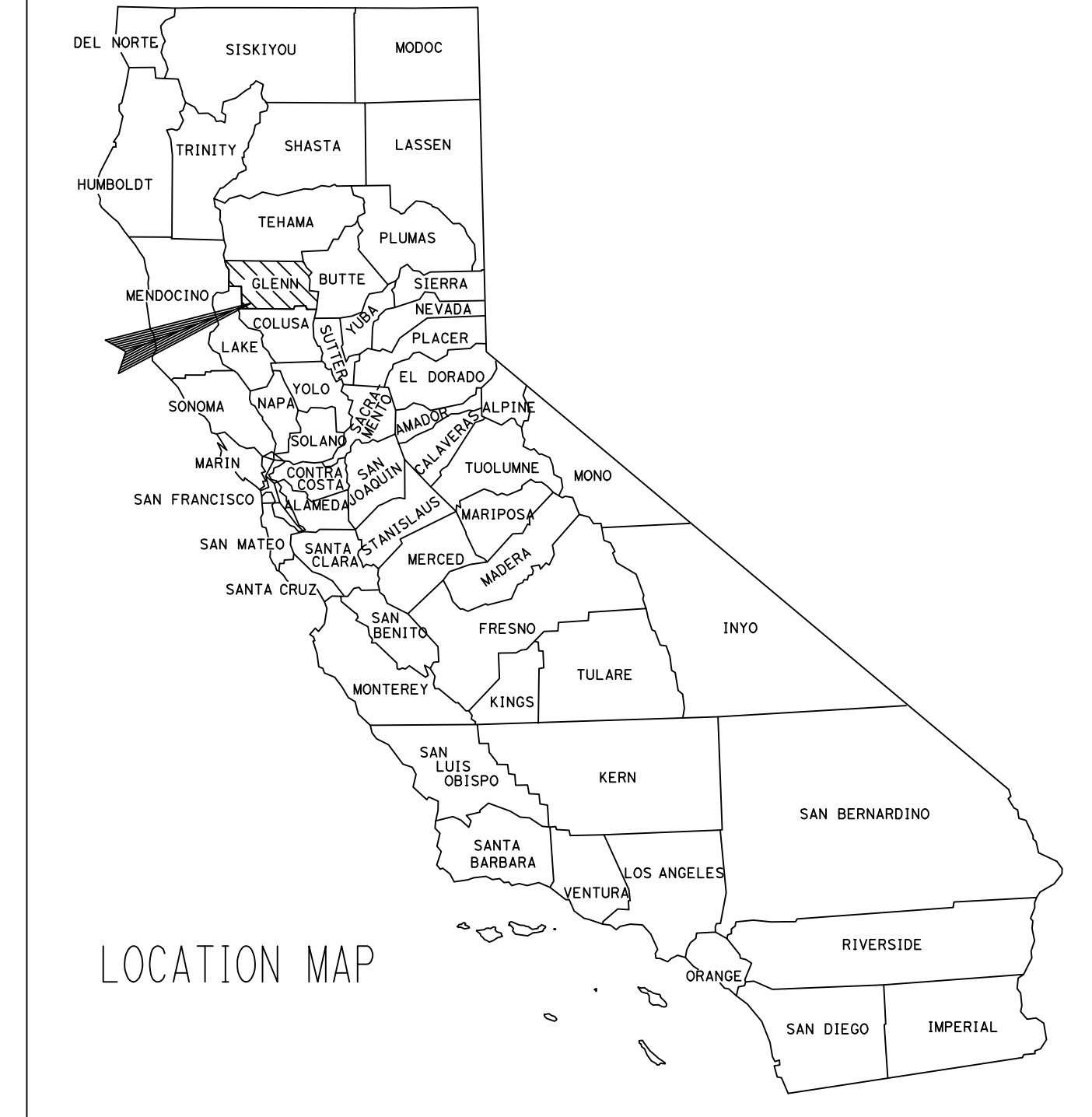


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	CR 67	N/A	1	35



INDEX OF PLANS

SHEET No. DESCRIPTION

1 TITLE AND LOCATION MAP
2-3 TYPICAL CROSS SECTIONS
4-6 LAYOUTS
7-9 TEMPORARY WATER POLLUTION/EROSION CONTROL PLANS
10 CONSTRUCTION AREA SIGNS PLAN
11 DETOUR PLAN
12 PAVEMENT DELINEATION AND SIGN PLAN
13 SUMMARY OF QUANTITIES
14-18 REVISED STANDARD PLANS

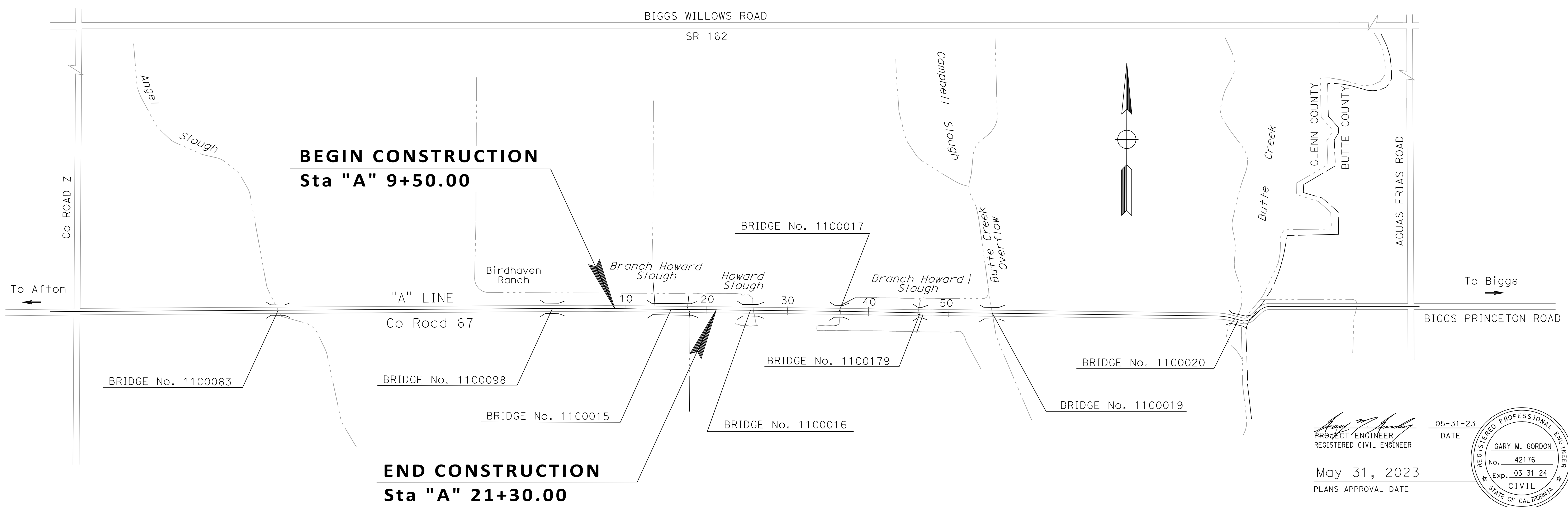
STRUCTURES
19-35 STRUCTURE PLANS

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

STATE OF CALIFORNIA
COUNTY OF GLENN
PUBLIC WORKS AGENCY

PROJECT PLANS FOR CONSTRUCTION ON
COUNTY ROAD 67
BRIDGE REPLACEMENT AT BRANCH HOWARD SLOUGH
ON COUNTY ROAD 67
FEDERAL AID PROJECT BRLO-5911 (048)
STATE BRIDGE No.11C0015

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2022



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

RELATIVE BORDER SCALE 0 1 2 3 IS IN INCHES

USERNAME = KEVIN
DGN FILE = 03-101782aa001

COUNTY OF GLENN:
Gary M. Gordon
Gary M. Gordon, PE
County Engineer

05-31-23
DATE

WILLDAN ENGINEERING
2400 WASHINGTON AVENUE, SUITE 101
REDDING, CALIFORNIA 96001

COUNTY OF GLENN
PUBLIC WORKS AGENCY
777 N. COLUSA STREET
WILLOWS, CALIFORNIA 95988

Gary M. Gordon
PROJECT ENGINEER
REGISTERED CIVIL ENGINEER

05-31-23
DATE

May 31, 2023
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
GARY M. GORDON
No. 42176
Exp. 03-31-24
CIVIL
STATE OF CALIFORNIA

DATE PLOTTED = 5/31/2023
TIME PLOTTED = 2:53:09 PM

LAST REVISION
05-31-23

NOTES:

1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTION) ARE SUBJECT TO THE TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. PLACE GEOSYNTHETIC REINFORCED EMBANKMENT WHERE SLOPES ARE STEEPER THAN 2:1. PLACE IN TWO FOOT MAXIMUM LIFTS.

STRUCTURAL SECTION NOTES:

- 1 Prop SECTION
6.25" HMA TYPE A
23.5" CI 2 AB
- 2 EXISTING SECTION VARIES

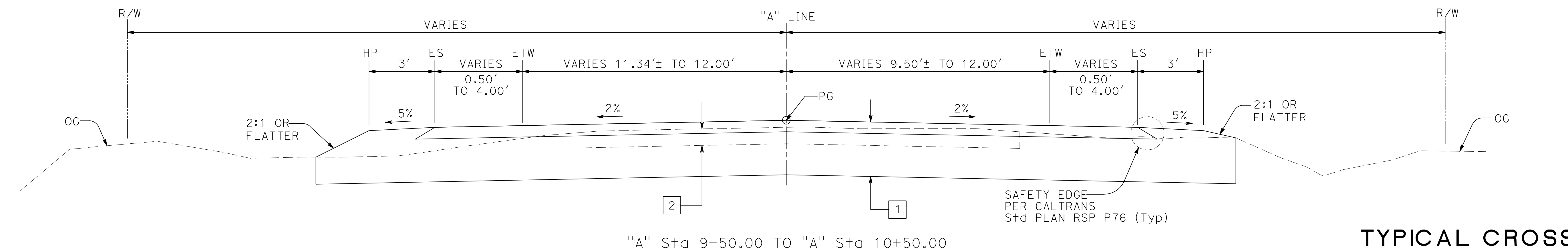
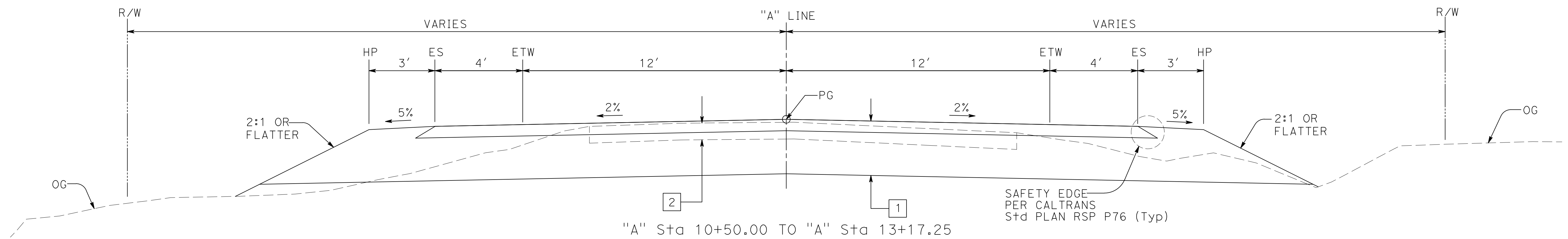
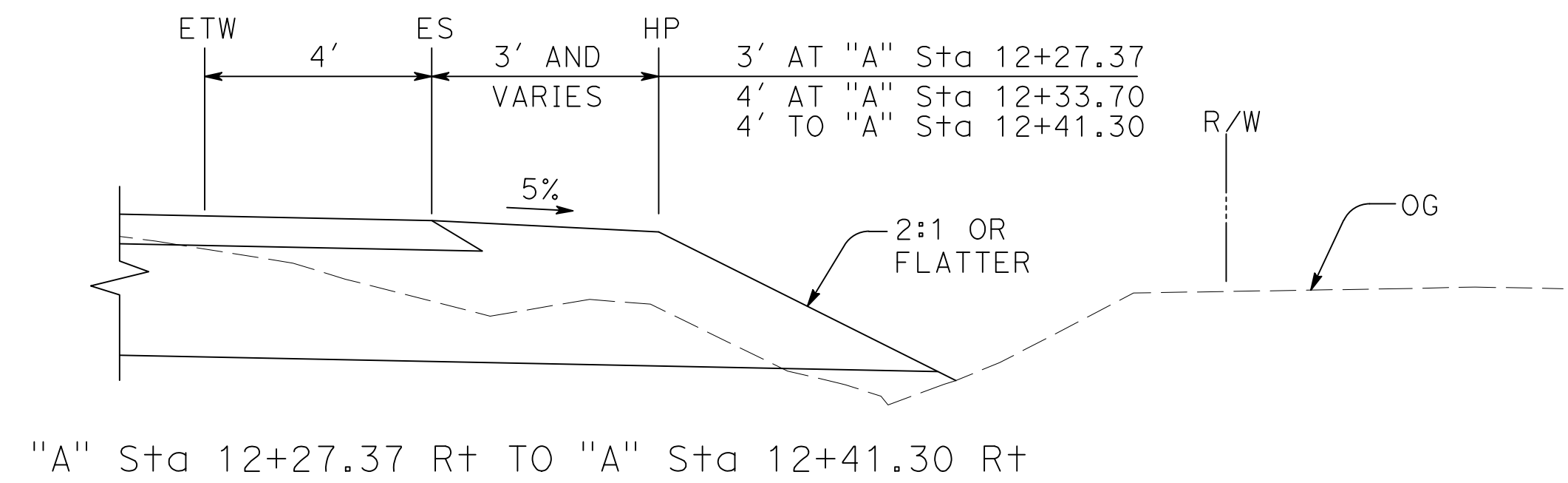
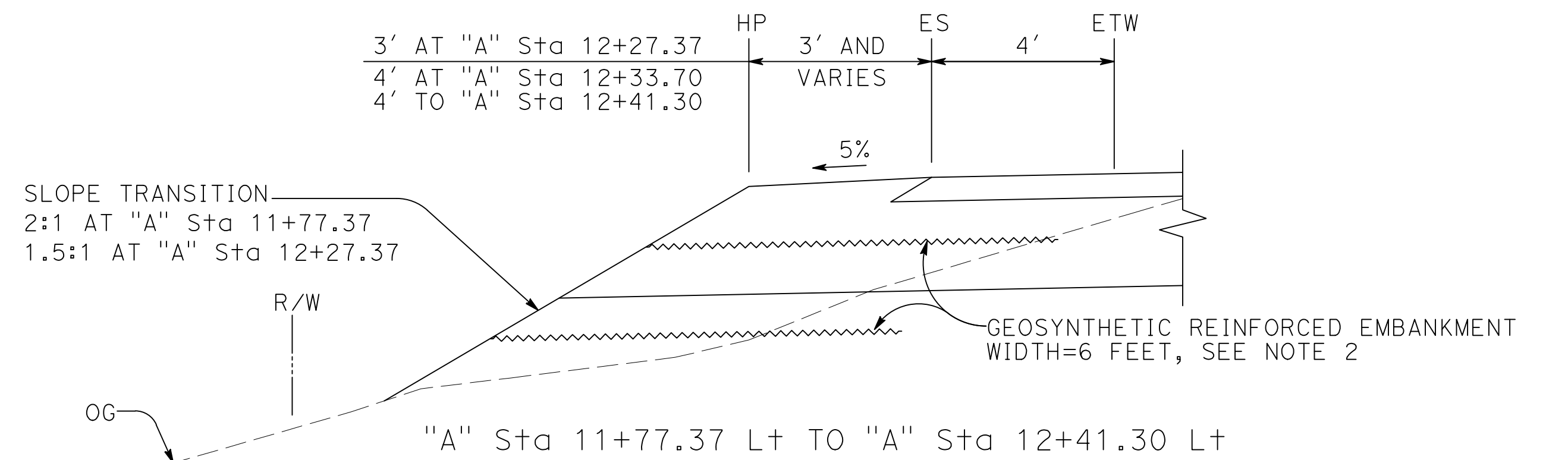
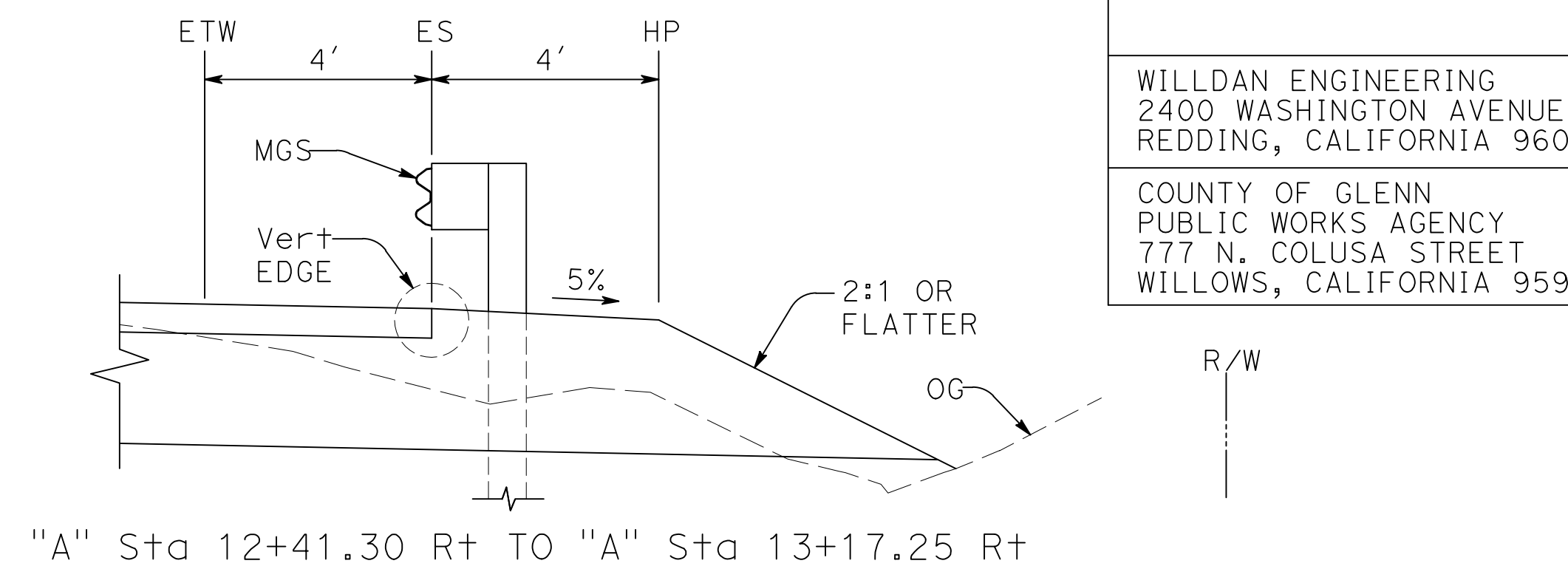
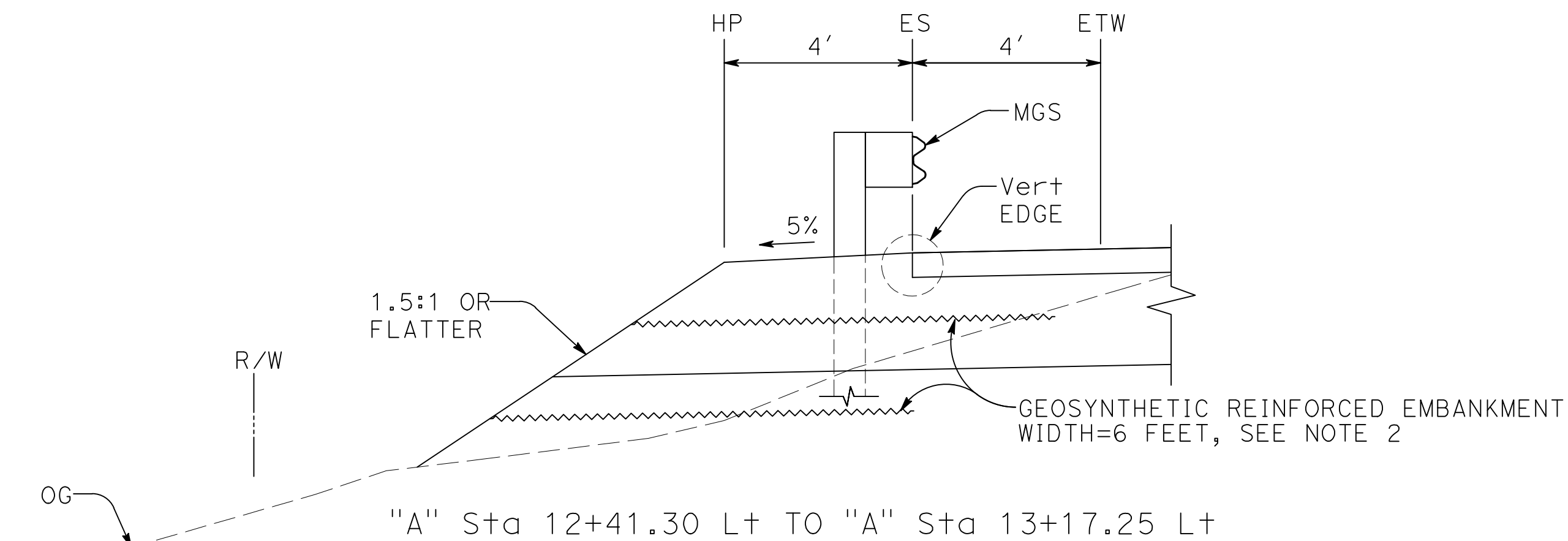
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03	Glenn	CR 67	N/A	2	35

REGISTERED CIVIL ENGINEER DATE 05-31-23
 GARY M. GORDON
 No. 42176
 Exp. 03-31-24
 CIVIL
 STATE OF CALIFORNIA

May 31, 2023
 PLANS APPROVAL DATE

WILLDAN ENGINEERING
 2400 WASHINGTON AVENUE, SUITE 101
 REDDING, CALIFORNIA 96001

COUNTY OF GLENN
 PUBLIC WORKS AGENCY
 777 N. COLUSA STREET
 WILLOWS, CALIFORNIA 95988



TYPICAL CROSS SECTION X-1
 NO SCALE



NOTES:

1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTION) ARE SUBJECT TO THE TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. PLACE GEOSYNTHETIC REINFORCED EMBANKMENT WHERE SLOPES ARE STEEPER THAN 2:1. PLACE IN TWO FOOT MAXIMUM LIFTS.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Glenn	CR 67	N/A	3	35

REGISTERED CIVIL ENGINEER DATE 05-31-23
 GARY M. GORDON
 No. 42176
 Exp. 03-31-24
 CIVIL
 STATE OF CALIFORNIA

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 2400 WASHINGTON AVENUE, SUITE 101
 REDDING, CALIFORNIA 96001

COUNTY OF GLENN
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 777 N. COLUSA STREET
 WILLOWS, CALIFORNIA 95988

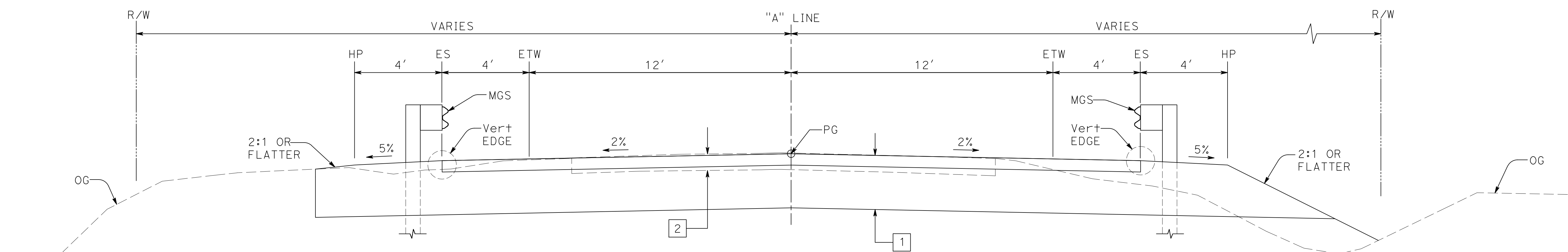
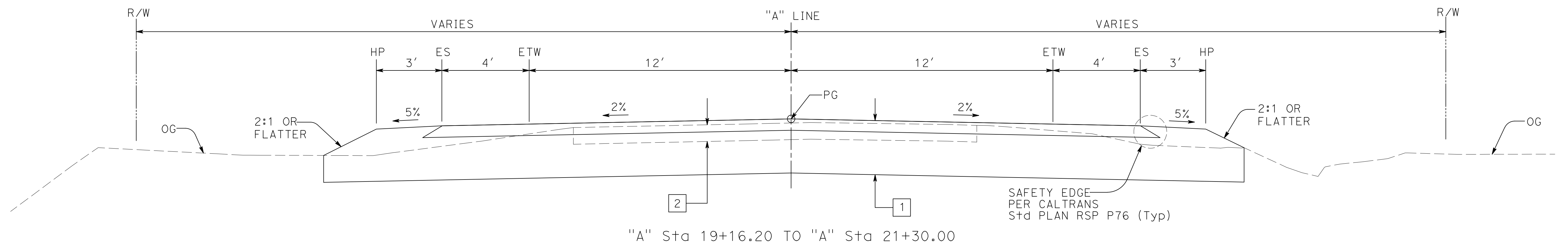
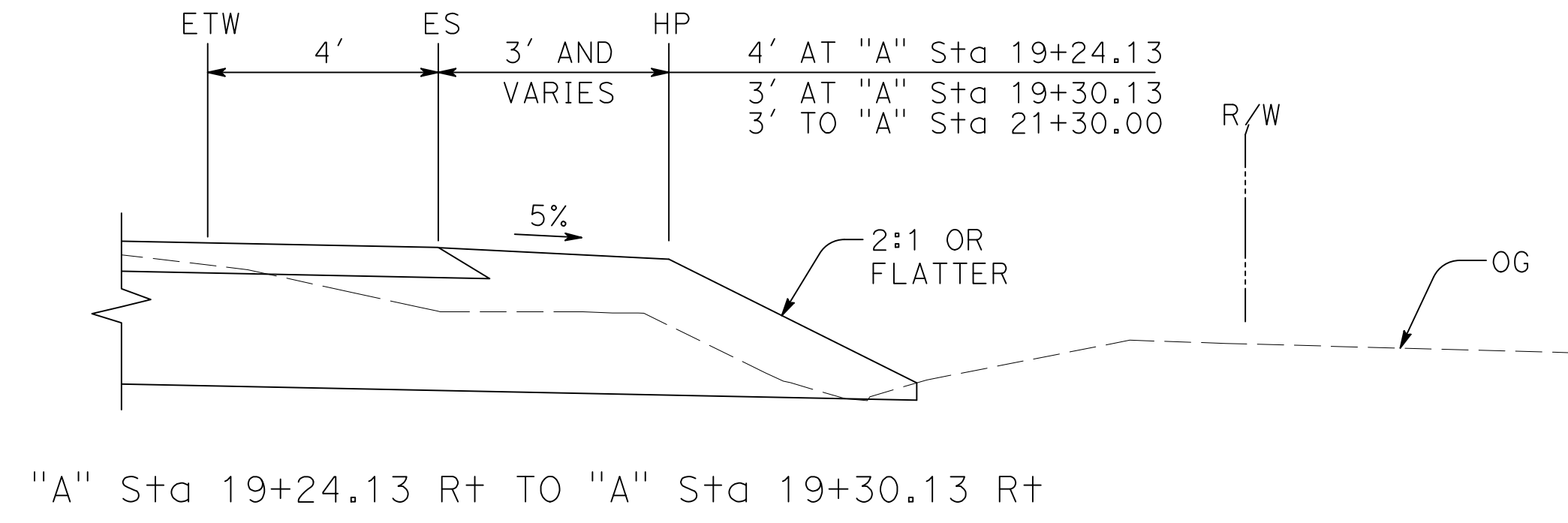
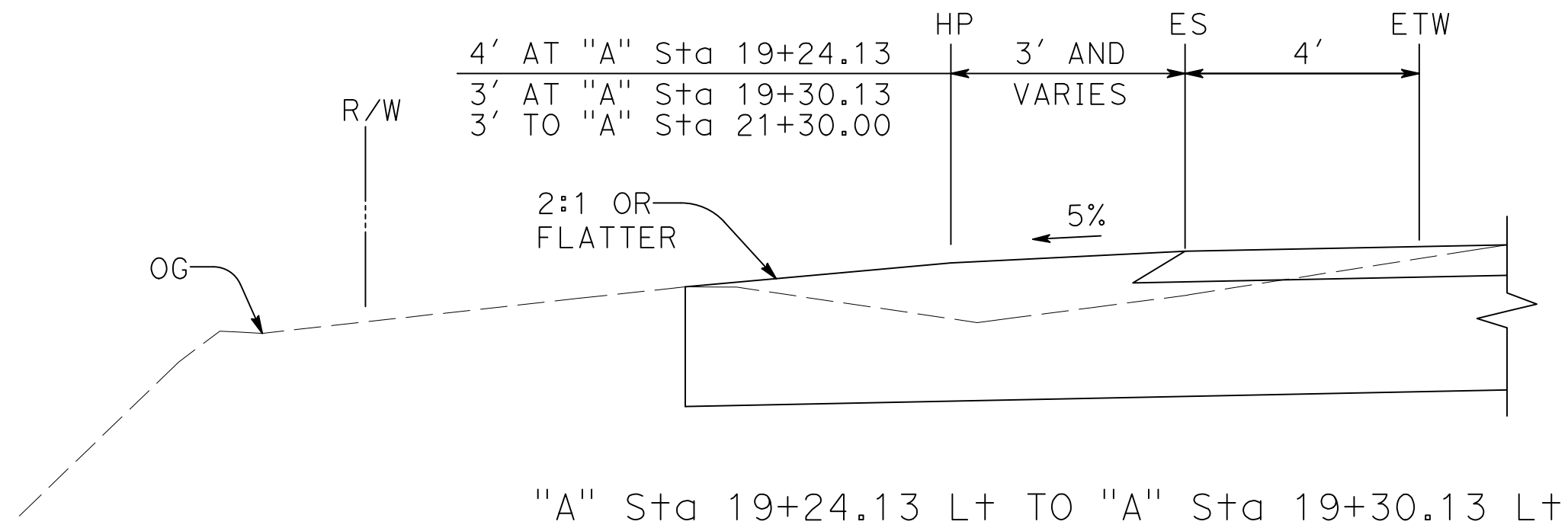
KCG
05-31-23

REVISED BY
DATE REVISED

R. UHLMANN
G. GORDON

CALCULATED-DESIGNED BY
CHECKED BY

PROJECT ENGINEER
GARY M. GORDON



Co ROAD 67

TYPICAL CROSS SECTION X-2
NO SCALE

NOTES:

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT GLENN COUNTY PUBLIC WORKS AGENCY.
- BASIS OF BEARING: TAKEN AS N87°6'59.47"E BETWEEN POINTS 5860 AND 5001 AS SHOWN ON THIS SHEET.
- COORDINATES, DISTANCES AND BEARINGS ARE BASED ON CCS 1983, ZONE 2, DERIVED FROM GPS OBSERVATIONS. MULTIPLY DISTANCES SHOWN BY 1.000063654 TO OBTAIN GROUND LEVEL DISTANCES.
- ELEVATIONS ARE BASED ON 1988 NATIONAL GEODETIC VERTICAL DATUM (NGVD). BENCHMARK ELEVATIONS ARE BASED UPON A FOUND BRONZE DISK "HOWARD" TAKEN AS ELEVATION 74.88.

CONTROL FOR DESIGN AND CONSTRUCTION

POINT No.	NORTHING	EASTING	ELEVATION	DESCRIPTION
5001	2279027.67	6590514.16	74.88	FOUND BRONZE DISK "HOWARD" IN TOP OF SOUTHEAST WINGWALL OF Br. No. 11C0017
5860	2279009.86	6590160.48	70.84	FOUND ALUMINUM CAP "465", SOUTHWEST OF Br. No. 11C0017 (37.28' Rt "A" 33+48.24)

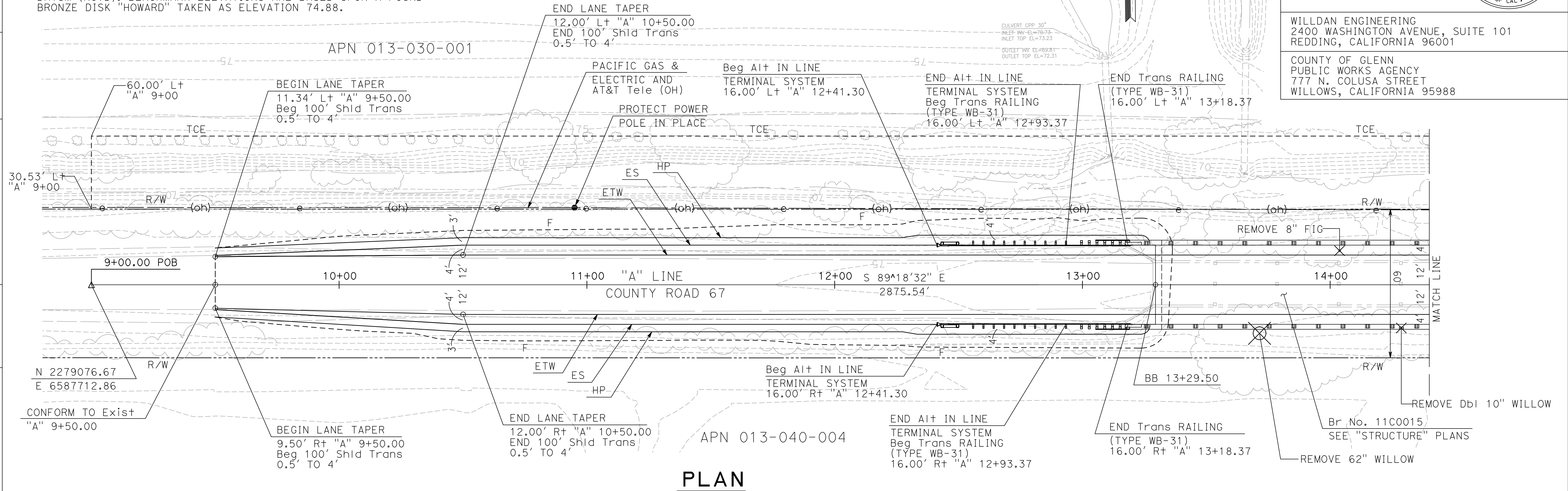
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Glenn	CR 67	N/A	4	35

REGISTERED CIVIL ENGINEER
 DATE 05-31-23
 May 31, 2023
 PLANS APPROVAL DATE

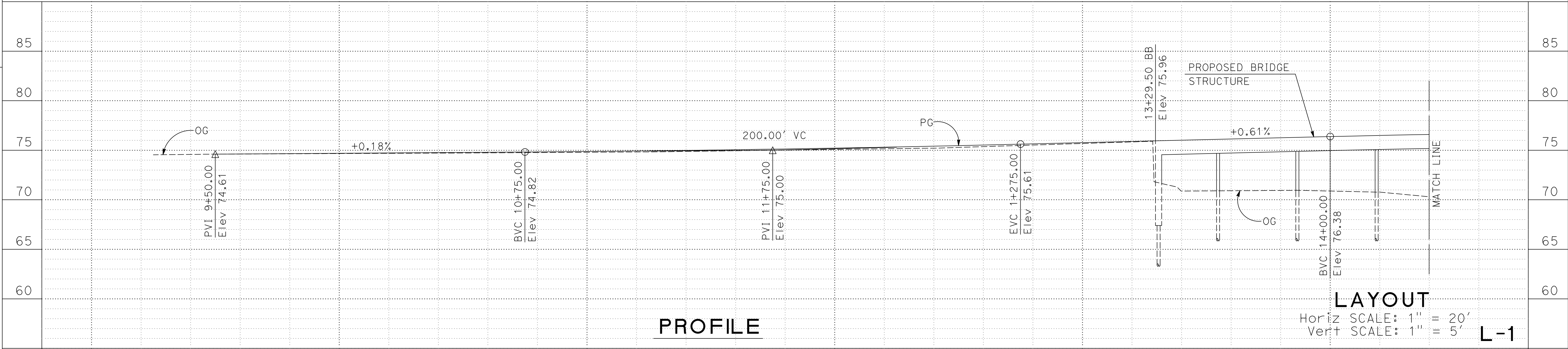
GARY M. GORDON
 No. 42176
 Exp. 03-31-24
 CIVIL
 STATE OF CALIFORNIA

WILLDAN ENGINEERING
 2400 WASHINGTON AVENUE, SUITE 101
 REDDING, CALIFORNIA 96001

COUNTY OF GLENN
 PUBLIC WORKS AGENCY
 777 N. COLUSA STREET
 WILLOWS, CALIFORNIA 95988



PLAN



PROFILE

LAYOUT

Horiz SCALE: 1" = 20'
 Vert SCALE: 1" = 5'

L-1

STATION	Exc	Emb	TOTAL
10+00			
11+00			
12+00			
13+00			
14+00			
TOTAL	1095	42	1095

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 DGN FILE => 03-101782e001



DATE PLOTTED => 5/31/2023
 TIME PLOTTED => 3:34:57 PM

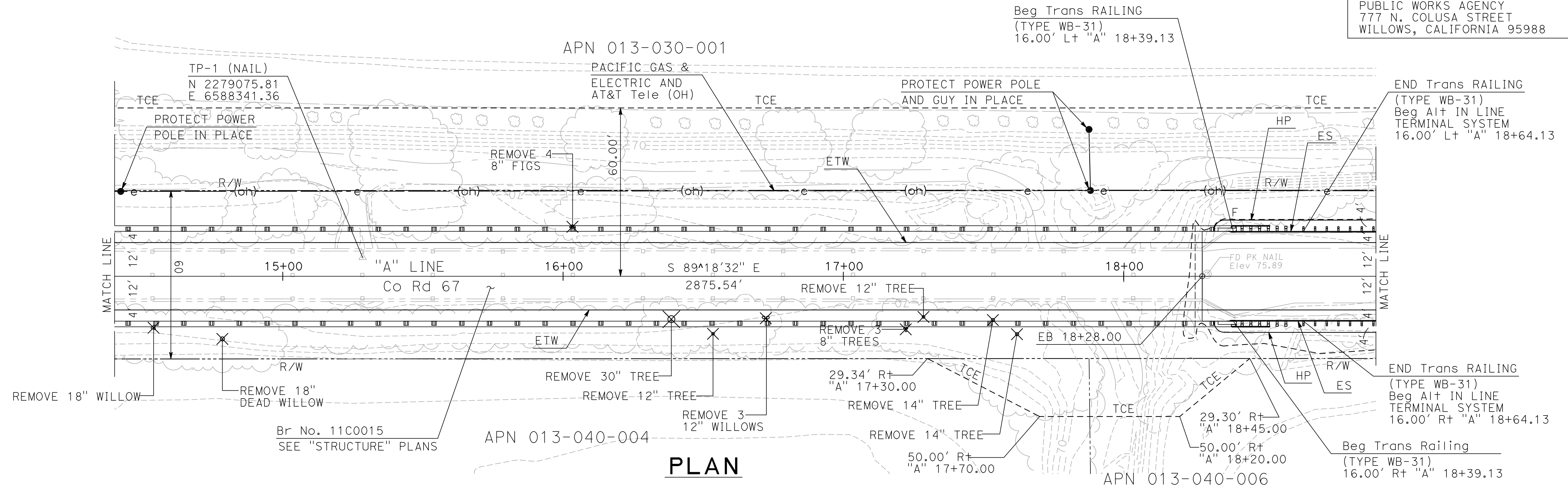
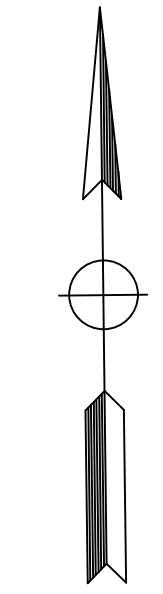
NOTE:
FOR ACCURATE RIGHT OF WAY DATA,
CONTACT COUNTY OF GLENN PUBLIC
WORKS AGENCY.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Glenn	CR 67	N/A	5	35

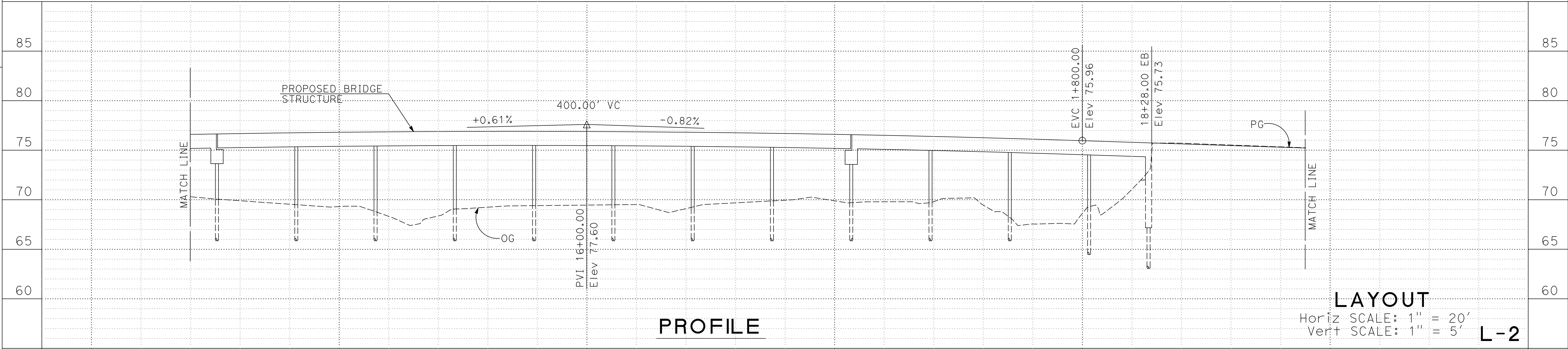
REGISTERED CIVIL ENGINEER DATE 05-31-23
 GARY M. GORDON
 No. 42176
 Exp. 03-31-24
 CIVIL
 STATE OF CALIFORNIA

WILLDAN ENGINEERING
 2400 WASHINGTON AVENUE, SUITE 101
 REDDING, CALIFORNIA 96001

COUNTY OF GLENN
 PUBLIC WORKS AGENCY
 777 N. COLUSA STREET
 WILLOWS, CALIFORNIA 95988



PLAN



PROFILE

LAYOUT
 Horiz SCALE: 1" = 20'
 Vert SCALE: 1" = 5'

L-2

STATION	14+00	15+00	16+00	17+00	18+00	19+00	TOTAL
Exc						189	189
Emb						7	7

USERNAME => KEVIN
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DATE PLOTTED => 5/31/2023
 TIME PLOTTED => 3:51:17 PM

NOTE:
FOR ACCURATE RIGHT OF WAY DATA,
CONTACT COUNTY OF GLENN PUBLIC
WORKS AGENCY.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	CR 67	N/A	6	35

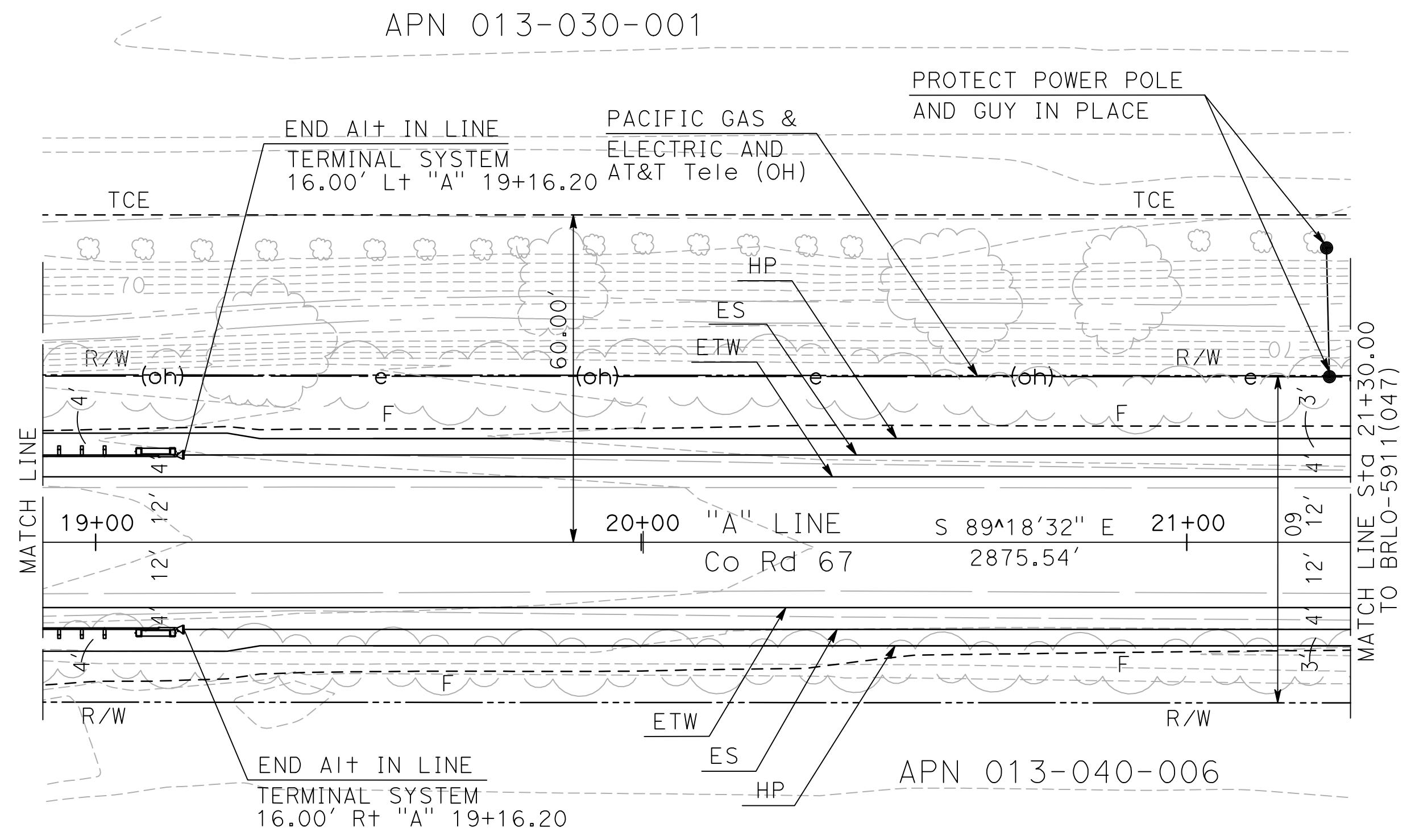
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REGISTERED CIVIL ENGINEER DATE

May 31, 2023
PLANS APPROVAL DATE

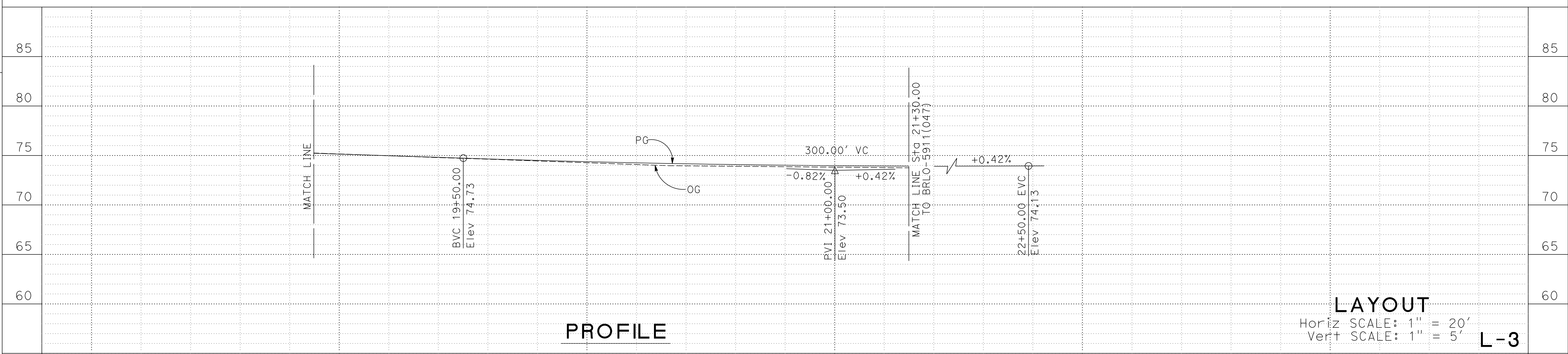
REG. NO. 42176
Exp. 03-31-24
CIVIL
STATE OF CALIFORNIA

WILLDAN ENGINEERING
2400 WASHINGTON AVENUE, SUITE 101
REDDING, CALIFORNIA 96001

COUNTY OF GLENN
PUBLIC WORKS AGENCY
777 N. COLUSA STREET
WILLOWS, CALIFORNIA 95988



PLAN



PROFILE

LAYOUT
Horiz SCALE: 1" = 20'
Vert SCALE: 1" = 5'

L-3

STATION	19+00	20+00	21+00	22+00	TOTAL
Exc		758			758
Emb		4			4

USERNAME => KEVIN
DGN FILE => 03-101782e003



LAST REVISION DATE PLOTTED => 5/31/2023
05-31-23 TIME PLOTTED => 3:59:47 PM

NOTE:
FOR ACCURATE RIGHT OF WAY DATA,
CONTACT COUNTY OF GLENN PUBLIC
WORKS AGENCY.

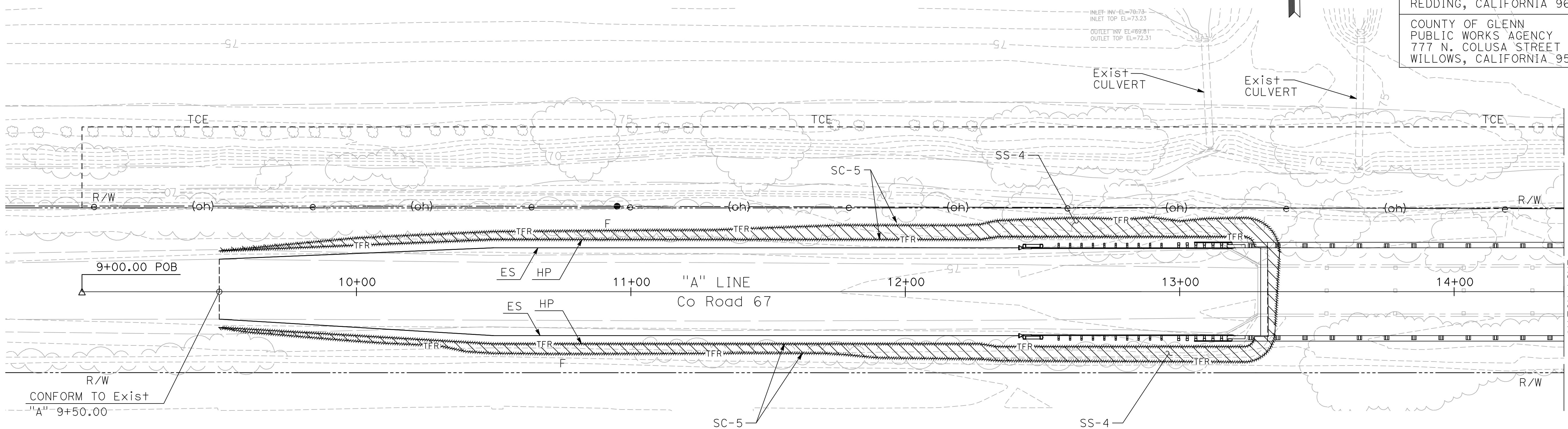
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Glenn	CR 67	N/A	7	35

REGISTERED CIVIL ENGINEER DATE 05-31-23
 May 31, 2023
 PLANS APPROVAL DATE

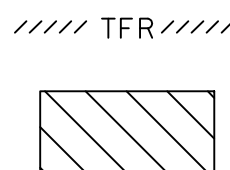
GARY M. GORDON
 No. 42176
 Exp. 03-31-24
 CIVIL
 STATE OF CALIFORNIA

WILLDAN ENGINEERING
 2400 WASHINGTON AVENUE, SUITE 101
 REDDING, CALIFORNIA 96001

COUNTY OF GLENN
 PUBLIC WORKS AGENCY
 777 N. COLUSA STREET
 WILLOWS, CALIFORNIA 95988



LEGEND:



SC-5: TEMPORARY FIBER ROLL CONTROL PER CALTRANS STANDARD T56
 SS-4: HYDROSEEDING FOR ALL PROPOSED SLOPES. MIX TO BE DETERMINED.

TEMPORARY BMP NOTES:

- NOT ALL BEST MANAGEMENT PRACTICES (BMPs) SHOWN. CONTRACTOR SHALL USE ALL APPROPRIATE TEMPORARY WATER POLLUTION CONTROL BMPs AS INDICATED ON THE PLANS AND AS DIRECTED BY THE APPROVED PROJECT WPCP OR SWPPP.
- BMPs WILL BE APPLIED TO AND MAINTAINED IN ACTIVE AND NON-ACTIVE DISTURBED SOIL AREAS (DSAs).
- FIBER ROLLS SHALL BE PLACED ON DISTURBED SOIL AT THE COMPLETION OF GRADING.
- CONTRACTOR TO ESTABLISH TEMPORARY CONSTRUCTION ENTRANCE PER CALTRANS STANDARD T58 AND TEMPORARY CONCRETE WASHOUT FACILITY PER CALTRANS STANDARD T59.
- THE CHANNEL CAPACITY MUST BE MAINTAINED DURING THE RAINY SEASON OCTOBER 15 TO APRIL 15.
- A STANDBY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES OR TO REPAIR ANY DAMAGED EROSION CONTROL MEASURES WHEN RAIN IS IMMINENT.

TEMPORARY BMP NOTES (CONTINUED):

- DEVICES SHALL NOT BE MOVED OR MODIFIED WITHOUT THE APPROVAL OF THE ENGINEER.
- ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE FIVE-DAY RAIN PROBABILITY FORECAST EXCEEDS 40 PERCENT.
- AFTER A RAINSTORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM STREETS, CHECK BERMS, AND DESILTING BASINS AND THE BASINS PUMPED DRY. ANY GRADED SLOPE SURFACE PROTECTION MEASURES DAMAGED DURING A RAINSTORM SHALL ALSO BE IMMEDIATELY REPAIRED.
- GRADED AREAS ON THE PERMITTED AREA PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPES AT THE CONCLUSION OF EACH WORKING DAY. DRAINAGE TO BE DIRECTED TOWARD DESILTING FACILITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREA WHERE IMPOUNDED WATER CREATES A HAZARDOUS CONDITION.

PERMANENT BMP NOTES:

- CONTRACTOR SHALL PROVIDE APPROPRIATE EROSION CONTROL BMPs AS INDICATED ON THE PLANS AND AS DIRECTED BY THE APPROVED PROJECT WPCP OR SWPPP.
- SEED MIX FOR HYDROSEEDING SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
- PROPERLY MAINTAINED FIBER ROLLS FROM TEMPORARY WATER POLLUTION CONTROL WORK MAY BE USED FOR EROSION CONTROL. MISSING, DEGRADED OR OTHERWISE DAMAGED FIBER ROLLS WILL BE REPLACED AS DIRECTED BY THE ENGINEER.

**TEMPORARY WATER POLLUTION/
 EROSION CONTROL PLAN**

SCALE: 1" = 20'

WPC-1

APPROVED FOR TEMPORARY WATER POLLUTION AND EROSION CONTROL WORK ONLY

USERNAME => KEVIN
 DGN FILE => 03-101782gb001



LAST REVISION DATE PLOTTED => 5/31/2023
 05-31-23 TIME PLOTTED => 4:06:35 PM

PROJECT ENGINEER GARY M. GORDON	CALCULATED-DESIGNED BY CHECKED BY	R. UHLMANN G. GORDON	REVISED BY DATE REVISED	KCG 05-31-23
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NOTE:
FOR ACCURATE RIGHT OF WAY DATA,
CONTACT COUNTY OF GLENN PUBLIC
WORKS AGENCY.

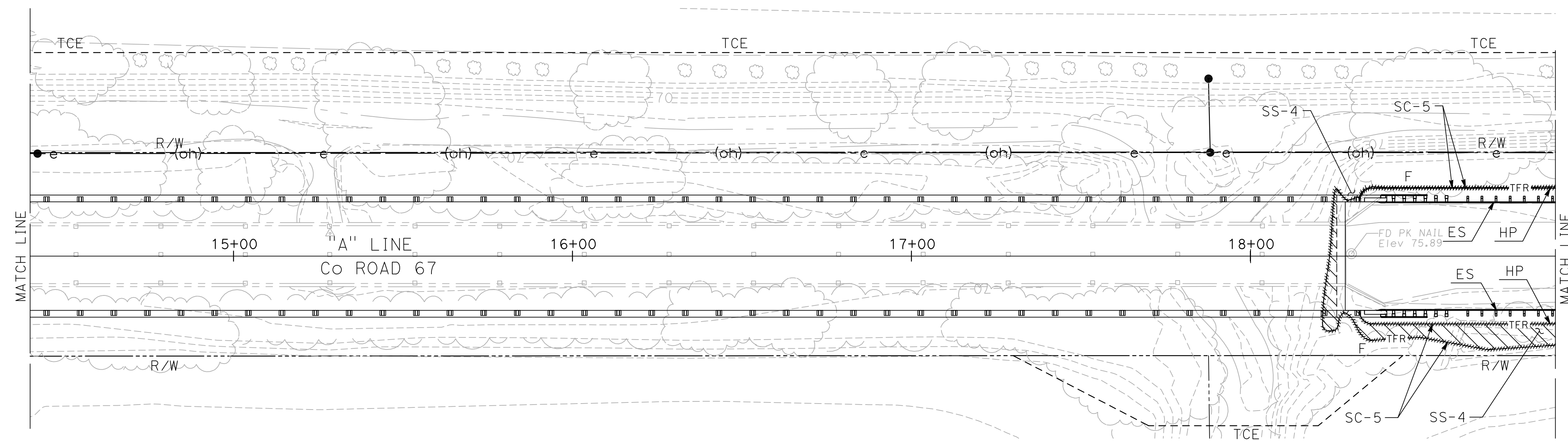
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03	Glenn	CR 67	N/A	8	35

REGISTERED CIVIL ENGINEER DATE 05-31-23
 GARY M. GORDON
 No. 42176
 Exp. 03-31-24
 CIVIL
 STATE OF CALIFORNIA

May 31, 2023
 PLANS APPROVAL DATE

WILLDAN ENGINEERING
 2400 WASHINGTON AVENUE, SUITE 101
 REDDING, CALIFORNIA 96001

COUNTY OF GLENN
 PUBLIC WORKS AGENCY
 777 N. COLUSA STREET
 WILLOWS, CALIFORNIA 95988



TEMPORARY WATER POLLUTION/ EROSION CONTROL PLAN

SCALE: 1" = 20'

WPC-2

APPROVED FOR TEMPORARY WATER POLLUTION AND EROSION CONTROL WORK ONLY

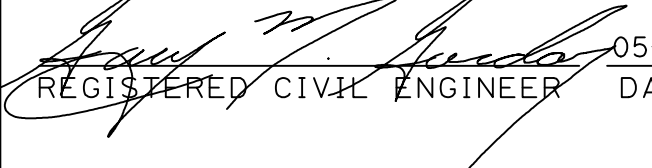
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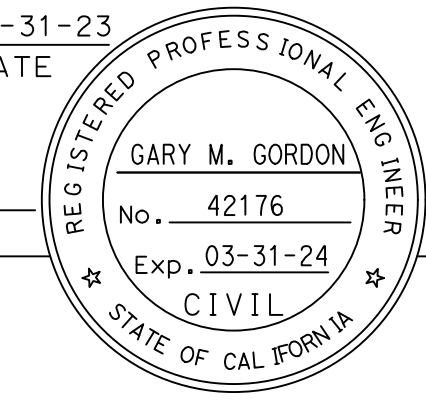


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CONTACT COUNTY OF GLENN PUBLIC
WORKS AGENCY.

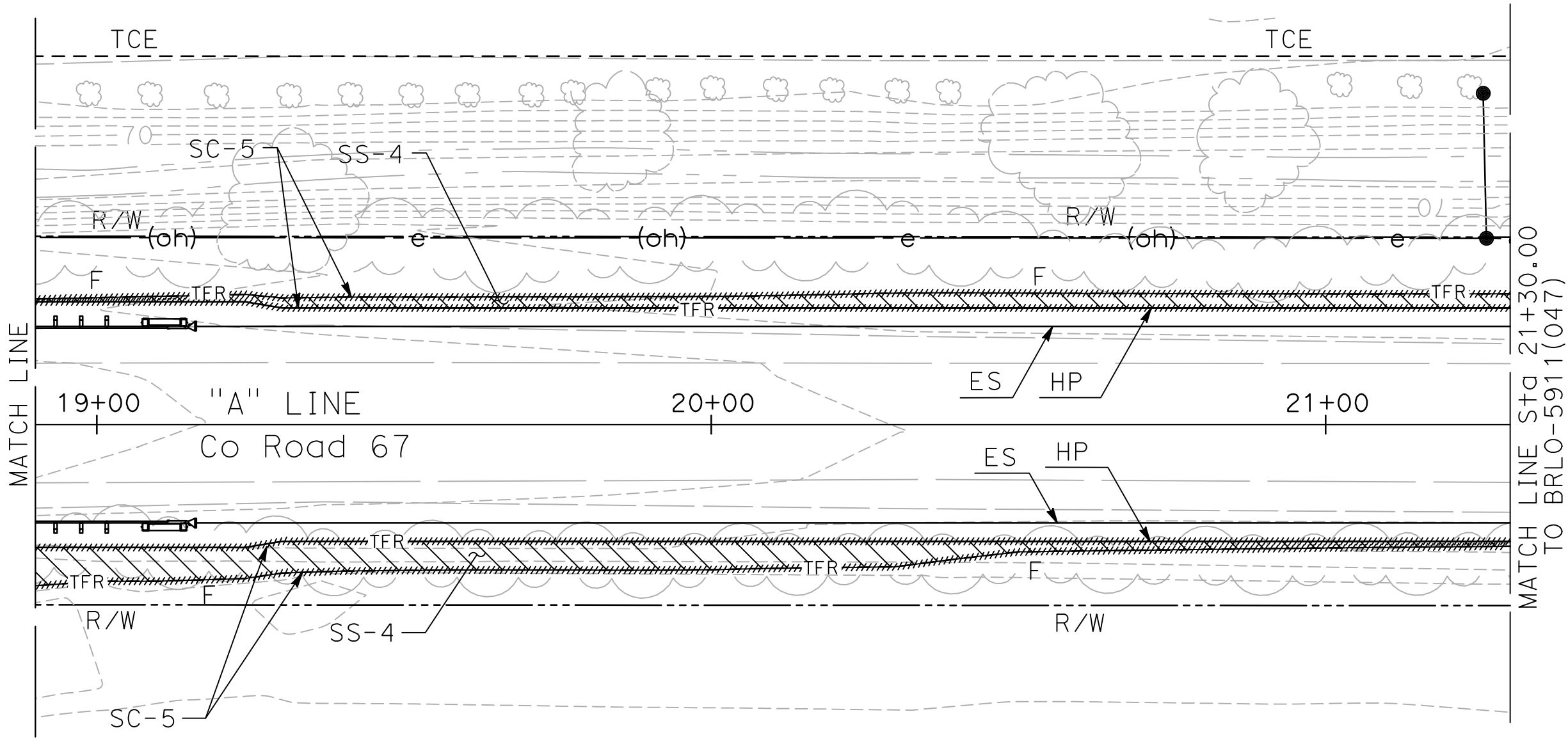
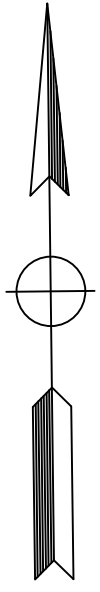
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	CR 67	N/A	9	35


 REGISTERED CIVIL ENGINEER DATE 05-31-23
 May 31, 2023
 PLANS APPROVAL DATE



WILLDAN ENGINEERING
2400 WASHINGTON AVENUE, SUITE 101
REDDING, CALIFORNIA 96001

COUNTY OF GLENN
PUBLIC WORKS AGENCY
777 N. COLUSA STREET
WILLOWS, CALIFORNIA 95988



TEMPORARY WATER POLLUTION/ EROSION CONTROL PLAN

SCALE: 1" = 20'

WPC-3

APPROVED FOR TEMPORARY WATER POLLUTION AND EROSION CONTROL WORK ONLY

USERNAME => KEVIN
DGN FILE => 03-101782gb003



LAST REVISION | DATE PLOTTED => 5/31/2023
 05-31-23 | TIME PLOTTED => 4:13:24 PM

PROJECT ENGINEER	GARY M. GORDON
CALCULATED-DESIGNED BY	CHECKED BY
B. BURCH	R. UHLMANN
REVISED BY	DATE REVISED
KCG	05-31-23

GENERAL NOTES:

- SIGNS SHALL CONFORM TO THE 2014 CALIFORNIA MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD) AND THE 2022 CALTRANS STANDARD PLANS AND SPECIFICATIONS.
- SIGN LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
- SIGNS WILL REMAIN IN PLACE FOR DURATION OF PROJECT.
- FOR ADDITIONAL TRAFFIC CONTROL SIGNS, SEE DETOUR PLAN DE-1.
- CONTRACTOR SHALL OBTAIN CALTRANS ENCROACHMENT PERMIT FOR SIGNS ON SR 162.
- CONTRACTOR SHALL OBTAIN BUTTE COUNTY ENCROACHMENT PERMIT FOR SIGNS ON AGUAS FRIAS ROAD, AFTON ROAD, AND COUNTY ROAD 67 EAST OF THE GLENN/BUTTE COUNTY LINE.

LEGEND

- TEMPORARY SIGN AND POST (ONE POST)
- TEMPORARY SIGN AND POST (TWO POST)
- CONSTRUCTION AREA
- AGRICULTURAL FIELD ACCESS POINT
LAT: 39°25'13"N, LONG: 121°54'4"W

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	CR 67	N/A	10	35

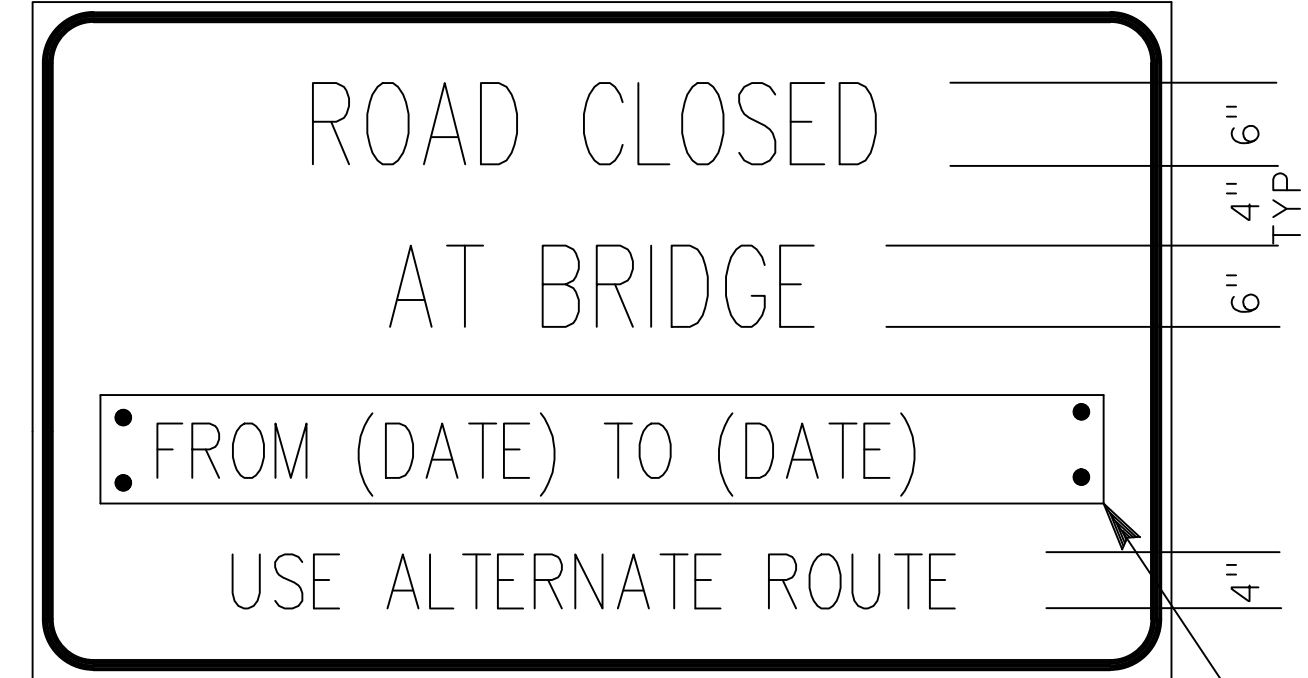
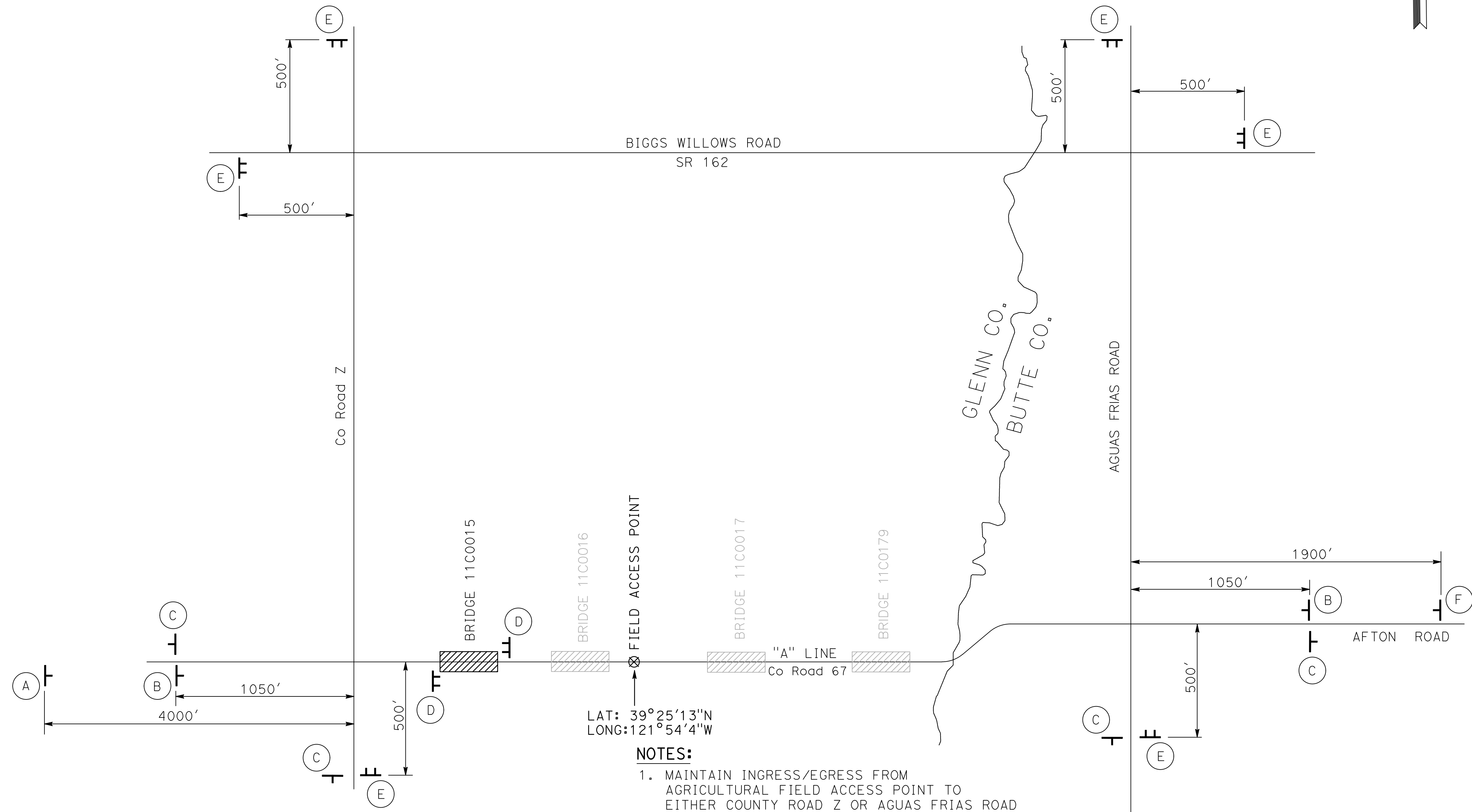
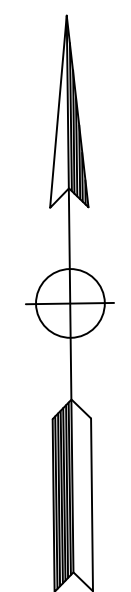
05-31-23
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2400 WASHINGTON AVENUE, SUITE 101
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COUNTY OF GLENN
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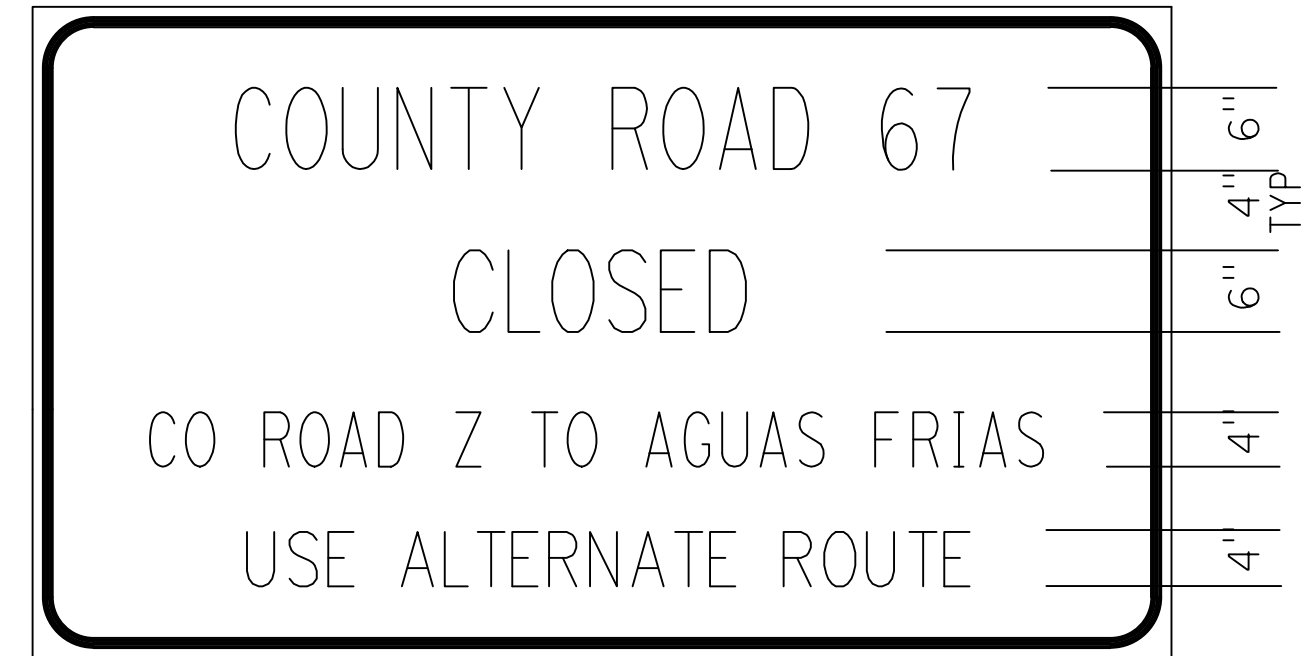
GARY M. GORDON
No. 42176
Exp. 03-31-24
CIVIL
STATE OF CALIFORNIA



SIGN (D) 6" OVERLAY PANEL WITH 4" LETTERING

NOTES:

- LETTERS - SERIES C.
- LETTERS AND BORDERS - BLACK ON ORANGE BACKGROUND.
- SIGN TO BE INSTALLED 2 WEEKS PRIOR TO CONSTRUCTION.



SIGN (E)

NOTES:

- LETTERS - SERIES C.
- LETTERS AND BORDERS - BLACK ON ORANGE BACKGROUND.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE	PANEL SIZE	SIGN MESSAGE	POST		No. of SIGNS
				No.	SIZE	
(A)	R11-3b	30" X 60"	BRIDGE OUT 2 MILES LOCAL TRAFFIC ONLY	1	4" X 4"	1
(B)	C19(CA)	48" X 48"	ROAD CLOSED AHEAD	1	4" X 4"	2
(C)	G20-2	36" X 18"	END ROAD WORK	1	4" X 4"	4
(D)	SPECIAL	84" X 42"	ROAD CLOSED INFORMATION	2	6" X 6"	2
(E)	SPECIAL	84" X 40"	ROAD CLOSED INFORMATION	2	6" X 6"	5
(F)	R11-3b	30" X 60"	BRIDGE OUT 3 MILES LOCAL TRAFFIC ONLY	1	4" X 4"	1

NOTES:

- MAINTAIN INGRESS/EGRESS FROM AGRICULTURAL FIELD ACCESS POINT TO EITHER COUNTY ROAD Z OR AGUAS FRIAS ROAD AT ALL TIMES.
- COORDINATE CONSTRUCTION PHASING OF ALL PROJECTS TO MAINTAIN ACCESS OR PROVIDE ALTERNATIVE MEANS OF INGRESS/EGRESS.
- IF MULTIPLE BRIDGES ARE UNDER CONSTRUCTION SIMULTANEOUSLY, THE CONTRACTOR SHALL COORDINATE SIGN PLACEMENT WITH THE ENGINEER.

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY



CONSTRUCTION AREA SIGNS
NO SCALE
CS-1

LAST REVISION DATE PLOTTED => 5/31/2023 05-31-23 TIME PLOTTED => 4:20:37 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	CR 67	N/A	11	35

REGISTERED CIVIL ENGINEER DATE 05-31-23
 GARY M. GORDON
 No. 42176
 Exp. 03-31-24
 CIVIL
 STATE OF CALIFORNIA




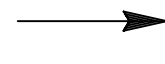

WILLDAN ENGINEERING
 2400 WASHINGTON AVENUE, SUITE 101
 REDDING, CALIFORNIA 96001

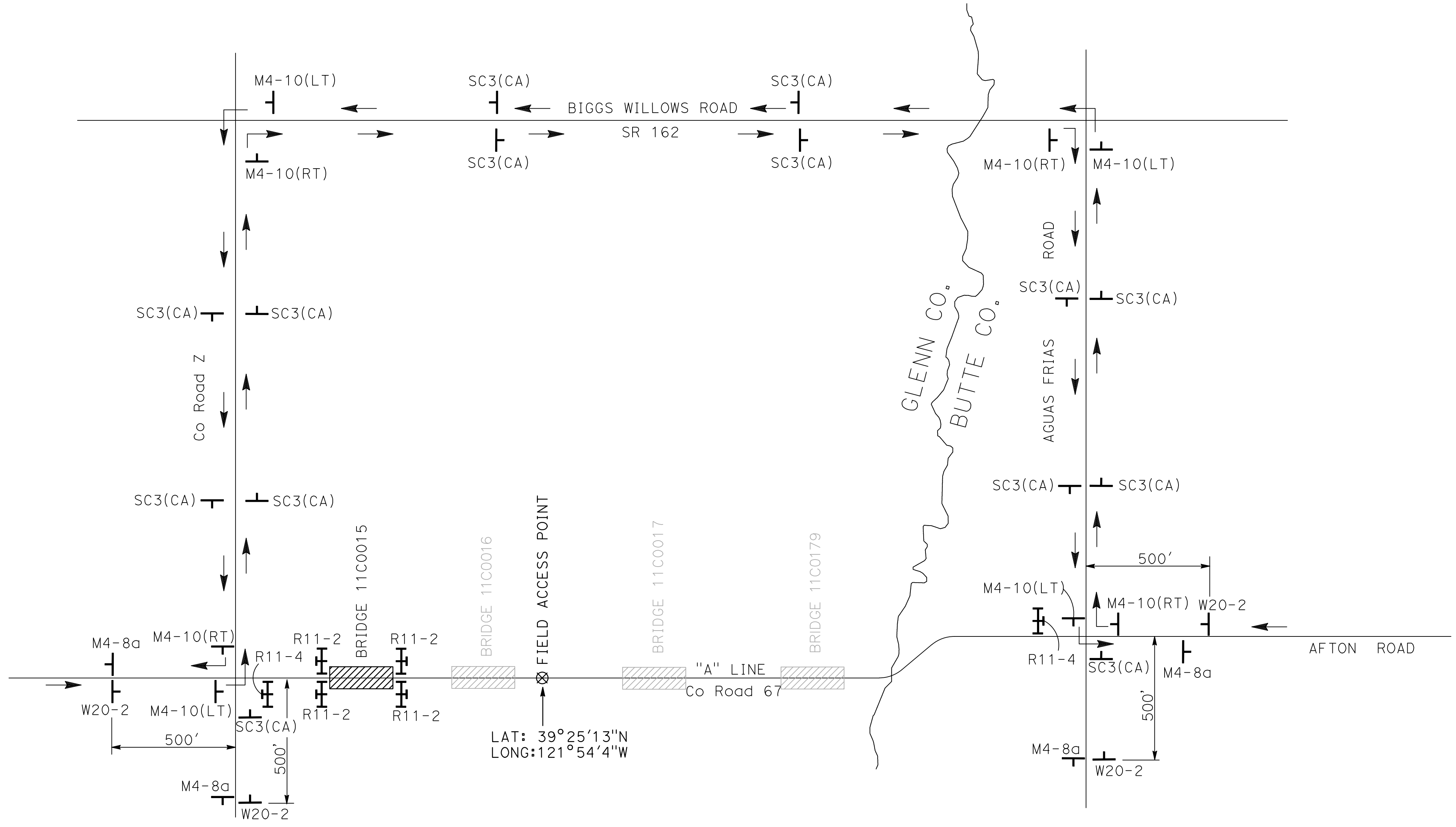
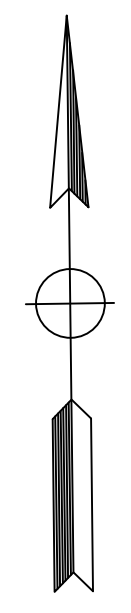
COUNTY OF GLENN
 PUBLIC WORKS AGENCY
 777 N. COLUSA STREET
 WILLOWS, CALIFORNIA 95988

GENERAL NOTES:

- SIGNS SHALL CONFORM TO THE 2014 CALIFORNIA MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD) AND THE 2022 CALTRANS STANDARD PLANS AND SPECIFICATIONS.
- SIGN LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
- SIGNS WILL REMAIN IN PLACE FOR DURATION OF PROJECT.
- CONTRACTOR SHALL OBTAIN CALTRANS ENCROACHMENT PERMIT FOR SIGNS ON SR 162.
- CONTRACTOR SHALL OBTAIN BUTTE COUNTY ENCROACHMENT PERMIT FOR SIGNS ON AGUAS FRIAS ROAD, AFTON ROAD, AND COUNTY ROAD 67 EAST OF THE GLENN/BUTTE COUNTY LINE.
- MAINTAIN INGRESS/EGRESS FROM AGRICULTURAL FIELD ACCESS POINT TO EITHER COUNTY ROAD Z OR AGUAS FRIAS ROAD AT ALL TIMES. COORDINATE CONSTRUCTION PHASING OF ALL PROJECTS TO MAINTAIN ACCESS OR PROVIDE ALTERNATIVE MEANS OF INGRESS/EGRESS. IF MULTIPLE BRIDGES ARE UNDER CONSTRUCTION SIMULTANEOUSLY, THE CONTRACTOR SHALL COORDINATE SIGN PLACEMENT WITH THE ENGINEER.

LEGEND

-  TEMPORARY SIGN AND POST
-  TYPE III BARRICADE WITH SIGN
L=8.00', WITH THREE WARNING LIGHTS (TYPE B)
-  CONSTRUCTION AREA
-  DIRECTION OF TRAVEL
-  AGRICULTURAL FIELD ACCESS POINT
LAT: 39°25'13"N, LONG: 121°54'4"W



DETOUR SIGNS

SIGN CODE	PANEL SIZE	SIGN MESSAGE	No. of SIGNS
M4-10(RT)	18" X 48"	DETOUR (RIGHT)	4
M4-10(LT)	18" X 48"	DETOUR (LEFT)	4
SC-3(CA)	18" X 48"	DETOUR (STRAIGHT)	14
R11-4	30" X 48"	ROAD CLOSED TO THROUGH TRAFFIC	2
R11-2	30" X 48"	ROAD CLOSED	4
M4-8a	18" X 24"	END DETOUR	4
W20-2	36" X 36"	DETOUR AHEAD	4

DETOUR PLAN
NO SCALE
DE-1

APPROVED FOR DETOUR SIGN WORK ONLY



USERNAME => KEVIN
 DGN FILE => 03-101782md001

LAST REVISION DATE PLOTTED => 5/31/2023
 05-31-23 TIME PLOTTED => 4:24:21 PM

GENERAL NOTES:

1. ALL TRAFFIC LINES SHALL CONFORM TO THE 2022 CALTRANS STANDARD PLANS AND SPECIFICATIONS.
2. LANE WIDTH SHALL BE MEASURED BETWEEN THE CENTERLINES OF EACH SINGLE STRIPE.
3. ALL SIGNING TO BE INSTALLED SHALL CONFORM TO THE 2014 CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD).

LEGEND

- (X) Prop SIGN AND POST
- (X) Exist SIGN AND POST TO BE REMOVED
- (X) TRAFFIC STRIPE DETAIL

PAVEMENT DELINEATION QUANTITIES

SHEET No.	LOCATION/STATIONING	DIRECTION	DETAIL No.	THERMOPLASTIC TRAFFIC STRIPE					COMMENTS
				4" WHITE SOLID	4" WHITE BROKEN	4" YELLOW BROKEN	8" WHITE SOLID	8" WHITE BROKEN	
				LF	LF	LF	LF	LF	
PD-1	9+50.00 TO 21+30.00	EB	27B	1180.0					
PD-1	9+50.00 TO 21+30.00	WB	27B	1180.0					
PD-1	9+50.00 TO 21+30.00	WB	5			1180.0			
TOTAL				2360.0		1180.0			

ROADSIDE SIGN QUANTITIES

SIGN CODE	PANEL SIZE	REMOVE ROADSIDE SIGN (EA)	ROADSIDE SIGN	REMARKS
			ONE POST EA	
OM3-L	12" x 36"	2	2	8'-0" LONG METAL POST PER S+d PLAN A73B
OM3-R	12" x 36"	2	2	8'-0" LONG METAL POST PER S+d PLAN A73B

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	CR 67	N/A	12	35

05-31-23
 REGISTERED CIVIL ENGINEER DATE

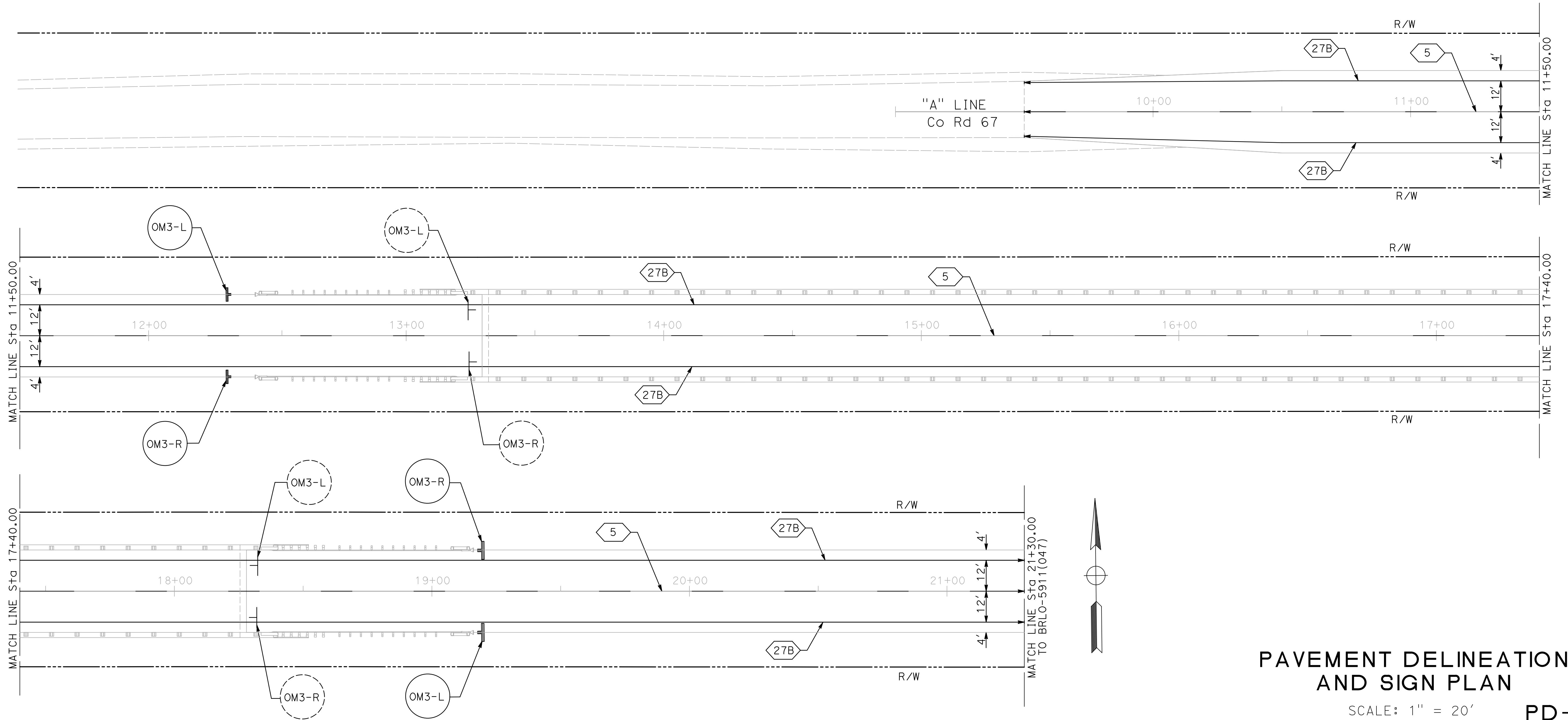
May 31, 2023
 PLANS APPROVAL DATE

GARY M. GORDON
 No. 42176
 Exp. 03-31-24
 CIVIL
 STATE OF CALIFORNIA

WILLDAN ENGINEERING
 2400 WASHINGTON AVENUE, SUITE 101
 REDDING, CALIFORNIA 96001

COUNTY OF GLENN
 PUBLIC WORKS AGENCY
 777 N. COLUSA STREET
 WILLOWS, CALIFORNIA 95988

PROJECT ENGINEER: GARY M. GORDON
 CALCULATED/DESIGNED BY: GARY M. GORDON
 CHECKED BY: R. UHLMANN
 REVISED BY: B. BURCH
 DATE REVISED: 05-31-23
 KCG



THIS PLAN IS ACCURATE FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

PAVEMENT DELINEATION AND SIGN PLAN
 SCALE: 1" = 20' PD-1

USERNAME => KEVIN
 DGN FILE => 03-101782nd001



LAST REVISION: DATE PLOTTED => 5/31/2023
 05-31-23 TIME PLOTTED => 4:32:32 PM

PROJECT ENGINEER: GARY M. GORDON
 CALCULATED/DESIGNED BY: GARY M. GORDON
 CHECKED BY: G. GORDON
 R. UHLMANN
 G. GORDON
 REVISED BY: KCG
 DATE REVISED: 05-31-23

EARTHWORK QUANTITIES

SHEET No.	STATION	ROADWAY EXCAVATION	EMBANKMENT (N)		IMPORTED BORROW	GEOSYNTHETIC REINFORCED EMBANKMENT
		CY	CY	CY		
L-1	"A" 9+50.00 TO "A" 13+35.55	1,095	42	42		
L-1	"A" 12+00.00 L+ TO "A" 13+23.57 L+					93.0
L-2 TO L-3	"A" 18+23.37 TO "A" 21+30.00	947	11	11		
TOTAL		2,042	53	53		93.0

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

TEMPORARY WATER POLLUTION CONTROL AND EROSION CONTROL QUANTITIES

SHEET No.	STATION	TEMPORARY FIBER ROLLS	TEMPORARY CONCRETE WASHOUT FACILITY	EROSION CONTROL (HYDROSEED)
		LF	EA	SQFT
WPC-1 TO WPC-3		TO BE DETERMINED		
WPC-1	"A" 9+50.00 L+ TO "A" 13+35.55 L+	775		1,975
WPC-1	"A" 9+50.00 R+ TO "A" 13+35.55 R+	771		1,716
WPC-2 TO WPC-3	"A" 18+23.37 L+ TO "A" 21+30.00 L+	628		582
WPC-2 TO WPC-3	"A" 18+23.37 R+ TO "A" 21+30.00 R+	638		1,414
TOTAL		2,812	1	5,687

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Glenn	CR 67	N/A	13	35

05-31-23
 REGISTERED CIVIL ENGINEER DATE

May 31, 2023
 PLANS APPROVAL DATE

GARY M. GORDON
 No. 42176
 Exp. 03-31-24
 CIVIL
 STATE OF CALIFORNIA

WILLDAN ENGINEERING
 2400 WASHINGTON AVENUE, SUITE 101
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COUNTY OF GLENN
 PUBLIC WORKS AGENCY
 777 N. COLUSA STREET
 WILLOWS, CALIFORNIA 95988

SAFETY EDGE

SHEET No.	STATION	DIRECTION	TOTAL THICKNESS OF SAFETY EDGE (N)	LENGTH SAFETY EDGE (N)	HOT MIX ASPHALT (TYPE A) (N)
			FT	LF	TON
L-1	"A" 9+50.00 L+ TO "A" 12+41.30 L+	WB	0.52	291.30	4.9
L-1	"A" 9+50.00 R+ TO "A" 12+41.30 R+	EB	0.52	291.30	4.9
L-2 TO L-3	"A" 19+16.20 L+ TO "A" 21+30.00 L+	WB	0.52	213.80	3.6
L-2 TO L-3	"A" 19+16.20 R+ TO "A" 21+30.00 R+	EB	0.52	213.80	3.6
SUBTOTAL					17.0

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

PAVEMENT STRUCTURE QUANTITIES

SHEET No.	STATION	REMOVE ASPHALT CONCRETE PAVEMENT	HOT MIX ASPHALT (TYPE A)	CLASS 2 AGGREGATE BASE	TACK COAT
		SQFT	TON	CY	TON
L-1	"A" 9+50.00 TO "A" 13+29.50	7,809	438.7	1,224	0.81
L-2 TO L-3	"A" 18+28.00 TO "A" 21+30.00	5,870	364.3	1,003	0.67
L-1 TO L-3	SAFETY EDGE		17.0		
TOTAL		13,679	820.0	2,227	1.48

MIDWEST GUARDRAIL SYSTEM

SHEET No.	STATION	TRANSITION RAILING (TYPE WB-31)	ALTERNATIVE IN-LINE TERMINAL SYSTEM
		EA	EA
L-1	"A" 12+41.30 L+		
L-1	"A" 12+41.30 R+		
L-1	"A" 12+41.30 L+ TO "A" 12+93.37 L+		1
L-1	"A" 12+41.30 R+ TO "A" 12+93.37 R+		1
L-1	"A" 12+93.37 L+ TO "A" 13+18.37 L+	1	
L-1	"A" 12+93.37 R+ TO "A" 13+18.37 R+	1	
L-2	"A" 18+39.13 L+ TO "A" 18+64.13 L+	1	
L-2	"A" 18+39.13 R+ TO "A" 18+64.13 R+	1	
L-2 TO L-3	"A" 18+64.13 L+ TO "A" 19+16.20 L+		1
L-2 TO L-3	"A" 18+64.13 R+ TO "A" 19+16.20 R+		1
TOTAL		4	4

SUMMARY OF QUANTITIES

Q-1



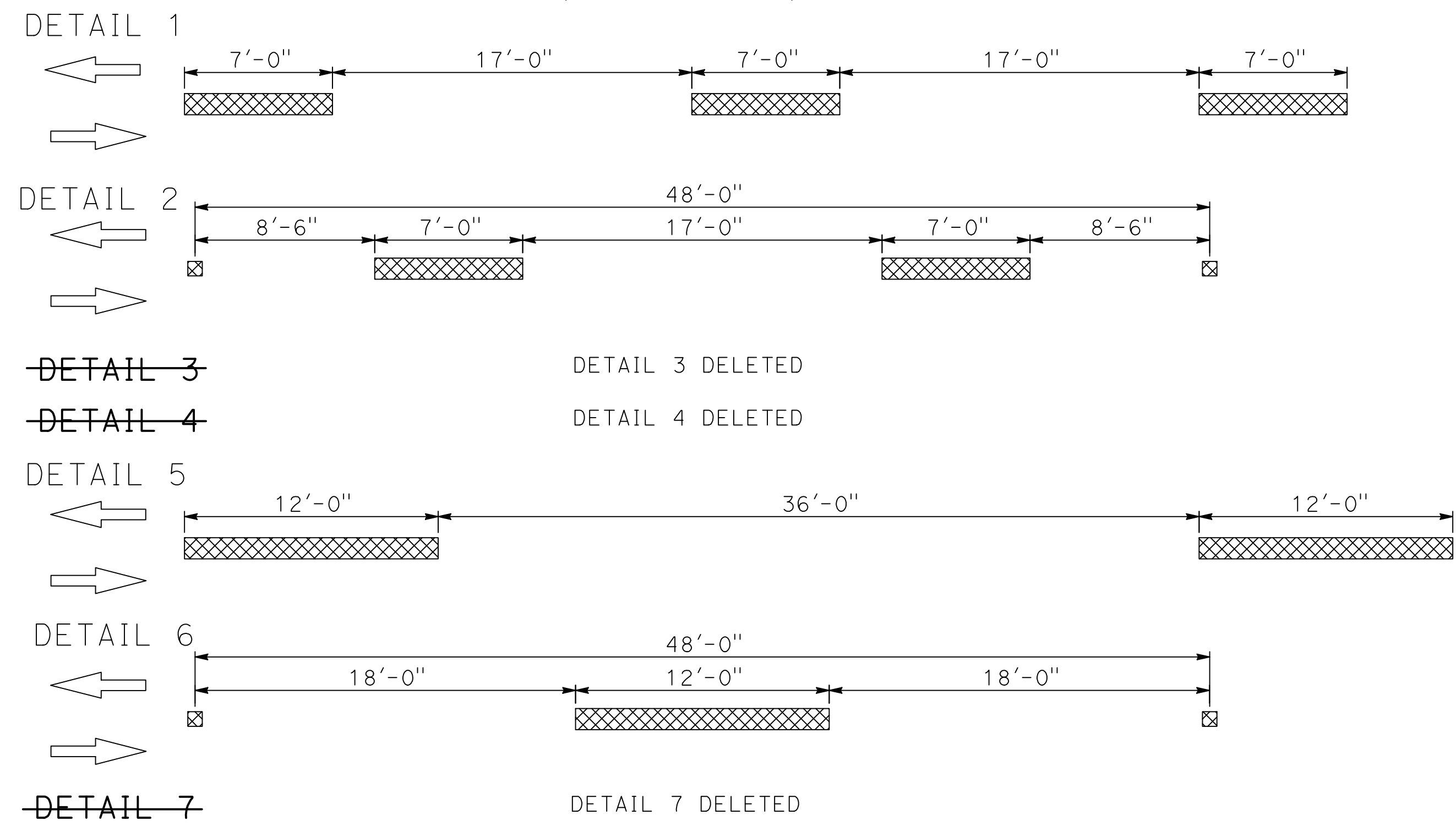
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	CR 67	N/A	14	35

05-31-23
DATE
REGISTERED CIVIL ENGINEER
GARY M. GORDON
No. 42176
Exp. 03-31-24
CIVIL
STATE OF CAL FORM #

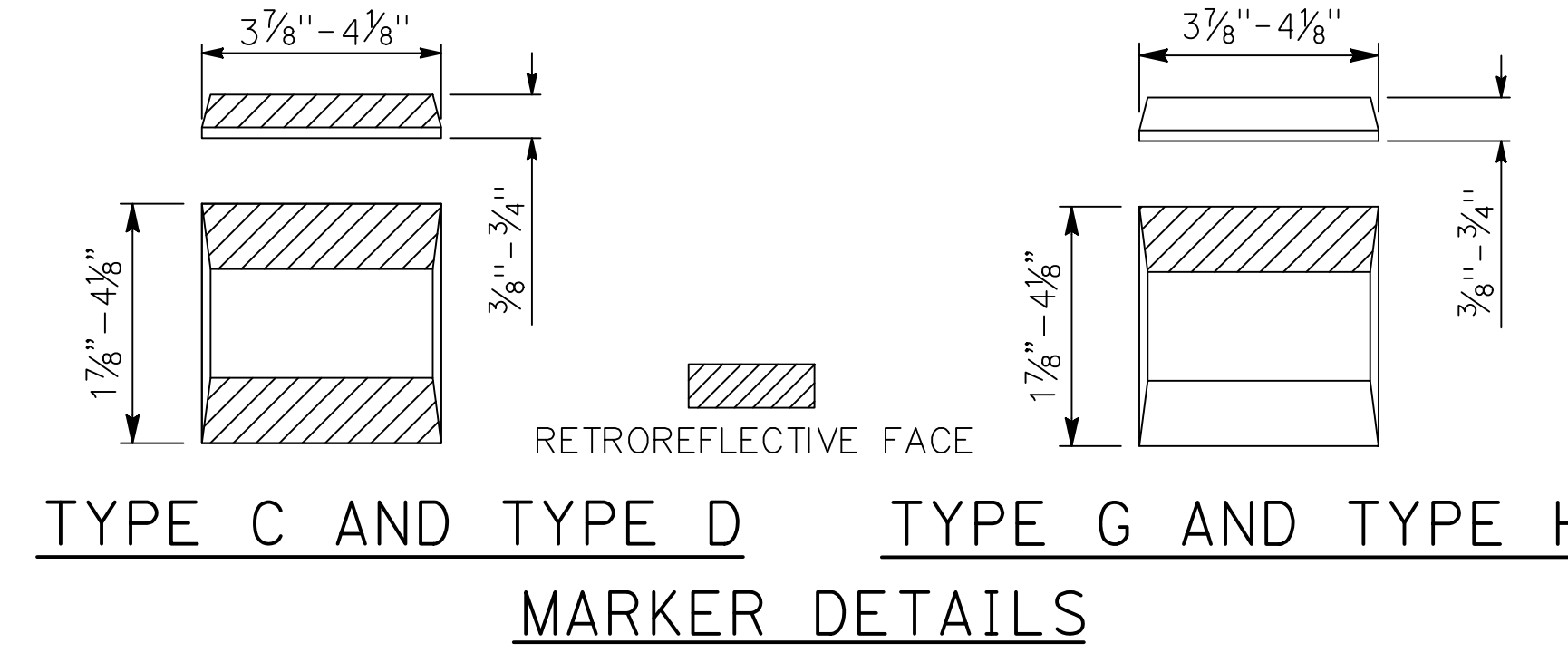
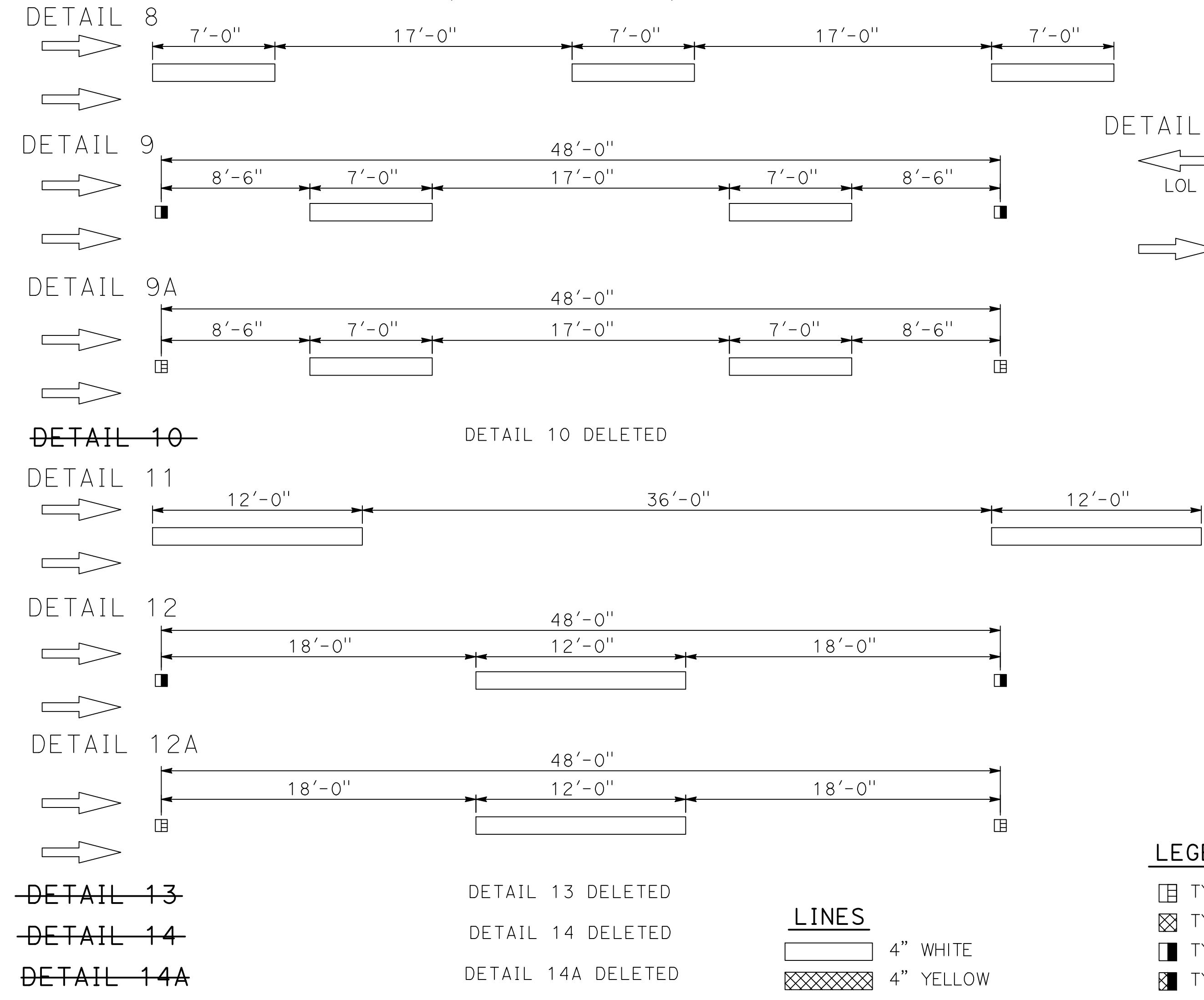
May 31, 2023
PLANS APPROVAL DATE

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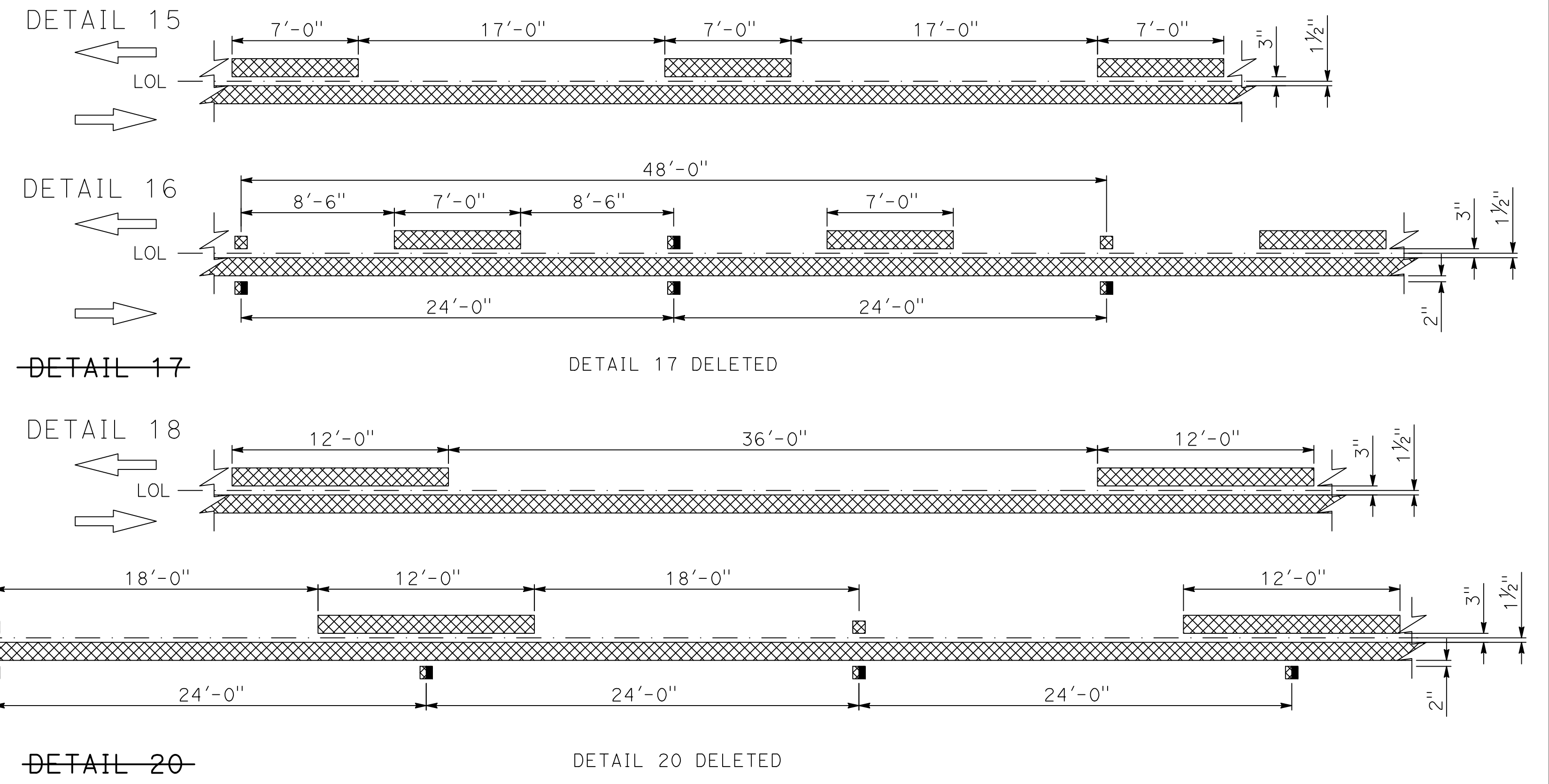
CENTERLINES
(2 LANE HIGHWAYS)



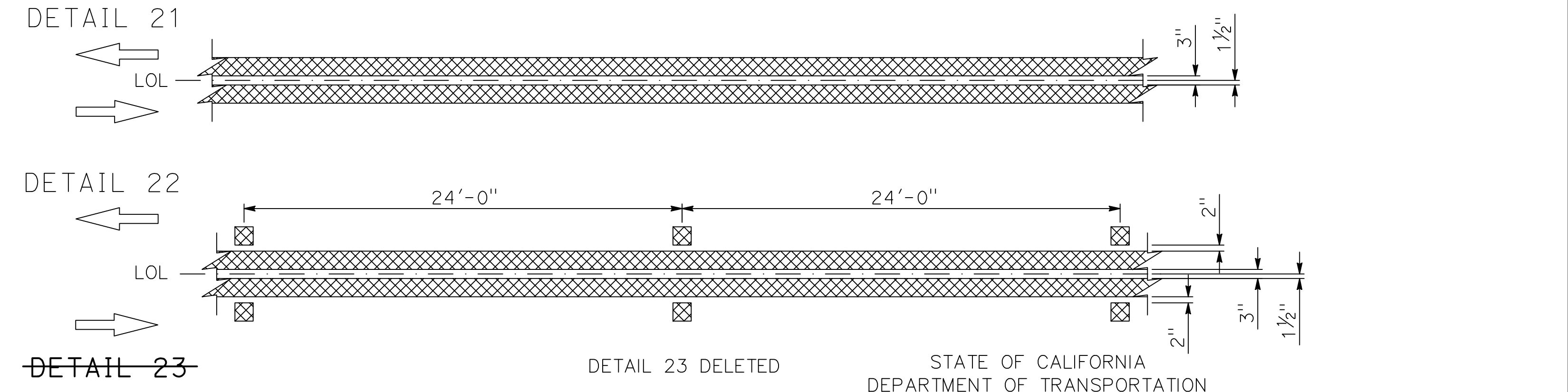
LANE LINES
(MULTILANE HIGHWAYS)



NO PASSING ZONES-ONE DIRECTION



NO PASSING ZONES-TWO DIRECTION



LEGEND

- ☐ TYPE C RED-CLEAR RETROREFLECTIVE MARKER
- ▣ TYPE D TWO-WAY YELLOW RETROREFLECTIVE MARKER
- TYPE G ONE-WAY CLEAR RETROREFLECTIVE MARKER
- ▣ TYPE H ONE-WAY YELLOW RETROREFLECTIVE MARKER

LINES

- ▭ 4" WHITE
- ▣ 4" YELLOW

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKERS AND TRAFFIC LINES
TYPICAL DETAILS**

NO SCALE

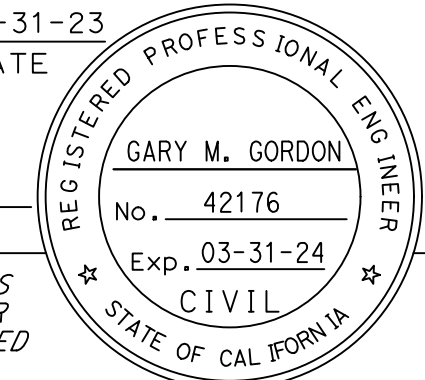
RSP A20A DATED OCTOBER 21, 2022 SUPERSEDES STANDARD PLAN A20A
DATED AUGUST 1, 2022 - PAGE 12 OF THE STANDARD PLANS BOOK DATED 2022.

REVISED STANDARD PLAN RSP A20A MOD

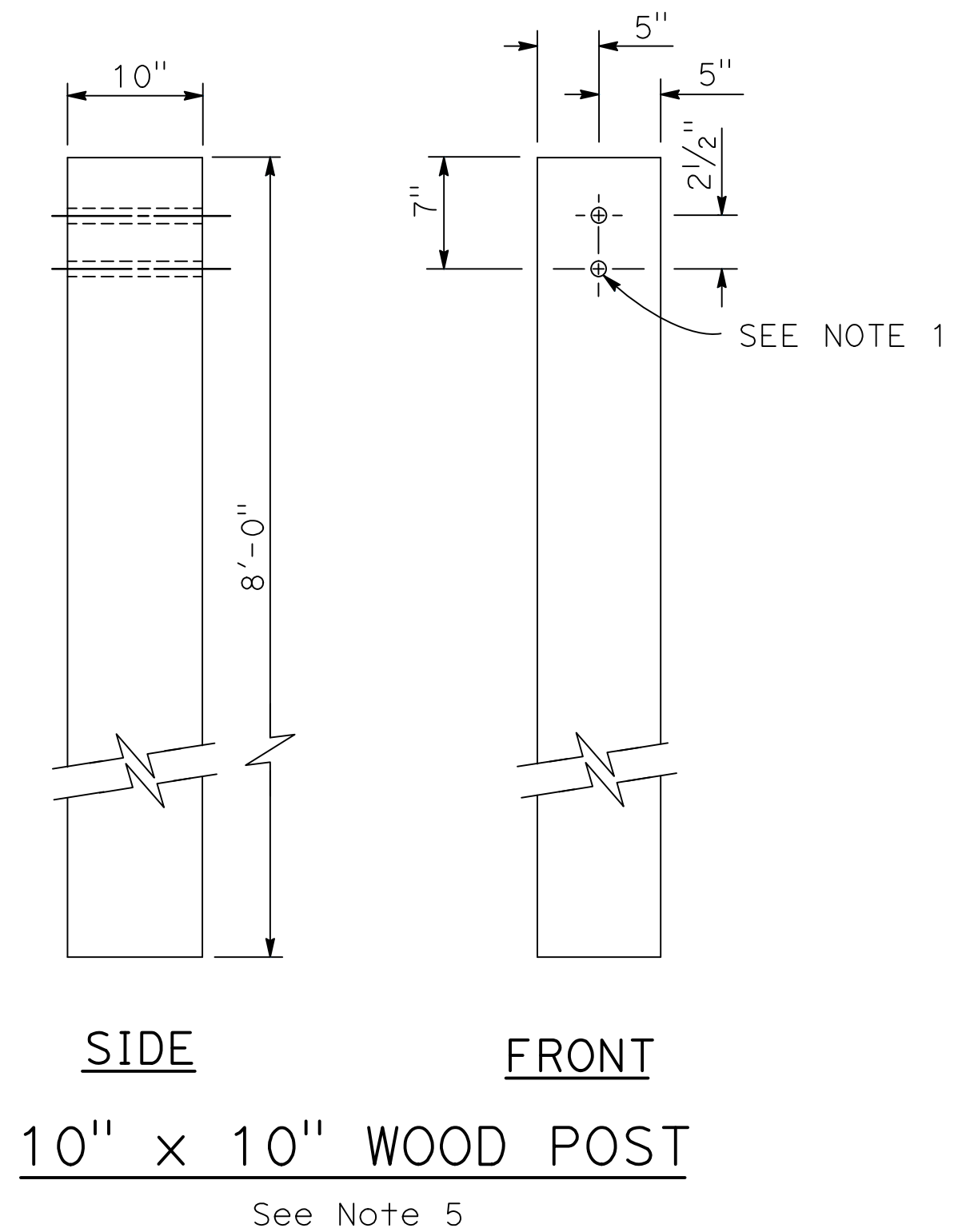
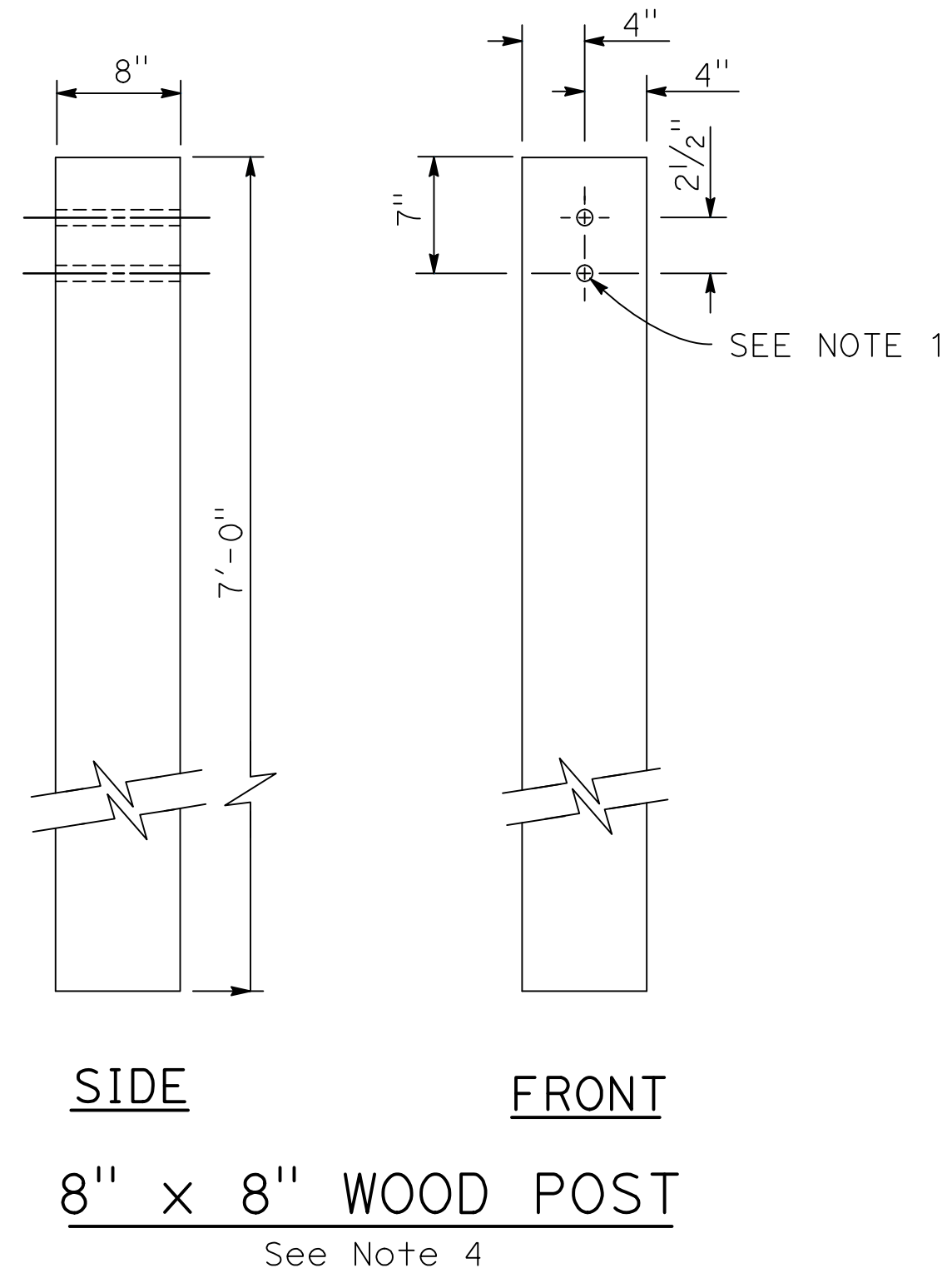
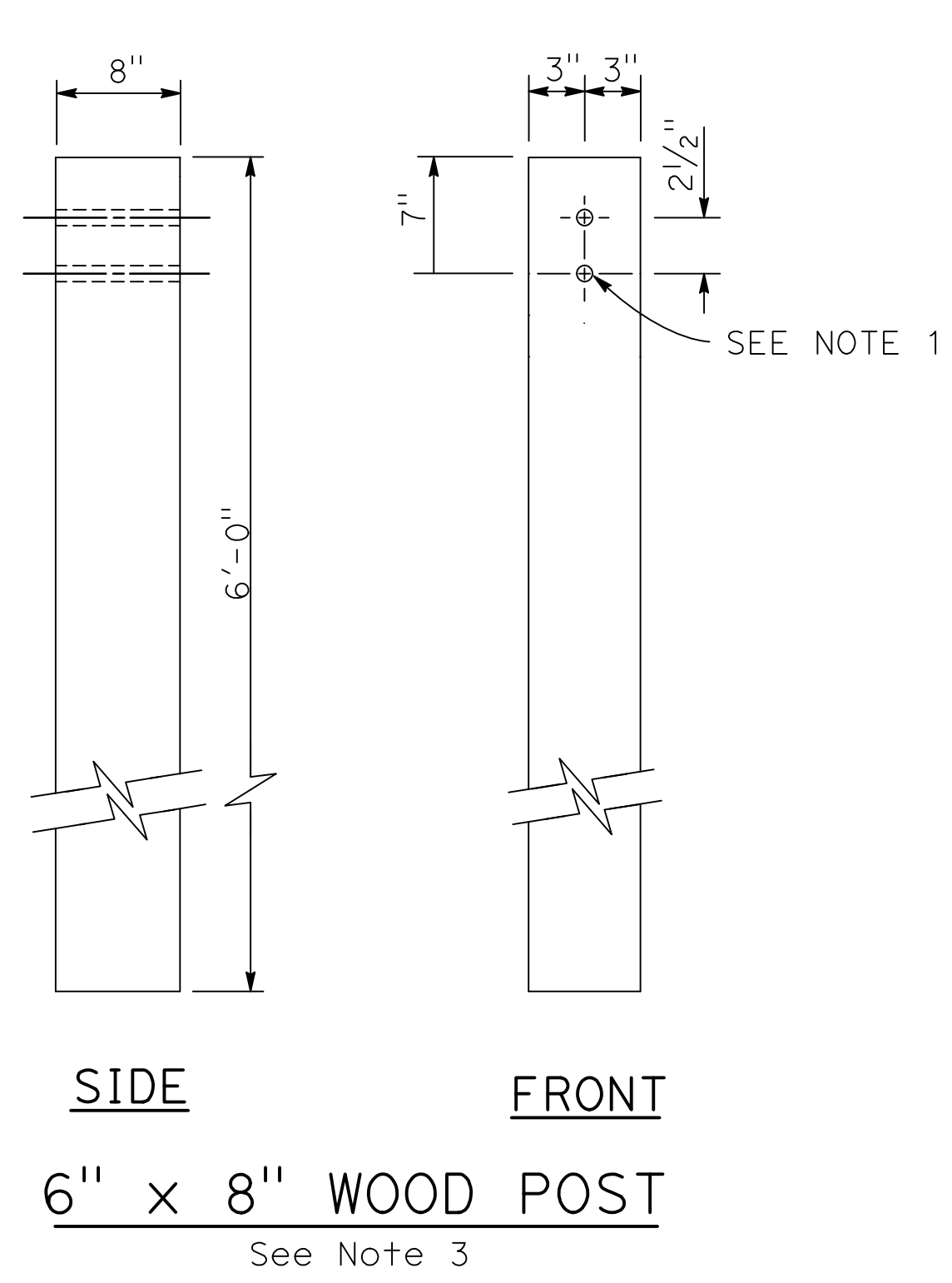
2022 REVISED STANDARD PLAN RSP A20A

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	CR 67	N/A	15	35

<i>Gary M. Gordon</i> REGISTERED CIVIL ENGINEER	05-31-23 DATE
May 31, 2023 PLANS APPROVAL DATE	
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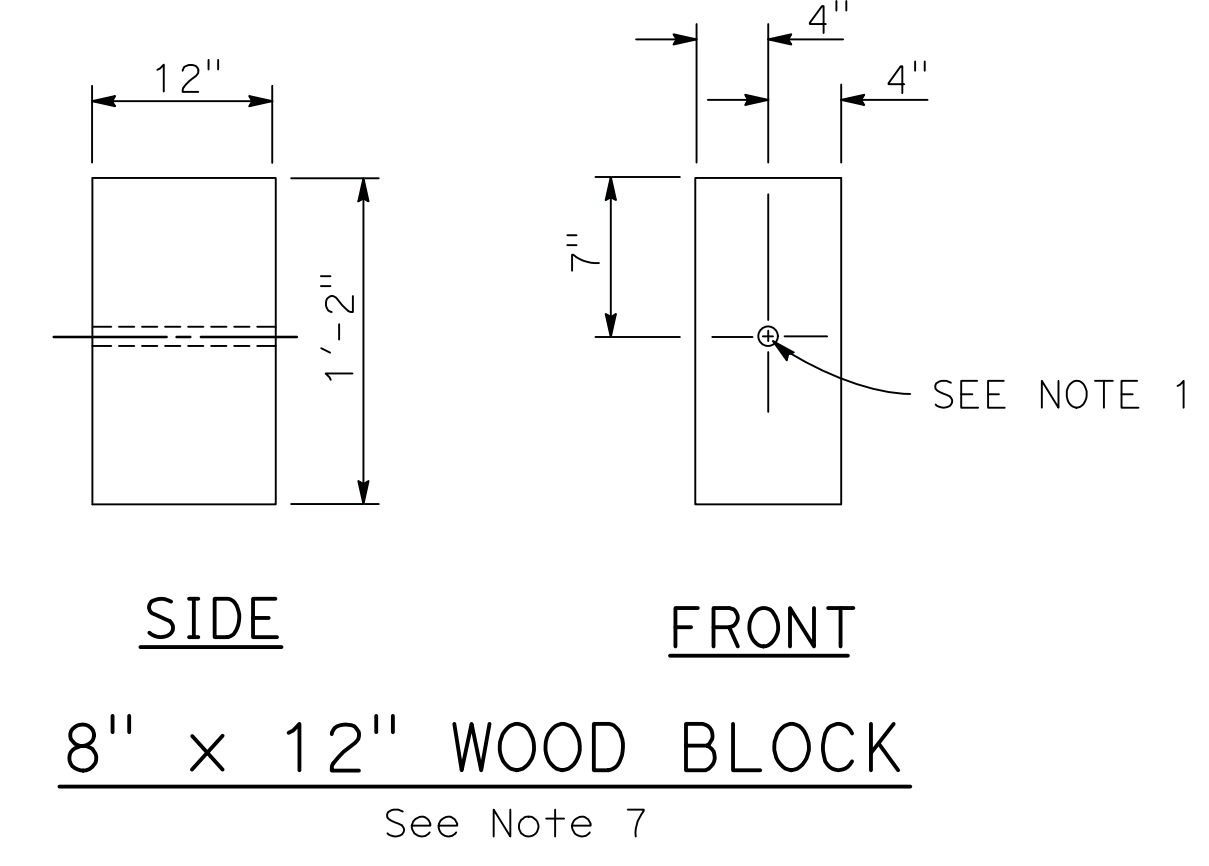
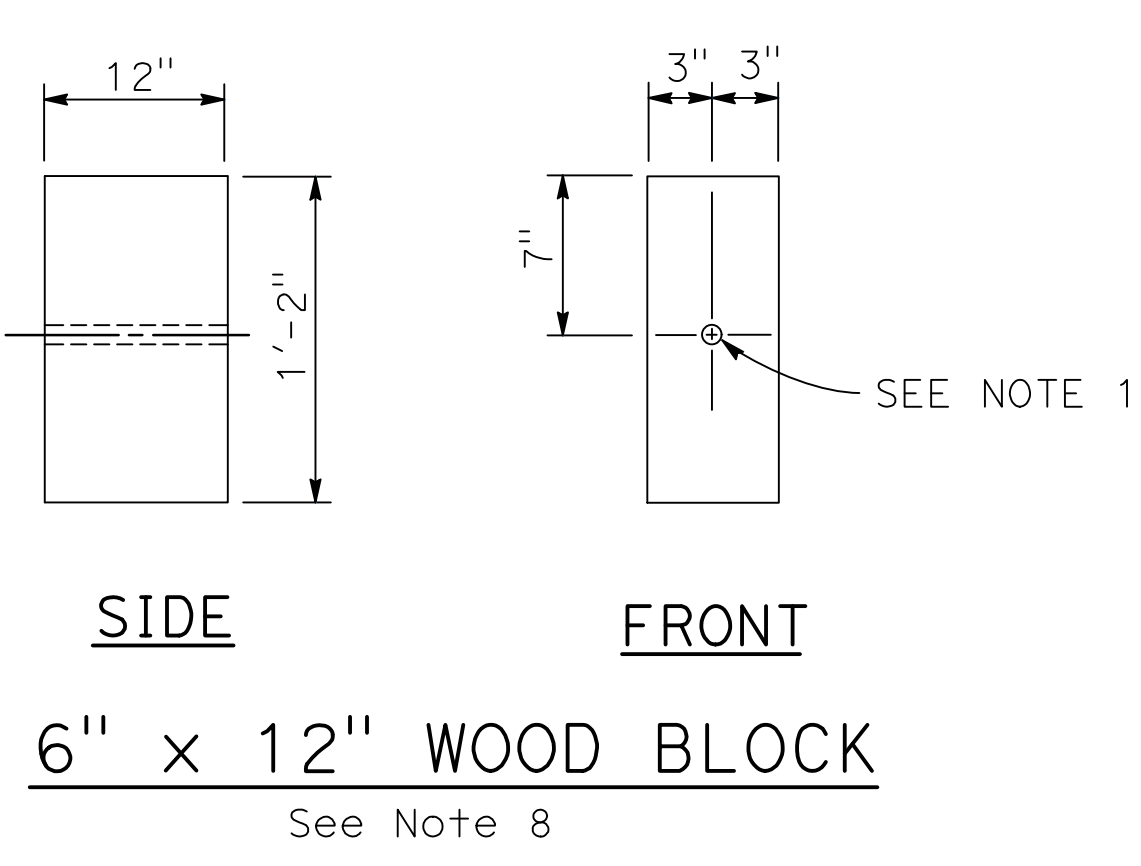
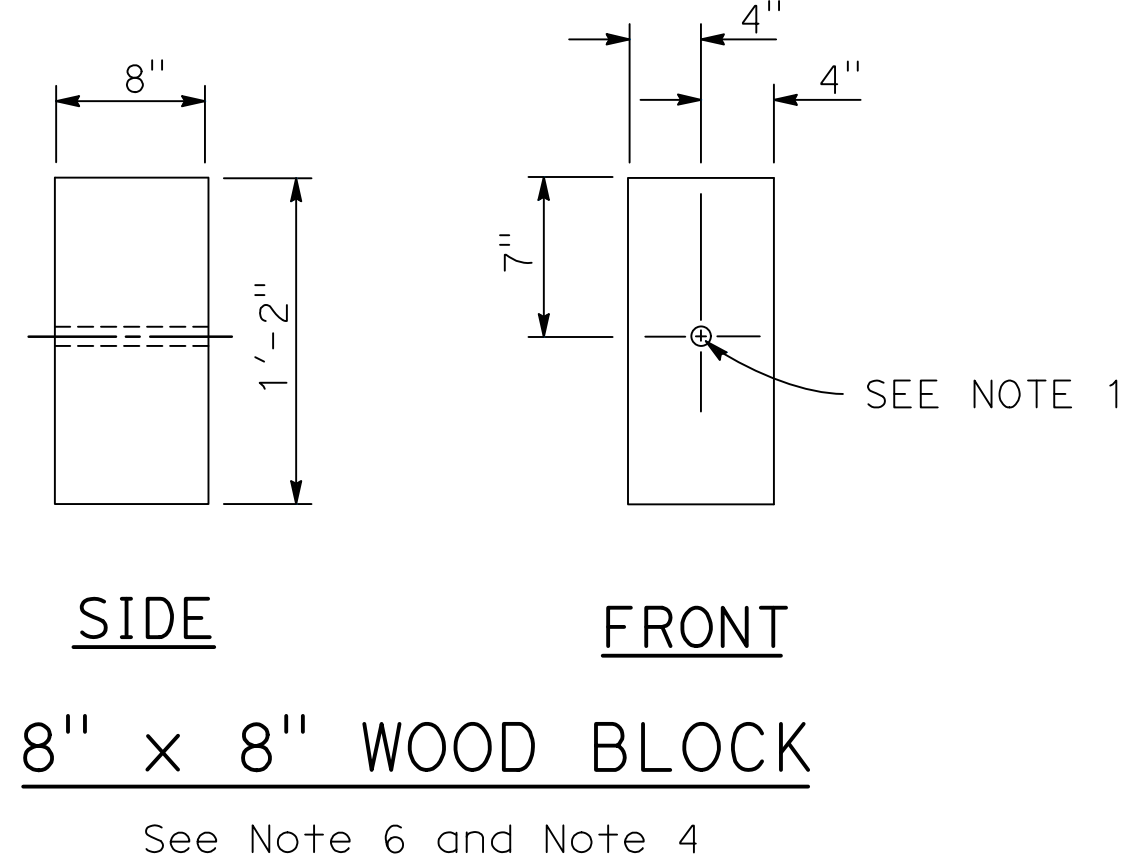
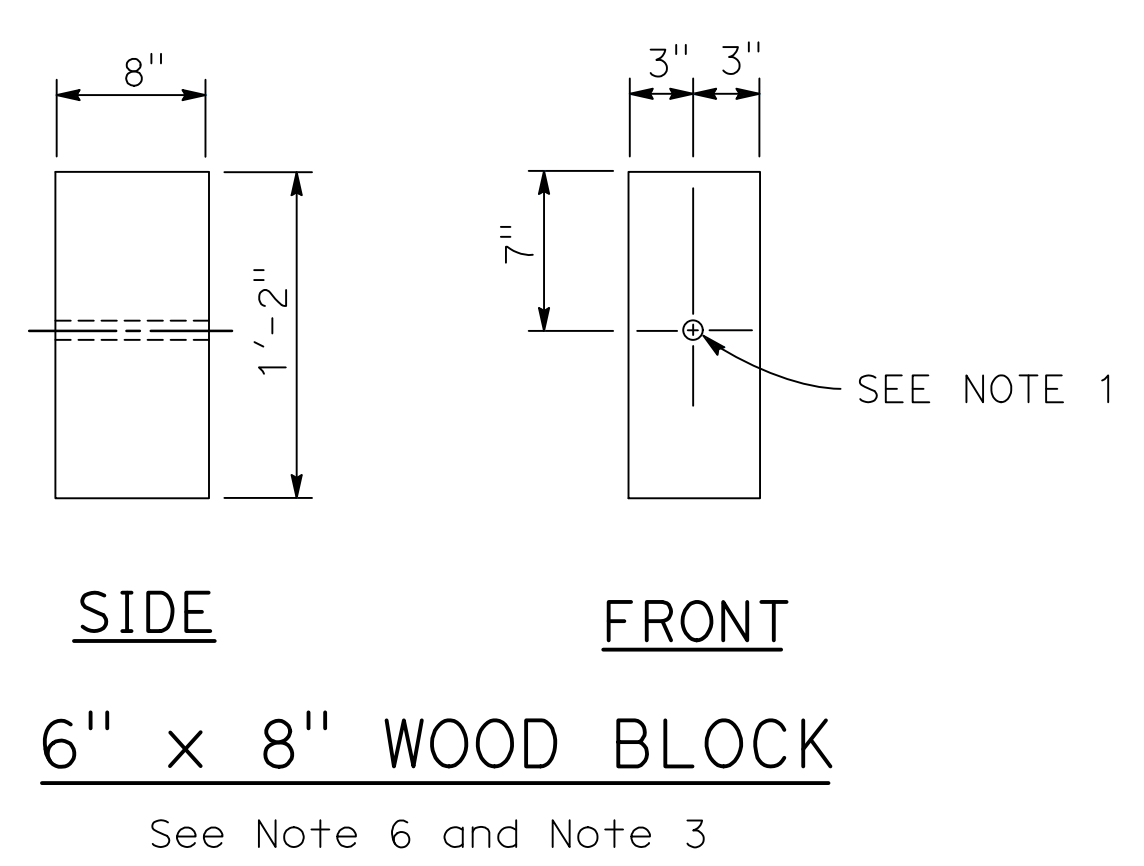


TO ACCOMPANY PLANS DATED 05-31-23



NOTES:

1. All holes in wood posts and blocks shall be 3/4" Dia ± 1/16".
2. Dimensions shown for wood post are nominal.
3. This post and block combination used for standard line post sections of MGS.
4. This post and 8" x 12" block combination used for line post sections of MGS on narrow roadways.
5. This post and 8" x 12" block combination is typically used where strengthened line post sections of MGS are warranted to shield fixed objects.
6. See Revised Standard Plan RSP A77L3 for use of 6" x 8" and 8" x 8" wood blocks.
7. To be used with 8" x 8" x 7'-0" wood post if installed with 6" height dike.
8. To be used with 6" x 8" x 6'-0" wood post if installed with 6" height dike.



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**MIDWEST GUARDRAIL SYSTEM
WOOD POST AND
WOOD BLOCK DETAILS**

NO SCALE

RSP A77N1 DATED OCTOBER 21, 2022 SUPERSEDES STANDARD PLAN A77N1
DATED AUGUST 1, 2022 - PAGE 67 OF THE STANDARD PLANS BOOK DATED 2022.

REVISED STANDARD PLAN RSP N771

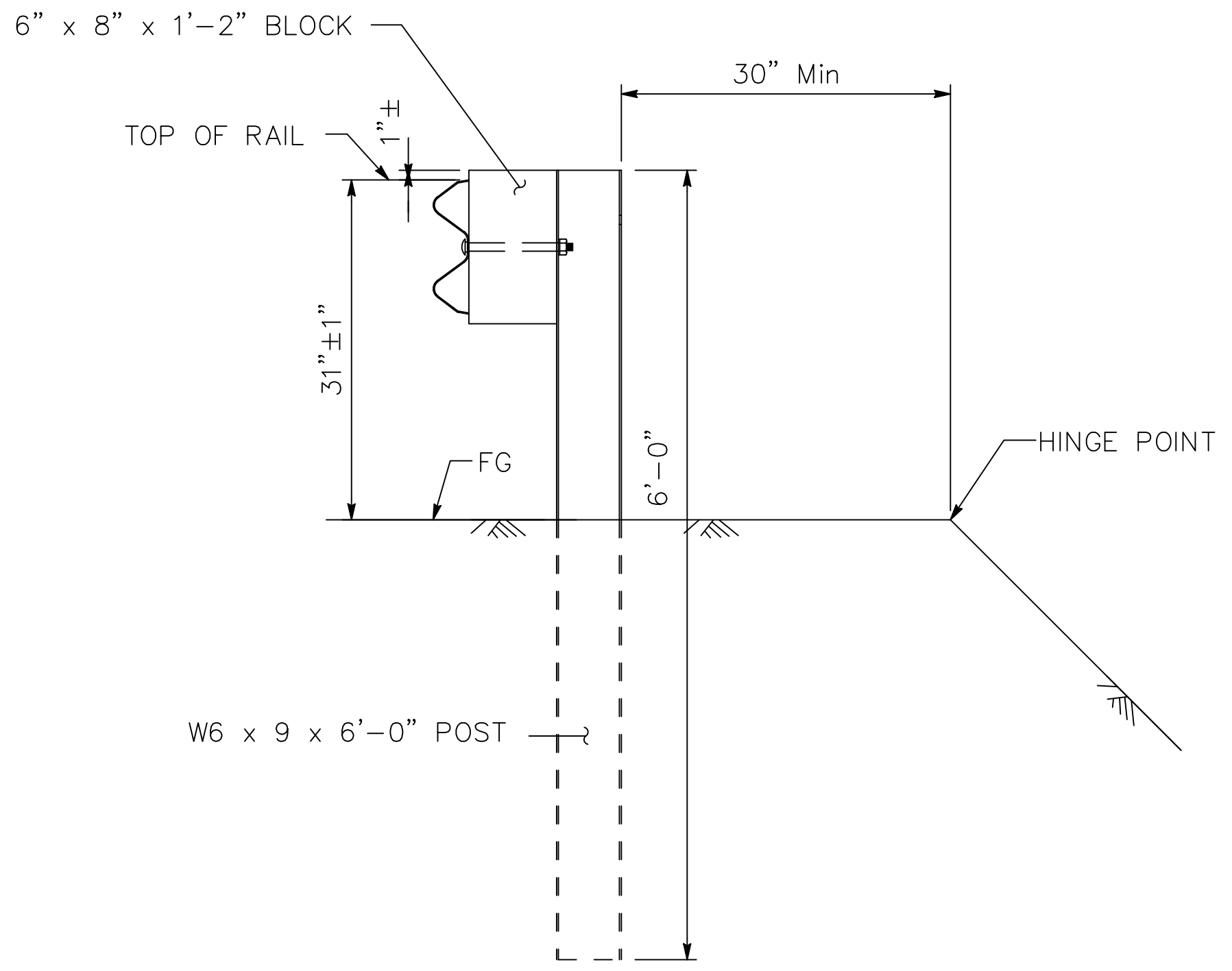
2022 REVISED STANDARD PLAN RSP A77N1

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TIME PLOTTED = 8:31:12 AM

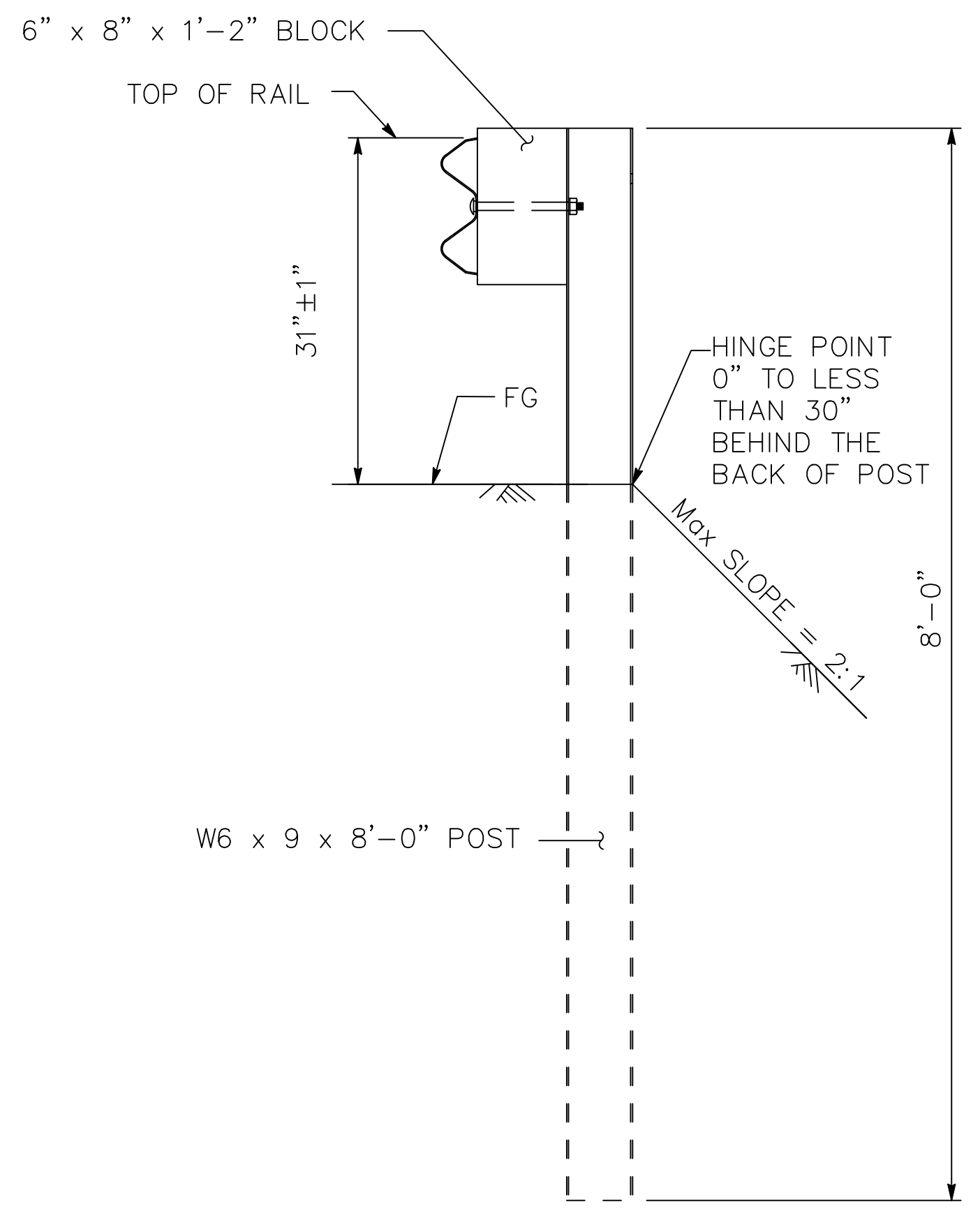
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	CR 67	N/A	16	35

<i>Gary M. Gordon</i> REGISTERED CIVIL ENGINEER	05-31-23 DATE
May 31, 2023 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.	

TO ACCOMPANY PLANS DATED 05-31-23

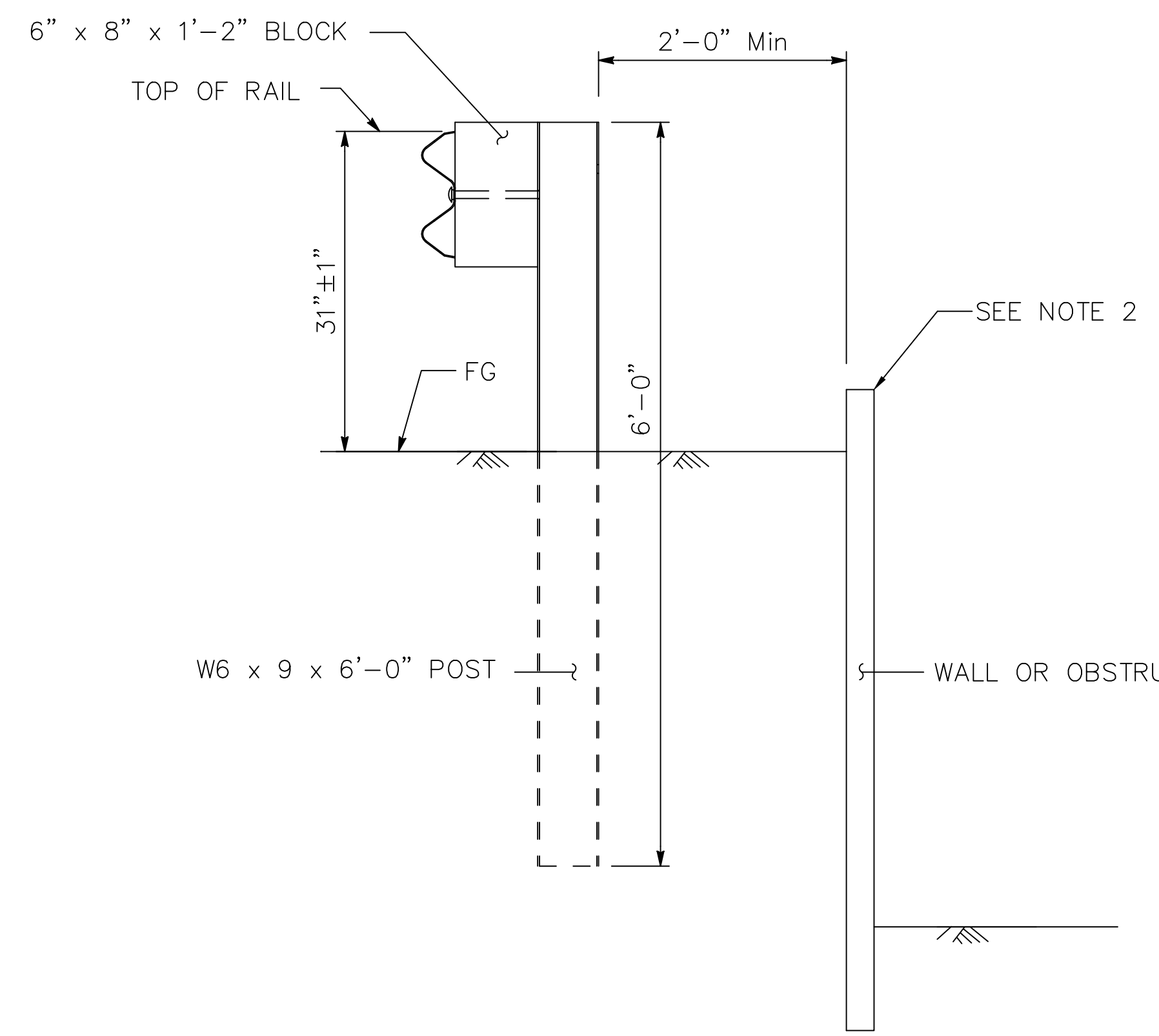


DETAIL A
TYPICAL ROADWAY INSTALLATION
See Note 1

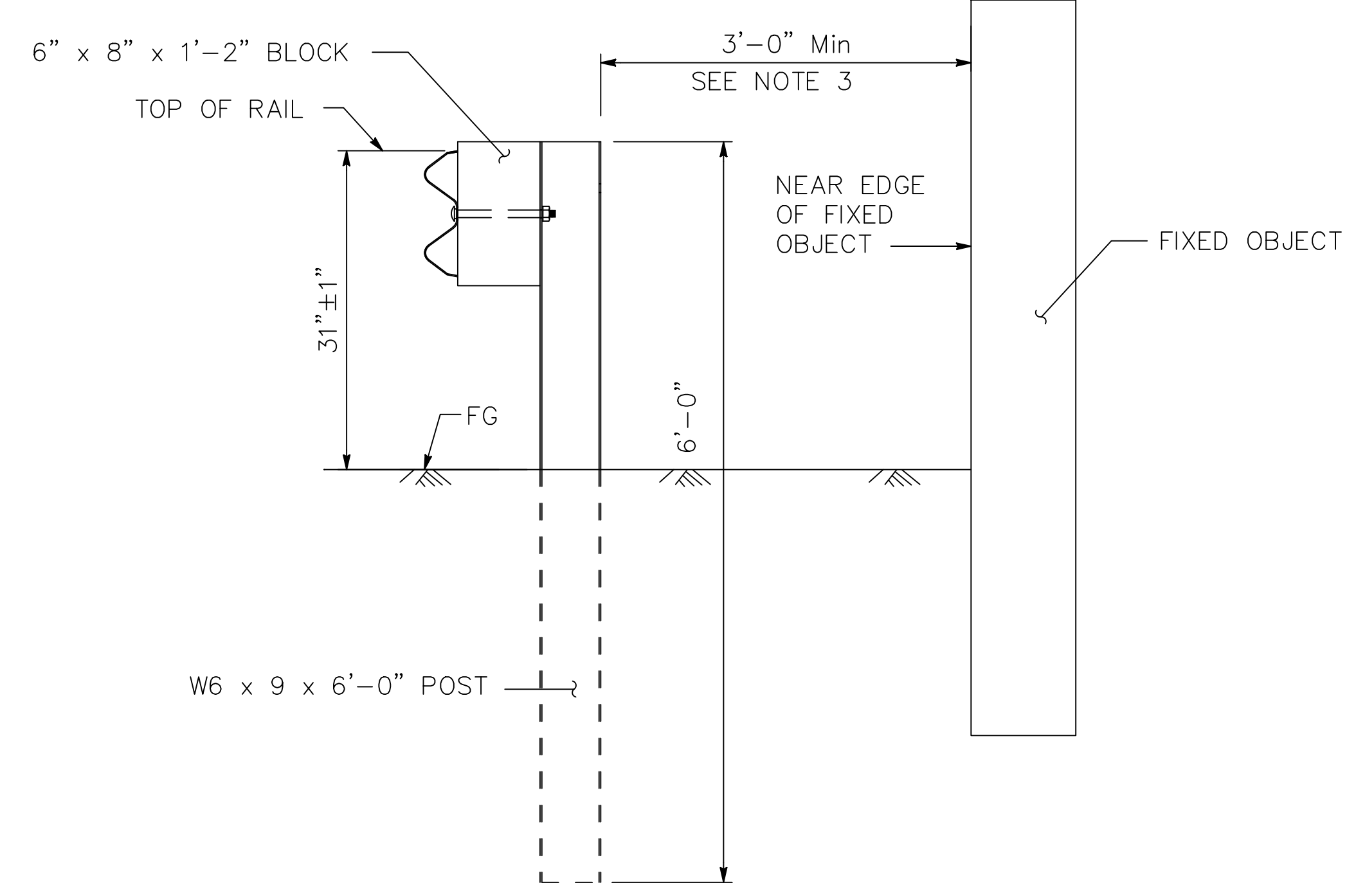


DETAIL B
NARROW ROADWAY INSTALLATION
See Note 1

POST EMBEDMENT



DETAIL C
AT OR BELOW GRADE



DETAIL D
ABOVE GRADE

INSTALLATION AT WALLS OR OBSTRUCTIONS

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
MIDWEST GUARDRAIL SYSTEM
TYPICAL LINE POST EMBEDMENT
AND HINGE POINT OFFSET DETAILS

NO SCALE

RSP A77N3 DATED OCTOBER 21, 2022 SUPERSEDES STANDARD PLAN A77N3
DATED AUGUST 1, 2022 - PAGE 69 OF THE STANDARD PLANS BOOK DATED 2022.

REVISED STANDARD PLAN RSP A77N3

2022 REVISED STANDARD PLAN RSP A77N3

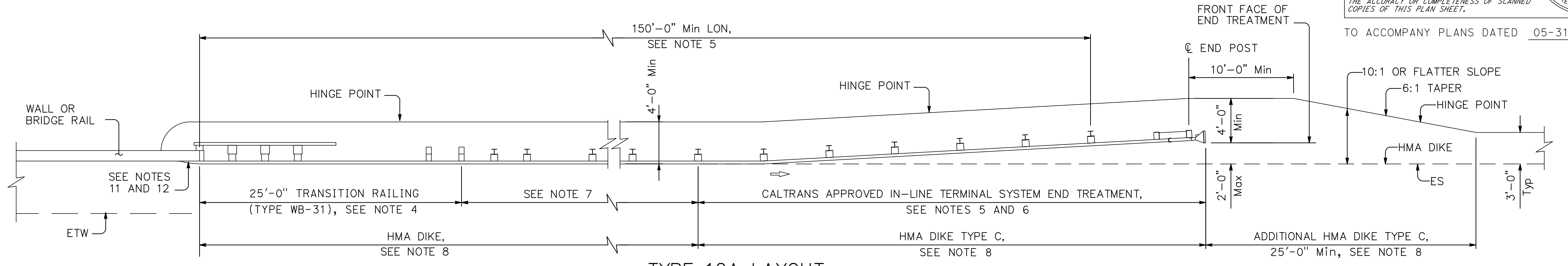
DATE PLOTTED = 5/31/23
TIME PLOTTED = 9:09:58 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	CR 67	N/A	17	35

REGISTERED CIVIL ENGINEER DATE 05-31-23
 May 31, 2023
 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.

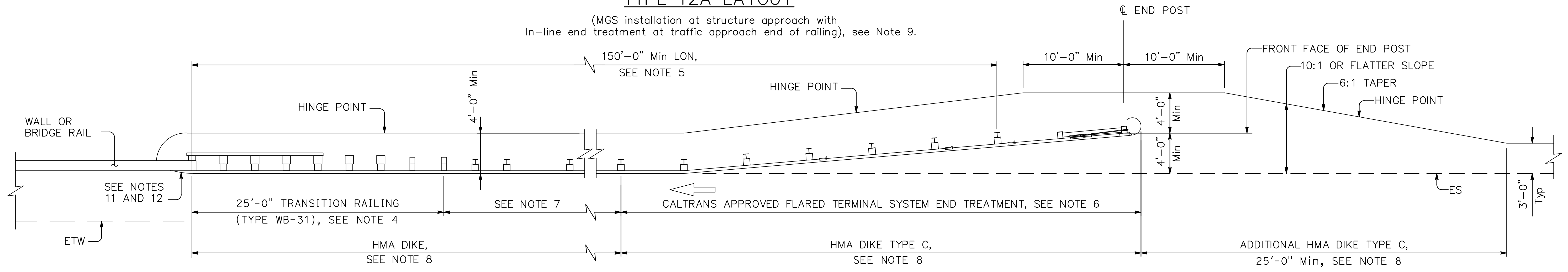
TO ACCOMPANY PLANS DATED 05-31-23

2022 REVISED STANDARD PLAN RSP A77Q1



TYPE 12A LAYOUT

(MGS installation at structure approach with
In-line end treatment at traffic approach end of railing), see Note 9.



TYPE 12B LAYOUT

(MGS installation at structure approach with
Flared end treatment at traffic approach end of railing), see Note 9.

NOTES:

- Line post, blocks and hardware to be used are shown on Standard Plans A77L1, A77L2, A77M1, A77N2 and Revised Standard Plan RSP A77N1.
- MGS post spacing to be 6'-3" center to center, except as otherwise noted.
- Except as noted, line posts are 6'-0" long Steel W6 x 9 or W6 x 8.5 with blocks, or 6" x 8" x 6'-0" wood with blocks.
- For Transition Railing (Type WB-31) details for Types 12A and 12B Layouts, see Standard Plan A77U4.
- A minimum of 150'-0" of MGS is needed to develop Length of Need (LON).
- The type of terminal system end treatment to be used will be shown on the Project Plans.
- Dependent on site conditions (embankment height, side slopes or other fixed objects), it may be advisable to construct additional guard railing (a length equal to multiples of 12'-6" with 6'-3" post spacing) between the transition railing and end treatment.
- Where placement of dike is required with guard railing installations, see Revised Standard Plan RSP A77N4 for dike positioning details.
- Type 12A or Type 12B Layouts are typically used at the approach end of a structure, to the right or left on two-lane conventional highway where the roadbed width across the structure is 40 feet or less.
- See Revised Standard Plan RSP A77Q3 for typical layout used left of approaching traffic at the ends of each structure on multilane freeways or expressways with separate adjacent or parallel bridges.
- For additional details of typical connections to bridge rail, see Connection Detail AA on Standard Plans A77U1 and A77U2 and Connection Detail FF on Standard Plans A77V1 and A77V2.
- For additional details of a typical connection to walls or abutments, see Revised Standard Plans RSP A77U3A and RSP A77U3B.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**MIDWEST GUARDRAIL SYSTEM
TYPICAL LAYOUTS FOR
STRUCTURE APPROACH**

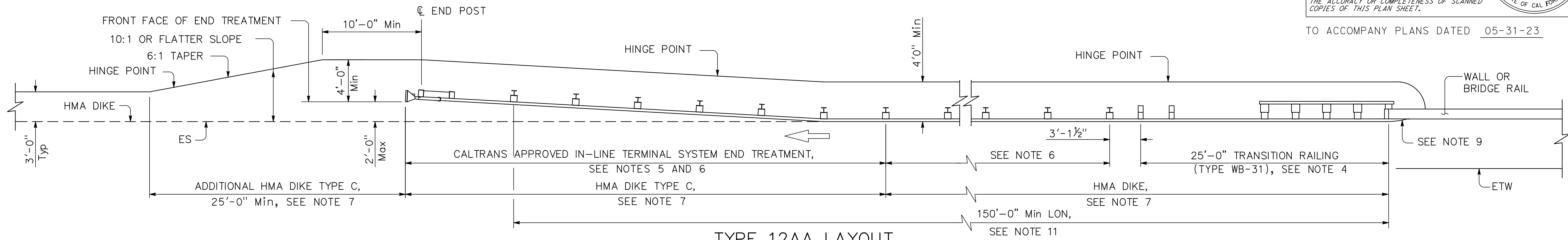
NO SCALE
RSP A77Q1 DATED OCTOBER 21, 2022 SUPERSEDES STANDARD PLAN A77Q1
DATED AUGUST 1, 2022 - PAGE 92 OF THE STANDARD PLANS BOOK DATED 2022.

REVISED STANDARD PLAN RSP A77Q1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	CR 67	N/A	18	35

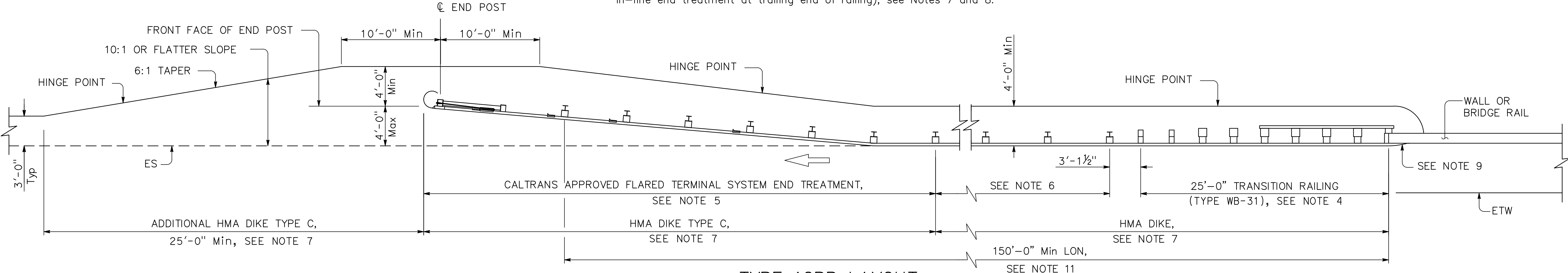
REGISTERED CIVIL ENGINEER DATE 05-31-23
 GARY M. GORDON No. 42176 Exp. 03-31-24 CIVIL
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 05-31-23



TYPE 12AA LAYOUT

(MGS installation at structure departure with in-line end treatment at trailing end of railing), see Notes 7 and 8.



TYPE 12BB LAYOUT

(MGS installation at structure departure with Flared end treatment at trailing end of railing), see Notes 7 and 8.

NOTES:

- Line post, blocks and hardware to be used are shown on Standard Plans A77L1, A77L2, A77M1, A77N2 and Revised Standard Plan RSP A77N1.
- MGS post spacing to be 6'-3" center to center, except as otherwise noted.
- Except as noted, line posts are 6'-0" long Steel W6 x 9 or W6 x 8.5 with blocks, or 6" x 8" x 6'-0" wood with blocks.
- For Transition Railing (Type WB-31) details for Types 12AA and 12BB Layouts, see Standard Plan A77U4.
- The type of terminal system to be used will be shown on the Project Plans.
- Dependent on site conditions (embankment height, side slopes, other fixed objects), it may be advisable to construct additional MGS (a length equal to multiples of 12'-6" with 6'-3" post spacing) between the transition railing and end treatments.
- Where placement of dike is required with MGS installations, see Revised Standard Plan RSP A77N4 for dike positioning details.
- Type 12AA or Type 12BB Layouts are typically used to the right or left of traffic departing a structure on two-way conventional highways where the roadbed width across the structure is less than 40 feet.
- For additional details of typical connections to bridge rail, see Connection Detail CC on Standard Plan A77U2 and Connection Detail HH on Standard Plan A77V2.
- For roadways with parallel structures and non traversable medians, the Type 12AA or Type 12BB layout may be used.
- A minimum of 150'-0" of MGS is needed to develop Length of Need (LON).

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**MIDWEST GUARDRAIL SYSTEM
TYPICAL LAYOUTS FOR
STRUCTURE APPROACH**

NO SCALE

RSP A77Q4 DATED OCTOBER 21, 2022 SUPERSEDES STANDARD PLAN A77Q4
DATED AUGUST 1, 2022 - PAGE 95 OF THE STANDARD PLANS BOOK DATED 2022.

REVISED STANDARD PLAN RSP A77Q4

2022 REVISED STANDARD PLAN RSP A77Q4

DATE PLOTTED = 5/31/23
TIME PLOTTED = 9:31:35 AM

CALTRANS STANDARD PLANS, 2022 EDITION

- A10A ABBREVIATIONS (SHEET 1 OF 2)
- A10B ABBREVIATIONS (SHEET 2 OF 2)
- A10C LINES AND SYMBOLS (SHEET 1 OF 3)
- A10D LINES AND SYMBOLS (SHEET 2 OF 3)
- A10E LINES AND SYMBOLS (SHEET 3 OF 3)
- A62C LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL BRIDGE
- B0-1 BRIDGE DETAILS
- B6-21 JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")

LEGEND

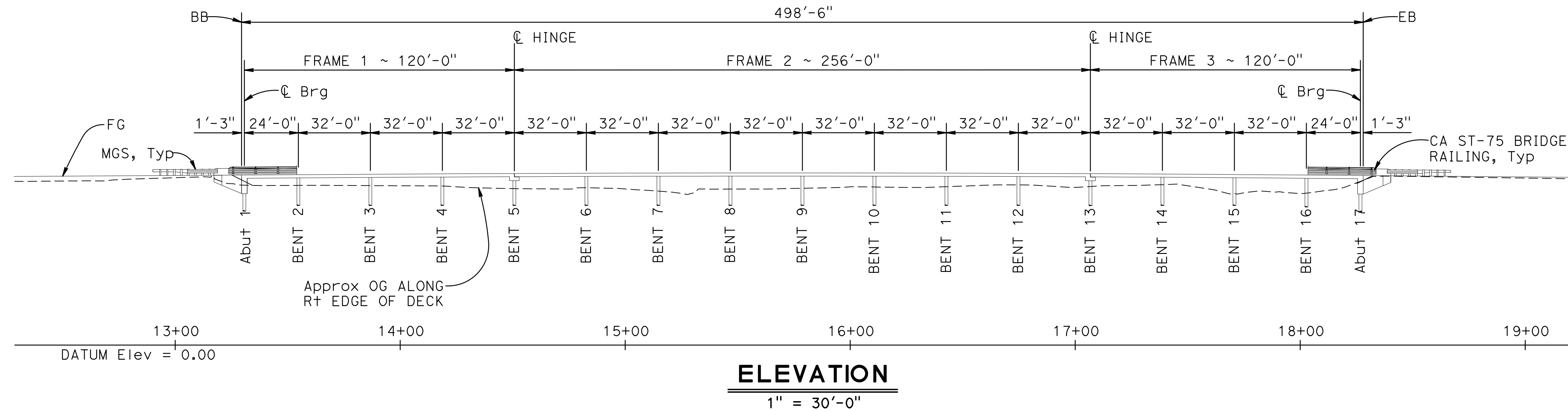
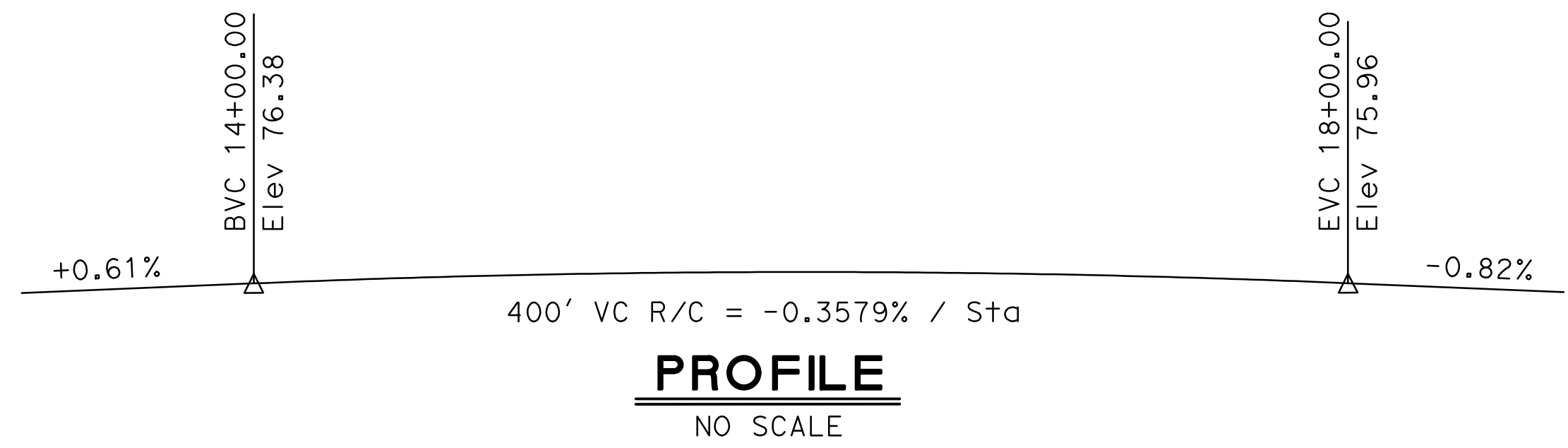
- Denotes Existing Structure
- Denotes Proposed Structure
- STANDARD PLAN SHEET No.
- DETAIL No.
- Ⓐ SECTION IDENTIFICATION

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Glenn	CR 67	NA	19	35

REGISTERED CIVIL ENGINEER
 DATE 05-31-23
 May 31, 2023
 PLANS APPROVAL DATE

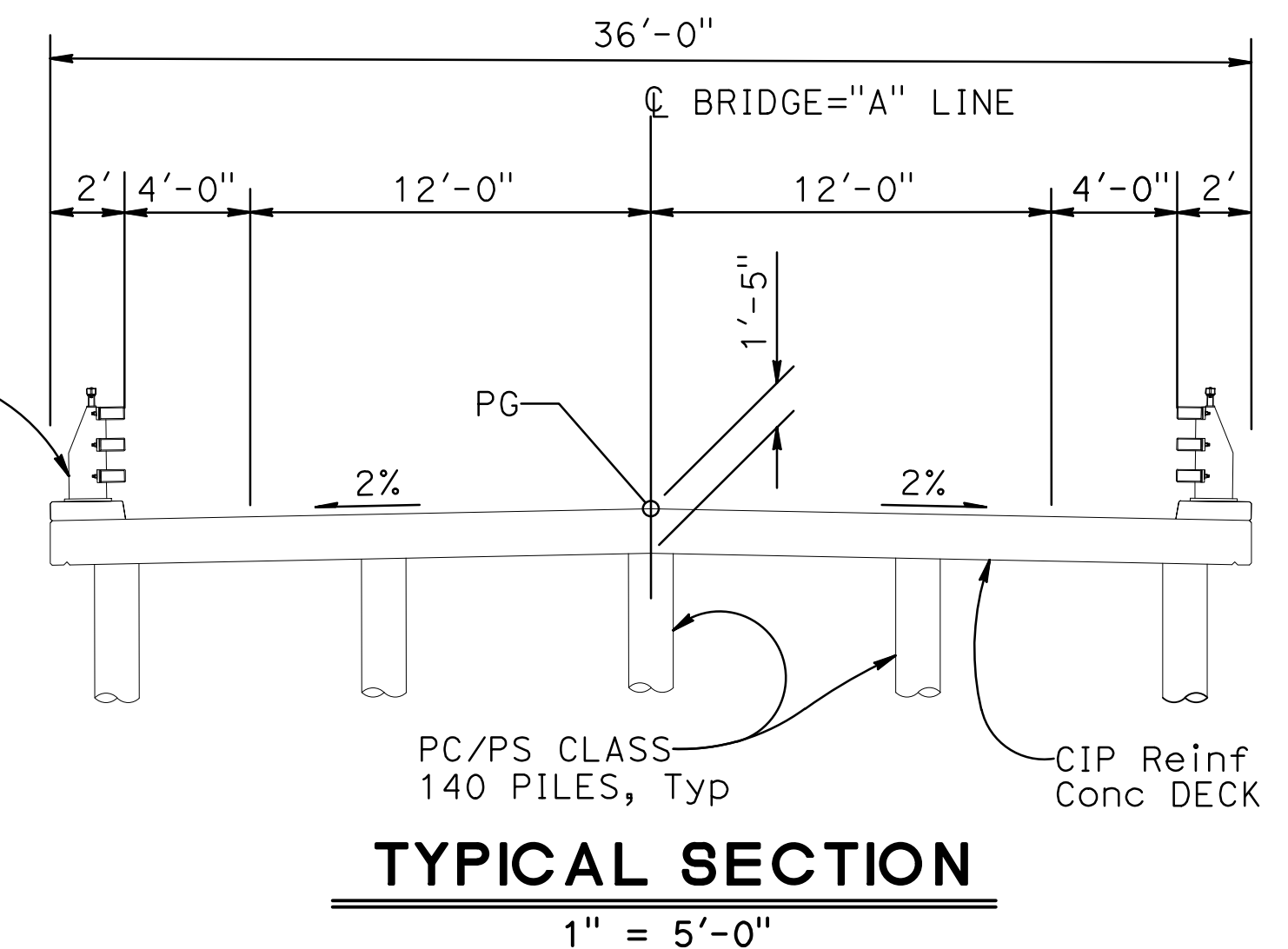
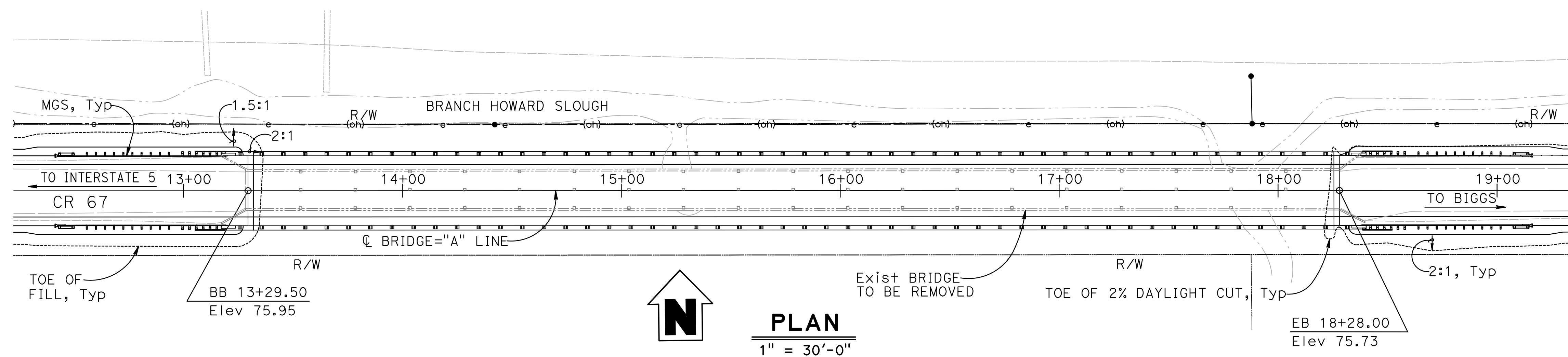
REGISTERED PROFESSIONAL ENGINEER
 GARY M. GORDON
 No. 42176
 Exp. 03-31-24
 CIVIL
 STATE OF CALIFORNIA

Prepared by:
 WILLDAN ENGINEERING
 2400 WASHINGTON AVENUE, SUITE 101
 REDDING, CALIFORNIA 96001



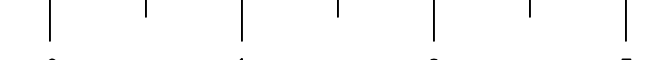
INDEX TO BRIDGE PLANS

SHEET No.	TITLE
1	GENERAL PLAN
2	DECK CONTOURS
3	FOUNDATION PLAN
4	ABUTMENT LAYOUT
5	BENT LAYOUT
6	SLAB REINFORCEMENT DETAILS No. 1
7	SLAB REINFORCEMENT DETAILS No. 2
8	SLAB HINGE DETAILS
9	CALIFORNIA ST-75 BRIDGE RAIL DETAILS No. 1
10	CALIFORNIA ST-75 BRIDGE RAIL DETAILS No. 2
11	CALIFORNIA ST-75 BRIDGE RAIL DETAILS No. 3
12	CALIFORNIA ST-75 BRIDGE RAIL DETAILS No. 4
13	CALIFORNIA ST-75 BRIDGE RAIL DETAILS No. 5
14	SOIL LEGEND 1 OF 2
15	SOIL LEGEND 2 OF 2
16	LOG OF TEST BORINGS 1 OF 2
17	LOG OF TEST BORINGS 2 OF 2



DESIGN	BY J. DeMARTINI	CHECKED M. ILEY	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE	PREPARED FOR	BRIDGE NO.	BRANCH HOWARD SLOUGH BRIDGE (REPLACE)	
DETAILS	BY R. UHLMANN	CHECKED J. DeMARTINI	LAYOUT	BY R. UHLMANN	COUNTY OF GLENN	11C0015		
QUANTITIES	BY J. DeMARTINI	CHECKED R. UHLMANN	SPECIFICATIONS	BY X	PUBLIC WORKS AGENCY	POST MILES		
						G. GORDON	NA	GENERAL PLAN
						PROJECT ENGINEER		REVISION DATES
								11/10/14 01/28/17 05/31/23
								SHEET 1 OF 17

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



FILE => 11-0015-a-gp01

DISREGARD PRINTS BEARING EARLIER REVISION DATES

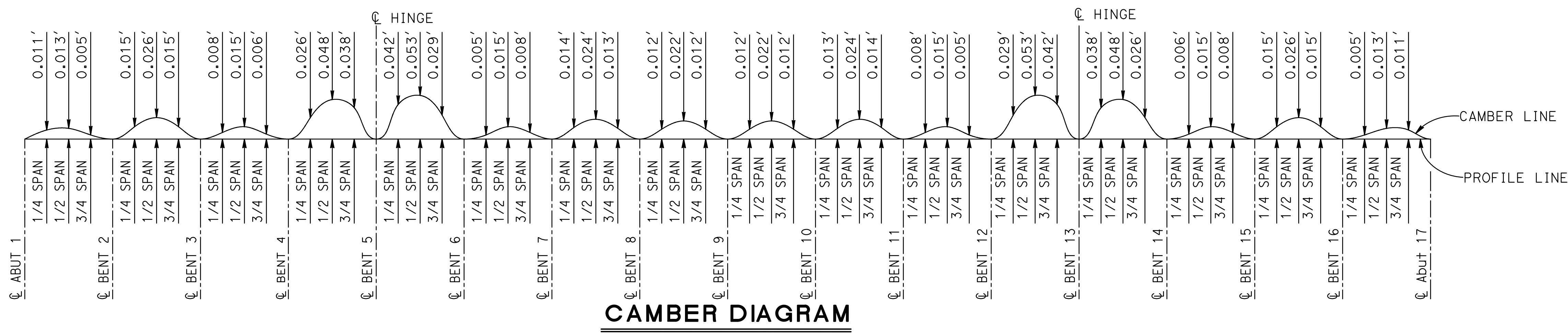
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03	Glenn	CR 67	NA	20	35

REGISTERED CIVIL ENGINEER
 DATE 05-31-23
 May 31, 2023
 PLANS APPROVAL DATE

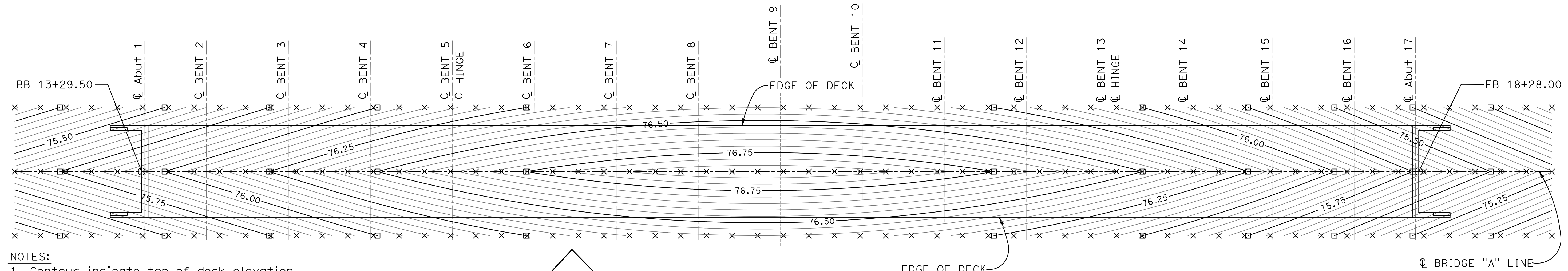
REGISTERED PROFESSIONAL ENGINEER
 GARY M. GORDON
 No. 42176
 Exp. 03-31-24
 CIVIL
 STATE OF CALIFORNIA

Prepared by:
 WILLDAN ENGINEERING
 2400 WASHINGTON AVENUE, SUITE 101
 REDDING, CALIFORNIA 96001



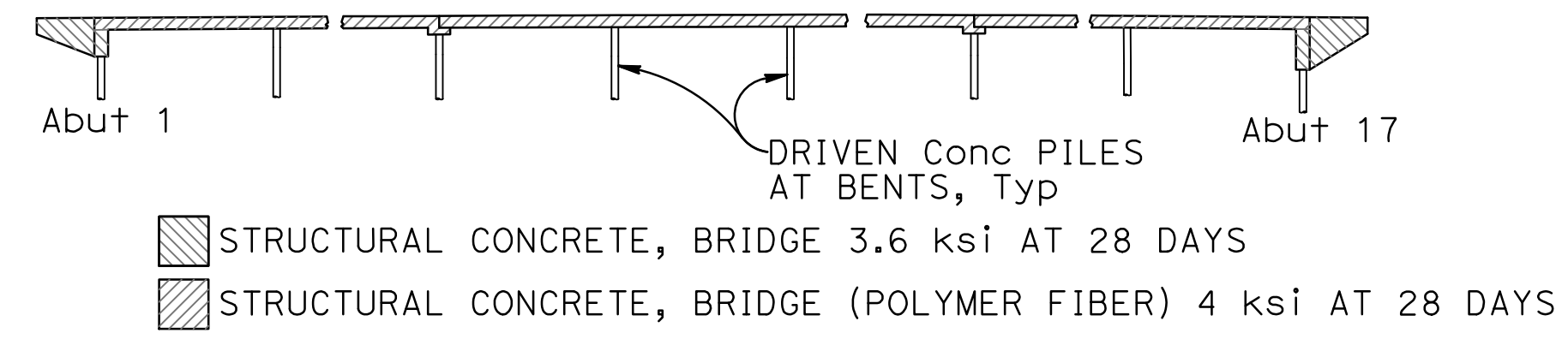
CAMBER DIAGRAM

NO SCALE
 NOTE: DOES NOT INCLUDE ALLOWANCE FOR FALSEWORK SETTLEMENT.



- NOTES:
1. Contour indicate top of deck elevation.
 2. □ Indicates even 0.25 foot contours.
 3. x Indicates 10' intervals measured along "A" Line.
 4. Contour interval = 0.05'
 5. Contours do not include allowances for camber or falsework settlement.

DECK CONTOURS
 SCALE: 1" = 20'-0"



STRUCTURAL CONCRETE, BRIDGE 3.6 ksi AT 28 DAYS
 STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER) 4 ksi AT 28 DAYS

CONCRETE STRENGTH AND TYPE LIMITS

NO SCALE

GENERAL NOTES
LOAD AND RESISTANCE FACTOR DESIGN

DESIGN : AASHTO LRFD Bridge Design Specifications, 6th Edition and with Caltrans Amendments, preface dated September 2010.

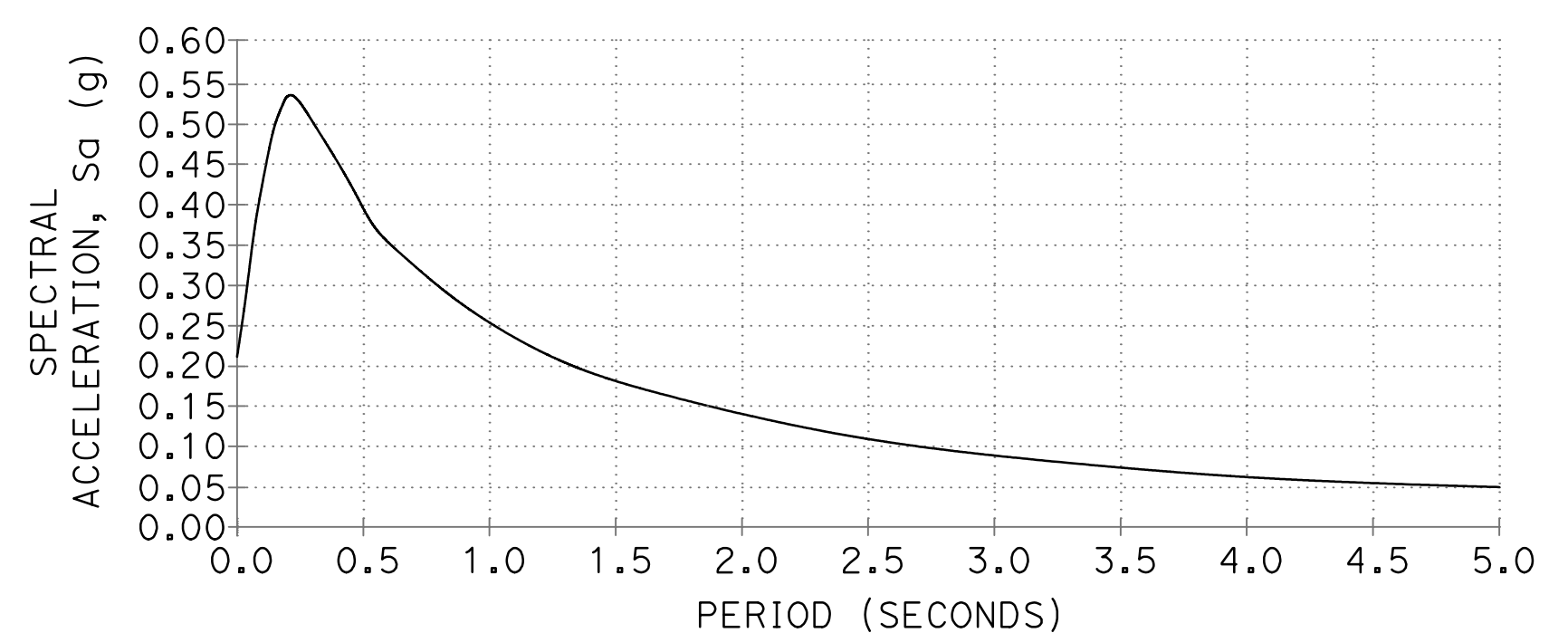
SEISMIC DESIGN: Caltrans Seismic Design Criteria (SDC), Version 1.7 dated April 2013.

DEAD LOAD: Includes 35 psf for future wearing surface.

LIVE LOADING: HL93 and permit design load.

SEISMIC LOADING: Soil Profile: C
 Moment Magnitude: 6.7
 Peak Ground Acceleration = 0.22 g

REINFORCED CONCRETE: $f_y = 60$ ksi
 $f'_c = 4.0$ ksi (Superstructure)
 $f'_c = 3.6$ ksi (Substructure)



ACCELERATION RESPONSE SPECTRUM CURVE

APPROXIMATE QUANTITIES

ITEM CODE	ITEM DESCRIPTION	QUANTITY	UNIT
157550	BRIDGE REMOVAL	1	LS
192020	STRUCTURE EXCAVATION (TYPE D)	80	CY
193003	STRUCTURE BACKFILL (BRIDGE)	53	CY
490736	FURNISH PILING (CLASS 90)	266	LF
490737	DRIVE PILE (CLASS 90)	10	EA
490746	FURNISH PILING (CLASS 140)	3,062	LF
490747	DRIVE PILE (CLASS 140)	75	EA
510053	STRUCTURAL CONCRETE, BRIDGE	62	CY
510054	STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER)	964	CY
519091	JOINT SEAL (MR 1 1/2")	72	LF
520102	BAR REINFORCING STEEL (BRIDGE)	222,000	Lbs
048290	CALIFORNIA ST-75 BRIDGE RAIL	1,046	LF

DESIGN	BY J. DeMARTINI	CHECKED M. ILEY
DETAILS	BY R. UHLMANN	CHECKED J. DeMARTINI
QUANTITIES	BY J. DeMARTINI	CHECKED R. UHLMANN

PREPARED FOR
COUNTY OF GLENN
 PUBLIC WORKS AGENCY

G. GORDON
 PROJECT ENGINEER

BRIDGE NO. 11C0015
 POST MILES NA
BRANCH HOWARD SLOUGH BRIDGE (REPLACE)
DECK CONTOURS

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



REVISION DATES	SHEET	OF
11/10/14 07/28/17 05/31/23	2	17

FILE => 11-0015-d-dc01

DATE PLOTTED => 5/31/2023
 USERNAME => KEVIN
 TIME PLOTTED => 10:27:59 AM


LEGEND

- DENOTES EXISTING STRUCTURE
- DENOTES PROPOSED STRUCTURE
- DENOTES CLASS 140 PILES
- 67.40 DENOTES BOTTOM OF FOOTING ELEVATION

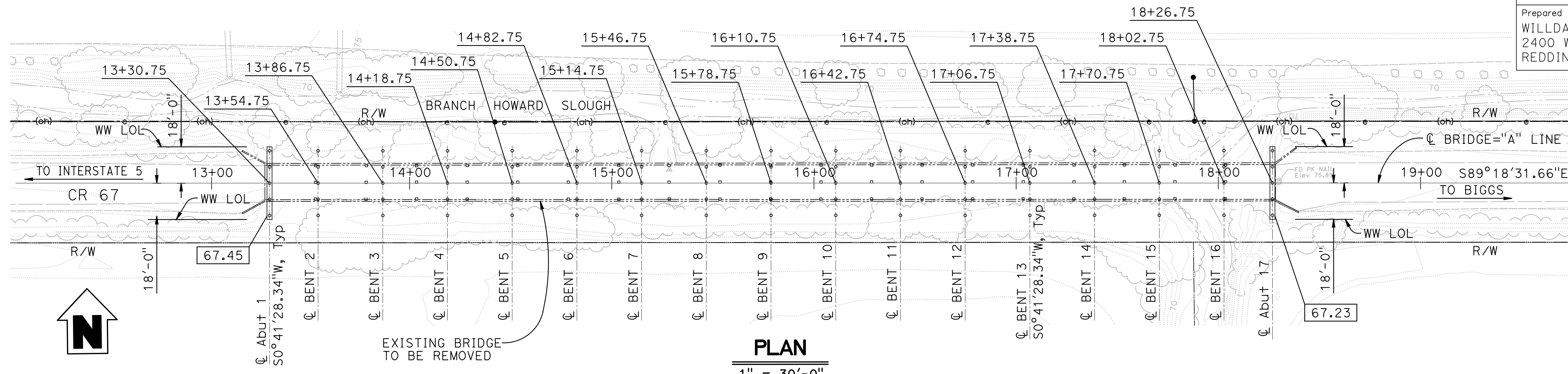
NOTES

1. Utility relocation not shown. Utilities in conflict with piles will be relocated for bridge construction.
2. For pile number locations, see "ABUTMENT LAYOUT" and "BENT LAYOUT" sheets.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Glenn	CR 67	NA	21	35


 REGISTERED CIVIL ENGINEER
 DATE 05-31-23
 May 31, 2023
 PLANS APPROVAL DATE

Prepared by:
 WILLDAN ENGINEERING
 2400 WASHINGTON AVENUE, SUITE 101
 REDDING, CALIFORNIA 96001



PLAN
1" = 30'-0"

PILE DATA TABLE

LOCATION	PILE TYPE	DESIGN LOADING (SERVICE)	NOMINAL RESISTANCE		DESIGN TIP ELEV* (FEET)	SPECIFIED TIP ELEV (FEET)	PC/PS CONCRETE PILE CUT OFF ELEVATION (FEET)				
			COMPRESSION	TENSION			PILE No. 1	PILE No. 2	PILE No. 3	PILE No. 4	PILE No. 5
Abut 1	CLASS 90	90 kips	180 kips	90	41.00 (1)	41.00	67.70	67.70	67.70	67.70	67.70
BENT 2	CLASS 140	140 kips	280 kips	140	34.00 (1)	34.00	74.49	74.63	74.77	74.63	74.49
BENT 3	CLASS 140	140 kips	280 kips	140	34.00 (1)	34.00	74.68	74.82	74.96	74.82	74.68
BENT 4	CLASS 140	140 kips	280 kips	140	34.00 (1)	34.00	74.87	75.01	75.15	75.01	74.87
BENT 5	CLASS 140	140 kips	280 kips	140	34.00 (1)	34.00	73.28	73.42	73.56	73.42	73.28
BENT 6	CLASS 140	140 kips	280 kips	140	34.00 (1)	34.00	75.15	75.29	75.43	75.29	75.15
BENT 7	CLASS 140	140 kips	280 kips	140	34.00 (1)	34.00	75.23	75.37	75.51	75.37	75.23
BENT 8	CLASS 140	140 kips	280 kips	140	34.00 (1)	34.00	75.28	75.42	75.56	75.42	75.28
BENT 9	CLASS 140	140 kips	280 kips	140	34.00 (1)	34.00	75.29	75.43	75.57	75.43	75.29
BENT 10	CLASS 140	140 kips	280 kips	140	34.00 (1)	34.00	75.26	75.40	75.54	75.40	75.26
BENT 11	CLASS 140	140 kips	280 kips	140	34.00 (1)	34.00	75.19	75.33	75.47	75.33	75.19
BENT 12	CLASS 140	140 kips	280 kips	140	34.00 (1)	34.00	75.09	75.23	75.37	75.23	75.09
BENT 13	CLASS 140	140 kips	280 kips	140	34.00 (1)	34.00	73.21	73.35	73.49	73.35	73.21
BENT 14	CLASS 140	140 kips	280 kips	140	34.00 (1)	34.00	74.78	74.92	75.06	74.92	74.78
BENT 15	CLASS 140	140 kips	280 kips	140	34.00 (1)	34.00	74.57	74.71	74.85	74.71	74.57
BENT 16	CLASS 140	140 kips	280 kips	140	34.00 (1)	34.00	74.32	74.46	74.60	74.46	74.32
Abut 17	CLASS 90	90 kips	180 kips	90	41.00 (1)	41.00	67.48	67.48	67.48	67.48	67.48

* DESIGN TIP ELEVATION IS CONTROLLED BY THE FOLLOWING DEMANDS:
 (1) COMPRESSION, (2) TENSION, (3) LATERAL LOADS, (4) SETTLEMENT

HYDROLOGIC SUMMARY

DRAINAGE AREA 22.2 SQ MI

	DESIGN FLOOD	BASE FLOOD	OVERTOPPING FLOOD	RECORD FLOOD
FREQUENCY, YEARS	50	100	X	X
DISCHARGE CUBIC ft/sec.	x	1,594	X	X
WATER SURFACE ELEVATION AT BRIDGE	x	73.35	X	X

NOTE:
 Flood Plain Data is based upon information available when the plans were prepared and are shown to meet Federal requirements. The accuracy of said information is not warranted by the Designer and interested or affected parties should make their own investigation.

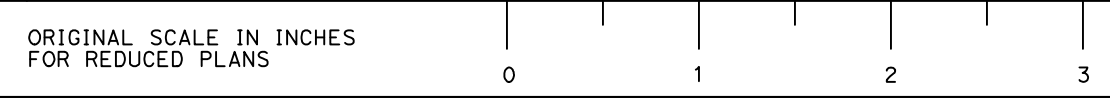
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SURVEYED BY S. ESPINOSA	DRAFTED BY J. JONES	
FIELD CHECKED BY B. STRATMAN	CHECKED BY P. ESPINOSA	

DESIGN BY J. DeMARTINI	CHECKED M. ILEY
DETAILS BY R. UHLMANN	CHECKED J. DeMARTINI
QUANTITIES BY J. DeMARTINI	CHECKED R. UHLMANN

PREPARED FOR
COUNTY OF GLENN
 PUBLIC WORKS AGENCY

G. GORDON
 PROJECT ENGINEER

BRIDGE NO. 11C0015	BRANCH HOWARD SLOUGH BRIDGE (REPLACE)
POST MILES NA	
FOUNDATION PLAN	



DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 3	OF 17
	11/10/14 01/28/17 05/31/23		

DATE PLOTTED => 5/31/2023 AM USERNAME => KEVIN

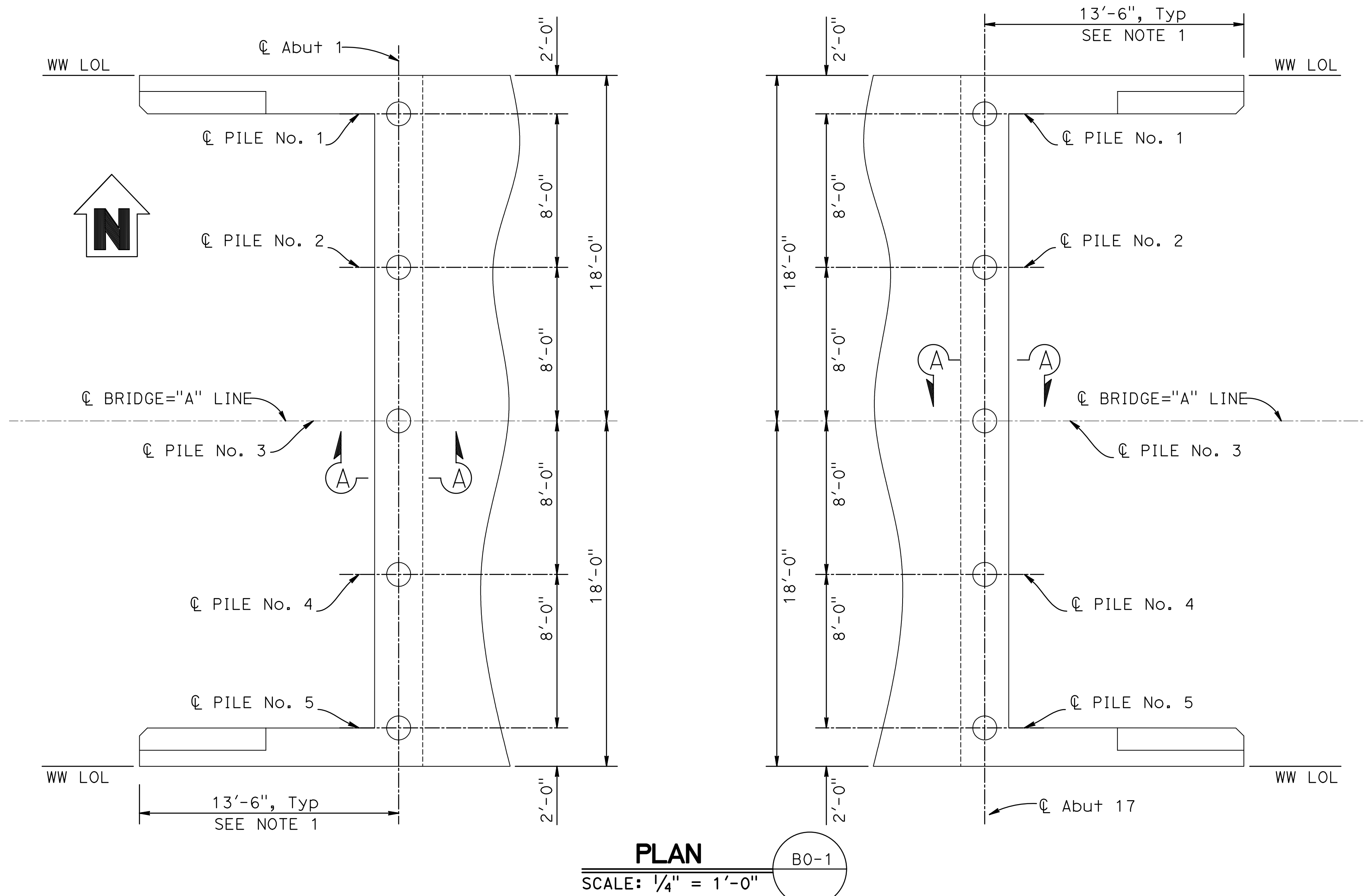
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Glenn	CR 67	NA	22	35

NOTES:
 1. For 'TYPICAL WINGWALL ELEVATION', see Caltrans Standard Plan B0-1.

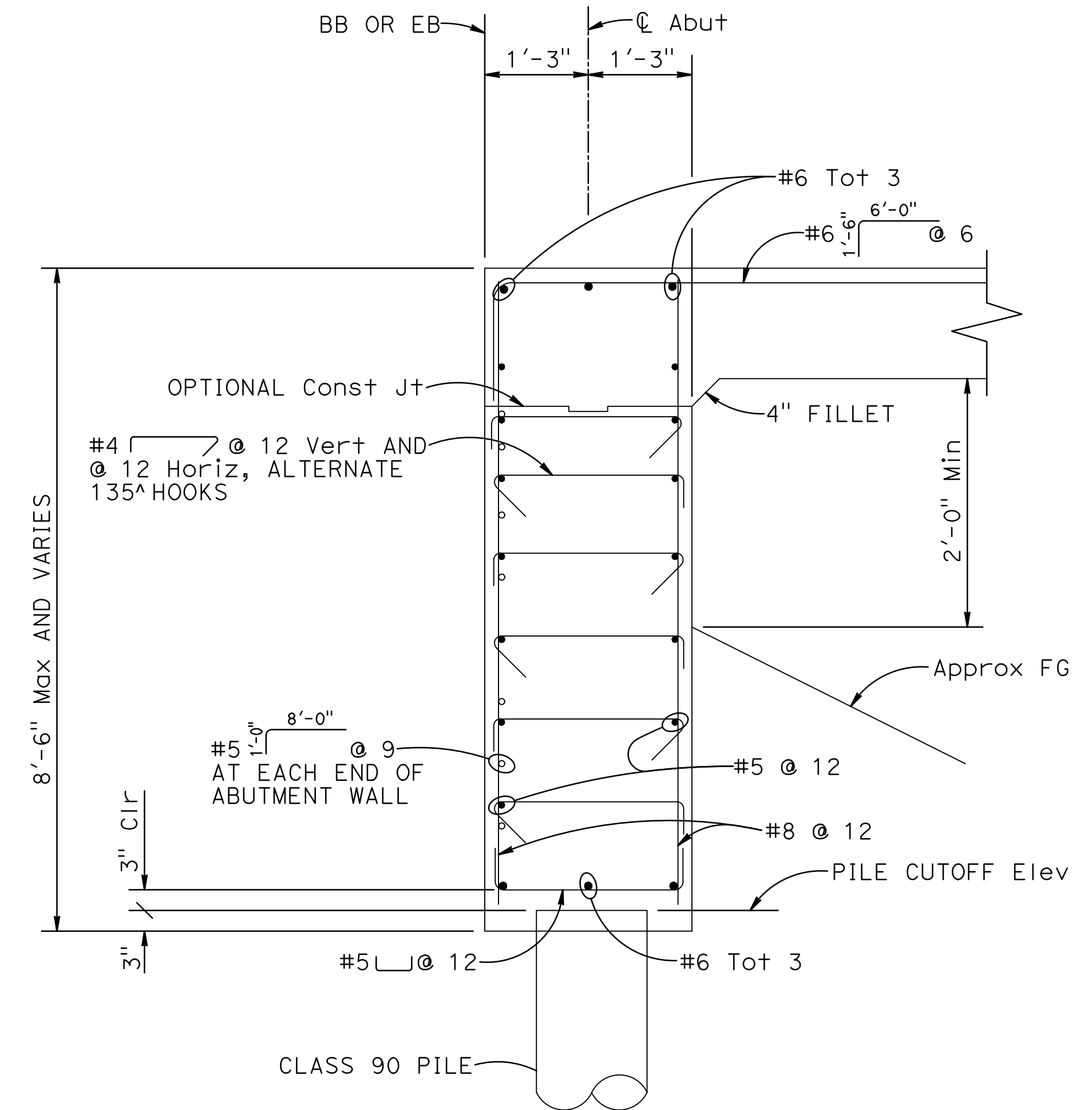
REGISTERED CIVIL ENGINEER DATE 05-31-23
 May 31, 2023
 PLANS APPROVAL DATE

GARY M. GORDON
 No. 42176
 Exp. 03-31-24
 CIVIL
 STATE OF CALIFORNIA

Prepared by:
 WILLDAN ENGINEERING
 2400 WASHINGTON AVENUE, SUITE 101
 REDDING, CALIFORNIA 96001



PLAN
 SCALE: 1/4" = 1'-0"
 B0-1



SECTION A-A
 SCALE: 3/4" = 1'-0"

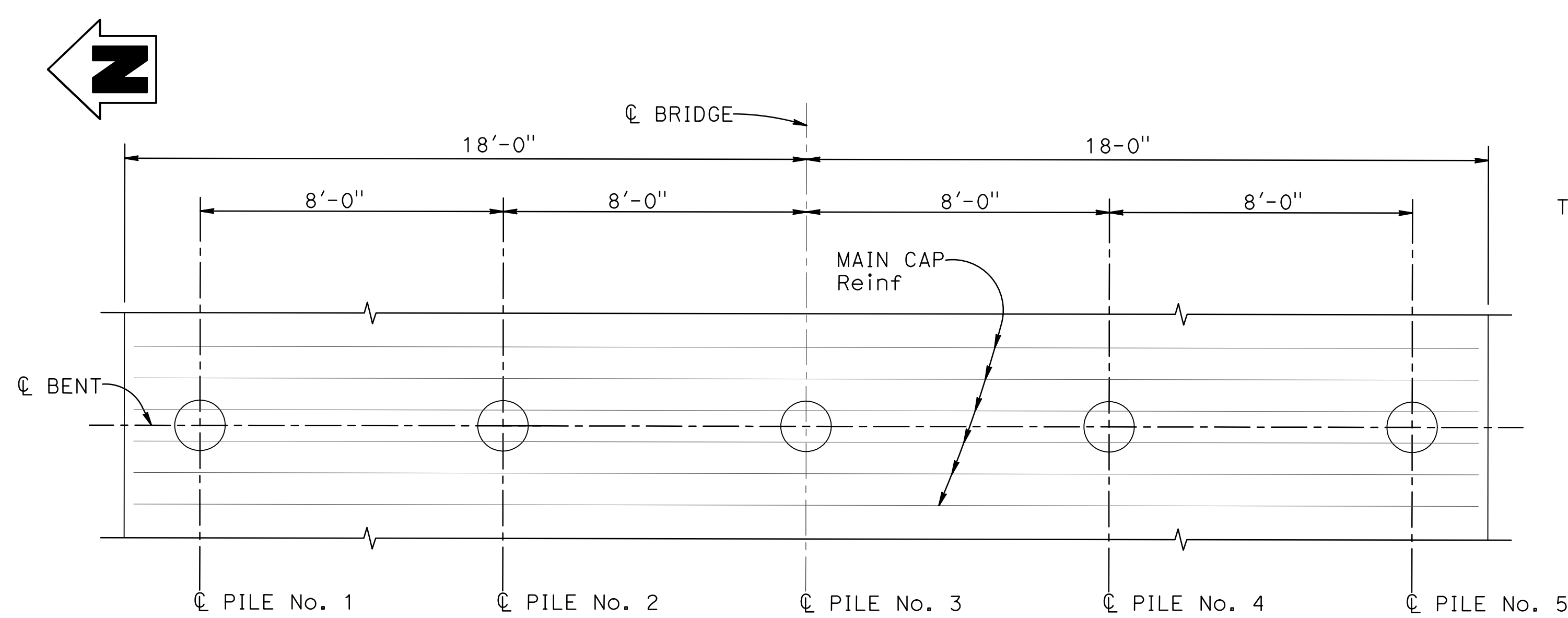
DESIGN	BY	J. DeMARTINI	CHECKED	M. ILEY	PREPARED FOR COUNTY OF GLENN PUBLIC WORKS AGENCY	BRIDGE NO. 11C0015	BRANCH HOWARD SLOUGH BRIDGE (REPLACE)											
	DETAILS	BY	R. UHLMANN	CHECKED				J. DeMARTINI	POST MILES NA	ABUTMENT LAYOUT								
	QUANTITIES	BY	J. DeMARTINI	CHECKED				R. UHLMANN										
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS						0	1	2	3	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	11/18/14	01/28/17	05/31/23	SHEET	4	OF	17

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Glenn	CR 67	NA	23	35

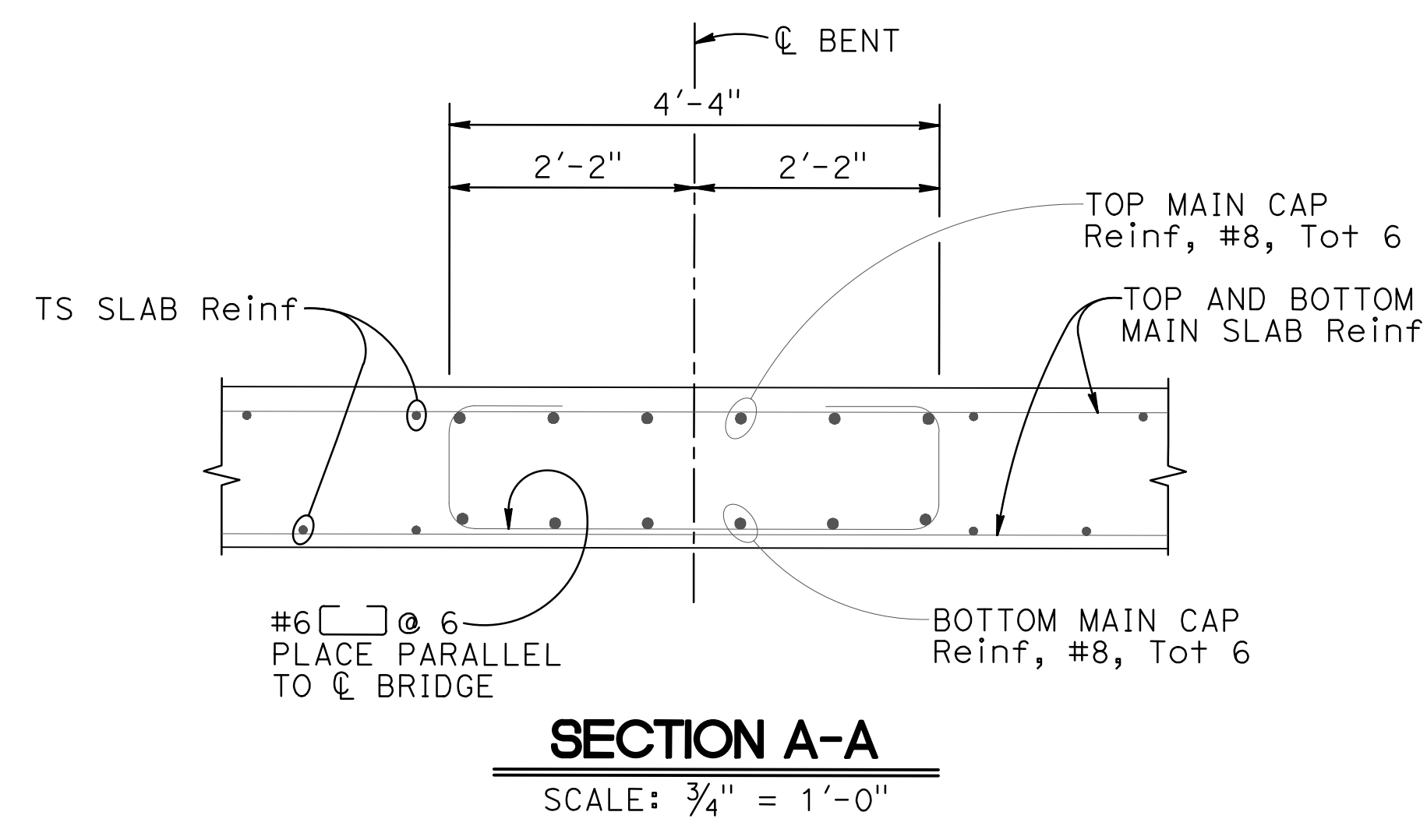
REGISTERED CIVIL ENGINEER
 GARY M. GORDON
 No. 42176
 Exp. 03-31-24
 CIVIL
 STATE OF CALIFORNIA

05-31-23 DATE
 May 31, 2023
 PLANS APPROVAL DATE

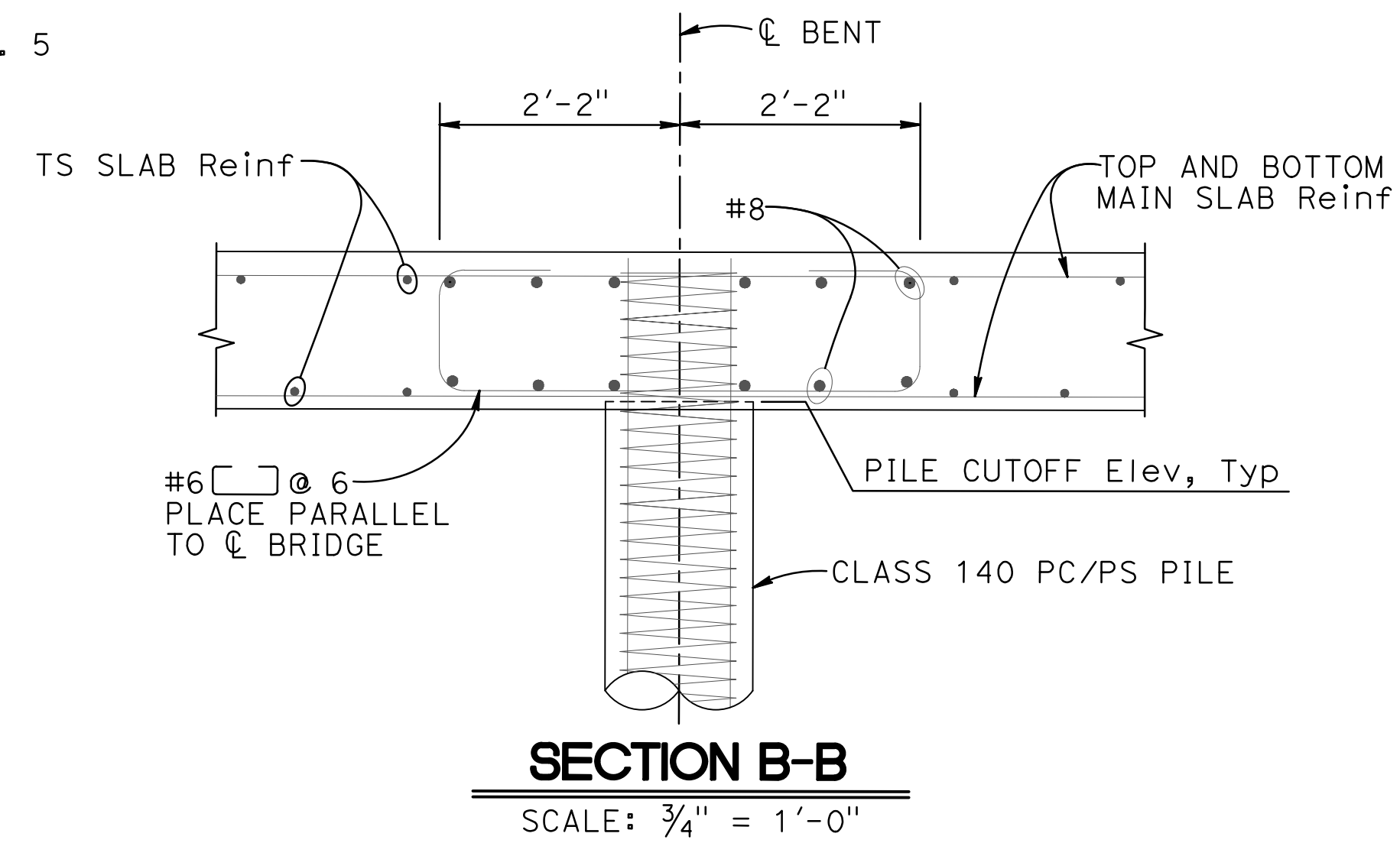
Prepared by:
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 2400 WASHINGTON AVENUE, SUITE 101
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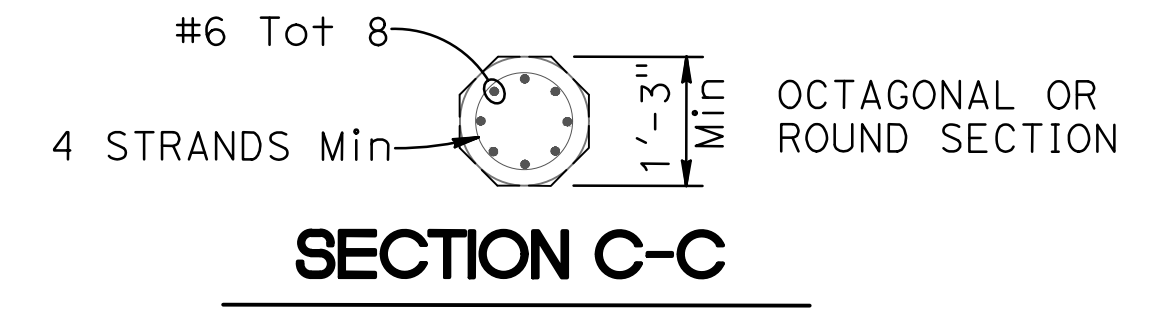
PLAN
 SCALE: 3/8" = 1'-0"



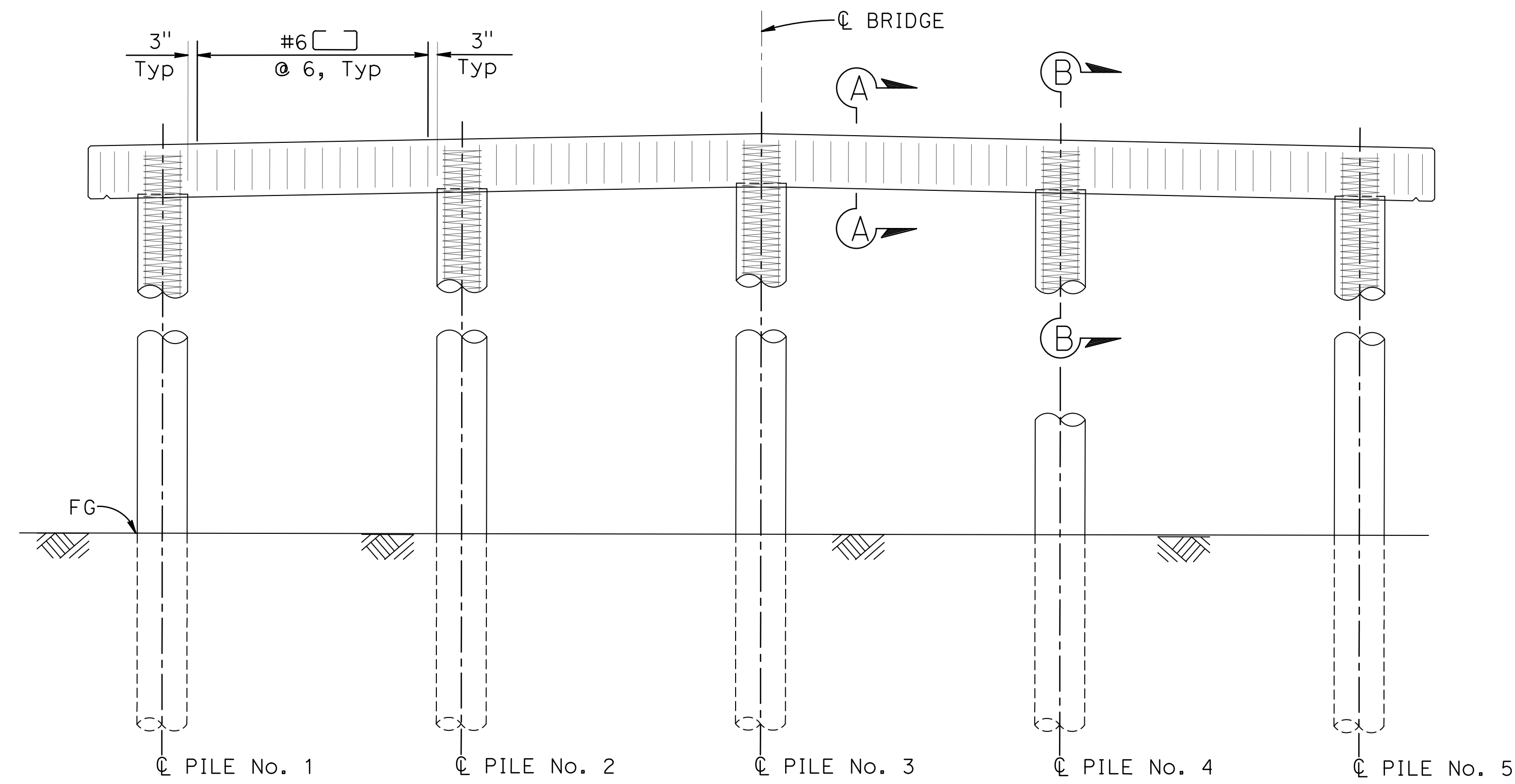
SECTION A-A
 SCALE: 3/4" = 1'-0"



SECTION B-B
 SCALE: 3/4" = 1'-0"

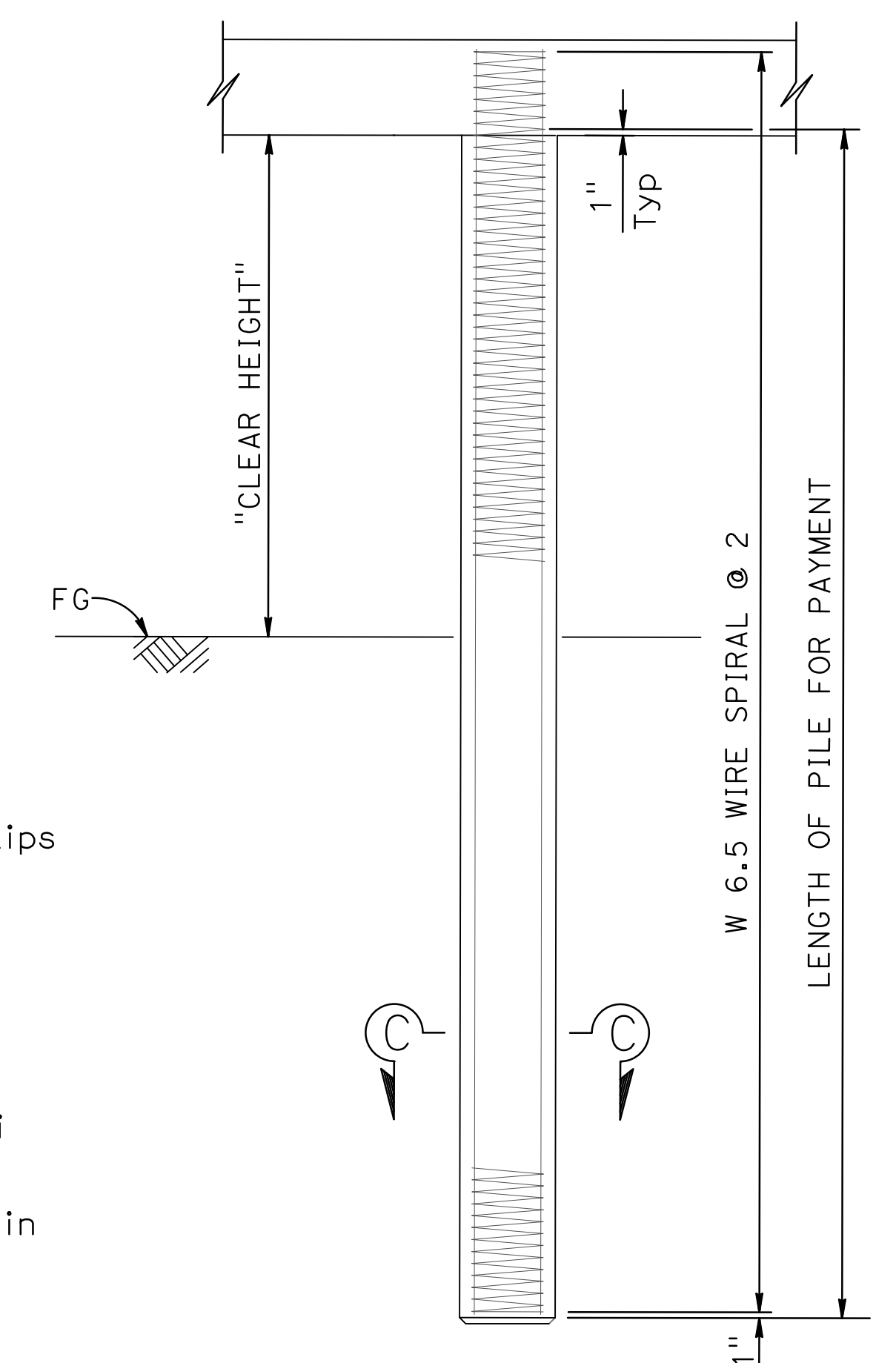


SECTION C-C



ELEVATION
 SCALE: 3/8" = 1'-0"

- NOTES:**
- Design service level loading is 140 kips service and 280 kips nominal axial structural resistance or less as noted.
 - Maximum size of aggregate is 1".
 - For the prestressed concrete pile:
 - The prestress force after all losses shall provide 700 psi minimum stress.
 - The concrete strength shall not be less than 6000 psi at 28 days.
 - No splices allowed in the longitudinal reinforcement within the "CLEAR HEIGHT" or within 10' below the ground line.



PRECAST PRESTRESSED CONCRETE PILE

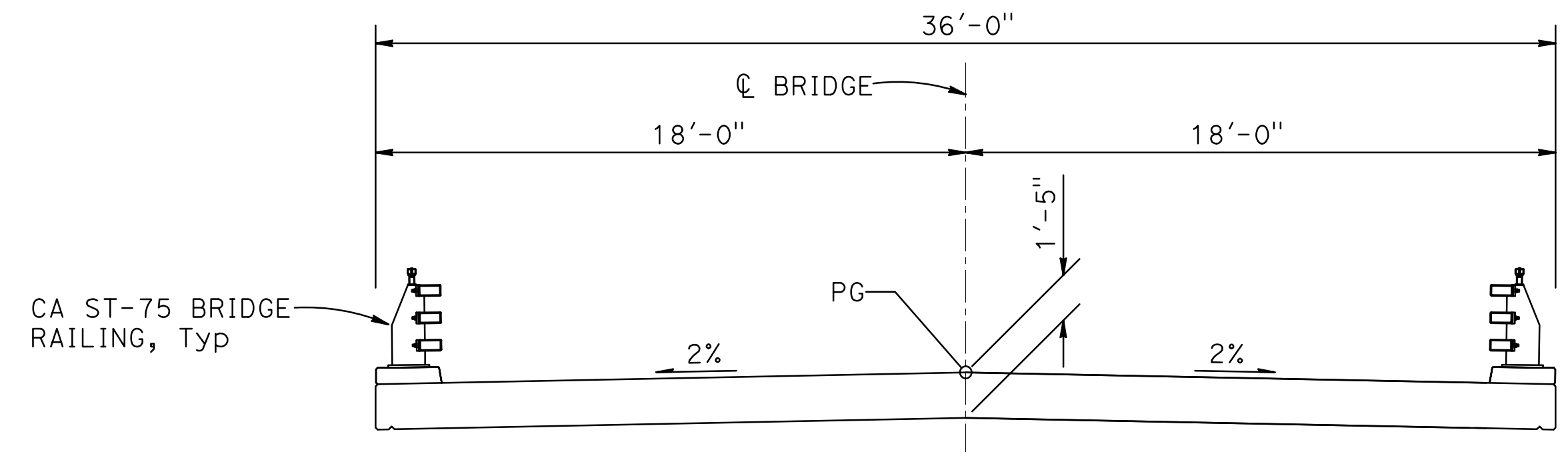
DESIGN	BY J. DeMARTINI	CHECKED M. ILEY	PREPARED FOR COUNTY OF GLENN PUBLIC WORKS AGENCY	G. GORDON PROJECT ENGINEER	BRIDGE NO.	BRANCH HOWARD SLOUGH BRIDGE (REPLACE)
DETAILS	BY R. UHLMANN	CHECKED J. DeMARTINI			11C0015	
QUANTITIES	BY J. DeMARTINI	CHECKED R. UHLMANN			POST MILES	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	REVISION DATES	SHEET 5 OF 17
				FILE => 11-0015-h-b01_101	11/28/14 07/28/17 05/31/23	

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 DATE PLOTTED => 5/31/2023
 USERNAME => KEVIN

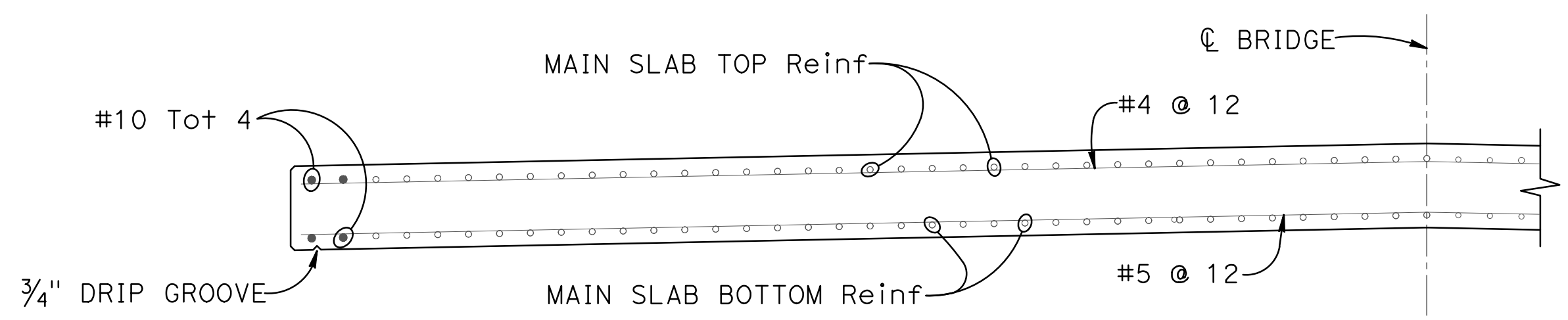
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Glenn	CR 67	NA	24	35

REGISTERED CIVIL ENGINEER
 DATE 05-31-23
 GARY M. GORDON
 No. 42176
 Exp. 03-31-24
 CIVIL
 STATE OF CALIFORNIA

Prepared by:
 WILLDAN ENGINEERING
 2400 WASHINGTON AVENUE, SUITE 101
 REDDING, CALIFORNIA 96001

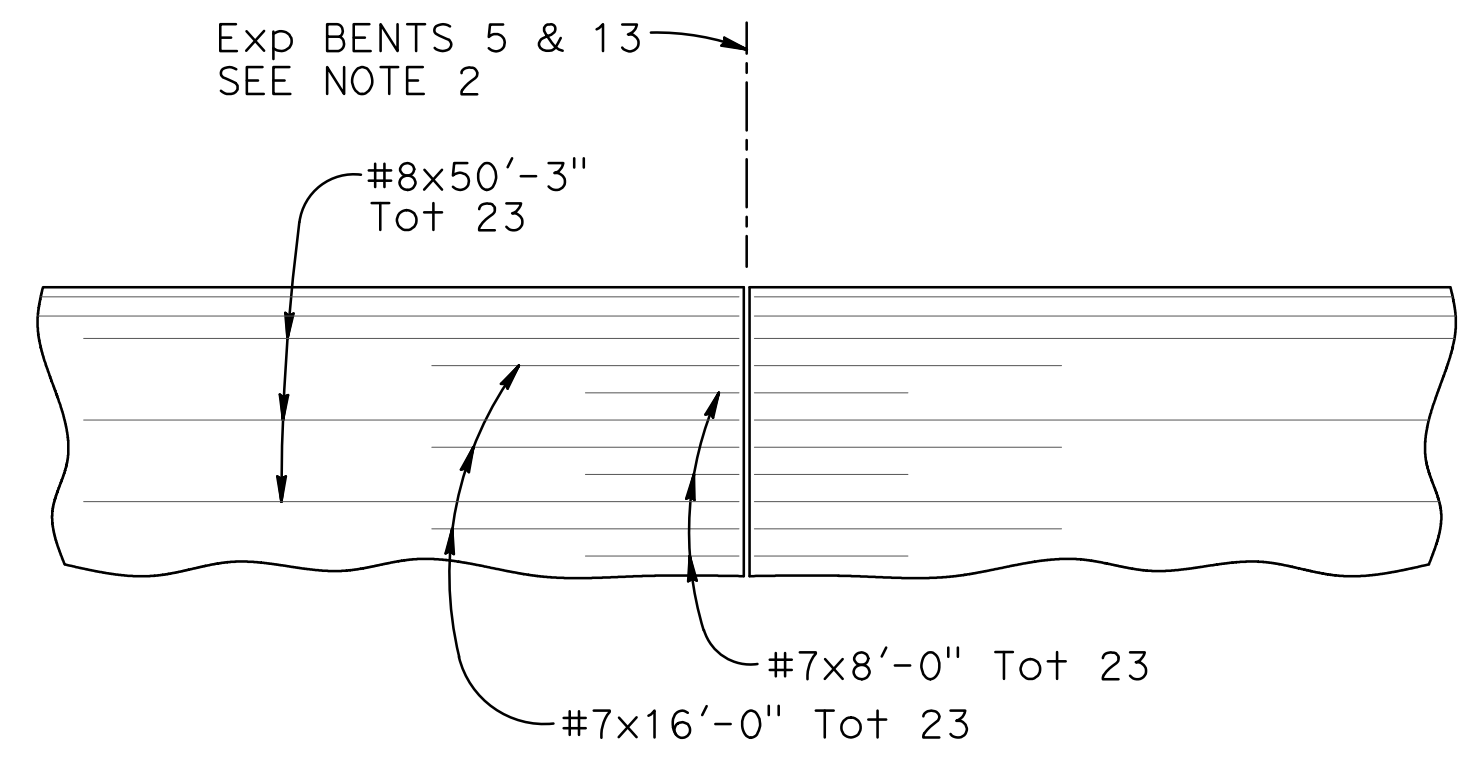
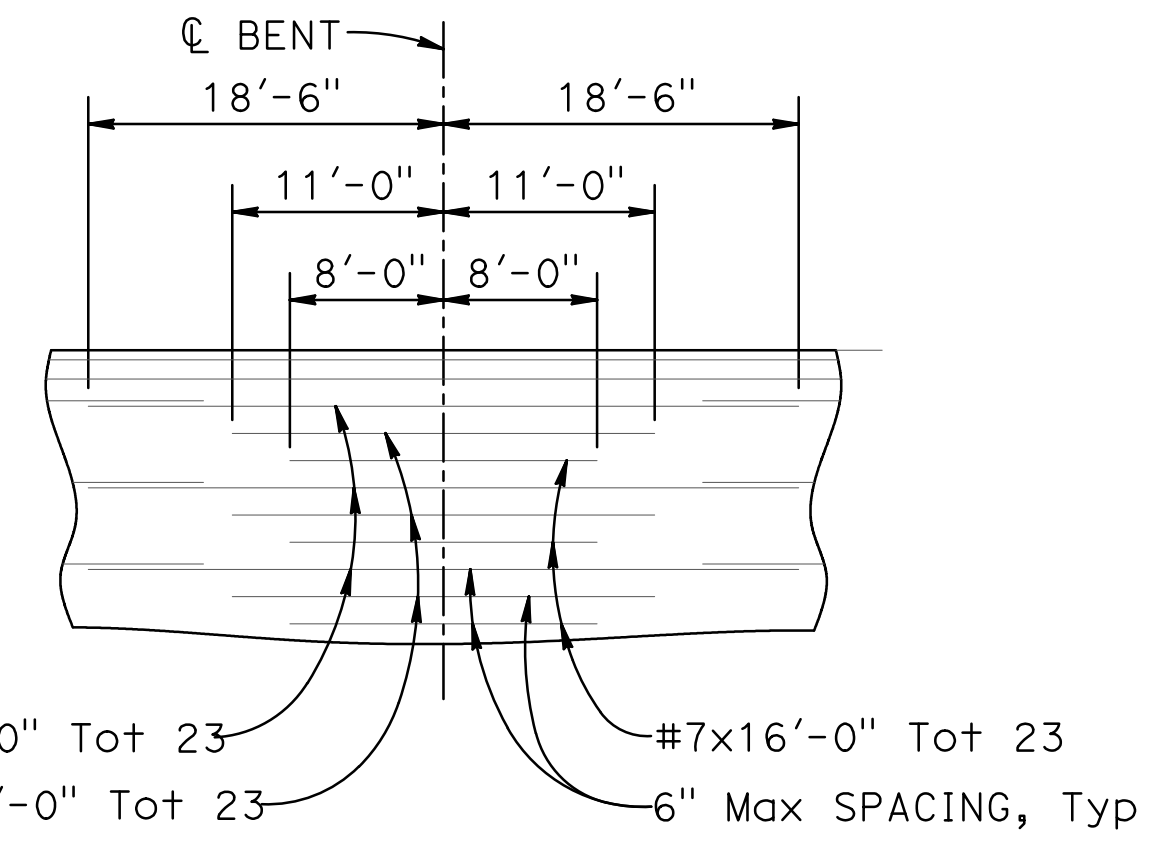
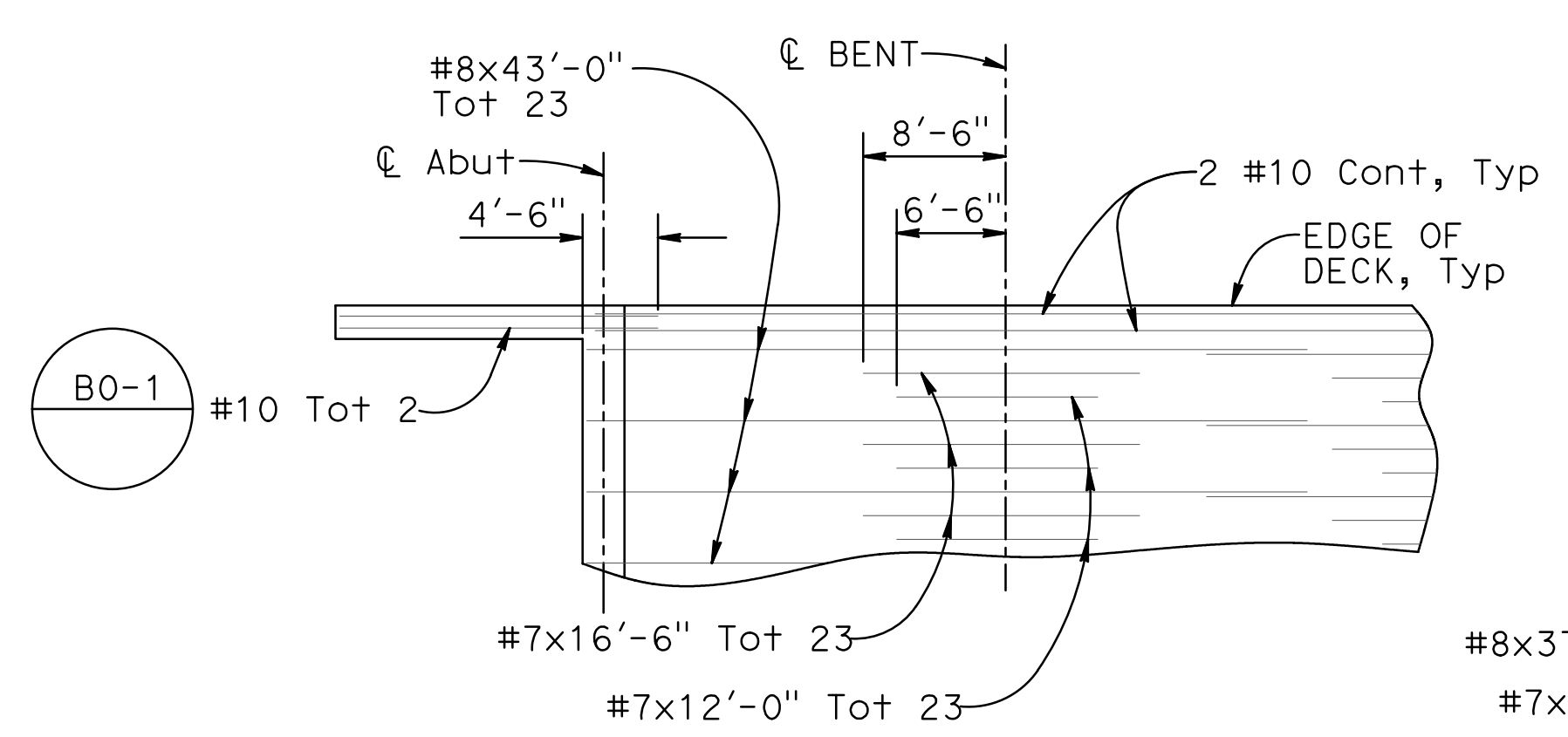


TYPICAL SECTION
SCALE: 1/4" = 1'-0"

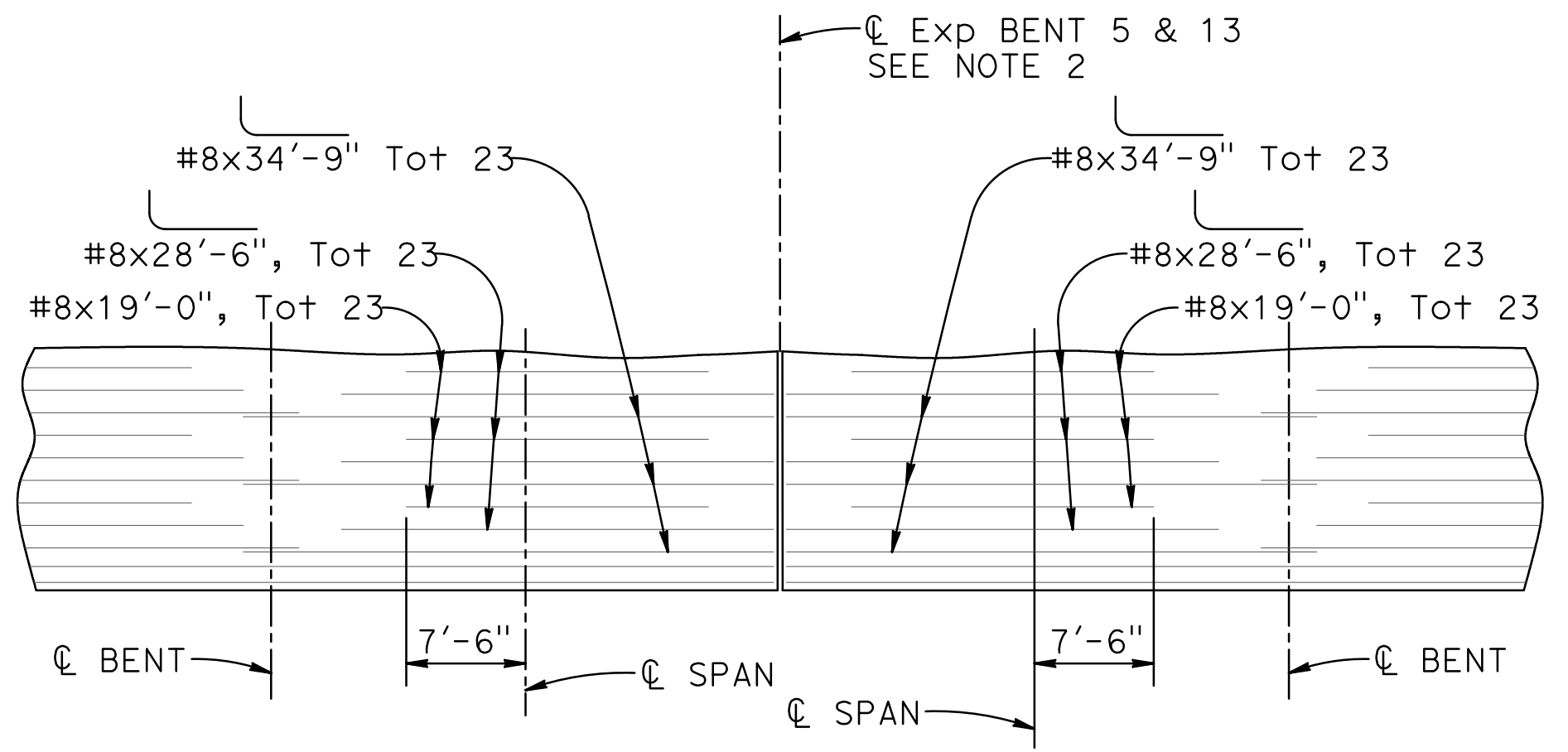
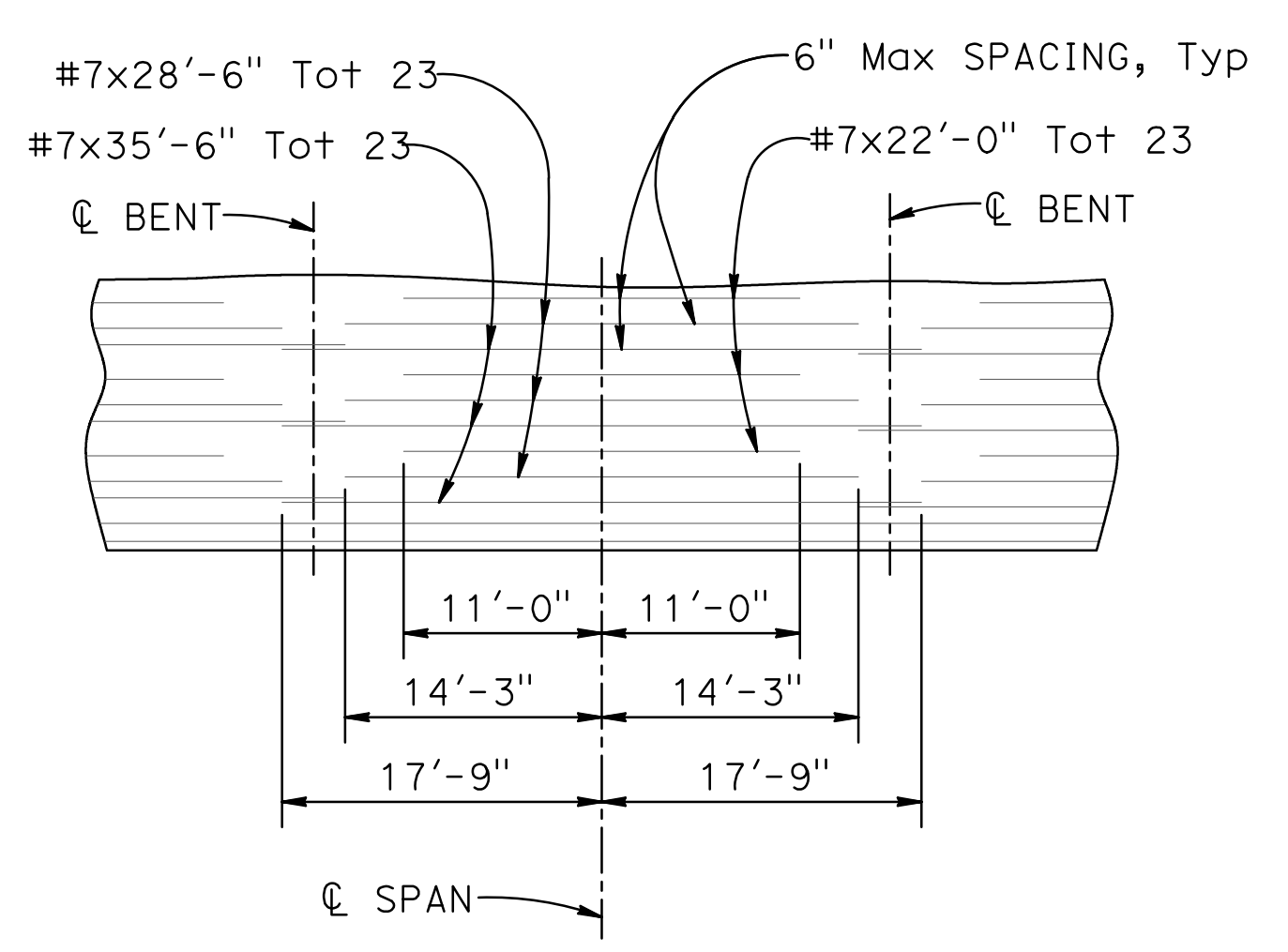
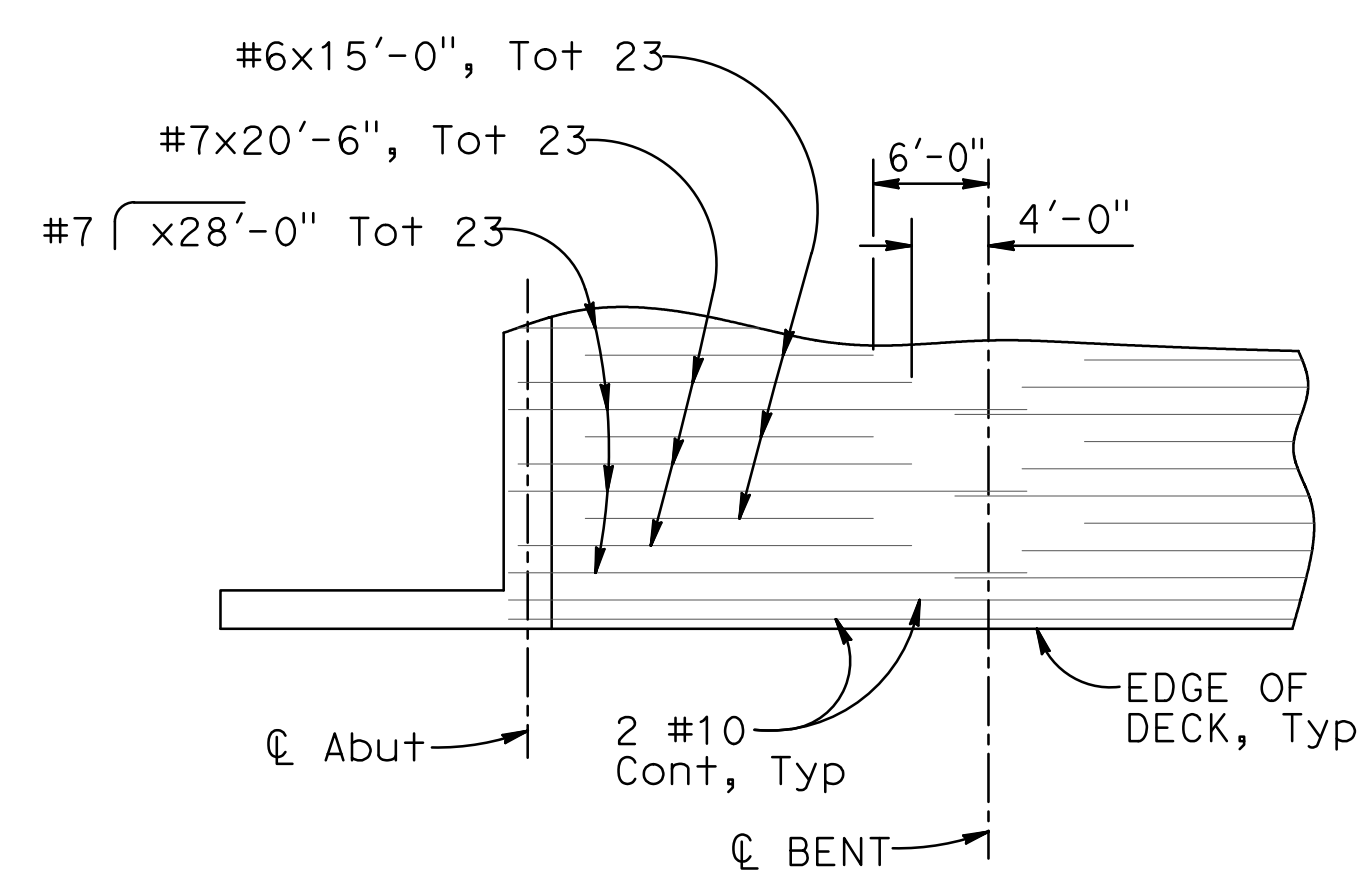


PART TYPICAL SECTION
SCALE: 1/2" = 1'-0"
NOTE: BAR CHAIRS NOT SHOWN.

- NOTES:**
- FOR SLAB REINFORCING DETAILS NOT SHOWN SEE "SLAB REINFORCEMENT DETAILS NO. 2" SHEET.
 - SEE "SLAB HINGE DETAILS" SHEET FOR MAIN BAR REINFORCING BENDING AND HINGE REINFORCING DETAILS.



REINFORCEMENT - TOP OF SLAB
NOT TO SCALE



REINFORCEMENT - BOTTOM OF SLAB
NOT TO SCALE

DESIGN	BY J. DeMARTINI	CHECKED M. ILEY
DETAILS	BY R. UHLMANN	CHECKED J. DeMARTINI
QUANTITIES	BY J. DeMARTINI	CHECKED R. UHLMANN

PREPARED FOR
COUNTY OF GLENN
 PUBLIC WORKS AGENCY

G. GORDON
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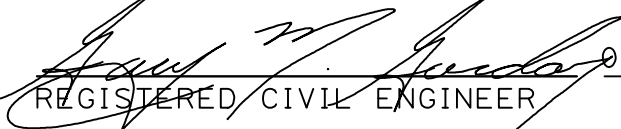
BRIDGE NO. 11C0015
BRANCH HOWARD SLOUGH BRIDGE (REPLACE)
SLAB REINFORCEMENT DETAILS NO. 1


ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



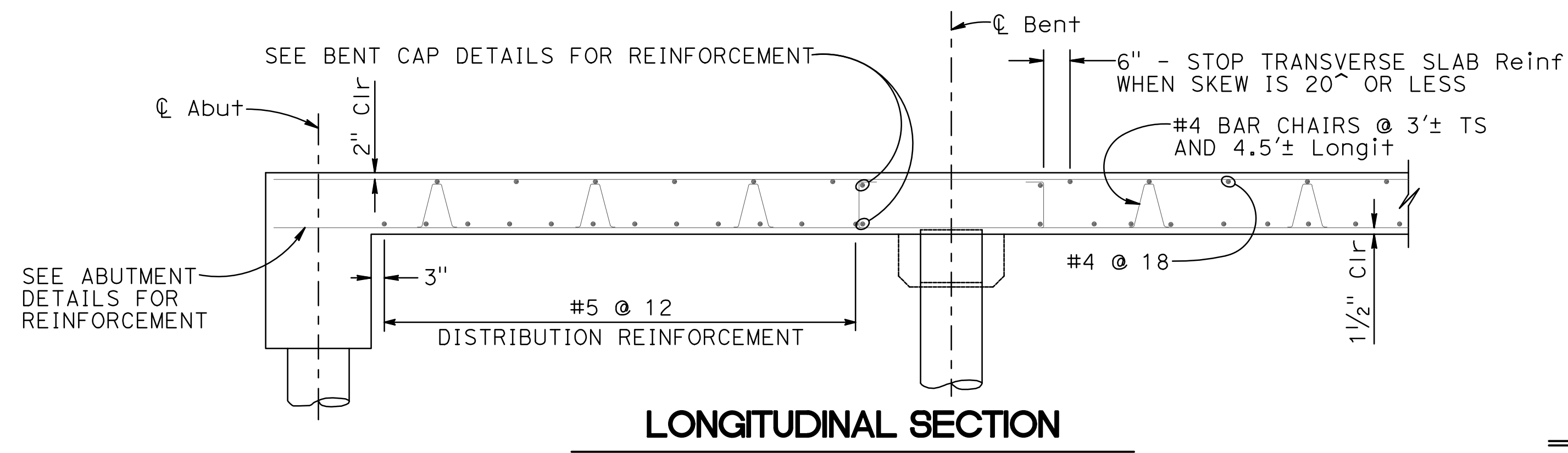
REVISION DATES	SHEET	OF
11/10/14 07/28/17 05/31/23	6	17

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Gle	CR 67	NA	25	35

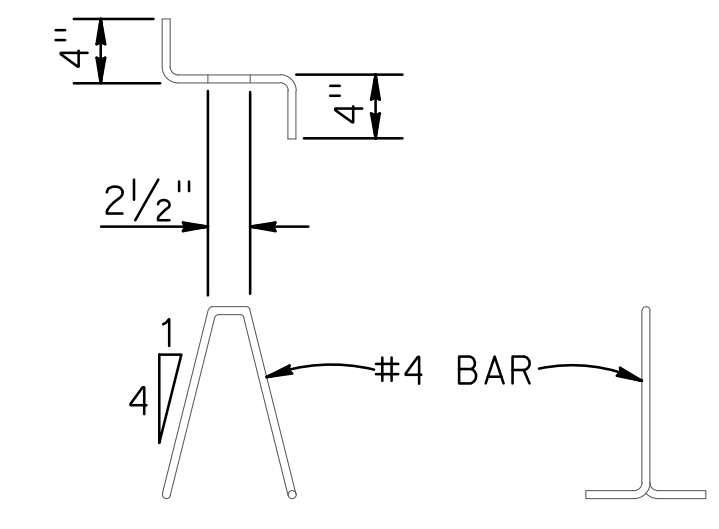

 REGISTERED CIVIL ENGINEER DATE 05-31-23
 May 31, 2023
 PLANS APPROVAL DATE



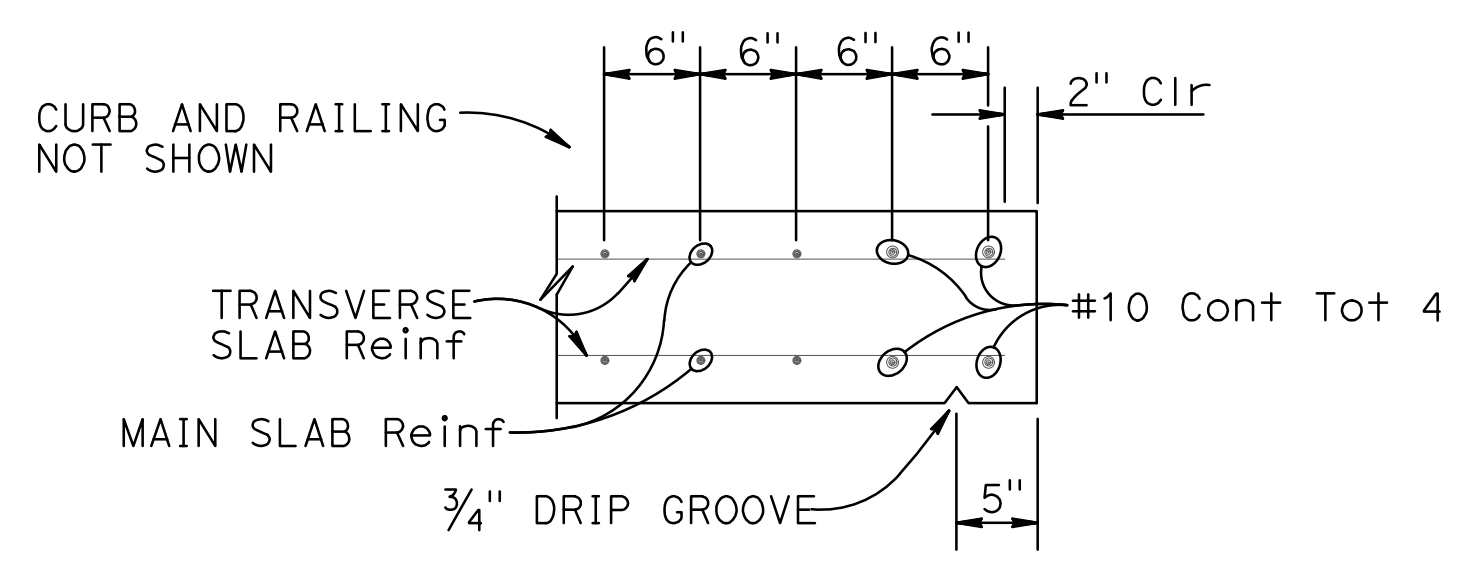
Prepared by:
 WILLDAN ENGINEERING
 2400 WASHINGTON AVENUE, SUITE 101
 REDDING, CALIFORNIA 96001



LONGITUDINAL SECTION



BAR CHAIR DETAIL



EDGE OF SLAB DETAILS

BAR SPLICE LENGTH								
BAR SIZE	#4	#5	#6	#7	#8	#9	#10	#11
ALL BARS, EXCEPT TOP BARS IN SPANS OVER 24'	23"	28"	34"	43"	56"	71"	90"	110"
TOP BARS IN SPANS OVER 24'	23"	28"	34"	58"	74"	80"	115"	155"

REINFORCEMENT NOTES:
 Splices in top main bars to be located near center of span.
 Splices in bottom main bars to be located near bent.
 Spacing of all transverse bars is measured along Cl roadway.

DESIGN	BY J. DeMARTINI	CHECKED M. ILEY
DETAILS	BY R. UHLMANN	CHECKED J. DeMARTINI
QUANTITIES	BY J. DeMARTINI	CHECKED R. UHLMANN

PREPARED FOR
COUNTY OF GLENN
 PUBLIC WORKS AGENCY

G. GORDON
 PROJECT ENGINEER

BRIDGE NO.	11C0015	BRANCH HOWARD SLOUGH BRIDGE (REPLACE)
POST MILES	NA	
NA		
		SLAB REINFORCEMENT DETAILS NO. 2

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



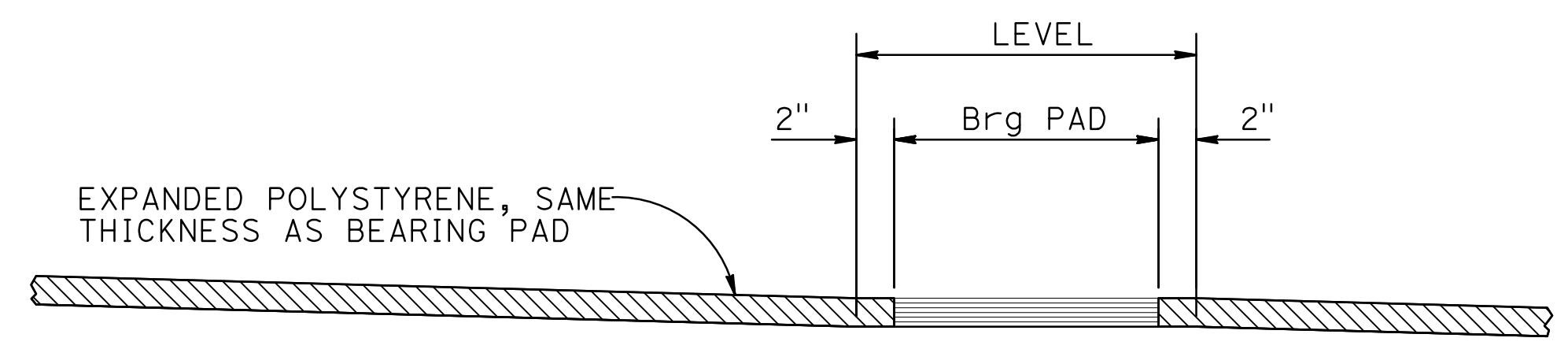
DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET	OF
	11/10/14 07/28/17 05/31/23	7	17

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Glenn	CR 67	NA	26	35

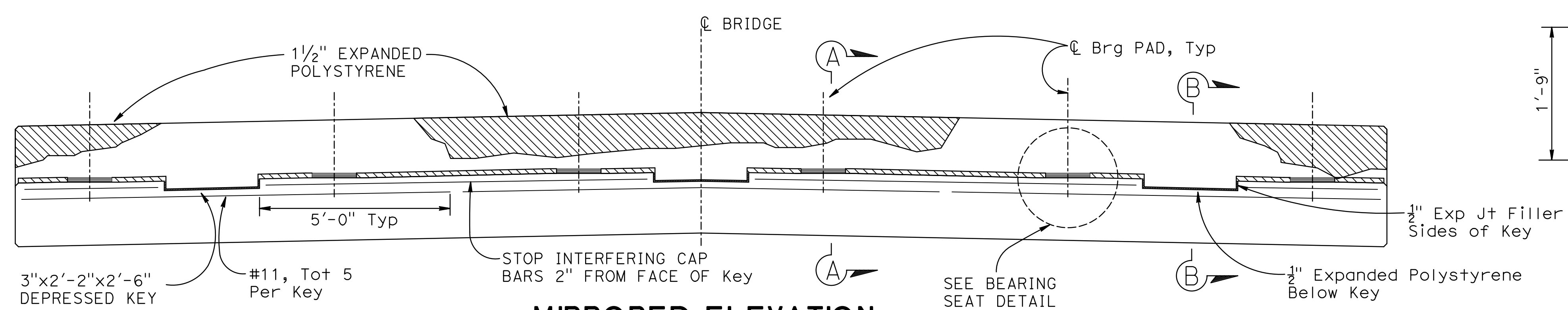
REGISTERED CIVIL ENGINEER
 DATE 05-31-23
 May 31, 2023
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 GARY M. GORDON
 No. 42176
 Exp. 03-31-24
 CIVIL
 STATE OF CALIFORNIA

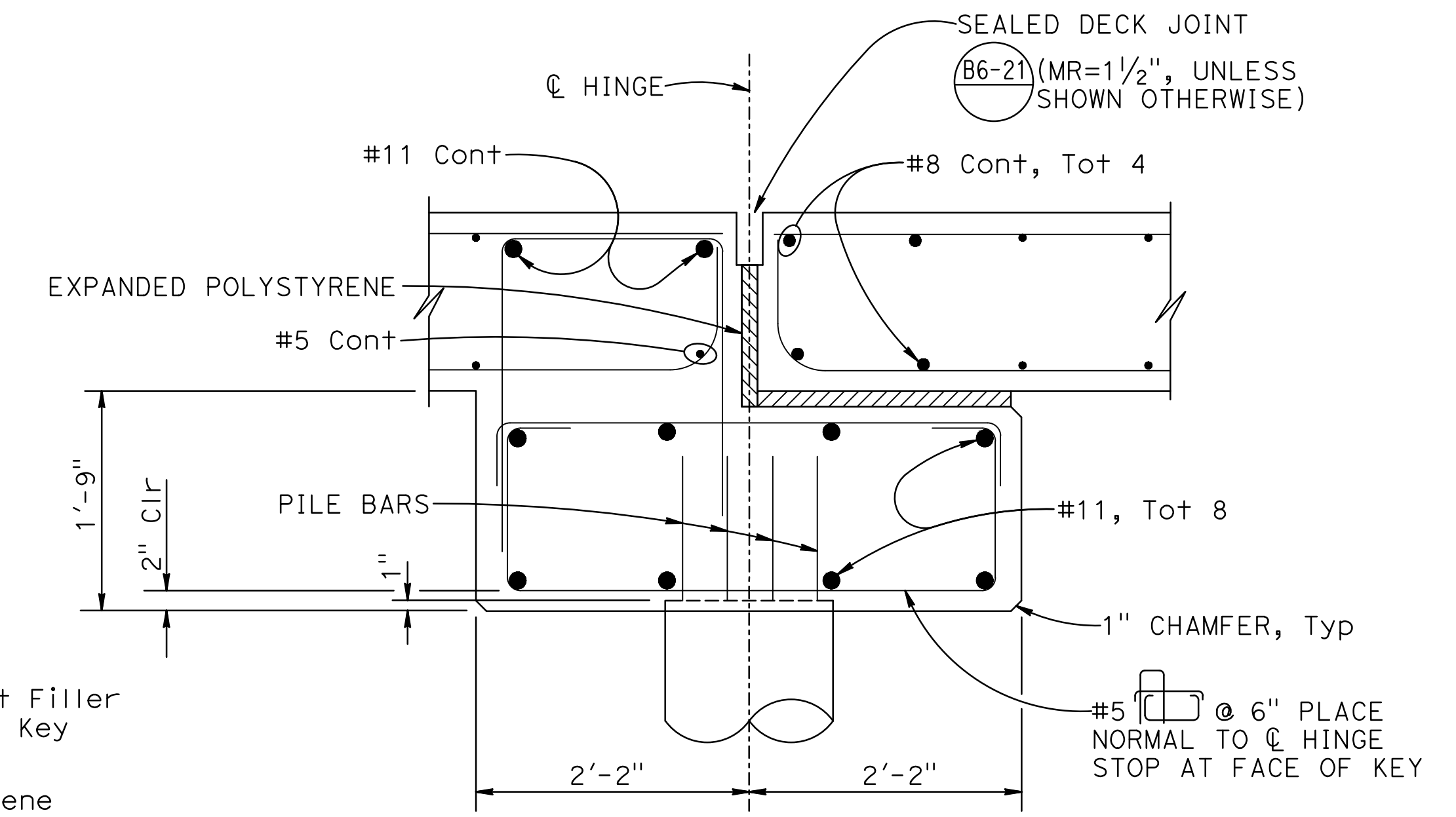
Prepared by:
 WILLDAN ENGINEERING
 2400 WASHINGTON AVENUE, SUITE 101
 REDDING, CALIFORNIA 96001



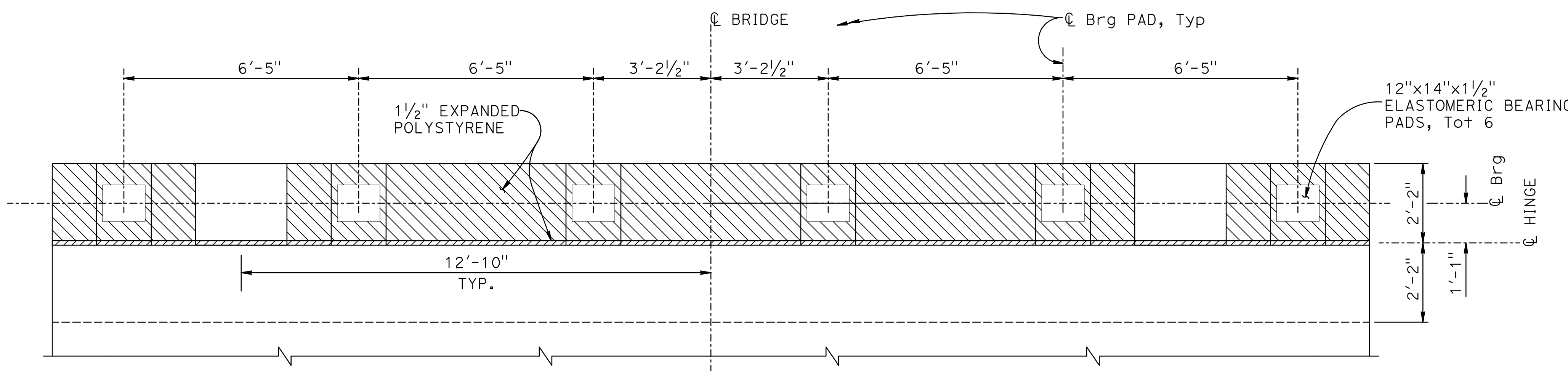
BEARING SEAT DETAIL
SCALE: 1/2" = 1'-0"



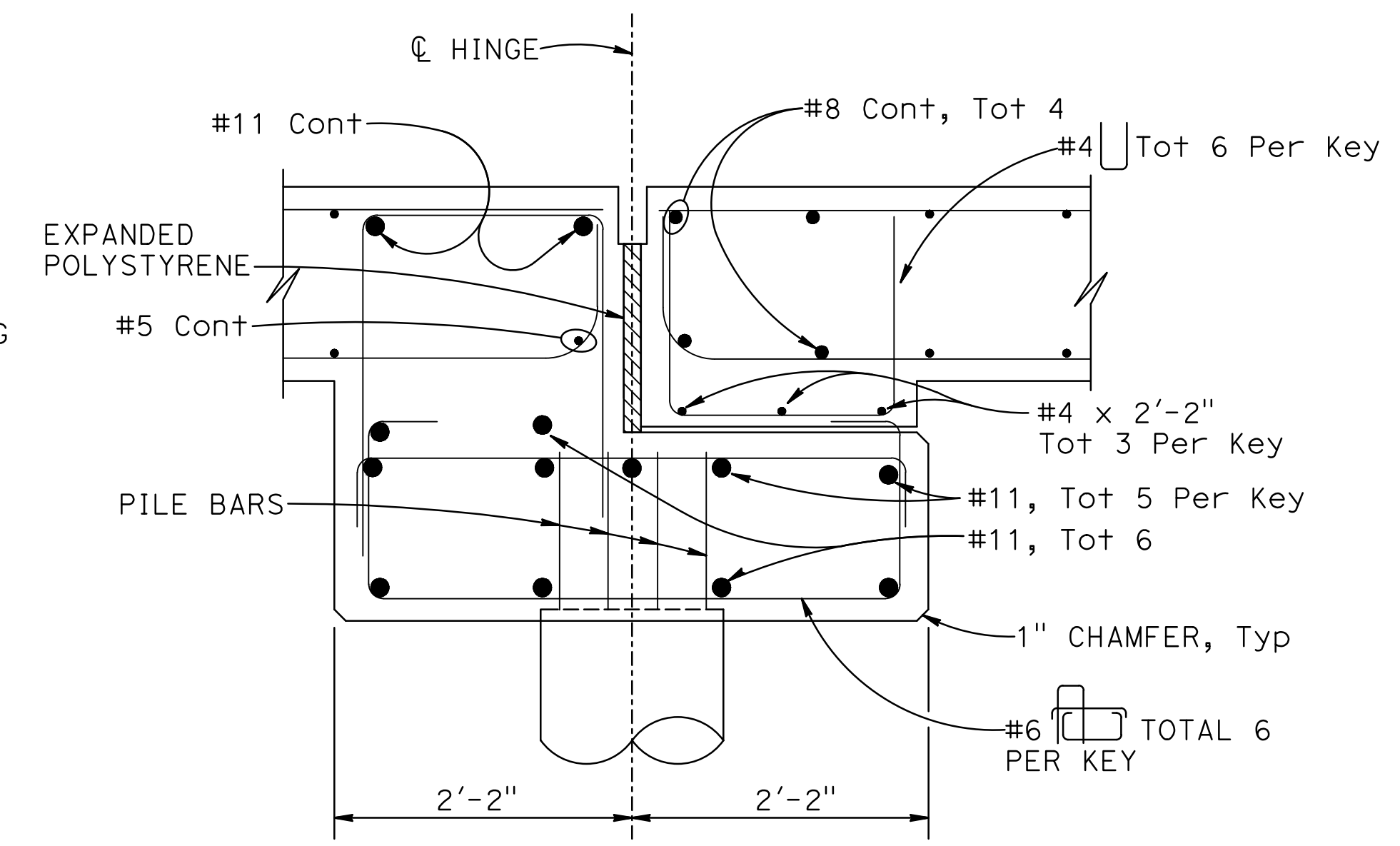
MIRRORED ELEVATION
SCALE: 1/2" = 1'-0"



SECTION A-A
SCALE: 1" = 1'-0"



PLAN
SCALE: 1/2" = 1'-0"



SECTION B-B
SCALE: 1" = 1'-0"

DESIGN	BY J. DeMARTINI	CHECKED M. ILEY
DETAILS	BY R. UHLMANN	CHECKED J. DeMARTINI
QUANTITIES	BY J. DeMARTINI	CHECKED R. UHLMANN

PREPARED FOR
COUNTY OF GLENN
 PUBLIC WORKS AGENCY

BRIDGE NO.	11C0015
PROJECT ENGINEER	G. GORDON
POST MILES	NA

BRANCH HOWARD SLOUGH BRIDGE (REPLACE)
SLAB HINGE DETAILS

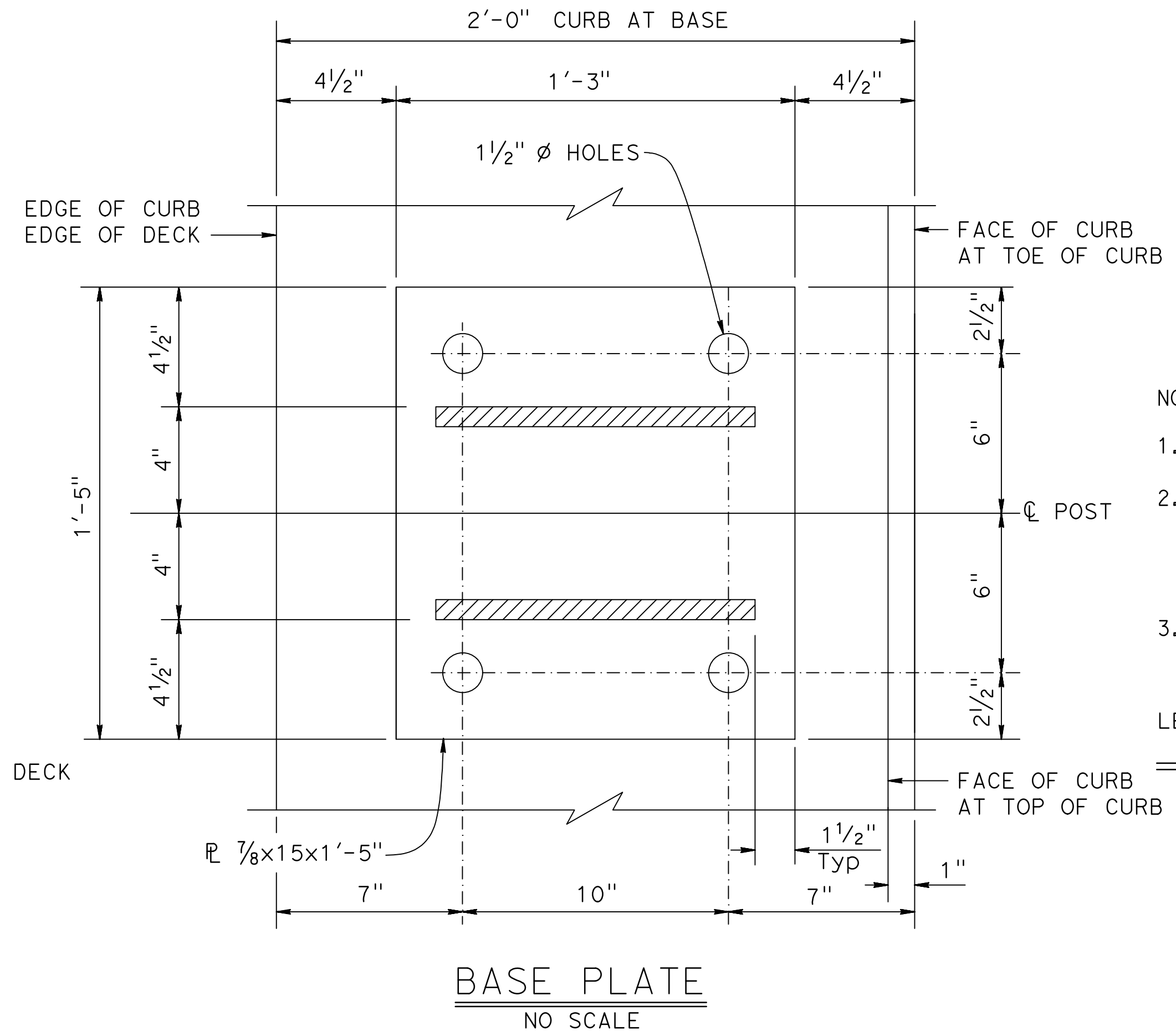
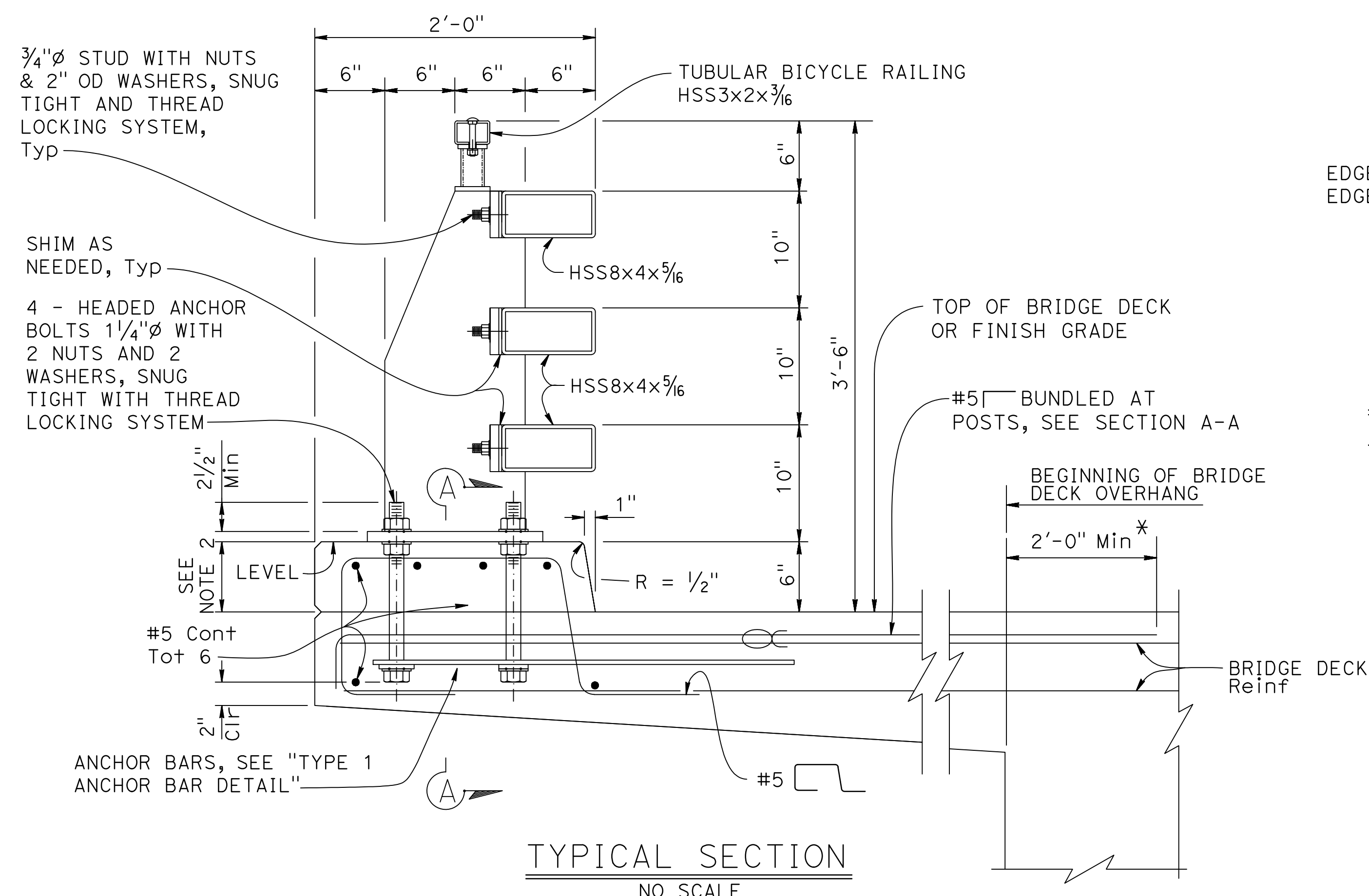
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



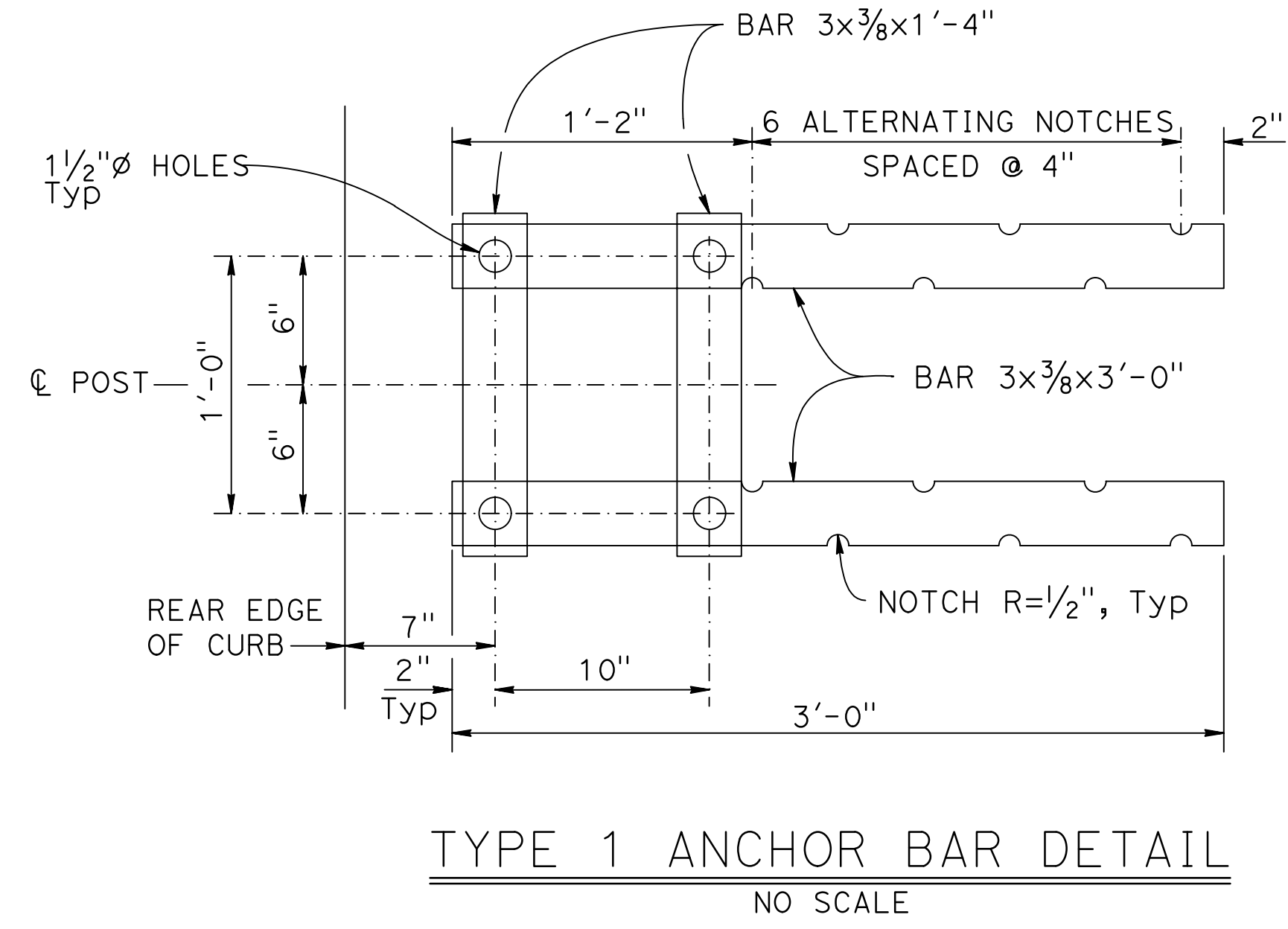
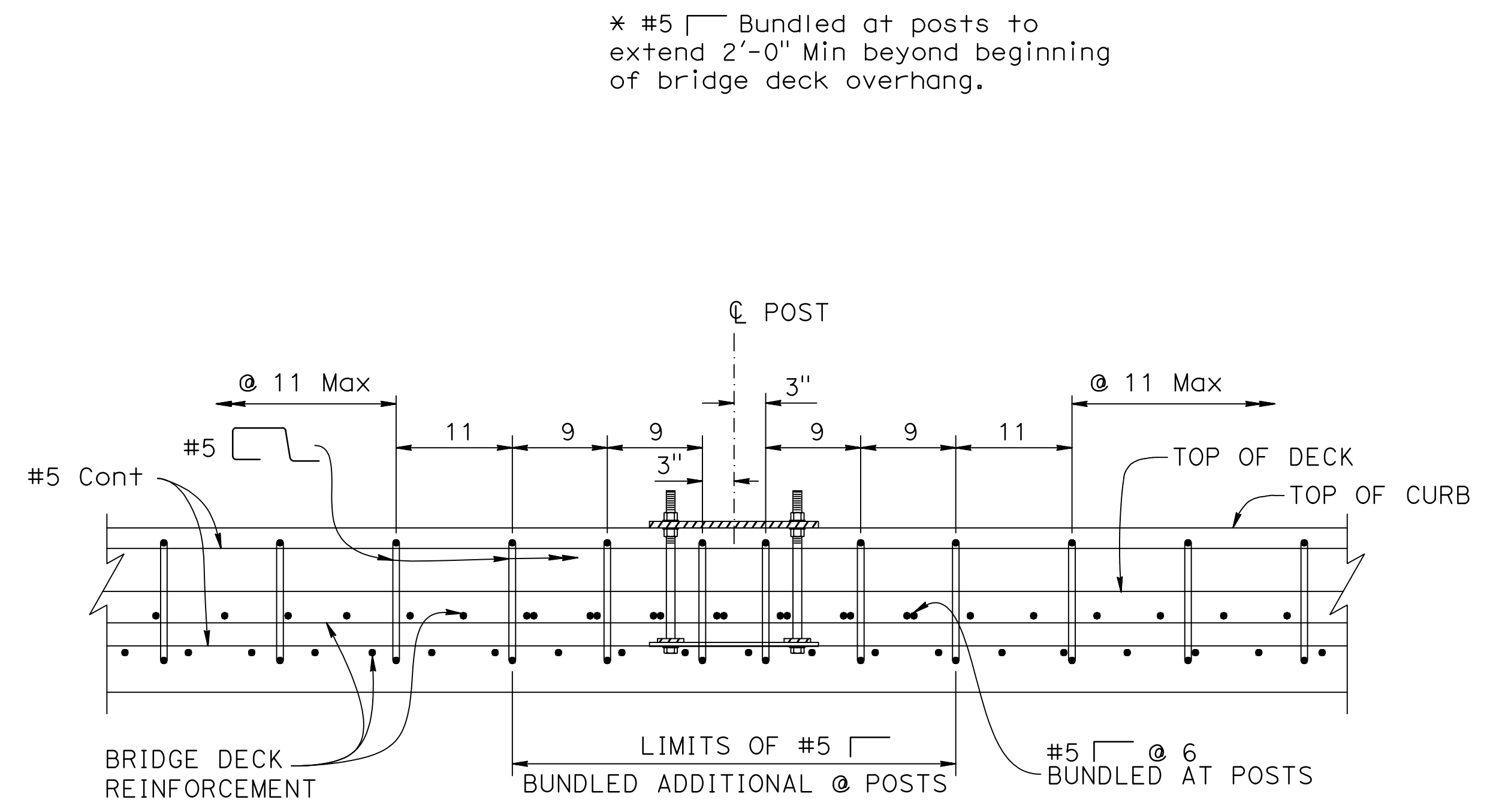
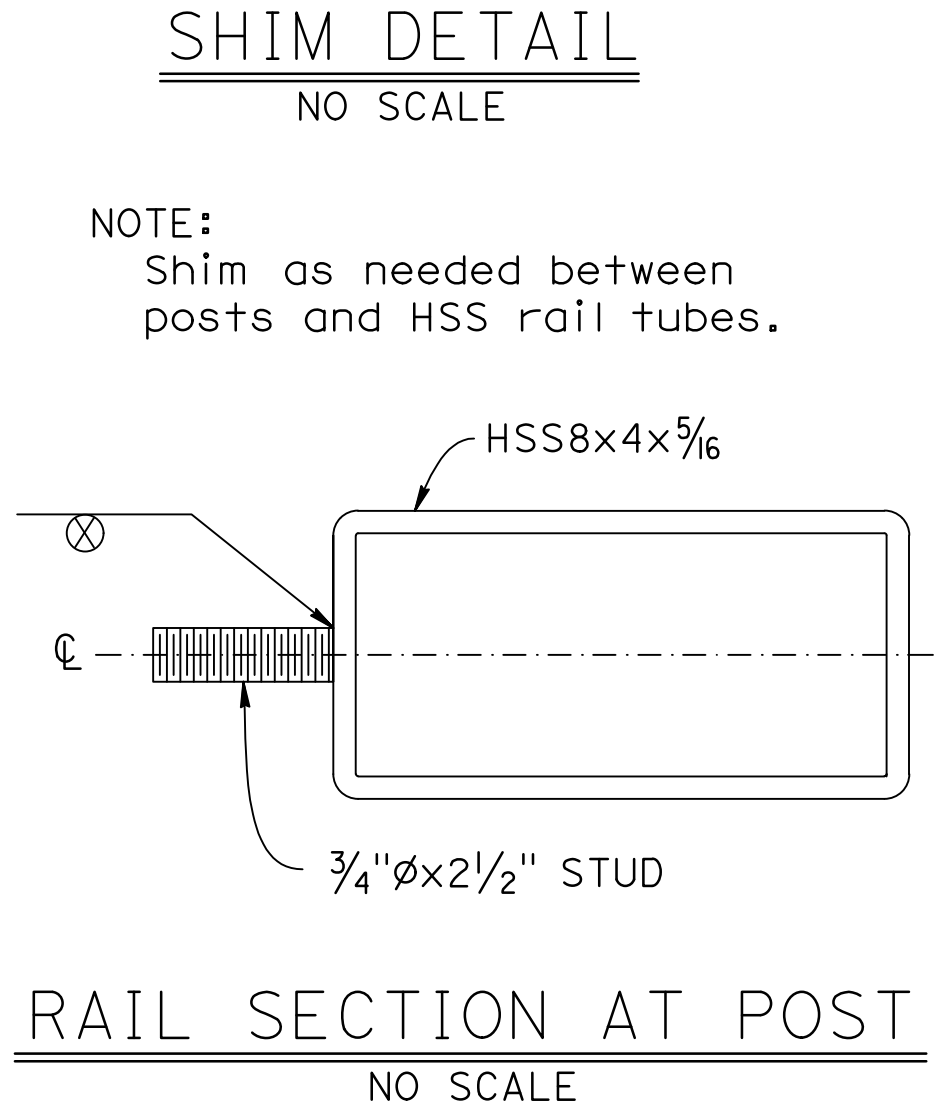
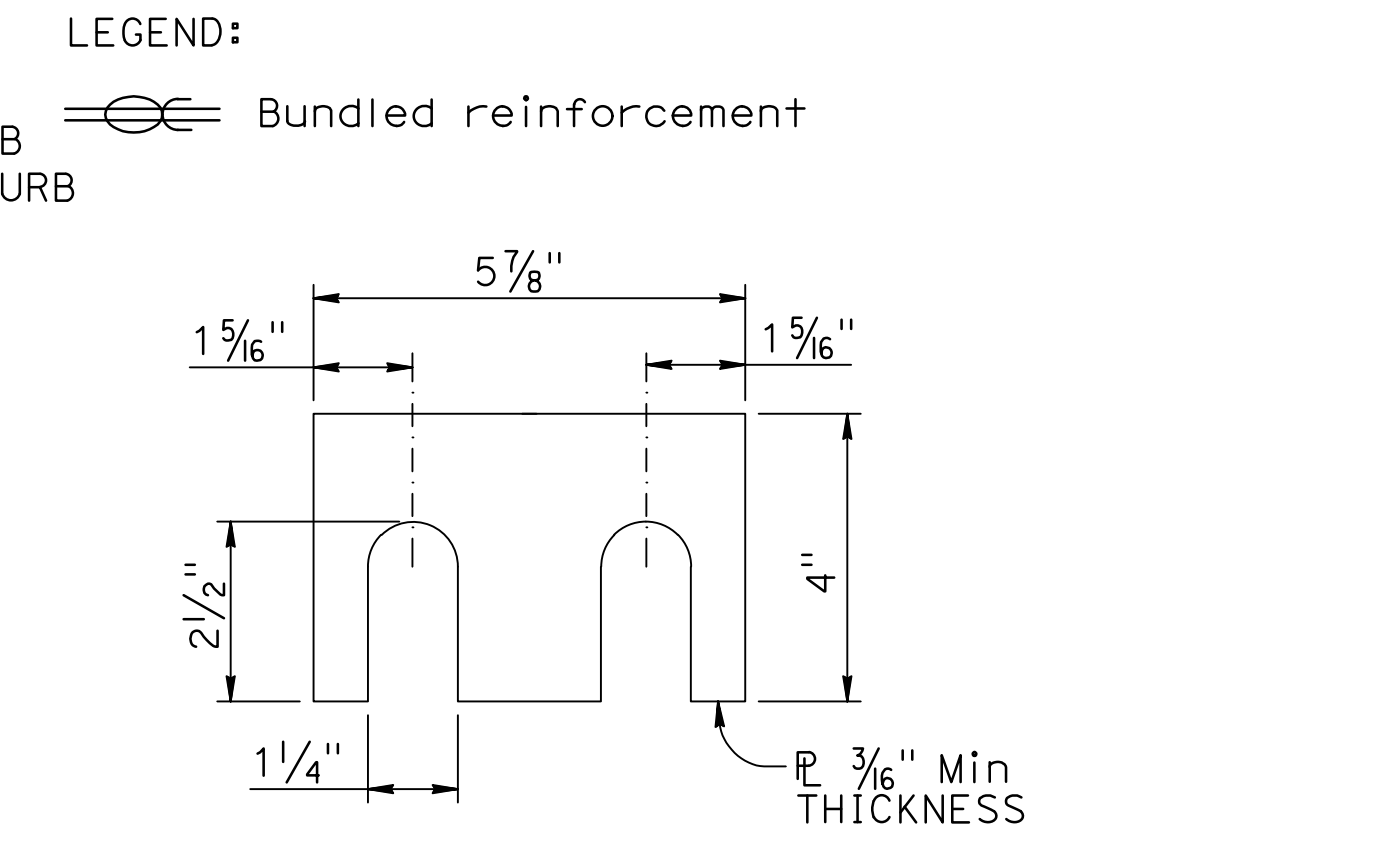
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
11/10/14 07/28/17 05/31/23	8	17

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Glenn	CR 67	NA	27	35
REGISTERED CIVIL ENGINEER GARY M. GORDON No. 42176 Exp. 03-31-24 CIVIL STATE OF CALIFORNIA				05-31-23 DATE May 31, 2023 PLANS APPROVAL DATE	



- NOTES:
- Anchor bolts may be tack welded to anchor bars.
 - Curb dimension at back side of rail will vary with bridge deck cross slope, and if overlay is placed on the bridge deck. For the same reasons, the anchor bolt lengths will vary.
 - Use extra thick washers for anchor bolts, with a minimum thickness of 0.305" and a maximum thickness of 0.375".



SECTION A-A
NO SCALE
NOTE: Post not shown for clarity.

BRIDGE STANDARD DETAILS			DESIGN	BY	CHECKED	PREPARED FOR COUNTY OF GLENN PUBLIC WORKS AGENCY	BRIDGE NO.	BRANCH HOWARD SLOUGH BRIDGE (REPLACE) CALIFORNIA ST-75 BRIDGE RAIL DETAILS No. 1	
xs16-116-1	JULY 2022	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.	DETAILS	K. COOK-GUTERIEZ	G. GORDON		11C0015		
FILE NO.	APPROVAL DATE		QUANTITIES		G. GORDON		PROJECT ENGINEER		

Refer to: <http://www.dot.ca.gov/hq/esc/techpubs/manual/bridgemanuals/bridge-standard-detail-sheets/index.html>

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

DATE PLOTTED => 05/31/2023 11:00:11 AM USERNAME => KEVIN

REVISION DATES: 12/18/19, 06/28/22, 01/05/22

SHEET 9 OF 17

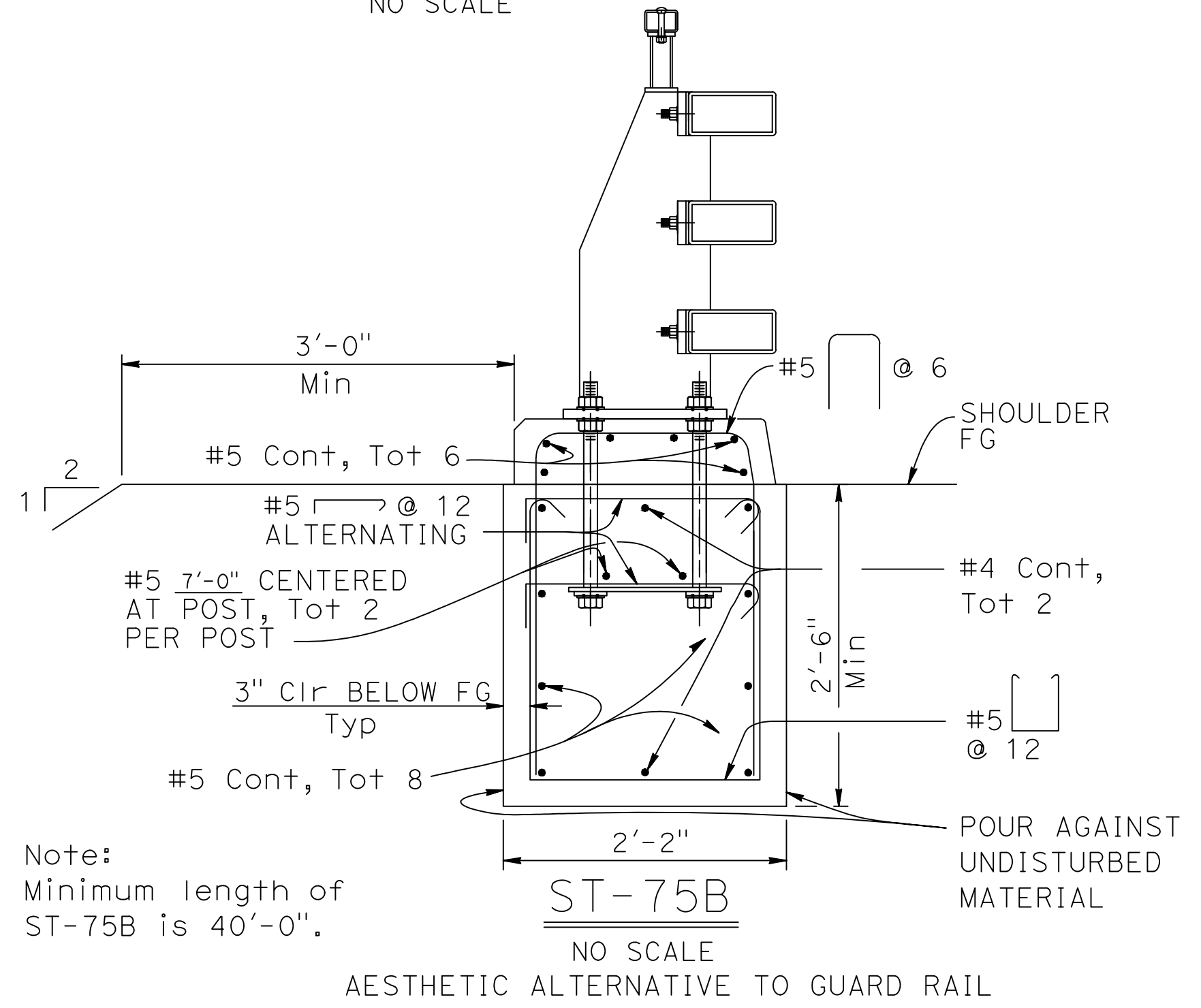
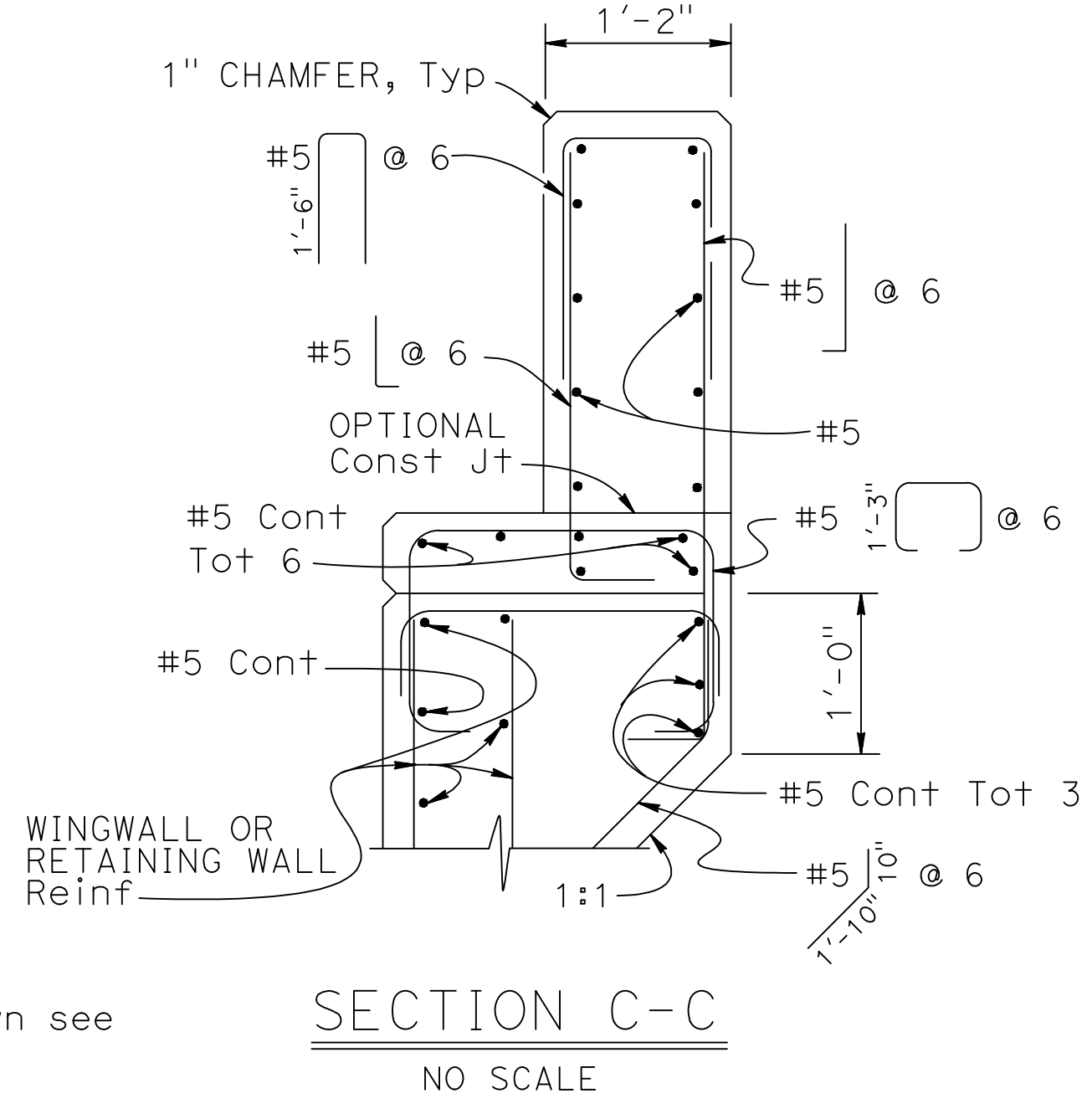
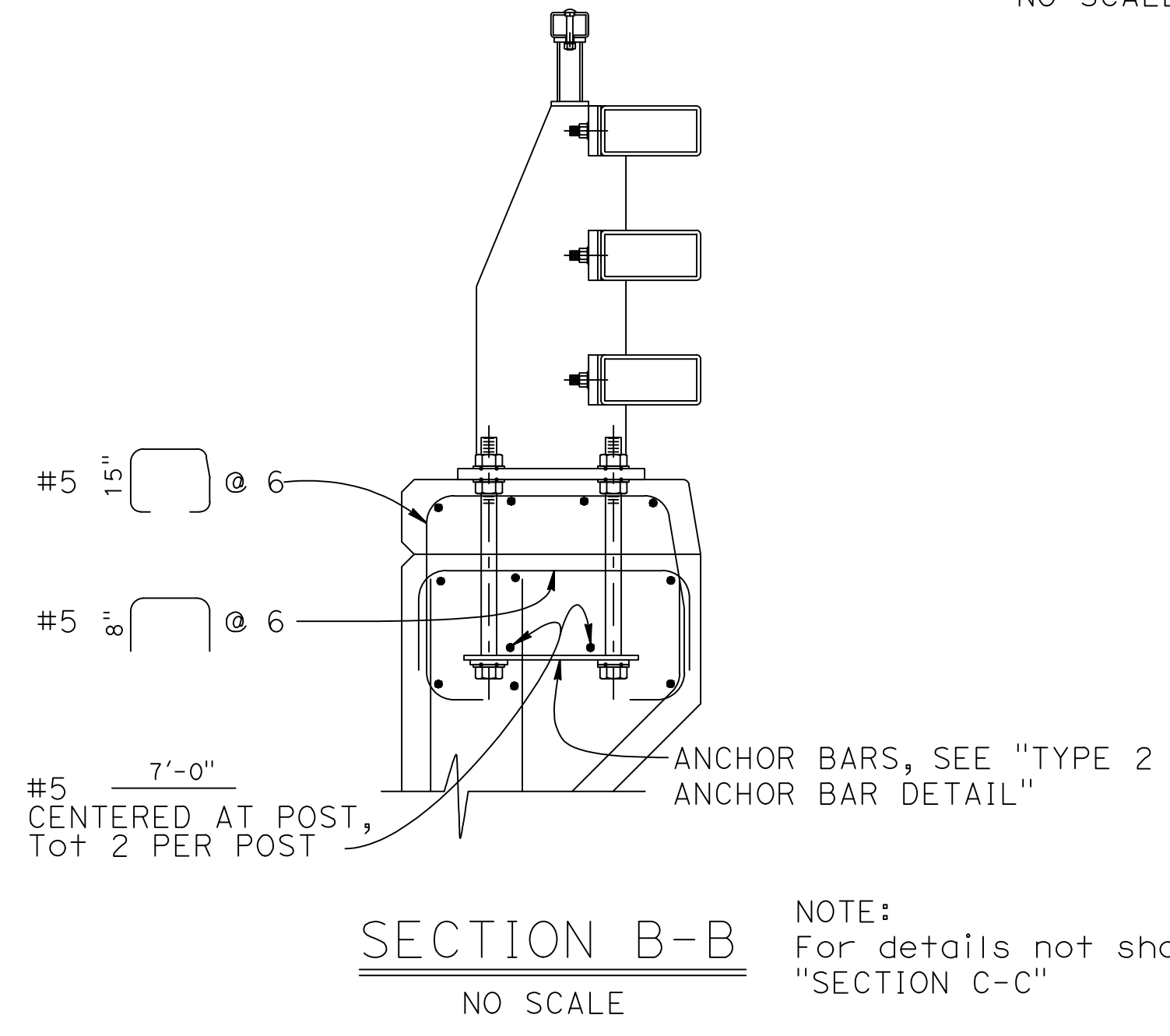
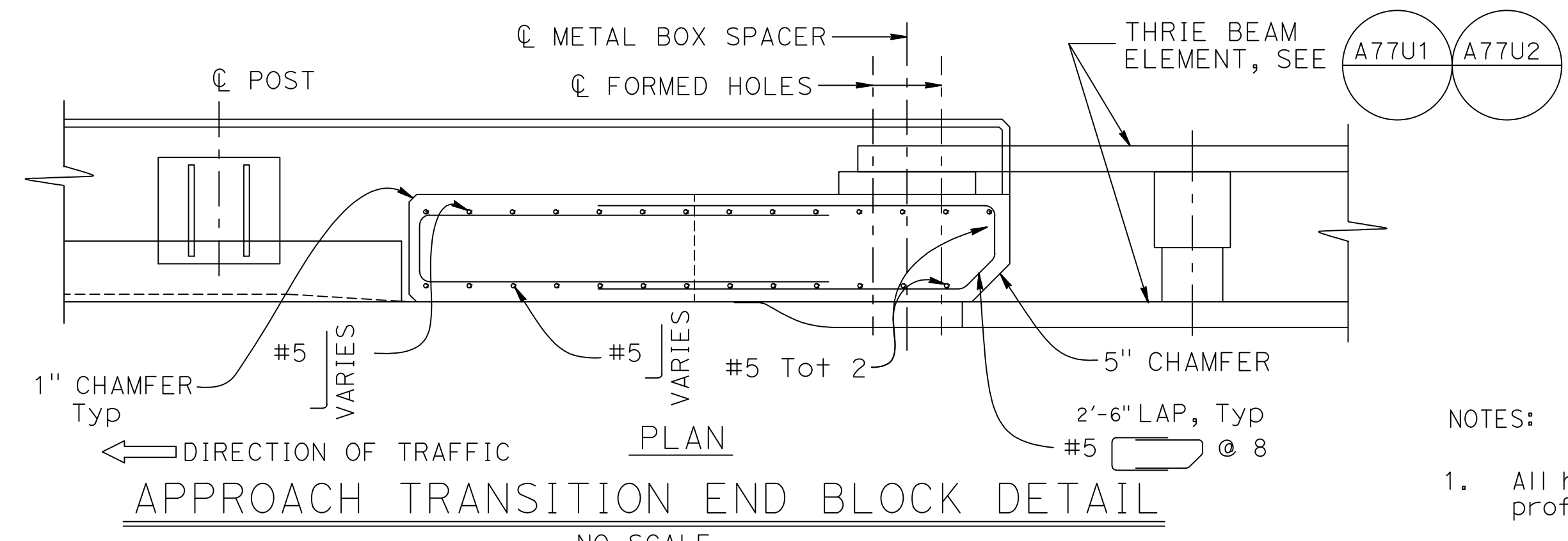
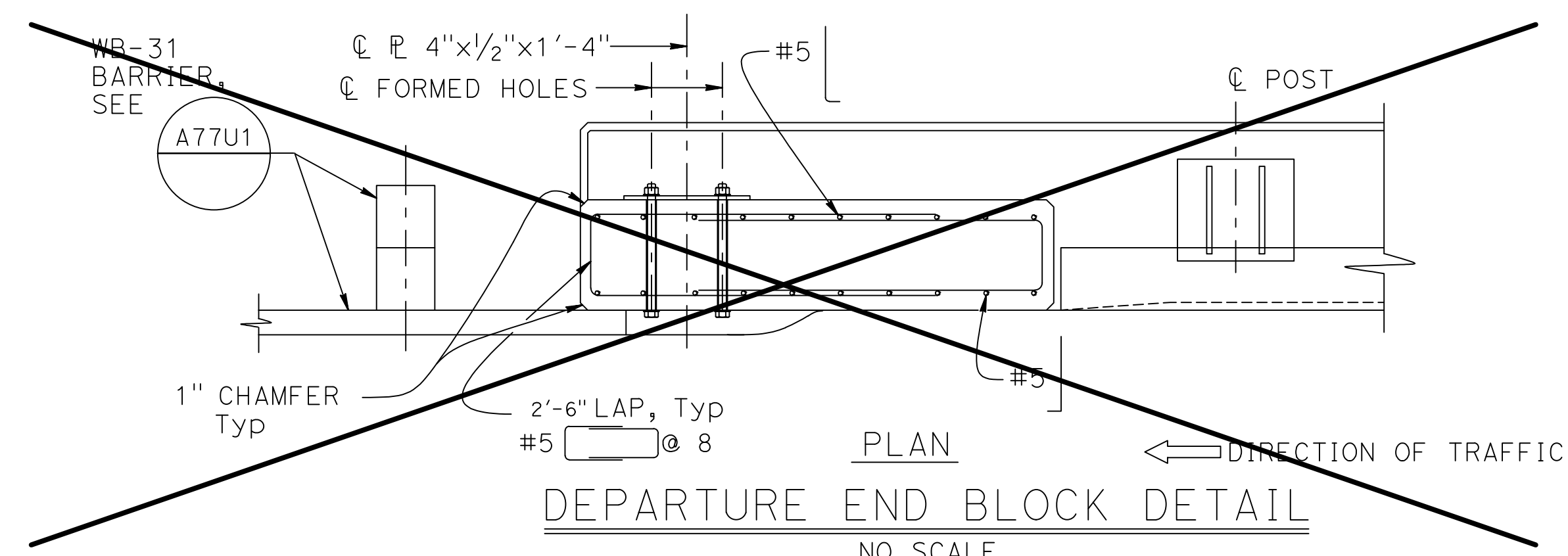
FILE => 11-0015-r-rspxs16-116-1

2022 STANDARD PLAN XS-16-116-1

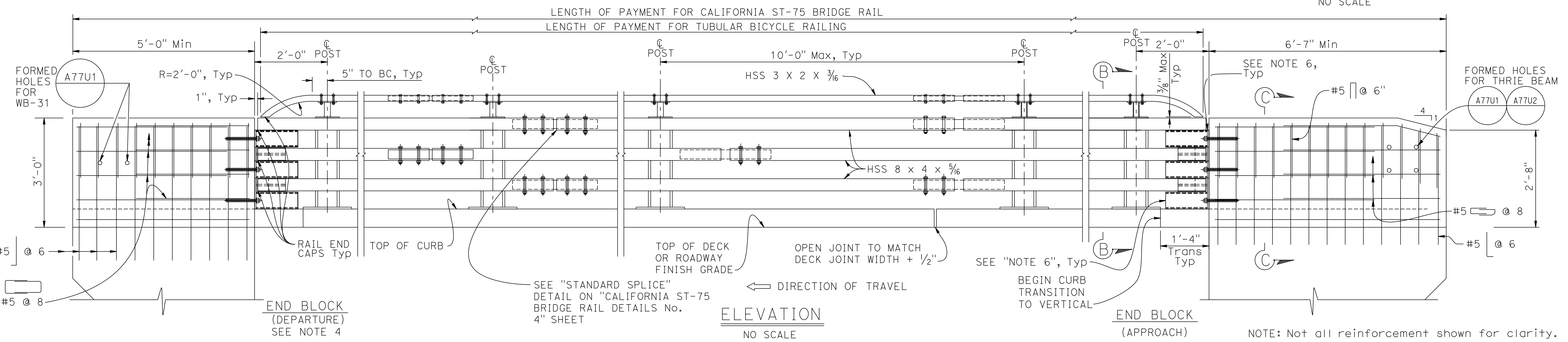
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Glenn	CR 67	NA	28	35

REGISTERED CIVIL ENGINEER
 DATE 05-31-23
 May 31, 2023
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 GARY M. GORDON
 No. 42176
 Exp. 03-31-24
 CIVIL
 STATE OF CALIFORNIA



- NOTES:
- All horizontal members are parallel to longitudinal profile grade.
 - Posts are normal to profile grade of structure.
 - Posts are vertical to the transverse cross section.
 - If departure end block is within the Clear Recovery Zone (CRZ, 30 feet for expressways and freeways and 20 feet for conventional highways) of opposing traffic, then use the approach end block at the departure end.
 - Anchor bolts may be tack welded to anchor bars.
 - For parapet shoes details see "CALIFORNIA ST-76 BRIDGE RAIL DETAILS No. 5" SHEET.
- TYPE 2 ANCHOR BAR DETAIL**
NO SCALE



BRIDGE STANDARD DETAILS

xs16-116-2	JULY 2022	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	

DESIGN	BY	CHECKED
DETAILS	BY K. COOK-GUTERIEZ	CHECKED G. GORDON
QUANTITIES	BY	CHECKED

PREPARED FOR

COUNTY OF GLENN

PUBLIC WORKS AGENCY

G. GORDON
PROJECT ENGINEER

BRIDGE NO.	11C0015	BRANCH HOWARD SLOUGH BRIDGE (REPLACE)
POST MILES	NA	
REVISION DATES	12/21/19 06/28/22 01/05/22	

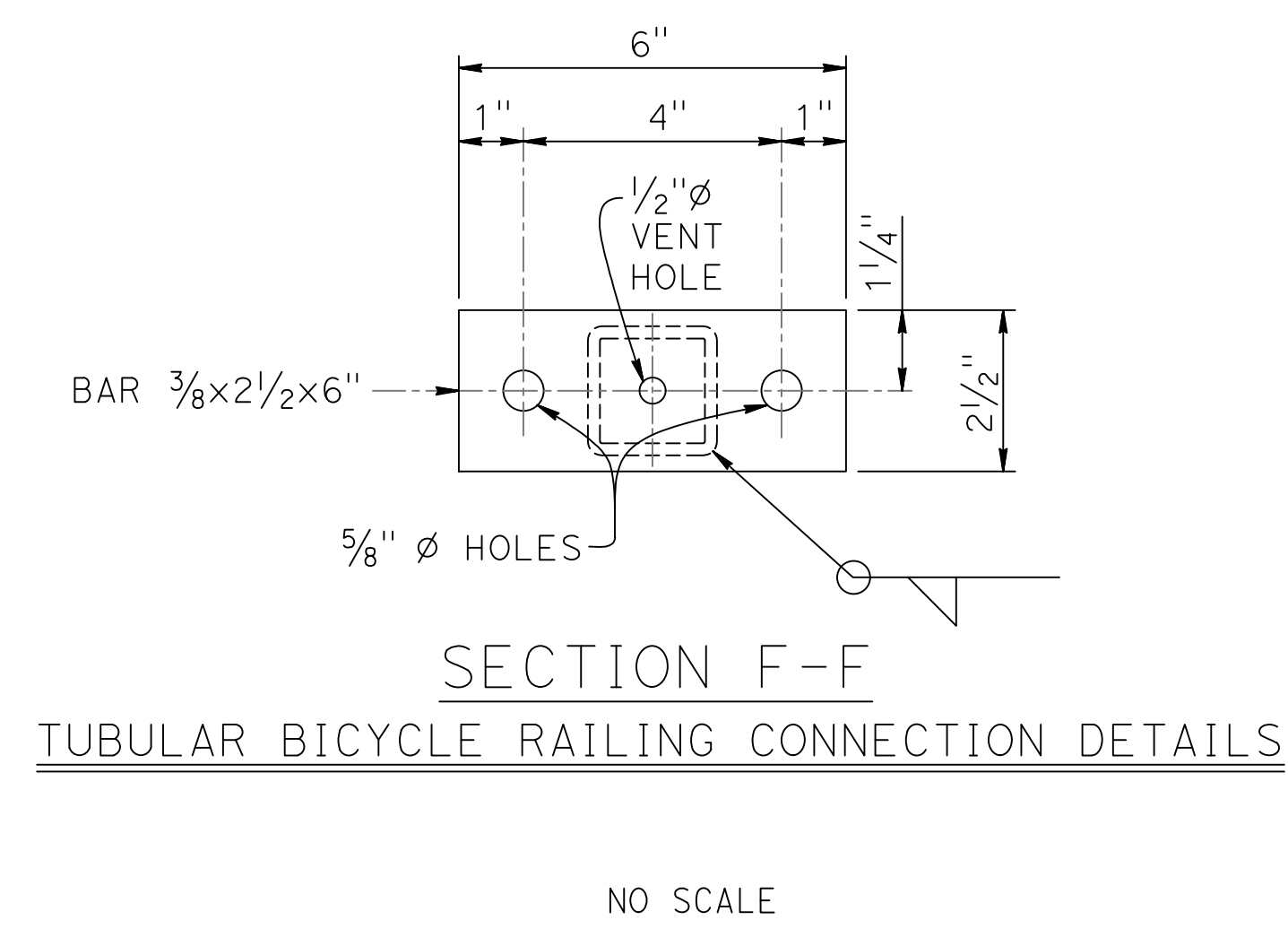
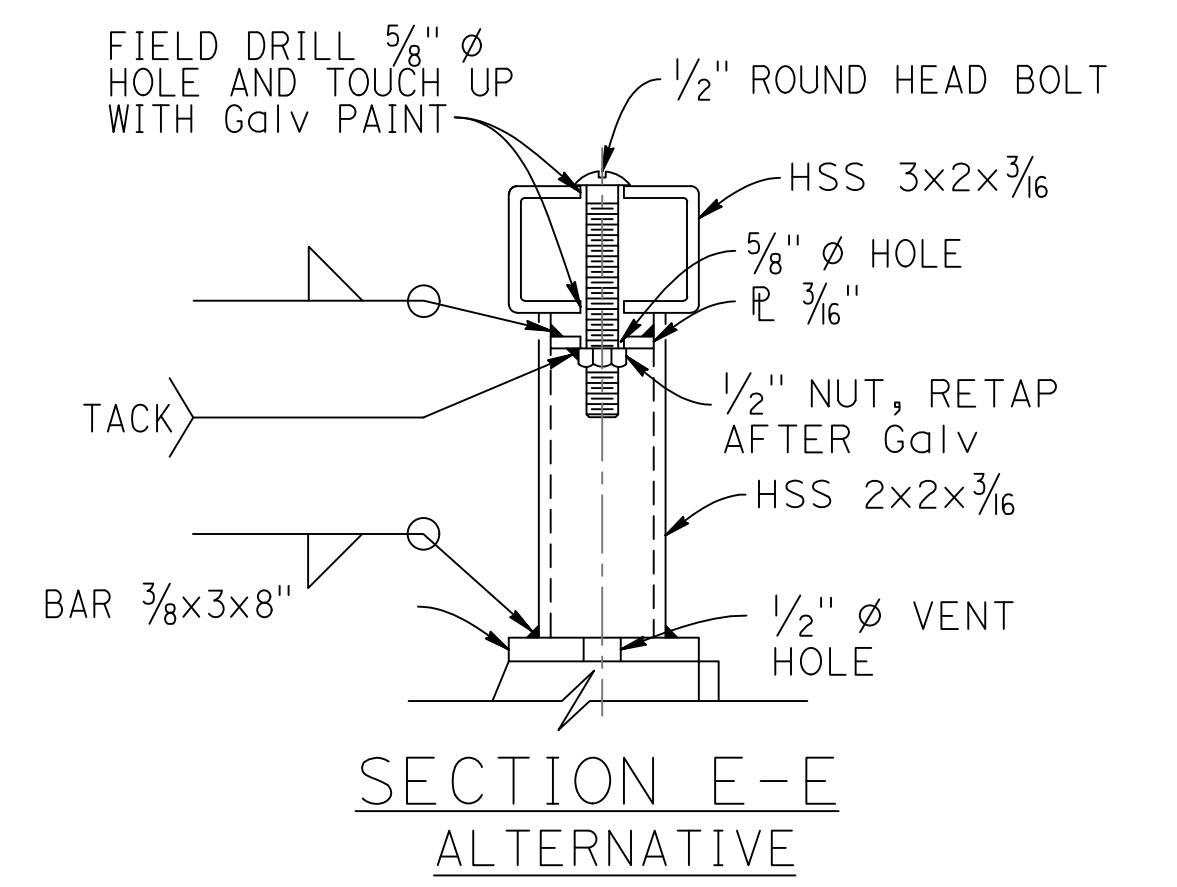
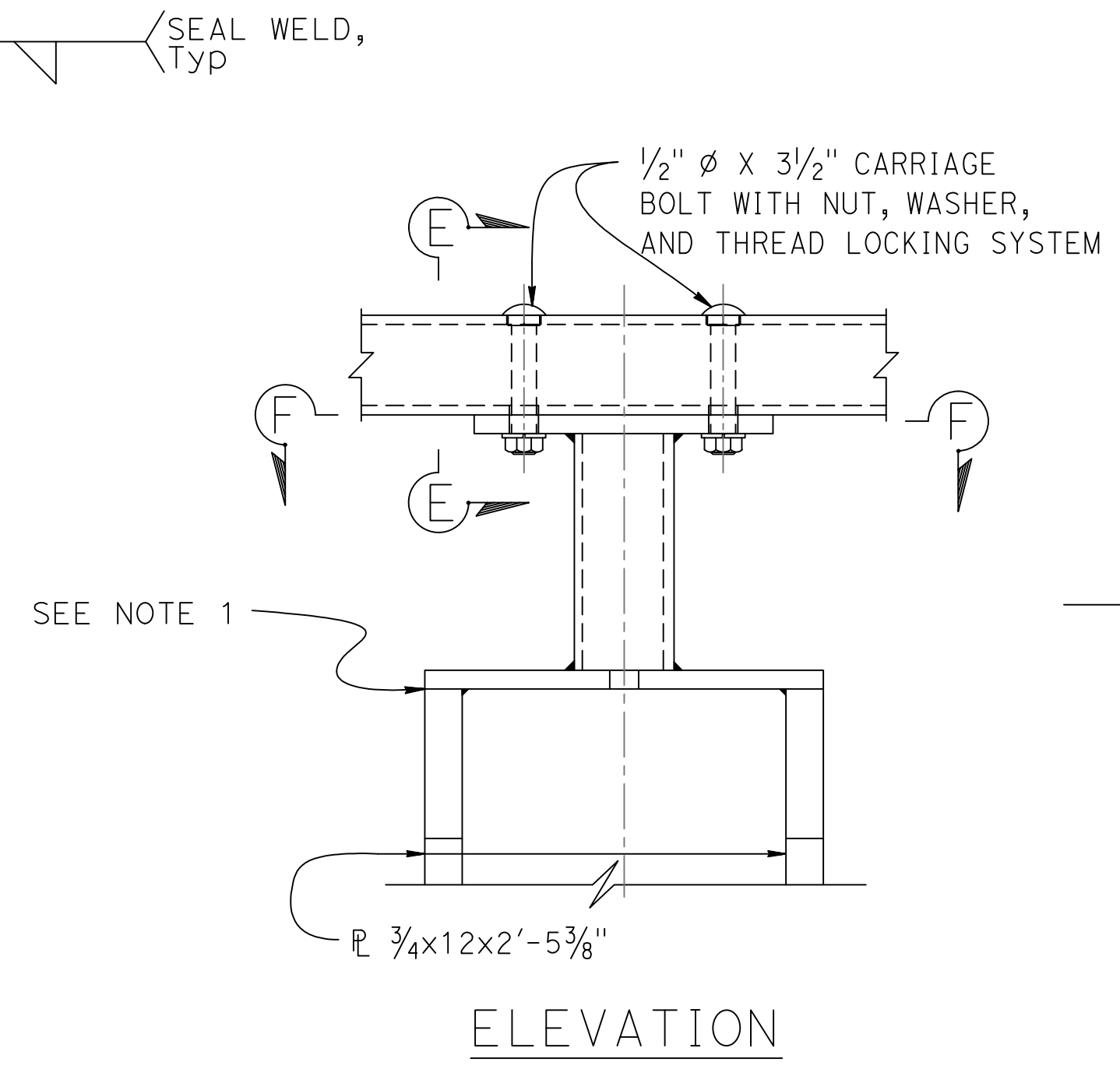
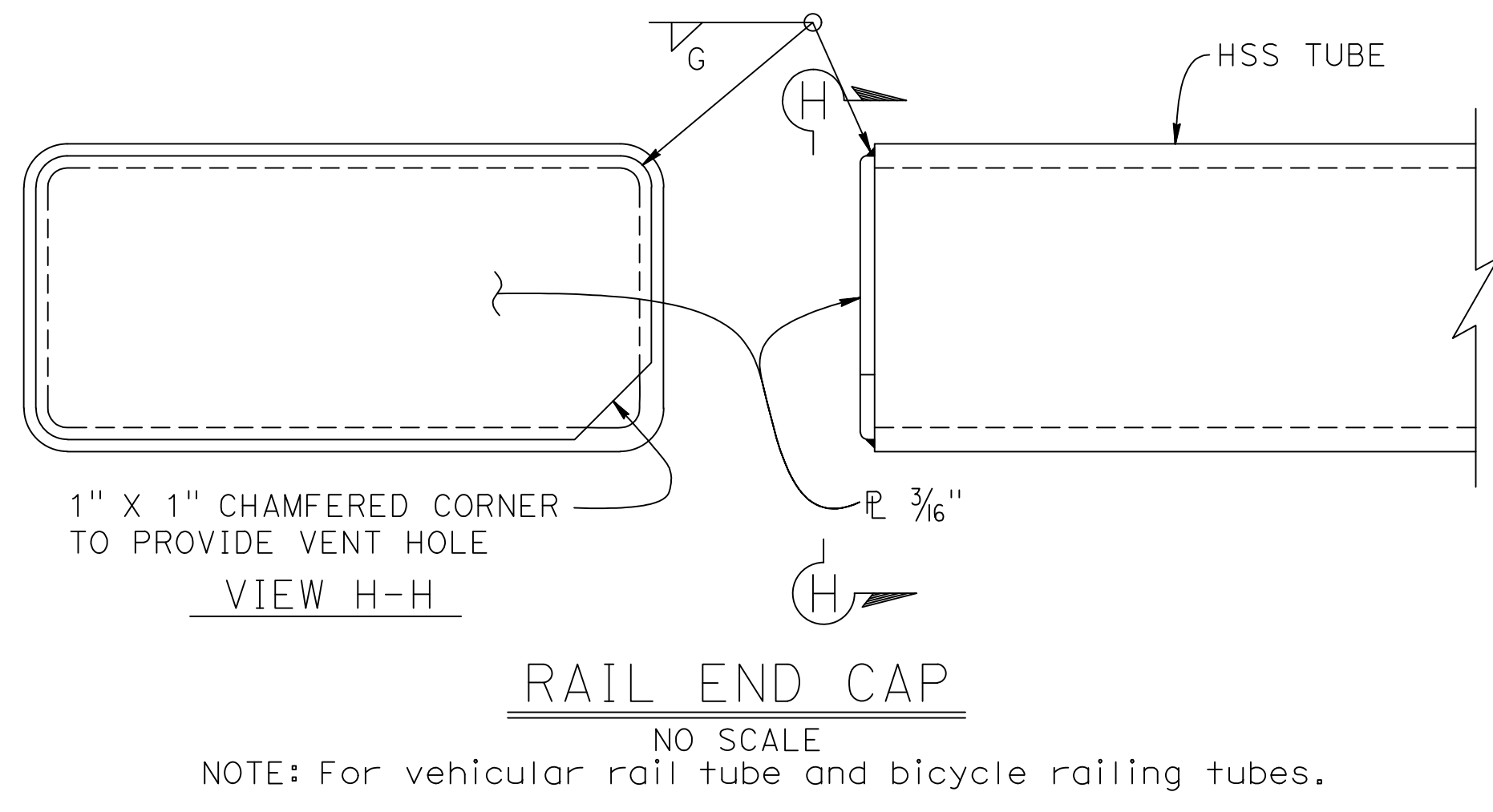
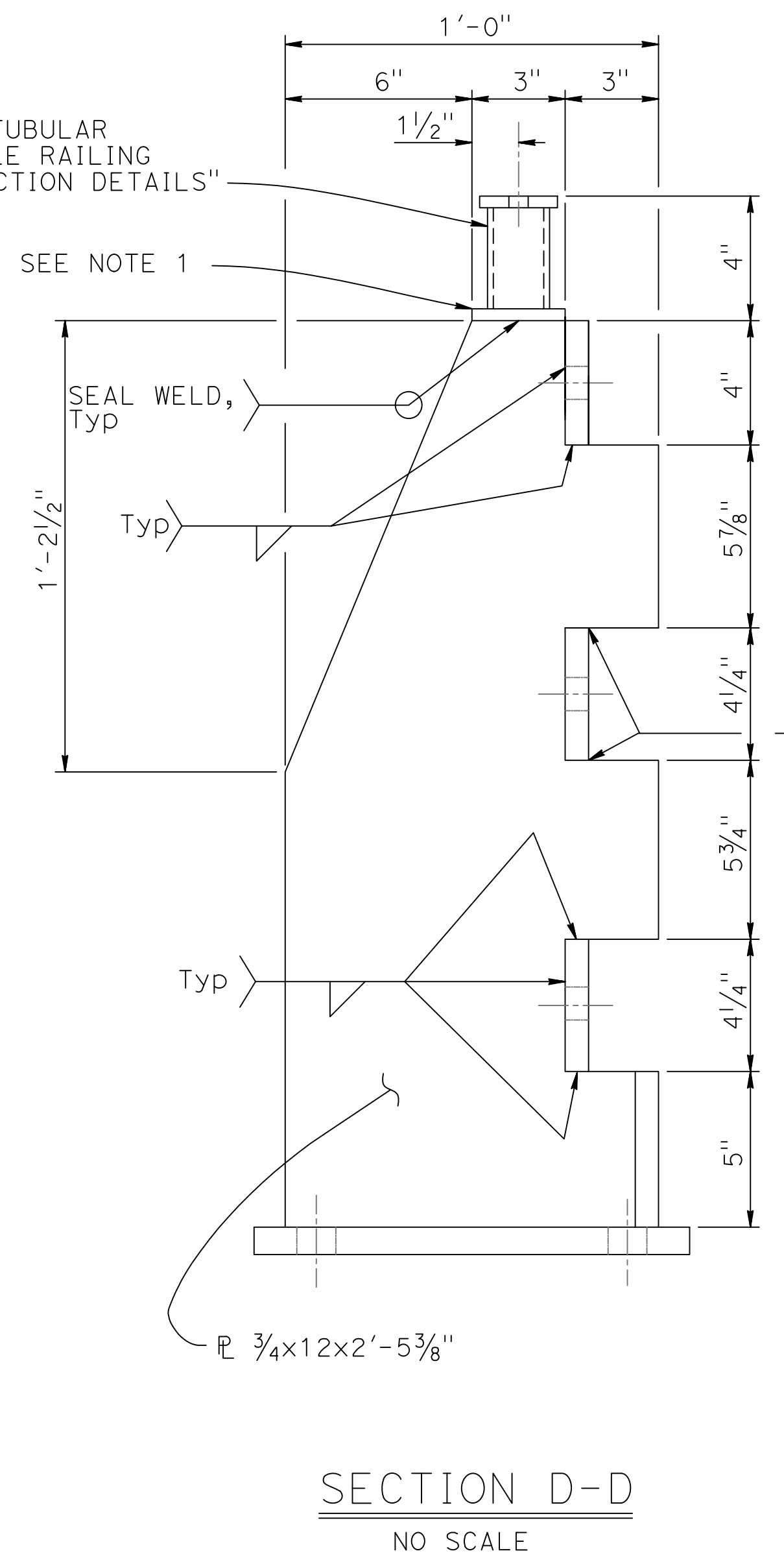
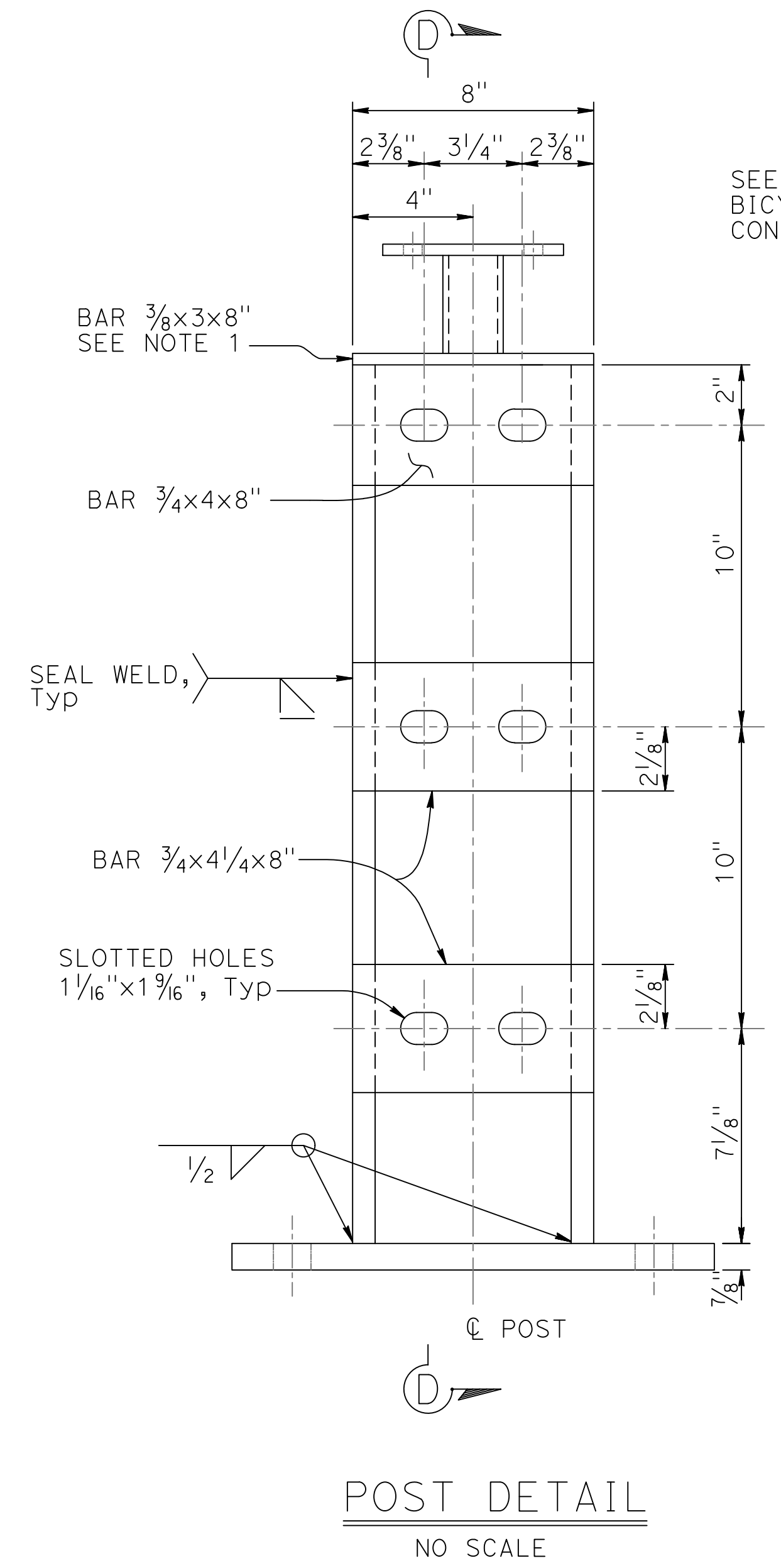
DETAILS No. 2

2022 STANDARD PLAN XS-16-116-2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Glenn	CR 67	NA	29	35

REGISTERED CIVIL ENGINEER
 DATE 05-31-23
 May 31, 2023
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 GARY M. GORDON
 No. 42176
 Exp. 03-31-24
 CIVIL
 STATE OF CALIFORNIA



NOTE:
1. For access controlled freeways and expressways where bicycle traffic is prohibited by signage on the on-ramps, the bicycle railing (includes bar 3/8x3x8" and above) may be omitted.

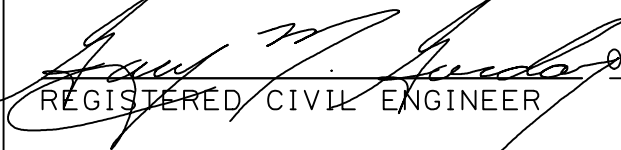

BRIDGE STANDARD DETAILS		
xs16-116-3 FILE NO.	JULY 2022 APPROVAL DATE	The components of the Bridge Standard Details have been prepared under the responsible charge of the Technical Owner, a registered civil engineer in the State of California

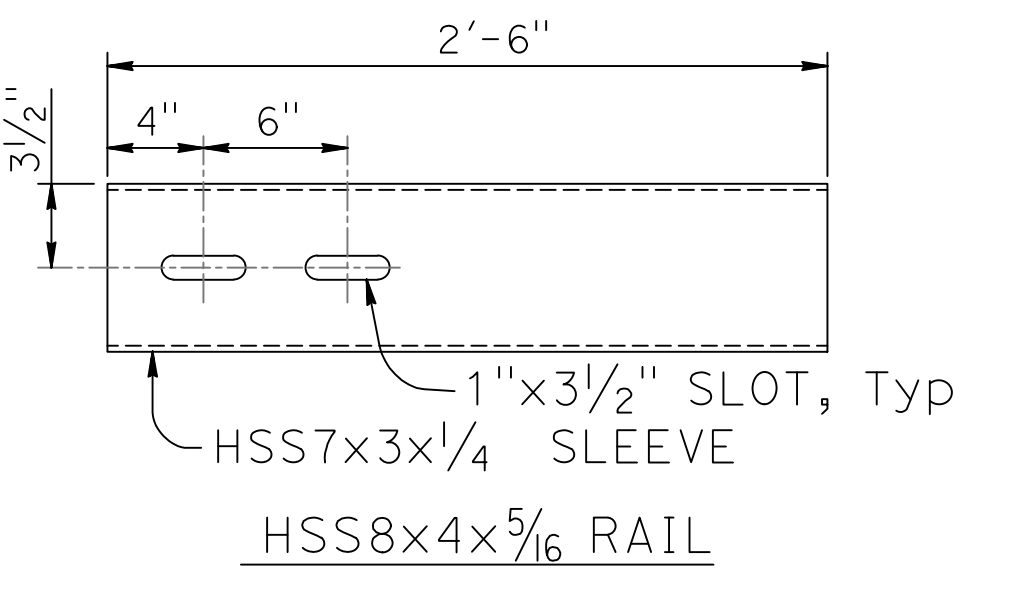
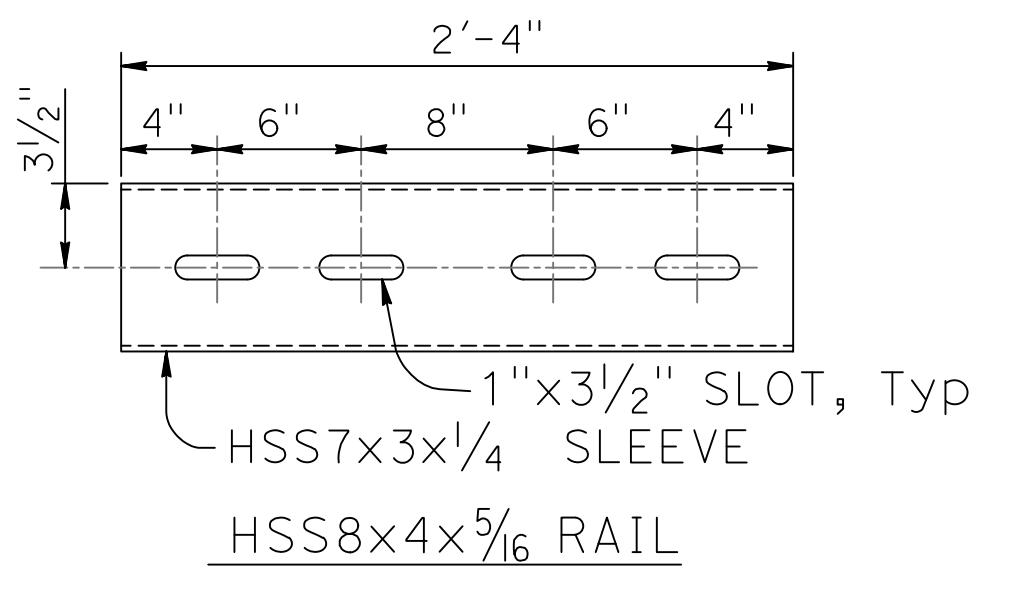
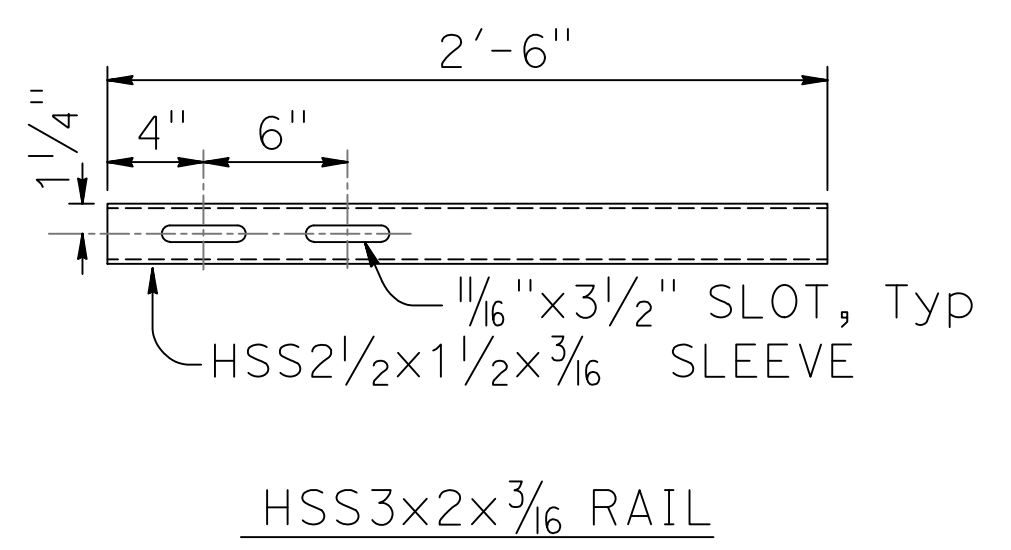
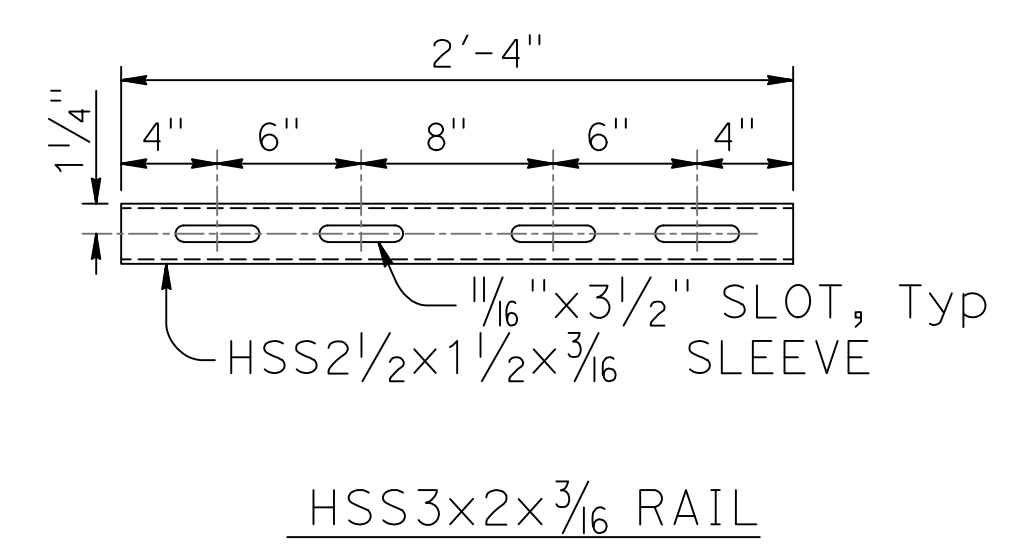
DESIGN	BY	CHECKED
DETAILS	BY K. COOK-GUTERIEZ	CHECKED G. GORDON
QUANTITIES	BY	CHECKED

PREPARED FOR COUNTY OF GLENN PUBLIC WORKS AGENCY	G. GORDON PROJECT ENGINEER	BRIDGE NO. 11C0015	BRANCH HOWARD SLOUGH BRIDGE (REPLACE) CALIFORNIA ST-75 BRIDGE RAIL DETAILS No. 3
		POST MILES NA	

REVISION DATES	SHEET	OF
12/18/19 06/28/22 01/05/22	11	17

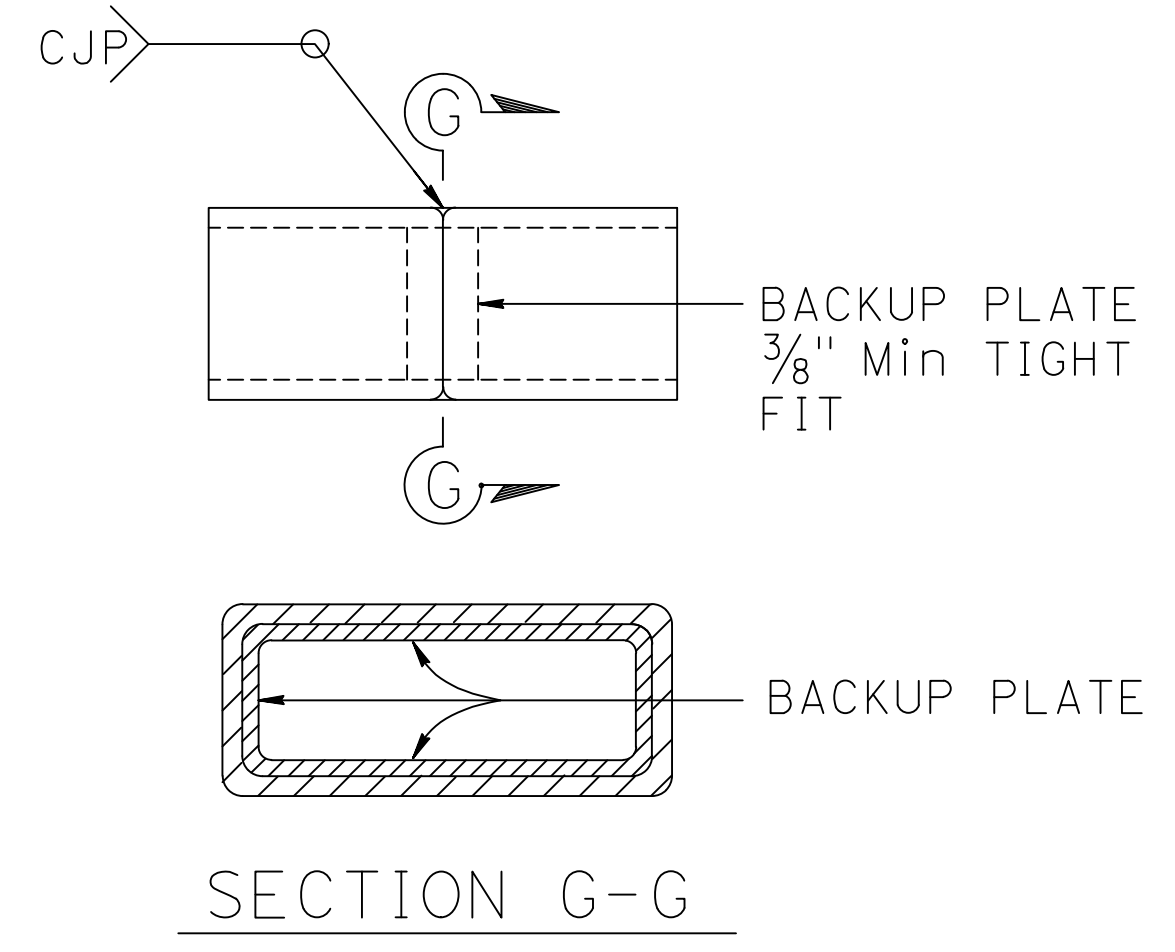
2022 STANDARD PLAN XS-16-116-3

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Glenn	CR 67	NA	30	35
 REGISTERED CIVIL ENGINEER DATE 05-31-23					
May 31, 2023 PLANS APPROVAL DATE					



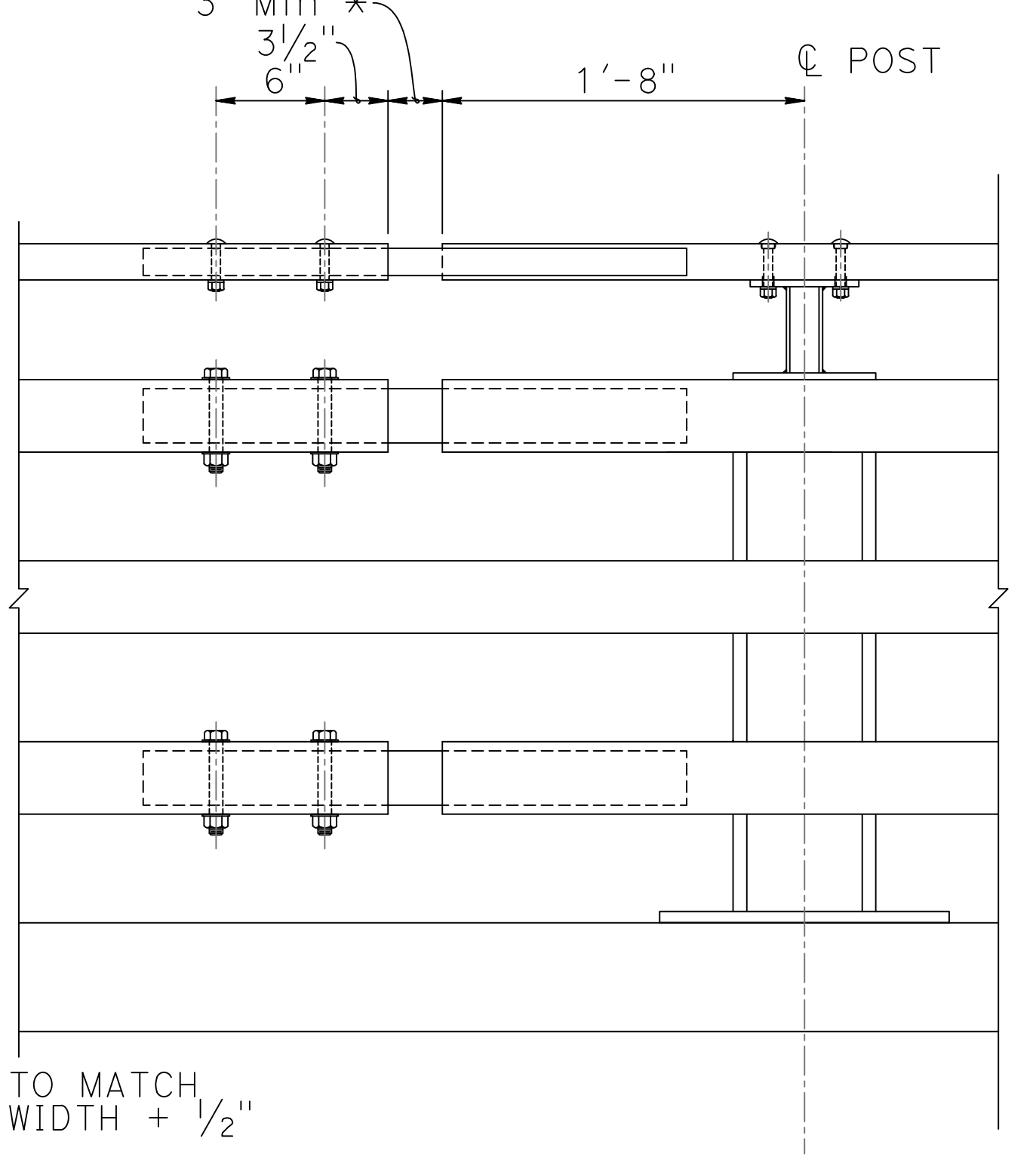
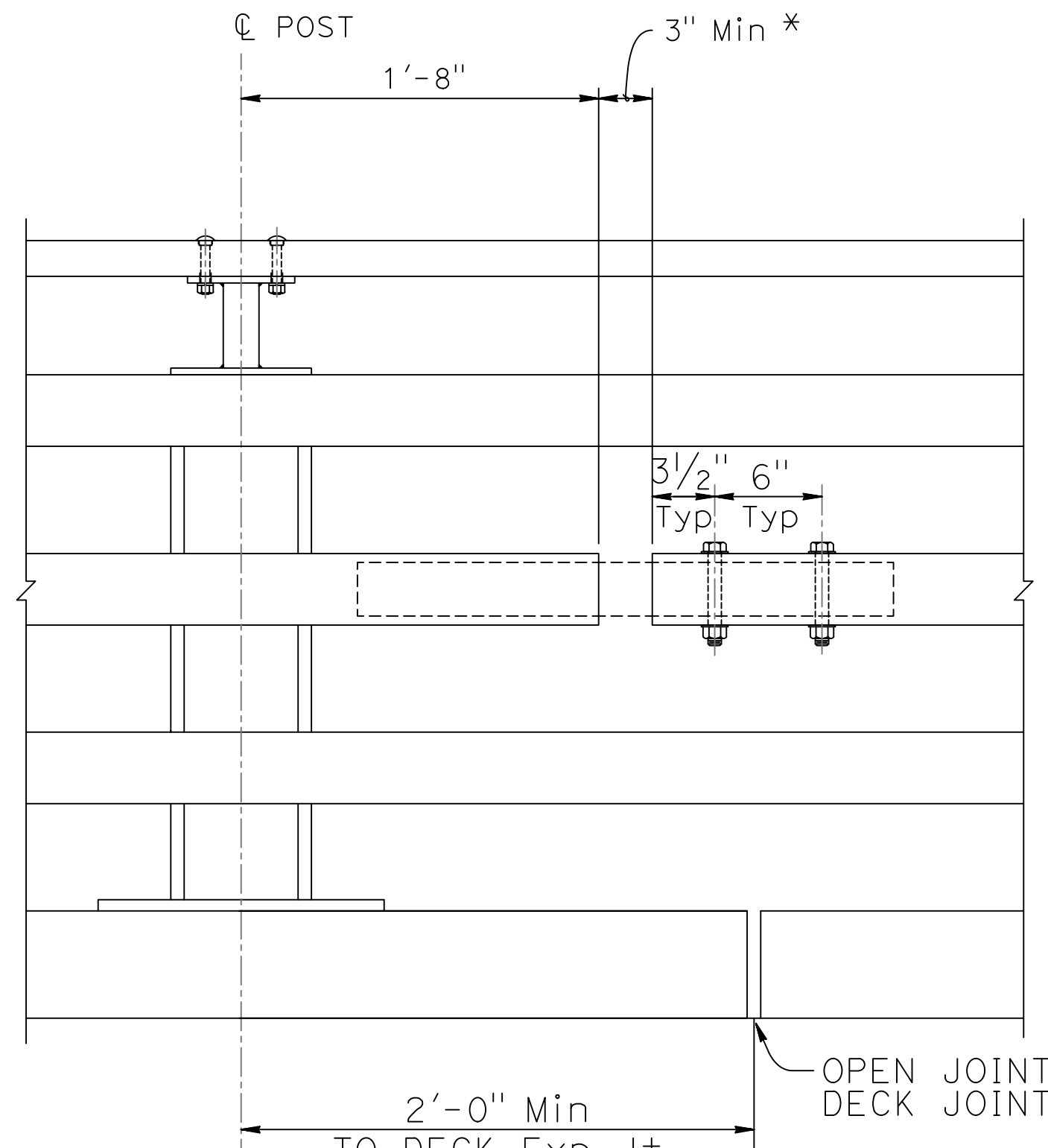
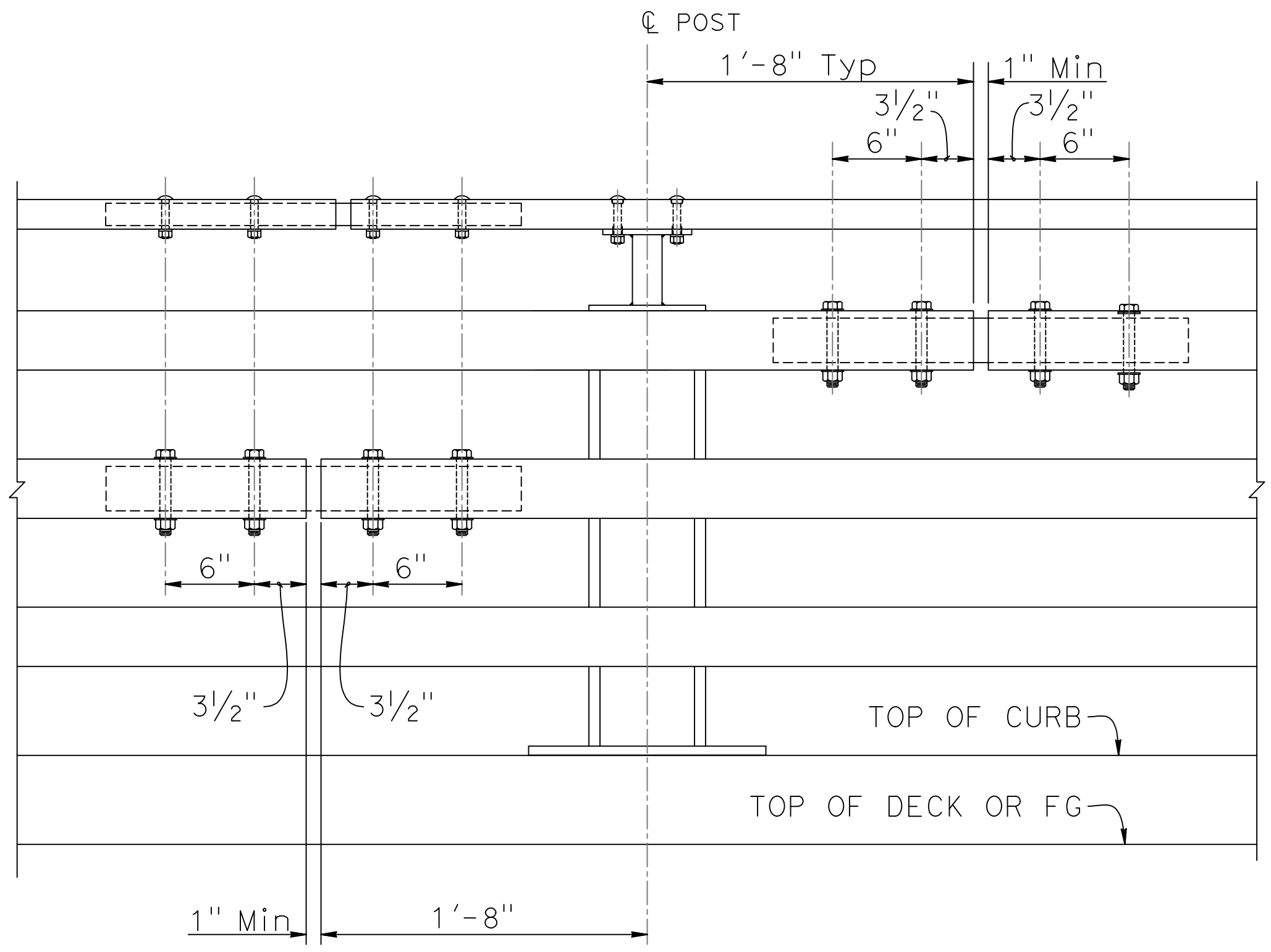
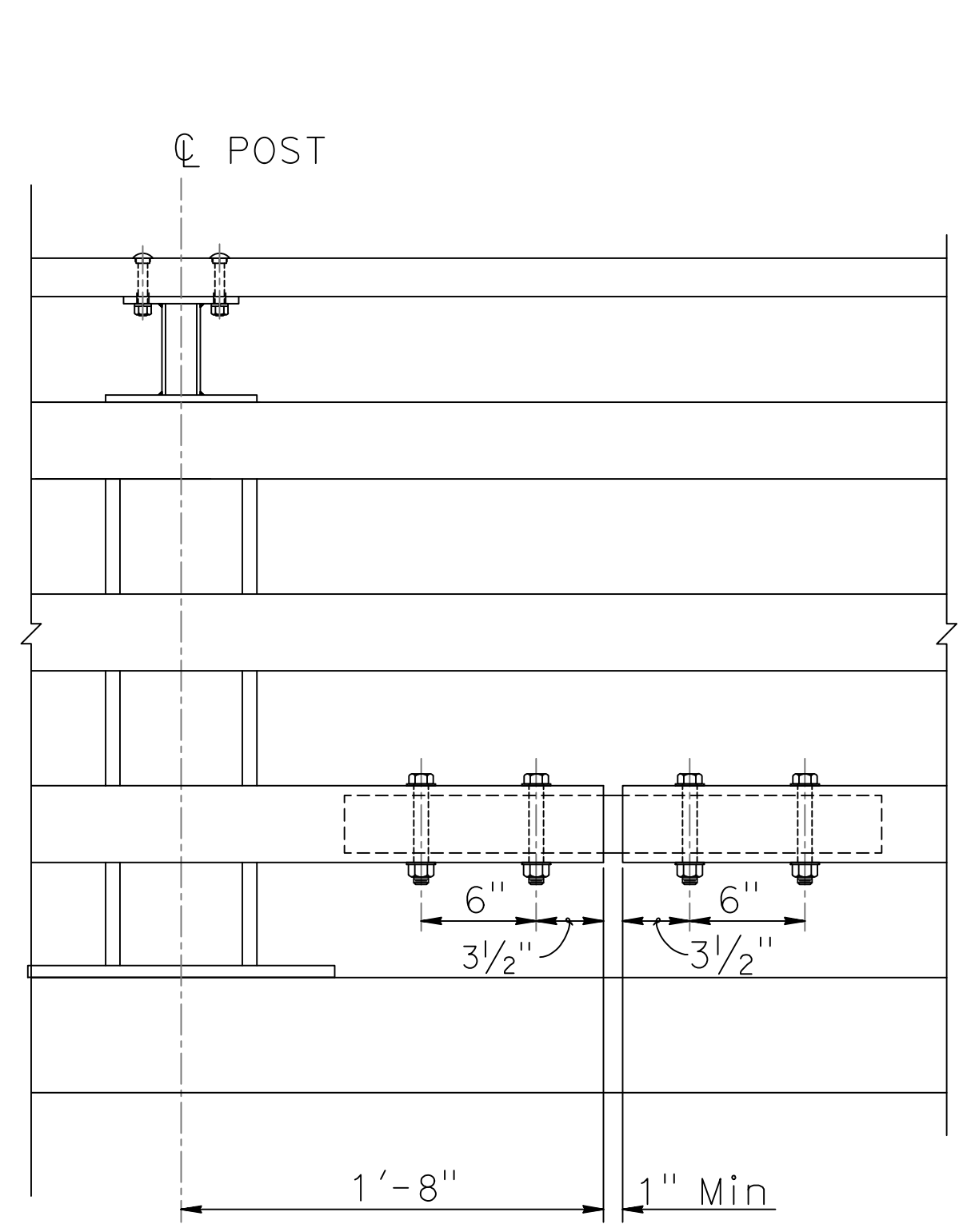
STANDARD SLEEVES
DETAILS
 NO SCALE

EXPANSION SLEEVES
DETAILS
 NO SCALE



NOTES:

1. HS bolts with nut and washers, snug tightened, and thread locking system.
2. Use $\frac{1}{2}$ " ϕ x $\frac{3}{16}$ BOLTS (HSS3x2x $\frac{3}{16}$)
 Use $\frac{3}{4}$ " ϕ x $\frac{5}{16}$ BOLTS (HSS8x4x $\frac{5}{16}$)
3. Each rail length must be continuous over a minimum of two posts.
4. The fabricator must check that the tubular sleeve splices conform to the dimensions indicated to assure proper clearance.
5. Except for expansion splices, not more than one splice permitted per same side of post.



BRIDGE STANDARD DETAILS		
xs16-116-4	JULY 2022	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	

DESIGN	BY	CHECKED
DETAILS	K. COOK-GUTERIEZ	G. GORDON
QUANTITIES	BY	CHECKED

PREPARED FOR	G. GORDON
COUNTY OF GLENN	PROJECT ENGINEER
PUBLIC WORKS AGENCY	

BRIDGE NO.	11C0015	BRANCH HOWARD SLOUGH BRIDGE (REPLACE)
POST MILES	NA	
NA		
CALIFORNIA ST-75 BRIDGE RAIL		DETAILS No. 4

Refer to: <http://www.dot.ca.gov/hq/esc/techpubs/manual/bridgemanuals/bridge-standard-detail-sheets/index.html>

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

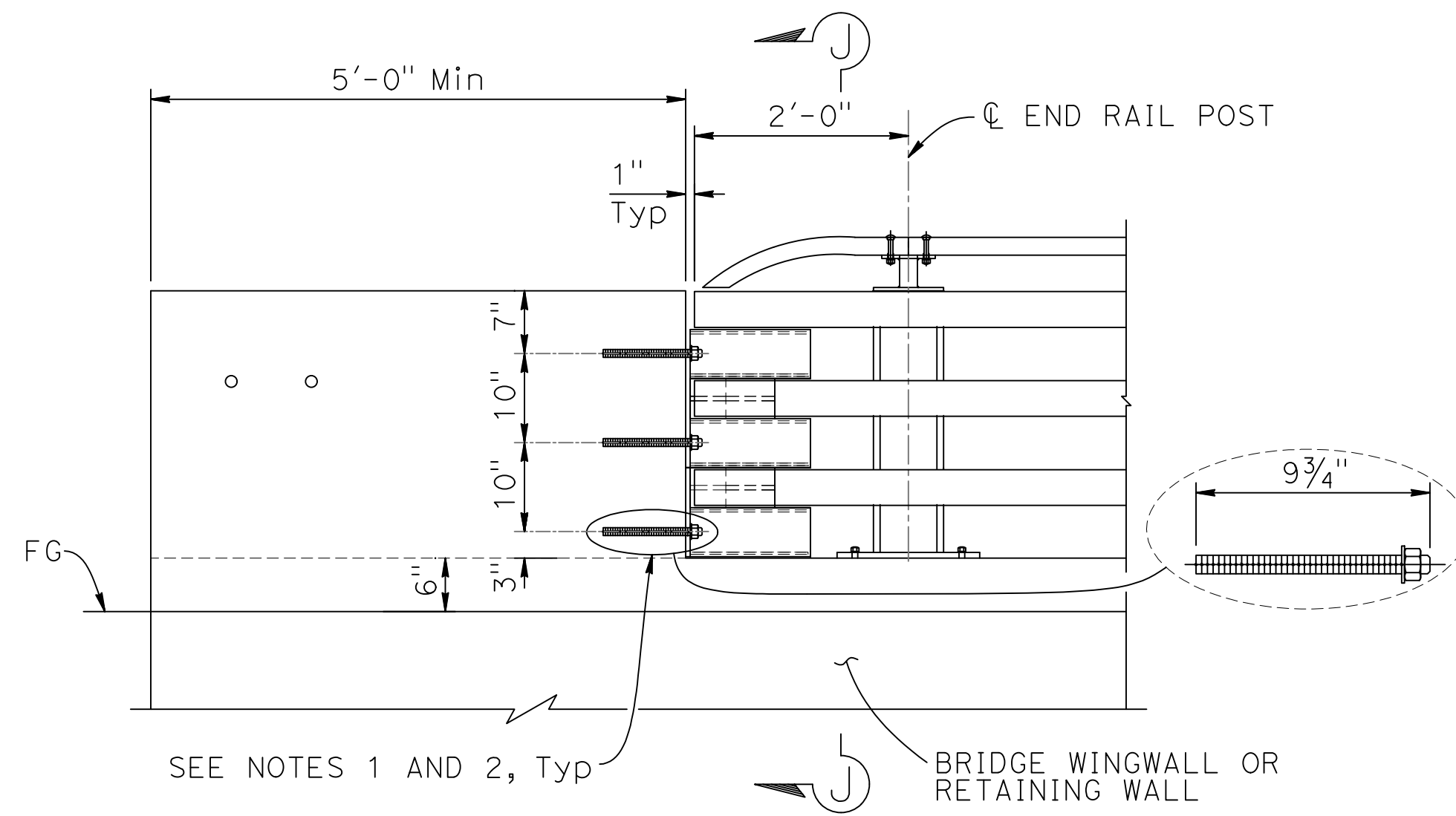


FILE => 11-0015-r-rspxs16-116-4

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET	OF
	12/21/13 06/20/22 01/05/22	12	17

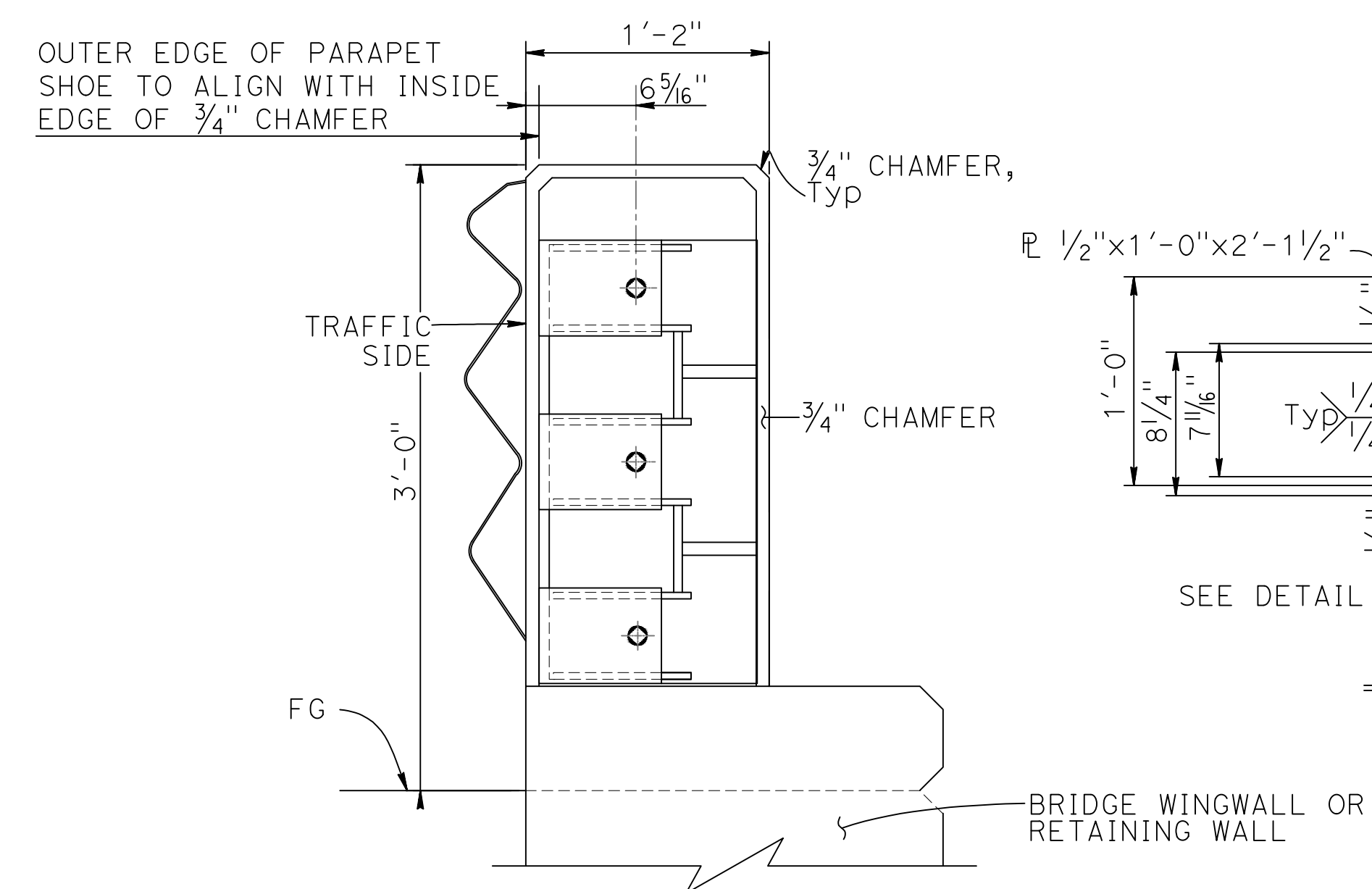
2022 STANDARD PLAN XS-16-116-4 DATE PLOTTED => 05/31/2023 11:01:41 AM USERNAME => KEVIN

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Glenn	CR 67	NA	31	35
				05-31-23 DATE May 31, 2023 PLANS APPROVAL DATE	



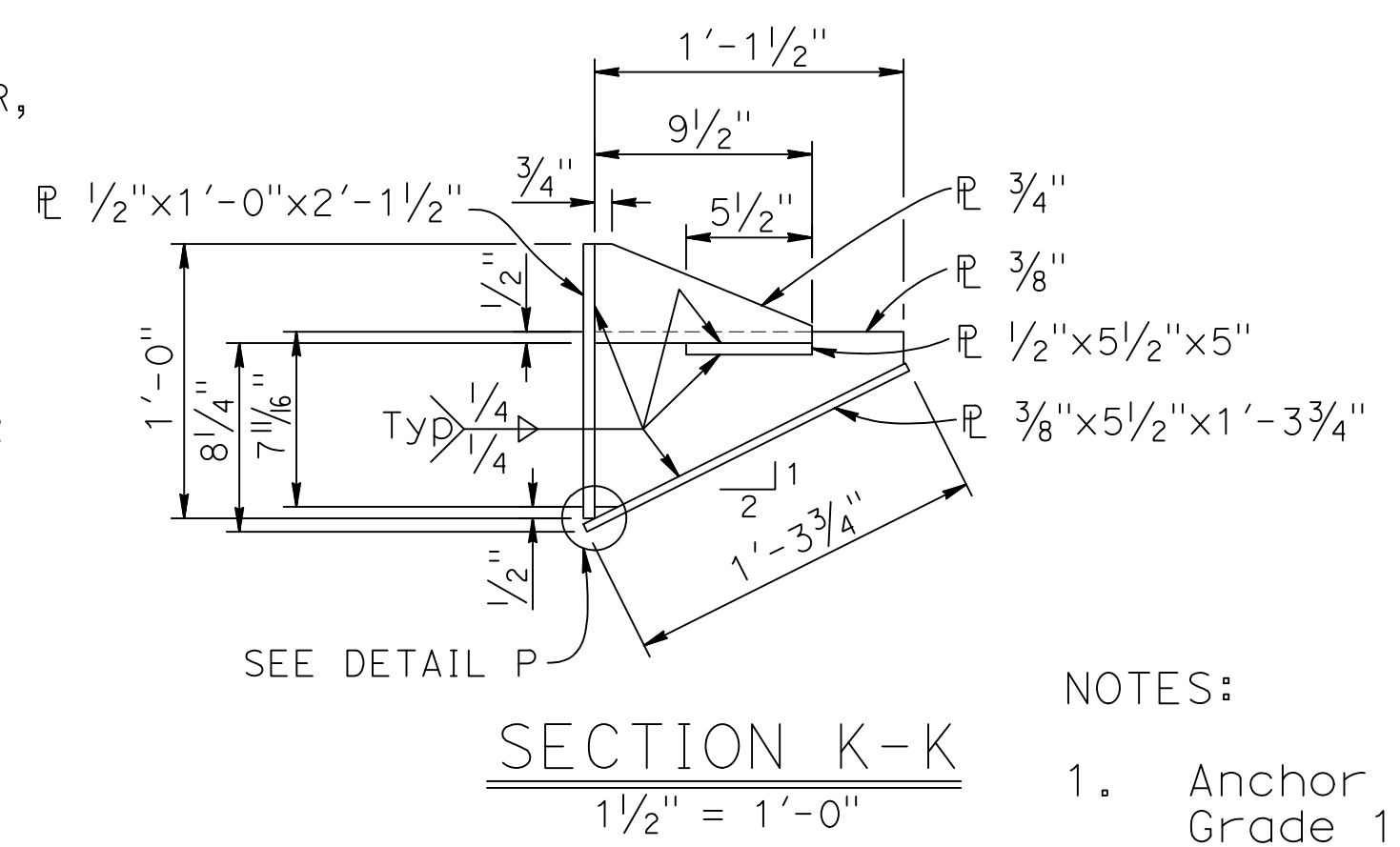
PARAPET SHOE AT DEPARTURE END BLOCK

NOTE: Parapet shoe connection to approach end block is similar.
 $\frac{3}{4}'' = 1'-0''$



SECTION J-J

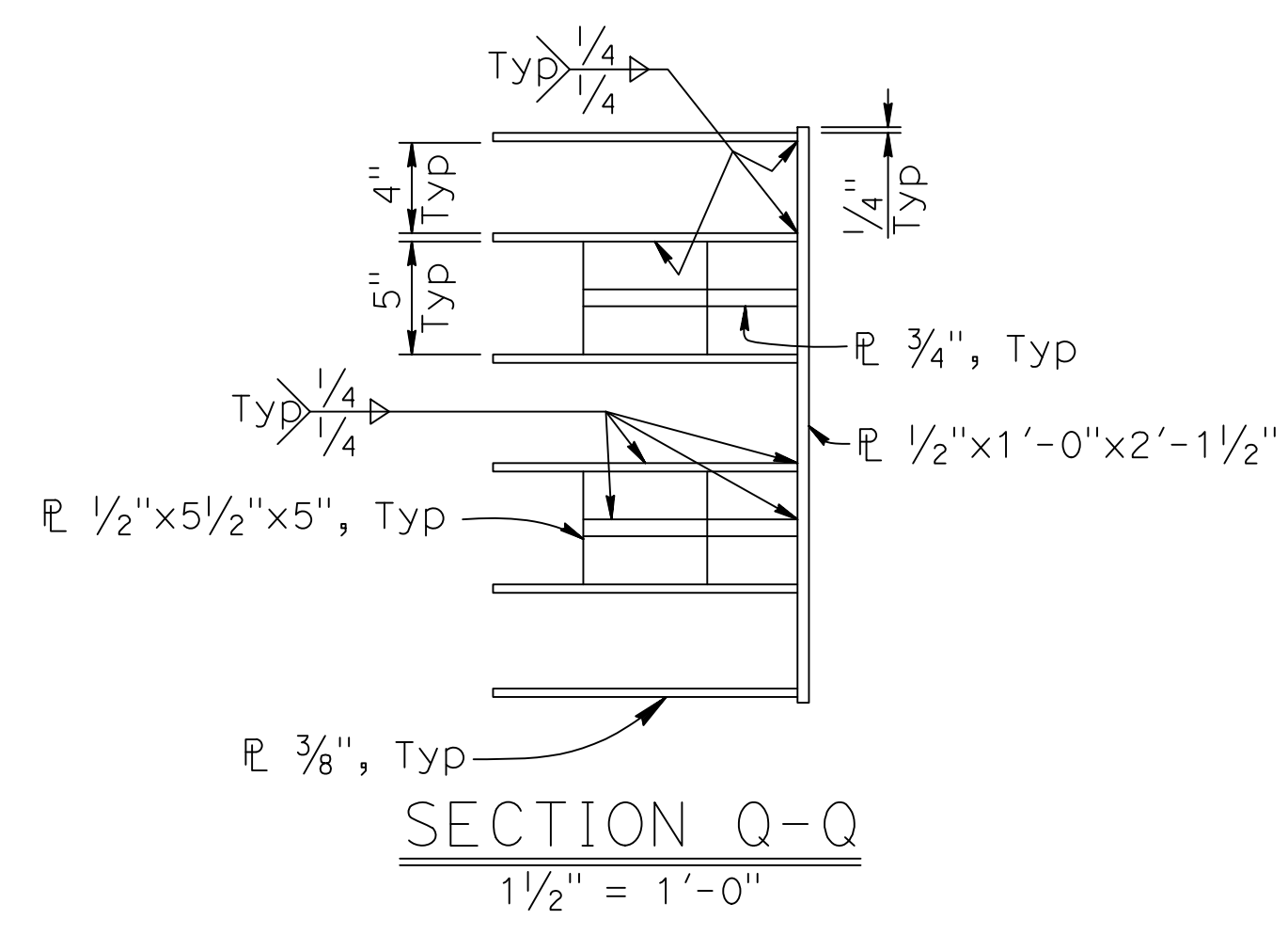
NOTE: Bridge railing not shown clarity.
 $\frac{3}{4}'' = 1'-0''$



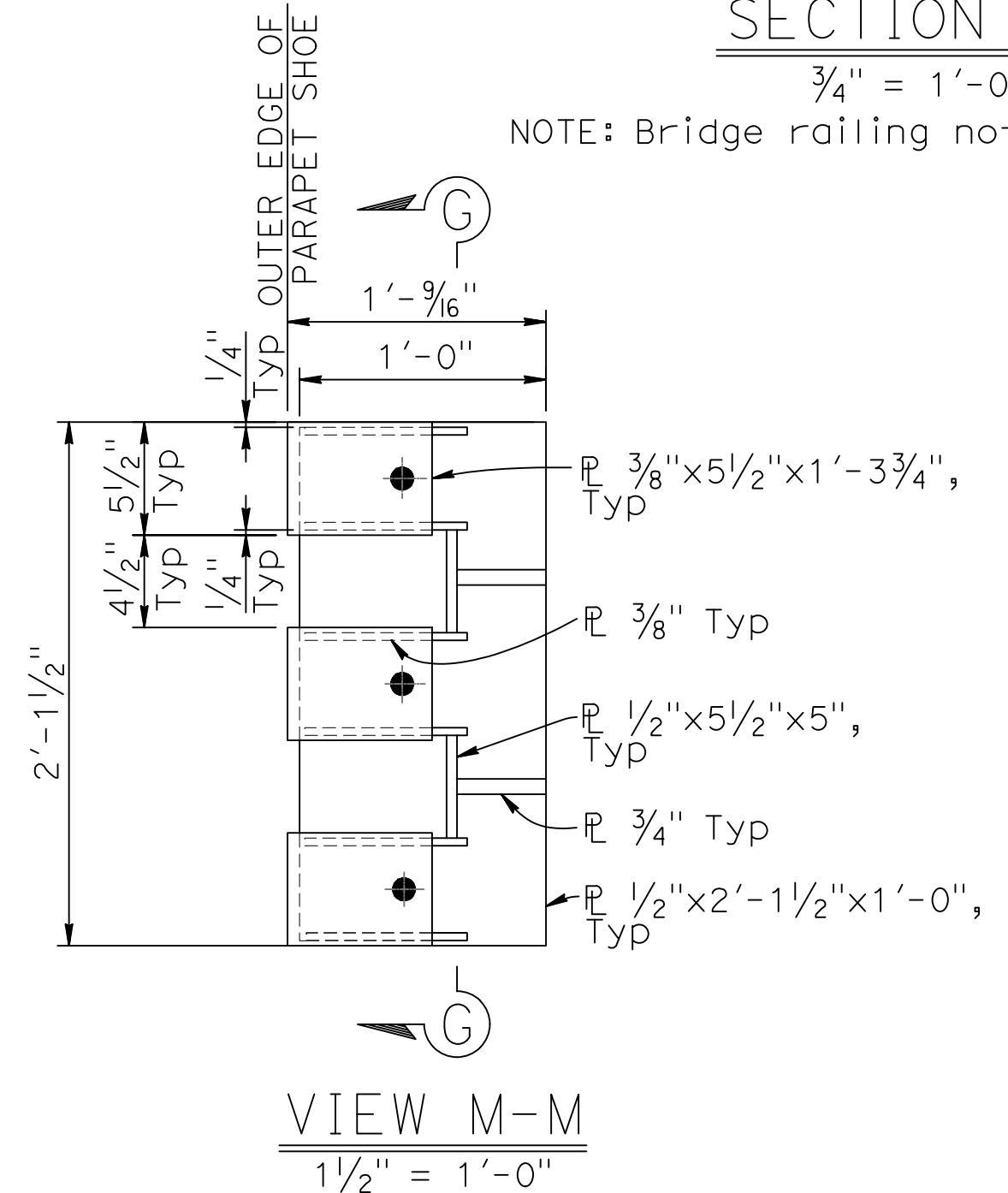
SECTION K-K

NOTES:

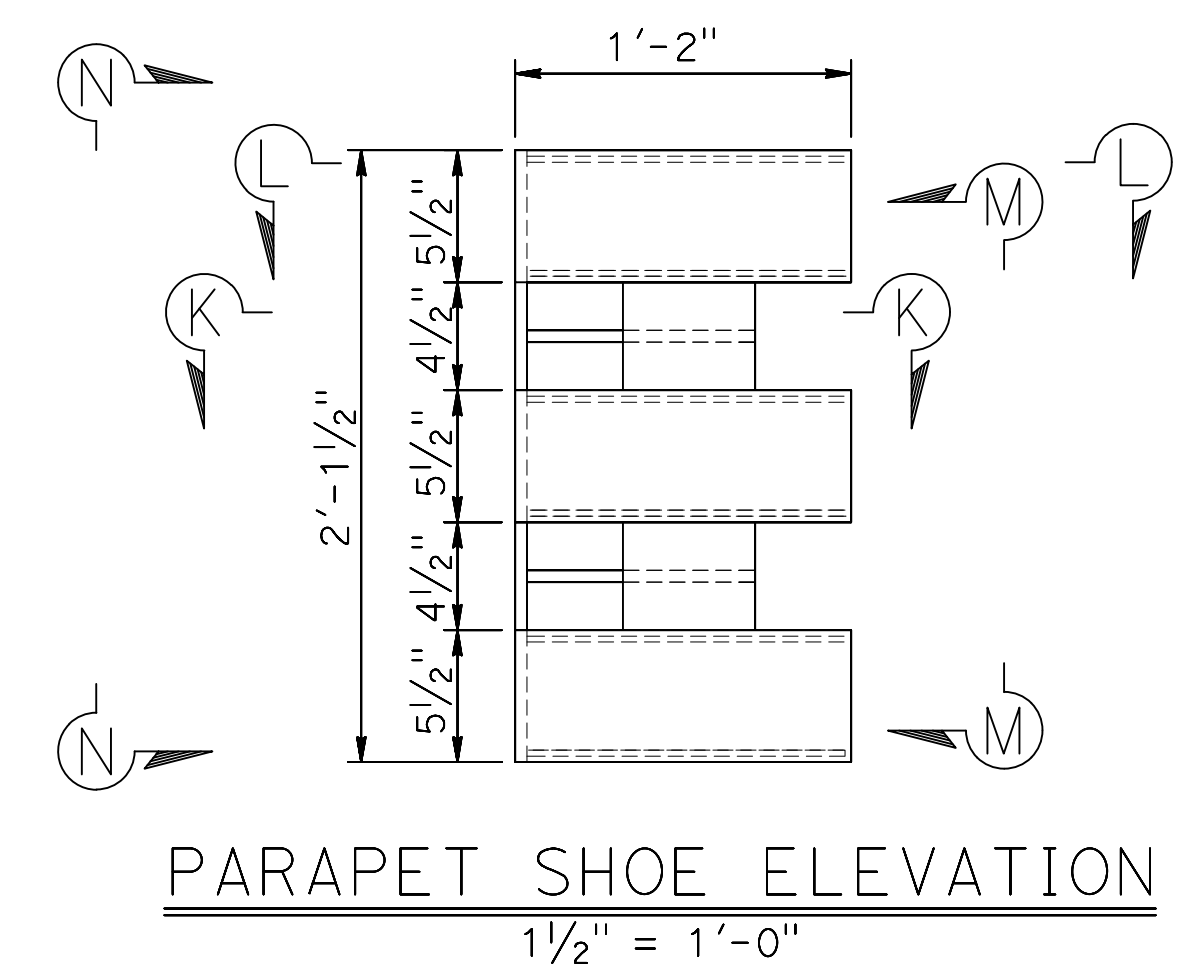
- Anchor bolts must be $\frac{7}{8}''$ Dia and ASTM F1554 Grade 105 fully threaded rods with heavy hex nut and one hardened washer ($1\frac{3}{4}''$ OD) each. Embed threaded rods 8" into concrete anchor block with DRILL AND BOND (CHEMICAL ADHESIVE) anchorage system.
- DRILL AND BOND (CHEMICAL ADHESIVE) anchorages is subjected to approval of Engineer. Installation procedure must comply with manufacturer's instructions.



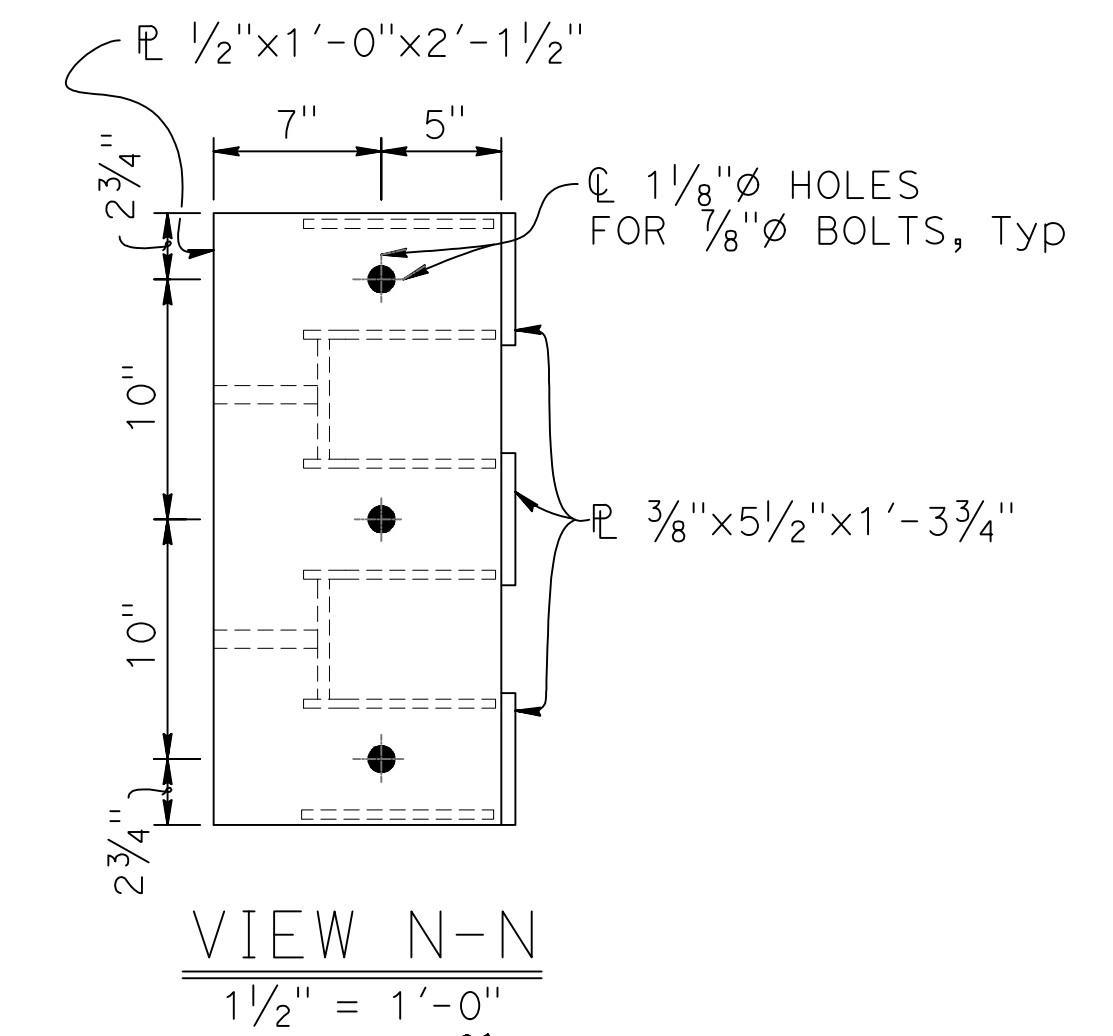
SECTION Q-Q



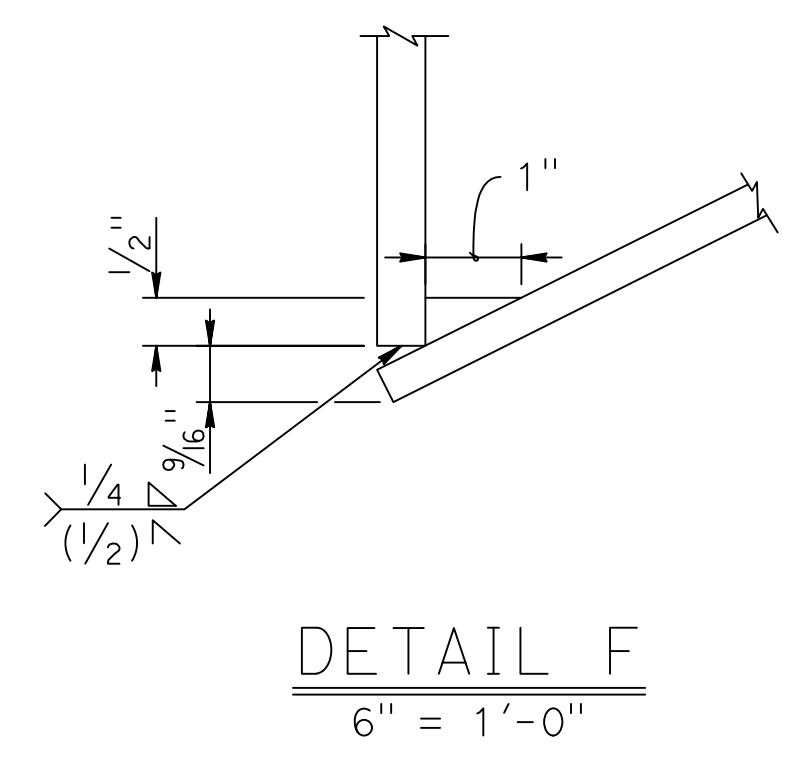
VIEW M-M



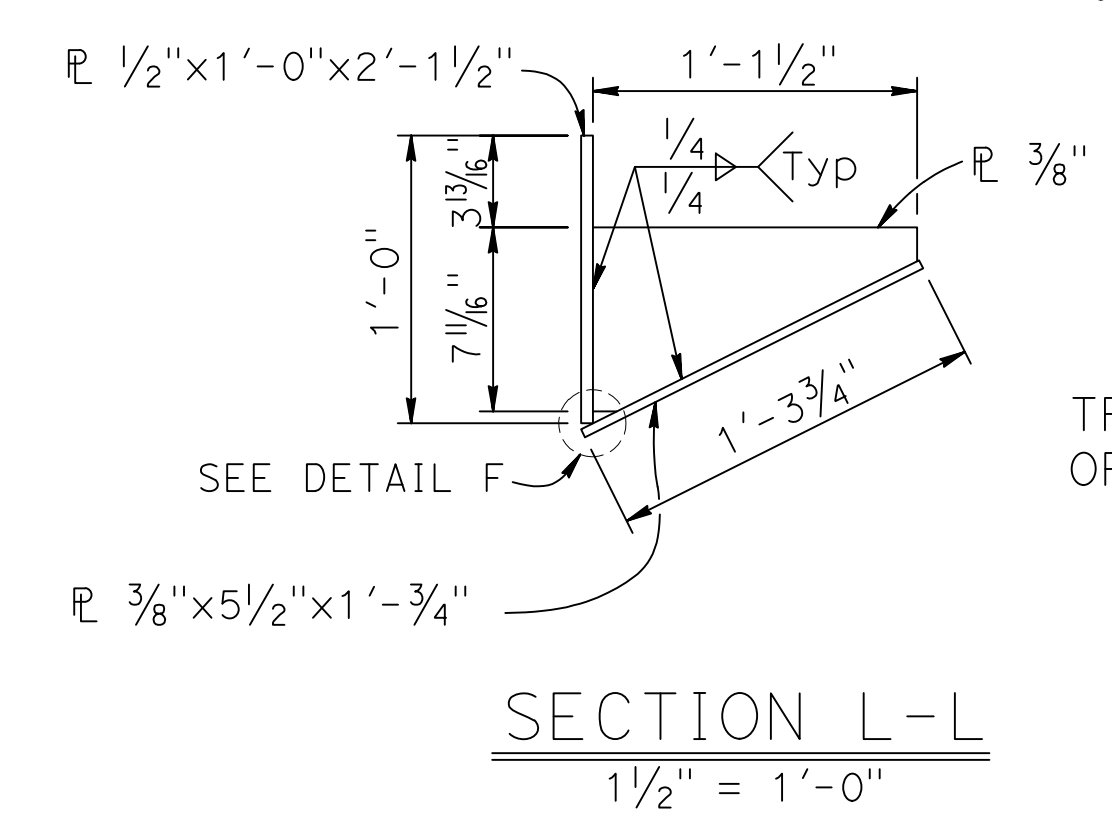
PARAPET SHOE ELEVATION



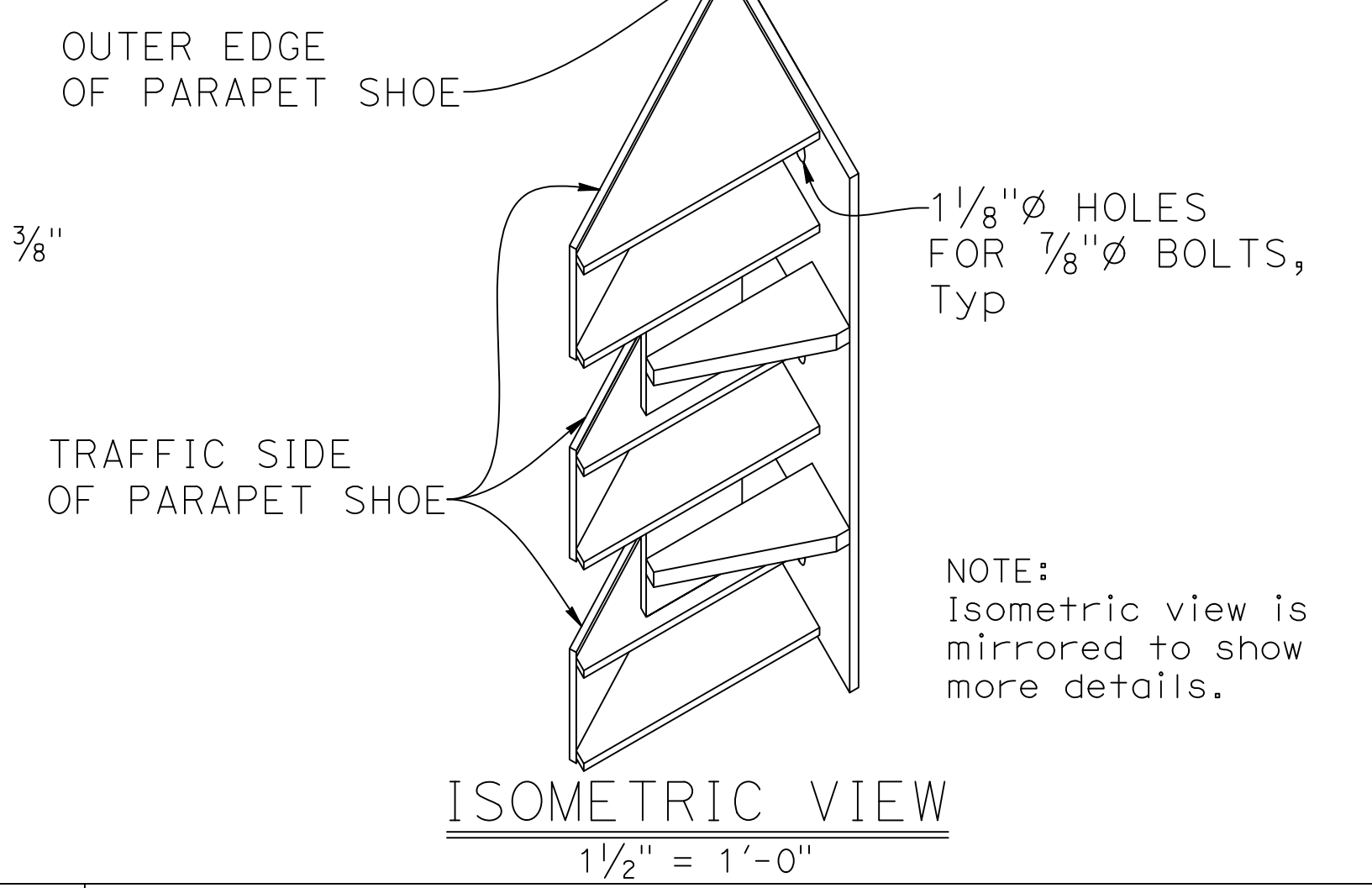
VIEW N-N



DETAIL F



SECTION L-L



ISOMETRIC VIEW

BRIDGE STANDARD DETAILS xs16-116-5 FILE NO.			JULY 2022 APPROVAL DATE			<i>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</i>			DESIGN BY K. COOK-GUTERIEZ			CHECKED G. GORDON			PREPARED FOR COUNTY OF GLENN PUBLIC WORKS AGENCY			BRIDGE NO. 11C0015			BRANCH HOWARD SLOUGH BRIDGE (REPLACE)		
Refer to: http://www.dot.ca.gov/hq/esc/techpubs/manual/bridgemanuals/bridge-standard-detail-sheets/index.html			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3			G. GORDON PROJECT ENGINEER			POST MILES NA			CALIFORNIA ST-75 BRIDGE RAIL DETAILS No. 5								
									REVISION DATES 12/18/19 06/28/22 01/05/22			SHEET OF 13 17											

2022 STANDARD PLAN XS-16-116-5 DATE PLOTTED => 05/31/2023 USERNAME => KEVIN

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Glenn	CR 67	NA	32	35

ROSS KHIABANI 7/19/13
 GEOTECHNICAL PROFESSIONAL DATE

June 14, 2018
 PLANS APPROVAL DATE

ROSS KHIABANI
 No. GE2202
 Exp. 6/30/20
 GEOTECHNICAL
 STATE OF CALIFORNIA

Prepared by:
 WILLDAN ENGINEERING
 1515 SOUTH SUNKIST STREET, SUITE E
 ANAHEIM, CALIFORNIA 92806

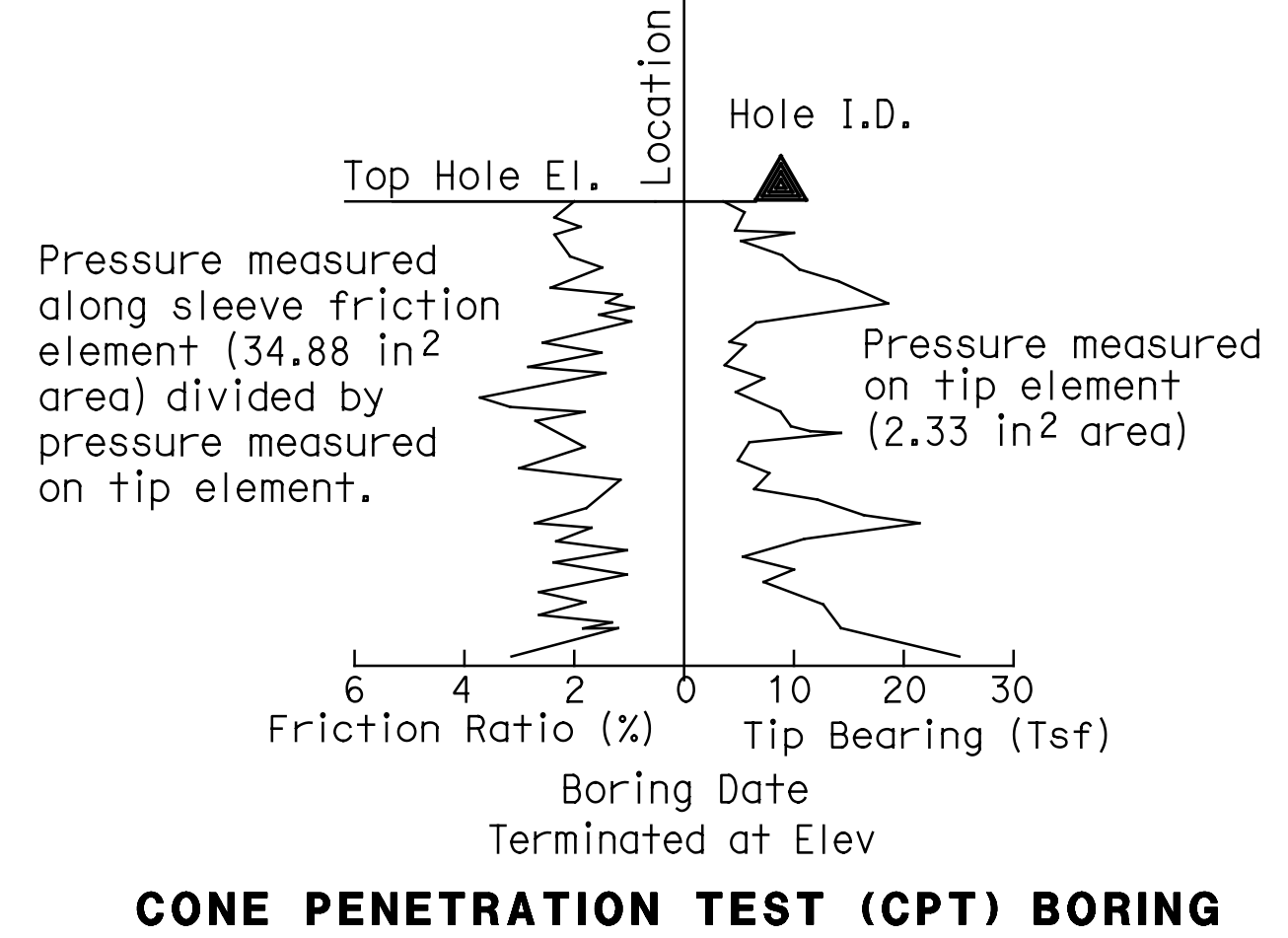
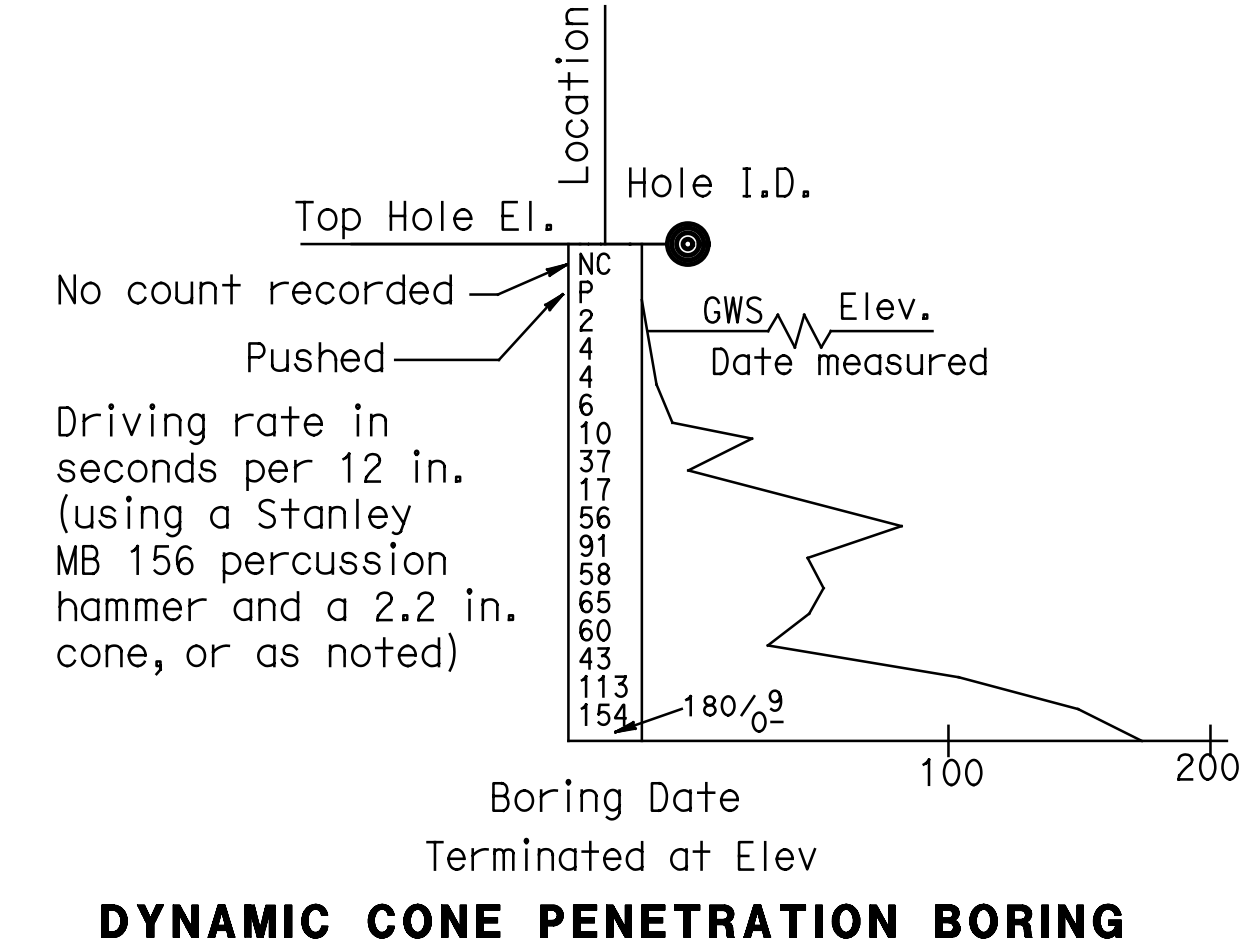
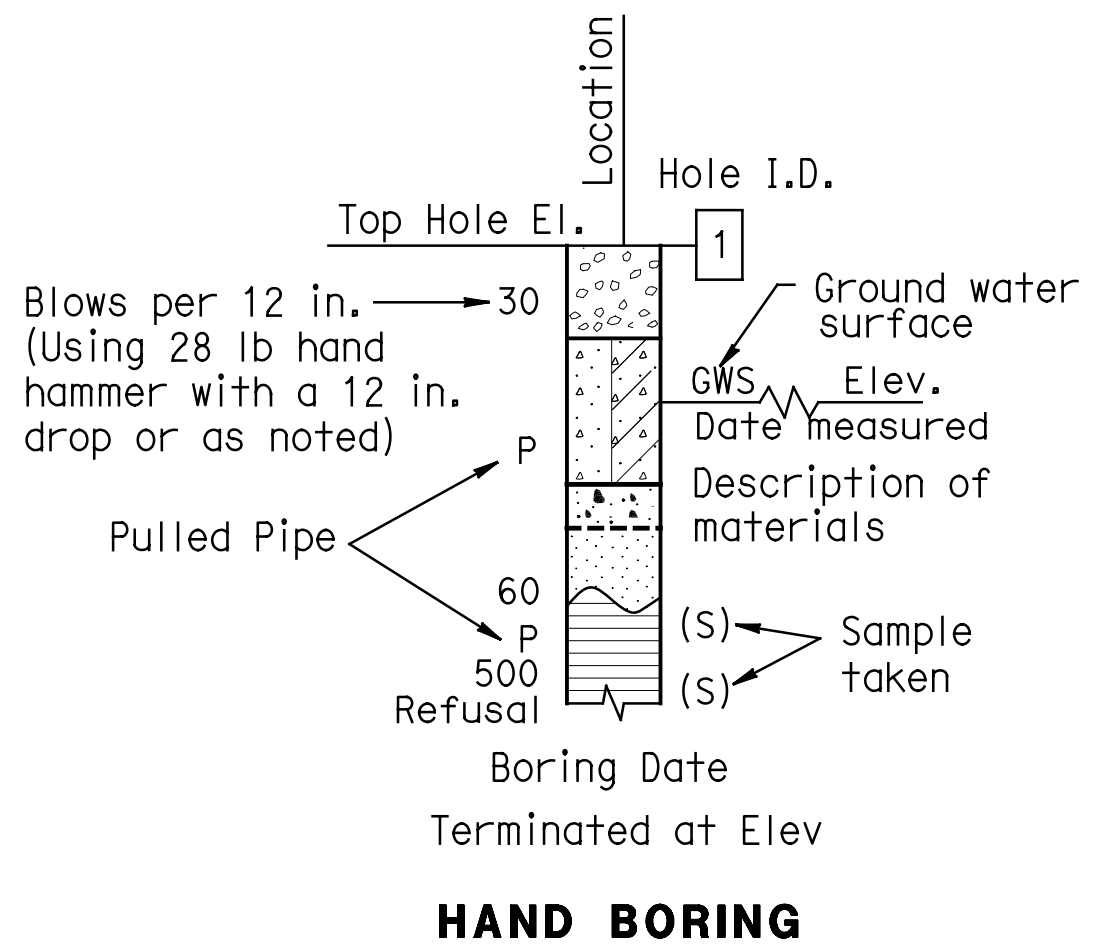
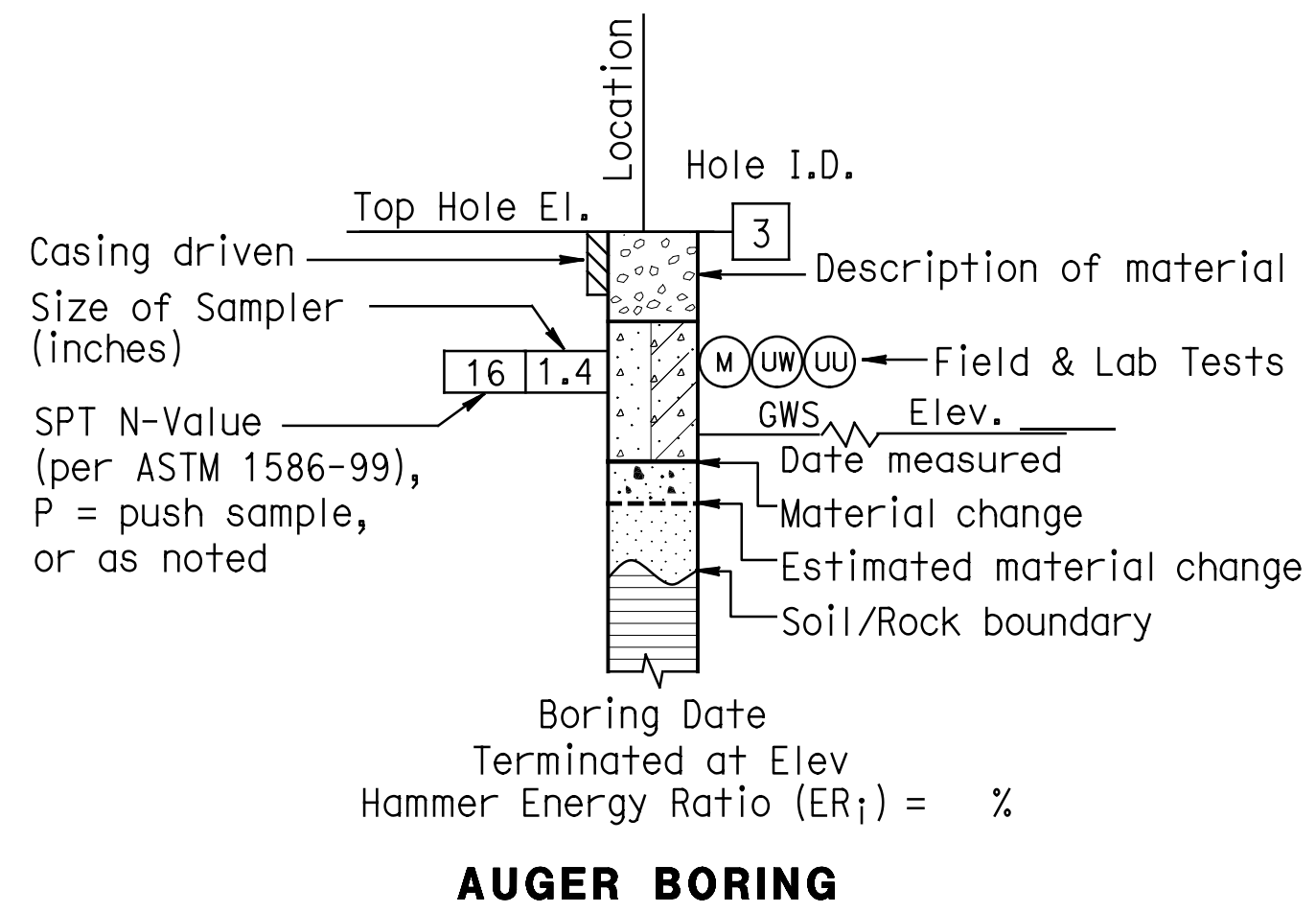
CEMENTATION	
Description	Criteria
Weak	Crumbles or breaks with handling or little finger pressure.
Moderate	Crumbles or breaks with considerable finger pressure.
Strong	Will not crumble or break with finger pressure.

CONSISTENCY OF COHESIVE SOILS				
Description	Unconfined Compressive Strength (tsf)	Pocket Penetrometer Measurement (tsf)	Torvane Measurement (tsf)	Field Approximation
Very Soft	< 0.25	< 0.25	< 0.12	Easily penetrated several inches by fist
Soft	0.25 to 0.50	0.25 to 0.50	0.12 to 0.25	Easily penetrated several inches by thumb
Medium Stiff	0.50 to 1.0	0.50 to 1.0	0.25 to 0.50	Penetrated several inches by thumb with moderate effort
Stiff	1 to 2	1 to 2	0.50 to 1.0	Readily indented by thumb but penetrated only with great effort
Very Stiff	2 to 4	2 to 4	1.0 to 2.0	Readily indented by thumbnail
Hard	> 4.0	> 4.0	> 2.0	Indented by thumbnail with difficulty

BOREHOLE IDENTIFICATION		
Symbol	Hole Type	Description
	A	Auger Boring
	R	Rotary drilled boring
	P	Rotary percussion boring (air)
	R	Rotary drilled diamond core
	HD	Hand driven (1-inch soil tube)
	HA	Hand Auger
	D	Dynamic Cone Penetration Boring
	CPT	Cone Penetration Test (ASTM D 5778-95)
	O	Other

Note: Size in inches.

PLASTICITY OF FINE-GRAINED SOILS	
Description	Criteria
Nonplastic	A 1/8-inch thread cannot be rolled at any water content.
Low	The thread can barely be rolled and the lump cannot be formed when drier than the plastic limit.
Medium	The thread is easy to roll and not much time is required to reach the plastic limit. The thread cannot be rerolled after reaching the plastic limit. The lump crumbles when drier than the plastic limit.
High	It takes considerable time rolling and kneading to reach the plastic limit. The thread can be rerolled several times after reaching the plastic limit. The lump can be formed without crumbling when drier than the plastic limit.



DRAWN BY	S. McCracken	B. KILLEEN
CHECKED BY	R. KHIABANI	FIELD INVESTIGATION BY:
		DATE: X

BRIDGE NO.	11C0015
POST MILES	NA
PREPARED FOR COUNTY OF GLENN PUBLIC WORKS AGENCY	
G. GORDON PROJECT ENGINEER	

BRANCH HOWARD SLOUGH BRIDGE (REPLACE)	
SOIL LEGEND 1 OF 2	


 7/19/13
 GEOTECHNICAL PROFESSIONAL DATE
June 14, 2018
 PLANS APPROVAL DATE

Prepared by:
 WILLDAN ENGINEERING
 1515 SOUTH SUNKIST STREET, SUITE E
 ANAHEIM, CALIFORNIA 92806

GROUP SYMBOLS AND NAMES			
Graphic/Symbol	Group Names	Graphic/Symbol	Group Names
	Well-graded GRAVEL		Lean CLAY
	Well-graded GRAVEL with SAND		Lean CLAY with SAND
	Poorly-graded GRAVEL		Lean CLAY with GRAVEL
	Poorly-graded GRAVEL with SAND		SANDY lean CLAY
	Well-graded GRAVEL with SILT		SANDY lean CLAY with GRAVEL
	Well-graded GRAVEL with SILT and SAND		GRAVELLY lean CLAY
	Well-graded GRAVEL with CLAY (or SILTY CLAY)		GRAVELLY lean CLAY with SAND
	Well-graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND)		SILTY CLAY
	Poorly-graded GRAVEL with SILT		SILTY CLAY with SAND
	Poorly-graded GRAVEL with SILT and SAND		SILTY CLAY with GRAVEL
	Poorly-graded GRAVEL with CLAY (or SILTY CLAY)		SANDY SILTY CLAY
	Poorly-graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND)		SANDY SILTY CLAY with GRAVEL
	SILTY GRAVEL		GRAVELLY SILTY CLAY
	SILTY GRAVEL with SAND		GRAVELLY SILTY CLAY with SAND
	CLAYEY GRAVEL		SILT
	CLAYEY GRAVEL with SAND		SILT with SAND
	SILTY, CLAYEY GRAVEL		SILT with GRAVEL
	SILTY, CLAYEY GRAVEL with SAND		SANDY SILT
	Well-graded SAND		SANDY SILT with GRAVEL
	Well-graded SAND with GRAVEL		GRAVELLY SILT
	Poorly-graded SAND		GRAVELLY SILT with SAND
	Poorly-graded SAND with GRAVEL		Fat CLAY
	Well-graded SAND with SILT		Fat CLAY with SAND
	Well-graded SAND with SILT and GRAVEL		Fat CLAY with GRAVEL
	Well-graded SAND with CLAY (or SILTY CLAY)		SANDY fat CLAY
	Well-graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL)		SANDY fat CLAY with GRAVEL
	Poorly-graded SAND with SILT		GRAVELLY fat CLAY
	Poorly-graded SAND with SILT and GRAVEL		GRAVELLY fat CLAY with SAND
	Poorly-graded SAND with CLAY (or SILTY CLAY)		Elastic SILT
	Poorly-graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL)		Elastic SILT with SAND
	SILTY SAND		Elastic SILT with GRAVEL
	SILTY SAND with GRAVEL		SANDY elastic SILT
	CLAYEY SAND		SANDY elastic SILT with GRAVEL
	CLAYEY SAND with GRAVEL		GRAVELLY elastic SILT
	SILTY, CLAYEY SAND		GRAVELLY elastic SILT with SAND
	SILTY, CLAYEY SAND with GRAVEL		ORGANIC fat CLAY
	PEAT		ORGANIC fat CLAY with SAND
	COBBLES		ORGANIC fat CLAY with GRAVEL
	COBBLES and BOULDERS		SANDY ORGANIC fat CLAY
	BOULDERS		SANDY ORGANIC fat CLAY with GRAVEL
			GRAVELLY ORGANIC fat CLAY
			GRAVELLY ORGANIC fat CLAY with SAND
			ORGANIC elastic SILT
			ORGANIC elastic SILT with SAND
			ORGANIC elastic SILT with GRAVEL
			SANDY ORGANIC elastic SILT
			SANDY ORGANIC elastic SILT with GRAVEL
			GRAVELLY ORGANIC elastic SILT
			GRAVELLY ORGANIC elastic SILT with SAND
			ORGANIC SOIL
			ORGANIC SOIL with SAND
			ORGANIC SOIL with GRAVEL
			SANDY ORGANIC SOIL
			SANDY ORGANIC SOIL with GRAVEL
			GRAVELLY ORGANIC SOIL
			GRAVELLY ORGANIC SOIL with SAND

- ### FIELD AND LABORATORY TESTING
- (C) Collapse Potential (ASTM D 5333)
 - (CL) Compaction Curve (CTM 216)
 - (CP) Corrosivity Testing (CTM 643, CTM 422, CTM 417)
 - (CR) Consolidated Undrained Triaxial (ASTM D 4767)
 - (CU) Direct Shear (ASTM D 3080)
 - (DS) Expansion Index (ASTM D 4829)
 - (EI) Moisture Content (ASTM D 2216)
 - (M) Organic Content-% (ASTM D 2974)
 - (OC) Permeability (CTM 220)
 - (P) Particle Size Analysis (ASTM D 422)
 - (PA) Plasticity Index (AASHTO T 90) Liquid Limit (AASHTO T 89)
 - (PI) Point Load Index (ASTM D 5731)
 - (PL) Pressure Meter
 - (PM) Passing # 200 (ASTM D 1140-00)
 - (R) R-Value (CTM 301)
 - (SE) Sand Equivalent (CTM 217)
 - (SG) Specific Gravity (AASHTO T 100)
 - (SL) Shrinkage Limit (ASTM D 427)
 - (SW) Swell Potential (ASTM D 4546)
 - (TV) Pocket Torvane
 - (UC) Unconfined Compression-Soil (ASTM D 2166)
 - (UC) Unconfined Compression-Rock (ASTM D 2938)
 - (UU) Unconsolidated Undrained Triaxial (ASTM D 2850)
 - (UW) Unit Weight (ASTM D 4767)
 - (VS) Vane Shear (AASHTO T 223)

APPARENT DENSITY OF COHESIONLESS SOILS

Description	SPT N ₆₀ (Blows / 12 in.)
Very Loose	0 - 4
Loose	5 - 10
Medium Dense	11 - 31
Dense	30 - 50
Very Dense	> 50

MOISTURE

Description	Criteria
Dry	Absence of moisture, dusty, dry to the touch
Moist	Damp but no visible water
Wet	Visible free water, usually soil is below water table

PERCENT OR PROPORTION OF SOILS

Description	Criteria
Trace	Particles are present but estimated to be less than 5%
Few	5% - 10%
Little	15% - 25%
Some	30% - 45%
Mostly	50% - 100%

PARTICLE SIZE

Description		Size
Boulder		> 12"
Cobble		3" to 12"
Gravel	Coarse	3/4" to 3"
	Fine	No. 4 to 3/4"
Sand	Coarse	No. 10 to No. 4
	Medium	No. 40 to No. 10
	Fine	No. 200 to No. 40
Silt and Clay		Less than 1/300

BENCH MARK

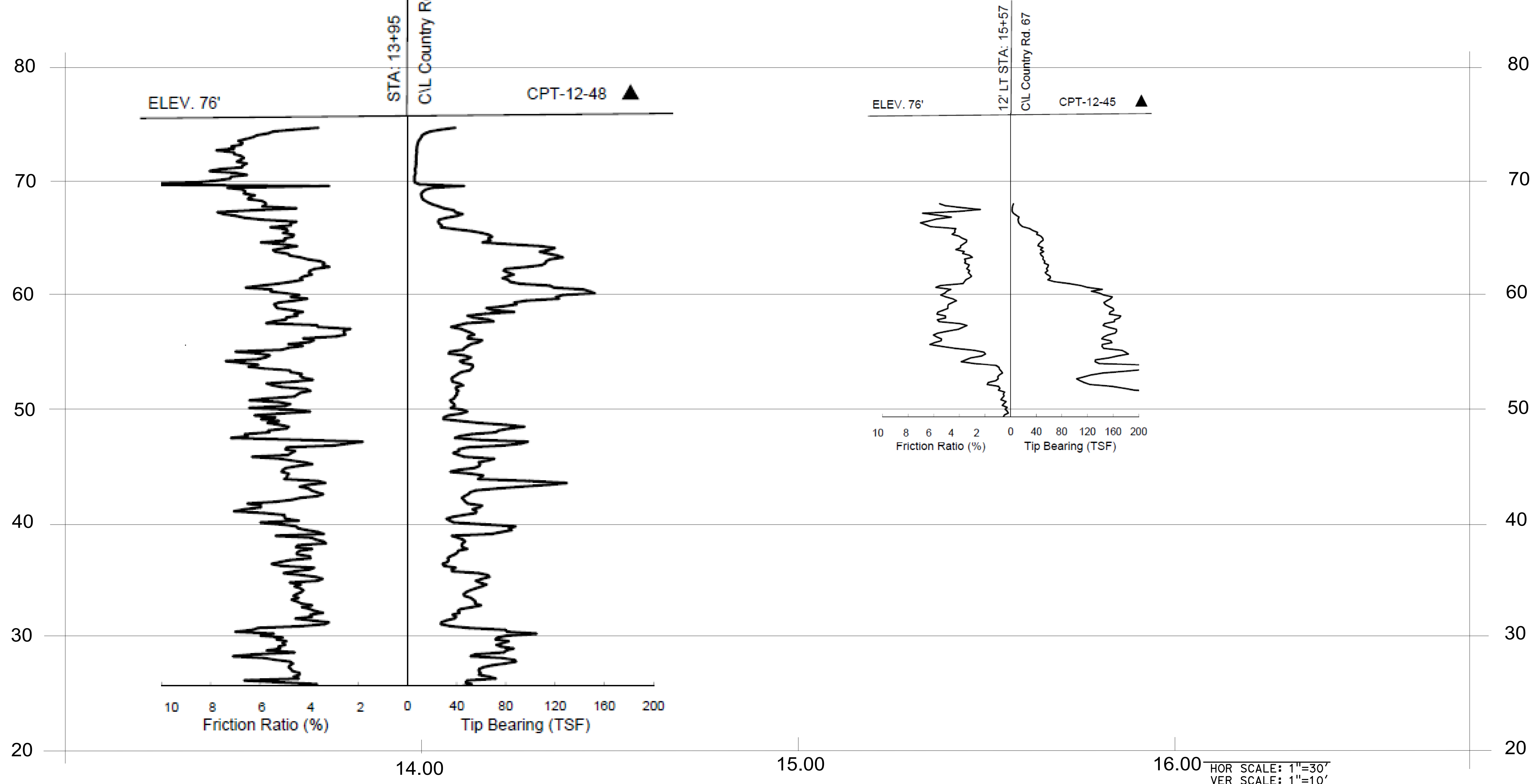
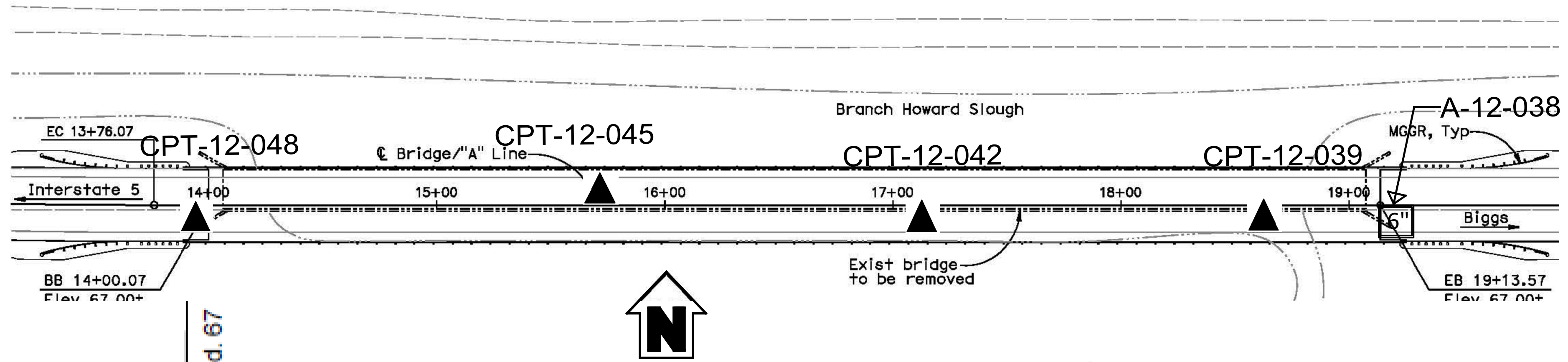
DH3659 Survey Disk in Concrete Wing Wall at the South East Corner of Bridge 11C-0017 along Rd H, ELEV. 74.90
Horizontal Datum is NAD83
Vertical Datum is NAVD88

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Glenn	CR 67	NA	34	35

ROSS KHIABANI 7/19/13
 GEOTECHNICAL PROFESSIONAL DATE
 June 14, 2018
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 ROSS KHIABANI
 No. GE2202
 Exp. 6/30/20
 GEOTECHNICAL
 STATE OF CALIFORNIA

Prepared by:
 WILLDAN ENGINEERING
 1515 SOUTH SUNKIST STREET, SUITE E
 ANAHEIM, CALIFORNIA 92806



HOR SCALE: 1"=30'
 VER SCALE: 1"=10'

DRAWN BY S. McCracken	B. KILLEEN FIELD INVESTIGATION BY: DATE: X	BRIDGE NO. 11C0015	BRANCH HOWARD SLOUGH BRIDGE (REPLACE)
CHECKED BY R. KHIABANI		POST MILES NA	

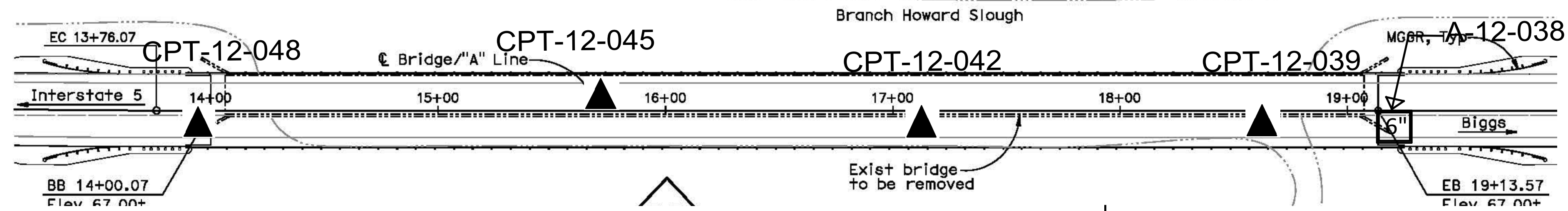
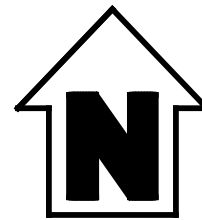
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

REVISION DATES	SHEET	OF
10/12/12	16	17

USERNAME => richard DATE PLOTTED => 6/21/2018 TIME PLOTTED => 3:45:56 PM

BENCH MARK

DH3659 Survey Disk in Concrete Wing Wall at the South East Corner of Bridge 11C-0017 along Rd H, ELEV. 74.90
Horizontal Datum is NAD83
Vertical Datum is NAVD88



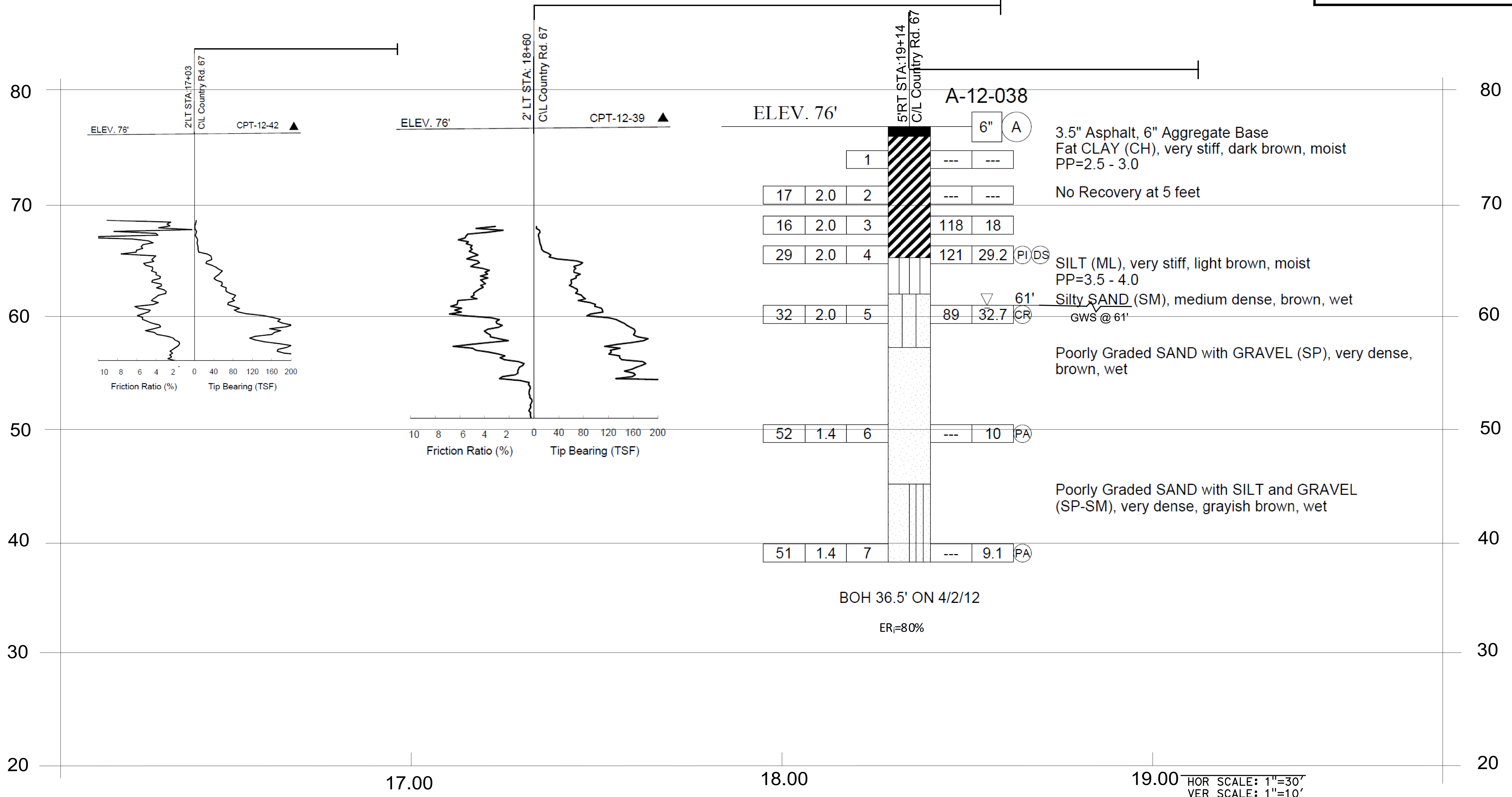
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Glenn	CR 67	NA	35	35

7/19/13
GEOTECHNICAL PROFESSIONAL DATE

June 14, 2018
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ROSS KHIABANI
No. GE2202
Exp. 6/30/20
GEOTECHNICAL
STATE OF CALIFORNIA

Prepared by:
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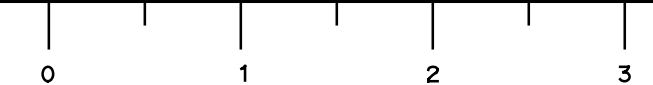


BOH 36.5' ON 4/2/12
ER_i=80%

HOR SCALE: 1"=30'
VER SCALE: 1"=10'

DRAWN BY S. McCracken	B. KILLEEN FIELD INVESTIGATION BY: DATE: X	PREPARED FOR COUNTY OF GLENN PUBLIC WORKS AGENCY	G. GORDON PROJECT ENGINEER	BRIDGE NO. 11C0015 POST MILES NA	BRANCH HOWARD SLOUGH BRIDGE (REPLACE) LOG OF TEST BORINGS 2 OF 2
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



REVISION DATES	SHEET	OF
10/12/12	17	17

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