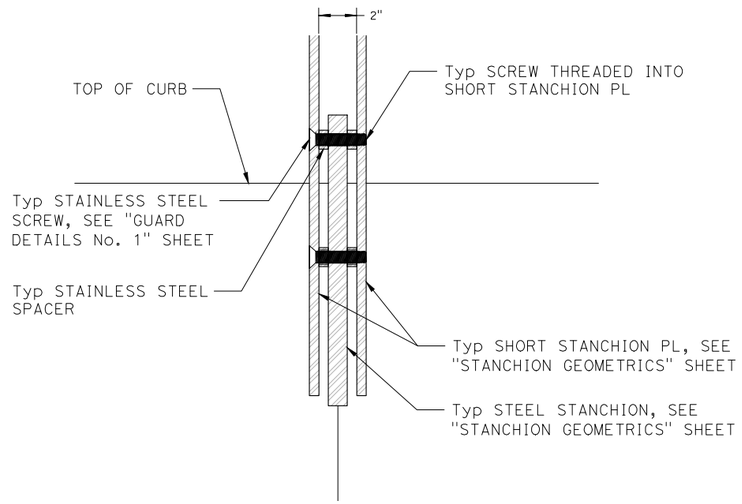
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800 HEINZ AVE, STUDIO 11
BERKELEY, CA 94710

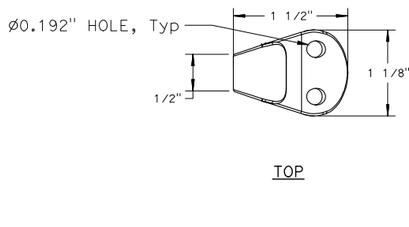
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

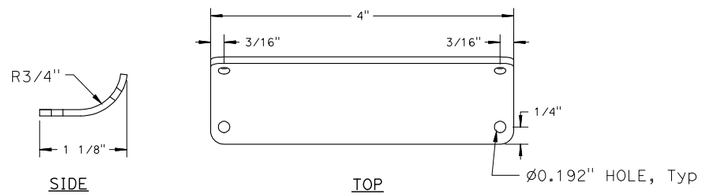


ELEVATION DETAIL SHORT STANCHION CONCRETE SLAB
SCALE: 3" = 1'-0"

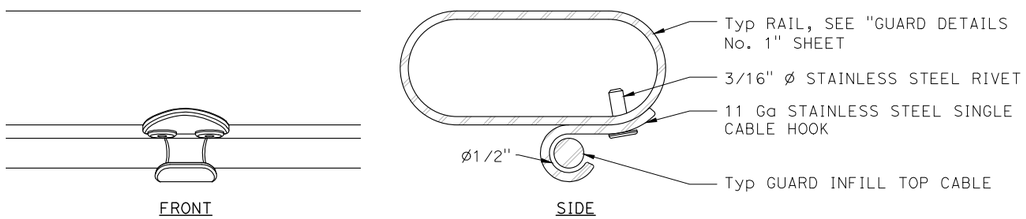


ELEVATION DETAIL SHORT STANCHION STEEL BOX
SCALE: 3" = 1'-0"





Typ RAIL MOUNTING BRACKET
SCALE: 1'-0" = 1'-0"



Typ SINGLE CABLE HOOK
SCALE: 1'-0" = 1'-0"

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Darling	S. Grover
DETAILS	J. Darling	S. Grover
QUANTITIES	J. Darling	O. Tsai

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

STEVEN GROVER
PROJECT ARCHITECT

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
GUARD DETAILS No. 3

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

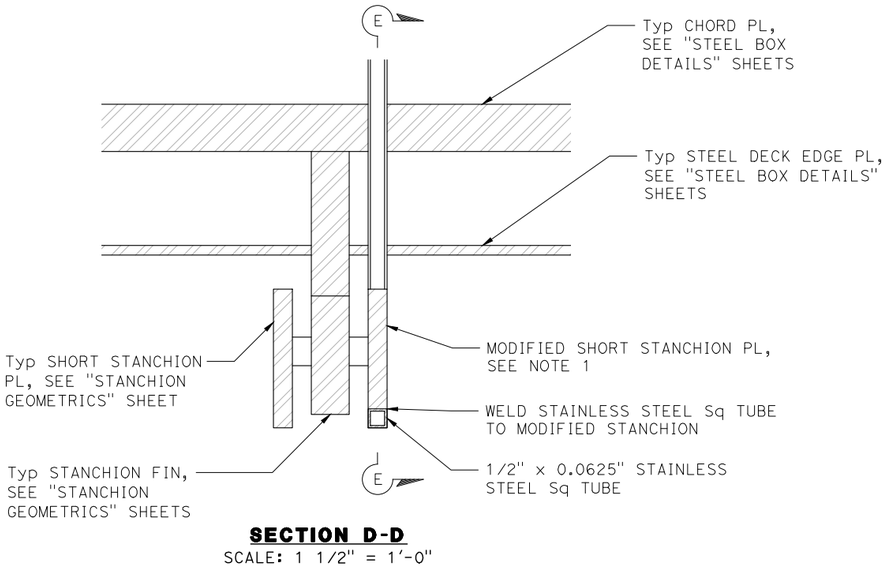
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

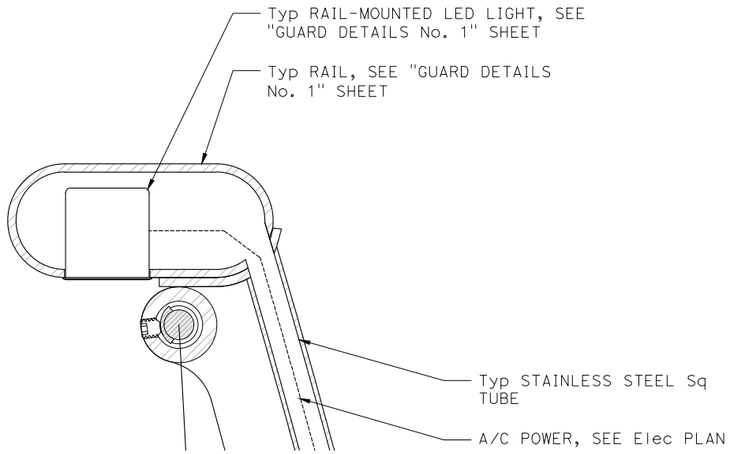
PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES: 6-14-22 | 2-21-25 | 5-2-25

SHEET 88 OF 117



SECTION D-D
SCALE: 1 1/2" = 1'-0"



DETAIL 4
SCALE: 1'-0" = 1'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	194	247

5-2-25
LICENSED ARCHITECT — DATE

LICENSED ARCHITECT — STEVEN GROVER No. C28814 Exp. 1/31/27 — STATE OF CALIFORNIA

PLANS APPROVAL DATE

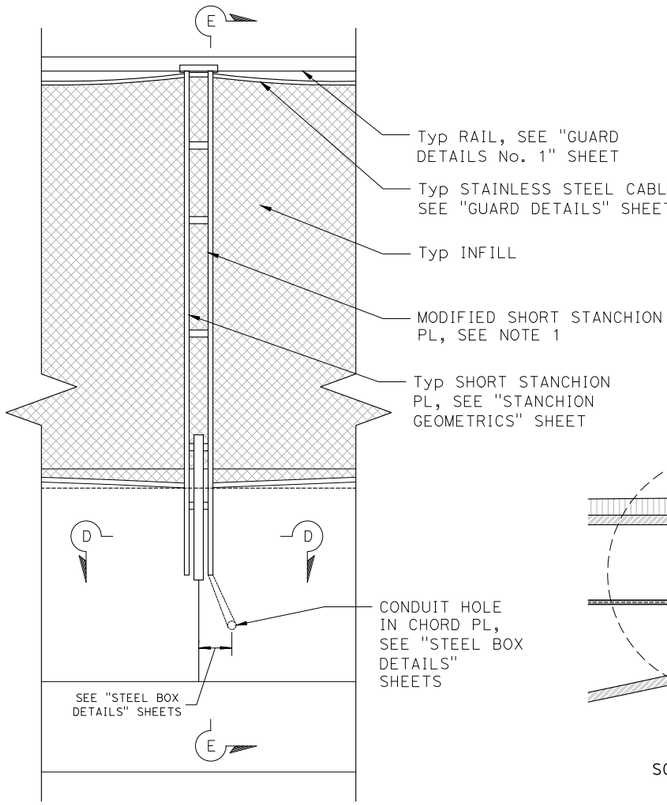
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STEVEN GROVER & ASSOCIATES
800 HEINZ AVE, STUDIO 11
BERKELEY, CA 94710

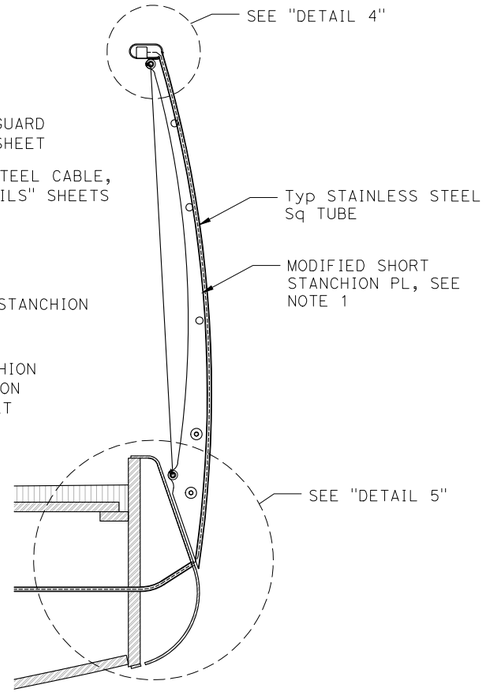
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

NOTES:

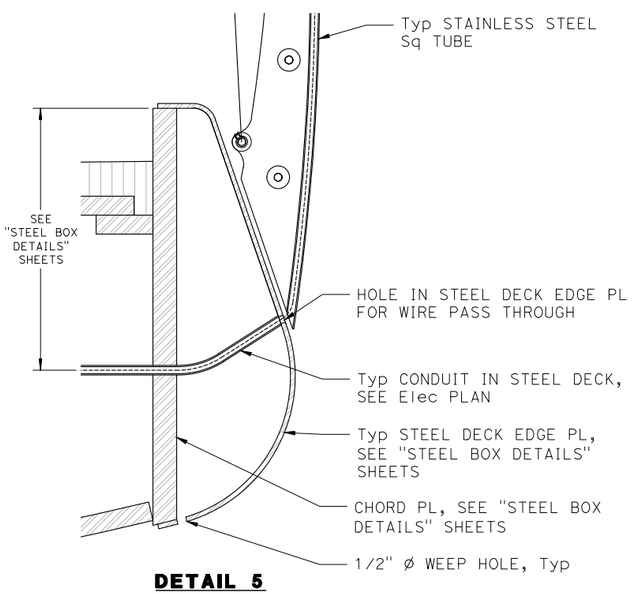
1. The modified short stanchion plate is geometrically the same as the typical short stanchion plate, except that the width of the modified plate is reduced by the thickness of the stainless steel square tube.
2. See "ELECTRICAL PLANS" for locations of conduit for rail lighting.



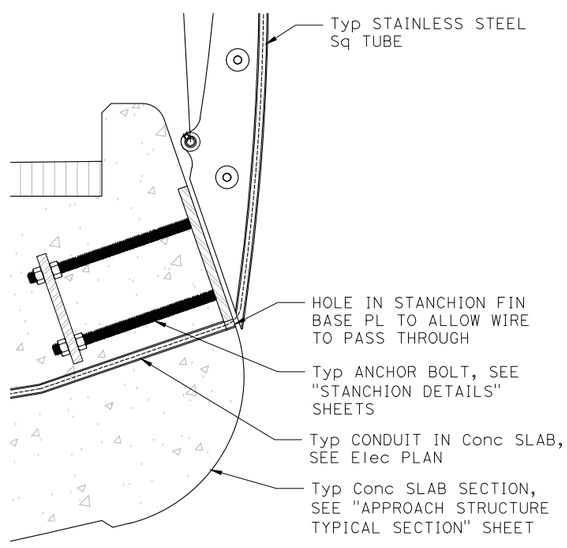
STANCHION ELEVATION
SCALE: 1 1/2" = 1'-0"



SECTION E-E
SCALE: 1 1/2" = 1'-0"



DETAIL 5
STEEL BOX
SCALE: 3" = 1'-0"



DETAIL 5
CONCRETE SLAB
SCALE: 3" = 1'-0"

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Darling	S. Grover
DETAILS	J. Darling	S. Grover
QUANTITIES	J. Darling	O. Tsai

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

STEVEN GROVER
PROJECT ARCHITECT

BRIDGE NO.	20-0307
POST MILES	21.5

EDWARDS AVENUE POC
GUARD DETAILS No. 4

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

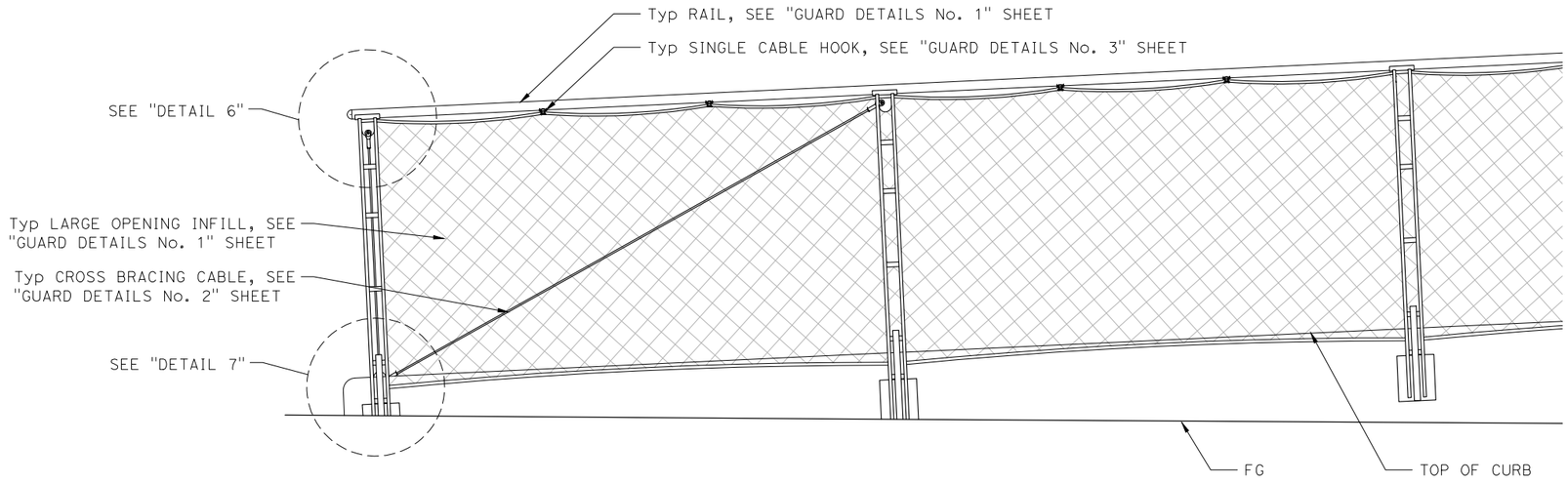
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

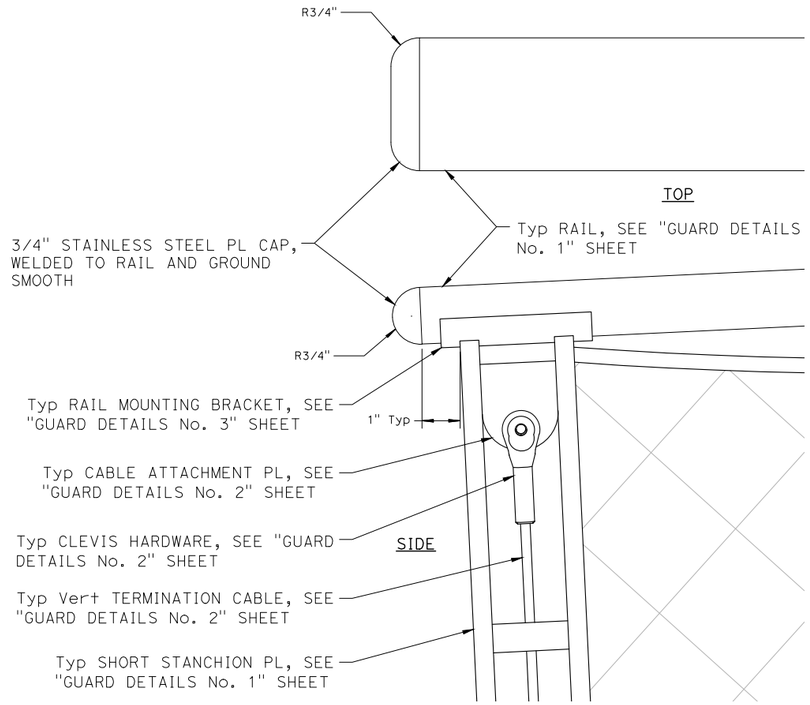
PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

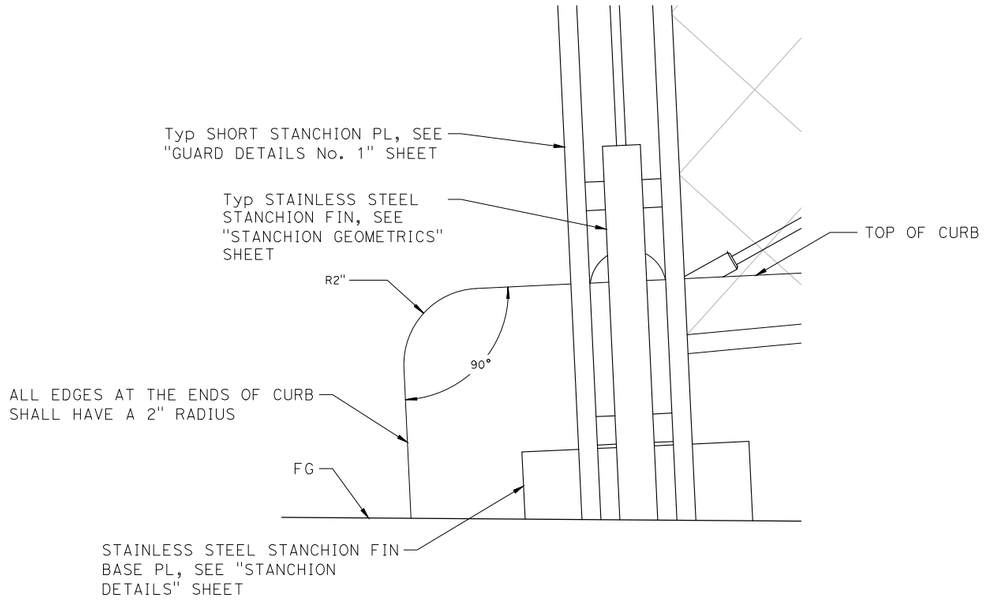
REVISION DATES			SHEET	OF
6-14-22	2-21-25	5-2-25	89	117



Typ GUARD TERMINATION ELEVATION
SCALE: 1" = 1'-0"



DETAIL 6
SCALE: 6" = 1'-0"



DETAIL 7
SCALE: 6" = 1'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	195	247

5-2-25
LICENSED ARCHITECT — DATE

LICENSED ARCHITECT
STEVEN J. GROVER
No. C28814
Exp. 1/31/27
STATE OF CALIFORNIA

PLANS APPROVAL DATE

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STEVEN GROVER & ASSOCIATES
800 HEINZ AVE, STUDIO 11
BERKELEY, CA 94710

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

		BY	CHECKED
DESIGN		J. Darling	S. Grover
DETAILS		J. Darling	S. Grover
QUANTITIES		J. Darling	O. Tsai

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

STEVEN GROVER
PROJECT ARCHITECT

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
GUARD DETAILS No. 5

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

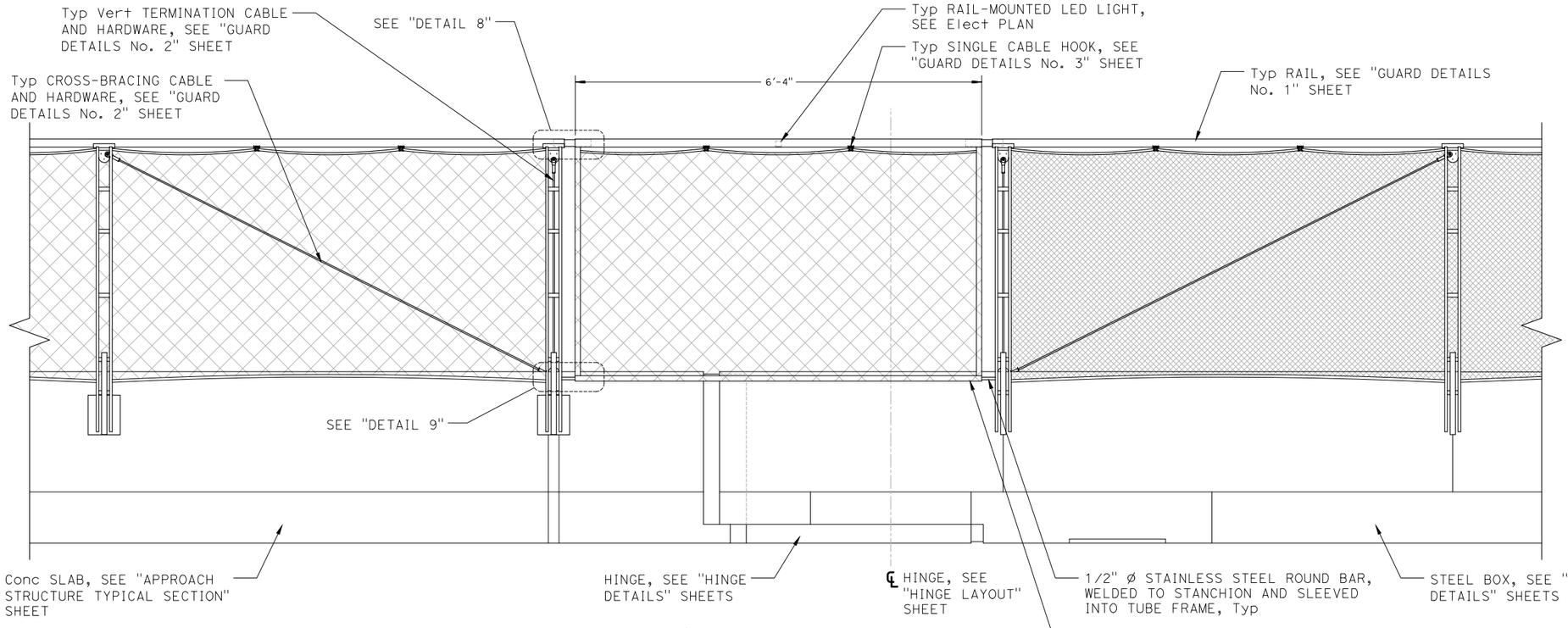
DATE PLOTTED => Dec 20, 2024 TIME PLOTTED => 5:00pm
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

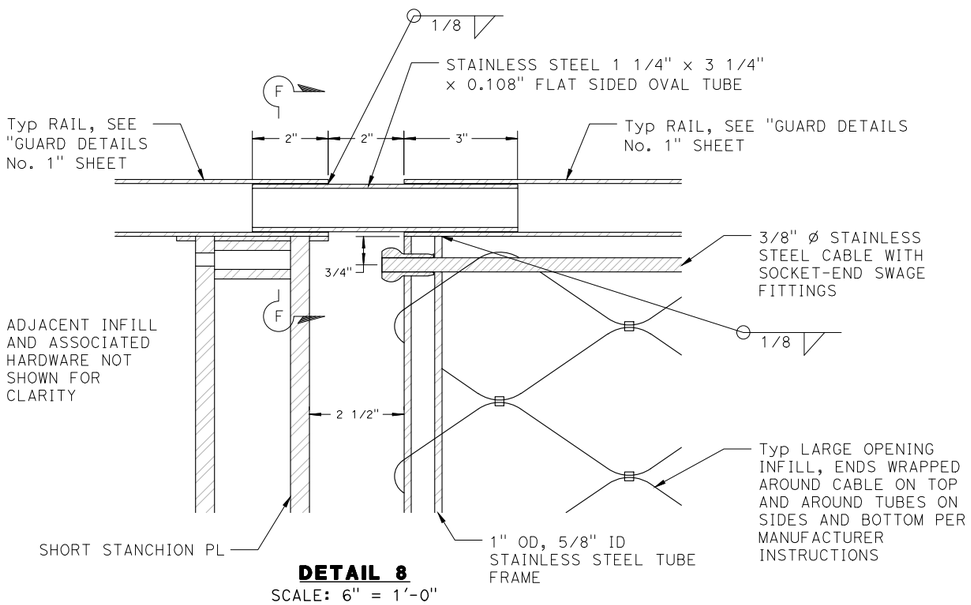
PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

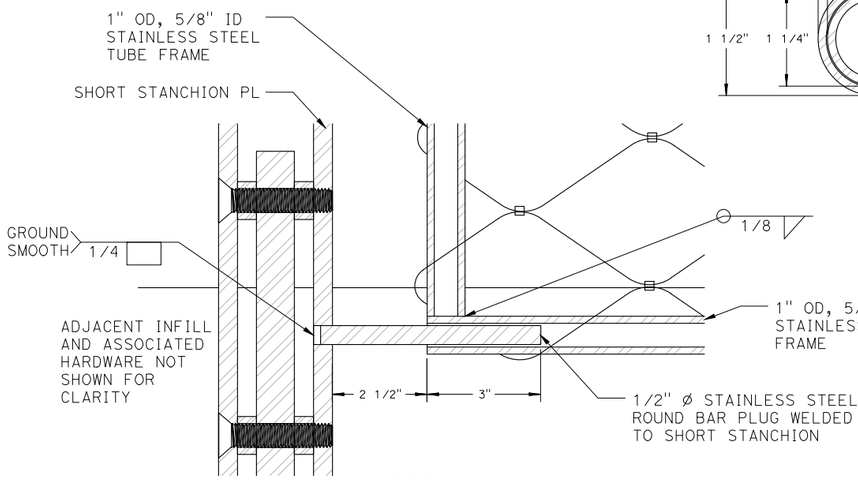
REVISION DATES				SHEET	OF
5-19-22		2-21-25	5-2-25	90	117



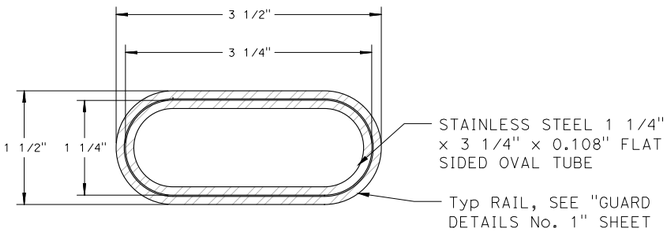
ELEVATION
Typ GUARD WITH EXPANSION DETAIL AT HINGES AND JOINTS
SCALE: 1/2" = 1'-0"



DETAIL 8
SCALE: 6" = 1'-0"



DETAIL 9
SCALE: 6" = 1'-0"



SECTION F-F
SCALE: 1'-0" = 1'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	196	247

5-2-25
LICENSED ARCHITECT — DATE

LICENSED ARCHITECT
STEVEN J. GROVER
No. C28814
Exp. 1/31/27
STATE OF CALIFORNIA

PLANS APPROVAL DATE

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STEVEN GROVER & ASSOCIATES
800 HEINZ AVE, STUDIO 11
BERKELEY, CA 94710

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

NOTES:

1. Infill hatch is representative and not to scale.
2. See "GUARD BRACING SCHEDULE" on "GUARD AND FENCING LAYOUT" sheets for the start and end stations of all bracing.
3. See "GUARD AND FENCING LAYOUT" sheets for all locations where guard with expansion occurs.
4. Where infill must be cut, neatly finish mesh fabric and secure cut ends within ferrules in accordance with manufacturer's instructions.

Robert Des
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Darling	S. Grover
DETAILS	J. Darling	S. Grover
QUANTITIES	J. Darling	O. Tsai

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

STEVEN GROVER
PROJECT ARCHITECT

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
GUARD DETAILS No. 6

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

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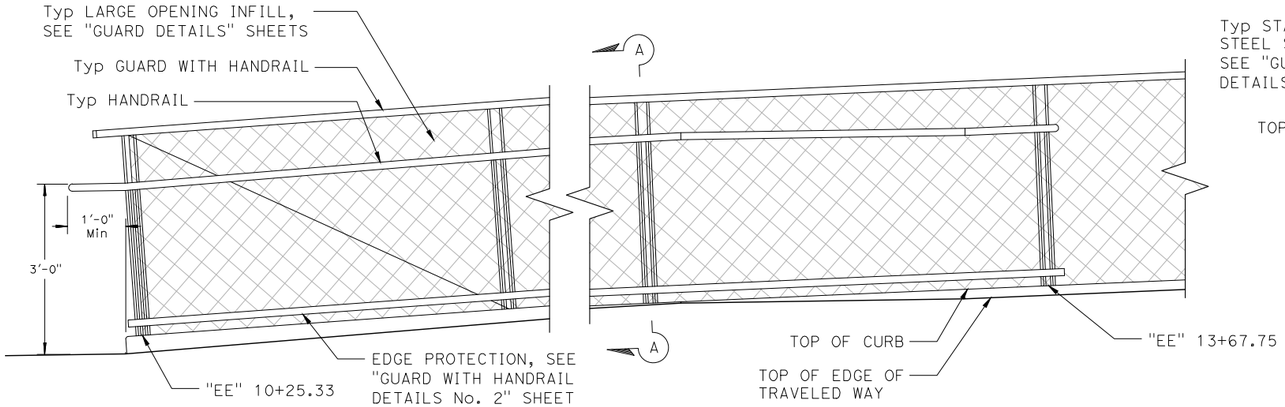
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

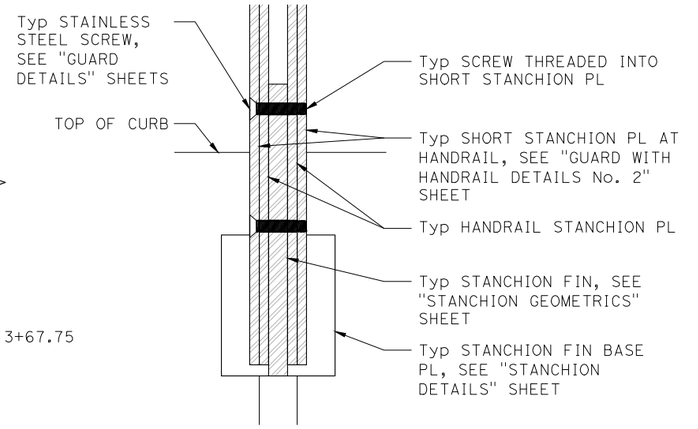
REVISION DATES			
6-14-22		2-21-25	5-2-25

SHEET	OF
91	117



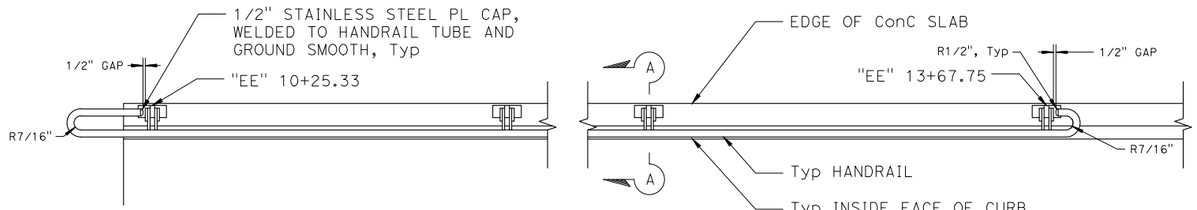
Typ GUARD WITH HANDRAIL ELEVATION

SCALE: 3/4" = 1'-0"



SECTION B-B

SCALE: 3" = 1'-0"



Typ GUARD WITH HANDRAIL PLAN

SCALE: 3/4" = 1'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	197	247

5-2-25
LICENSED ARCHITECT — DATE

LICENSED ARCHITECT — STEVEN GROVER No. C28814 Exp. 1/31/27 — STATE OF CALIFORNIA

PLANS APPROVAL DATE

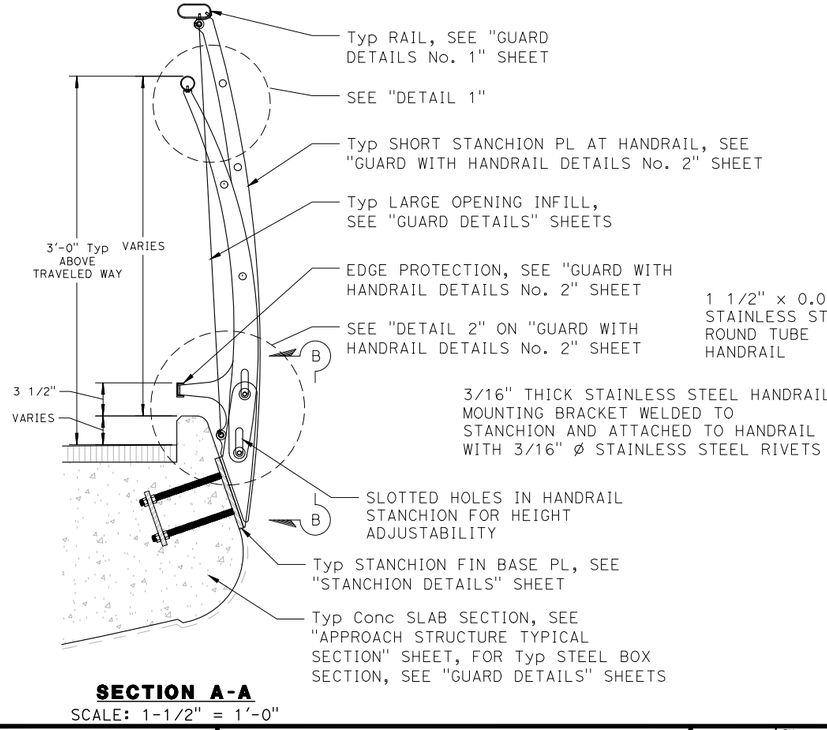
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STEVEN GROVER & ASSOCIATES
800 HEINZ AVE, STUDIO 11
BERKELEY, CA 94710

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

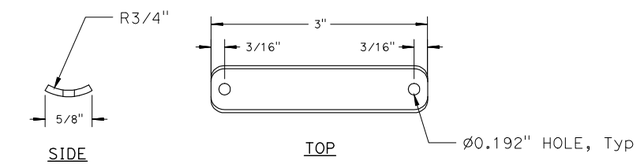
Notes:

1. Where infill must be cut, neatly finish mesh fabric and secure cut ends within ferrules in accordance with manufacturer's instructions.
2. To account for the variance in height between the traveled way and stanchion fin, use two variants of the handrail stanchions with slotted holes so that the handrail meets the target height dimension. See "STANCHION GEOMETRICS" sheet for geometric layout of the two handrail stanchion variants.
3. Weld and grind smooth joints between lengths of handrail.
4. Handrail expansion to be located at similar locations as the rail expansion, see "GUARD DETAILS No. 6" sheet.



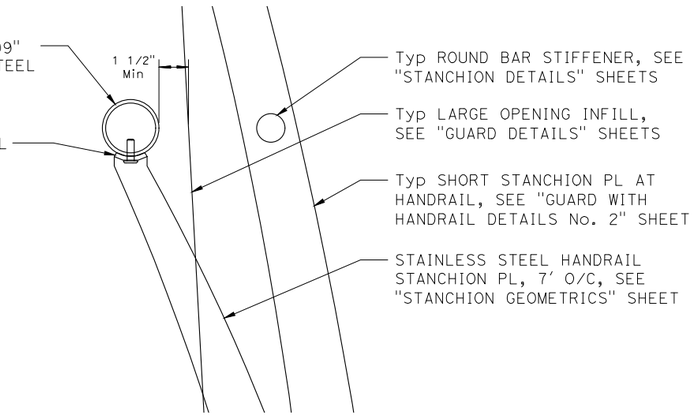
SECTION A-A

SCALE: 1-1/2" = 1'-0"



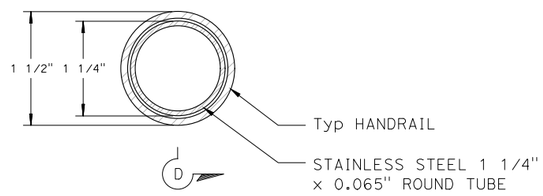
HANDRAIL MOUNTING BRACKET DETAIL

SCALE: 1'-0" = 1'-0"



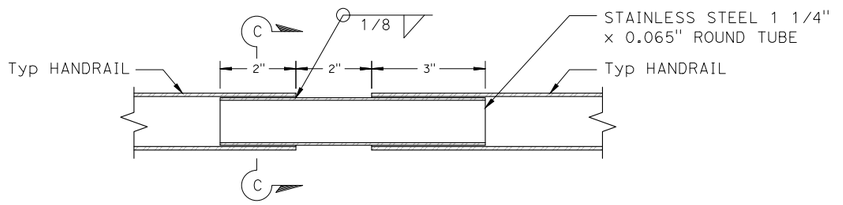
DETAIL 1

SCALE: 6" = 1'-0"



SECTION C-C HANDRAIL EXPANSION

SCALE: 1'-0" = 1'-0"



SECTION D-D HANDRAIL EXPANSION

SCALE: 6" = 1'-0"

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Darling	S. Grover
DETAILS	J. Darling	S. Grover
QUANTITIES	J. Darling	O. Tsai

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

STEVEN GROVER
PROJECT ARCHITECT

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC

GUARD WITH HANDRAIL DETAILS No. 1

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => Dec 20, 2024 TIME PLOTTED => 5:00pm
FILE => SR_101_ARCH Publish Set.dwg USERNAME => SGA

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

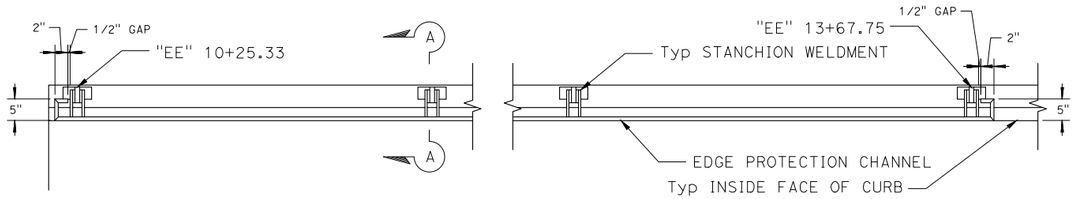
PROJECT NUMBER & PHASE: 04130002131

COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

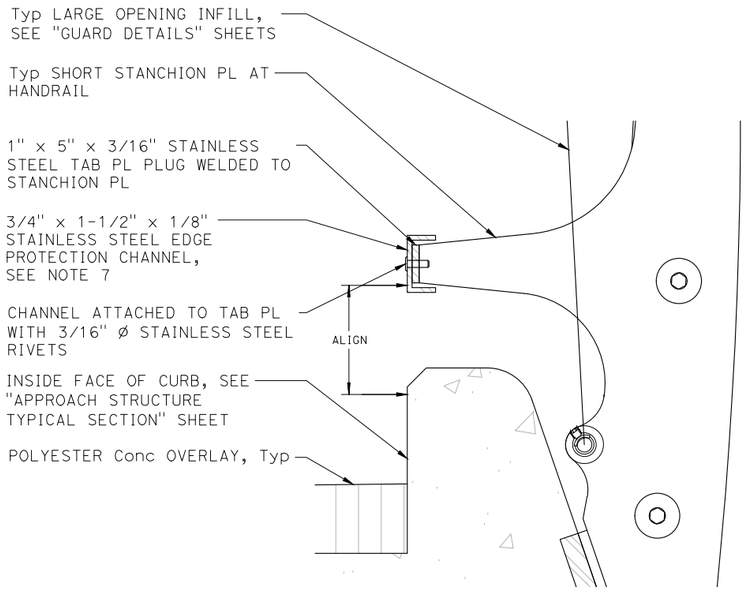
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES			
5-16-22		2-21-25	5-2-25

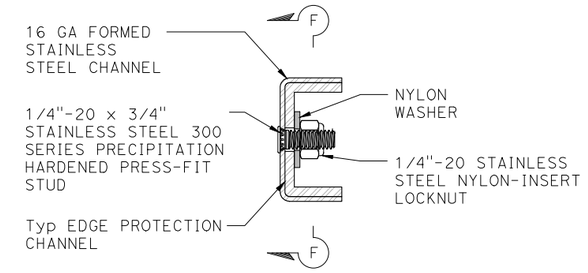
SHEET	OF
92	117



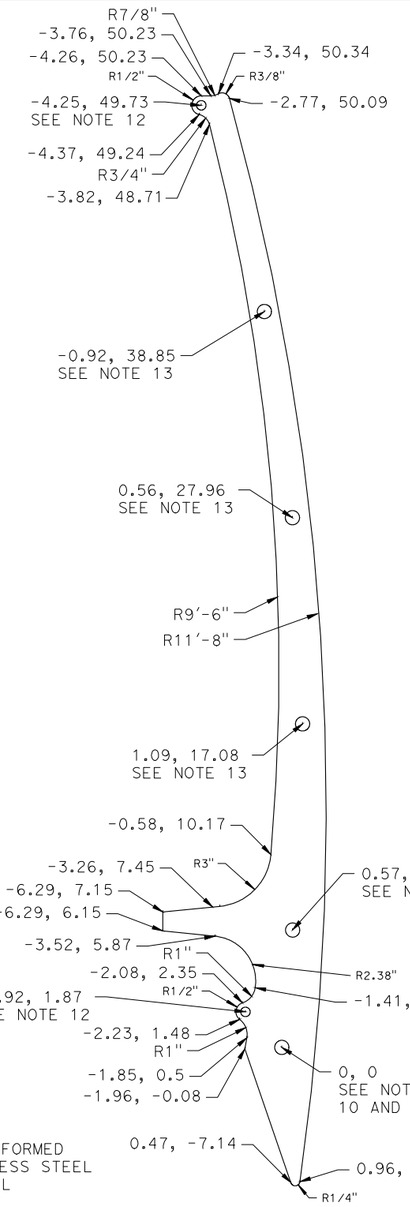
Typ EDGE PROTECTION PLAN
SCALE: 3/4" = 1'-0"



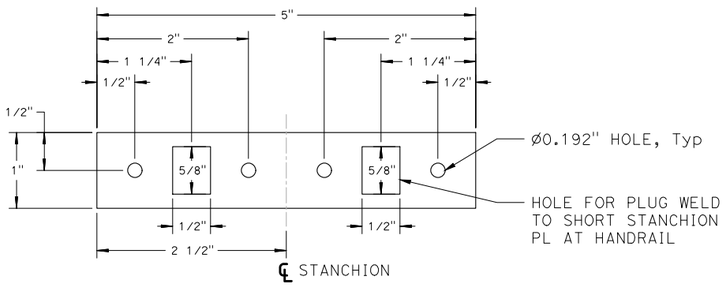
DETAIL 2
SCALE: 6" = 1'-0"



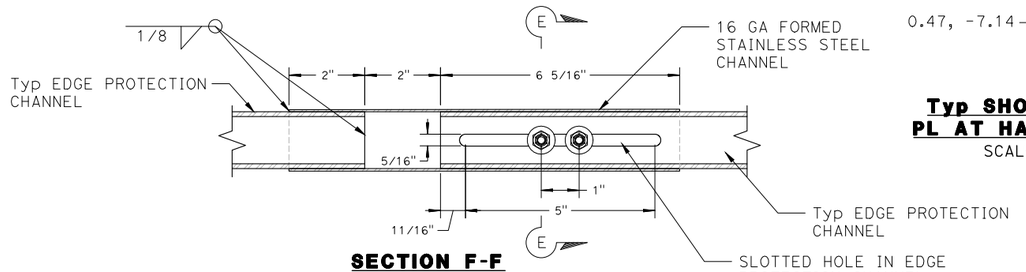
SECTION E-E
EDGE PROTECTION EXPANSION
SCALE: 1'-0" = 1'-0"



Typ SHORT STANCHION PL AT HANDRAIL LAYOUT
SCALE: 3" = 1'-0"



TAB PLATE LAYOUT
SCALE: 1'-0" = 1'-0"



SECTION F-F
EDGE PROTECTION EXPANSION
SCALE: 6" = 1'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	198	247

5-2-25
LICENSED ARCHITECT — DATE

LICENSED ARCHITECT — STEVEN GROVER No. C28814 Exp. 1/31/27 — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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STEVEN GROVER & ASSOCIATES
800 HEINZ AVE, STUDIO 11
BERKELEY, CA 94710

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

Notes:

1. All coordinates are given in inches, unless otherwise noted.
2. See "STANCHION DETAILS" sheet for material thickness and specification.
3. See "STANCHION DETAILS" sheet for unspecified hole diameters.
4. If no radius is specified, assume the line segment between points is straight.
5. See "GUARD DETAILS" sheets for typical short stanchion details not shown on this sheet.
6. See "GUARD WITH HANDRAIL DETAILS No. 1" sheet for typical handrail details not shown on this sheet.
7. Weld and grind smooth joints between lengths of channel.
8. Where infill must be cut, neatly finish mesh fabric and secure cut ends within ferrules in accordance with manufacturer's instructions.
9. Edge protection expansion to be located at similar locations as the handrail rail expansion, see "GUARD WITH HANDRAIL DETAILS No. 1" sheet.
10. All coordinates denoted as "0, 0" are the equal to the stanchion work point, see "STANCHION DETAILS" sheets.
11. Hole for stainless steel screw, see "STANCHION DETAILS" sheet.
12. 1/2" Ø hole for guard infill cable, see "GUARD DETAILS No. 1" sheet.
13. Hole for round bar stiffener, see "STANCHION DETAILS" sheets.

Robert A. Peo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Darling	S. Grover
DETAILS	J. Darling	S. Grover
QUANTITIES	J. Darling	O. Tsai

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

STEVEN GROVER
PROJECT ARCHITECT

BRIDGE NO.	20-0307
POST MILES	21.5

EDWARDS AVENUE POC
GUARD WITH HANDRAIL DETAILS No. 2

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => Dec 20, 2024 TIME PLOTTED => 5:00pm
FILE => SR_101_ARCH Publish Set.dwg USERNAME => SGA

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131

COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
6-16-22		2-21-25	5-2-25	93	117

NOTES:

1. Gaps and openings must not allow passage of 1" ø sphere.
2. Typical dimension is 7" and varies between 7/16" and 22 11/16". See "STANCHION GEOMETRICS" sheet.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	199	247

5-2-25
LICENSED ARCHITECT — DATE

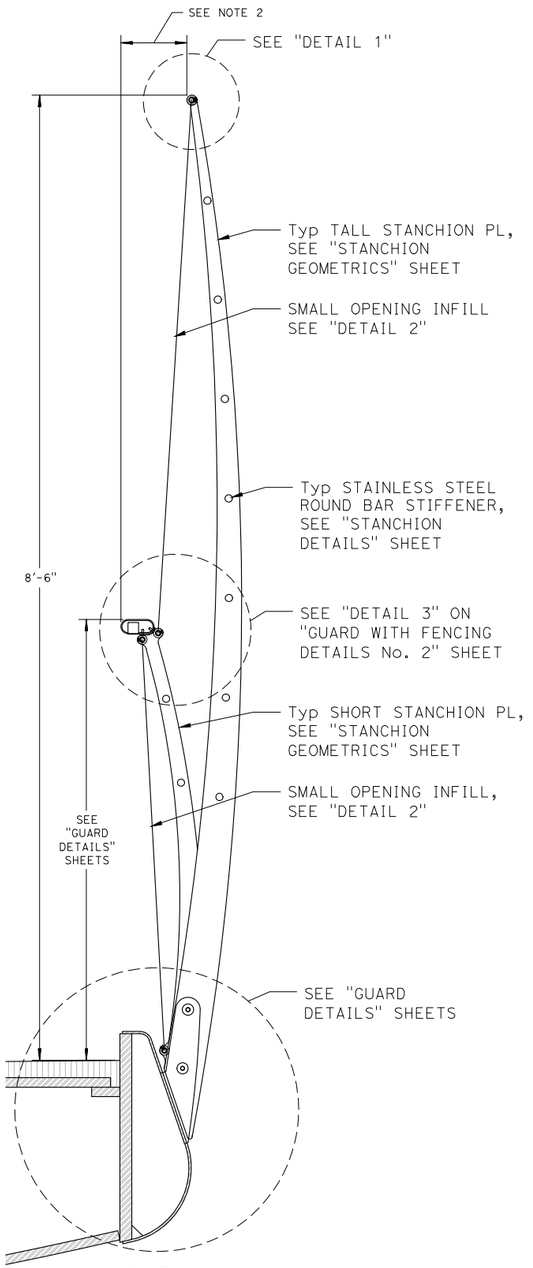
PLANS APPROVAL DATE

LICENSED ARCHITECT — STEVEN GROVER No. C28814 Exp. 1/31/27 — STATE OF CALIFORNIA

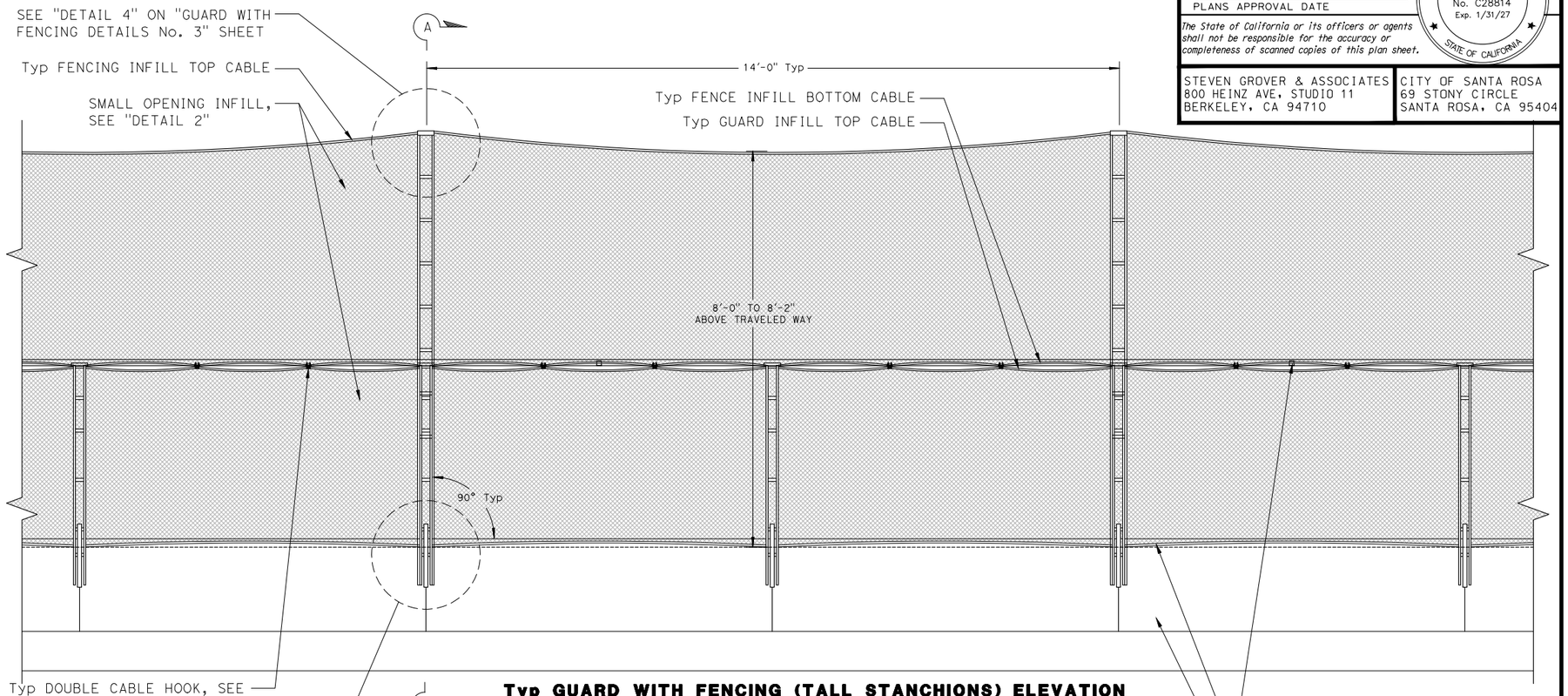
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800 HEINZ AVE, STUDIO 11
BERKELEY, CA 94710

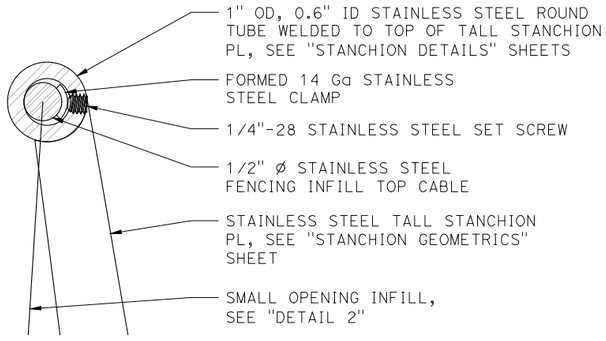
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404



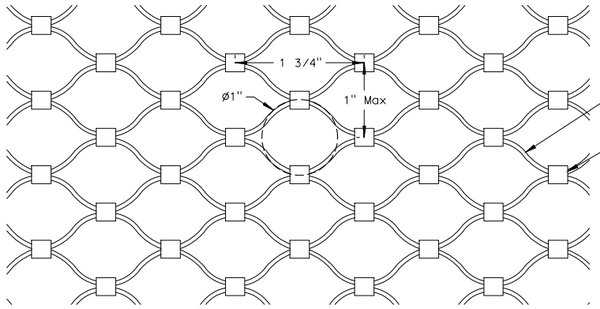
SECTION A-A
SCALE: 1-1/2" = 1'-0"



Typ GUARD WITH FENCING (TALL STANCHIONS) ELEVATION
SCALE: 3/4" = 1'-0"



DETAIL 1
SCALE: 1'-0" = 1'-0"



DETAIL 2
SMALL OPENING INFILL
SCALE: 1'-0" = 1'-0"

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Darling	S. Grover
DETAILS	J. Darling	S. Grover
QUANTITIES	J. Darling	O. Tsai

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

STEVEN GROVER
PROJECT ARCHITECT

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
GUARD WITH FENCING DETAILS No. 1

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => Dec 20, 2024 TIME PLOTTED => 5:00pm
FILE => SR_101_ARCH Publish Set.dwg USERNAME => SGA

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
6-19-22		2-21-25	5-2-25	94	117

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	200	247

5-2-25
LICENSED ARCHITECT — DATE

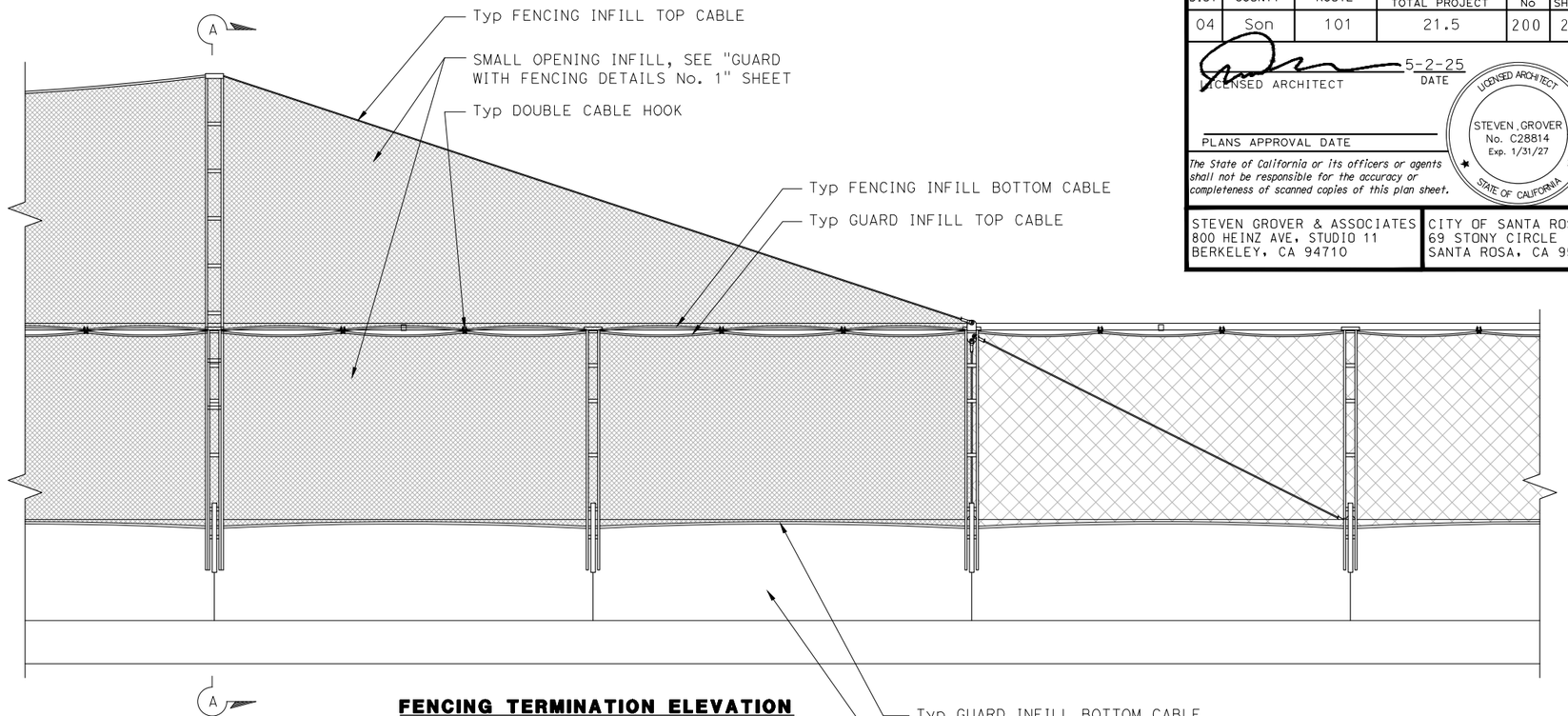
PLANS APPROVAL DATE

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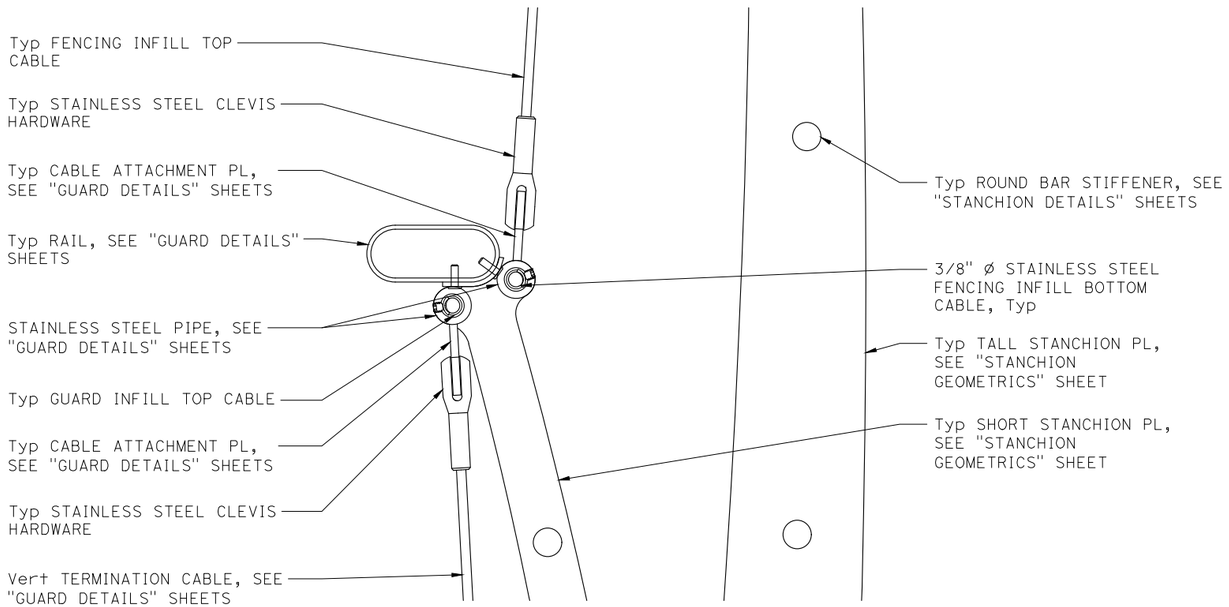
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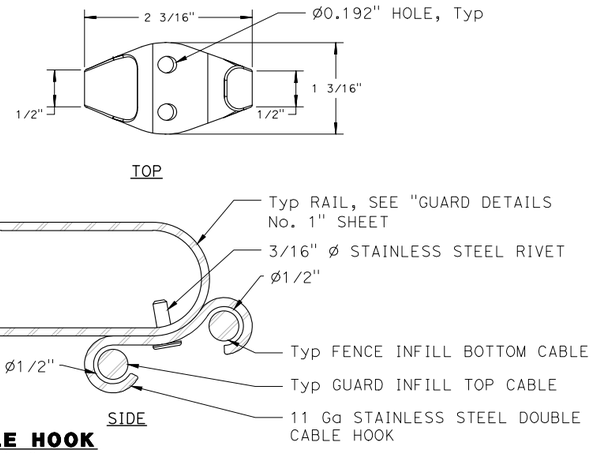
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404



FENCING TERMINATION ELEVATION
SCALE: 3/4" = 1'-0"



DETAIL 3
SCALE: 6" = 1'-0"



Typ DOUBLE CABLE HOOK
SCALE: 1'-0" = 1'-0"

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Darling	S. Grover
DETAILS	J. Darling	S. Grover
QUANTITIES	J. Darling	O. Tsai

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

STEVEN GROVER
PROJECT ARCHITECT

BRIDGE NO.	20-0307
POST MILES	21.5

EDWARDS AVENUE POC
GUARD WITH FENCING DETAILS No. 2

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

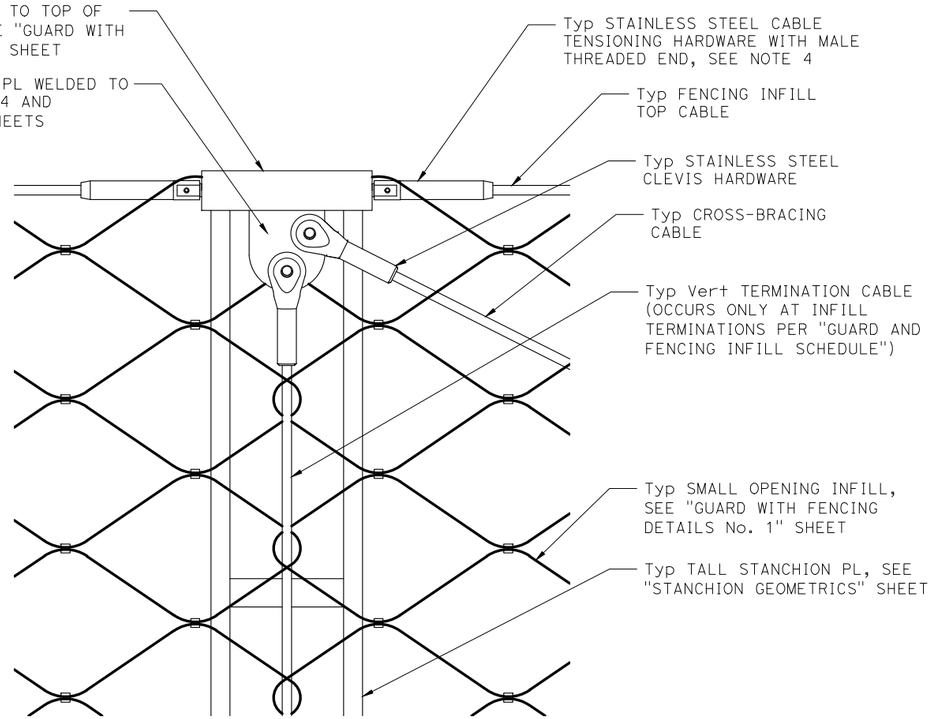
DATE PLOTTED => Dec 20, 2024 TIME PLOTTED => 5:00pm
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

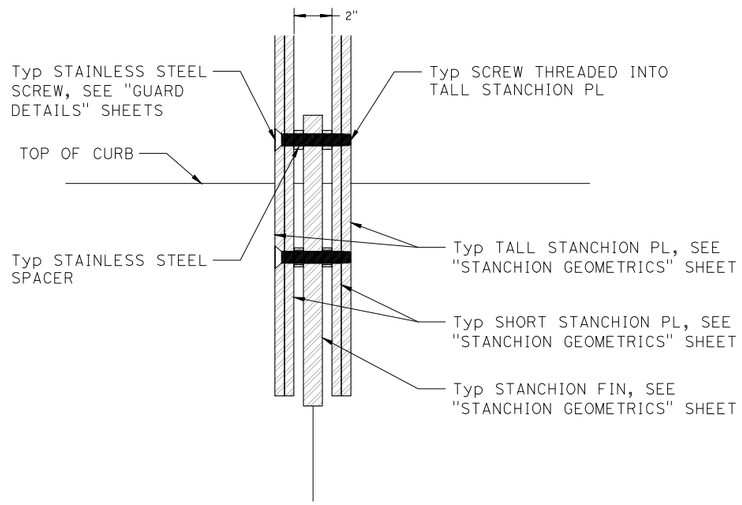
PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES: 6-19-24 | 2-21-25 | 5-2-25

SHEET 95 OF 117



DETAIL 4
INFILL TERMINATION AND CROSS BRACING DETAIL AT TOP OF TALL STANCHION
SCALE: 6" = 1'-0"



DETAIL 5
SCALE: 3" = 1'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	201	247

5-2-25
LICENSED ARCHITECT DATE

LICENSED ARCHITECT
STEVEN J. GROVER
No. C28814
Exp. 1/31/27
STATE OF CALIFORNIA

PLANS APPROVAL DATE

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STEVEN GROVER & ASSOCIATES
800 HEINZ AVE, STUDIO 11
BERKELEY, CA 94710

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

Notes:

1. Infill hatch is representative and not to scale.
2. Where infill must be cut, neatly finish mesh fabric and secure cut ends within ferrules in accordance with manufacturer's instructions.
3. See "GUARD BRACING SCHEDULE" on "GUARD AND FENCING LAYOUT" sheets for the start and end stations of all bracing.
4. Where cross bracing and vertical tensioned cables do not occur, the longitudinal tensioned cable passes through the stanchion plates. Omit the threaded spacer, cable attachment plate, and tensioning hardware. See "GUARD DETAILS" sheets for cable attachment plate layout.

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Darling	S. Grover
DETAILS	J. Darling	S. Grover
QUANTITIES	J. Darling	O. Tsai

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

STEVEN GROVER
PROJECT ARCHITECT

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
GUARD WITH FENCING DETAILS No. 3

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => Dec 20, 2024 TIME PLOTTED => 5:00pm
FILE => SR_101_ARCH Publish Set.dwg USERNAME => SGA

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
6-16-22		2-21-25	5-2-25	96	117

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	202	247

5-2-25
LICENSED ARCHITECT — DATE

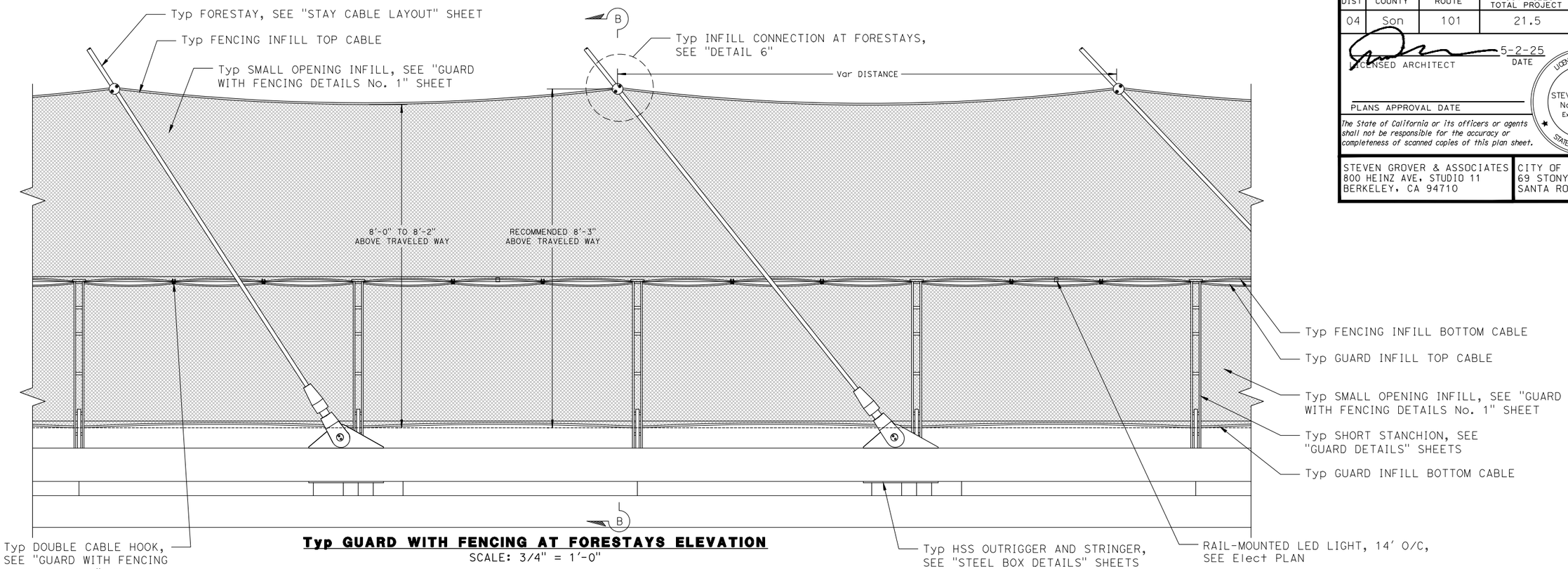
PLANS APPROVAL DATE

LICENSED ARCHITECT
STEVEN GROVER
No. C28814
Exp. 1/31/27
STATE OF CALIFORNIA

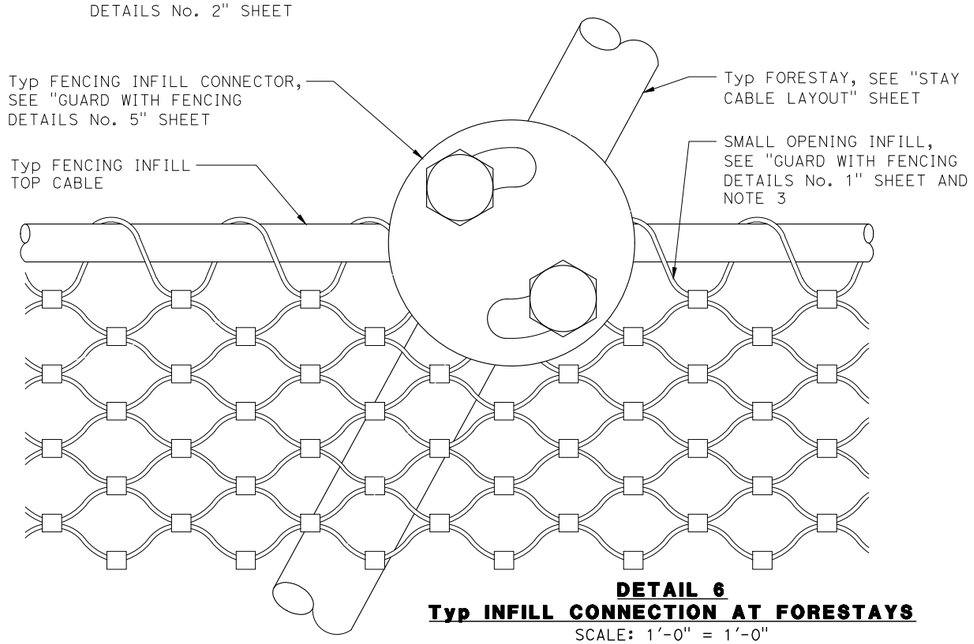
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BERKELEY, CA 94710

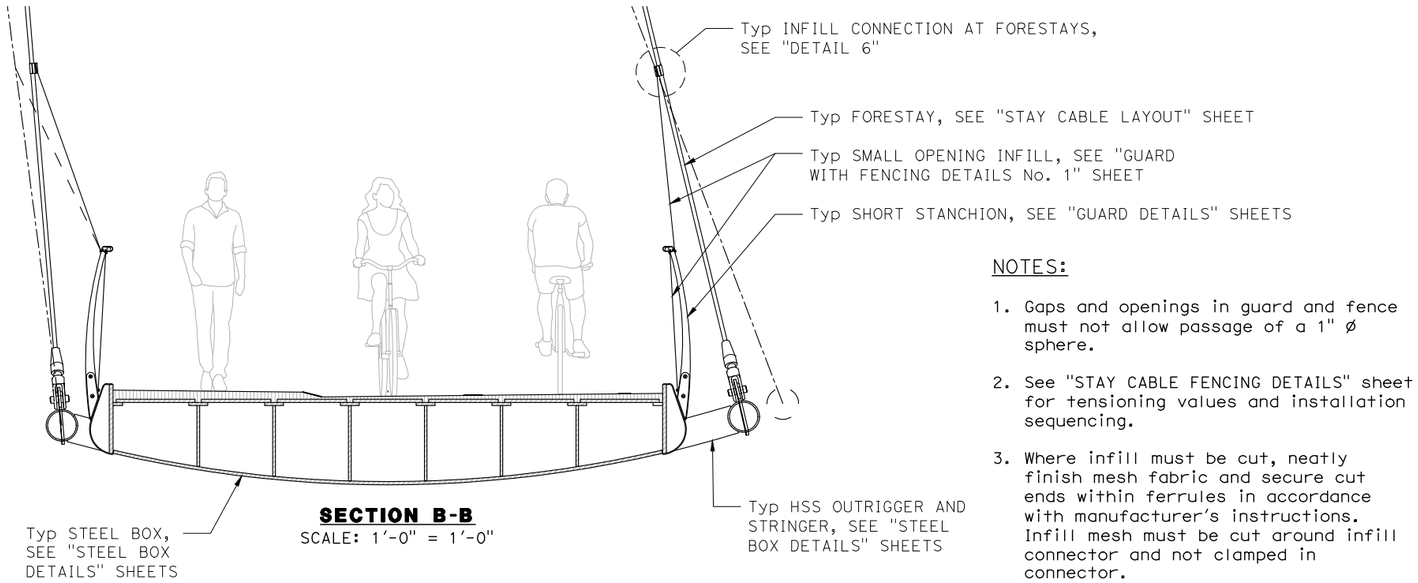
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404



Typ GUARD WITH FENCING AT FORESTAYS ELEVATION
SCALE: 3/4" = 1'-0"



DETAIL 6
Typ INFILL CONNECTION AT FORESTAYS
SCALE: 1'-0" = 1'-0"



SECTION B-B
SCALE: 1'-0" = 1'-0"

NOTES:

1. Gaps and openings in guard and fence must not allow passage of a 1" ø sphere.
2. See "STAY CABLE FENCING DETAILS" sheet for tensioning values and installation sequencing.
3. Where infill must be cut, neatly finish mesh fabric and secure cut ends within ferrules in accordance with manufacturer's instructions. Infill mesh must be cut around infill connector and not clamped in connector.

Raheel Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Darling	S. Grover
DETAILS	J. Darling	S. Grover
QUANTITIES	J. Darling	O. Tsai

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

STEVEN GROVER
PROJECT ARCHITECT

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
GUARD WITH FENCING DETAILS No. 4

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	203	247

LICENSED ARCHITECT — DATE 5-2-25

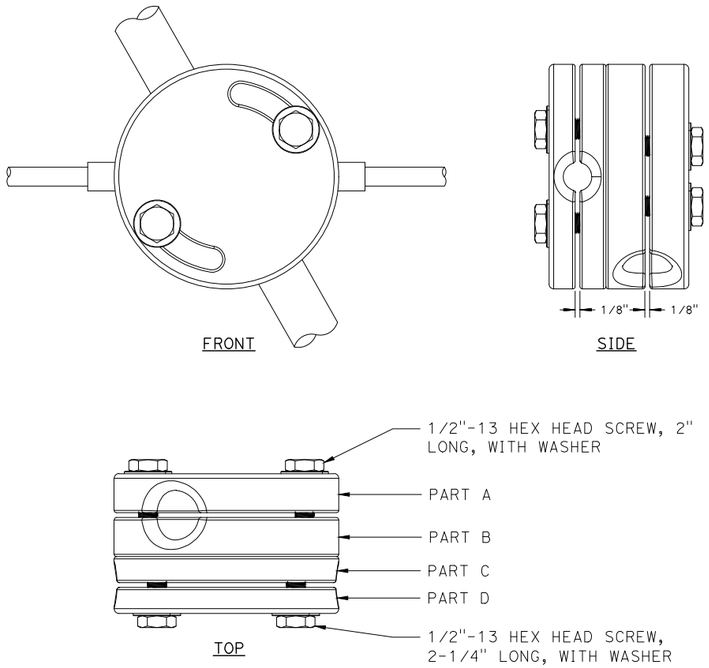
PLANS APPROVAL DATE

LICENSED ARCHITECT — STEVEN GROVER No. C28814 Exp. 1/31/27 — STATE OF CALIFORNIA

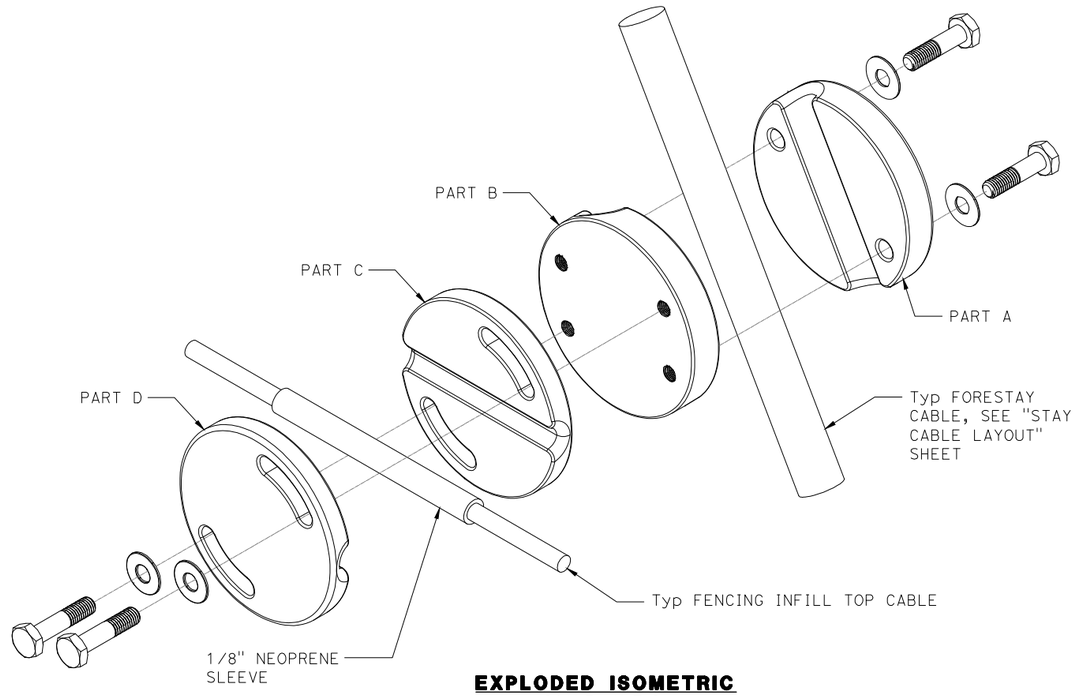
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BERKELEY, CA 94710

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404



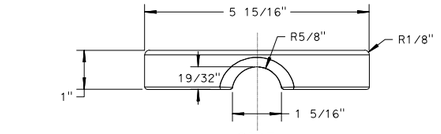
FENCING INFILL CONNECTOR
SCALE: 6" = 1'-0"

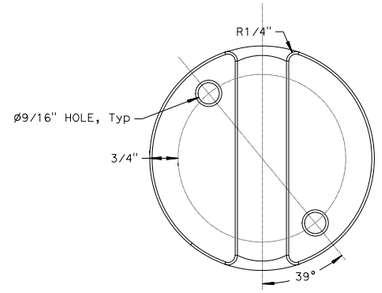


EXPLODED ISOMETRIC
SCALE: N.T.S.

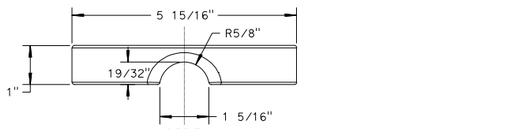
NOTES:

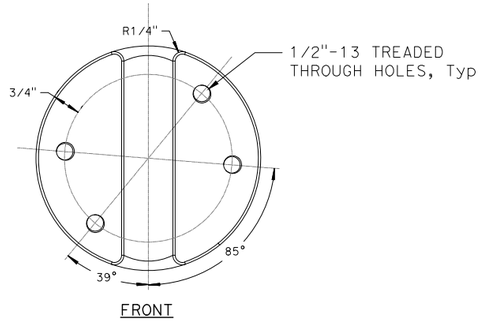
1. All parts composed of ASTM A572, grade 50 and hot-dipped galvanized.
2. All screws and washers are ASTM A574 and hot-dipped galvanized.
3. Fasten all screws with thread-locking compound.
4. Wrap stainless steel fencing cable with 1/8" neoprene sleeve along the length of parts C and D.
5. Gap must be constant along entire surface of adjacent parts.
6. All edges have a 1/16" fillet, unless otherwise noted
7. Tension in the socket head screws between parts A and B must be equal to 4,500 pounds per screw.
8. Tension in the socket head screws between parts B and D must be equal and must not exceed 4,500 pounds per screw.
9. Include protrusion on "PART D" for fencing infill connectors at FS9N and FS9S to connect to vertical termination fencing cable. Omit protrusion on all other fencing infill connectors. See "GUARD AND FENCING LAYOUT" sheets.



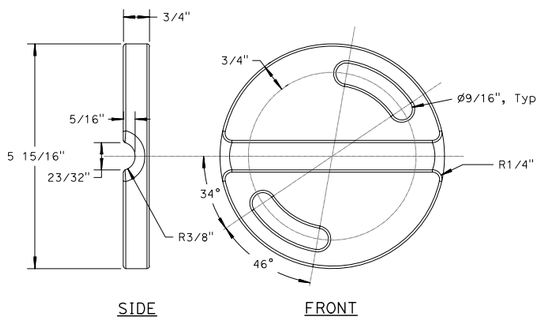


PART A
SCALE: 6" = 1'-0"

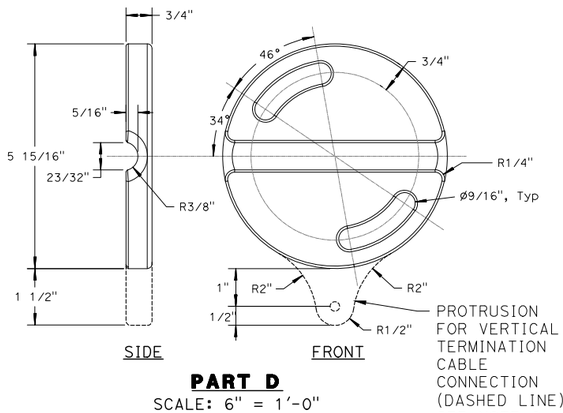




PART B
SCALE: 6" = 1'-0"



PART C
SCALE: 6" = 1'-0"



PART D
SCALE: 6" = 1'-0"

DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Darling	S. Grover
DETAILS	J. Darling	S. Grover
QUANTITIES	J. Darling	O. Tsai

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

STEVEN GROVER
PROJECT ARCHITECT

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
GUARD WITH FENCING DETAILS No. 5

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => Dec 20, 2024 TIME PLOTTED => 5:00pm
FILE => SR_101_ARCH Publish Set.dwg USERNAME => SGA

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131

COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
5-19-22		2-21-25	5-2-25	98	117

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	204	247

LICENSED ARCHITECT — 5-2-25 DATE

PLANS APPROVAL DATE

LICENSED ARCHITECT — STEVEN J. GROVER No. C28814 Exp. 1/31/27 — STATE OF CALIFORNIA

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BERKELEY, CA 94710

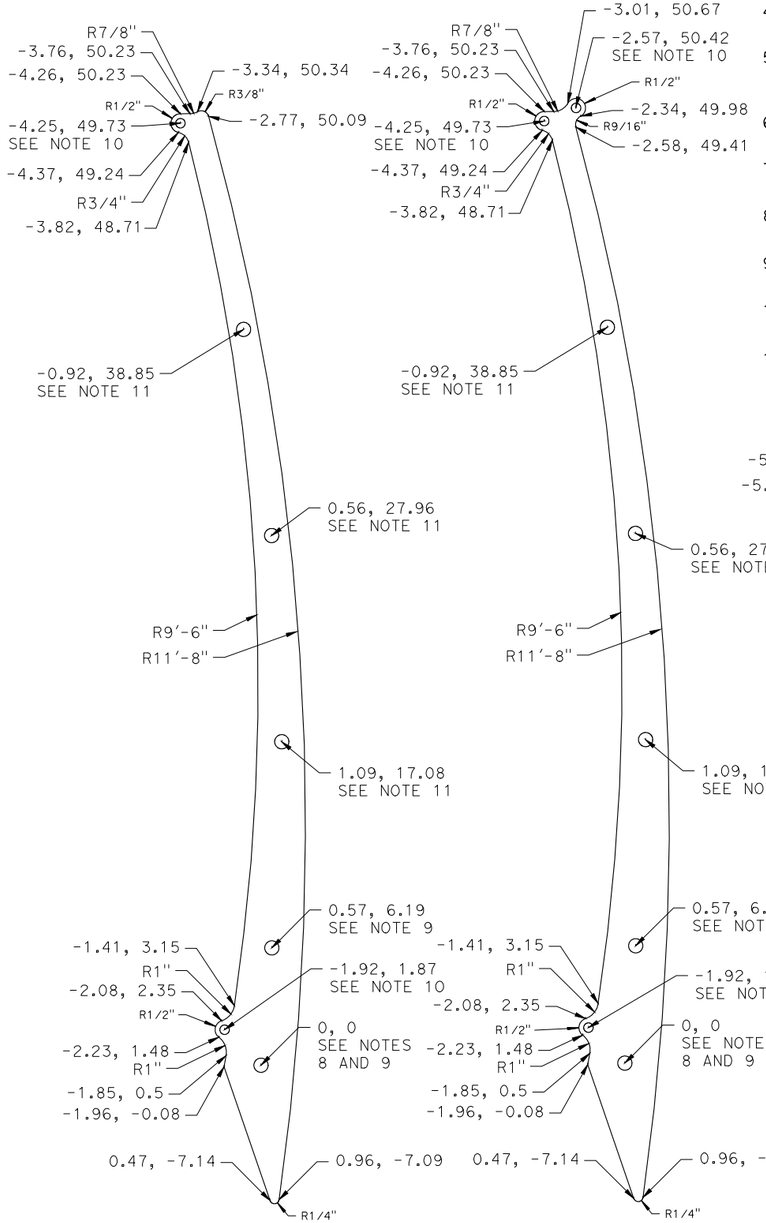
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

Notes:

1. All coordinates are given in inches, unless otherwise noted.
2. See "STANCHION DETAILS" sheets for material thickness and specification.
3. See "STANCHION DETAILS" sheets for unspecified hole diameters.
4. If no radius is specified, assume the line segment between points is straight.
5. For atypical tall stanchions, the centerpoint of hole is translated in the x direction only and intersects the centerline of the atypical tall stanchion.
6. * denotes that x-coordinate is variable and y-coordinate is constant.
7. See "GUARD WITH HANDRAIL DETAILS No. 2" sheet for short stanchion plate at handrail.
8. All coordinates denoted as "0, 0" are the equal to the stanchion work point, see "STANCHION DETAILS" sheets.
9. Hole for stainless steel screw, see "STANCHION DETAILS" sheet.
10. 1/2" ø hole for guard infill cable, see "GUARD DETAILS No. 1" sheet.
11. Hole for round bar stiffener, see "STANCHION DETAILS" sheets.

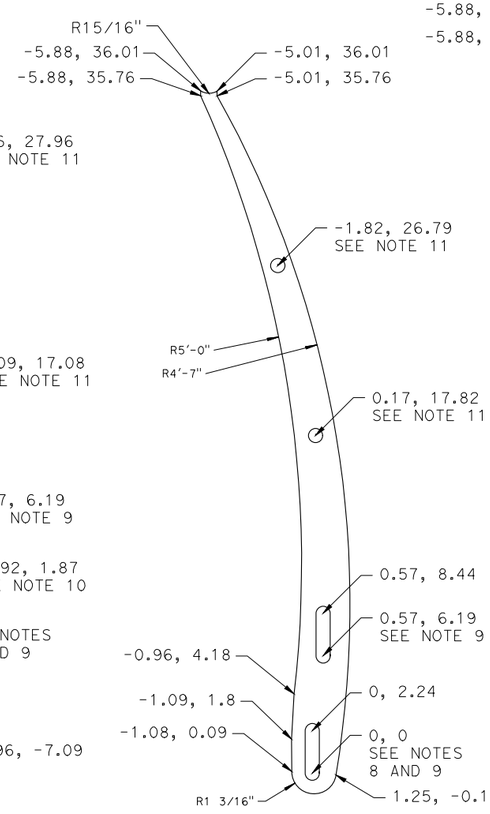
TALL STANCHION PLATE COORDINATES

TALL STANCHION #	POINT J COORDINATES	POINT K COORDINATES	STATION	NORTH OR SOUTH
Typ	0.48, 102.07	1.52, 102.22	-	BOTH
A	-6.03, 102.07	-4.99, 102.22	17+52.75	SOUTH
B	-4.62, 102.07	-3.58, 102.22	17+66.75	SOUTH
C	8.29, 102.07	9.33, 102.22	15+49.75	NORTH
D	16.19, 102.07	17.23, 102.22	15+63.75	NORTH
E	12.94, 102.07	13.98, 102.22	17+52.75	NORTH
F	4.75, 102.07	5.79, 102.22	17+66.75	NORTH

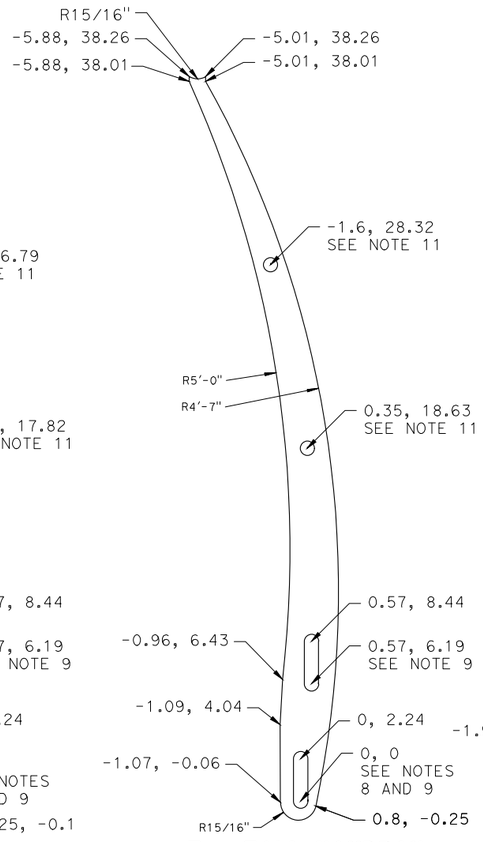


Typ SHORT STANCHION PL
SCALE: 3" = 1'-0"

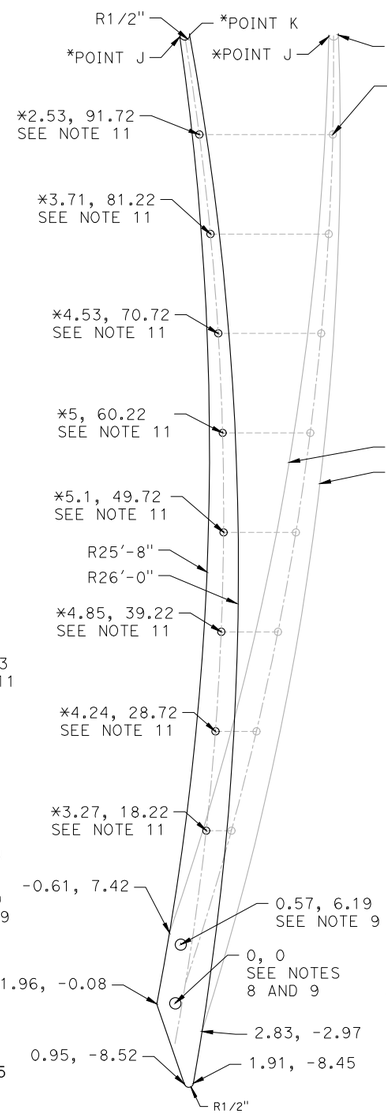
Typ SHORT STANCHION PL AT FENCING
SCALE: 3" = 1'-0"



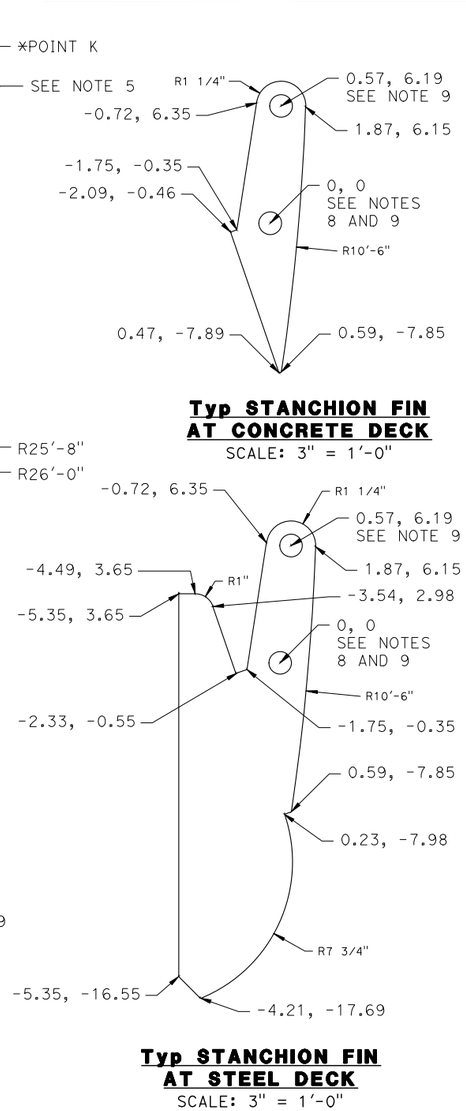
Typ SHORT HANDRAIL STANCHION PL
SCALE: 3" = 1'-0"



Typ TALL HANDRAIL STANCHION PL
SCALE: 3" = 1'-0"



Typ TALL STANCHION PL
SCALE: 1 1/2" = 1'-0"



Typ STANCHION FIN AT CONCRETE DECK
SCALE: 3" = 1'-0"

Typ STANCHION FIN AT STEEL DECK
SCALE: 3" = 1'-0"

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Darling	S. Grover
DETAILS	J. Darling	S. Grover
QUANTITIES	J. Darling	O. Tsai

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

STEVEN GROVER
PROJECT ARCHITECT

BRIDGE NO.	20-0307
POST MILES	21.5

EDWARDS AVENUE POC
STANCHION GEOMETRICS

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES			SHEET	OF
6-10-22		2-21-25 5-2-25	99	117

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	205	247

5-2-25
LICENSED ARCHITECT DATE

PLANS APPROVAL DATE

LICENSED ARCHITECT
STEVEN GROVER
No. C28814
Exp. 1/31/27
STATE OF CALIFORNIA

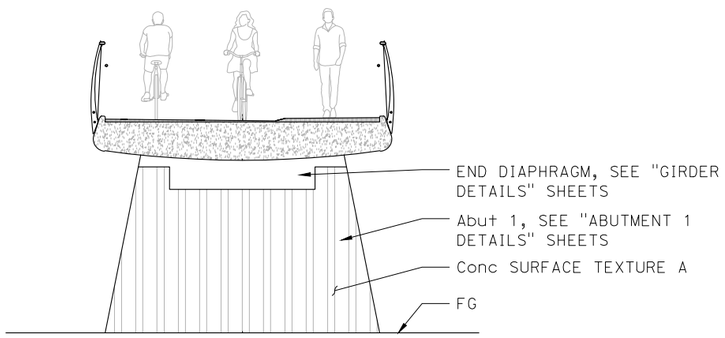
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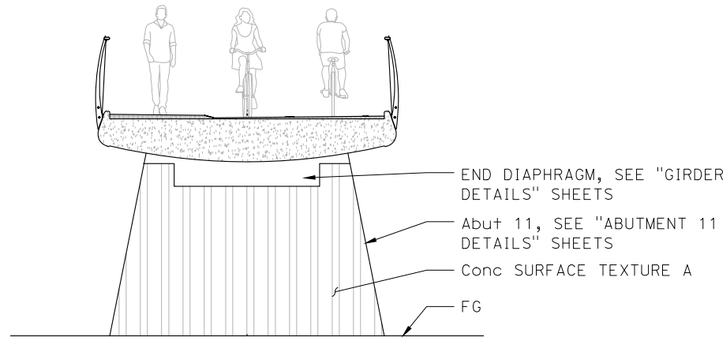
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

NOTES:

1. Vertical hatch depicting concrete surface texture on approach and abutment walls is representative and not to scale.
2. Extend concrete surface texture to 1'-0" minimum below finished grade.



Abut 1 EAST ELEVATION
SCALE: 1/4 = 1'-0"



Abut 11 WEST ELEVATION
SCALE: 1/4" = 1'-0"

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Darling	S. Grover
DETAILS	J. Darling	S. Grover
QUANTITIES	J. Darling	O. Tsai

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

STEVEN GROVER
PROJECT ARCHITECT

BRIDGE NO.	POST MILES
20-0307	21.5

EDWARDS AVENUE POC
Arch SURFACE TREATMENTS No. 1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	206	247

5-2-25
LICENSED ARCHITECT — DATE

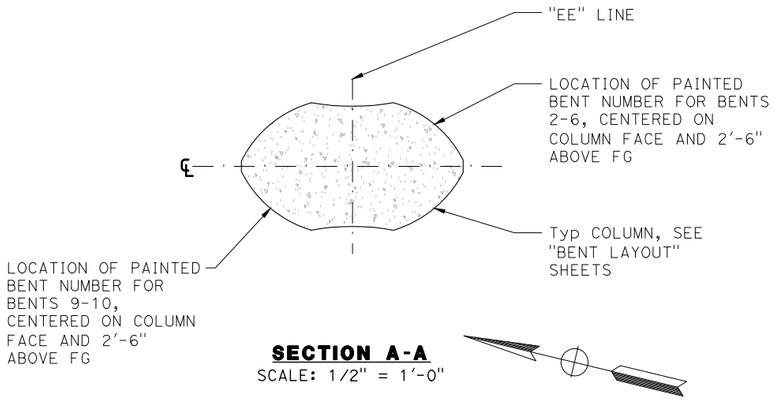
PLANS APPROVAL DATE

LICENSED ARCHITECT — STEVEN GROVER No. C28814 Exp. 1/31/27 — STATE OF CALIFORNIA

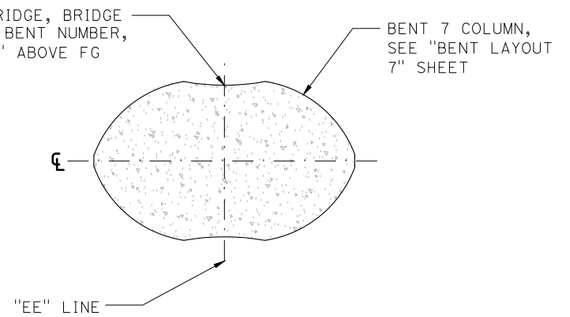
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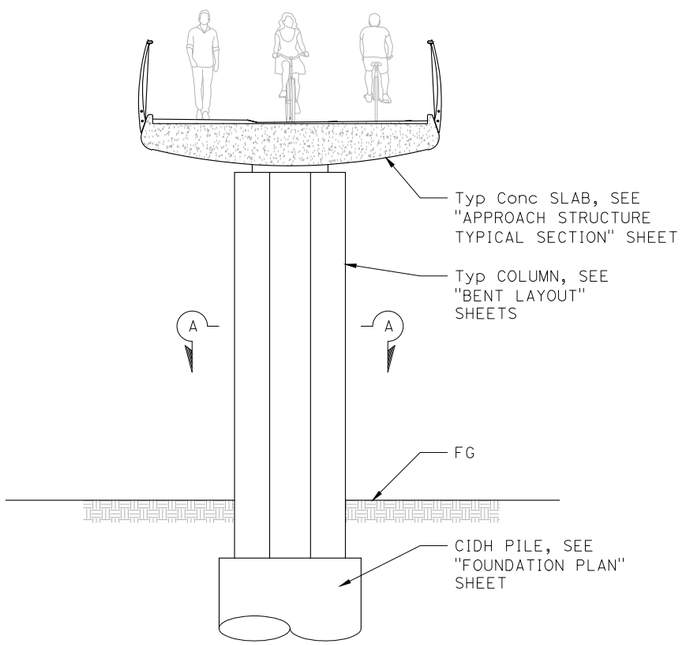
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404



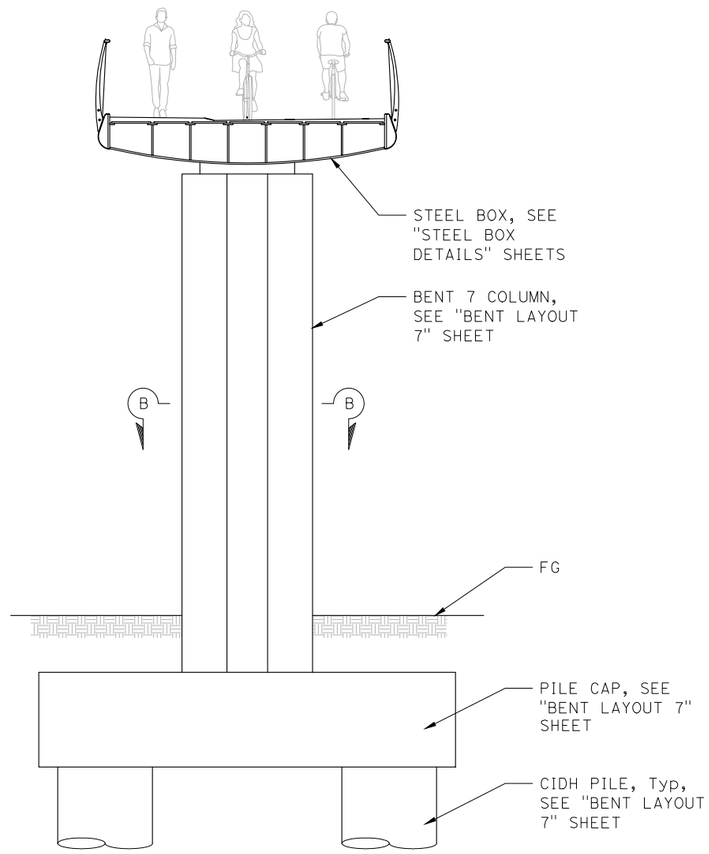
SECTION A-A
SCALE: 1/2" = 1'-0"



SECTION B-B
SCALE: 1/2" = 1'-0"



TYPICAL BENT
WEST ELEVATION
SCALE: 1/4" = 1'-0"



BENT 7
WEST ELEVATION
SCALE: 1/4" = 1'-0"

DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Darling	S. Grover
DETAILS	J. Darling	S. Grover
QUANTITIES	J. Darling	O. Tsai

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

STEVEN GROVER
PROJECT ARCHITECT

BRIDGE NO.	POST MILES
20-0307	21.5

EDWARDS AVENUE POC
Arch SURFACE TREATMENTS No. 2

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => Dec 20, 2024 TIME PLOTTED => 5:00pm
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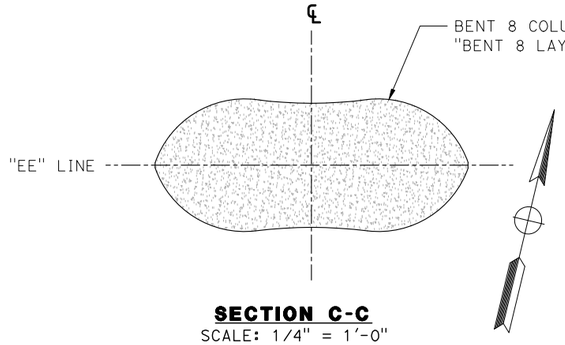
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131

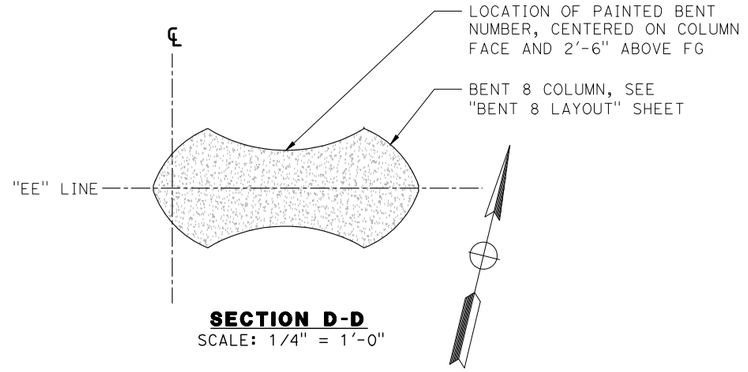
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

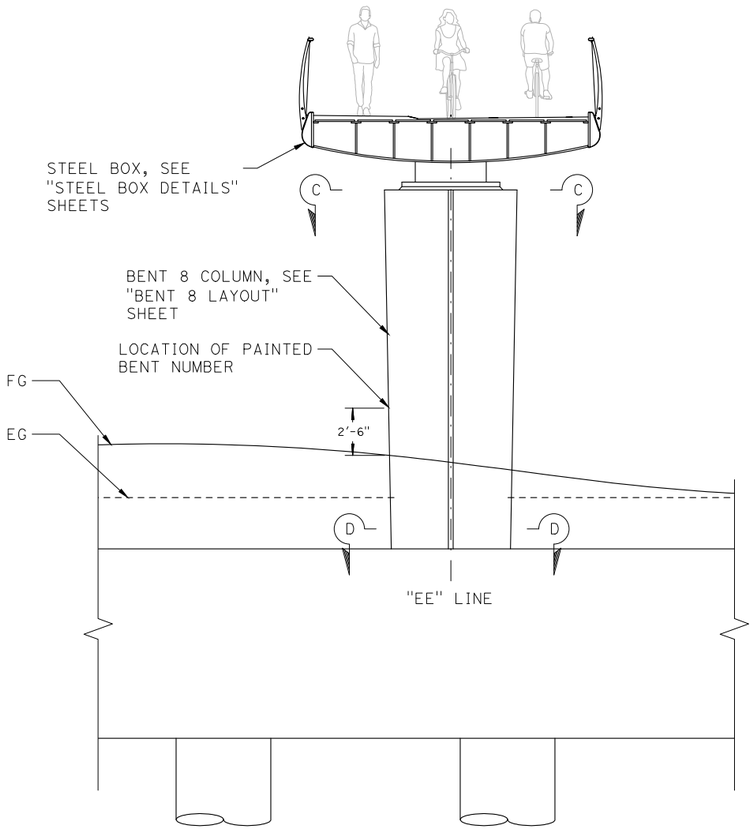
REVISION DATES				SHEET	OF
5-16-22		2-21-25	5-2-25	101	117



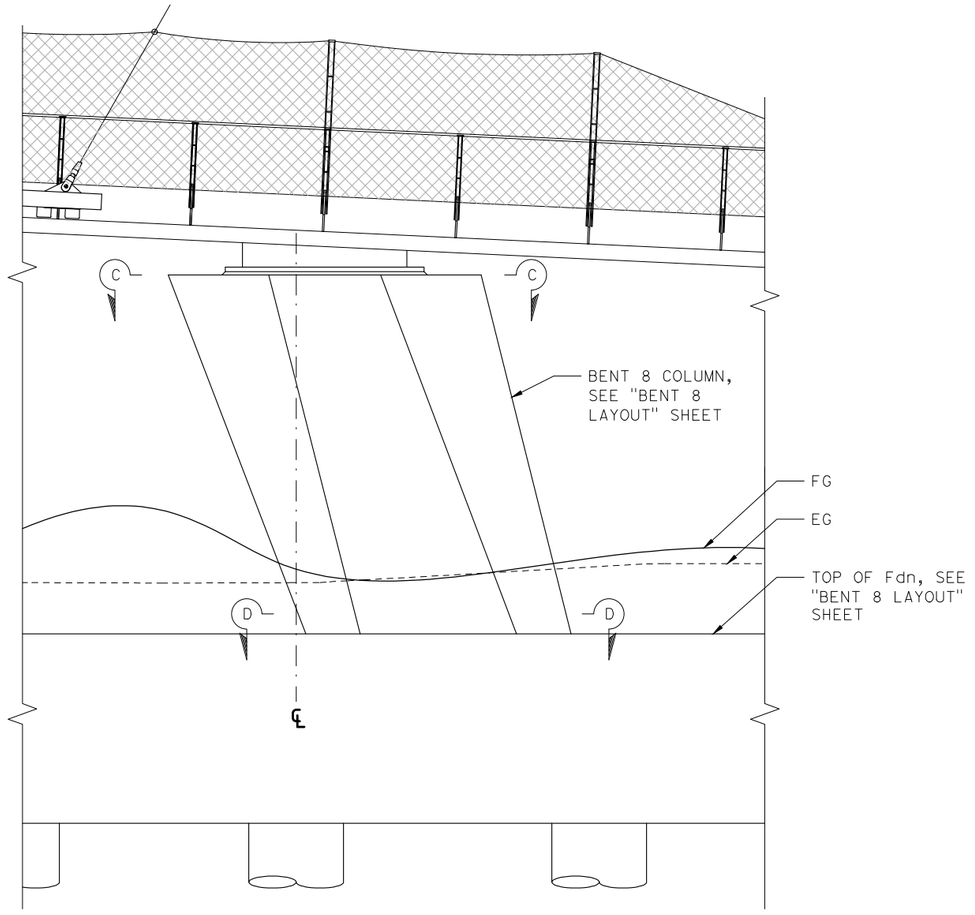
SECTION C-C
SCALE: 1/4" = 1'-0"



SECTION D-D
SCALE: 1/4" = 1'-0"



BENT 8
WEST ELEVATION
SCALE: 1/4" = 1'-0"



BENT 8
SOUTH ELEVATION
SCALE: 1/4" = 1'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	207	247

5-2-25
LICENSED ARCHITECT — DATE

LICENSED ARCHITECT
STEVEN GROVER
No. C28814
Exp. 1/31/27
STATE OF CALIFORNIA

PLANS APPROVAL DATE

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STEVEN GROVER & ASSOCIATES
800 HEINZ AVE, STUDIO 11
BERKELEY, CA 94710

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

Robert Reis
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Darling	S. Grover
DETAILS	J. Darling	S. Grover
QUANTITIES	J. Darling	O. Tsai

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

STEVEN GROVER
PROJECT ARCHITECT

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
Arch SURFACE TREATMENTS No. 3

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => Dec 20, 2024 TIME PLOTTED => 5:00pm
FILE => SR_101_ARCH Publish Set.dwg USERNAME => SGA

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
~~6-14-22~~		~~2-21-25~~	5-2-25	102	117

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	208	247

5-2-25
LICENSED ARCHITECT DATE

PLANS APPROVAL DATE

LICENSED ARCHITECT
STEVEN . GROVER
No. C28814
Exp. 1/31/27
STATE OF CALIFORNIA

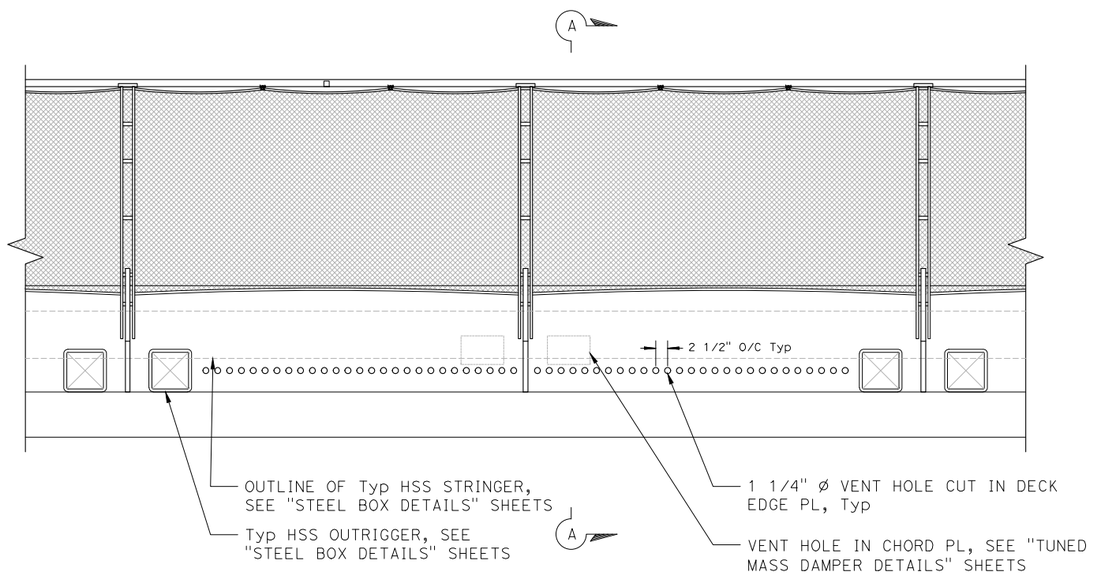
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BERKELEY, CA 94710

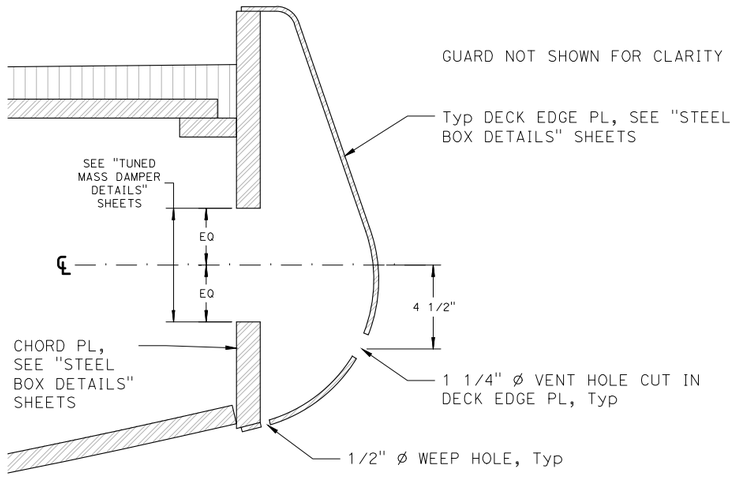
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

NOTES:

1. See "TUNED MASS DAMPER DETAILS" sheets for location of tuned mass dampers and associated vents.



ELEVATION
SCALE: 3/4" = 1'-0"



SECTION A-A
SCALE: 3" = 1'-0"

Rakesh Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

		BY	CHECKED
DESIGN		J. Darling	S. Grover
DETAILS		J. Darling	S. Grover
QUANTITIES		J. Darling	O. Tsai

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

STEVEN GROVER
PROJECT ARCHITECT

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
ARCH TMD VENT DETAILS

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => Dec 20, 2024 TIME PLOTTED => 5:00pm
FILE => SR_101_ARCH Publish Set.dwg USERNAME => SGA

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
5-19-22		2-21-25	5-2-25	103	117

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	209	247

LICENSED ARCHITECT — DATE 5-2-25

PLANS APPROVAL DATE

LICENSED ARCHITECT — STEVEN GROVER No. C28814 Exp. 1/31/27 — STATE OF CALIFORNIA

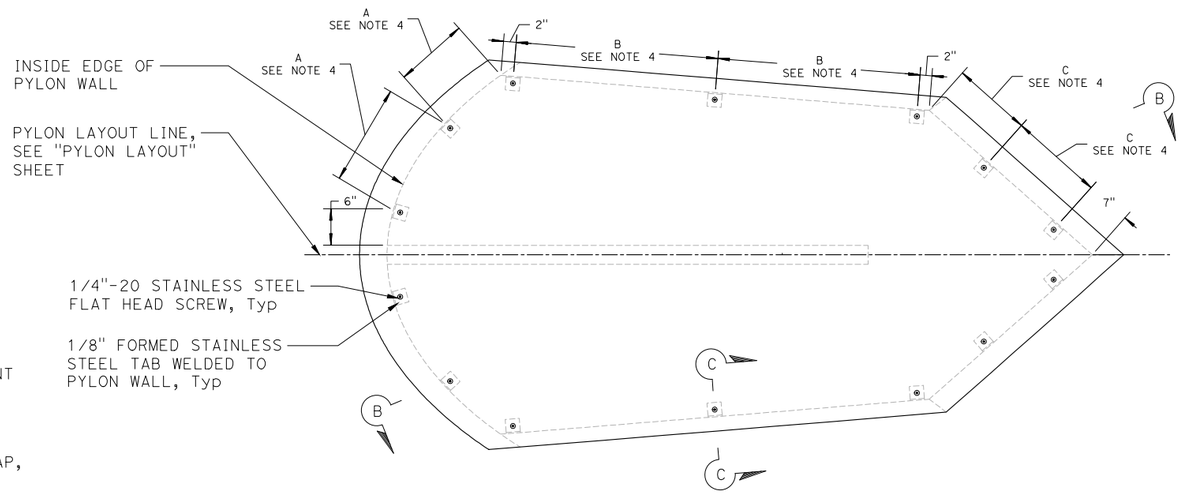
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BERKELEY, CA 94710

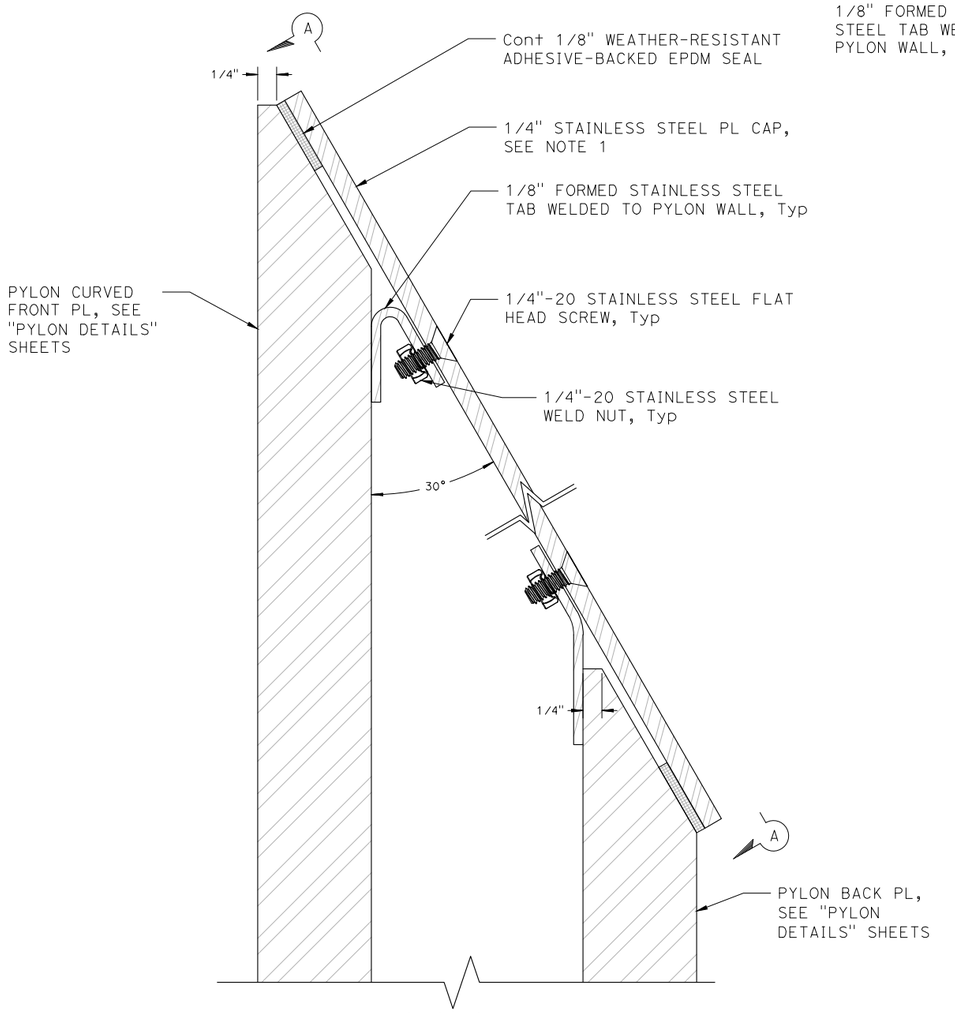
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

NOTES:

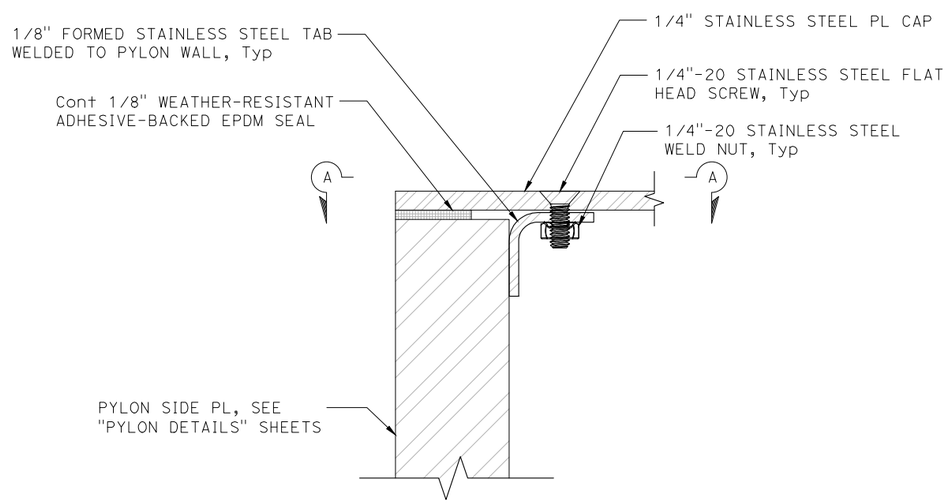
1. Finish stainless steel plate cap to match pylon finish.
2. Paint screw heads to match pylon color.
3. Define the exact overall dimensions of the 1/4" stainless steel plate cap after the fabrication of the pylon.
4. All dimensions labeled "A" are equal. All dimensions labeled "B" are equal. All dimensions labeled "C" are equal.



SECTION A-A
TOP OF PYLON
ORTHOGONAL PLAN
SCALE: 1 1/2" = 1'-0"



SECTION B-B
SCALE: 1'-0" = 1'-0"



SECTION C-C
SCALE: 1'-0" = 1'-0"

Kaleen Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Darling	S. Grover
DETAILS	J. Darling	S. Grover
QUANTITIES	J. Darling	O. Tsai

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

STEVEN GROVER
PROJECT ARCHITECT

BRIDGE NO.	20-0307
POST MILES	21.5

EDWARDS AVENUE POC
Arch PYLON DETAILS No. 1

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => Dec 20, 2024 TIME PLOTTED => 5:00pm
FILE => SR_101_ARCH Publish Set.dwg USERNAME => SGA

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
6-14-22		2-21-25	5-2-25	104	117

NOTES:

1. Finish steel access panel to match pylon finish.
2. Paint screw heads to match pylon color.
3. See "PYLON DETAILS" sheets for details and dimensions not shown.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	210	247

5-2-25
LICENSED ARCHITECT — DATE

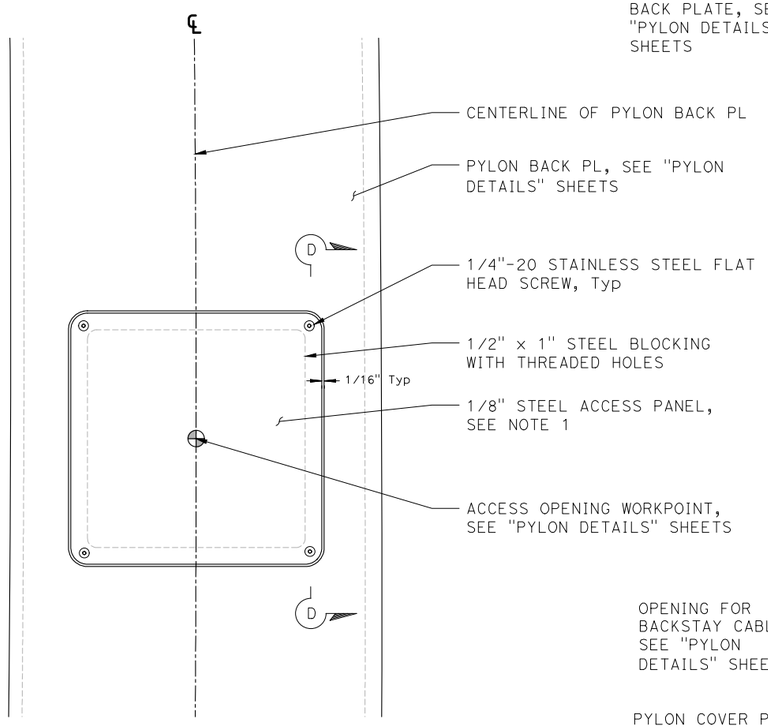
PLANS APPROVAL DATE

LICENSED ARCHITECT
STEVEN GROVER
No. C28814
Exp. 1/31/27
STATE OF CALIFORNIA

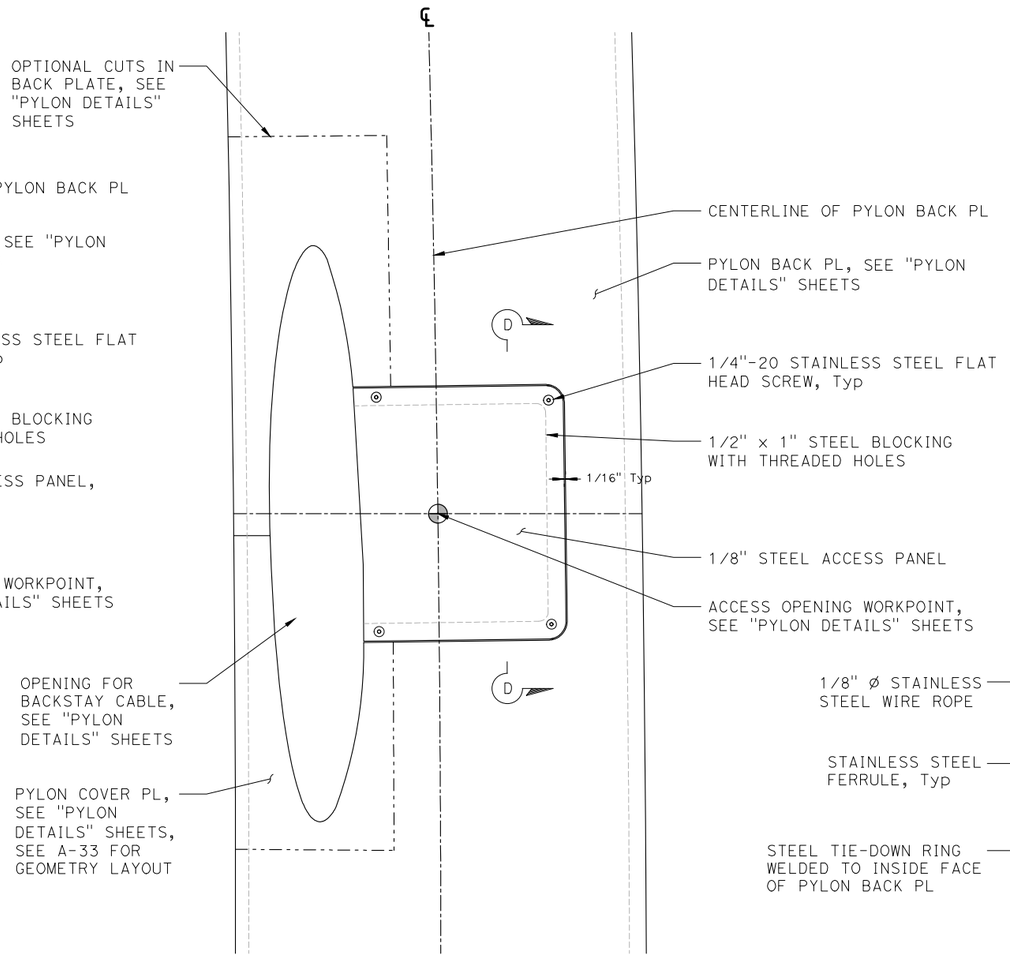
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BERKELEY, CA 94710

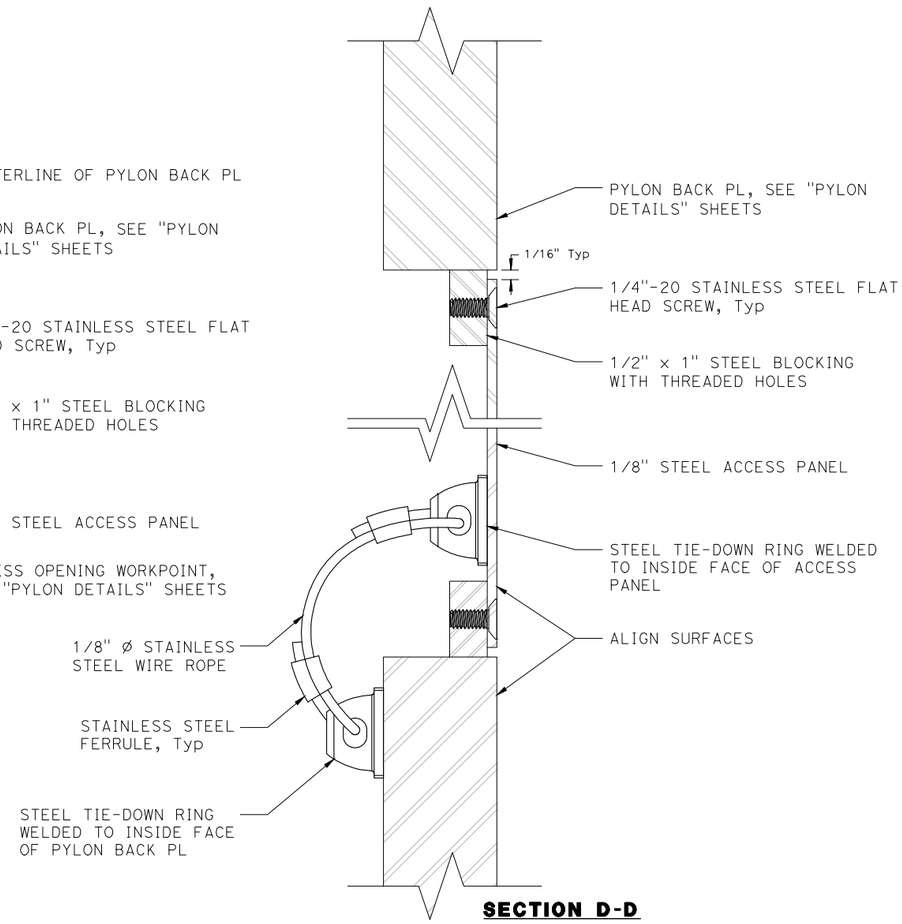
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404



Typ ACCESS PANEL
SCALE: 3" = 1'-0"



Typ ACCESS PANEL WITH BACKSTAY OPENING
SCALE: 3" = 1'-0"



SECTION D-D
SCALE: 1'-0" = 1'-0"

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Darling	S. Grover
DETAILS	J. Darling	S. Grover
QUANTITIES	J. Darling	O. Tsai

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

STEVEN GROVER
PROJECT ARCHITECT

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
Arch PYLON DETAILS No. 2

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

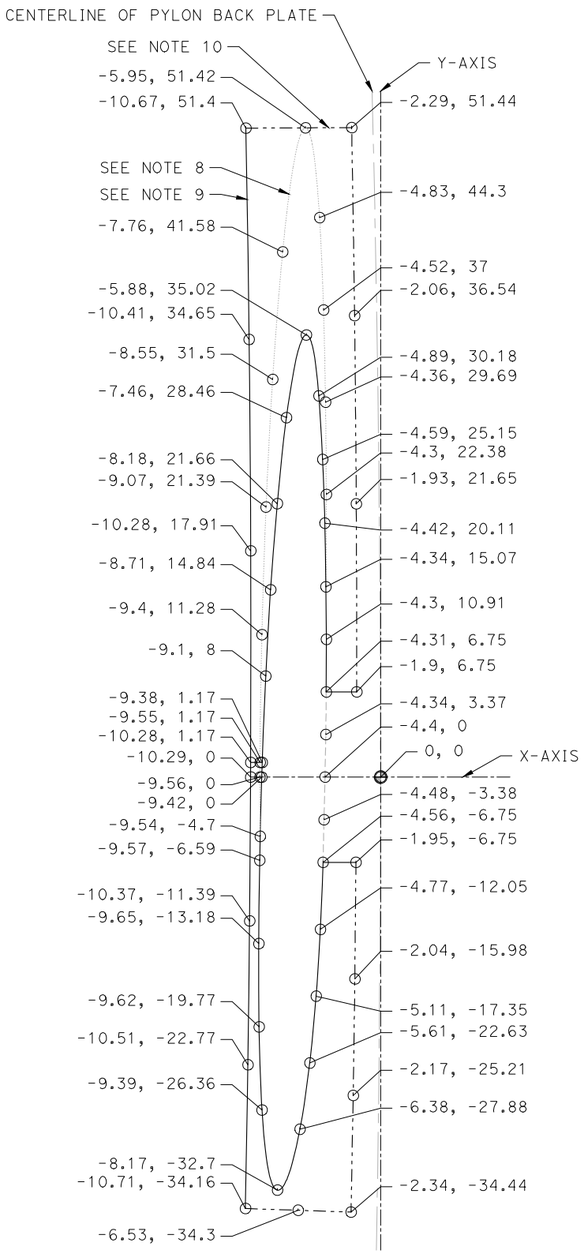
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

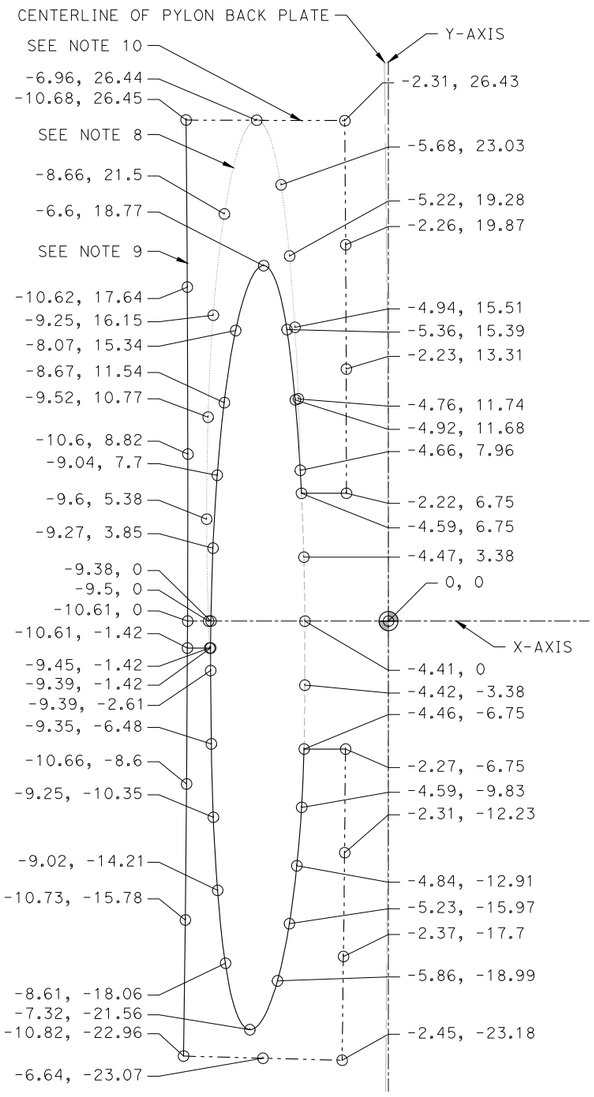
PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES: 6-18-22 | 2-21-25 | 5-2-25

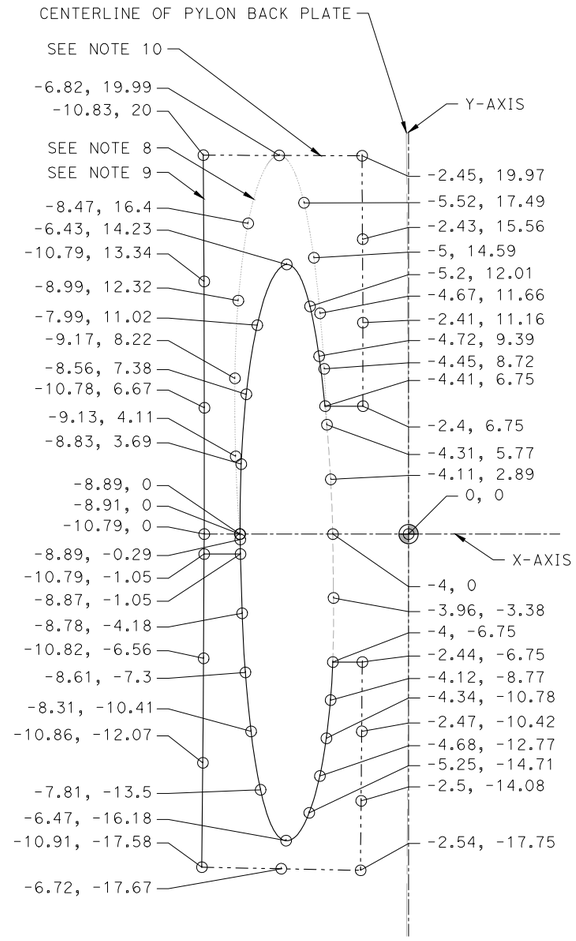
SHEET 105 OF 117



PYLON COVER PLATE BS3S
SCALE: 2" = 1'-0"



PYLON COVER PLATE BS2S
SCALE: 3" = 1'-0"



PYLON COVER PLATE BS1S
SCALE: 3" = 1'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	211	247

LICENSED ARCHITECT — DATE 5-2-25

PLANS APPROVAL DATE

LICENSED ARCHITECT — STEVEN GROVER No. C28814 Exp. 1/31/27 — STATE OF CALIFORNIA

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BERKELEY, CA 94710

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

Notes:

1. All drawings are flattened geometry of the outside face of the pylon back plate.
2. All coordinates are given in inches, unless otherwise noted.
3. All 0, 0 points are the access panel workpoints as defined in the "PYLON DETAILS" sheets.
4. The y-axis is tangent to the centerline of the pylon back plate at the access panel workpoint.
5. The x-axis is perpendicular to the y-axis at the access panel workpoint.
6. See "PYLON DETAILS" sheets for material thickness and specification.
7. BS1N, BS2N, AND BS3N are symmetrically mirrored variants of BS1S, BS2S, and BS3S respectively.
8. Line represents the limits of the boolean intersection with the inside face of the pylon back plate.
9. Line represents through cuts in the pylon back plate.
10. Line represents optional cuts in the pylon back plate, see "PYLON DETAILS" sheets.

DESIGN OVERSIGHT 5/16/25 — SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Darling	S. Grover
DETAILS	J. Darling	S. Grover
QUANTITIES	J. Darling	O. Tsai

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

STEVEN GROVER, PROJECT ARCHITECT

BRIDGE NO. 20-0307 — POST MILES 21.5

EDWARDS AVENUE POC
Arch PYLON DETAILS No. 3

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	212	247

5-2-25
LICENSED ARCHITECT — DATE

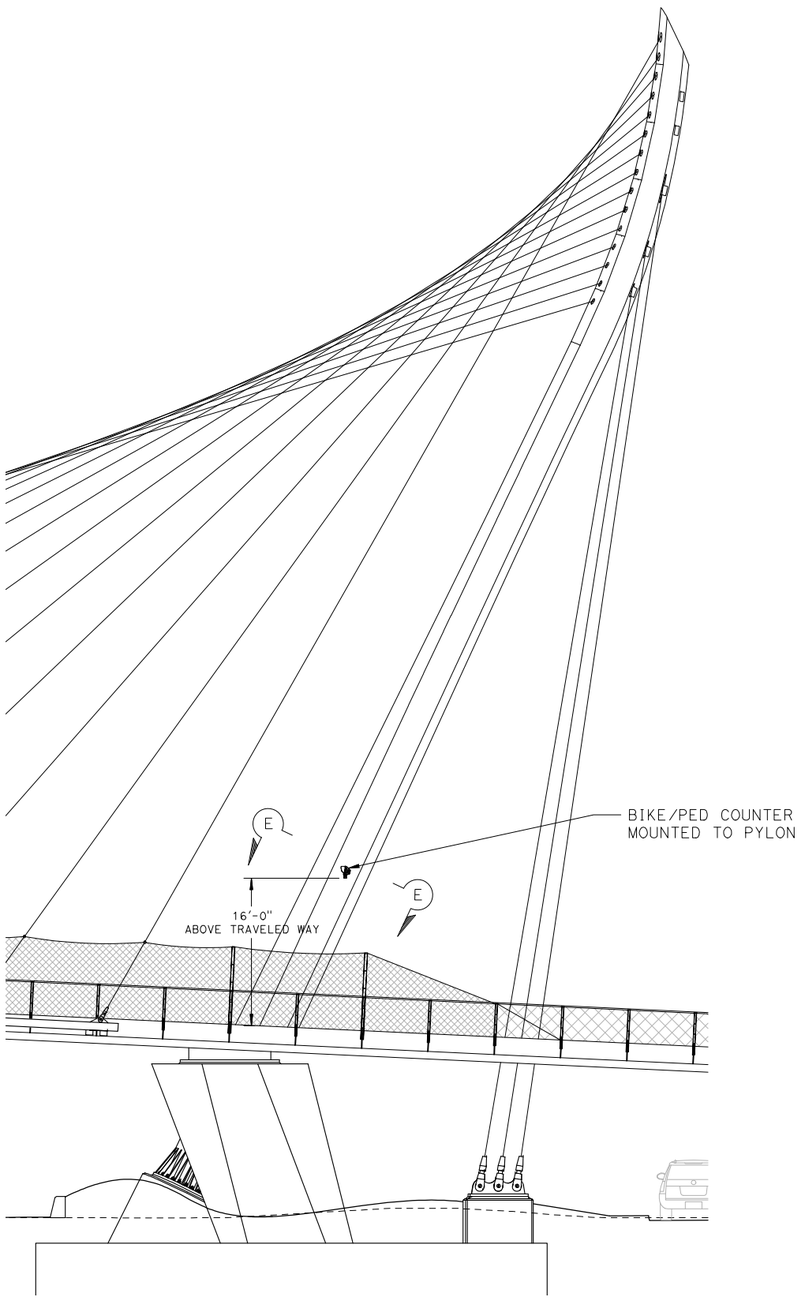
PLANS APPROVAL DATE

LICENSED ARCHITECT
STEVEN J. GROVER
No. C28814
Exp. 1/31/27
STATE OF CALIFORNIA

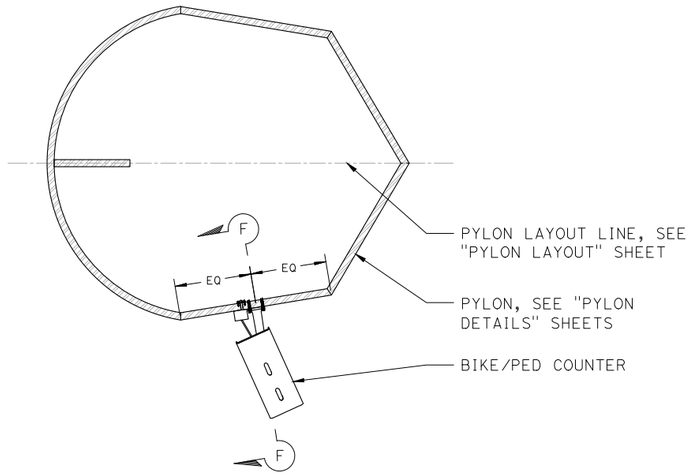
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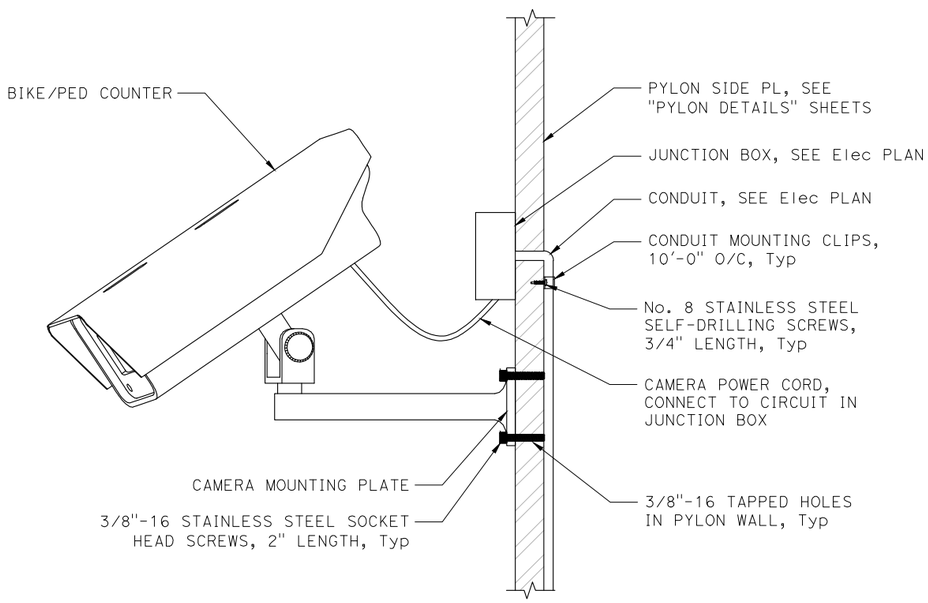
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404



SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



SECTION E-E
SCALE: 3/4" = 1'-0"



SECTION F-F
SCALE: 1 1/2" = 1'-0"

Rakesh Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Darling	S. Grover
DETAILS	J. Darling	S. Grover
QUANTITIES	J. Darling	O. Tsai

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

STEVEN GROVER
PROJECT ARCHITECT

BRIDGE NO.	POST MILES
20-0307	21.5

EDWARDS AVENUE POC
Arch PYLON DETAILS No. 4

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

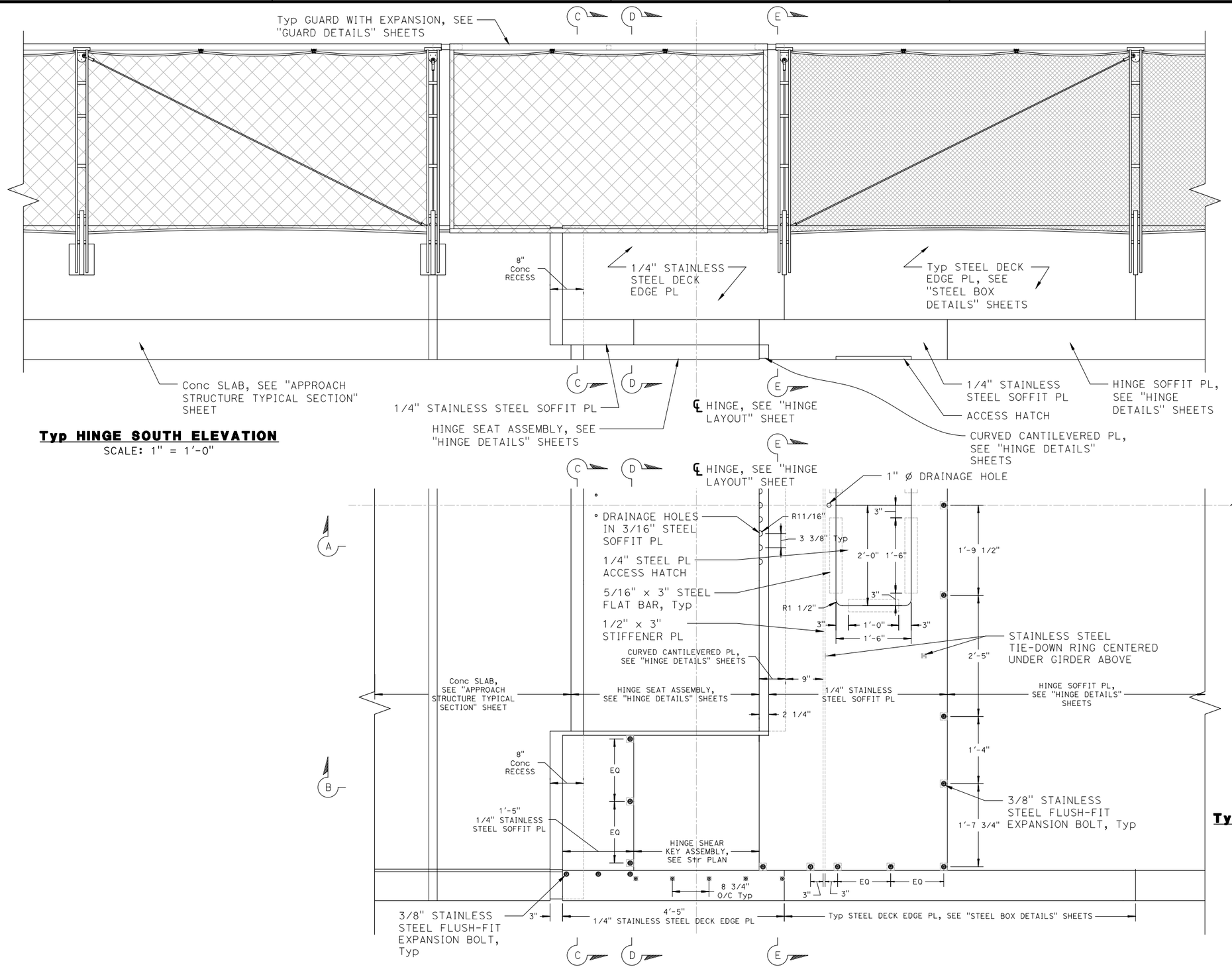
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
6-19-22		2-21-25	5-2-25	107	117



Typ HINGE SOUTH ELEVATION
SCALE: 1" = 1'-0"

Typ HINGE REFLECTED SOFFIT PLAN (SOUTHERN HALF)
SCALE: 1" = 1'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	213	247

LICENSED ARCHITECT — 5-2-25 DATE

PLANS APPROVAL DATE

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LICENSED ARCHITECT — STEVEN GROVER No. C28814 Exp. 1/31/27 — STATE OF CALIFORNIA

STEVEN GROVER & ASSOCIATES
800 HEINZ AVE, STUDIO 11
BERKELEY, CA 94710

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

NOTES:

1. The northern half of the reflected soffit plan is symmetrically mirrored about the "EE" line.
2. Finish all exposed faces of hinge components similar to the exposed faces of the adjacent steel deck.
3. See "HINGE DETAILS" sheets for details not shown.

DESIGN OVERSIGHT — 5/16/25 SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Darling	S. Grover
DETAILS	J. Darling	S. Grover
QUANTITIES	J. Darling	O. Tsai

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

STEVEN GROVER — PROJECT ARCHITECT

BRIDGE NO.	20-0307
POST MILES	21.5

EDWARDS AVENUE POC
Arch HINGE DETAILS No. 1

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => Dec 20, 2024 TIME PLOTTED => 5:00pm
FILE => SR_101_ARCH Publish Set.dwg USERNAME => SGA

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131

COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
6-14-22		2-21-25	5-2-25	108	117

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	214	247

5-2-25
LICENSED ARCHITECT — DATE

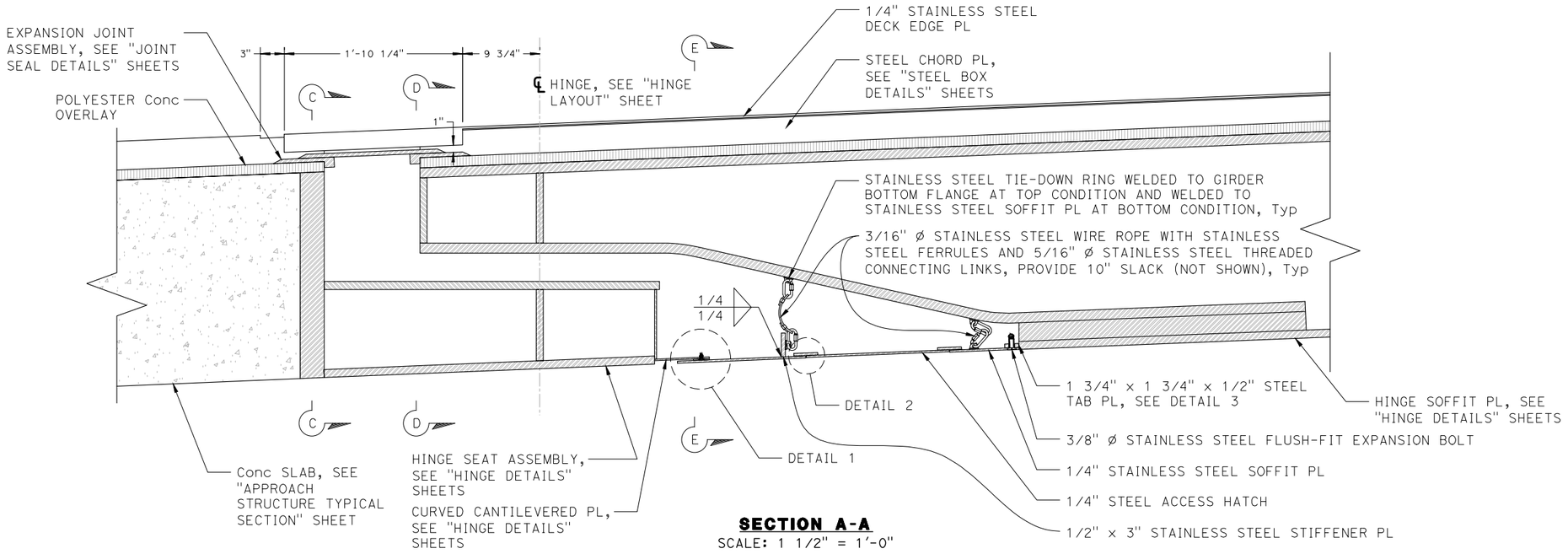
LICENSED ARCHITECT
STEVEN GROVER
No. C28814
Exp. 1/31/27
STATE OF CALIFORNIA

PLANS APPROVAL DATE

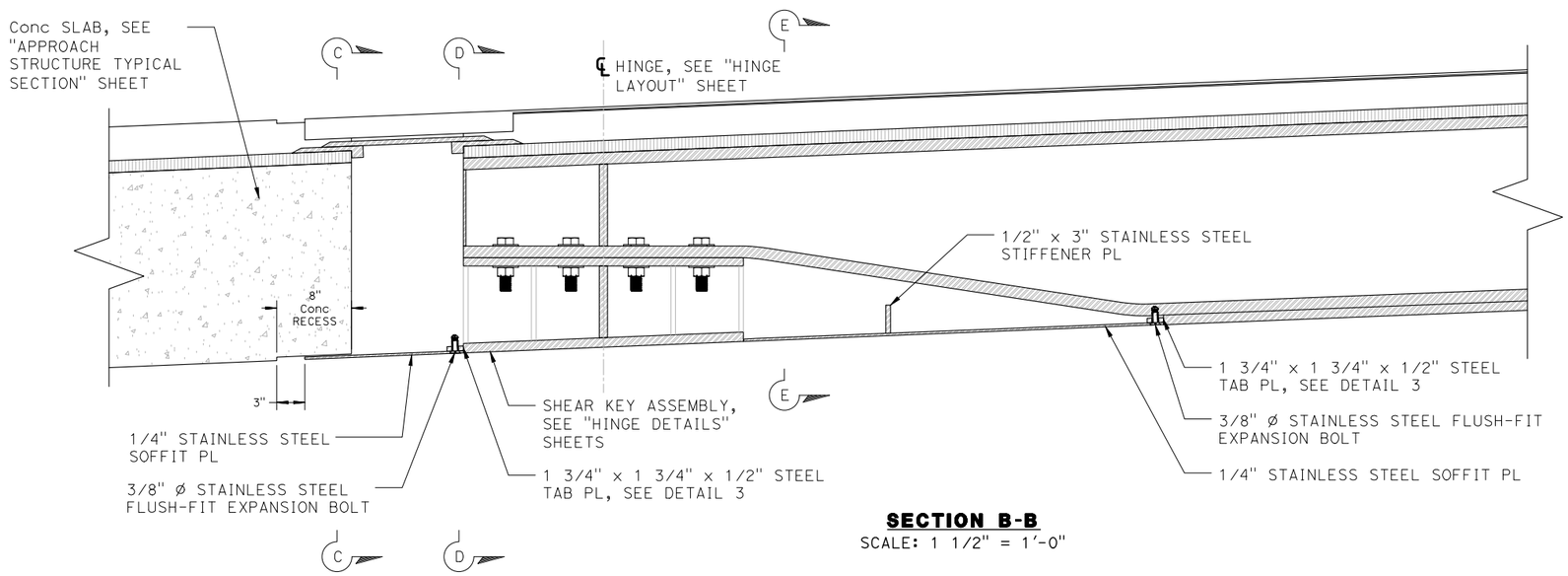
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BERKELEY, CA 94710

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404



SECTION A-A
SCALE: 1 1/2" = 1'-0"



SECTION B-B
SCALE: 1 1/2" = 1'-0"

NOTES:

1. See "HINGE DETAILS" sheets for details not shown.

Robert Reo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Darling	S. Grover
DETAILS	J. Darling	S. Grover
QUANTITIES	J. Darling	O. Tsai

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

STEVEN GROVER
PROJECT ARCHITECT

BRIDGE NO.	20-0307
POST MILES	21.5

EDWARDS AVENUE POC
Arch HINGE DETAILS No. 2

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

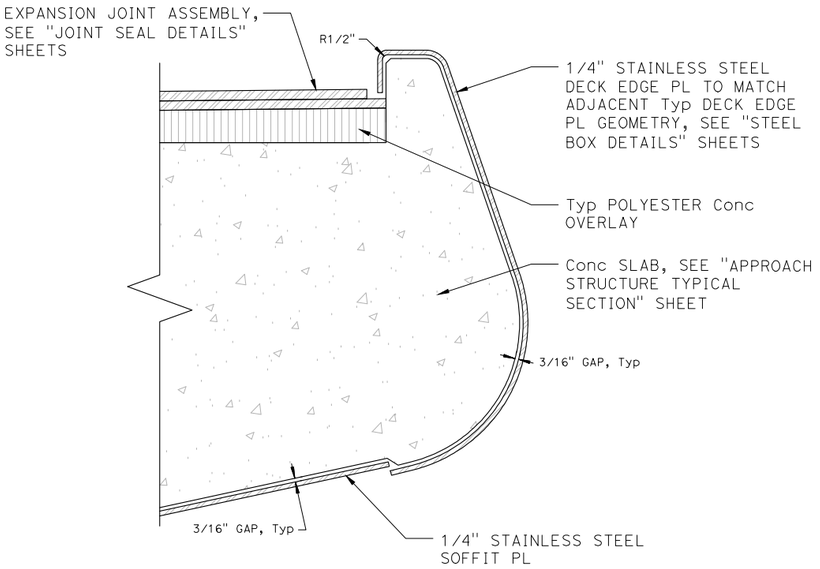
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

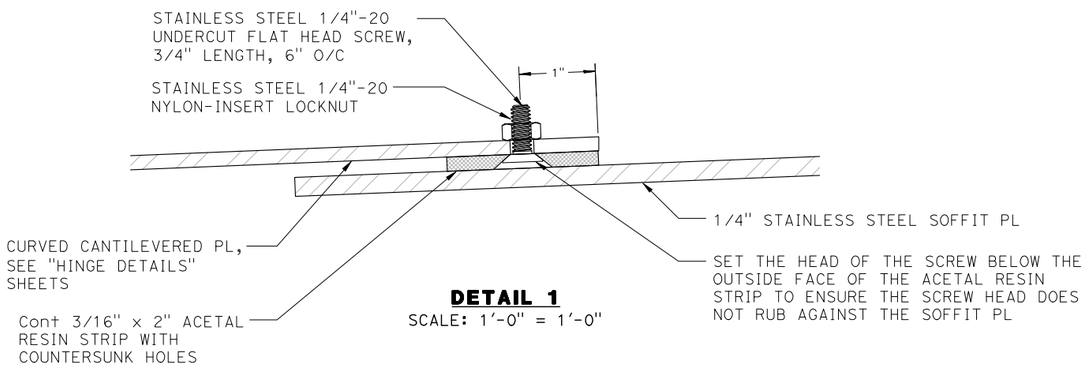
PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES: 6-14-22 | 2-21-25 | 5-2-25

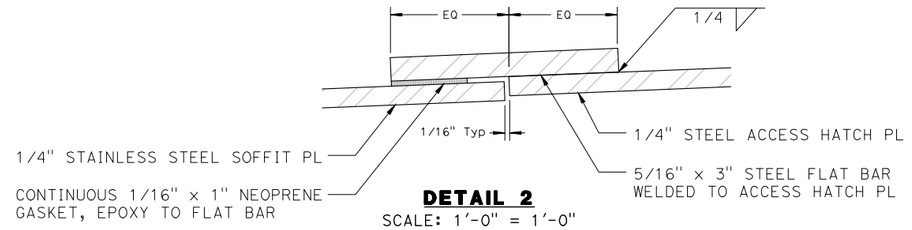
SHEET 109 OF 117



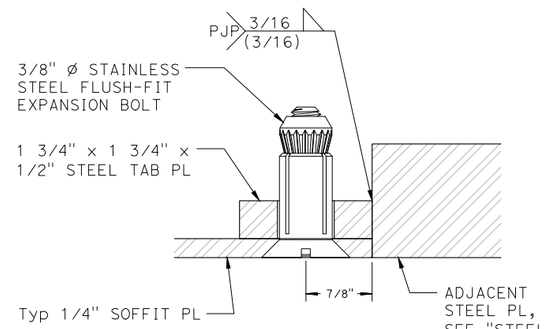
SECTION C-C
SCALE: 3" = 1'-0"



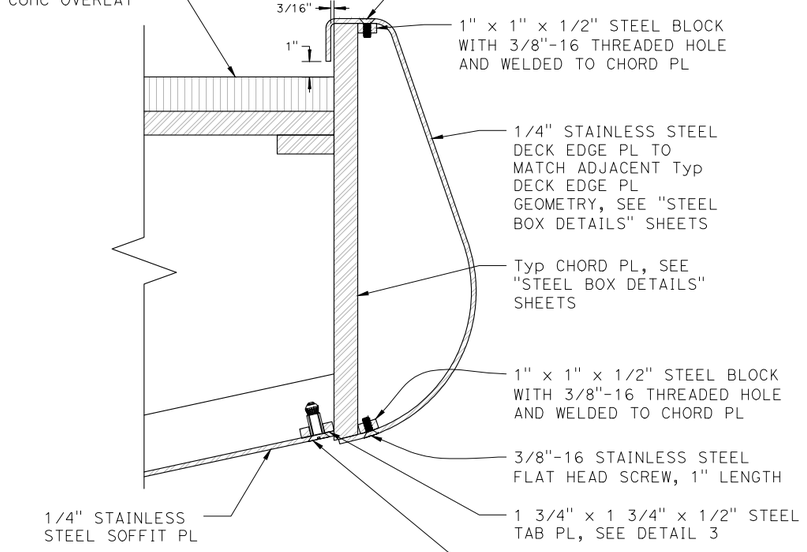
DETAIL 1
SCALE: 1'-0" = 1'-0"



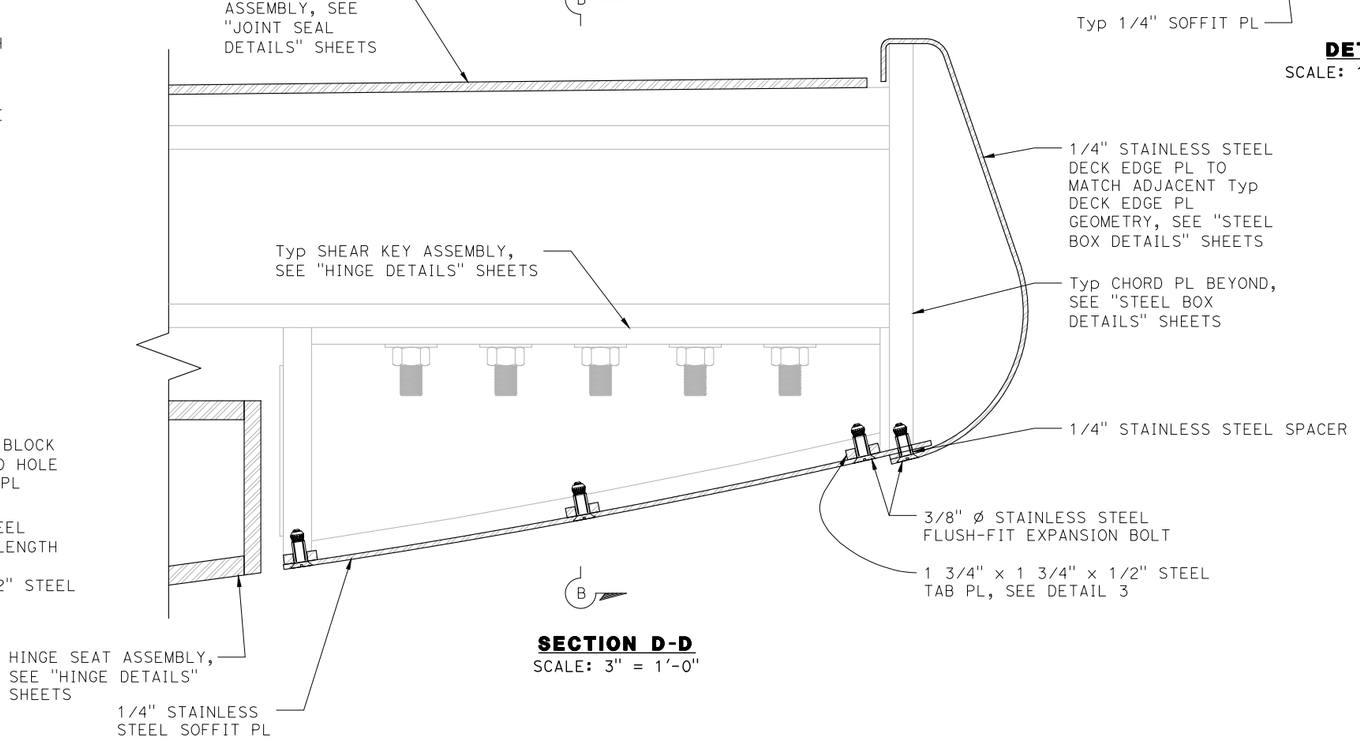
DETAIL 2
SCALE: 1'-0" = 1'-0"



DETAIL 3
SCALE: 1'-0" = 1'-0"



SECTION E-E
SCALE: 3" = 1'-0"



SECTION D-D
SCALE: 3" = 1'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	215	247

5-2-25
LICENSED ARCHITECT — DATE

LICENSED ARCHITECT — STEVEN J. GROVER No. C28814 Exp. 1/31/27 — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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STEVEN GROVER & ASSOCIATES
800 HEINZ AVE, STUDIO 11
BERKELEY, CA 94710

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Darling	S. Grover
DETAILS	J. Darling	S. Grover
QUANTITIES	J. Darling	O. Tsai

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

STEVEN GROVER
PROJECT ARCHITECT

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
Arch HINGE DETAILS No. 3

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

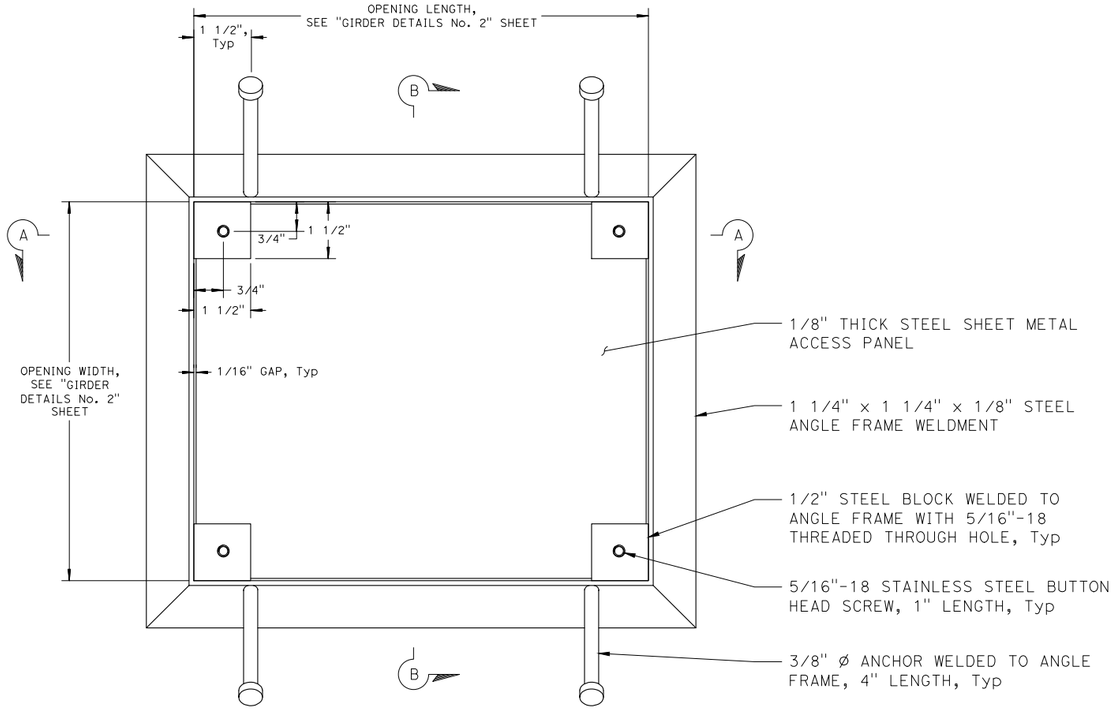
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

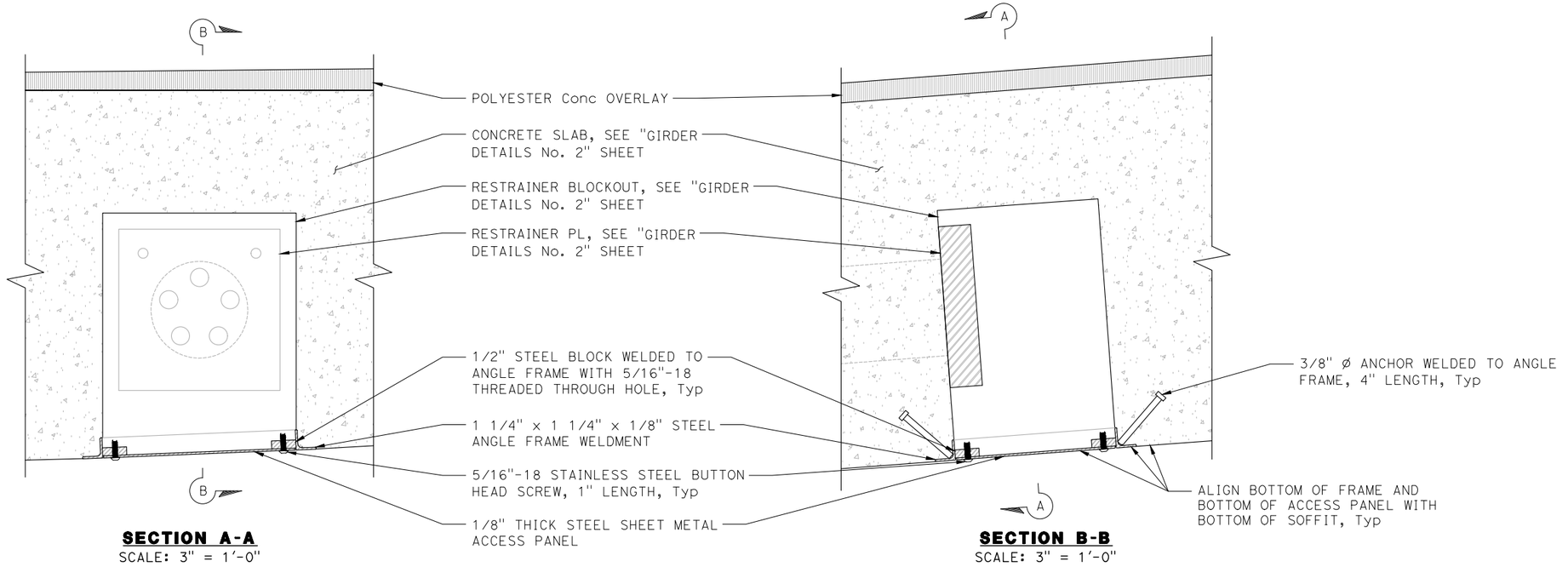
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
6-18-24		2-21-25	5-2-25	110	117



RESTRAINER ACCESS PANEL ISOLATED TOP VIEW

SCALE: 6" = 1'-0"



SECTION A-A

SCALE: 3" = 1'-0"

SECTION B-B

SCALE: 3" = 1'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	216	247

LICENSED ARCHITECT — DATE: 5-2-25

PLANS APPROVAL DATE

LICENSED ARCHITECT — STEVEN GROVER No. C28814 Exp. 1/31/27 — STATE OF CALIFORNIA

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800 HEINZ AVE, STUDIO 11
BERKELEY, CA 94710

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

NOTES:

1. Finish all exposed faces similar to the exposed faces of the adjacent steel box.

Robert Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Darling	S. Grover
DETAILS	J. Darling	S. Grover
QUANTITIES	J. Darling	O. Tsai

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

STEVEN GROVER
PROJECT ARCHITECT

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
ARCH RESTRAINER BLOCKOUT DETAILS

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => Dec 20, 2024 TIME PLOTTED => 5:00pm
FILE => SR_101_ARCH Publish Set.dwg USERNAME => SGA

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
6-14-22		2-21-25	5-2-25	111	117

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	217	247

5-2-25
LICENSED ARCHITECT — DATE

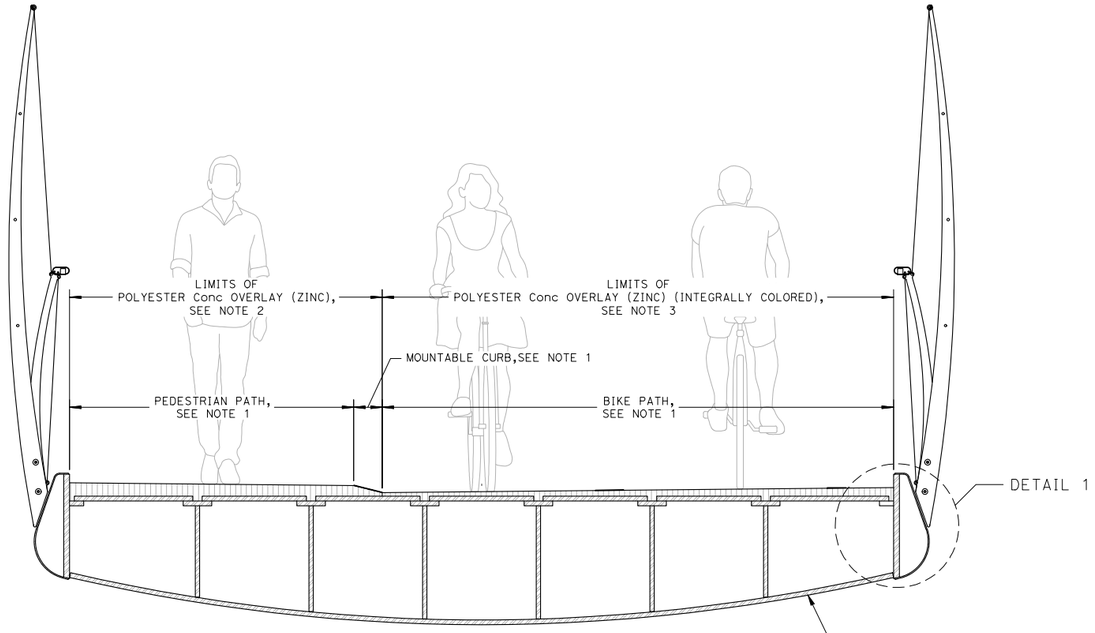
PLANS APPROVAL DATE

LICENSED ARCHITECT
STEVEN GROVER
No. C28814
Exp. 1/31/27
STATE OF CALIFORNIA

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STEVEN GROVER & ASSOCIATES
800 HEINZ AVE, STUDIO 11
BERKELEY, CA 94710

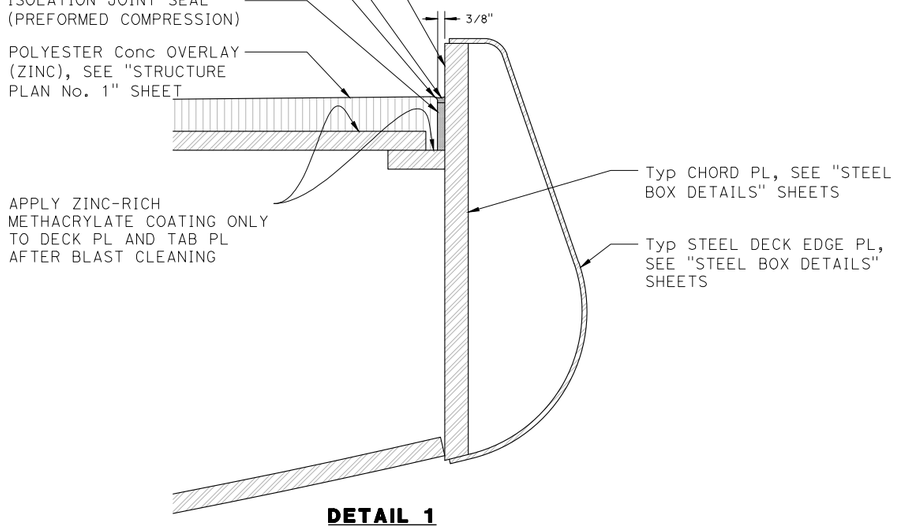
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404



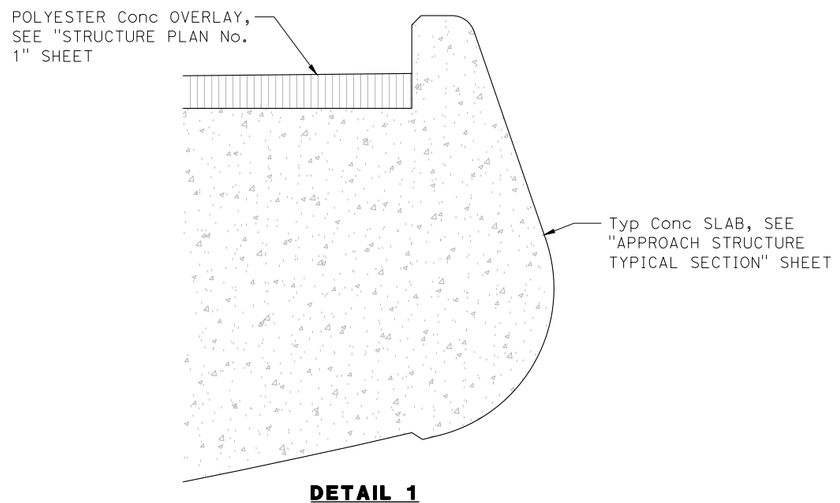
POLYESTER Conc OVERLAY LAYOUT
Typ SECTION
SCALE: 3/4" = 1'-0"

NOTES:

1. See "PRINCIPAL SPAN TYPICAL SECTION" sheet and "APPROACH STRUCTURE TYPICAL SECTION" sheet for details and dimensions not shown.
2. For concrete slab, use "POLYESTER Conc OVERLAY".
3. For concrete slab, use "POLYESTER Conc OVERLAY (INTEGRALLY COLORED)".



DETAIL 1
STEEL BOX SECTION
SCALE: 3/4" = 1'-0"



DETAIL 1
Conc SLAB SECTION
SCALE: 3/4" = 1'-0"

Robert Reo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Darling	S. Grover
DETAILS	J. Darling	S. Grover
QUANTITIES	J. Darling	O. Tsai

PREPARED FOR THE STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

STEVEN GROVER
PROJECT ARCHITECT

BRIDGE NO.	POST MILES
20-0307	21.5

EDWARDS AVENUE POC
POLYESTER Conc OVERLAY DETAILS

STRUCTURES DESIGN DETAIL SHEET
(ENGLISH) (REVISION 8/16/2021)

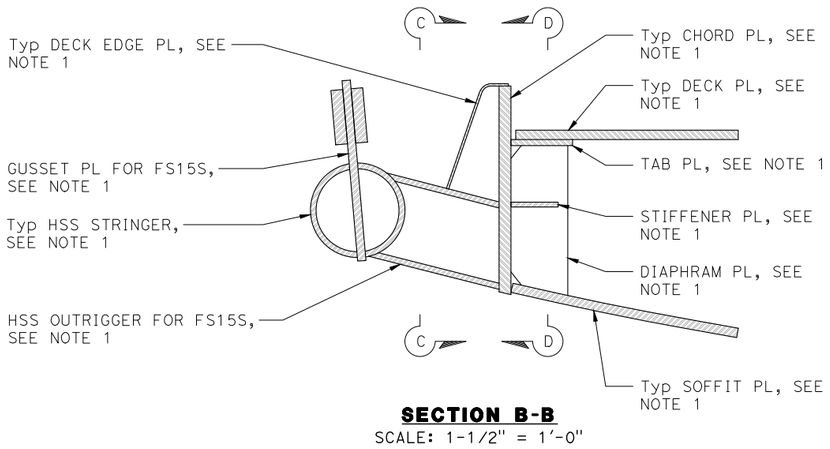
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FILE => SR_101_ARCH Publish Set.dwg USERNAME => SGA

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
6-10-22		2-21-25	5-2-25	112	117



SECTION B-B
SCALE: 1-1/2" = 1'-0"

NOTES:

1. See "STEEL BOX DETAILS" sheets for details and dimensions not shown.
2. Construct the mock-up to the same level of detail, craftsmanship, and finish quality as expected in the final construction. This includes materials, installation techniques, surface finishes, alignment, and overall appearance.
3. Use the approved mock-up as the standard for finish quality and craftsmanship throughout the length of the project.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	218	247

5-2-25
LICENSED ARCHITECT — DATE

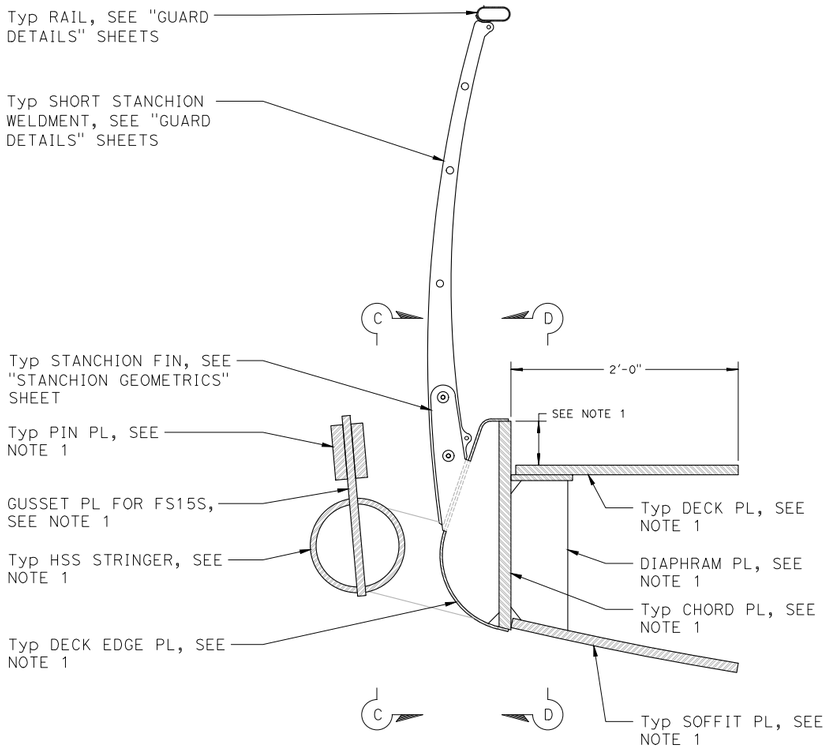
PLANS APPROVAL DATE

LICENSED ARCHITECT — STEVEN GROVER No. C28814 Exp. 1/31/27 — STATE OF CALIFORNIA

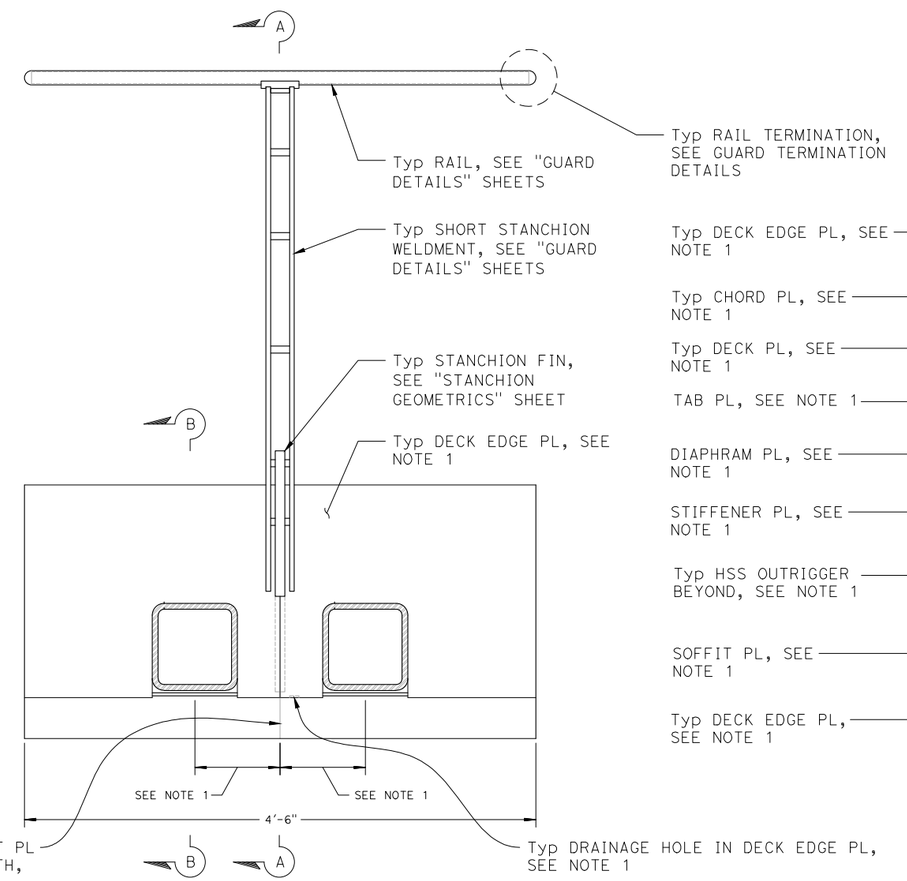
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STEVEN GROVER & ASSOCIATES
800 HEINZ AVE, STUDIO 11
BERKELEY, CA 94710

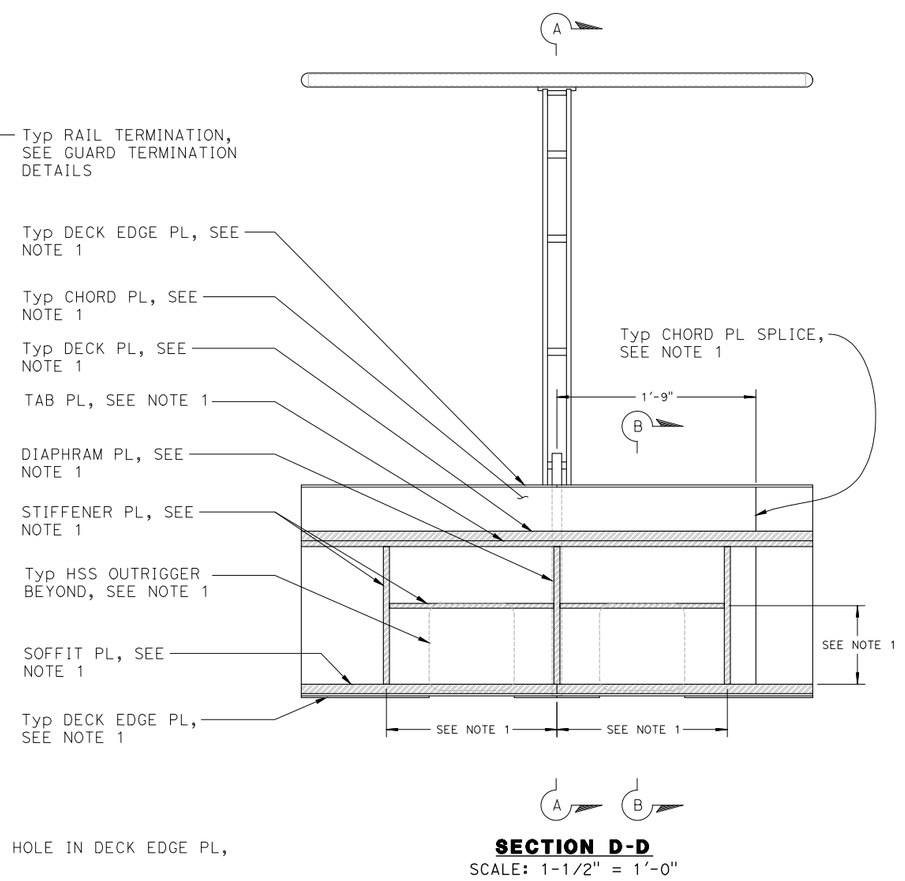
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404



SECTION A-A
SCALE: 1-1/2" = 1'-0"



SECTION C-C
SCALE: 1-1/2" = 1'-0"



SECTION D-D
SCALE: 1-1/2" = 1'-0"

Rakesh Deo
DESIGN OVERSIGHT
5/16/25
SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Darling	S. Grover
DETAILS	J. Darling	S. Grover
QUANTITIES	J. Darling	O. Tsai

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

STEVEN GROVER
PROJECT ARCHITECT

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC
STEEL DECK MOCK-UP

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => Dec 20, 2024 TIME PLOTTED => 5:00pm
FILE => SR_101_ARCH Publish Set.dwg USERNAME => SGA

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
5-19-22		2-21-25	5-2-25	113	117

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	219	247

GEOTECHNICAL PROFESSIONAL — 6-28-24 DATE

PLANS APPROVAL DATE

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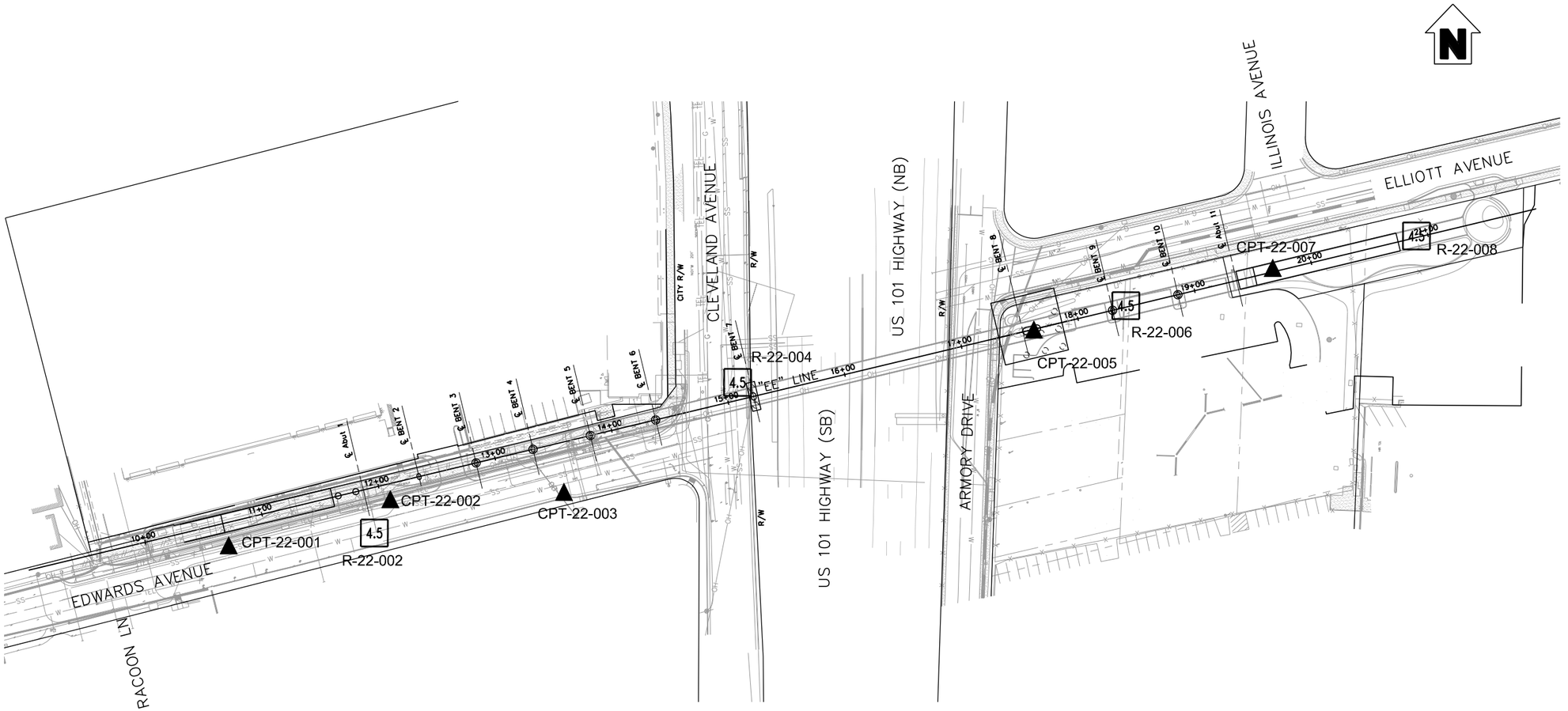
REGISTERED PROFESSIONAL ENGINEER — GARY PARIKH — No. G.E. 666 — EXP. 12/31/25 GEOTECHNICAL — STATE OF CALIFORNIA

BKF ENGINEERS
4670 WILLOW ROAD, SUITE 250
PLEASANTON, CA 94588

PARIKH CONSULTANTS, INC.
1497 N MILPITAS BLVD.
MILPITAS, CA 95035

This Test Boring Layout sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, and Presentation Manual (2022 Edition).

See 2023 Standard Plans A10F and A10G for Soil Legend and A10H for Rock legend.



PLAN
1" = 50'

LEGEND

R-22-002

[4.5] Approx. Boring (Rotary Wash) Location Drilled by PARIKH Consultants Inc.

CPT-22-001

▲ Approx. Cone Penetration Test Location Performed by PARIKH Consultants Inc.

BOREHOLE LOCATION TABLE

Hole ID	Northing	Easting	"EE" Line		
			Station	Offset (ft)	Rt/Lt
CPT-22-001	1928537.0	6353235.7	10+67	20	Rt
R-22-002	1928548.7	6353357.2	11+88	37	Rt
CPT-22-002	1928575.3	6353370.6	12+08	15	Rt
CPT-22-003	1928581.4	6353515.4	13+49	42	Rt
R-22-004	1928674.3	6353660.2	15+12	14	Lt
CPT-22-005	1928716.8	6353907.4	17+62	2	Rt
R-22-006	1928738.5	6353984.1	18+41	1	Lt
CPT-22-007	1928768.2	6354106.6	19+68	2	Lt
R-22-008	1928796.6	6354226.6	20+91	1	Lt

DESIGN OVERSIGHT — 5/16/25 SIGN OFF DATE

DRAWN BY: KIM OUYANG
CHECKED BY: JORGE TURBAY

L.S. BHANGOO & CRAIG LANGBEIN
FIELD INVESTIGATION BY:
DATE: DEC 2021 TO FEB 2022

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

JORGE TURBAY
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE PEDESTRIAN OVERCROSSING
TEST BORING LAYOUT

GS GEOTECHNICAL LOG OF TEST BORINGS SHEET (ENGLISH) (REV. 03/14/12)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0751
PROJECT NUMBER & PHASE: 0401300002131 CONTRACT NO.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
6-10-22	1-10-23	6-28-24	10-4-24	114	117

FILE => $REQUEST

USERNAME => $USER DATE PLOTTED => $DATE TIME PLOTTED => $TIME

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	220	247

GEOTECHNICAL PROFESSIONAL — 6-28-24 DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — GARY PARIKH — No. G.E. 666 — EXP. 12/31/25 — GEOTECHNICAL — STATE OF CALIFORNIA

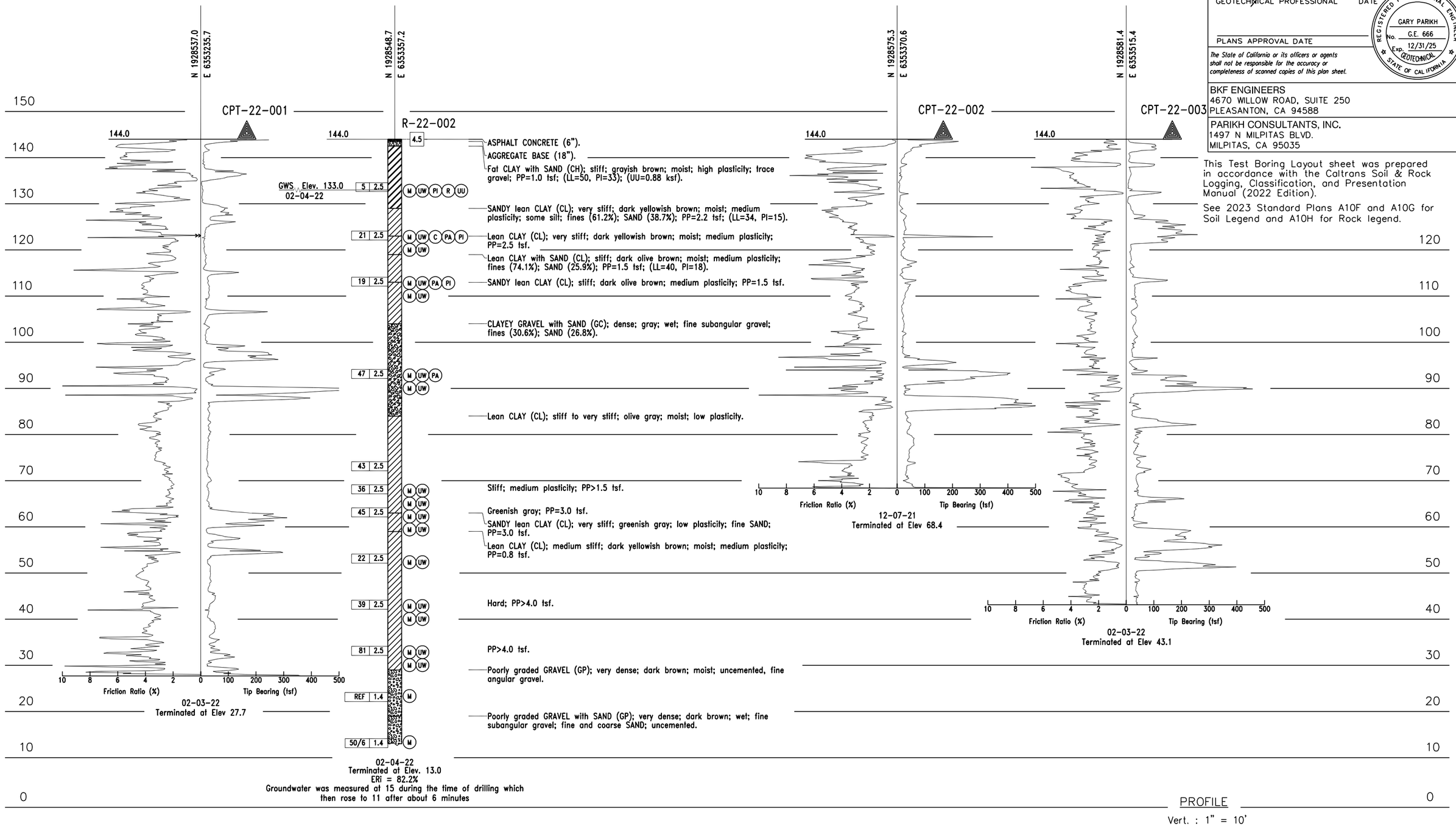
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BKF ENGINEERS
4670 WILLOW ROAD, SUITE 250
PLEASANTON, CA 94588

PARIKH CONSULTANTS, INC.
1497 N MILPITAS BLVD.
MILPITAS, CA 95035

This Test Boring Layout sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, and Presentation Manual (2022 Edition).

See 2023 Standard Plans A10F and A10G for Soil Legend and A10H for Rock legend.



PROFILE

Vert. : 1" = 10'

DESIGN OVERSIGHT 5/16/25 SIGN OFF DATE	DRAWN BY	KIM OUYANG	L.S. BHANGOO & CRAIG LANGBEIN FIELD INVESTIGATION BY: DATE: DEC 2021 TO FEB 2022	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	JORGE TURBAY PROJECT ENGINEER	BRIDGE NO. 20-0307 POST MILES 21.5	EDWARDS AVENUE PEDESTRIAN OVERCROSSING LOG OF TEST BORINGS 1 OF 3
	CHECKED BY	JORGE TURBAY					

GS GEOTECHNICAL LOG OF TEST BORINGS SHEET (ENGLISH) (REV. 03/14/12)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0751 PROJECT NUMBER & PHASE: 0401300002131 CONTRACT NO.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
6-10-22	1-10-23	6-28-24	10-4-24	115	117

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TIME PLOTTED => $TIME

DATE PLOTTED => $DATE

USERNAME => $USER

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	221	247

GEOTECHNICAL PROFESSIONAL — 6-28-24 DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — GARY PARIKH — No. G.E. 666 — EXP. 12/31/25 GEOTECHNICAL — STATE OF CALIFORNIA

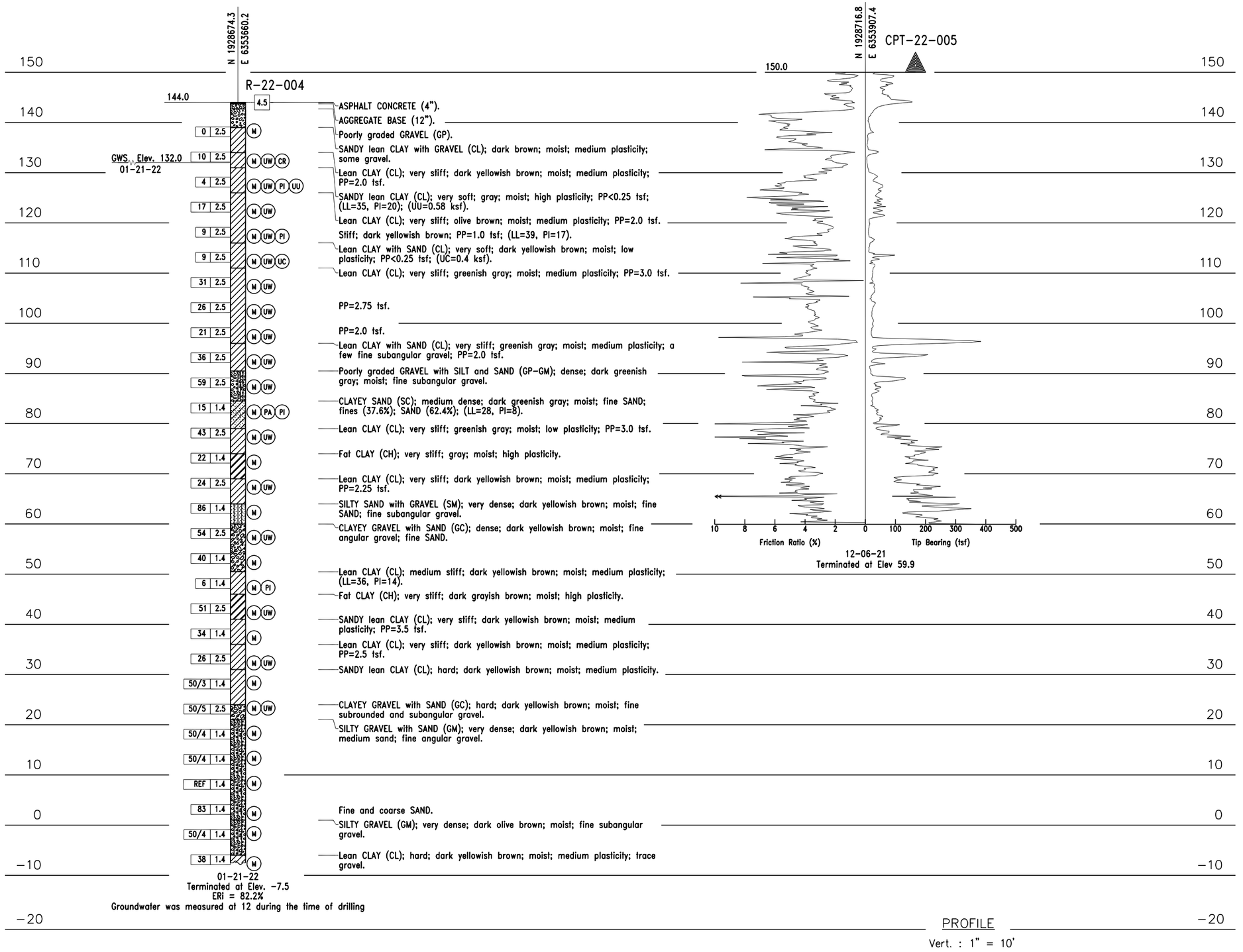
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BKF ENGINEERS
4670 WILLOW ROAD, SUITE 250
PLEASANTON, CA 94588

PARIKH CONSULTANTS, INC.
1497 N MILPITAS BLVD.
MILPITAS, CA 95035

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See 2023 Standard Plans A10F and A10G for Soil Legend and A10H for Rock legend.



DESIGN OVERSIGHT 5/16/25 SIGN OFF DATE	DRAWN BY	KIM OUYANG	L.S. BHANGOO & CRAIG LANGBEIN FIELD INVESTIGATION BY: DATE: DEC 2021 TO FEB 2022	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	JORGE TURBAY PROJECT ENGINEER	BRIDGE NO. 20-0307 POST MILES 21.5	EDWARDS AVENUE PEDESTRIAN OVERCROSSING
	CHECKED BY	JORGE TURBAY					LOG OF TEST BORINGS 2 OF 3

GS GEOTECHNICAL LOG OF TEST BORINGS SHEET (ENGLISH) (REV. 03/14/12)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0751
PROJECT NUMBER & PHASE: 0401300002131 CONTRACT NO.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
6-10-22	1-10-23	6-28-24	10-4-24	116	117

FILE => $REQUEST

TIME PLOTTED => $TIME
DATE PLOTTED => $DATE
USERNAME => $USER

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	222	247

GEOTECHNICAL PROFESSIONAL — 6-28-24 DATE

PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER — GARY PARIKH — No. G.E. 666 — Exp. 12/31/25 — GEOTECHNICAL — STATE OF CALIFORNIA

BKF ENGINEERS
4670 WILLOW ROAD, SUITE 250
PLEASANTON, CA 94588

PARIKH CONSULTANTS, INC.
1497 N MILPITAS BLVD.
MILPITAS, CA 95035

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LR-22-006

N 1928738.5
E 6353984.1

150.0

	4.5	CR EI		Poorly graded GRAVEL (GP).
11	2.5	M UW		SILTY SAND with GRAVEL (SM); loose; dark brown; moist; fine SAND; fine subrounded gravel.
14	2.5	M UW PA		Coarse gravel; fines (19.8%); SAND (53.1%).
18	2.5	M UW		SANDY lean CLAY with GRAVEL (CL); stiff; dark brown; moist; medium plasticity; fine angular gravel; PP=1.5 tsf.
6	1.4	M PI		Lean CLAY (CL); soft; dark olive brown; moist; medium plasticity; (LL=40, PI=16).
10	2.5	M UW UU		SANDY lean CLAY (CL); medium stiff; greenish gray; moist; medium plasticity; trace gravel including few coarse gravel, PP=0.75 tsf; (UU=0.58 ksf).
17	1.4	M		Dark yellowish brown.
14	2.5	M UW		SANDY SILT (ML); soft; dark yellowish brown; moist; nonplastic; fine SAND.
				Lean CLAY (CL); medium stiff; dark yellowish brown; moist; low plasticity.
15	1.4	M		
18	2.5	M UW UC		Stiff; olive brown; medium plasticity; PP=1.5 tsf; (UC=2.7 ksf).
17	1.4	M		Medium stiff; greenish gray.
27	2.5	M UW		Very stiff; PP=2.0 tsf.
23	2.5	M UW PA PI		CLAYEY SAND (SC); medium dense; greenish gray; moist; fine sand; fines (37%); SAND (63%); (LL=39, PI=20).
29	2.5	M UW		Lean CLAY (CL); very stiff; grayish brown; moist; medium plasticity; PP=2.0 tsf.
16	2.5	M UW		ORGANIC fat CLAY (OH); stiff; dark bluish gray; moist; high plasticity; trace SAND; PP=1.5 tsf.
33	2.5	M UW		SANDY lean CLAY (CL); stiff; dark yellowish brown; moist; medium plasticity; pocket of silty SAND; trace fine gravel; PP=1.5 tsf.
52	2.5	M		CLAYEY SAND with GRAVEL (SC); dense; dark yellowish brown; moist; fine to medium SAND; fine subangular gravel.
100/10	2.5	M UW		Very dense; fine SAND.
51	1.4	M		SILTY SAND with GRAVEL (SM); very dense; dark yellowish brown; moist; fine SAND; fine angular gravel.
49	1.4	M		SILTY GRAVEL with SAND (GM); dense; dark yellowish brown; moist; fine angular gravel.
47	1.4	M		SANDY lean CLAY (CL); very stiff; dark yellowish brown; moist; low plasticity; fine SAND.
80	1.4	M		SILTY GRAVEL with SAND (GM); very dense; dark yellowish brown; moist; fine SAND; fine angular gravel.
82	2.5	M UW		Lean CLAY (CL); medium stiff; dark yellowish brown; moist; medium plasticity; trace gravel.
24	1.4	M		SANDY lean CLAY (CL); very stiff; olive brown; moist; medium plasticity; PP=2.25 tsf.
44	2.5	M UW		
26	1.4	M		Medium stiff; trace fine gravel.
33	2.5	M UW UU		Stiff; yellowish brown; PP=1.5 tsf; (UU=3.45 ksf).
34	1.4	M		Stiff; dark yellowish brown.
50/5	2.5	M UW		SANDY lean CLAY with GRAVEL (CL); hard; dark yellowish brown; moist; medium plasticity; fine angular gravel; PP>4.0 tsf.
88/9	1.4	M		SILTY GRAVEL with SAND (GM); very dense; dark yellowish brown; moist; fine angular gravel; fine SAND.
80/10	1.4	M		Poorly graded GRAVEL with SILT and SAND (GP-GM); very dense; olive brown; moist; medium sand; fine angular gravel.
79	1.4	M		Dark yellowish brown.

GWS Elev. 119.0
01-18-22

01-18-22
Terminated at Elev. -1.5
ERi = 82.2%
Groundwater was measured at 31 during the time of drilling

CPT-22-007

N 1928768.2
E 6354106.6

150.0

Friction Ratio (%): 10 8 6 4 2 0
Tip Bearing (tsf): 100 200 300 400 500

12-06-21
Terminated at Elev 71.9

LR-22-008

N 1928796.6
E 6354226.6

150.0

	4.5	M UW		SANDY lean CLAY (CL); medium stiff; dark brown; moist; medium plasticity; trace gravel; (LL=32, PI=15).
2	1.4	M PI		
9	2.5	M UW PI		Very stiff; PP=2.25 tsf; (LL=37, PI=19).
7	1.4	M		Medium stiff; fine SAND.
6	2.5	M UW PI		Very soft; dark olive brown; wet; medium plasticity; trace fine to medium gravel; PP<0.25 tsf; (LL=36, PI=17).
19	1.4	M		SANDY lean CLAY with GRAVEL (CL); medium stiff; dark yellowish brown; moist; medium plasticity; trace gravel.
25	2.5	M UW		CLAYEY SAND with GRAVEL (SC); medium dense; dark yellowish brown; moist; fine to coarse SAND, fine angular gravel.
5	1.4	M PA PI		SANDY lean CLAY (CL); loose; dark yellowish brown; moist; medium plasticity; fine angular gravel; fines (59.6%); SAND (40.4%); (LL=32, PI=14).
36	2.5	M UW PA		SILTY SAND with GRAVEL (SM); dense; dark brown; moist; fine angular gravel; fines (12.7%); SAND (68.2%); PP=1.75 tsf.
14	1.4	M		Lean CLAY (CL); very soft; greenish gray; moist; medium plasticity.
25	2.5	M UW C PI		SANDY lean CLAY (CL); very stiff; greenish gray; moist; medium plasticity; PP=2.0 tsf; (LL=35, PI=17).
30	1.4	M		Soft; gray.
22	2.5	M UW		Lean CLAY (CL); very stiff; olive brown; moist; medium plasticity; PP=2.5 tsf.
12	1.4	M PI		SANDY lean CLAY (CL); medium stiff; olive; moist; medium plasticity; (LL=37, PI=17).
22	2.5	M UW		SILTY SAND (SM); dense; dark greenish gray; moist; fine SAND.
21	1.4	M UW		ORGANIC lean CLAY (OL); medium stiff; dark greenish gray; moist; medium plasticity.
37	1.4	M		SANDY lean CLAY (CL); medium stiff; dark olive brown; moist; medium plasticity; trace fine angular gravel.
41	1.4	M		Very stiff.
				CLAYEY GRAVEL with SAND (GC); dense; dark yellowish brown; moist; fine and coarse SAND; fine angular gravel.

GWS Elev. 141.0
01-19-22

01-19-22
Terminated at Elev. 68.5
ERi = 82.2%
Groundwater was measured at 9 during the time of drilling

PROFILE

Vert. : 1" = 10'

DESIGN OVERSIGHT	Robert Deo
SIGN OFF DATE	5/16/25
DRAWN BY	KIM OUYANG
CHECKED BY	JORGE TURBAY
FIELD INVESTIGATION BY:	L.S. BHANGOO & CRAIG LANGBEIN
DATE:	DEC 2021 TO FEB 2022
PREPARED FOR THE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
PROJECT ENGINEER	JORGE TURBAY
BRIDGE NO.	20-0307
POST MILES	21.5

EDWARDS AVENUE PEDESTRIAN OVERCROSSING

LOG OF TEST BORINGS 3 OF 3

GS GEOTECHNICAL LOG OF TEST BORINGS SHEET (ENGLISH) (REV. 03/14/12)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0751
PROJECT NUMBER & PHASE: 0401300002131 CONTRACT NO.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
6-10-22	1-10-23	6-28-24	10-4-24	117	117

FILE => $REQUEST

USERNAME = > $USER DATE PLOTTED = > $DATE TIME PLOTTED = > $TIME

FOR ACCURETE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT DISTRICT OFFICE.

LEGEND:

⇨ INDICATES TRAFFIC DIRECTION

NOTES:

1. FOR "GENERAL NOTES" SEE "GENERAL NOTES" SHEET
2. THIS PLAN ACCURATE FOR EDWARDS AVENUE PEDESTRIAN OVERCROSSING ONLY.
3. FOR WEST APPROACH WALLS, SEE "WEST APPROACH WALLS STRUCTURAL APPROACH WALLS PLAN No.1".
4. FOR EAST APPROACH WALLS, SEE "EAST APPROACH WALLS STRUCTURAL PLAN No.2".
5. FOR WEST TOUCH DOWN, SEE "WEST TOUCHDOWN STRUCTURAL PLAN"
6. FOR EAST TOUCH DOWN, SEE EAST TOUCHDOWN PLAN "EAST TOUCHDOWN STRUCTURAL PLAN"

(1) APPROACH WALL FOUNDATION.

(2) APPROACH WALL WITH ARCHITECTURAL TREATMENT

(3) CAST-IN-PLACE REINFORCED CONCRETE SLAB w/ POLYESTER CONCRETE OVERLAY

(4) GUARD WITH HANDRAIL

(5) VARIABLE HEIGHT CONC RETAINING WALL

(6) GUARD WITH FENCING (TALL STANCHIONS)

(7) CAST-IN-PLACE REINFORCED CONCRETE SEATWALL

(8) BENT 8 RETAINING WALL

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	223	247

REGISTERED CIVIL ENGINEER — DATE 2/21/25

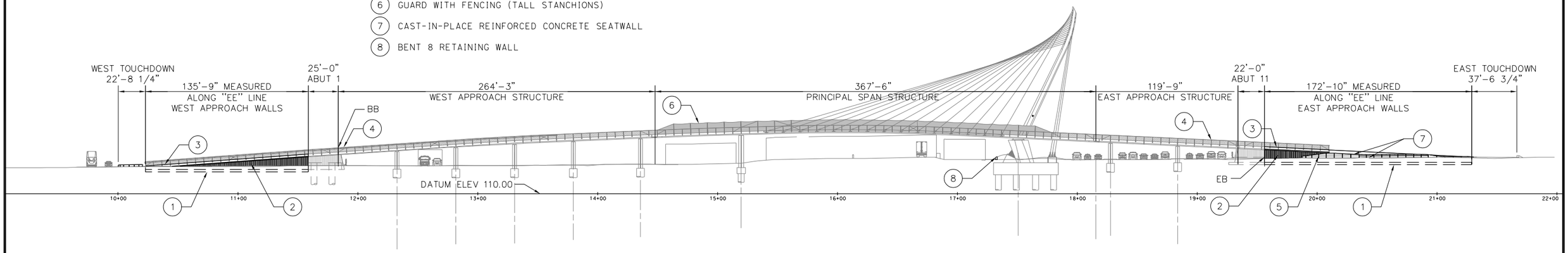
REGISTERED PROFESSIONAL ENGINEER — JESUS FRANCISCO SIERRA — No. S3298 Exp. 3/31/25 — STRUCTURAL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

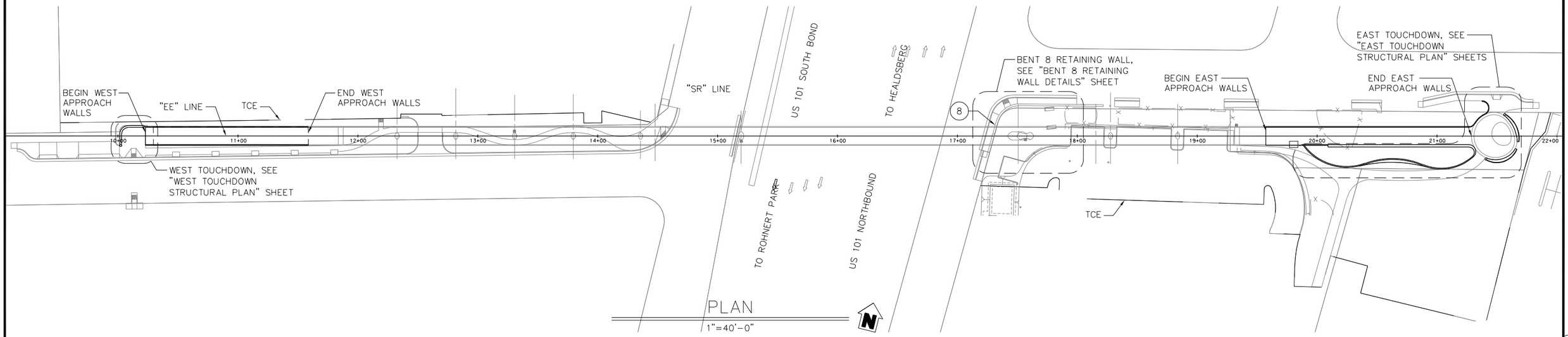
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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

SIERRA ENGINEERING GROUP
39500 STEVENSON PL., SUITE 107
FREMONT, CALIFORNIA 94539



ELEVATION
1"=40'-0"



PLAN
1"=40'-0"

DESIGN OVERSIGHT

SIGN OFF DATE

	BY	CHECKED
DESIGN	F. Franco	J. Sierra
DETAILS	F. Franco	J. Sierra
QUANTITIES	F. Franco	J. Sierra

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

F. Franco
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC APPROACH WALLS
GENERAL PLAN

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

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USERNAME => $USER

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131

COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
1-19-23	6-28-24	10-4-24	2-21-25	1	25

2018057

(2018057SRB_S6)

GENERAL NOTES
LOAD RESISTANCE FACTOR DESIGN

DESIGN: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 2017 EDITION AND CALIFORNIA AMENDMENTS, PREFACE DATED APRIL 2019, SUPPLEMENTED BY LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES DATED DECEMBER 2009, WITH 2015 INTERIM REVISIONS

STANDARD PLANS & SPECIFICATIONS, 2024 EDITION.

SEISMIC DESIGN: FOR DESIGN OF WALLS & RAILS - AASHTO LRFO BOS, 2017 EDITION WITH CALIFORNIA AMENDMENTS.

DEAD LOAD: 160 PCF NORMAL WEIGHT REINFORCED CONCRETE
150 PCF POLYESTER CONCRETE OVERLAY

LIVE LOAD: AASHTO LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES w/ 2015 INTERIM REVISIONS,

SEISMIC LOAD: SOIL PROFILE: = 250 M/S
NUSAN MAGNITUDE: = 6.99
PEAK GROUND ACCELERATION: = 0.73g

REINFORCED CONCRETE: ASTM A706
Fy = 60 KSI UNLESS OTHERWISE NOTED
f'c = 4.0 KSI

MISC METAL: MISCELLANEOUS METAL: Fy = 50 KSI, ASTM A572, GRADE 50

GUARD AND FENCING: FIN PLATES, UNLESS OTHERWISE NOTED: Fy = 50 KSI, ASTM A709, GRADE 50W
HS BOLTS: ASTM F3125, GRADE A325, TYPE 3
ANCHOR BOLTS: ASTM F1554, GRADE 55
NUTS: ASTM A563, GRADE C3 OR DH3
WASHERS: ASTM F436, TYPE 3

STAINLESS STEEL: SHORT STANCHION/TALL STANCHION WELDMENT: ASTM A240, TYPE 304

For log of test borings, see "EDWARDS AVENUE POC" Plans

GENERAL NOTES

1. HORIZONTAL LAYOUT LINES ARE C BRIDGE. CONTRACTOR MUST VERIFY LAYOUT INFORMATION SHOWN ON STRUCTURAL DRAWINGS WITH CIVIL DRAWINGS PRIOR TO PERFORMING ANY CONSTRUCTION STAKING.
2. PRIOR TO PLACING ANY CONCRETE, THE CONTRACTOR MUST VERIFY LOCATIONS OF CONDUITS, PIPES, PULL BOXES, JUNCTION BOXES AND ANY OTHER EMBEDDED ITEMS SHOWN ON CIVIL, STRUCTURAL, MECHANICAL, ARCHITECTURAL, ELECTRICAL & SYSTEMS DWGS.

   THE PIPES, SEWERS, UTILITIES AND OTHER FACILITIES SHOWN ON THE FOUNDATION PLANS MAY NOT BE COMPLETE. THE CONTRACTOR SHOULD REFER TO THE VARIOUS PLANS THAT SHOW THESE FACILITIES AND VERIFY THE LOCATION, SIZE, AND QUANTITY PRIOR TO PERFORMING ANY CONSTRUCTION STAKING.
3. B0-3 / - INDICATES CALTRANS STANDARD PLAN SHEET No. / INDICATES DETAIL No.

ABBREVIATIONS

TW TOP OF WALL
EF Each Face
EQ Equal
Thk Thick
TW Top of wall
WP Work Point

FOR ADDITIONAL ABBREVIATIONS, SEE A3A / - , A3B / - , A3C / -

SUPPORT LOCATION	SERVICE PERMISSIBLE NET CONTACT STRESS (SETTLEMENT) (ksf)	STRENGTH/CONSTRUCTION FACTORED GROSS NOMINAL BEARING RESISTANCE (SETTLEMENT) φb = 0.45 (ksf)	EXTREME EVENT FACTORED GROSS NOMINAL BEARING RESISTANCE φB = 1.0 (ksf)
WEST APPROACH WALLS	0.8	3.0	8.0
EAST APPROACH WALLS EE Sta 19+59.25 - EE Sta 20+11.90	0.95	2.9	6.8
EAST APPROACH WALLS RW EE Sta 20+11.90 - EE Sta 21+32.08	0.8	3.1	7.0

INDEX TO APPROACH WALL PLANS

SHEET	TITLE
1	GENERAL PLAN
2	GENERAL NOTES
3	APPROACH WALLS STRUCTURAL PLAN No. 1
4	APPROACH WALLS STRUCTURAL PLAN No. 2
5	DECK CONTOURS
6	WEST APPROACH DETAILS No. 1
7	WEST APPROACH DETAILS No. 2
8	WEST APPROACH DETAILS No. 3
9	EAST APPROACH DETAILS No. 1
10	EAST APPROACH DETAILS No. 2
11	EAST APPROACH DETAILS No. 3
12	APPROACH WALL DETAILS No. 1
13	BENT 8 RETAINING WALL DETAILS
14	WEST TOUCHDOWN STRUCTURAL PLAN
15	EAST TOUCHDOWN STRUCTURAL PLAN
16	EAST TOUCHDOWN DETAILS No. 1
17	ARCHITECTURAL SECTIONS No. 1
18	ARCHITECTURAL SECTIONS No. 2
19	Arch DETAILS - PYLON AREA
20	Arch DETAILS - WEST APPROACH WALLS
21	Arch DETAILS - EAST APPROACH WALLS
22	Arch DETAILS - WEST TOUCHDOWN
23	Arch DETAILS - EAST TOUCHDOWN No. 1
24	Arch DETAILS - EAST TOUCHDOWN No. 2
25	Arch DETAILS - Misc

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	224	247

REGISTERED CIVIL ENGINEER — DATE 2/21/25

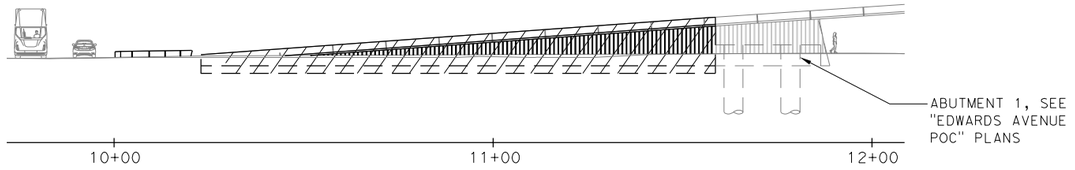
REGISTERED PROFESSIONAL ENGINEER — JESUS FRANCISCO SIERRA — No. S3298 — Exp. 3/31/25 — STRUCTURAL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

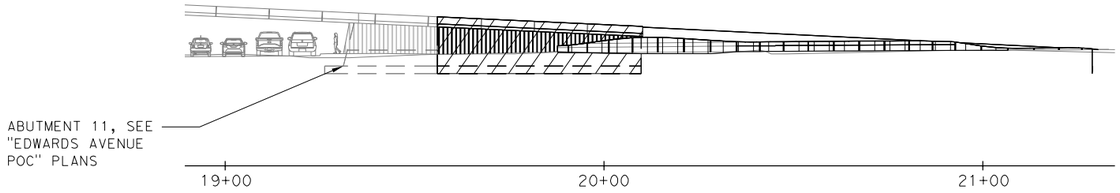
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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

SIERRA ENGINEERING GROUP
39500 STEVENSON PL., SUITE 107
FREMONT, CALIFORNIA 94539



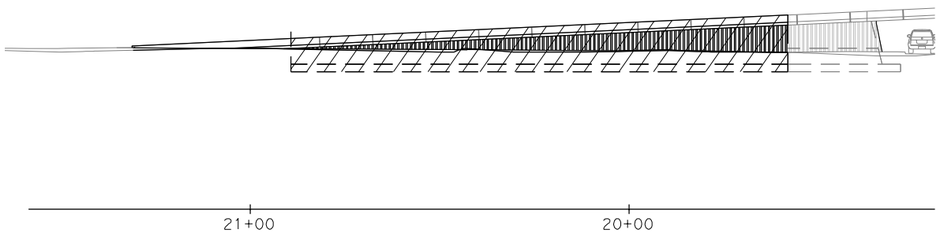
WEST APPROACH WALLS



EAST APPROACH WALLS–SOUTH ELEVATION

STRUCTURAL CONCRETE RETAINING WALLS (f'c=4.0 ksi)

VARIABLE HEIGHT CONC RET WALL (MINOR CONCRETE)



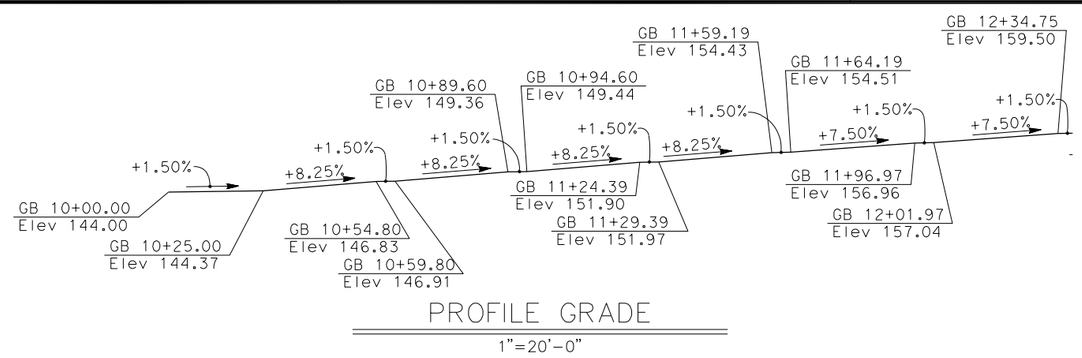
EAST APPROACH WALLS–NORTH ELEVATION

DESIGN OVERSIGHT		DESIGN	BY F. Franco	CHECKED J. Sierra	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
SIGN OFF DATE		DETAILS	BY F. Franco	CHECKED J. Sierra	F. Franco, PROJECT ENGINEER
		QUANTITIES	BY F. Franco	CHECKED J. Sierra	BRIDGE NO. 20-0307; POST MILES 21.5

EDWARDS AVENUE POC APPROACH WALLS
GENERAL NOTES

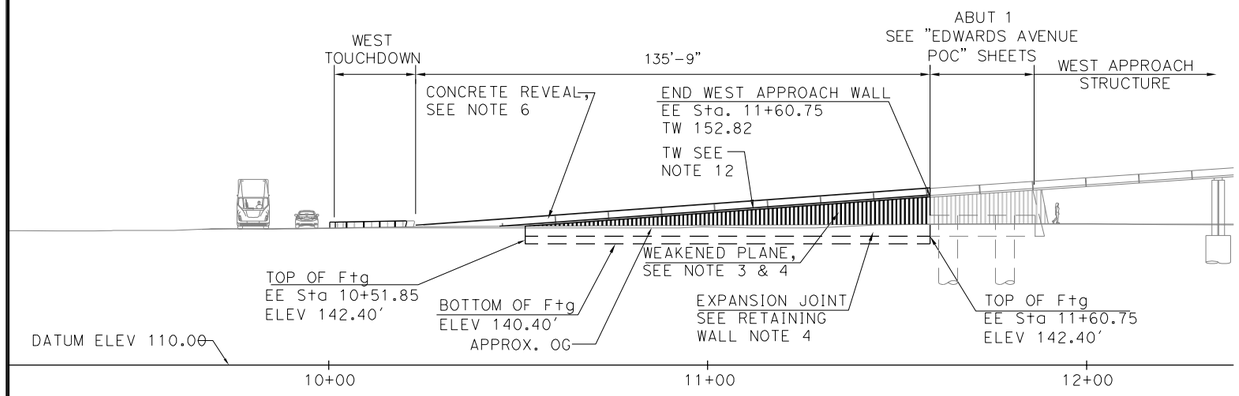
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TIME PLOTTED => $TIME
USERNAME => $USER
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3
PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340
DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES: 6-10-22; 2-21-25; 10-4-24
SHEET 2 OF 25

2018057 (2018057SRB_S6)



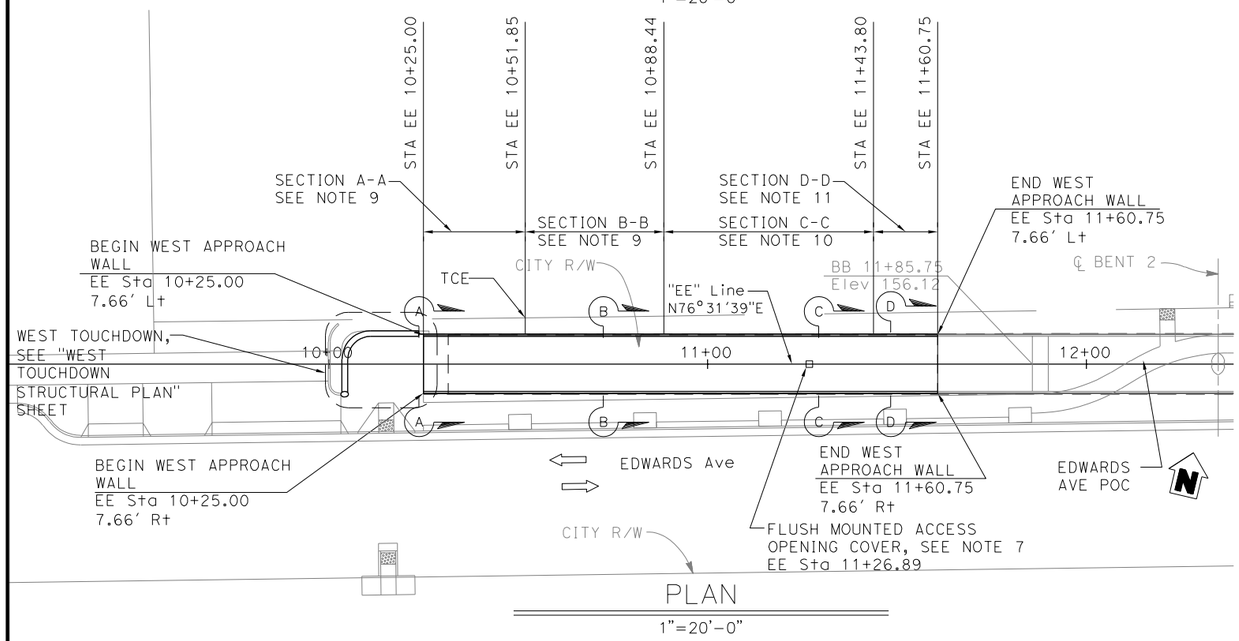
PROFILE GRADE

1"=20'-0"



ELEVATION

1"=20'-0"



PLAN

1"=20'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	225	247

REGISTERED CIVIL ENGINEER — DATE 2/21/25

REGISTERED PROFESSIONAL ENGINEER
JESUS FRANCISCO SIERRA
No. S3298
Exp. 3/31/25
STRUCTURAL
STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

SIERRA ENGINEERING GROUP
39500 STEVENSON PL., SUITE 107
FREMONT, CALIFORNIA 94539

NOTES:

1. Unless noted otherwise, wall alignment is to the ``EE" line with offset indicated.
2. For alignment & profile, see "ROADWAY" plans.
3. Weakened plane joint in CIP wall must be spaced at approximately equal spacing between expansion joints. weakened plane joint spacing must not exceed 24 feet, use CALTRANS STD BRIDGE DETAILS B0-3
4. Expansion joint spacing in CIP wall must not exceed 96 feet. see CALTRANS STD BRIDGE DETAILS B0-3
5. For Abutment 1, see "EDWARDS AVENUE POC" plans
6. Space concrete reveals @ 14'-0" oc center. match guard stanchion locations. See DETAIL 1 on "APPROACH WALL DETAILS No. 1" sheet
7. For flush mounted access opening cover see "ARCH DETAILS - Misc Sheet and, "DETAIL 2" on "APPRAOCH WALL DETAILS No. 1" sheet,
8. Drains to align with weakened planes and be 1'-0" away from all expansion joints. See CALTRANS STD BRIDGE DETAIL B0-3
9. For "SECTION A-A" and "SECTION B-B", & SECTION C-C" see "WEST APPROACH DETAILS No.1" sheet
10. For "SECTION C-C" see "WEST APPROACH DETAILS NO. 2" sheet
11. For "SECTION D-D" see "WEST APPROACH DETAILS No. 3" sheet

DESIGN OVERSIGHT

SIGN OFF DATE

	BY	CHECKED
DESIGN	F. Franco	J. Sierra
DETAILS	F. Franco	J. Sierra
QUANTITIES	F. Franco	J. Sierra

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

F. Franco
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC APPROACH WALLS
APPROACH WALLS STRUCTURAL PLAN No.1

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

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FILE => $REQUEST

TIME PLOTTED => $TIME
USERNAME => $USER

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131

COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
6-10-22		2-21-25	10-4-24	3	25

2018057 (2018057SRB_S6)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	226	247

REGISTERED CIVIL ENGINEER — DATE 2/21/25

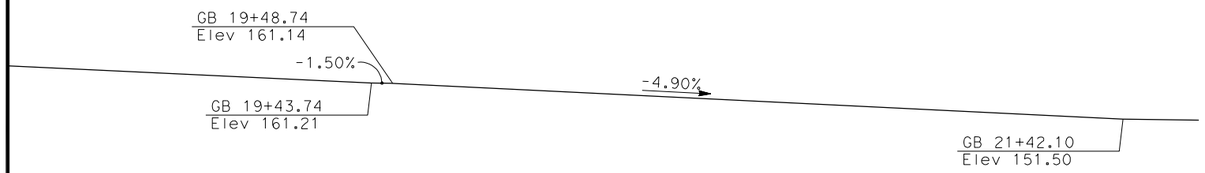
REGISTERED PROFESSIONAL ENGINEER — JESUS FRANCISCO SIERRA — No. S3298 — Exp. 3/31/25 — STRUCTURAL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

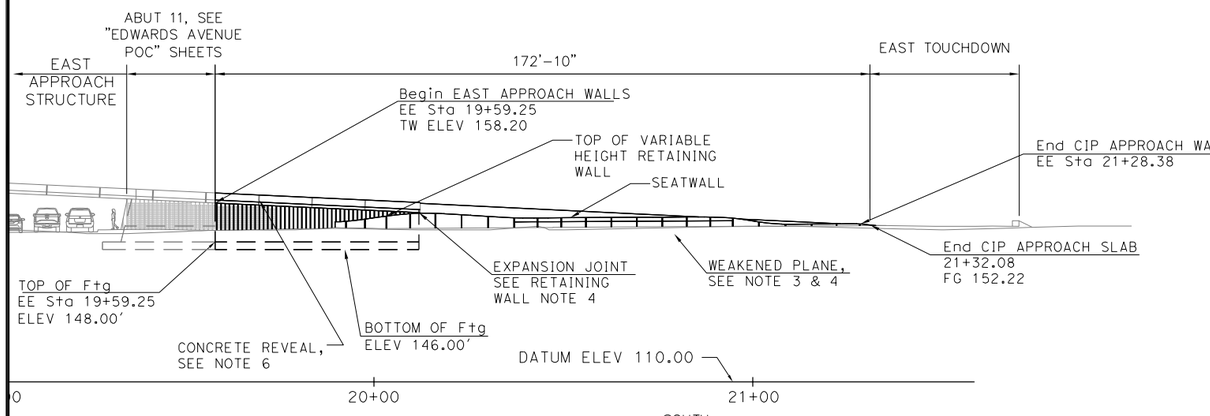
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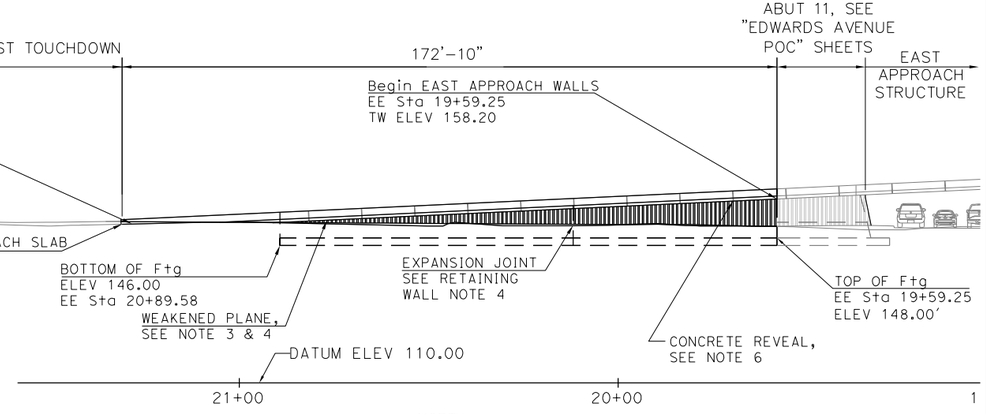
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

SIERRA ENGINEERING GROUP
39500 STEVENSON PL., SUITE 107
FREMONT, CALIFORNIA 94539



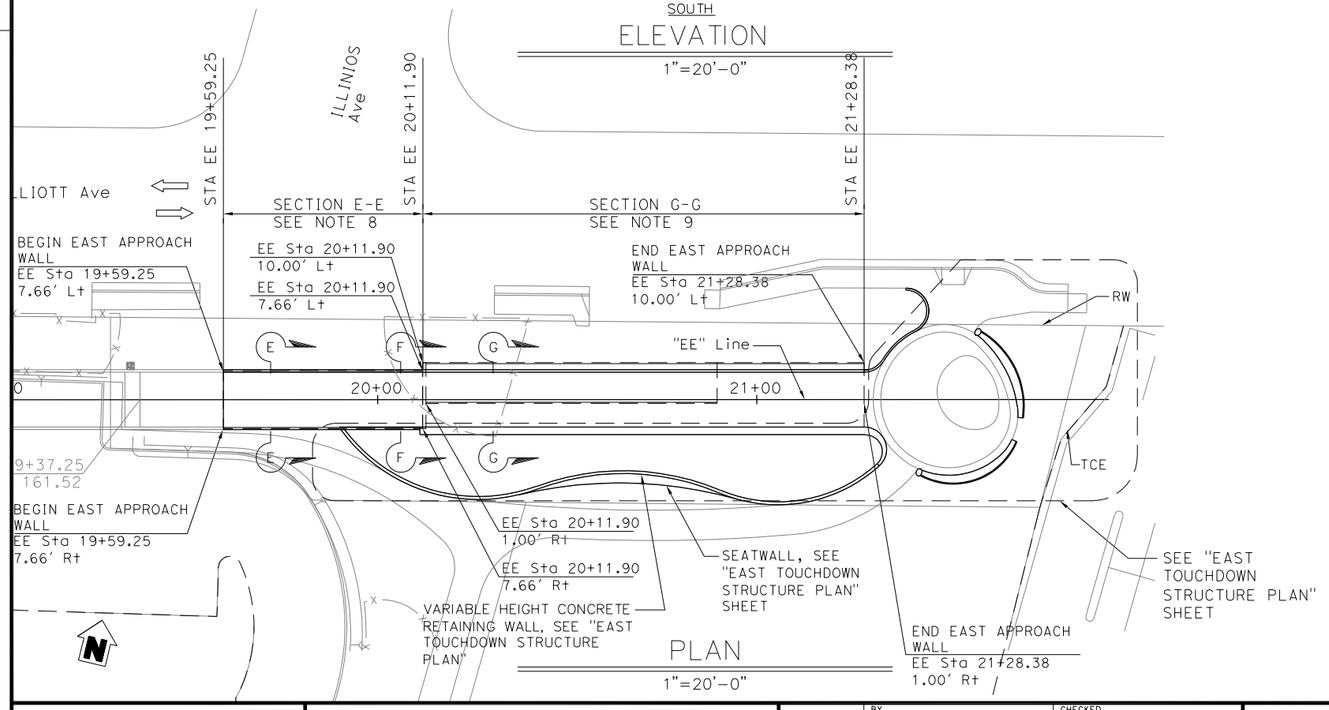
PROFILE GRADE
1"=20'-0"





SOUTH
ELEVATION
1"=20'-0"

NORTH
ELEVATION
1"=20'-0"



PLAN
1"=20'-0"

NOTES:

1. Unless noted otherwise, wall alignment is to the ``EE" line with offset indicated.
2. For alignment & profile, see ROADWAY plans.
3. Weakened plane joint in cip wall must be spaced at approximately equal spacing between expansion joints. Joint spacing must not exceed 24 feet, use CALTRANS STD BRIDGE DETAILS B0-3
4. Expansion joint spacing in cip wall must not exceed 96 feet. see CALTRANS STD BRIDGE DETAILS B0-3
5. For Abutment 11, see "EDWARDS AVENUE POC" plans
6. Space concrete reveals @ 14'-0" oc center. match guard stanchion locations. See DETAIL 3 on "APPROACH WALL DETAILS No. 1" sheet
7. Drains to align with weakened planes and be 1'-0" away from all expansion joints. See CALTRANS STD BRIDGE DETAIL B0-3
8. For location of "SECTION G-G" see "EAST APPROACH DETAILS No. 1" sheet
9. For location of "SECTION E-E" see "EAST APPROACH DETAILS No. 2" sheet
10. For location of "SECTION G-G" see "EAST APPROACH DETAILS No. 3" sheet
11. Profile grade varies from 2 1/4" at EE Sta 21+15.75 to 1 1/4" at EE Sta 21+30.75

DESIGN OVERSIGHT

SIGN OFF DATE

	BY	CHECKED
DESIGN	F. Franco	J. Sierra
DETAILS	F. Franco	J. Sierra
QUANTITIES	F. Franco	J. Sierra

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

F. Franco
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC APPROACH WALLS
APPROACH WALLS STRUCTURAL PLAN No.2

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

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TIME PLOTTED => $TIME
USERNAME => $USER
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PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
6-10-22		2-21-25	10-4-24	4	25

20180575 (20180575RB_S61)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	227	247

REGISTERED CIVIL ENGINEER — DATE 2/21/25

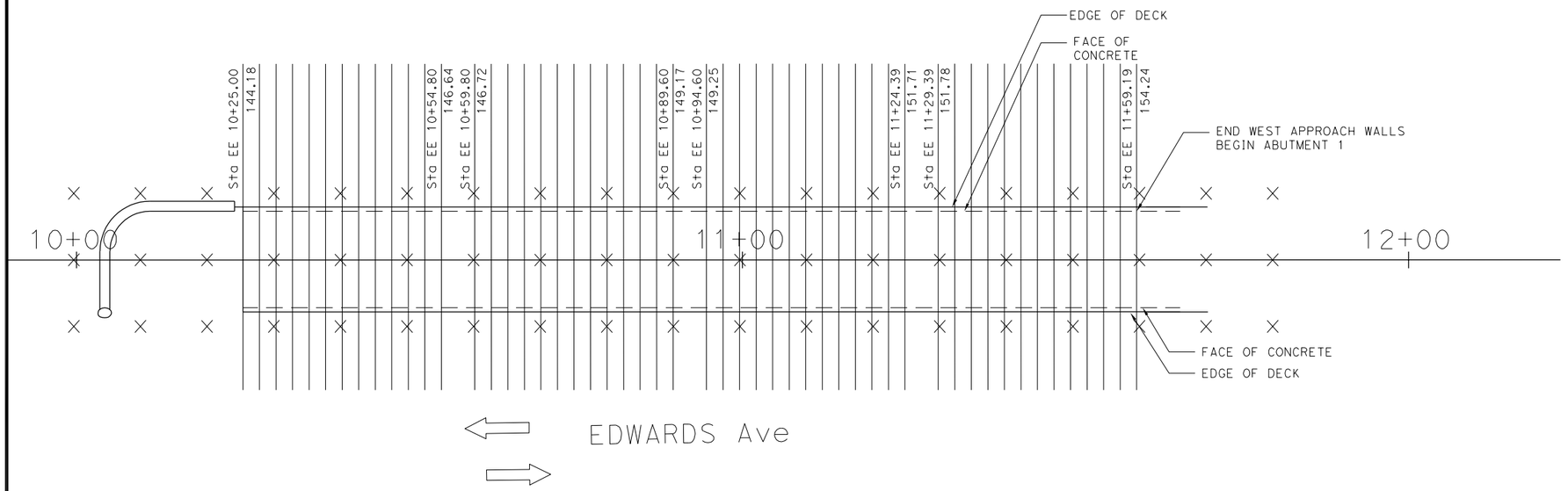
REGISTERED PROFESSIONAL ENGINEER — JESUS FRANCISCO SIERRA — No. S3298 Exp. 3/31/25 — STRUCTURAL — STATE OF CALIFORNIA

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.

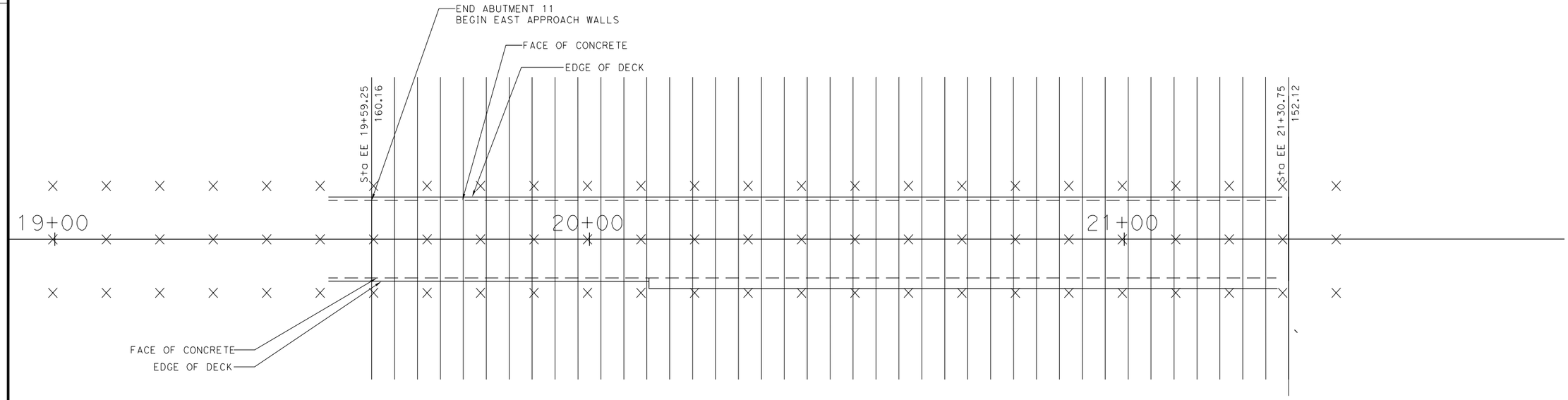
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

SIERRA ENGINEERING GROUP
39500 STEVENSON PL., SUITE 107
FREMONT, CALIFORNIA 94539



WEST APPROACH PLAN

1"=10'-0"



EAST APPROACH PLAN

1"=10'-0"

NOTES:

1. Contours indicate top of deck elevation, excluding polyester concrete overlay.
2. Deck inbetween intervals is flat
3. X Indicates 10 foot intervals measured along "EE" line.
4. Contours do not include falsework settlement
5. Contours do not include concrete curb.
6. Contour interval is 0.2ft unless noted.

DESIGN OVERSIGHT

SIGN OFF DATE

	BY	CHECKED
DESIGN	F. Franco	J. Sierra
DETAILS	F. Franco	J. Sierra
QUANTITIES	F. Franco	J. Sierra

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

F. Franco
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC APPROACH WALLS
DECK CONTOURS

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

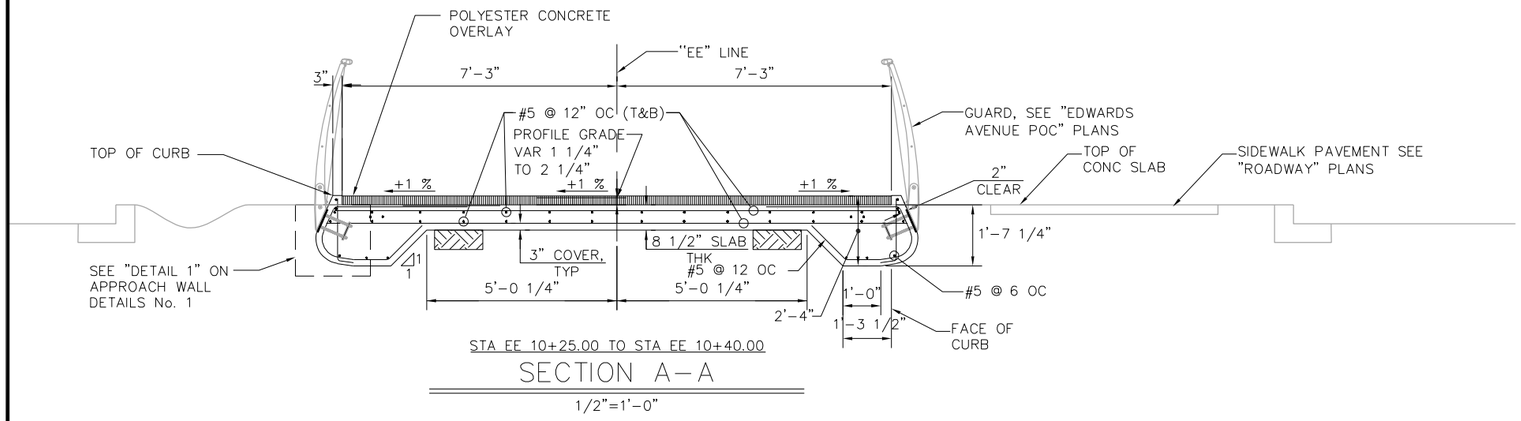
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES					SHEET	OF
2-21-25					5	25

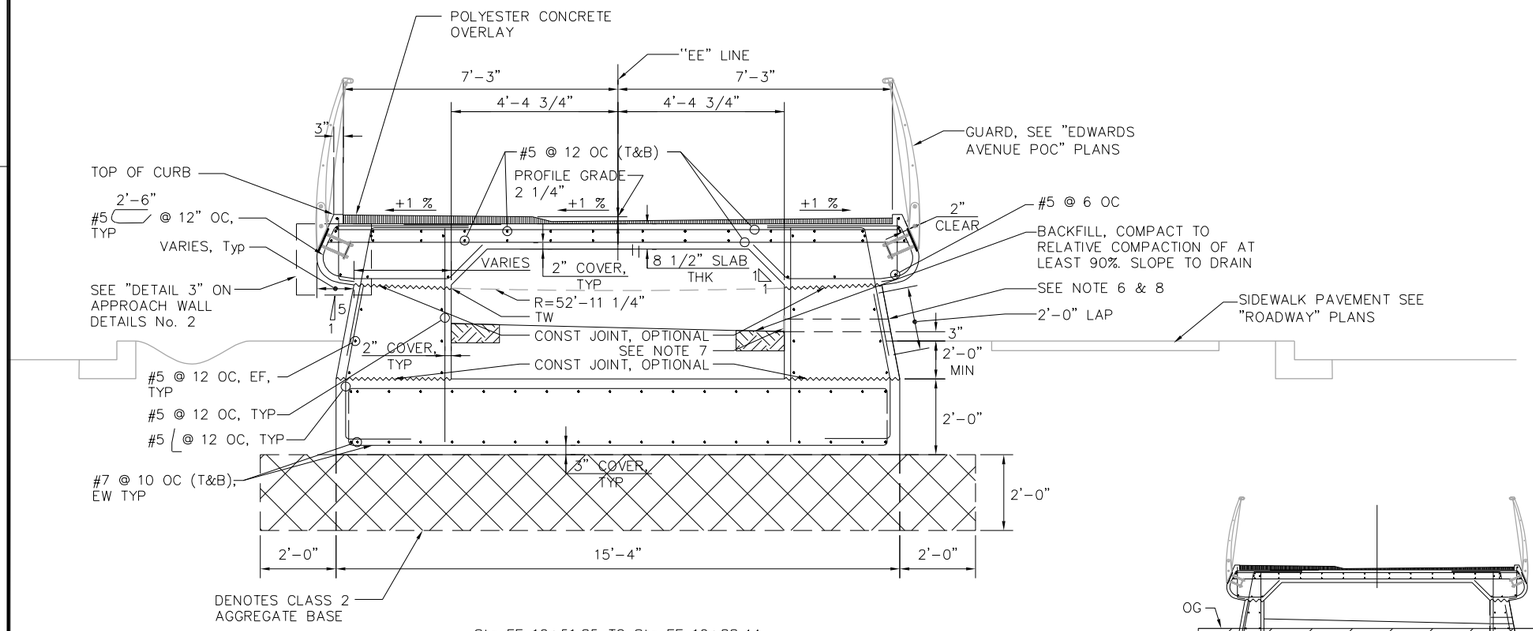
2018057 (20180575RB_S61)



STA EE 10+25.00 TO STA EE 10+40.00

SECTION A–A

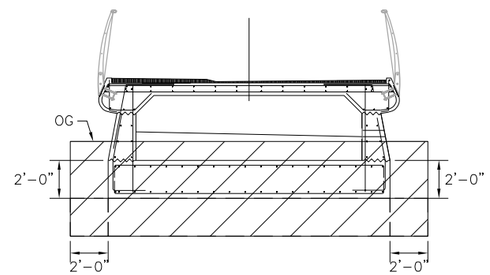
1/2"=1'-0"



Sta EE 10+51.85 TO Sta EE 10+88.44

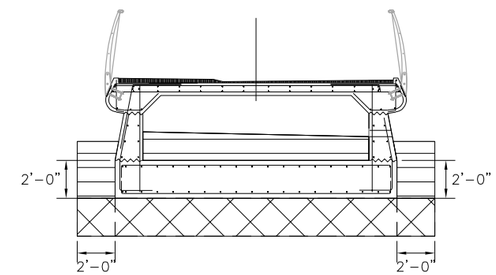
SECTION B–B

1/2"=1'-0"



LIMITS OF PAYMENT FOR EXCAVATION

NTS



LIMITS OF PAYMENT FOR BACKFILL

NTS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	228	247

REGISTERED CIVIL ENGINEER — DATE 2/21/25

REGISTERED PROFESSIONAL ENGINEER — JESUS FRANCISCO SIERRA — No. S3298 Exp. 3/31/25 — STRUCTURAL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

SIERRA ENGINEERING GROUP
39500 STEVENSON PL., SUITE 107
FREMONT, CALIFORNIA 94539

NOTES:

1. Unless noted otherwise, wall alignment is parallel to the ``EE" line with offset indicated.
2. For alignment & profile, see ROADWAY plans.
3. Weakened plane joint in cip wall must be spaced at approximately equal spacing between expansion joints. Joint spacing must not exceed 24 feet.
4. Expansion joint spacing in cip wall must not exceed 96 feet.
5. Provide 3/4" slab control joint @ 25'-0" oc. max, control joints to align with guard stanchions
6. Drains to align with weakened planes and be 1'-0" away from all expansion joints. See CALTRANS STD BRIDGE DETAIL B0-3
7. 6" square aluminum or galvanized steel wire 1/4" mesh hardware cloth, minimum wire diameter 0.025". Anchor firmly to backface.
8. Exposed wall drains must be located 3"$^{35}/_{64}$ above finished grade.
9. Limit of SECTION A-A Sta EE 10+25.00 to Sta EE 10+51.85. for location of SECTION A-A see "APPROACH WALLS STRUCTURE PLAN No. 1" sheet
10. Limit of SECTION B-B Sta EE 10+51.85 TO Sta EE 10+88.44. For location of SECTION A-A see "APPROACH WALLS STRUCTURE PLAN No. 1" sheet

LEGEND:

- Denotes limits of class 2 aggregate base backfill.
- Denotes limilts of structure excavation type D
- Denotes limilts of structure backfill
- Denotes concrete polyester overlay

DESIGN OVERSIGHT			
SIGN OFF DATE			
DESIGN	BY F. Franco	CHECKED J. Sierra	
DETAILS	BY F. Franco	CHECKED J. Sierra	
QUANTITIES	BY F. Franco	CHECKED J. Sierra	

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

F. Franco
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC APPROACH WALLS
WEST APPROACH DETAILS No. 1

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

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USERNAME => $USER

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131

COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES: 6-10-22 | 2-21-25 | 10-4-24

SHEET 6 OF 25

2018057 (2018057SRB_S6)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	229	247

REGISTERED CIVIL ENGINEER — DATE 2/21/25

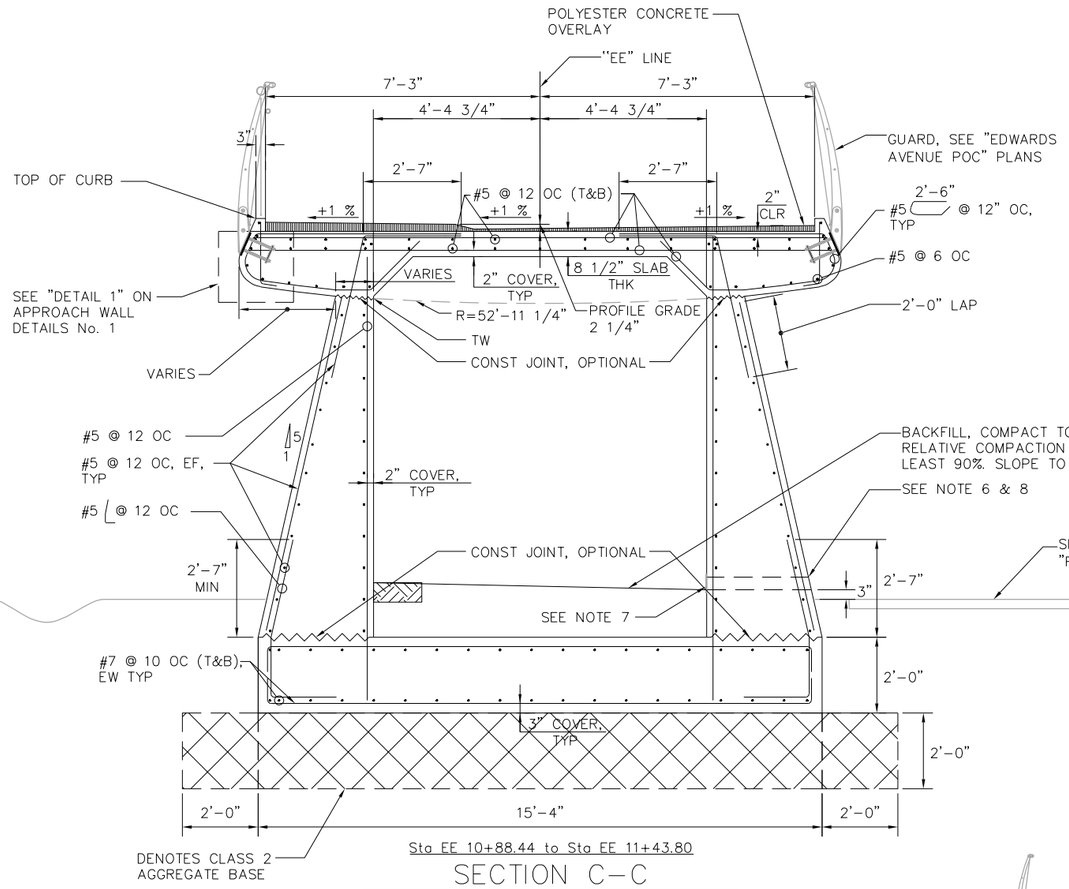
REGISTERED PROFESSIONAL ENGINEER — JESUS FRANCISCO SIERRA — No. S3298 — Exp. 3/31/25 — STRUCTURAL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

SIERRA ENGINEERING GROUP
39500 STEVENSON PL., SUITE 107
FREMONT, CALIFORNIA 94539



Sta EE 10+88.44 to Sta EE 11+43.80

SECTION C–C

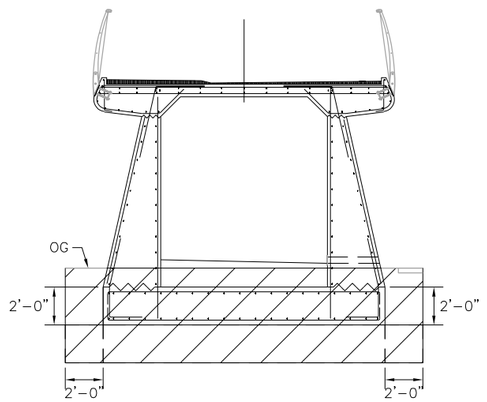
1/2"=1'-0"

NOTES:

1. Unless noted otherwise, wall alignment is parallel to the ``EE" line with offset indicated.
2. For alignment & profile, see ROADWAY plans.
3. Weakened plane joint in cip wall must be spaced at approximately equal spacing between expansion joints. Joint spacing must not exceed 24 feet.
4. Expansion joint spacing in cip wall must not exceed 96 feet.
5. Provide 3/4" slab control joint @ 25'-0" oc. max, control joints to align with guard stanchions
6. Drains to align with weakened planes and be 1'-0" away from all expansion joints. See CALTRANS STD BRIDGE DETAIL B0-3
7. 6" square aluminum or galvanized steel wire 1/4" mesh hardware cloth, minimum wire diameter 0.025". Anchor firmly to backface.
8. Exposed wall drains must be located 3"$^{35}/_{64}$ above finished grade.
9. Limit of SECTION C-C Sta EE 10+88.44 to Sta EE 11+43.80. For location of SECTION C-C SEE "APPROACH WALLS STRUCTURE PLAN No. 1" sheet

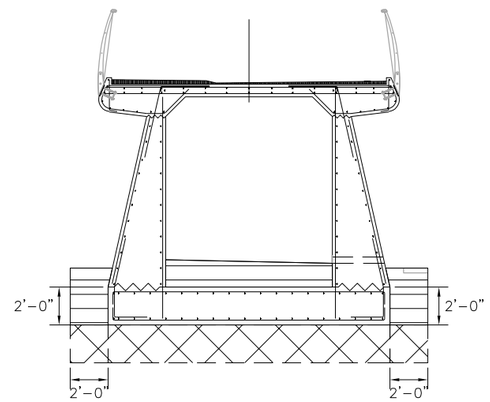
LEGEND:

- Denotes limits of class 2 aggregate base backfill.
- Denotes limits of structure excavation type D
- Denotes limits of structure backfill
- Denotes concrete polyester overlay



LIMITS OF PAYMENT FOR EXCAVATION

NTS



LIMITS OF PAYMENT FOR BACKFILL

NTS

DESIGN OVERSIGHT

SIGN OFF DATE

	BY	CHECKED
DESIGN	F. Franco	J. Sierra
DETAILS	F. Franco	J. Sierra
QUANTITIES	F. Franco	J. Sierra

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

F. Franco
PROJECT ENGINEER

BRIDGE NO.	20-0307
POST MILES	21.5

EDWARDS AVENUE POC APPROACH WALLS
WEST APPROACH DETAILS No. 2

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

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PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
6-10-22		2-21-25	10-4-24	7	25

(2018057SRB_S6)
2018057

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	230	247

REGISTERED CIVIL ENGINEER — DATE 2/21/25

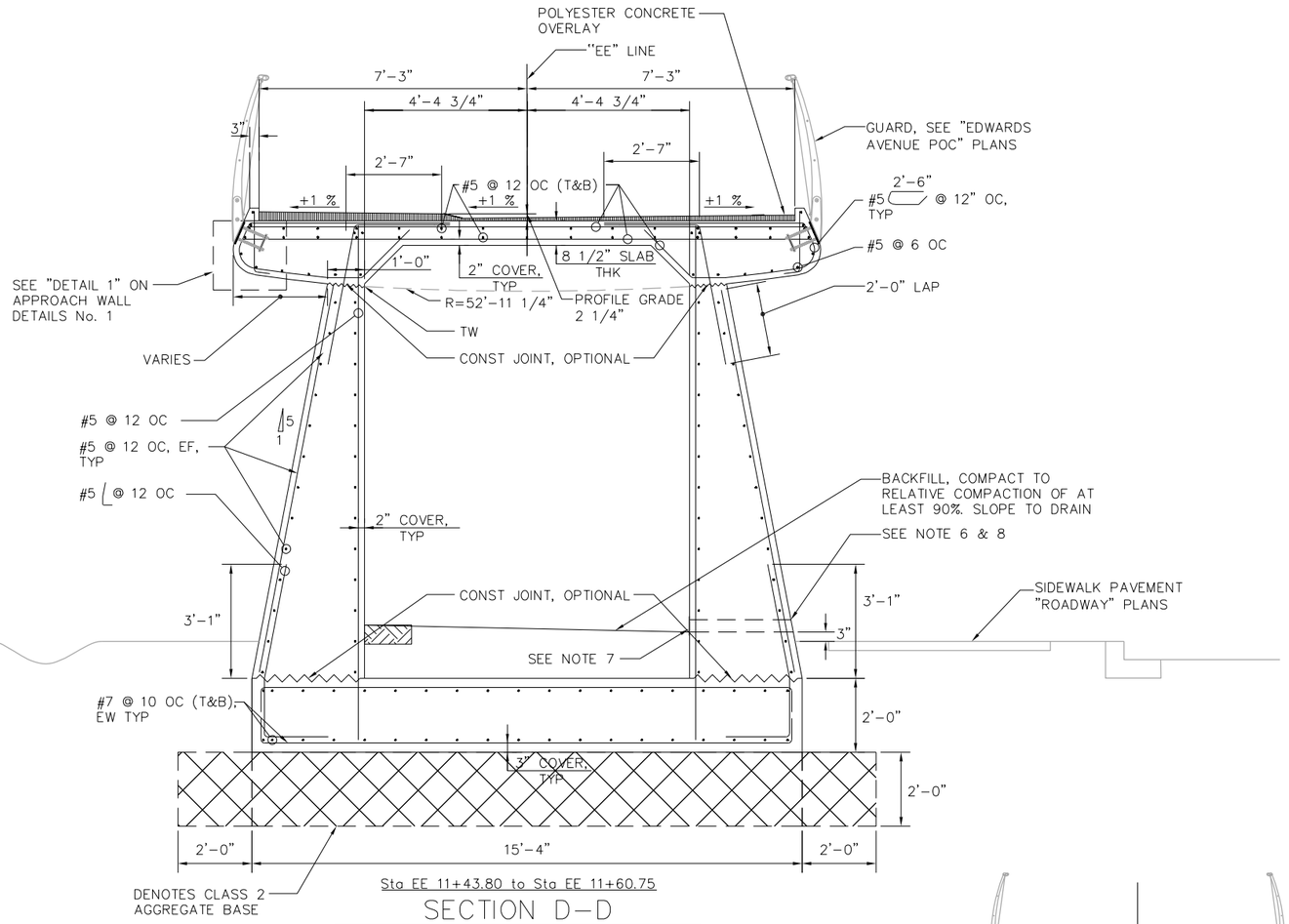
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JESUS FRANCISCO SIERRA — No. S3298 — Exp. 3/31/25 — STRUCTURAL — STATE OF CALIFORNIA

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

SIERRA ENGINEERING GROUP
39500 STEVENSON PL., SUITE 107
FREMONT, CALIFORNIA 94539



Sta EE 11+43.80 to Sta EE 11+60.75

SECTION D-D

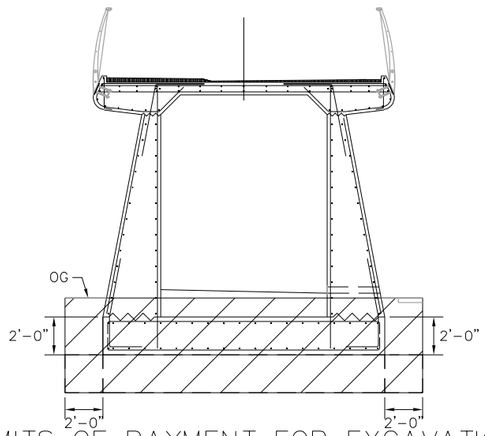
1/2"=1'-0"

NOTES:

1. Unless noted otherwise, wall alignment is parallel to the ``EE" line with offset indicated.
2. For alignment & profile, see ROADWAY plans.
3. Weakened plane joint in cip wall must be spaced at approximately equal spacing between expansion joints. Joint spacing must not exceed 24 feet.
4. Expansion joint spacing in cip wall must not exceed 96 feet.
5. Provide 3/4" slab control joint @ 25'-0" oc. max, control joints to align with guard stanchions
6. Drains to align with weakened planes and be 1'-0" away from all expansion joints. See CALTRANS STD BRIDGE DETAIL B0-3
7. 6" square aluminum or galvanized steel wire 1/4" mesh hardware cloth, minimum wire diameter 0.025". Anchor firmly to backface.
8. Exposed wall drains must be located 3"$^{35}/_{64}$ above finished grade.
9. Limit of SECTION D-D Sta EE 11+43.80 to Sta EE 11+60.75. For location of SECTION D-D SEE "APPROACH WALLS STRUCTURE PLAN No. 1" sheet

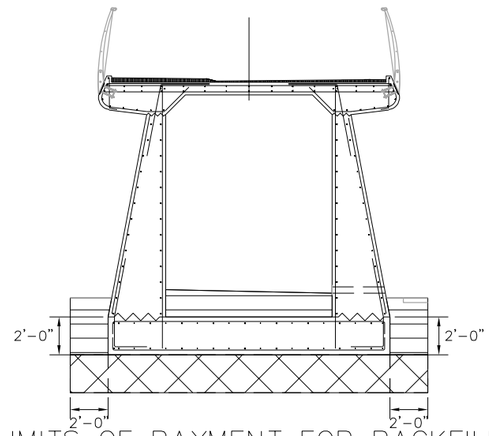
LEGEND:

- Denotes limits of class 2 aggregate base backfill.
- Denotes limits of structure excavation type D
- Denotes limits of structure backfill
- Denotes concrete polyester overlay



LIMITS OF PAYMENT FOR EXCAVATION

NTS



LIMITS OF PAYMENT FOR BACKFILL

NTS

DESIGN OVERSIGHT		DESIGN	BY F. Franco	CHECKED J. Sierra	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
SIGN OFF DATE		DETAILS	BY F. Franco	CHECKED J. Sierra	F. Franco, PROJECT ENGINEER
		QUANTITIES	BY F. Franco	CHECKED J. Sierra	BRIDGE NO. 20-0307; POST MILES 21.5

EDWARDS AVENUE POC APPROACH WALLS
WEST APPROACH DETAILS No. 3

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

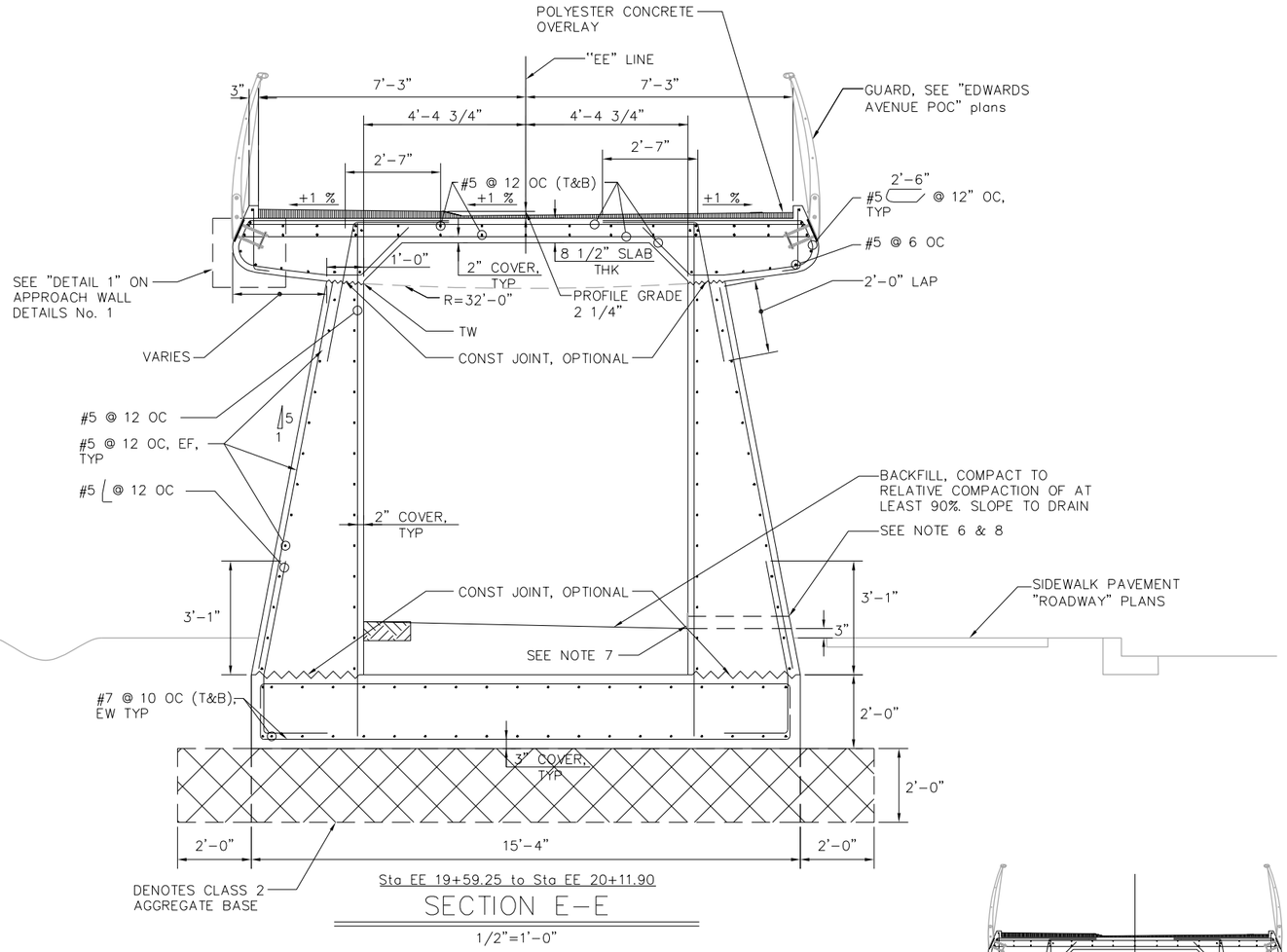
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PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
6-10-22		2-21-25	10-4-24	8	25

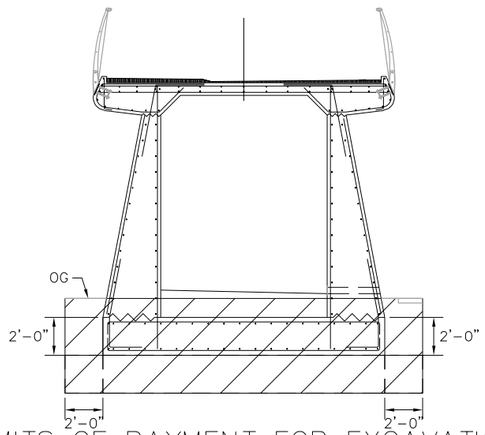
(2018057SRB_S6)
2018057



Sta EE 19+59.25 to Sta EE 20+11.90

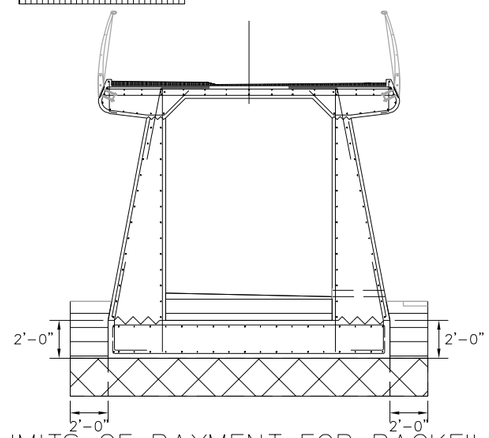
SECTION E-E

1/2"=1'-0"



LIMITS OF PAYMENT FOR EXCAVATION

NTS



LIMITS OF PAYMENT FOR BACKFILL

NTS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	231	247

2/21/25
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER
JESUS FRANCISCO SIERRA
No. S3298
Exp. 3/31/25
STRUCTURAL
STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

SIERRA ENGINEERING GROUP
39500 STEVENSON PL., SUITE 107
FREMONT, CALIFORNIA 94539

NOTES:

1. Unless noted otherwise, wall alignment is parallel to the ``EE" line with offset indicated.
2. For alignment & profile, see ROADWAY plans.
3. Weakened plane joint in cip wall must be spaced at approximately equal spacing between expansion joints. Joint spacing must not exceed 24 feet.
4. Expansion joint spacing in cip wall must not exceed 96 feet.
5. Provide 3/4" slab control joint @ 25'-0" oc. max, control joints to align with guard stanchions
6. Drains to align with weakened planes and be 1'-0" away from all expansion joints. See CALTRANS STD BRIDGE DETAIL B0-3
7. 6" square aluminum or galvanized steel wire 1/4" mesh hardware cloth, minimum wire diameter 0.025". Anchor firmly to backface.
8. Exposed wall drains must be located 3"$^{35}/_{64}$ above finished grade.
9. Limit of SECTION E-E Sta EE 19+59.25 to Sta EE 20+11.90. For location of SECTION E-E SEE "APPROACH WALLS STRUCTURE PLAN No. 2" sheet

LEGEND:

- Denotes limits of class 2 aggregate base backfill.
- Denotes limits of structure excavation type D
- Denotes limits of structure backfill
- Denotes concrete polyester overlay

DESIGN OVERSIGHT			
SIGN OFF DATE			
DESIGN	BY F. Franco	CHECKED J. Sierra	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY F. Franco	CHECKED J. Sierra	
QUANTITIES	BY F. Franco	CHECKED J. Sierra	

F. Franco
PROJECT ENGINEER

BRIDGE NO.	EDWARDS AVENUE POC APPROACH WALLS
20-0307	
POST MILES	EAST APPROACH DETAILS No. 1
21.5	

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

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PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
1-18-23	6-28-24	10-4-24	2-21-25	9	25

(2018057SRB_S6)
2018057

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	232	247

REGISTERED CIVIL ENGINEER — DATE 2/21/25

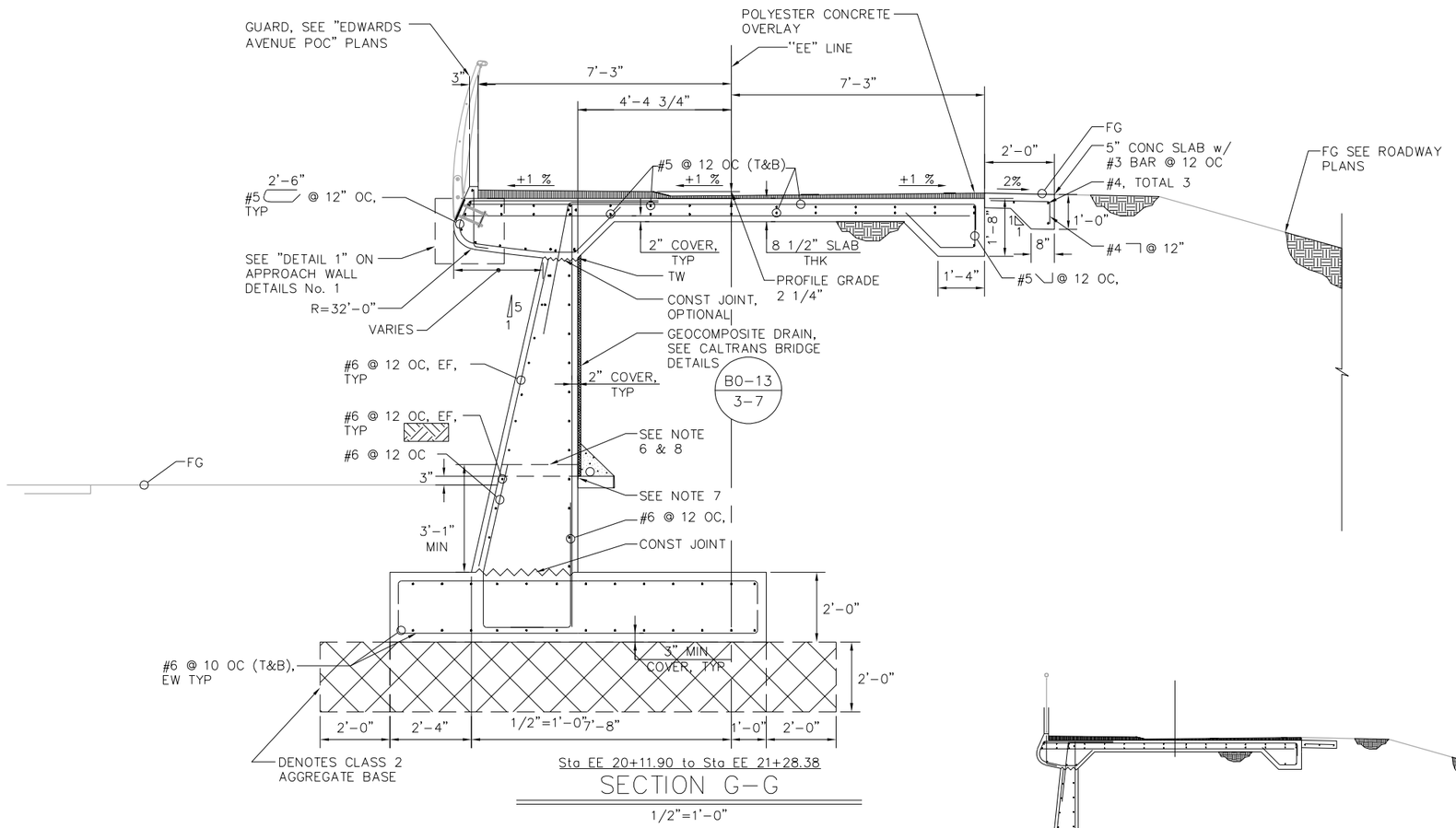
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JESUS FRANCISCO SIERRA — No. S3298 Exp. 3/31/25 — STRUCTURAL — STATE OF CALIFORNIA

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

SIERRA ENGINEERING GROUP
39500 STEVENSON PL., SUITE 107
FREMONT, CALIFORNIA 94539



Sta EE 20+11.90 to Sta EE 21+28.38

SECTION G-G

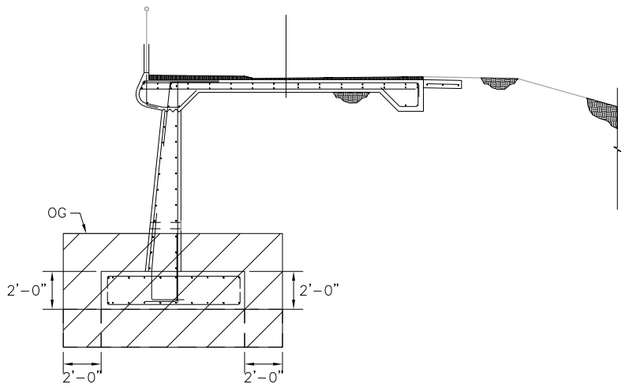
1/2"=1'-0"

NOTES:

1. Unless noted otherwise, wall alignment is parallel to the ``EE" line with offset indicated.
2. For alignment & profile, see ROADWAY plans.
3. Weakened plane joint in cip wall must be spaced at approximately equal spacing between expansion joints. Joint spacing must not exceed 24 feet.
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6. Drains to align with weakened planes and be 1'-0" away from all expansion joints. See CALTRANS STD BRIDGE DETAIL B0-3
7. 6" square aluminum or galvanized steel wire 1/4" mesh hardware cloth, minimum wire diameter 0.025". Anchor firmly to backface.
8. Exposed wall drains must be located 3"$\frac{35}{64}$ above finished grade.
9. Limit of SECTION G-G Sta EE 20+11.90 to Sta EE 21+28.38. For location of SECTION G-G SEE "APPROACH WALLS STRUCTURE PLAN No. 2" sheet

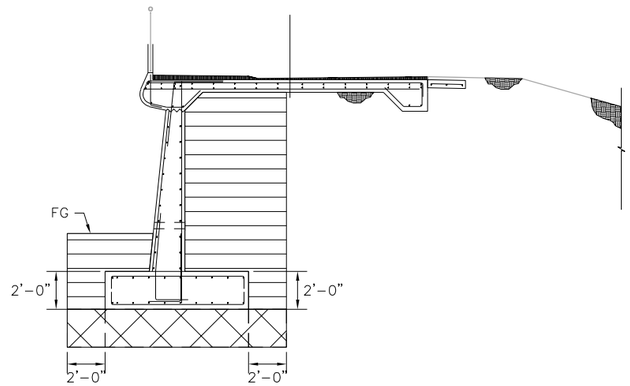
LEGEND:

- Denotes limits of class 2 aggregate base backfill.
- Denotes limits of structure excavation type D
- Denotes limits of structure backfill
- Denotes concrete polyester overlay



LIMITS OF PAYMENT FOR EXCAVATION

NTS



LIMITS OF PAYMENT FOR BACKFILL

NTS

DESIGN OVERSIGHT	DESIGN	BY F. Franco	CHECKED J. Sierra
SIGN OFF DATE	DETAILS	BY F. Franco	CHECKED J. Sierra
	QUANTITIES	BY F. Franco	CHECKED J. Sierra

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

F. Franco
PROJECT ENGINEER

BRIDGE NO.	EDWARDS AVENUE POC APPROACH WALLS
20-0307	EAST APPROACH DETAILS No. 2
POST MILES 21.5	

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
6-10-22		2-21-25	10-4-24	10	25

(201805/SRB_S6) 201805

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	233	247

REGISTERED CIVIL ENGINEER — DATE 2/21/25

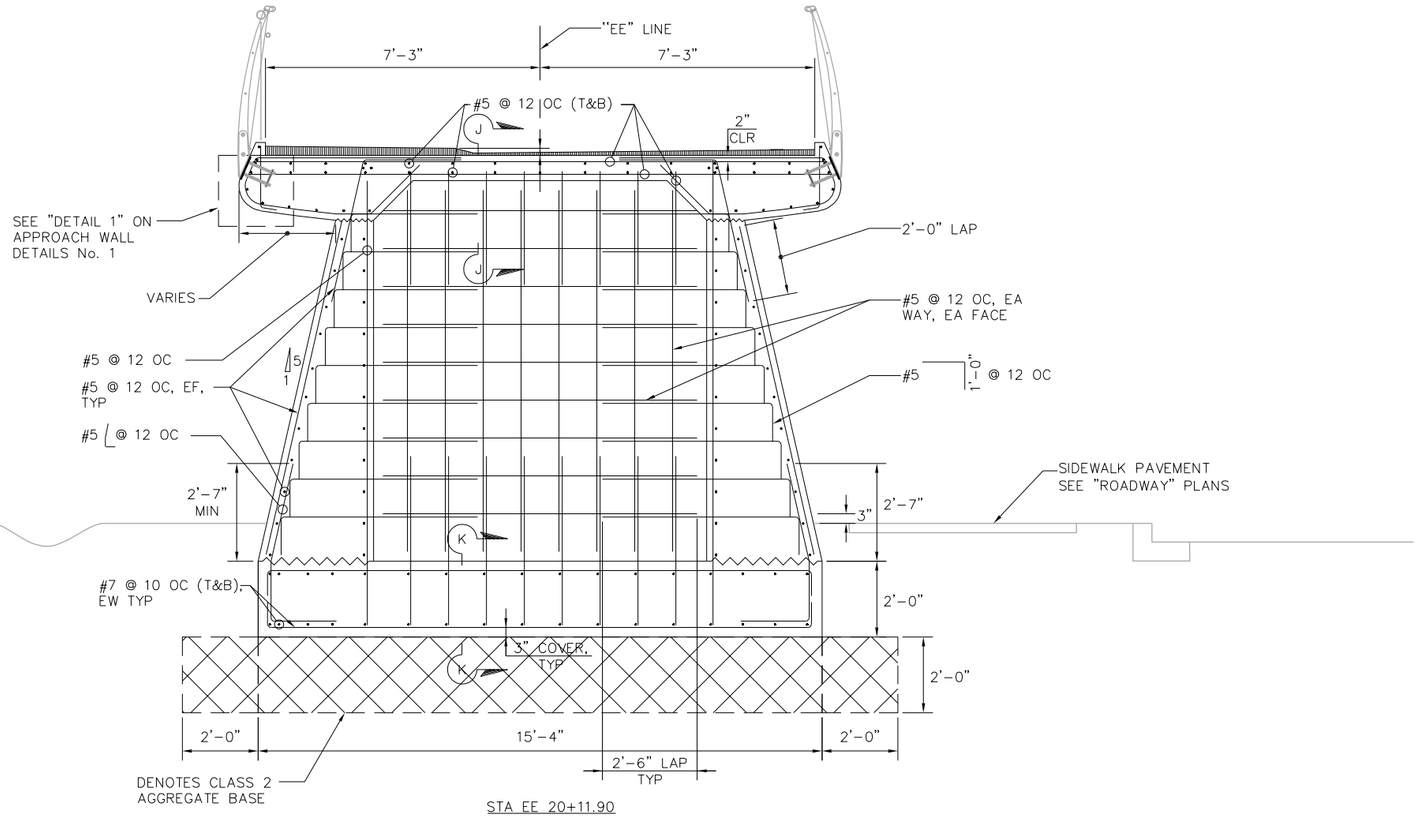
REGISTERED PROFESSIONAL ENGINEER — JESUS FRANCISCO SIERRA — No. S3298 Exp. 3/31/25 — STRUCTURAL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

SIERRA ENGINEERING GROUP
39500 STEVENSON PL., SUITE 107
FREMONT, CALIFORNIA 94539



STA EE 20+11.90

SECTION F-F

1/2"=1'-0"

NOTES:

1. Unless noted otherwise, wall alignment is parallel to the ``EE" line with offset indicated.
2. For alignment & profile, see ROADWAY plans.
3. Weakened plane joint in cip wall must be spaced at approximately equal spacing between expansion joints. Joint spacing must not exceed 24 feet.
4. Expansion joint spacing in cip wall must not exceed 96 feet.
5. Provide 3/4" slab control joint @ 25'-0" oc. max, control joints to align with guard stanchions
6. Drains to align with weakened planes and be 1'-0" away from all expansion joints. See CALTRANS STD BRIDGE DETAIL B0-3
7. 6" square aluminum or galvanized steel wire 1/4" mesh hardware cloth, minimum wire diameter 0.025". Anchor firmly to backface.
8. Exposed wall drains must be located 3"$^{35}/_{64}$ above finished grade.
9. Limit of SECTION F-F Sta EE 21+11.90. For location of SECTION F-F SEE "APPROACH WALLS STRUCTURE PLAN No. 2" sheet
10. See "SECTION E-E" on sheet "EAST APPROACH DETAILS NO. 1" for details not noted.

LEGEND:

Denotes limits of class 2 aggregate base backfill.

Denotes concrete polyester overlay

DESIGN OVERSIGHT			
SIGN OFF DATE			
DESIGN	BY F. Franco	CHECKED J. Sierra	
DETAILS	BY F. Franco	CHECKED J. Sierra	
QUANTITIES	BY F. Franco	CHECKED J. Sierra	

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

F. Franco
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC APPROACH WALLS
EAST APPROACH DETAILS No. 3

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

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PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
1-19-23	5-28-24	10-4-24	2-21-25	11	25

(201805\SRB_S6)
201805

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	234	247

REGISTERED CIVIL ENGINEER — DATE 2/21/25

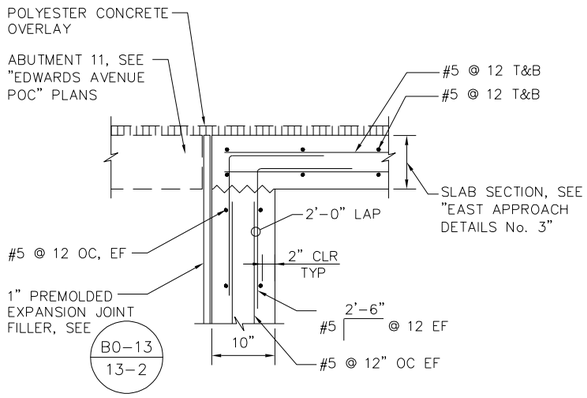
REGISTERED PROFESSIONAL ENGINEER — JESUS FRANCISCO SIERRA — No. S3298 Exp. 3/31/25 — STRUCTURAL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

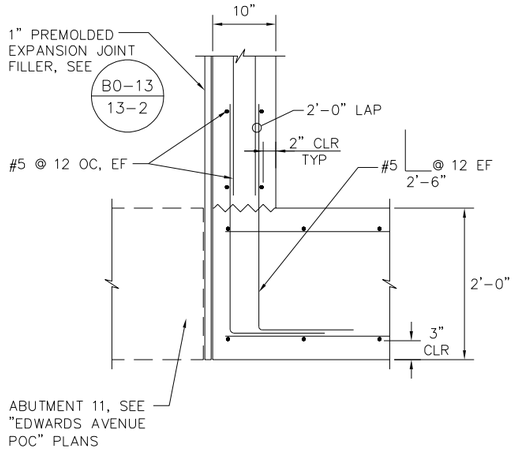
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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

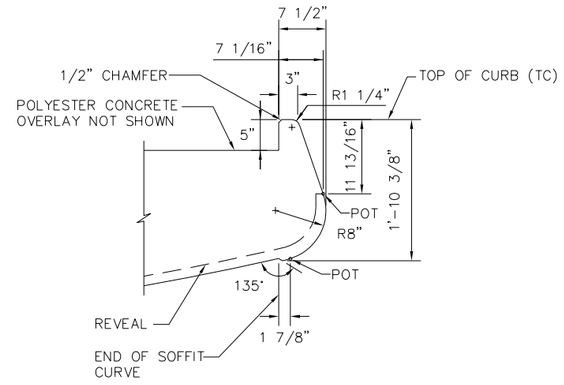
SIERRA ENGINEERING GROUP
39500 STEVENSON PL., SUITE 107
FREMONT, CALIFORNIA 94539



SECTION J–J
1"=1'-0"



SECTION K–K
1"=1'-0"



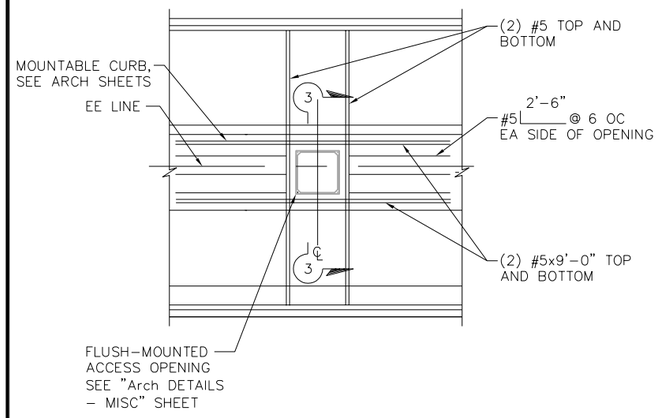
DETAIL 1
1"=1'-0"

NOTES:

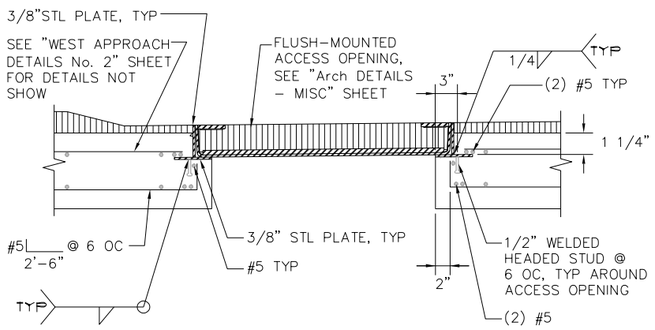
1. For location of SECTION J-J, see "EAST APPROACH DETAILS No. 2" SHEET
2. For location of SECTION K-K, see "EAST APPROACH DETAILS No. 2" SHEET
3. For location of Detail 1, see "WEST APPROACH DETAILS" and "EAST APPROACH DETAILS" Sheets
4. For location of DETAIL 2, SEE "APPROACH WALL STRUCTURE PLAN No. 1" SHEET

LEGEND:

Denotes concrete polyester overlay



DETAIL 2
NTS



FLUSH–MOUNTED ACCESS OPENING ASSEMBLY

DETAIL 3
NTS

DESIGN OVERSIGHT		DESIGN	BY F. Franco	CHECKED J. Sierra	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	F. Franco PROJECT ENGINEER	BRIDGE NO. 20-0307
SIGN OFF DATE		DETAILS	BY F. Franco	CHECKED J. Sierra			POST MILES 21.5
		QUANTITIES	BY F. Franco	CHECKED J. Sierra			

EDWARDS AVENUE POC APPROACH WALLS
APPROACH WALL DETAILS No. 1

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

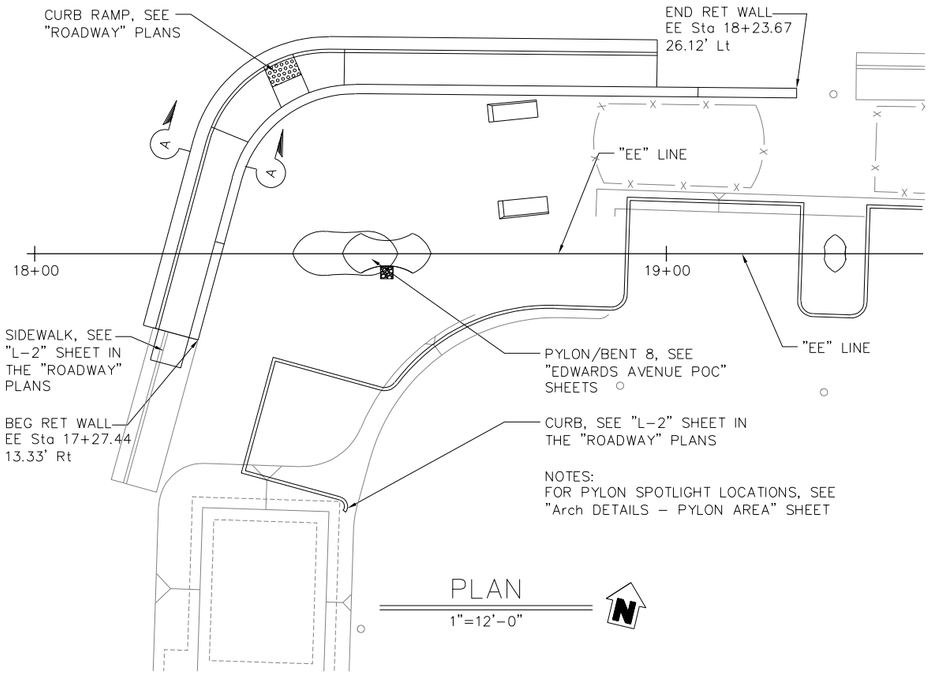
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

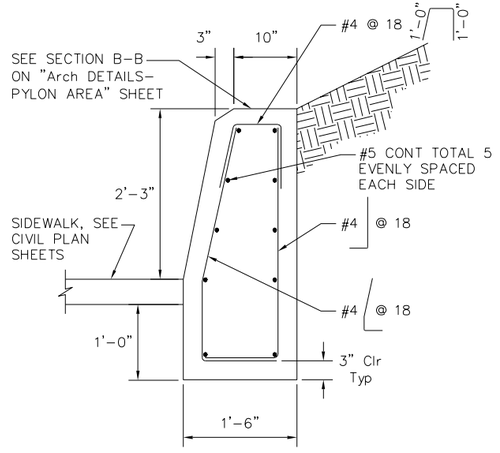
REVISION DATES				SHEET	OF
6-10-22		2-21-25	10-4-24	12	25

2018057 (2018057SRB_S6)



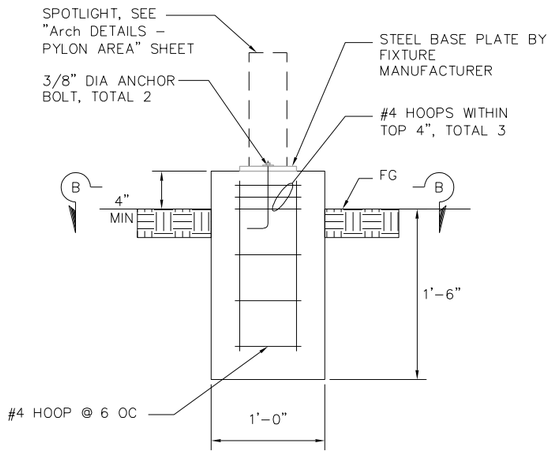
PLAN

1"=12'-0"



SECTION A-A

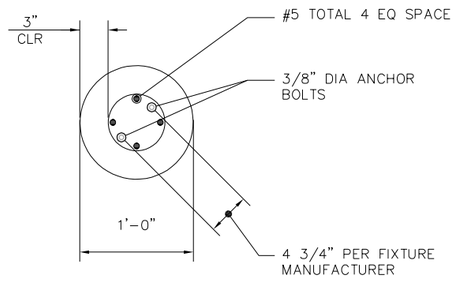
1"=1'-0"



PYLON SPOTLIGHT

DETAIL 1

1 1/2"=1'-0"



SECTION B-B

1 1/2"=1'-0"

NOTES:

1. See "Arch DETAILS - PYLON AREA" sheet for plyon spotlight locations.
2. See "DETAIL 1" for pylon spotlight foundation

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	235	247

2/21/25

REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — JESUS FRANCISCO SIERRA — No. S3298 Exp. 3/31/25 — STRUCTURAL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

SIERRA ENGINEERING GROUP
39500 STEVENSON PL., SUITE 107
FREMONT, CALIFORNIA 94539

DESIGN OVERSIGHT

SIGN OFF DATE

	BY	CHECKED
DESIGN	F. Franco	J. Sierra
DETAILS	F. Franco	J. Sierra
QUANTITIES	F. Franco	J. Sierra

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

F. Franco
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC APPROACH WALLS
BENT 8 RETAINING WALL DETAILS

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131

COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
1-10-23	6-28-24	10-4-24	2-21-25	13	25

(201805\SRB_S6)
201805

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	236	247

REGISTERED CIVIL ENGINEER — DATE 2/21/25

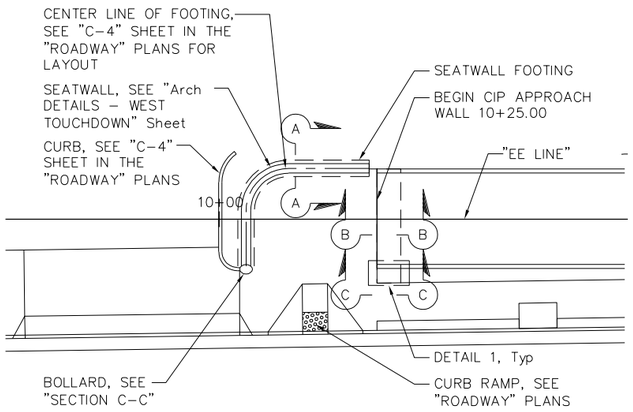
REGISTERED PROFESSIONAL ENGINEER — JESUS FRANCISCO SIERRA — No. S3298 Exp. 3/31/25 — STRUCTURAL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

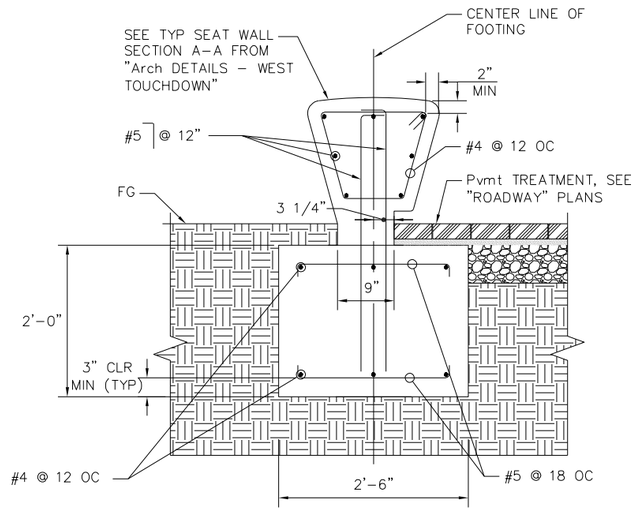
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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

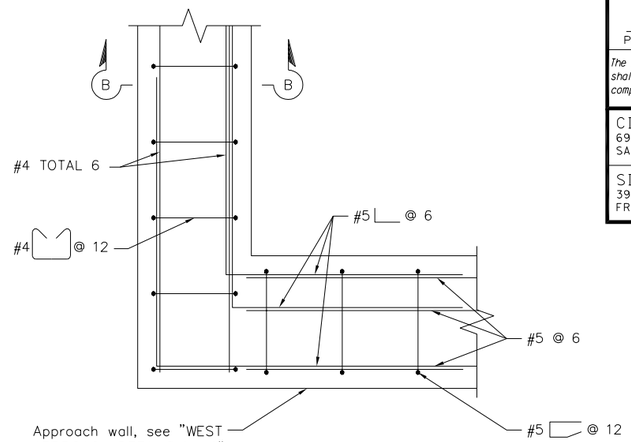
SIERRA ENGINEERING GROUP
39500 STEVENSON PL., SUITE 107
FREMONT, CALIFORNIA 94539



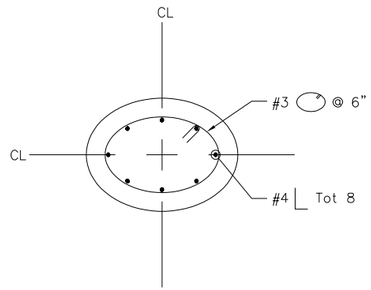
PLAN
1"=10'-0"



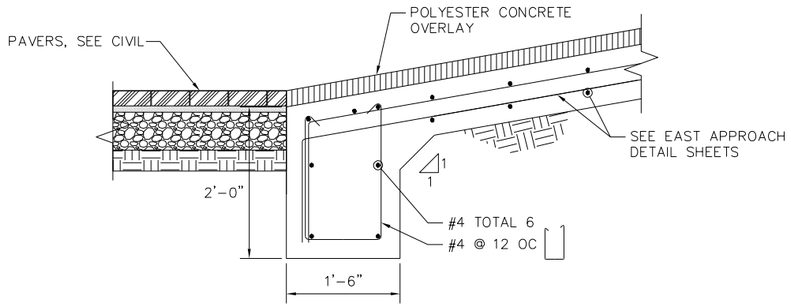
SECTION A-A
1"=1'-0"



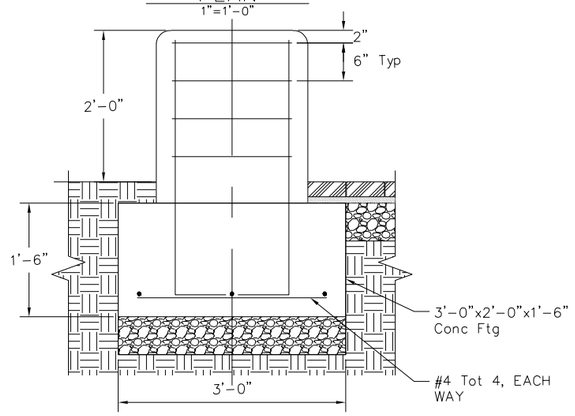
DETAIL 1
1"=1'-0"



Typ Conc BOLLARD
PLAN
1"=1'-0"



SECTION B-B
1"=1'-0"



Typ Conc BOLLARD
SECTION C-C
1"=1'-0"

DESIGN OVERSIGHT		DESIGN	BY F. Franco	CHECKED J. Sierra	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	F. Franco PROJECT ENGINEER	BRIDGE NO. 20-0307 / POST MILES 21.5
SIGN OFF DATE		DETAILS	BY F. Franco	CHECKED J. Sierra			EDWARDS AVENUE POC APPROACH WALLS
		QUANTITIES	BY F. Franco	CHECKED J. Sierra			WEST TOUCHDOWN STRUCTURAL PLAN

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)
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PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340
DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES: 1-19-23 | 6-28-24 | 10-4-24 | 2-21-25
SHEET 14 OF 25
2018057
(2018057SRB_S6)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	237	247

REGISTERED CIVIL ENGINEER — DATE 2/21/25

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JESUS FRANCISCO SIERRA — No. S3298 Exp. 3/31/25 — STRUCTURAL — STATE OF CALIFORNIA

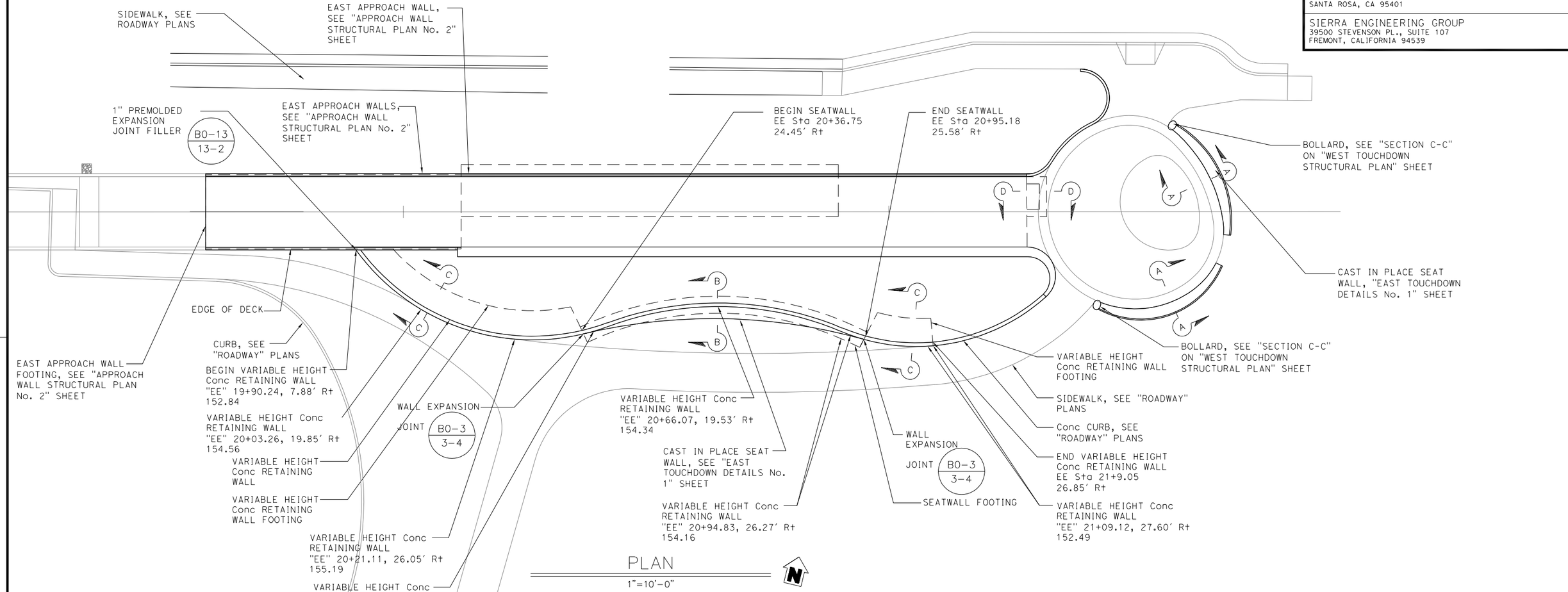
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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

SIERRA ENGINEERING GROUP
39500 STEVENSON PL., SUITE 107
FREMONT, CALIFORNIA 94539

NOTES:

1. For retaining wall notes see "GENERAL NOTES" sheet
2. Construct the variable height Conc retaining walls such that, The top of wall appears as a visually smooth curve between elevation points provided.



PLAN
1"=10'-0"

DESIGN OVERSIGHT		DESIGN	BY F. Franco	CHECKED J. Sierra	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
SIGN OFF DATE		DETAILS	BY F. Franco	CHECKED J. Sierra	F. Franco, PROJECT ENGINEER
		QUANTITIES	BY F. Franco	CHECKED J. Sierra	BRIDGE NO. 20-0307; POST MILES 21.5

EDWARDS AVENUE POC APPROACH WALLS
EAST TOUCHDOWN STRUCTURAL PLAN

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

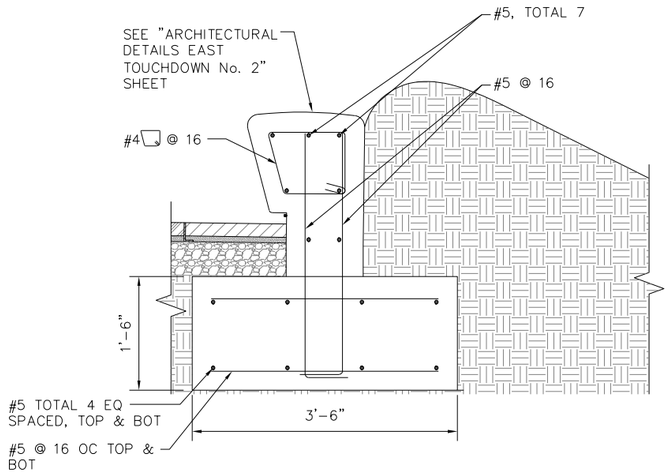
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
1-10-23	6-28-24	10-4-24	2-21-25	15	25

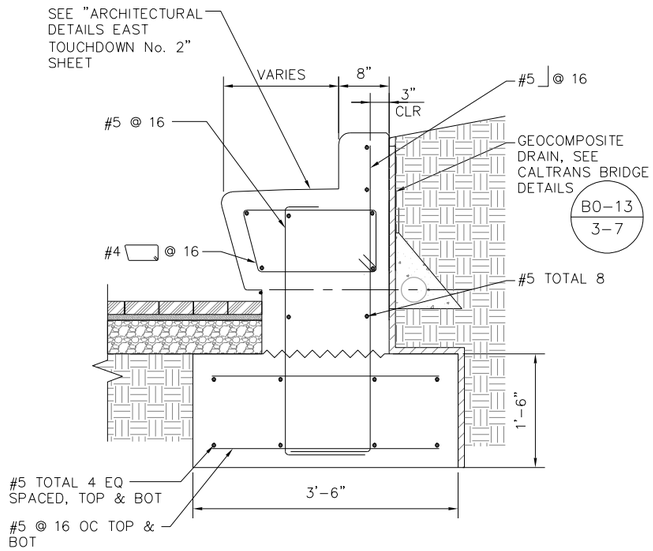
(20180575RB_S61) 20180575



SEATWALL

SECTION A–A

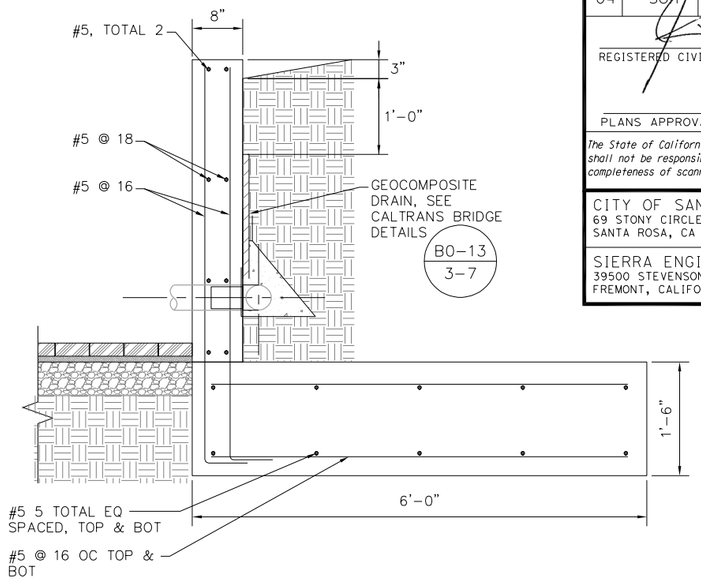
1"=1'-0"



SEATWALL

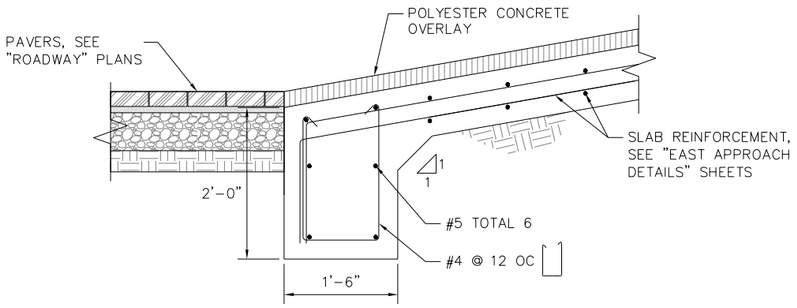
SECTION B–B

1"=1'-0"



SECTION C–C

1"=1'-0"



SECTION D–D

1"=1'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	238	247

REGISTERED CIVIL ENGINEER — DATE 2/21/25

REGISTERED PROFESSIONAL ENGINEER — JESUS FRANCISCO SIERRA — No. S3298 — Exp. 3/31/25 — STRUCTURAL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95401

SIERRA ENGINEERING GROUP
39500 STEVENSON PL., SUITE 107
FREMONT, CALIFORNIA 94539

DESIGN OVERSIGHT

SIGN OFF DATE

	BY	CHECKED
DESIGN	F. Franco	J. Sierra
DETAILS	F. Franco	J. Sierra
QUANTITIES	F. Franco	J. Sierra

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

F. Franco
PROJECT ENGINEER

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARDS AVENUE POC APPROACH WALLS
EAST TOUCHDOWN DETAILS No. 1

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

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PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES: 1-10-23 | 6-28-24 | 10-4-24 | 2-21-25

SHEET 16 OF 25

2018057 (2018057SRB_S61)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	239	247

5-2-25
LICENSED ARCHITECT — DATE

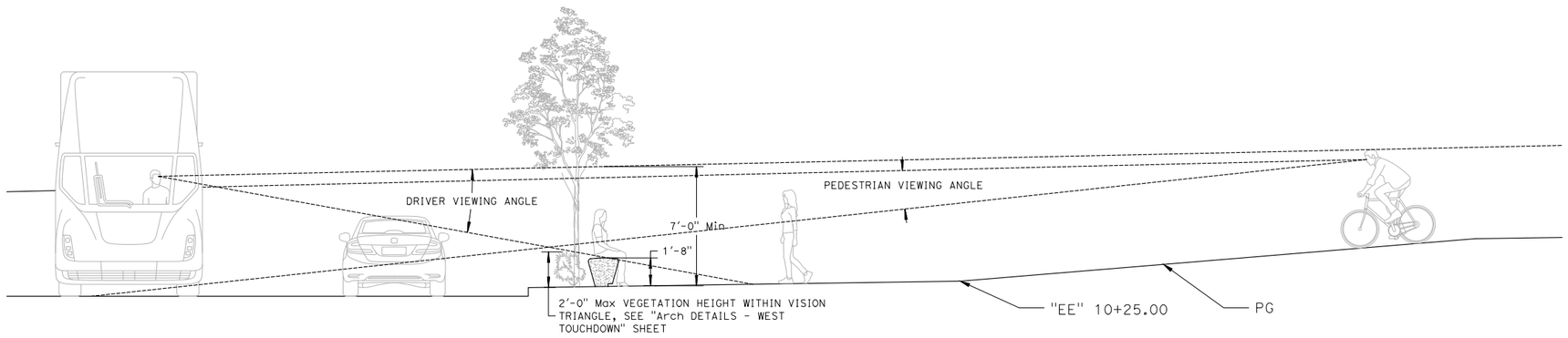
PLANS APPROVAL DATE

LICENSED ARCHITECT
STEVEN GROVER
No. C28814
Exp. 1/31/27
STATE OF CALIFORNIA

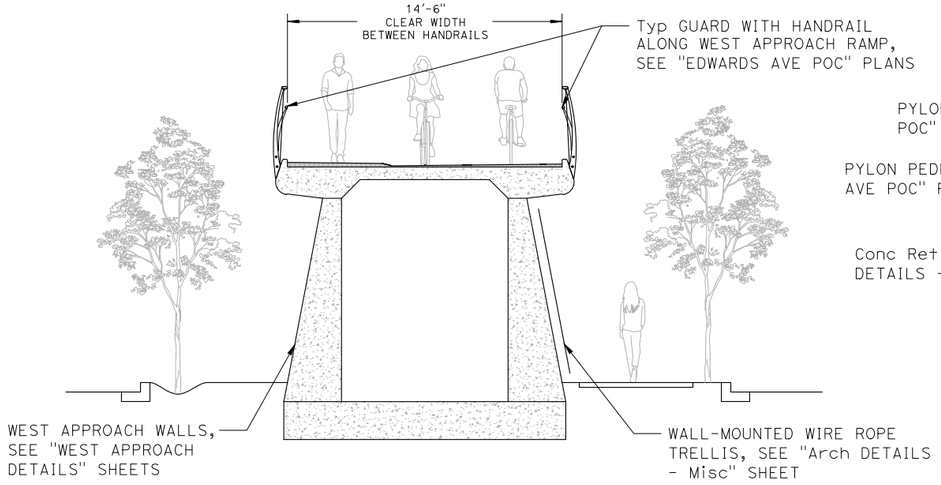
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STEVEN GROVER & ASSOCIATES
800 HEINZ AVE, STUDIO 11
BERKELEY, CA 94710

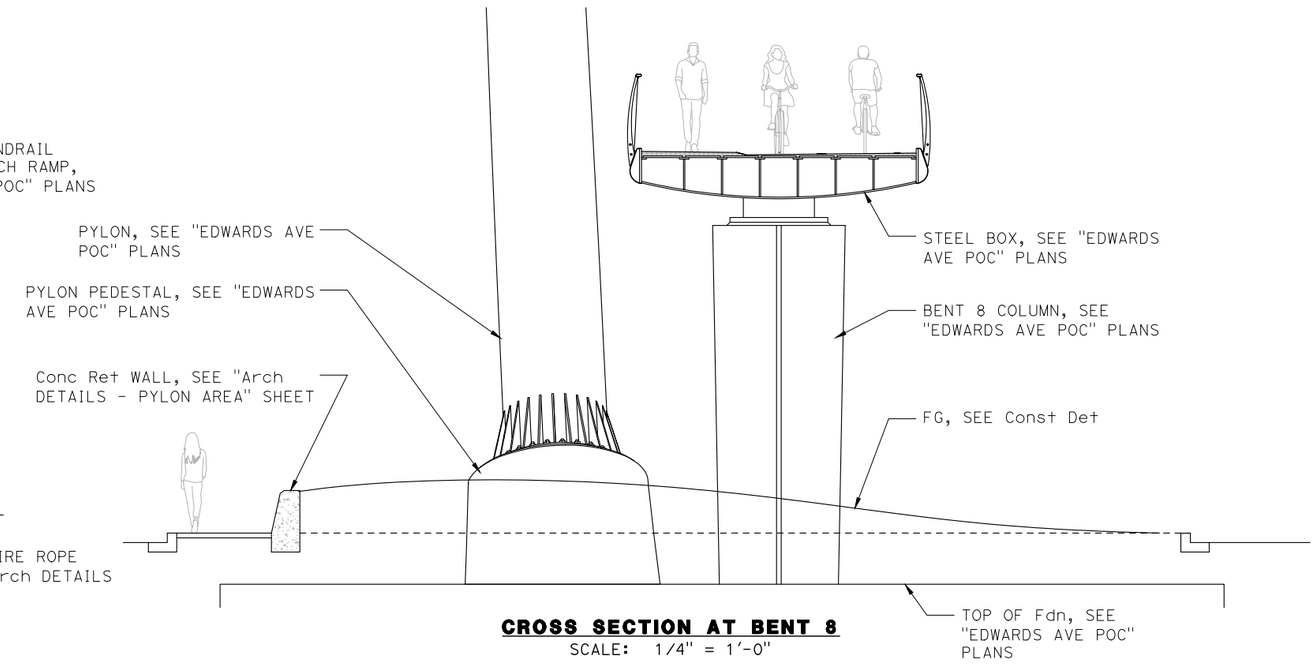
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404



CROSS SECTION AT WEST TOUCHDOWN
SCALE: 1/4" = 1'-0"



CROSS SECTION AT Sta 11+22 TO Sta 11+88
SCALE: 1/4" = 1'-0"



CROSS SECTION AT BENT 8
SCALE: 1/4" = 1'-0"

DESIGN OVERSIGHT

SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Darling	S. Grover
DETAILS	J. Darling	S. Grover
QUANTITIES	J. Darling	O. Tsai

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

STEVEN GROVER
PROJECT ARCHITECT

BRIDGE NO.	20-0307
POST MILES	21.5

EDWARD AVE POC APPROACH WALLS
ARCHITECTURAL SECTIONS No. 1

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => Dec 20, 2024 TIME PLOTTED => 5:00pm
FILE => SR_101_ARCH Publish Set.dwg USERNAME => SGA

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131

COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
6-18-22		2-21-25	5-2-25	17	25

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	240	247

5-2-25
LICENSED ARCHITECT — DATE

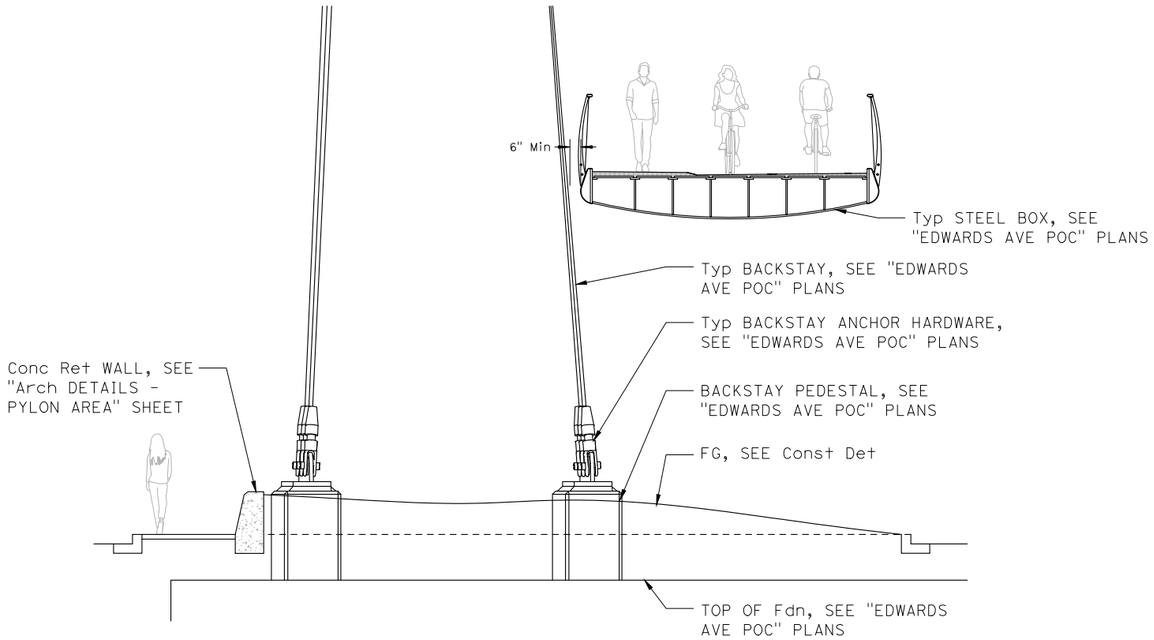
PLANS APPROVAL DATE

LICENSED ARCHITECT
STEVEN GROVER
No. C28814
Exp. 1/31/27
STATE OF CALIFORNIA

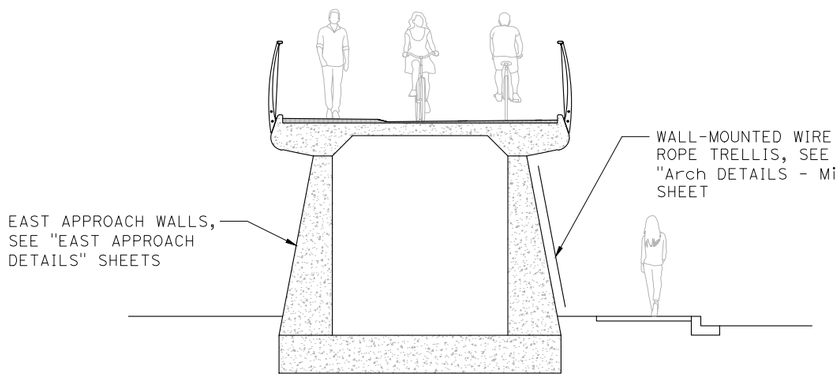
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STEVEN GROVER & ASSOCIATES
800 HEINZ AVE, STUDIO 11
BERKELEY, CA 94710

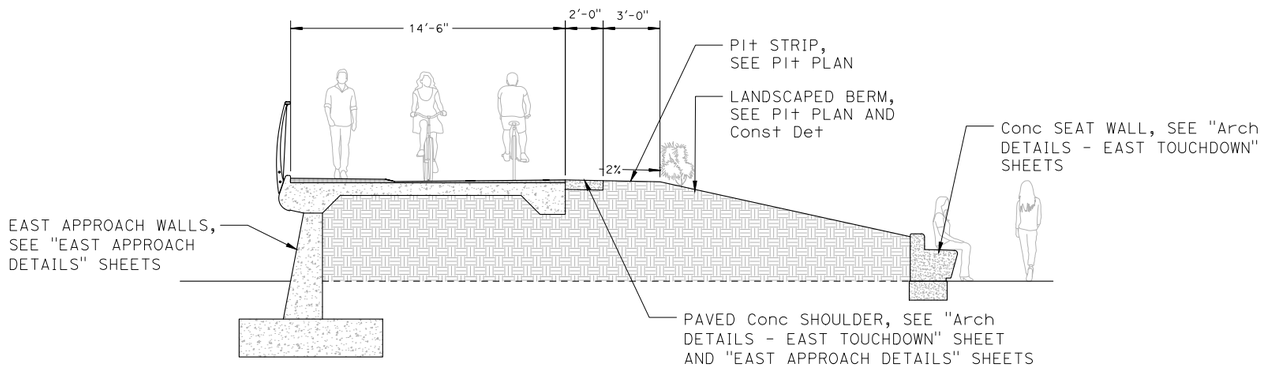
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404



CROSS SECTION AT Sta 17+80.90
SCALE: 1/4" = 1'-0"



CROSS SECTION AT Sta 19+34.75 TO 20+11.75
SCALE: 1/4" = 1'-0"



CROSS SECTION AT Sta 20+11.75 TO 21+00
SCALE: 1/4" = 1'-0"

DESIGN OVERSIGHT

SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Darling	S. Grover
DETAILS	J. Darling	S. Grover
QUANTITIES	J. Darling	O. Tsai

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

STEVEN GROVER
PROJECT ARCHITECT

BRIDGE NO.	EDWARD AVE POC APPROACH WALLS
20-0307	
POST MILES	ARCHITECTURAL SECTIONS No. 2
21.5	

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

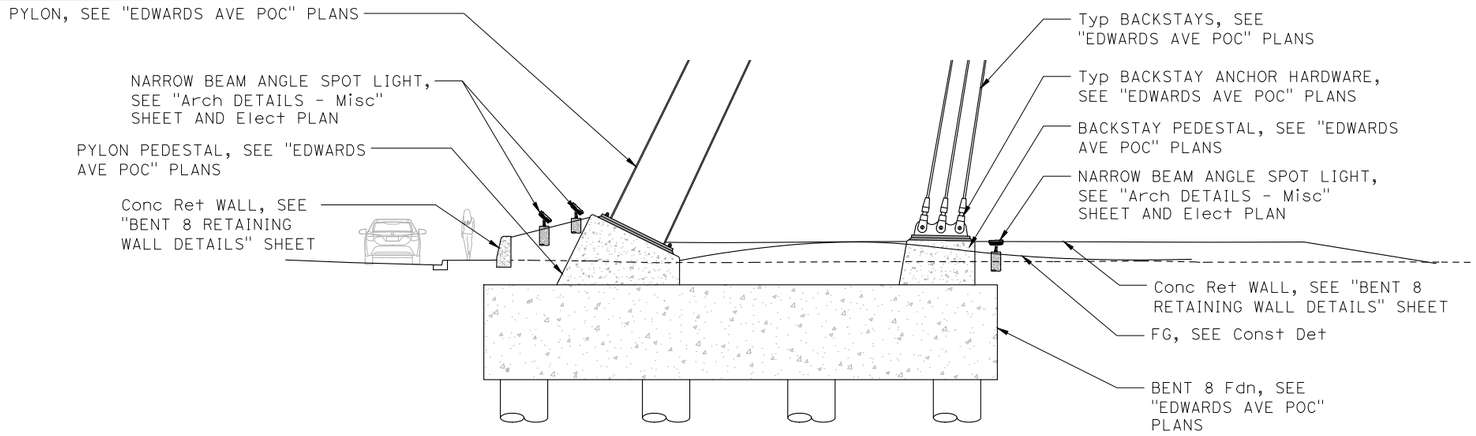
DATE PLOTTED => Dec 20, 2024 TIME PLOTTED => 5:00pm
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

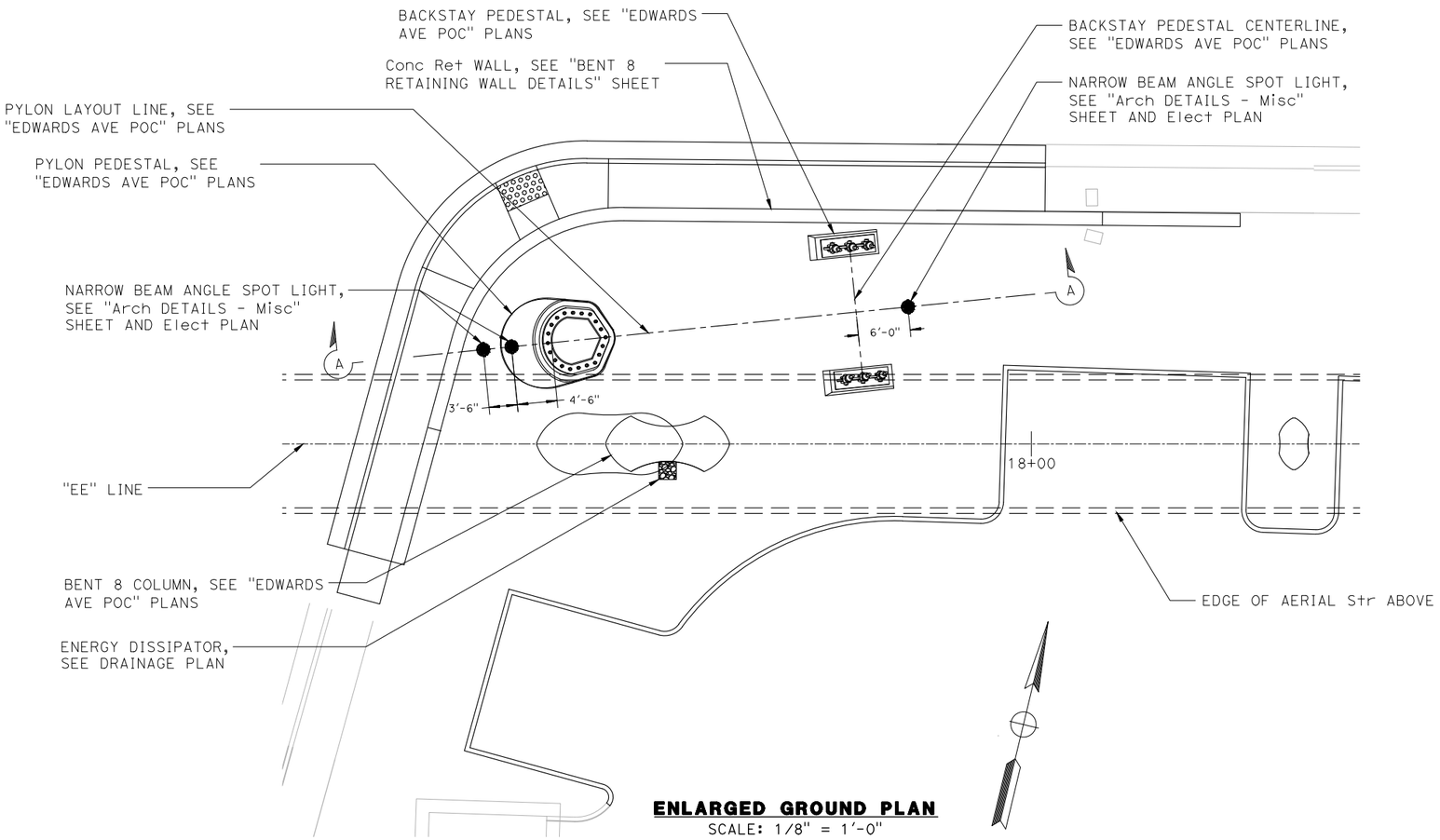
PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
6-19-22		2-21-25	5-2-25	18	29



SECTION A-A
SCALE: 1/8" = 1'-0"



ENLARGED GROUND PLAN
SCALE: 1/8" = 1'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	241	247

LICENSED ARCHITECT — 5-2-25 DATE

PLANS APPROVAL DATE

LICENSED ARCHITECT — STEVEN GROVER No. C28814 Exp. 1/31/27 — STATE OF CALIFORNIA

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STEVEN GROVER & ASSOCIATES
800 HEINZ AVE, STUDIO 11
BERKELEY, CA 94710

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

DESIGN OVERSIGHT

SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Darling	S. Grover
DETAILS	J. Darling	S. Grover
QUANTITIES	J. Darling	O. Tsai

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

STEVEN GROVER
PROJECT ARCHITECT

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARD AVE POC APPROACH WALLS
Arch DETAILS - PYLON AREA

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => Dec 20, 2024 TIME PLOTTED => 5:00pm
FILE => SR_101_ARCH Publish Set.dwg USERNAME => SGA

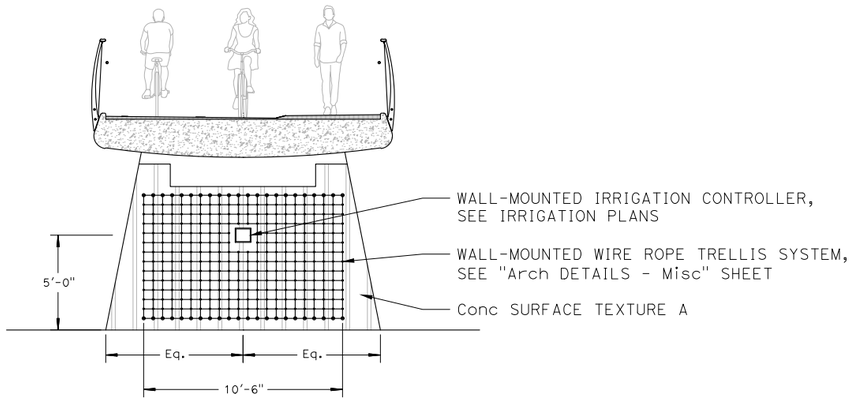
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131

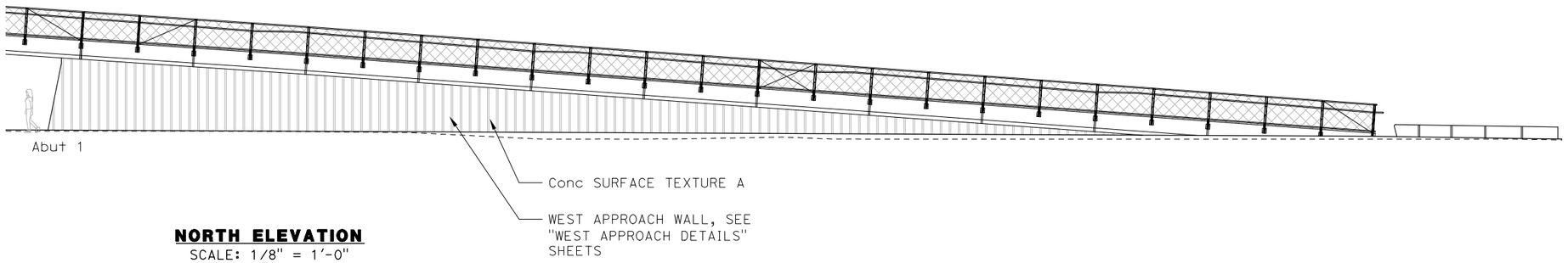
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

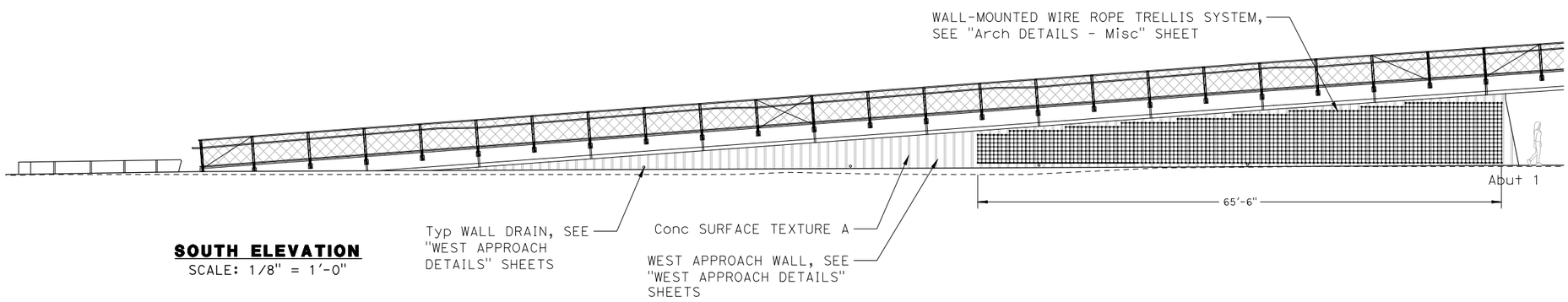
REVISION DATES				SHEET	OF
6-10-22		2-21-25	5-2-25	19	25



Abut 1 EAST ELEVATION
SCALE: 1/4 = 1'-0"



NORTH ELEVATION
SCALE: 1/8" = 1'-0"



SOUTH ELEVATION
SCALE: 1/8" = 1'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	242	247

LICENSED ARCHITECT — DATE 5-2-25

PLANS APPROVAL DATE

LICENSED ARCHITECT — STEVEN GROVER No. C28814 Exp. 1/31/27 — STATE OF CALIFORNIA

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STEVEN GROVER & ASSOCIATES
800 HEINZ AVE, STUDIO 11
BERKELEY, CA 94710

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

NOTES:

1. Infill hatch is representative and not to scale.
2. Vertical hatch depicting concrete surface texture on approach and abutment walls is representative and not to scale.
3. Extend concrete surface texture to 1'-0" minimum below finished grade.

DESIGN OVERSIGHT

SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Darling	S. Grover
DETAILS	J. Darling	S. Grover
QUANTITIES	J. Darling	O. Tsai

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

STEVEN GROVER
PROJECT ARCHITECT

BRIDGE NO. 20-0307
POST MILES 21.5

EDWARD AVE POC APPROACH WALLS
Arch DETAILS - WEST APPROACH WALLS

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => Dec 20, 2024 TIME PLOTTED => 5:00pm
FILE => SR_101_ARCH Publish Set.dwg USERNAME => SGA

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131

COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
~~5-19-22~~		~~2-24-25~~	5-2-25	20	25

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	243	247

5-2-25
LICENSED ARCHITECT — DATE

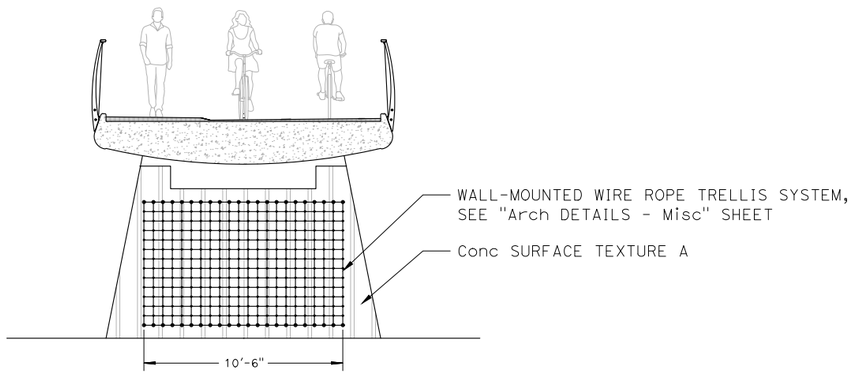
PLANS APPROVAL DATE

LICENSED ARCHITECT
STEVEN GROVER
No. C28814
Exp. 1/31/27
STATE OF CALIFORNIA

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STEVEN GROVER & ASSOCIATES
800 HEINZ AVE, STUDIO 11
BERKELEY, CA 94710

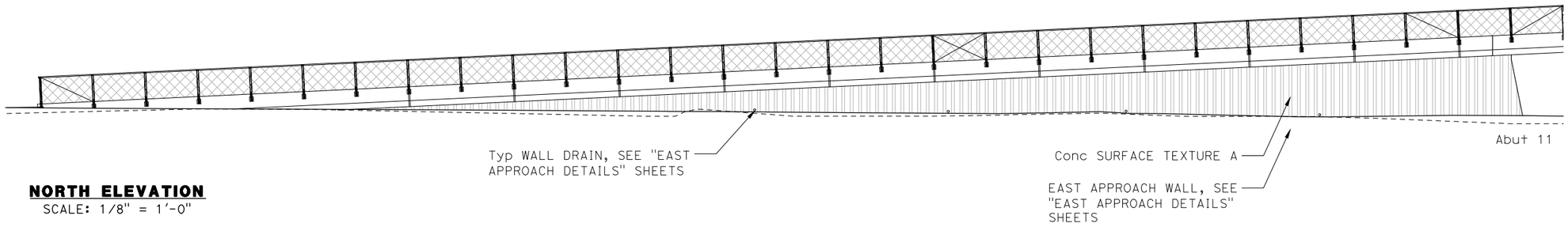
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404



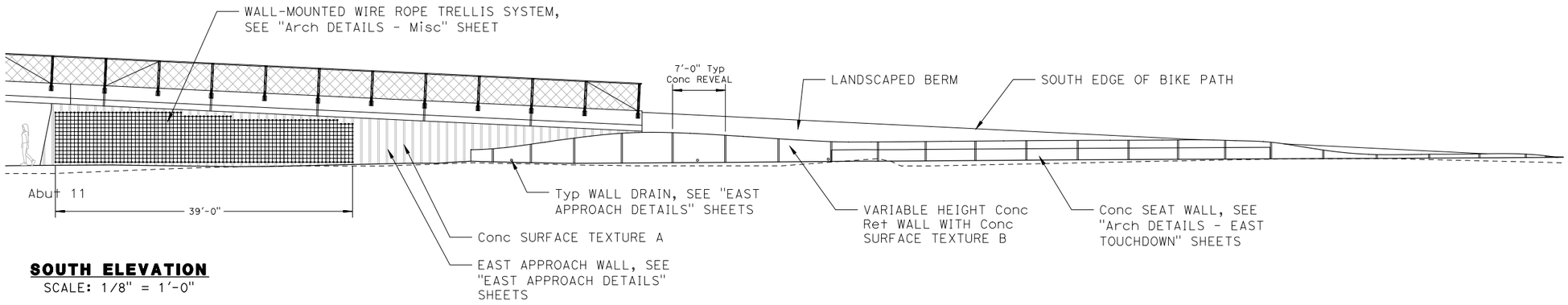
Abut 11 WEST ELEVATION
SCALE: 1/4" = 1'-0"

NOTES:

1. Infill hatch is representative and not to scale.
2. Vertical hatch depicting concrete surface texture on approach and abutment walls is representative and not to scale.
3. Extend concrete surface texture to 1'-0" minimum below finished grade.



NORTH ELEVATION
SCALE: 1/8" = 1'-0"



SOUTH ELEVATION
SCALE: 1/8" = 1'-0"

DESIGN OVERSIGHT

SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Darling	S. Grover
DETAILS	J. Darling	S. Grover
QUANTITIES	J. Darling	O. Tsai

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

STEVEN GROVER
PROJECT ARCHITECT

BRIDGE NO.	20-0307
POST MILES	21.5

EDWARD AVE POC APPROACH WALLS
Arch DETAILS - EAST APPROACH WALLS

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => Dec 20, 2024 TIME PLOTTED => 5:00pm
FILE => SR_101_ARCH Publish Set.dwg USERNAME => SGA

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131

COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES			
~~5-19-22~~		~~2-21-25~~	5-2-25

SHEET	OF
21	25

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	244	247

5-2-25
LICENSED ARCHITECT DATE

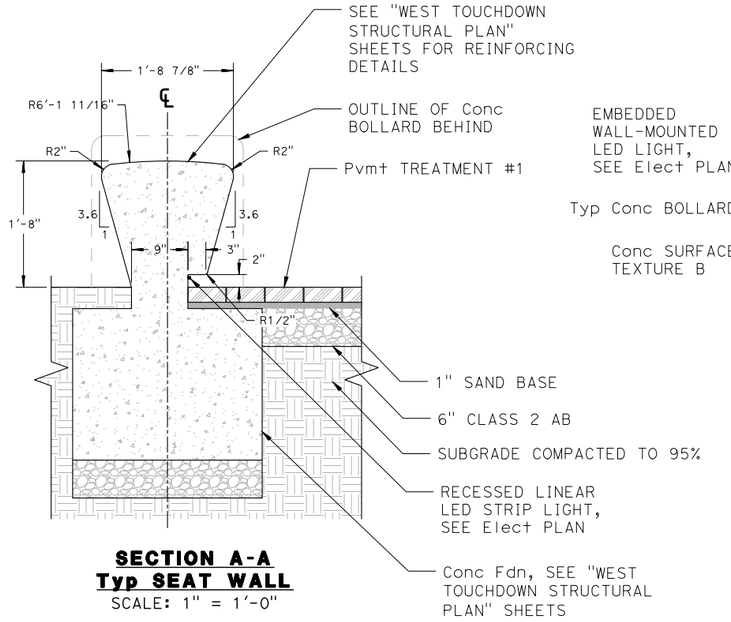
PLANS APPROVAL DATE

LICENSED ARCHITECT
STEVEN GROVER
No. C28814
Exp. 1/31/27
STATE OF CALIFORNIA

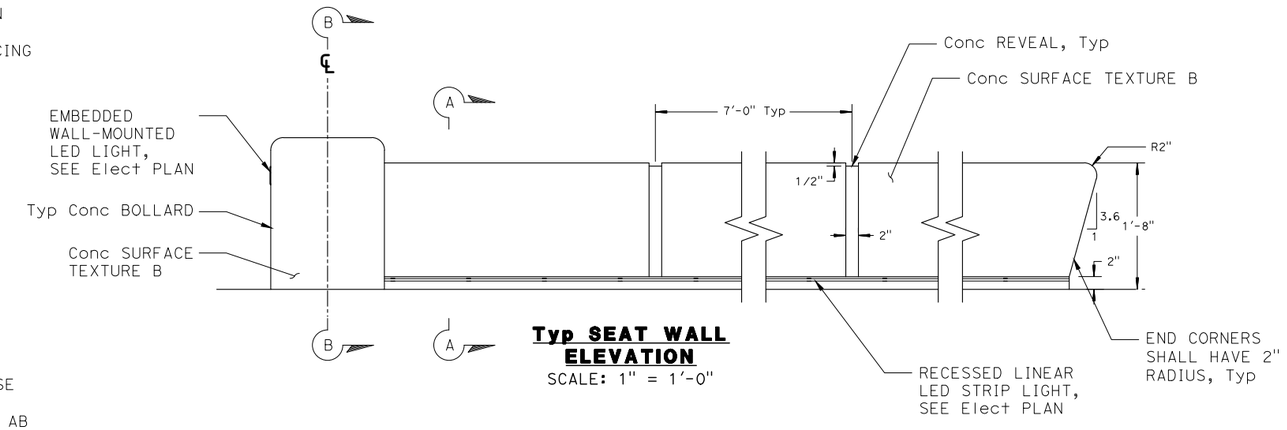
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BERKELEY, CA 94710

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404



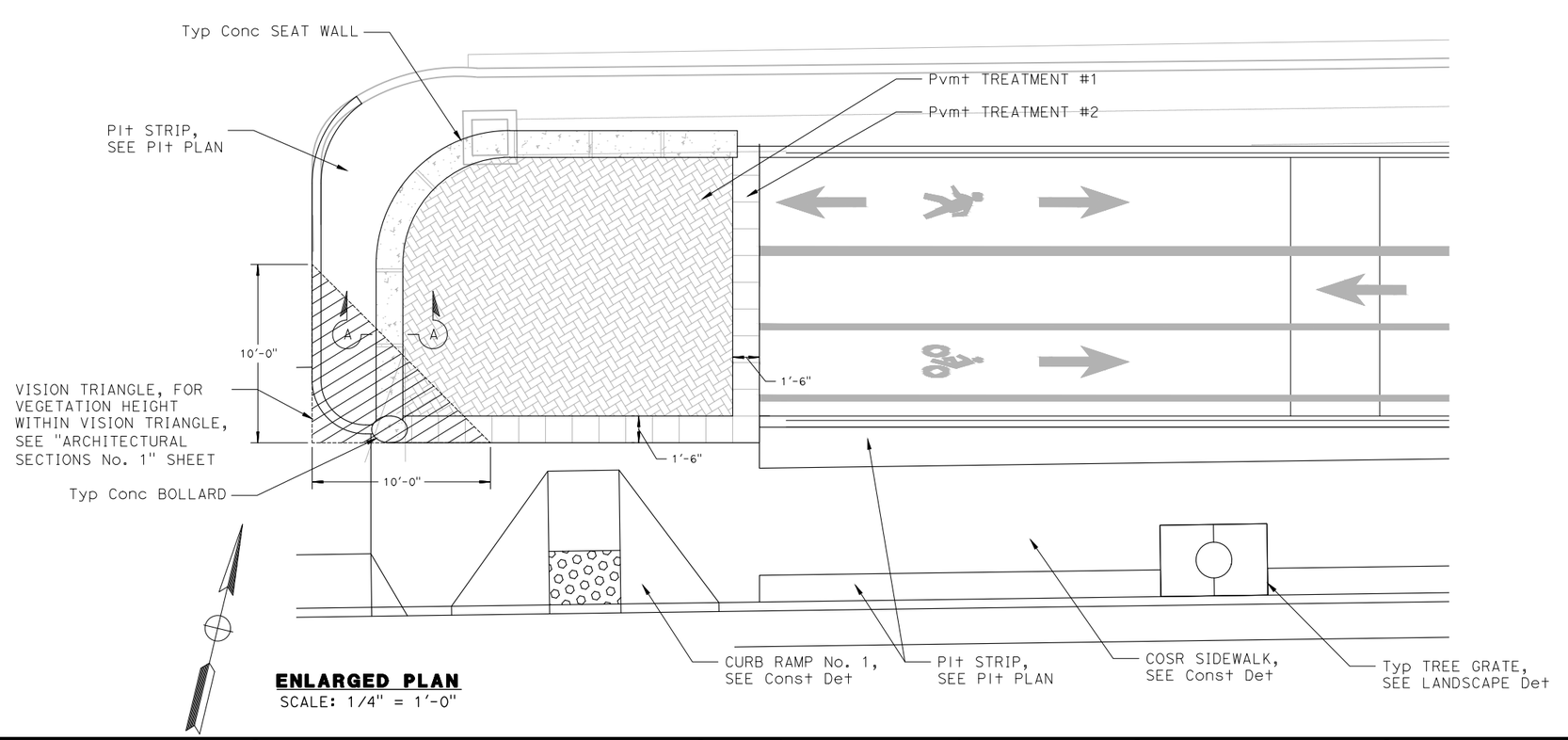
SECTION A-A
Typ SEAT WALL
SCALE: 1" = 1'-0"



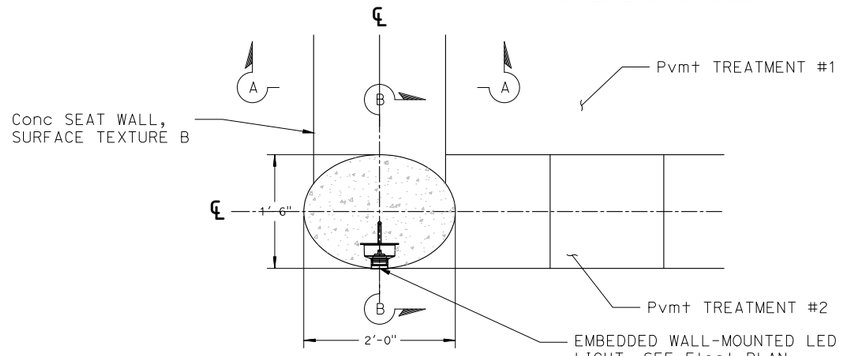
Typ SEAT WALL ELEVATION
SCALE: 1" = 1'-0"

NOTES:

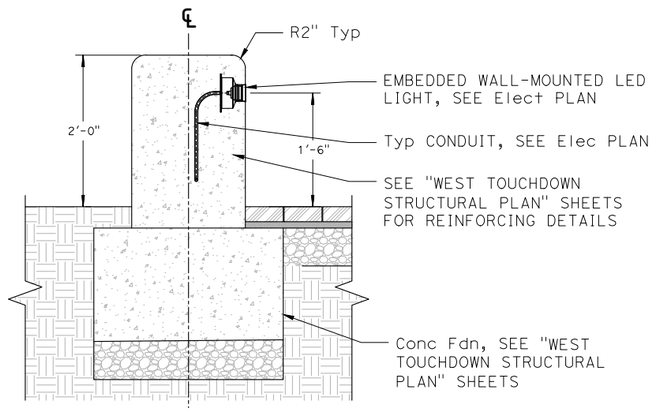
1. Hatches depicting pavement surface treatment are representative only and not to scale.
2. Do not apply any surface texture to concrete reveals.
3. See "WEST TOUCHDOWN STRUCTURAL PLAN" for details not shown.



ENLARGED PLAN
SCALE: 1/4" = 1'-0"



Typ Conc BOLLARD PLAN
SCALE: 1" = 1'-0"



SECTION B-B
Typ Conc BOLLARD
SCALE: 1" = 1'-0"

DESIGN OVERSIGHT

SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Darling	S. Grover
DETAILS	J. Darling	S. Grover
QUANTITIES	J. Darling	O. Tsai

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

STEVEN GROVER
PROJECT ARCHITECT

BRIDGE NO.	20-0307
POST MILES	21.5

EDWARD AVE POC APPROACH WALLS
Arch DETAILS - WEST TOUCHDOWN

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => Dec 20, 2024 TIME PLOTTED => 5:00pm
FILE => SR_101_ARCH Publish Set.dwg USERNAME => SGA

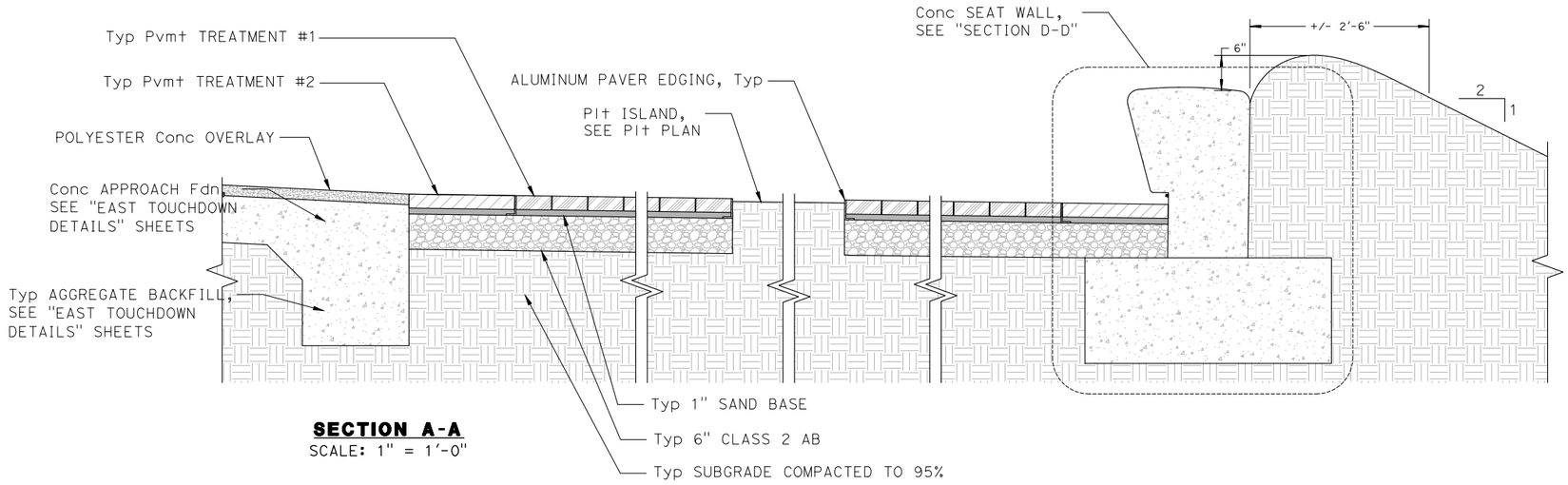
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131

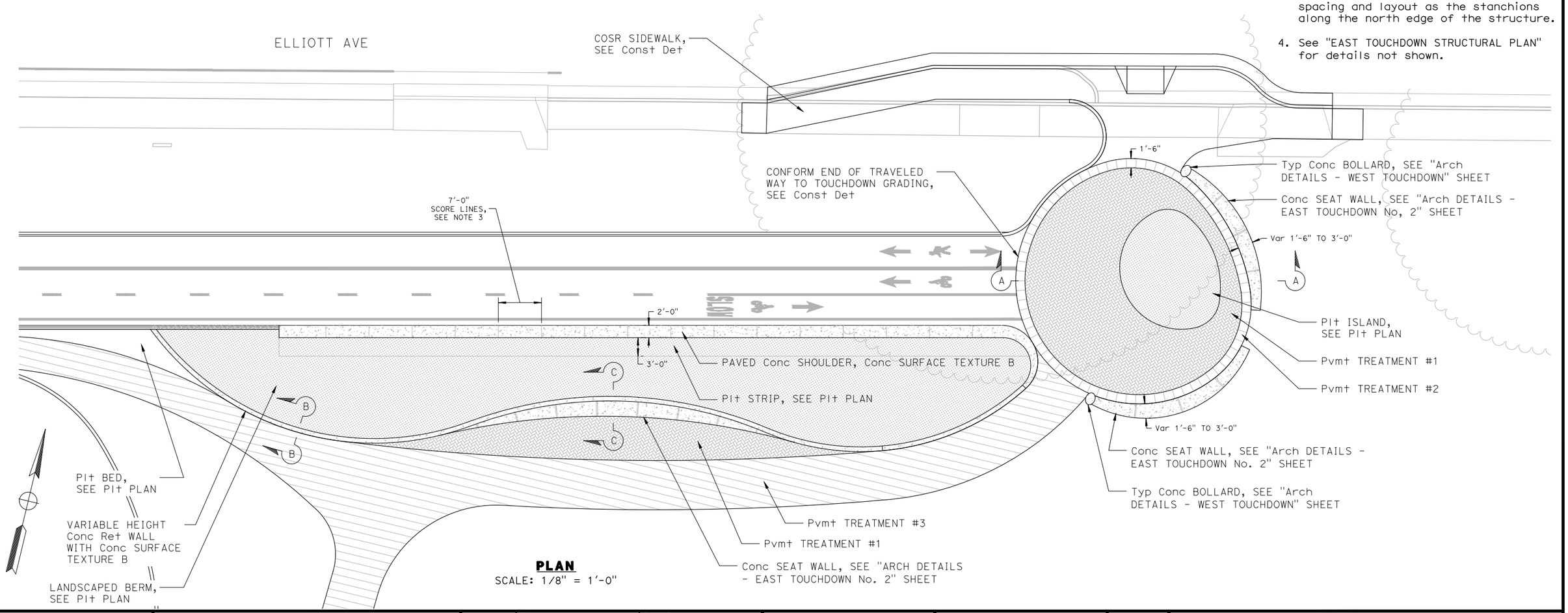
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
6-10-22		2-21-25	5-2-25	22	25



SECTION A-A
SCALE: 1" = 1'-0"



PLAN
SCALE: 1/8" = 1'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	245	247

5-2-25
LICENSED ARCHITECT — DATE

LICENSED ARCHITECT
STEVEN GROVER
No. C28814
Exp. 1/31/27
STATE OF CALIFORNIA

PLANS APPROVAL DATE

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800 HEINZ AVE, STUDIO 11
BERKELEY, CA 94710

CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404

NOTES:

1. Hatches depicting pavement surface treatment are representative and not to scale.
2. For sections "B-B" and "C-C" and "D-D", see "ARCH DETAILS - EAST TOUCHDOWN No. 2" sheet.
3. Score lines shall follow the same spacing and layout as the stanchions along the north edge of the structure.
4. See "EAST TOUCHDOWN STRUCTURAL PLAN" for details not shown.

DESIGN OVERSIGHT

SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Darling	S. Grover
DETAILS	J. Darling	S. Grover
QUANTITIES	J. Darling	O. Tsai

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

STEVEN GROVER
PROJECT ARCHITECT

BRIDGE NO.	EDWARD AVE POC APPROACH WALLS
20-0307	
POST MILES	Arch DETAILS - EAST TOUCHDOWN No. 1
21.5	

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => Dec 20, 2024 TIME PLOTTED => 5:00pm
FILE => SR_101_ARCH Publish Set.dwg USERNAME => SGA

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131

COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
6-10-22		2-21-25	5-2-25	23	25

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	246	247

5-2-25
LICENSED ARCHITECT — DATE

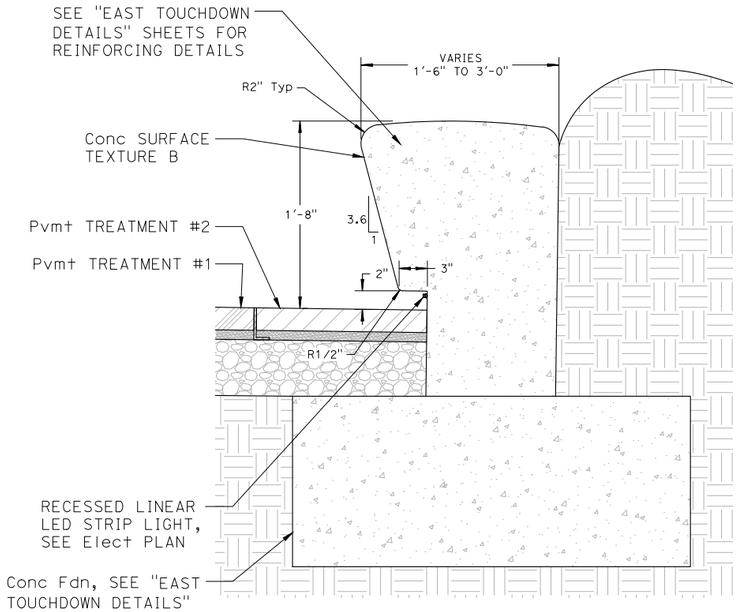
PLANS APPROVAL DATE

LICENSED ARCHITECT
STEVEN GROVER
No. C28814
Exp. 1/31/27
STATE OF CALIFORNIA

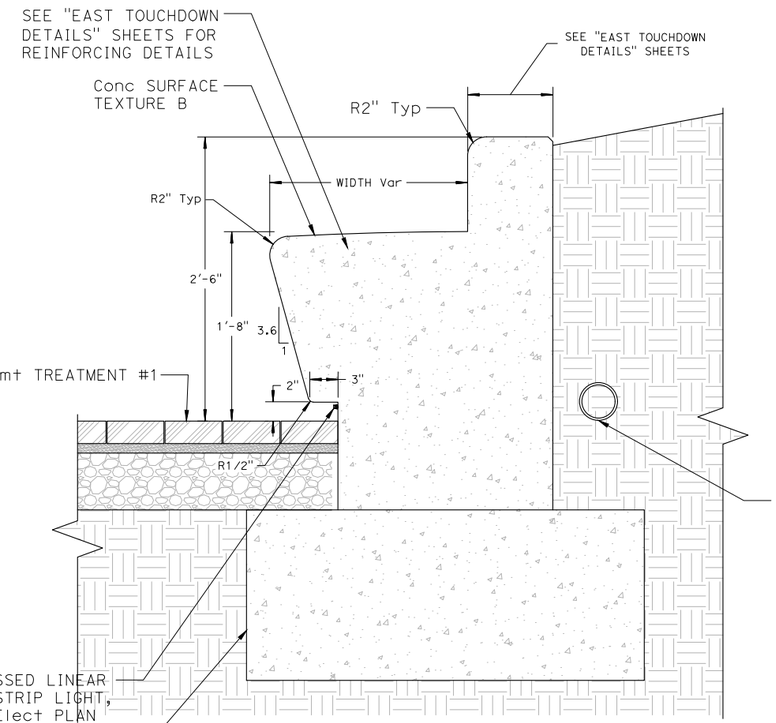
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BERKELEY, CA 94710

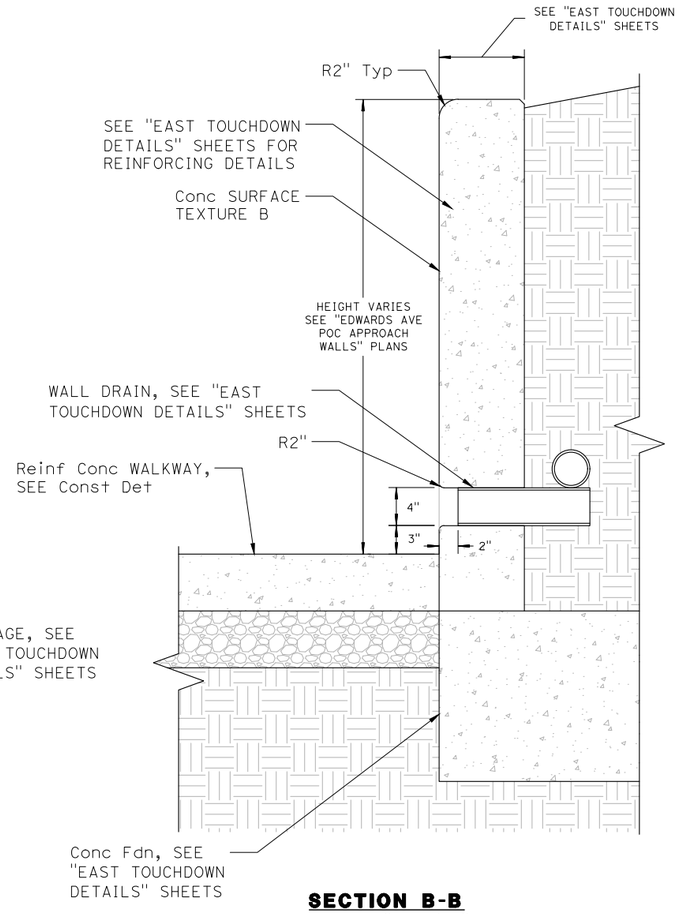
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404



SECTION D-D
SCALE: 3" = 1'-0"



SECTION C-C
SCALE: 3" = 1'-0"



SECTION B-B
SCALE: 3" = 1'-0"

DESIGN OVERSIGHT

SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Darling	S. Grover
DETAILS	J. Darling	S. Grover
QUANTITIES	J. Darling	O. Tsai

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

STEVEN GROVER
PROJECT ARCHITECT

BRIDGE NO.	20-0307
POST MILES	21.5

EDWARD AVE POC APPROACH WALLS
Arch DETAILS - EAST TOUCHDOWN No. 2

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => Dec 20, 2024 TIME PLOTTED => 5:00pm
FILE => SR_101_ARCH Publish Set.dwg USERNAME => SGA

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131
COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
6-10-22		2-21-25	5-2-25	24	25

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	101	21.5	247	247

5-2-25
LICENSED ARCHITECT — DATE

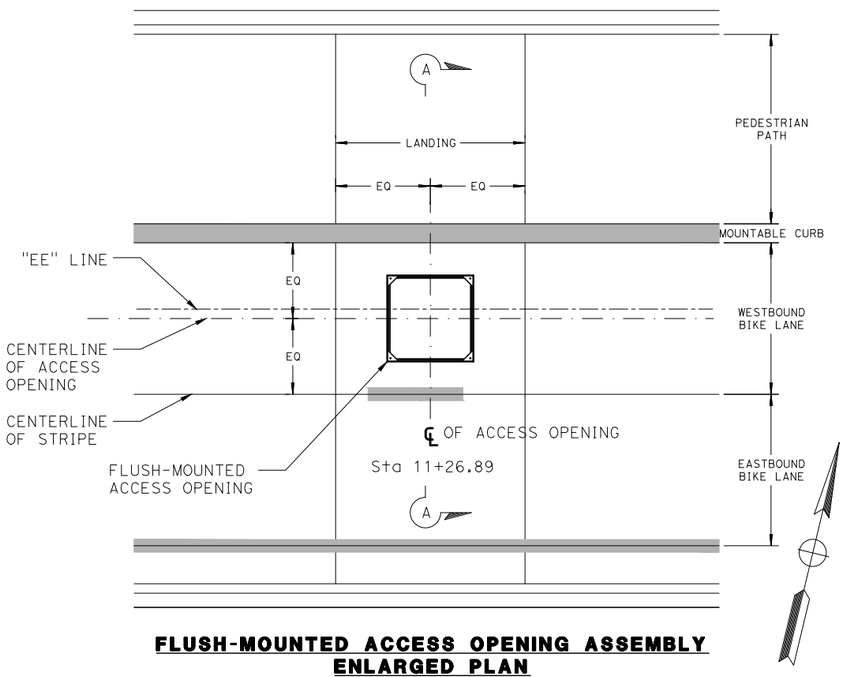
PLANS APPROVAL DATE

LICENSED ARCHITECT
STEVEN GROVER
No. C28814
Exp. 1/31/27
STATE OF CALIFORNIA

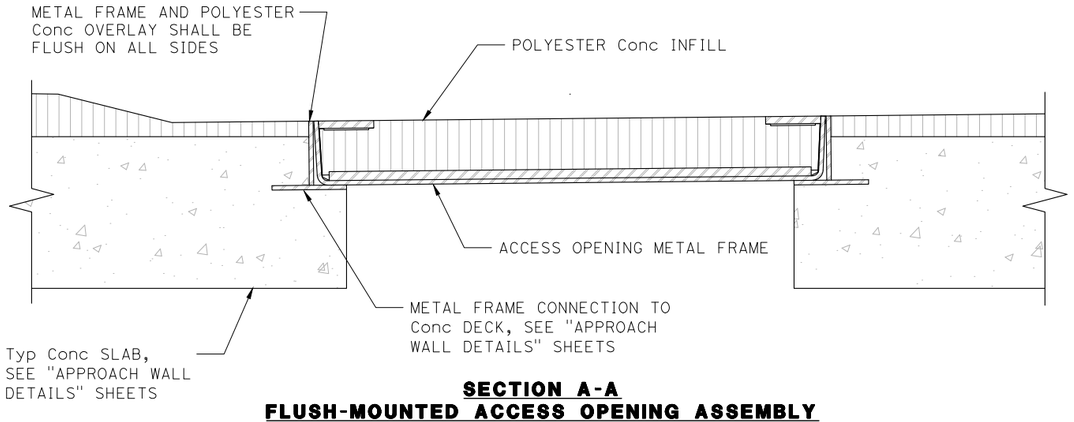
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STEVEN GROVER & ASSOCIATES
800 HEINZ AVE, STUDIO 11
BERKELEY, CA 94710

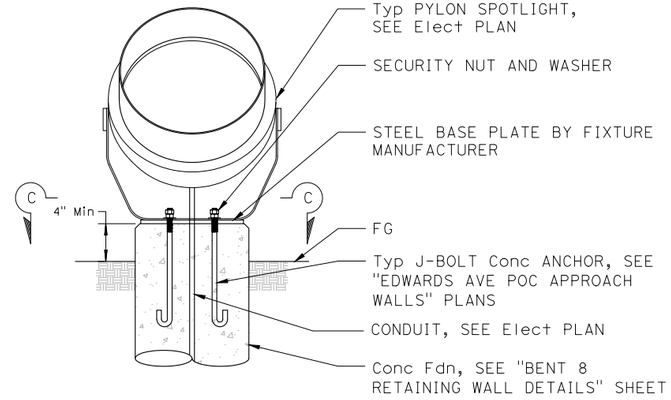
CITY OF SANTA ROSA
69 STONY CIRCLE
SANTA ROSA, CA 95404



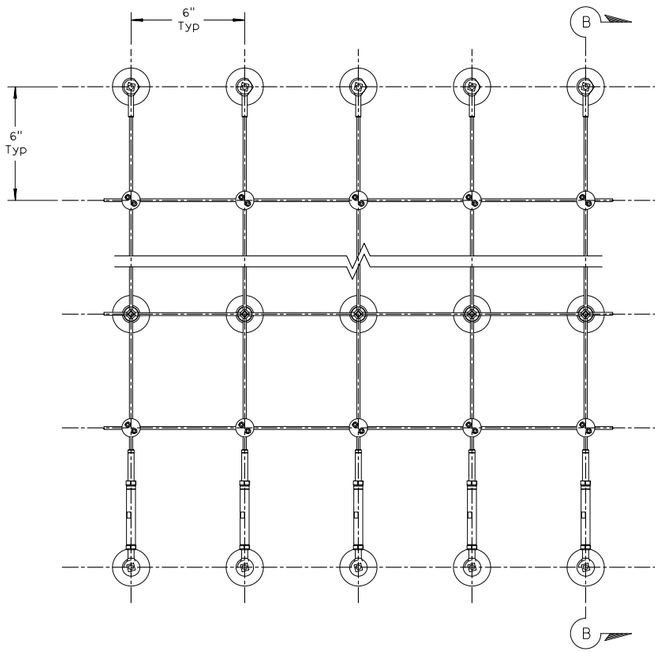
FLUSH-MOUNTED ACCESS OPENING ASSEMBLY ENLARGED PLAN
SCALE: 1/2" = 1'-0"



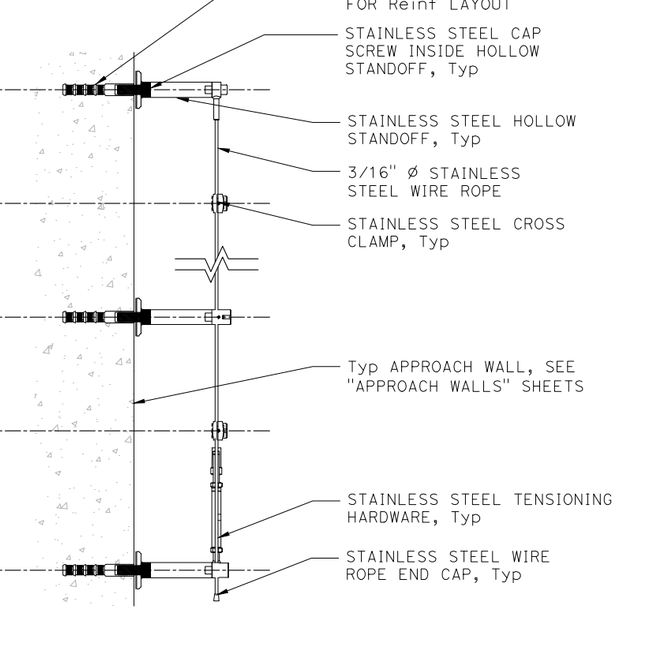
SECTION A-A
FLUSH-MOUNTED ACCESS OPENING ASSEMBLY
SCALE: 3" = 1'-0"



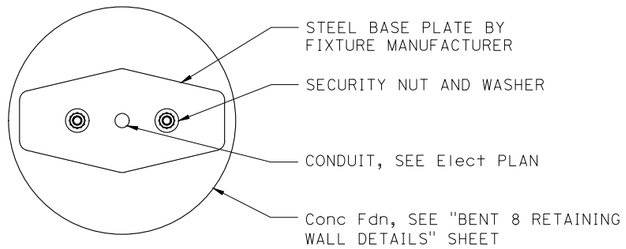
Typ PYLON SPOTLIGHT MOUNTING DETAIL
SCALE: 1 1/2" = 1'-0"



Typ WIRE ROPE TRELLIS ELEVATION DETAIL
SCALE: 3" = 1'-0"



SECTION B-B
SCALE: 3" = 1'-0"



SECTION C-C
SCALE: 3" = 1'-0"

DESIGN OVERSIGHT

SIGN OFF DATE

	BY	CHECKED
DESIGN	J. Darling	S. Grover
DETAILS	J. Darling	S. Grover
QUANTITIES	J. Darling	O. Tsai

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

STEVEN GROVER
PROJECT ARCHITECT

BRIDGE NO.	20-0307
POST MILES	21.5

EDWARD AVE POC APPROACH WALLS
Arch DETAILS - Misc

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 8/16/2021)

DATE PLOTTED => Dec 20, 2024 TIME PLOTTED => 5:00pm
FILE => SR_101_ARCH Publish Set.dwg USERNAME => SGA

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PROJECT NUMBER & PHASE: 04130002131

COUNTY/ROUTE: Son/101
CONTRACT No.: 04-2G340

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES			SHEET	OF
6-10-22		2-21-25 5-2-25	25	25