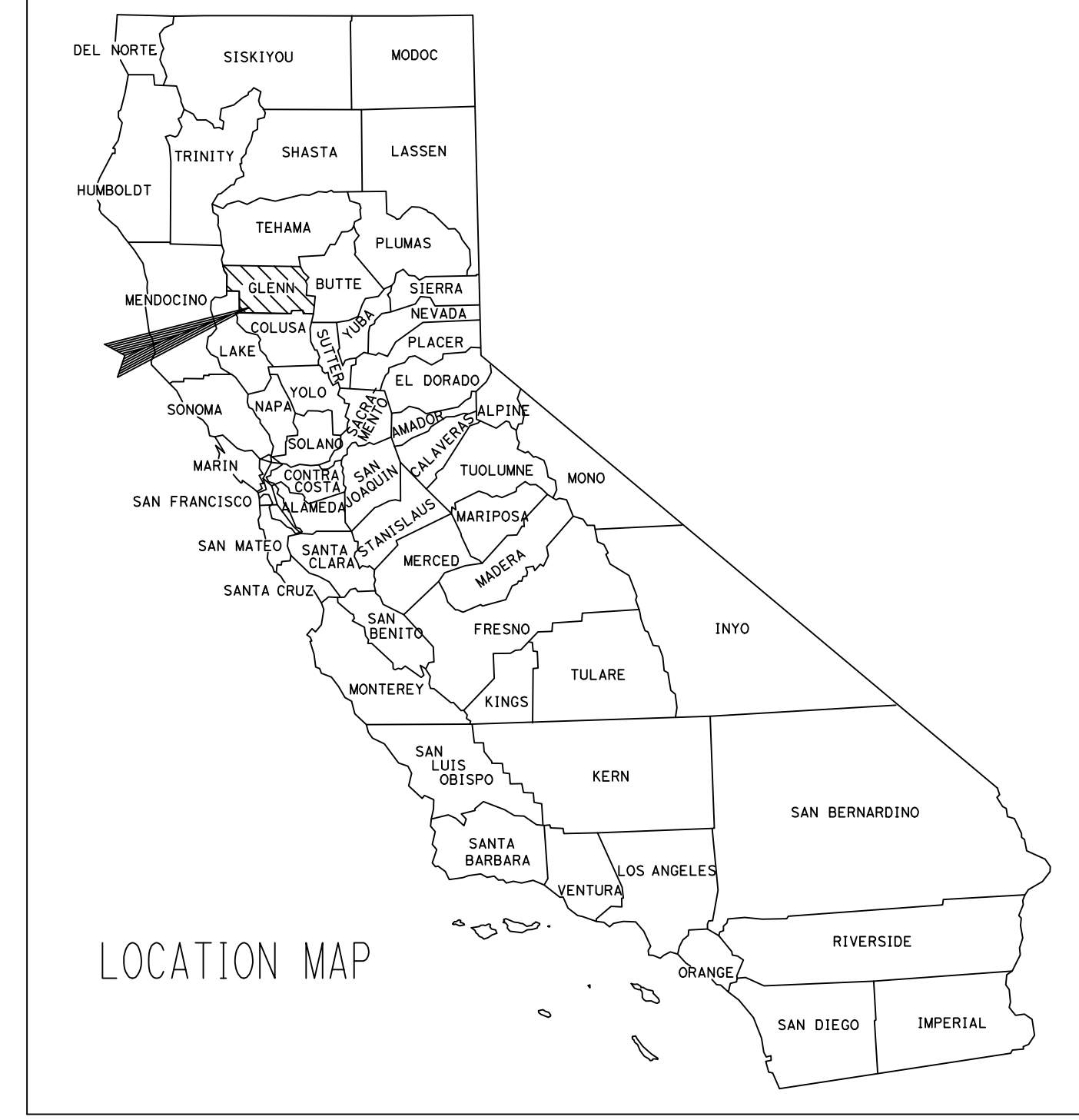


| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 03 | Glenn | CR 67 | N/A | 1 | 33 |



INDEX OF PLANS

SHEET No. DESCRIPTION

1 TITLE AND LOCATION MAP
 2-4 TYPICAL CROSS SECTIONS
 5-6 LAYOUTS
 7 CONSTRUCTION DETAILS
 8-9 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
 19-33 STRUCTURE PLANS

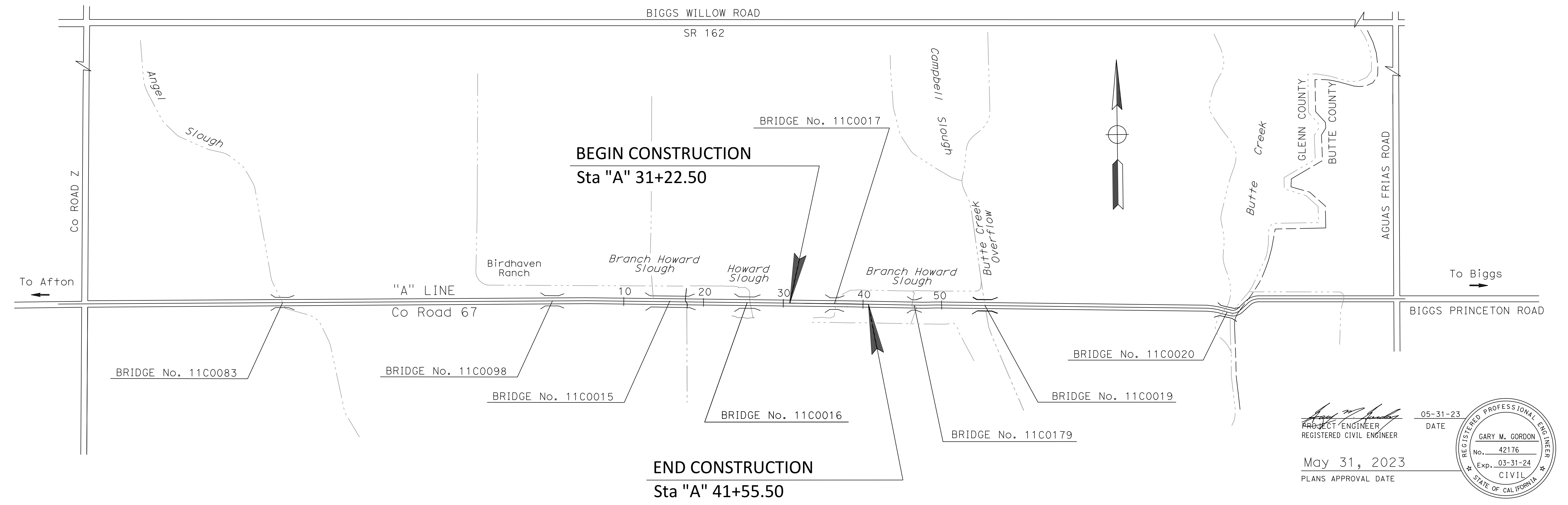
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.


**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 (049)
 STATE BRIDGE No.11C0017**


TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2022




 PROJECT ENGINEER
 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

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

COUNTY OF GLENN:

 Gary M. Gordon, PE
 County Engineer

DATE 05-31-23

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

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

DATE PLOTTED = 5/31/2023 10:10:34 AM
 TIME PLOTTED = 10:10:34 AM
 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

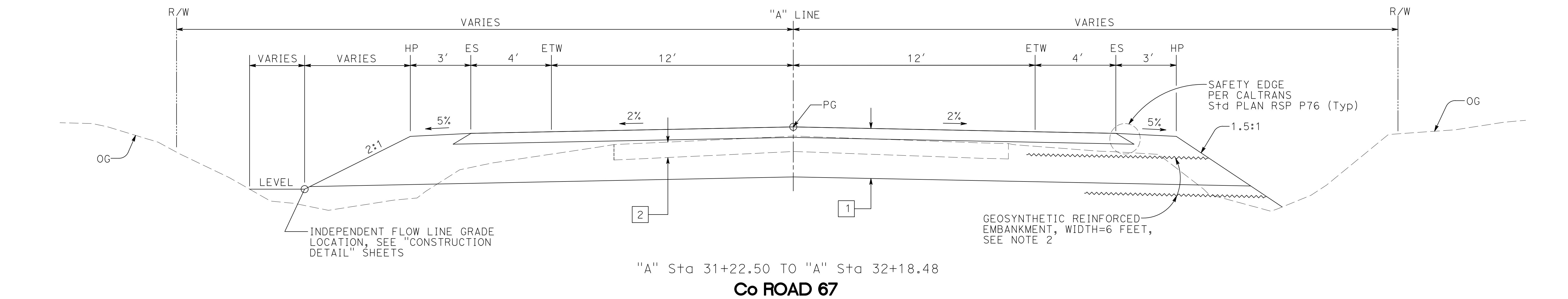
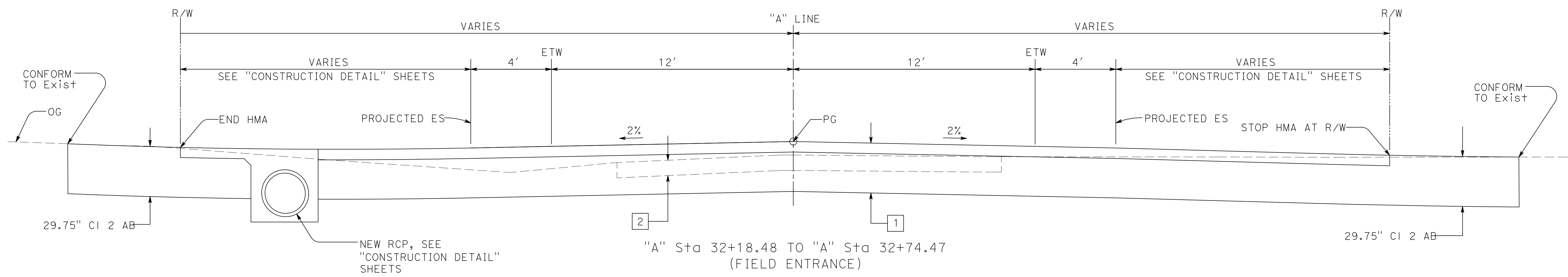
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 03 | Glenn | CR 67 | N/A | 2 | 33 |

05-31-23
 REGISTERED CIVIL ENGINEER DATE
 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

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



TYPICAL CROSS SECTION X-1
 NO SCALE

LAST REVISION DATE PLOTTED => 5/31/2023
 05-31-23 TIME PLOTTED => 10:00:49 AM

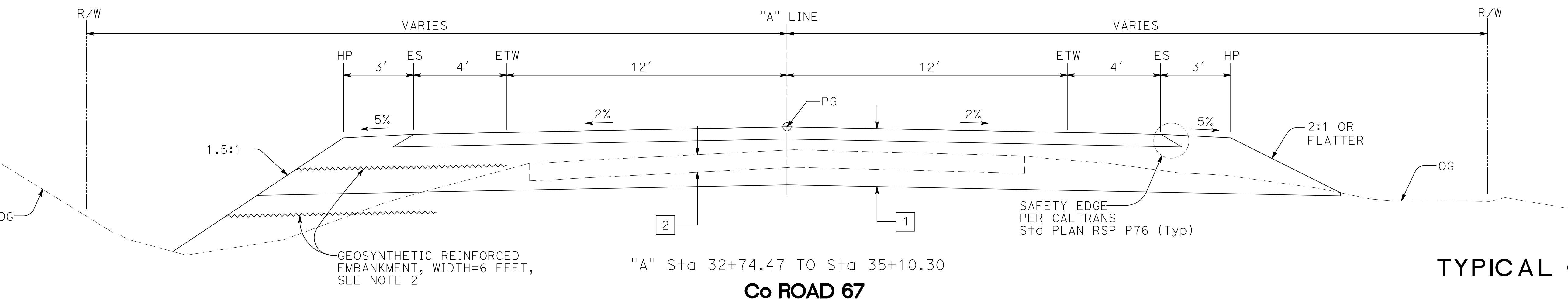
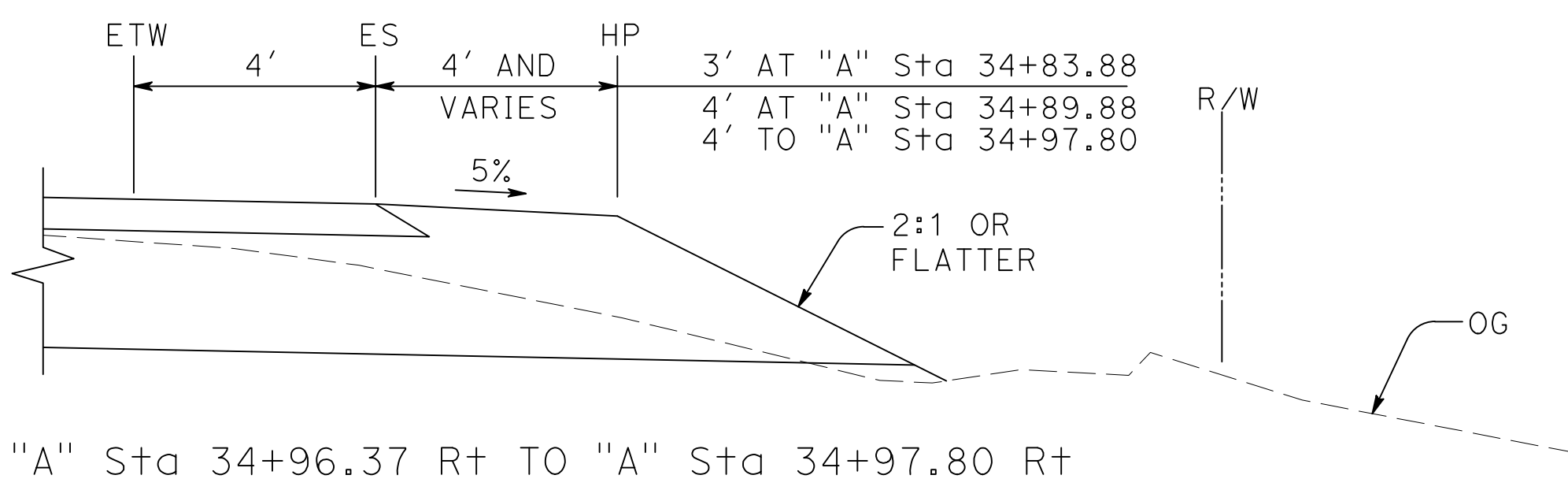
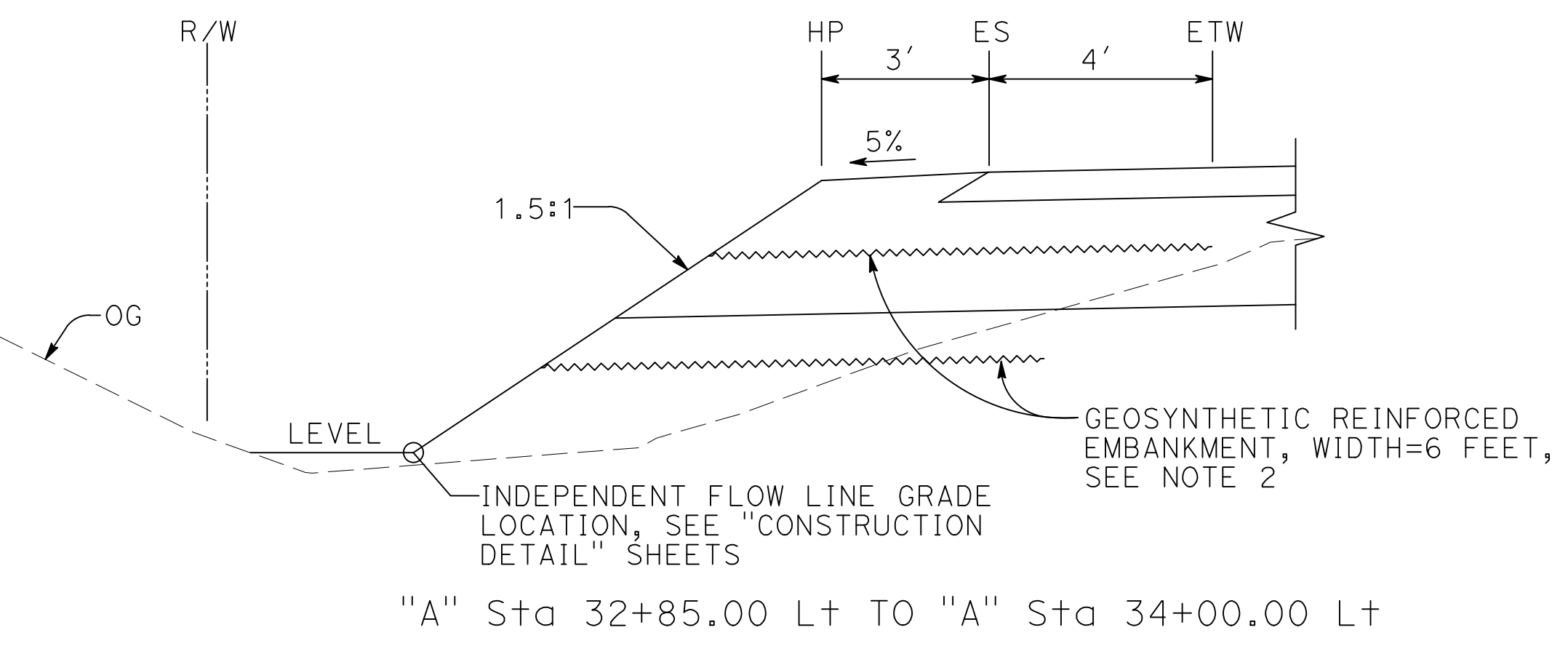
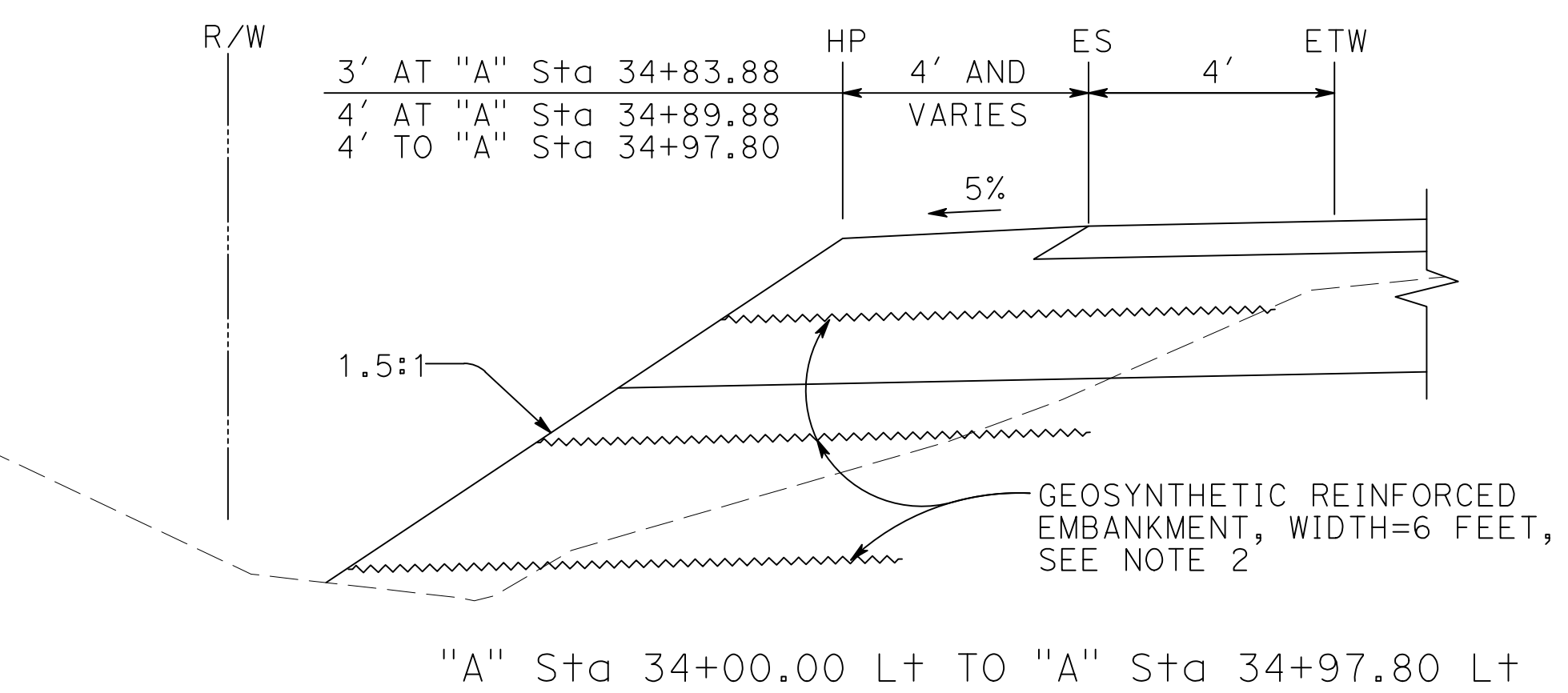
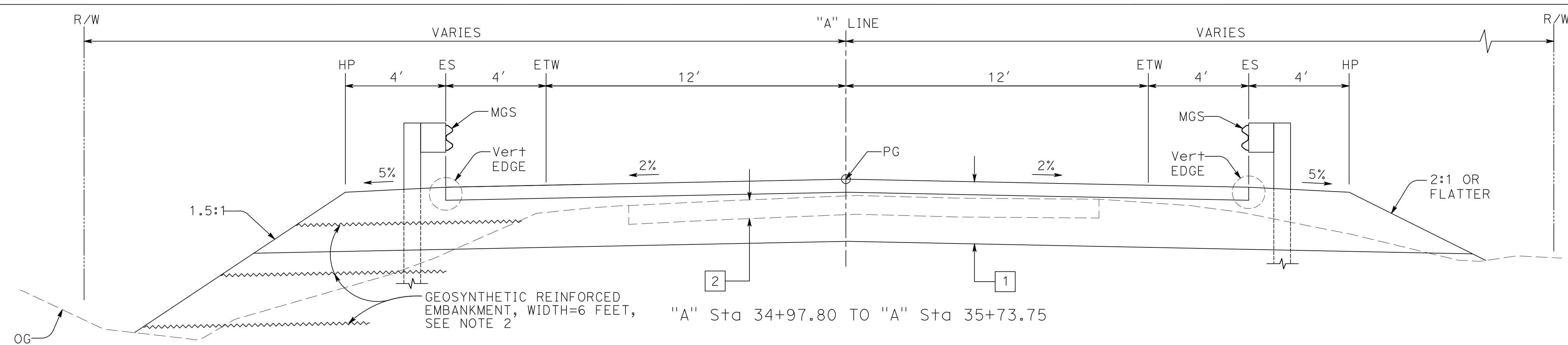
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|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 03 | Gle | CR 67 | N/A | 3 | 33 |

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



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

TYPICAL CROSS SECTION X-2
NO SCALE

| | |
|------------------|----------------|
| KCG | 05-31-23 |
| REVISOR | DATE |
| R. UHLMANN | G. GORDON |
| CALCULATED-DRAWN | CHECKED BY |
| PROJECT ENGINEER | GARY M. GORDON |

LAST REVISION DATE PLOTTED => 5/31/2023
 05-31-23 TIME PLOTTED => 9:53:01 AM

NOTES:

- DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTION) ARE SUBJECT TO THE TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
- 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 | 4 | 33 |

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

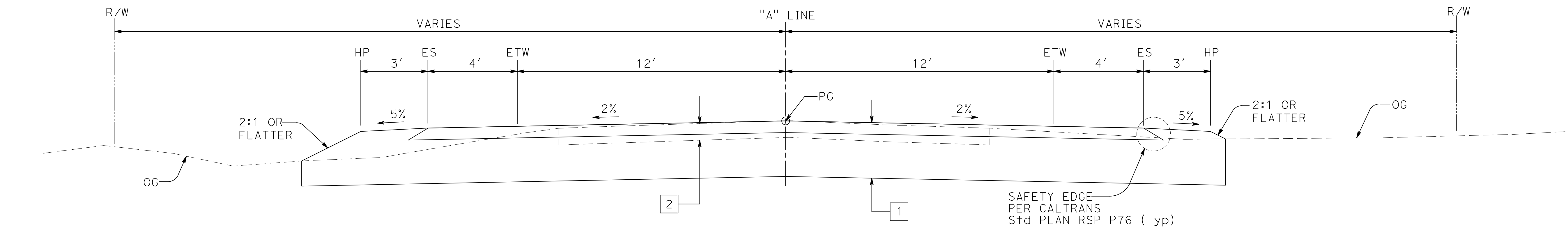
KCG
05-31-23

REVISED BY
DATE REVISED

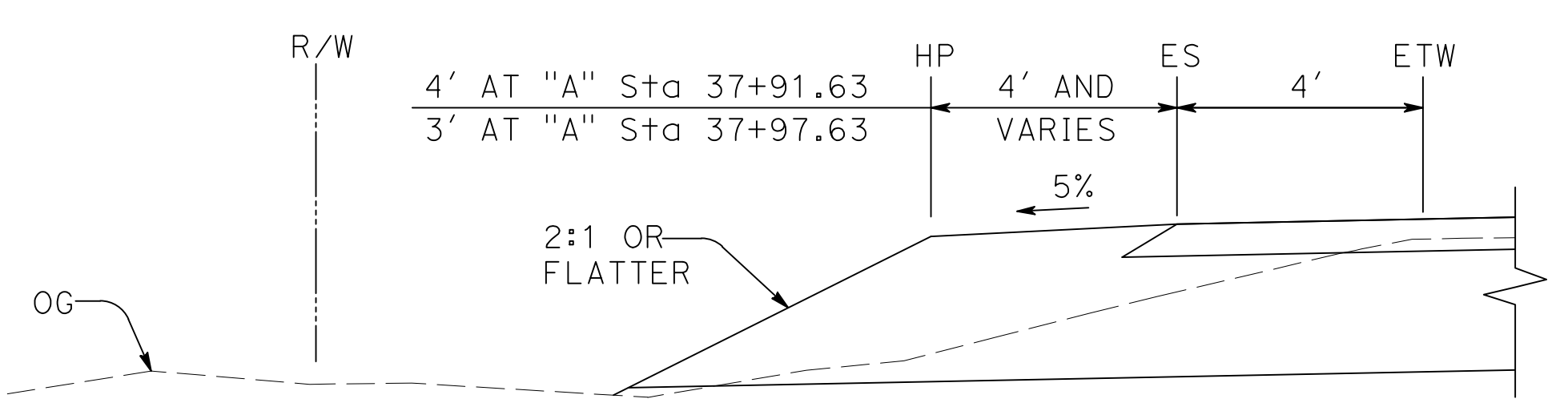
R. UHLMANN
G. GORDON

CALCULATED-DESIGNED BY
CHECKED BY

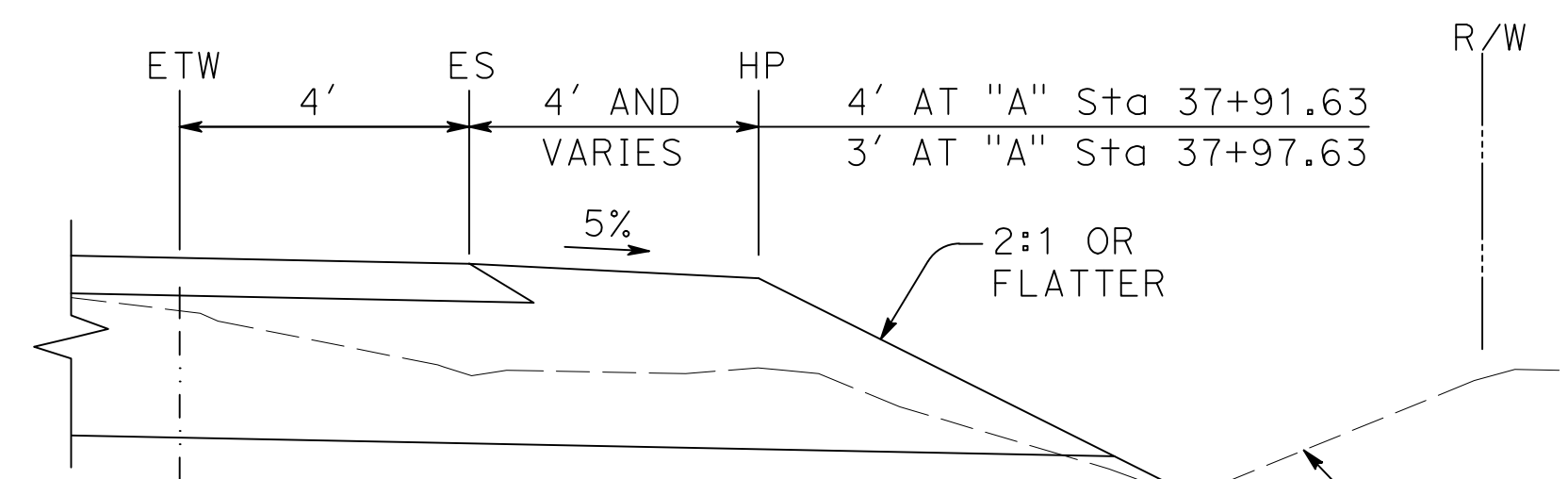
PROJECT ENGINEER
GARY M. GORDON



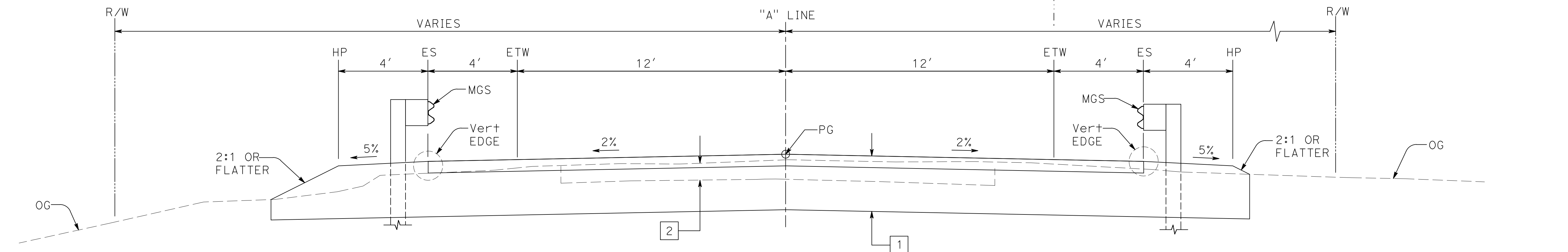
"A" Sta 37+97.63 TO "A" Sta 41+55.50



"A" Sta 37+83.70 Lt TO "A" Sta 37+97.63 Lt



"A" Sta 37+83.70 Rt TO "A" Sta 37+97.63 Rt



"A" Sta 37+07.75 TO "A" Sta 37+83.70

Co ROAD 67

TYPICAL CROSS SECTION X-3
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

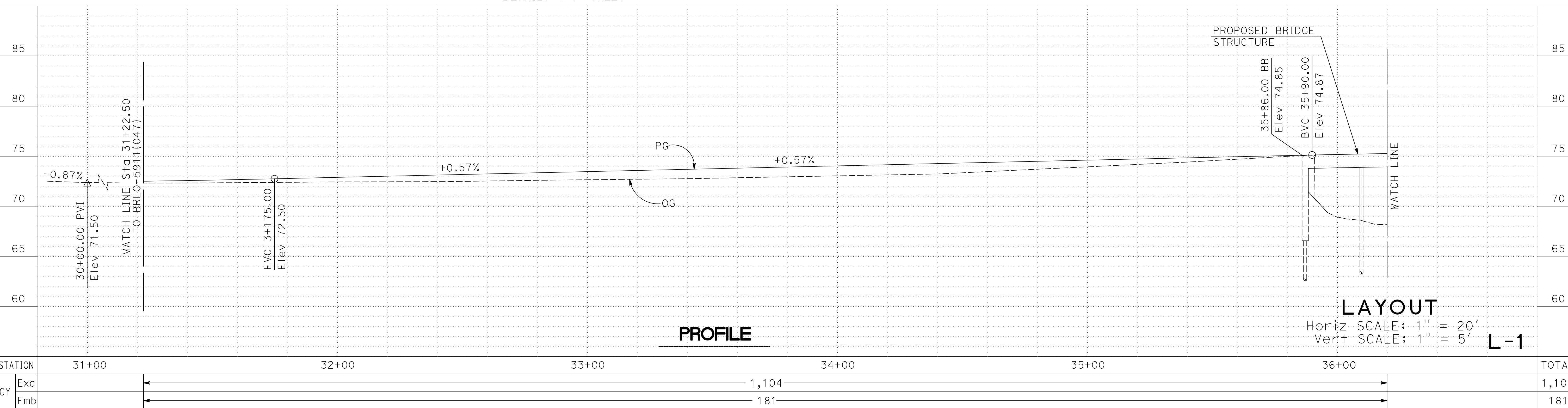
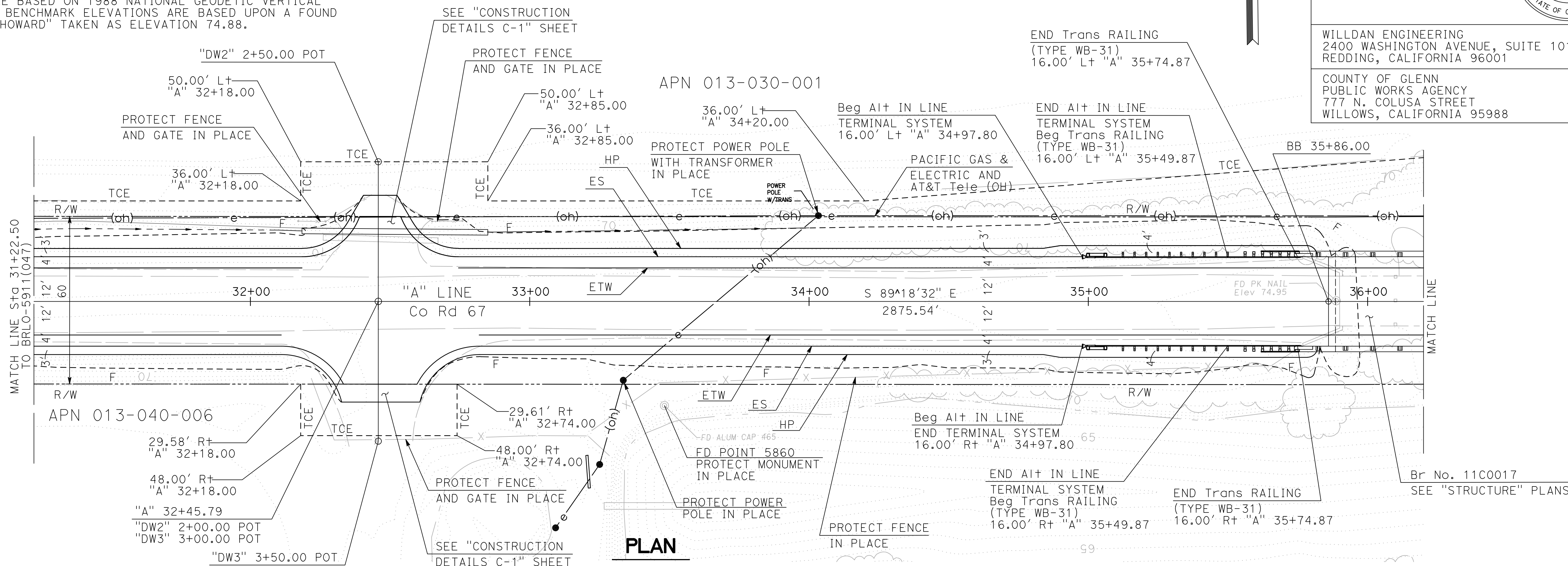
| POINT No. | NORTHING | EASTING | ELEVATION | DESCRIPTION |
|-----------|------------|------------|-----------|---|
| 5001 | 2279027.67 | 6590514.16 | 74.88 | FOUND BRONZE DISK "HOWARD" IN TOP OF SOUTHEAST WINGWALL OF Br. No. 11C0017 |
| 5860 | 2279009.86 | 6590160.48 | 70.84 | FOUND ALUMINUM CAP "465", 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 | 5 | 33 |

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



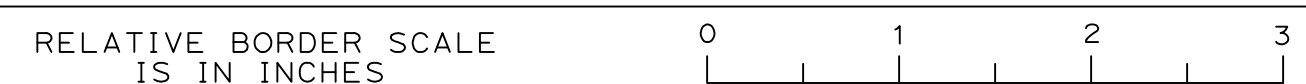
PROFILE

LAYOUT

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

| STATION | Exc | Emb | TOTAL |
|---------|-----|-----|-------|
| 31+00 | | | |
| 32+00 | | | |
| 33+00 | | | |
| 34+00 | | | |
| 35+00 | | | |
| 36+00 | | | |
| TOTAL | | | 1,104 |
| | | | 181 |

USERNAME => KEVIN
 DGN FILE => 03-101784ed001



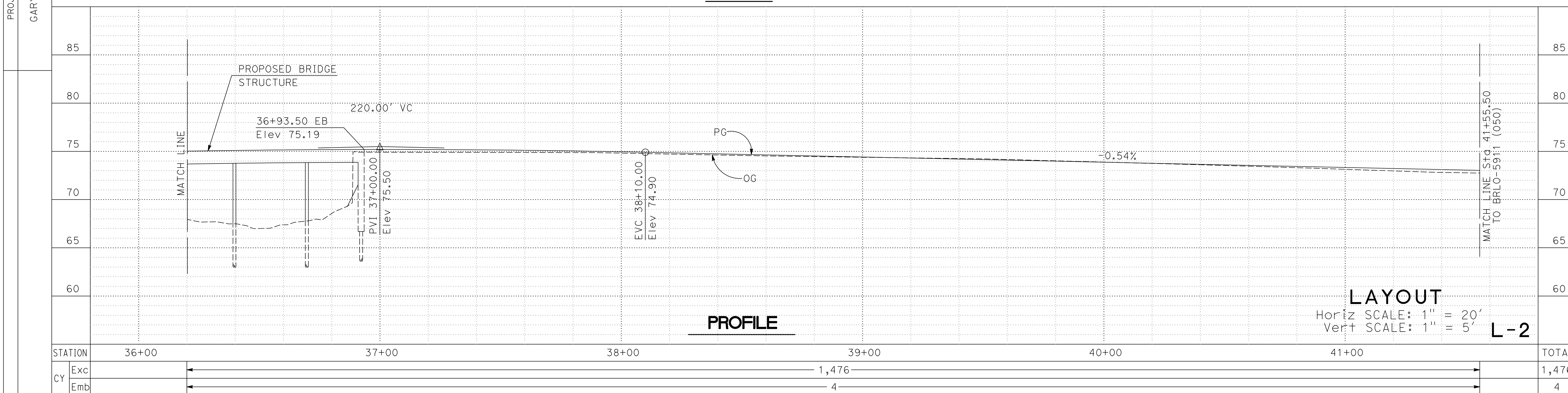
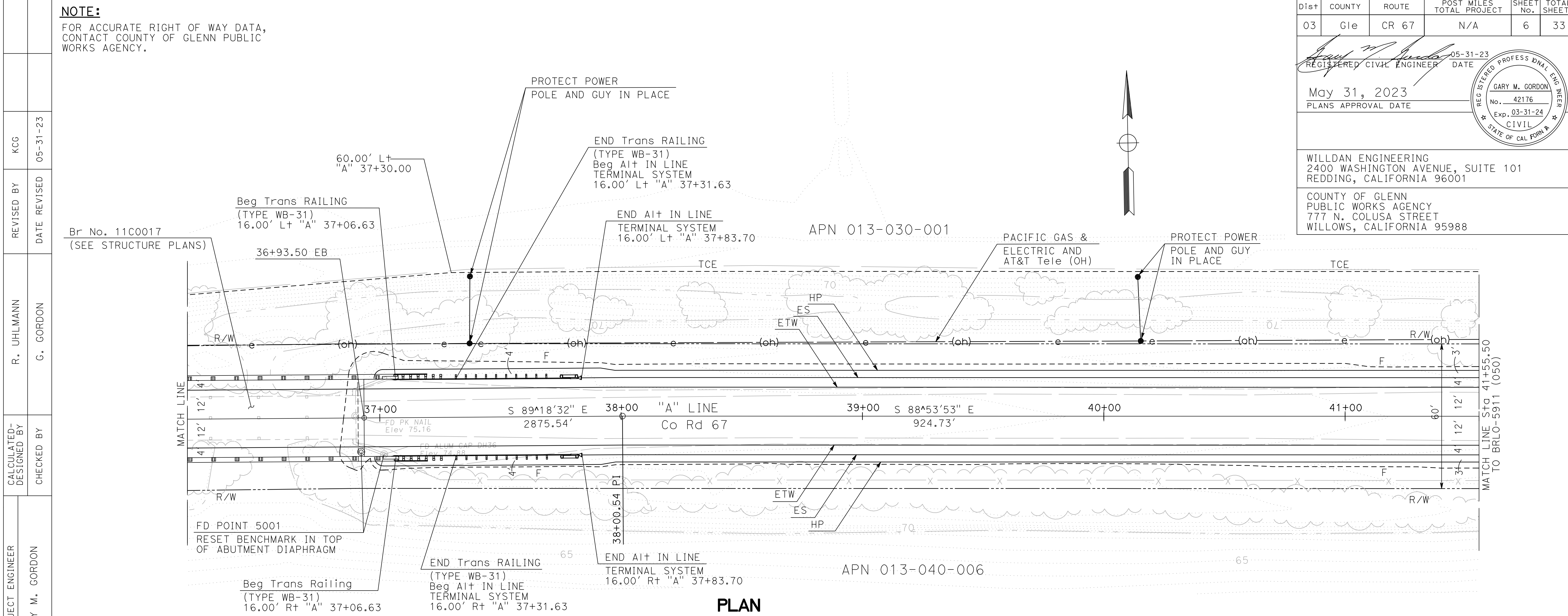
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 TIME PLOTTED => 9:25:32 AM

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 | 33 |

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



LAYOUT
 Horiz SCALE: 1" = 20'
 Vert SCALE: 1" = 5'
L-2

LAST REVISION DATE PLOTTED => 5/31/2023
 05-31-23 TIME PLOTTED => 9:00:39 AM

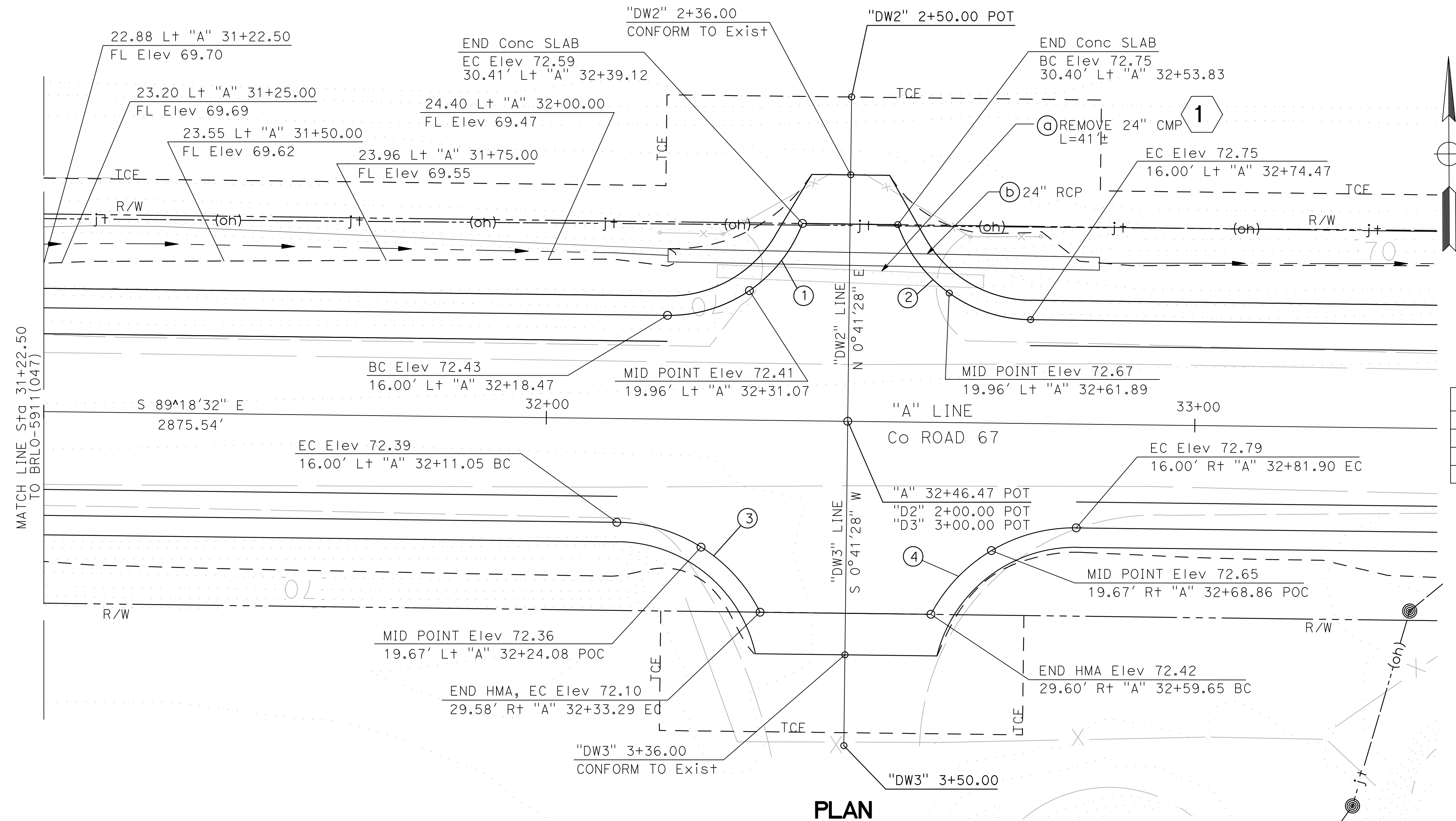
| | |
|------------------------|----------------|
| PROJECT ENGINEER | GARY M. GORDON |
| CALCULATED-DESIGNED BY | CHECKED BY |
| R. UHLMANN | G. GORDON |
| REVISED BY | DATE REVISED |
| KCG | 05-31-23 |

| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 03 | Glenn | CR 67 | N/A | 7 | 33 |

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

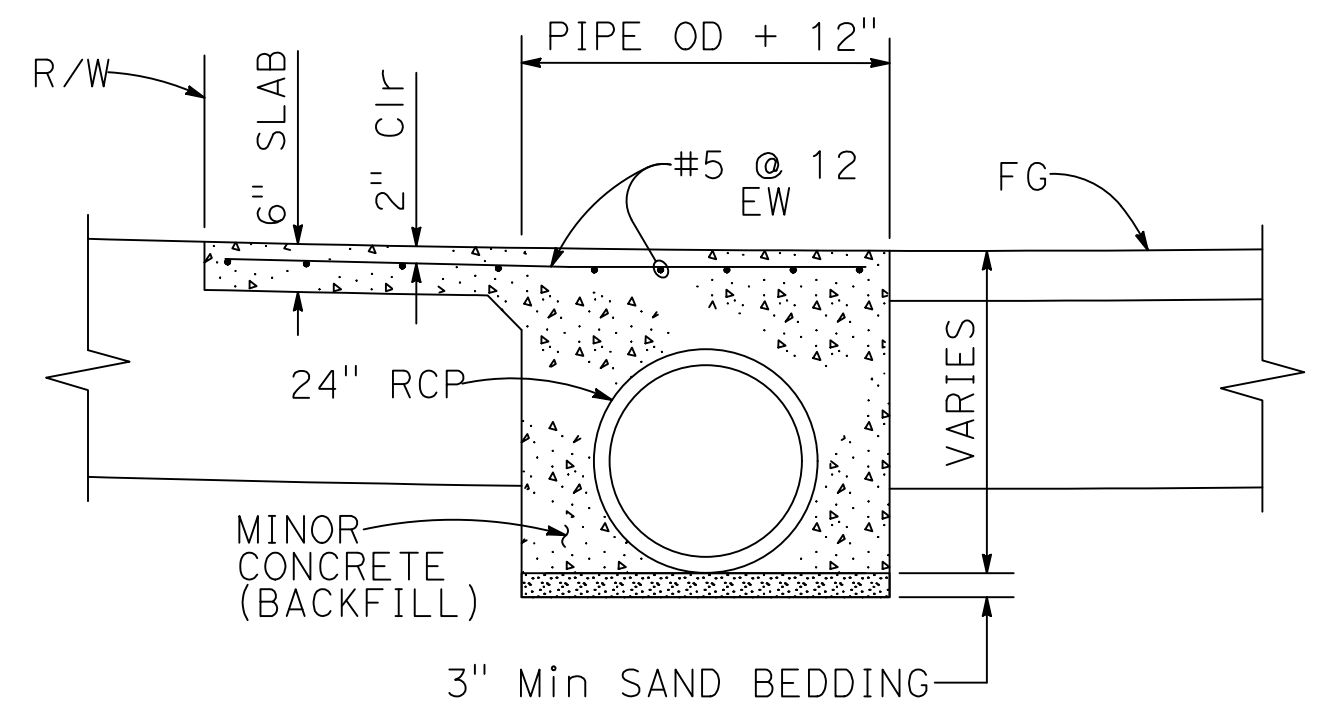
WILLDAN ENGINEERING
 2400 WASHINGTON AVENUE, SUITE 101
 REDDING, CALIFORNIA 96001

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

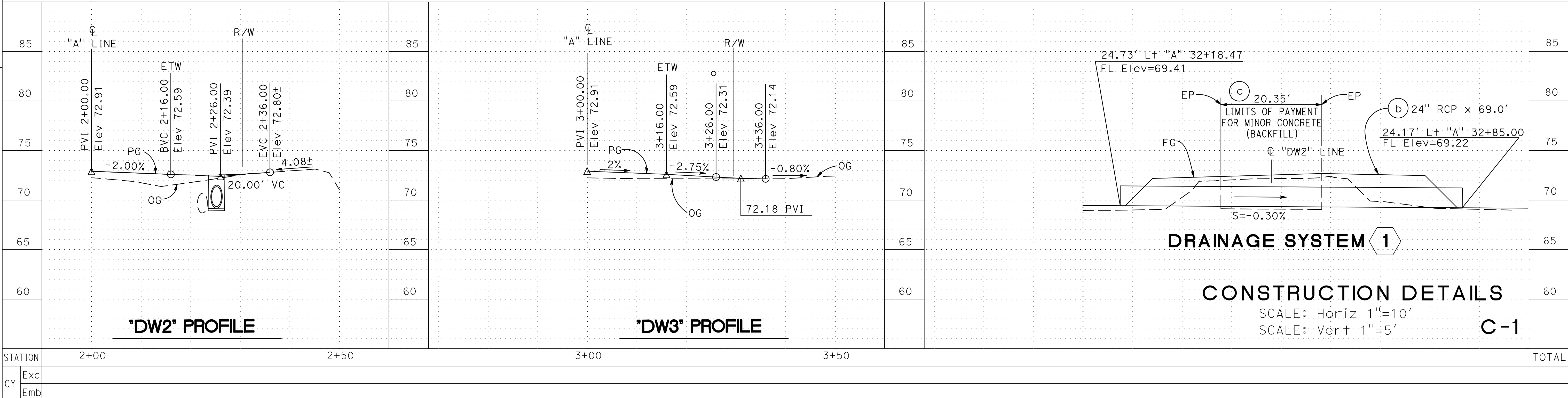


CURVE DATA

| No. @ | R | Δ | T | L |
|-------|--------|-----------|--------|--------|
| 1 | 22.00' | 69°49'31" | 15.35' | 26.81' |
| 2 | 22.00' | 69°48'13" | 15.35' | 26.80' |
| 3 | 25.00' | 62°49'50" | 15.27' | 27.41' |
| 4 | 25.00' | 62°51'58" | 15.28' | 27.43' |



RCP TRENCH DETAIL
SCALE: 1/2"=1'-0"



CONSTRUCTION DETAILS
SCALE: Horiz 1"=10'
SCALE: Vert 1"=5'

DATE PLOTTED => 5/31/2023
TIME PLOTTED => 8:39:52 AM

| | |
|------------------------|----------------|
| PROJECT ENGINEER | GARY M. GORDON |
| CALCULATED-DESIGNED BY | G. GORDON |
| REVISOR | R. UHLMANN |
| DATE | 05-31-23 |
| BY | KCG |

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 | 8 | 33 |

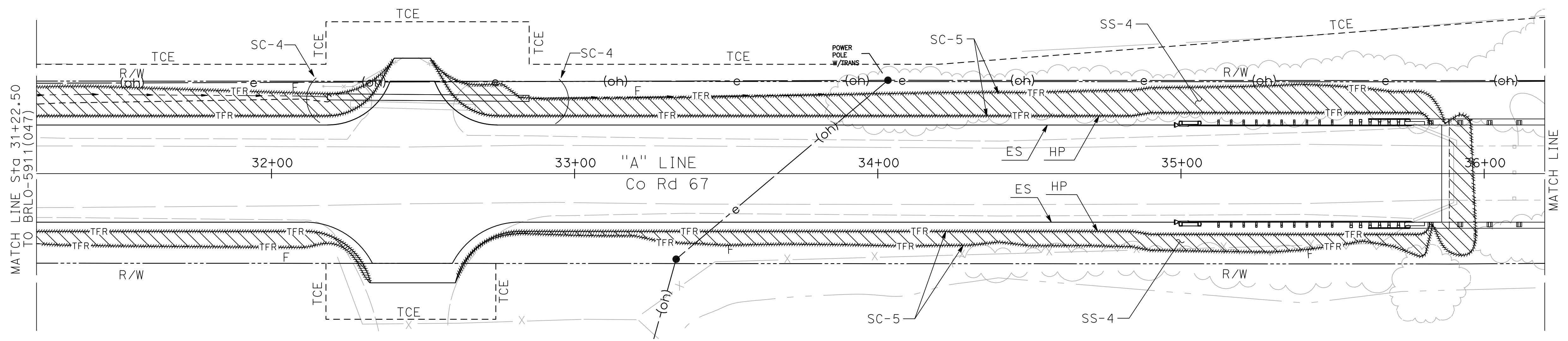
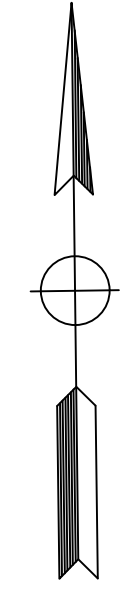
REGISTERED CIVIL ENGINEER DATE 05-31-23

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:**
- ////// TFR ////
 - SC-5: TEMPORARY FIBER ROLL CONTROL PER CALTRANS STANDARD T56
 - SS-4: HYDROSEEDING FOR ALL PROPOSED SLOPES. MIX TO BE DETERMINED.
 - SC-4: CHECK DAMS PER CALTRANS STANDARD T57

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 BERM'S, 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

LAST REVISION DATE PLOTTED => 5/31/2023
05-31-23 TIME PLOTTED => 5:15:07 PM

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

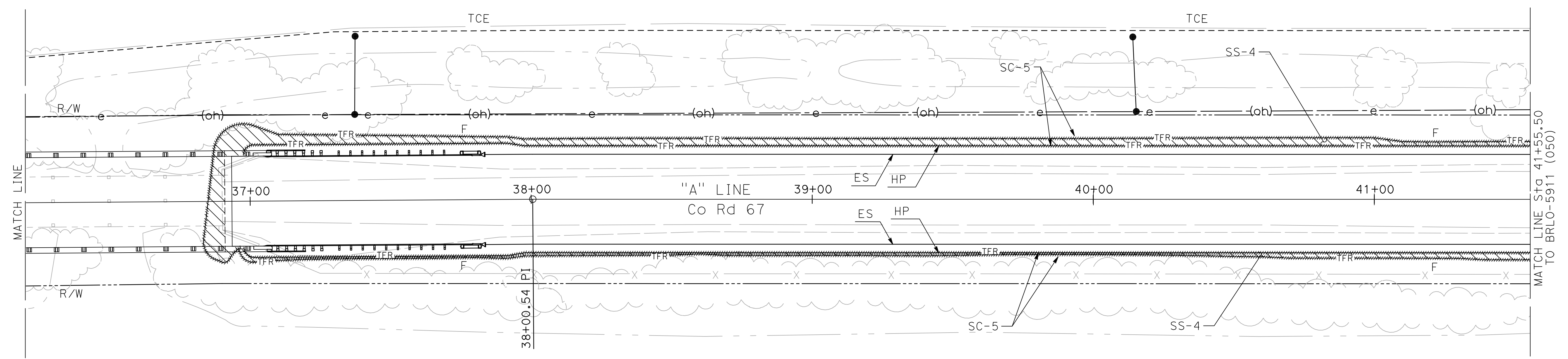
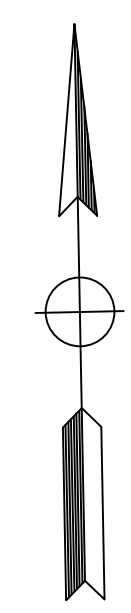
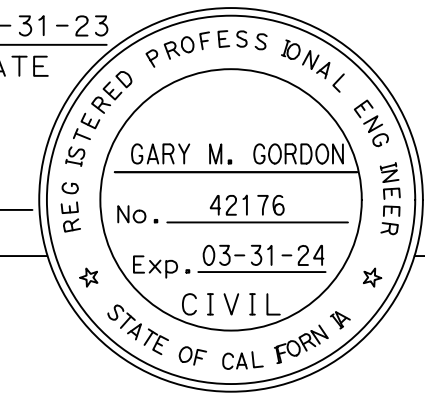
NOTE:
FOR ACCURATE RIGHT OF WAY DATA,
CONTACT COUNTY OF GLENN PUBLIC
WORKS AGENCY.

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 03 | Gle | CR 67 | N/A | 9 | 33 |

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



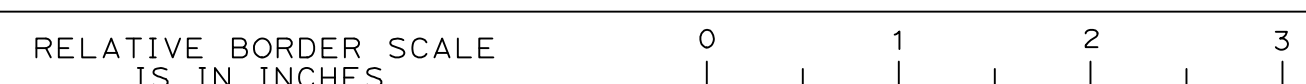
TEMPORARY WATER POLLUTION/ EROSION CONTROL PLAN

SCALE: 1" = 20'

WPC-2

APPROVED FOR TEMPORARY WATER POLLUTION AND EROSION CONTROL WORK ONLY

USERNAME => KEVIN
DGN FILE => 03-101784gb002



LAST REVISION | DATE PLOTTED => 5/31/2023
05-31-23 | TIME PLOTTED => 7:51:31 AM

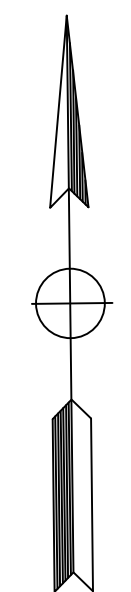
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|------------------------|----------------|
| PROJECT ENGINEER | GARY M. GORDON |
| CALCULATED-DESIGNED BY | CHECKED BY |
| B. BURCH | R. UHLMANN |
| REVISED BY | DATE REVISED |
| KCG | 05-31-23 |

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 | 33 |

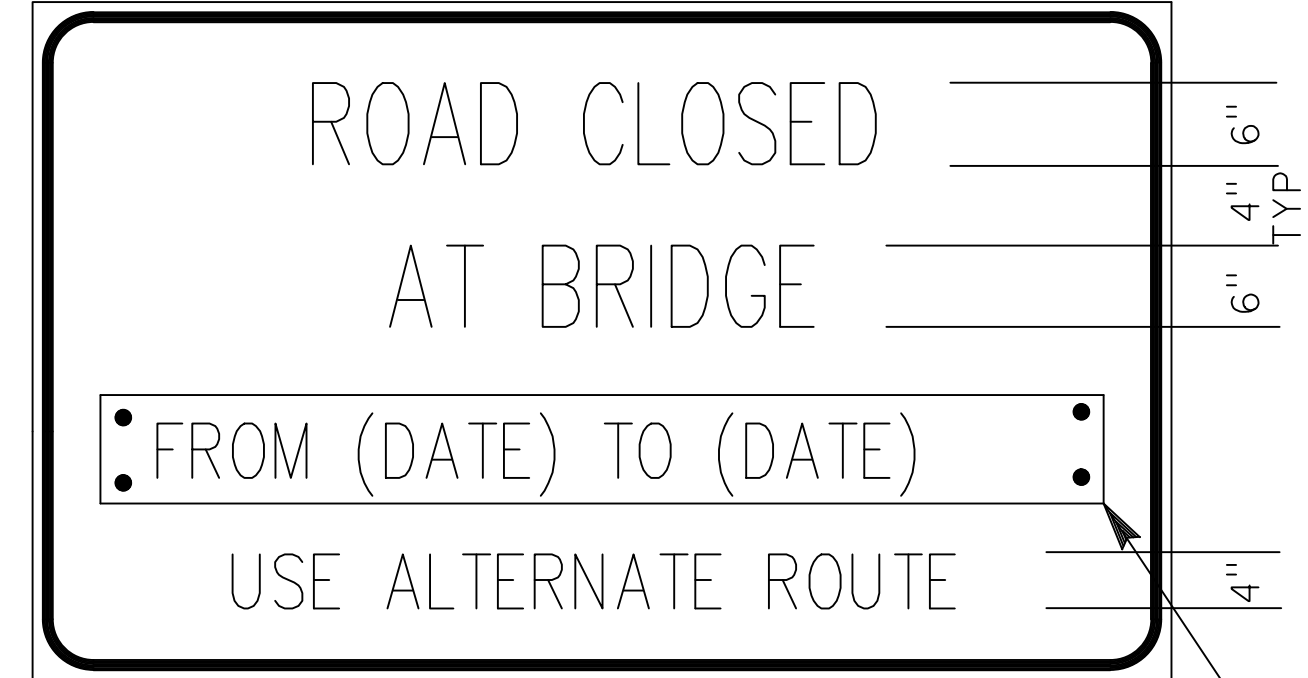
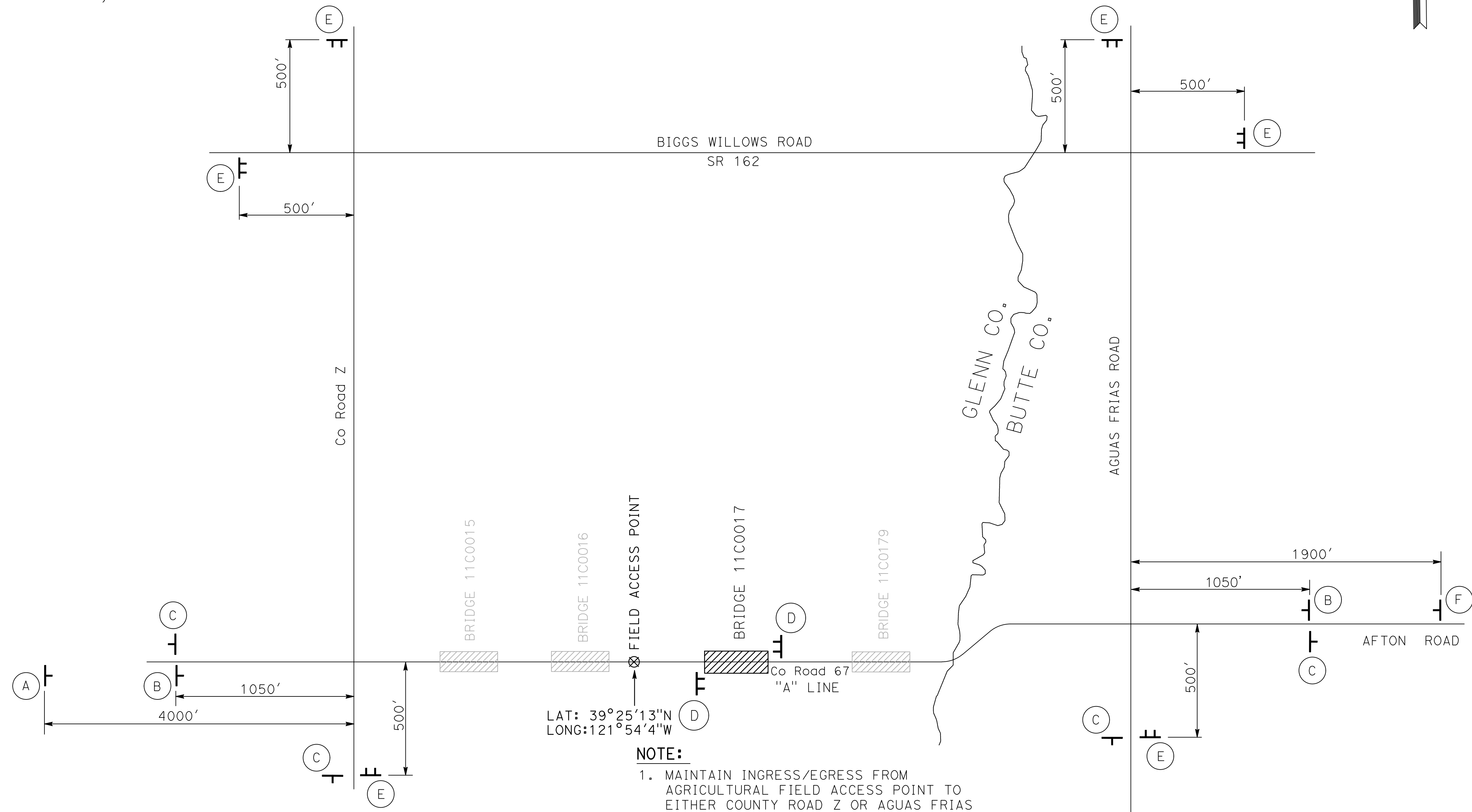
05-31-23
REGISTERED CIVIL ENGINEER DATE

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

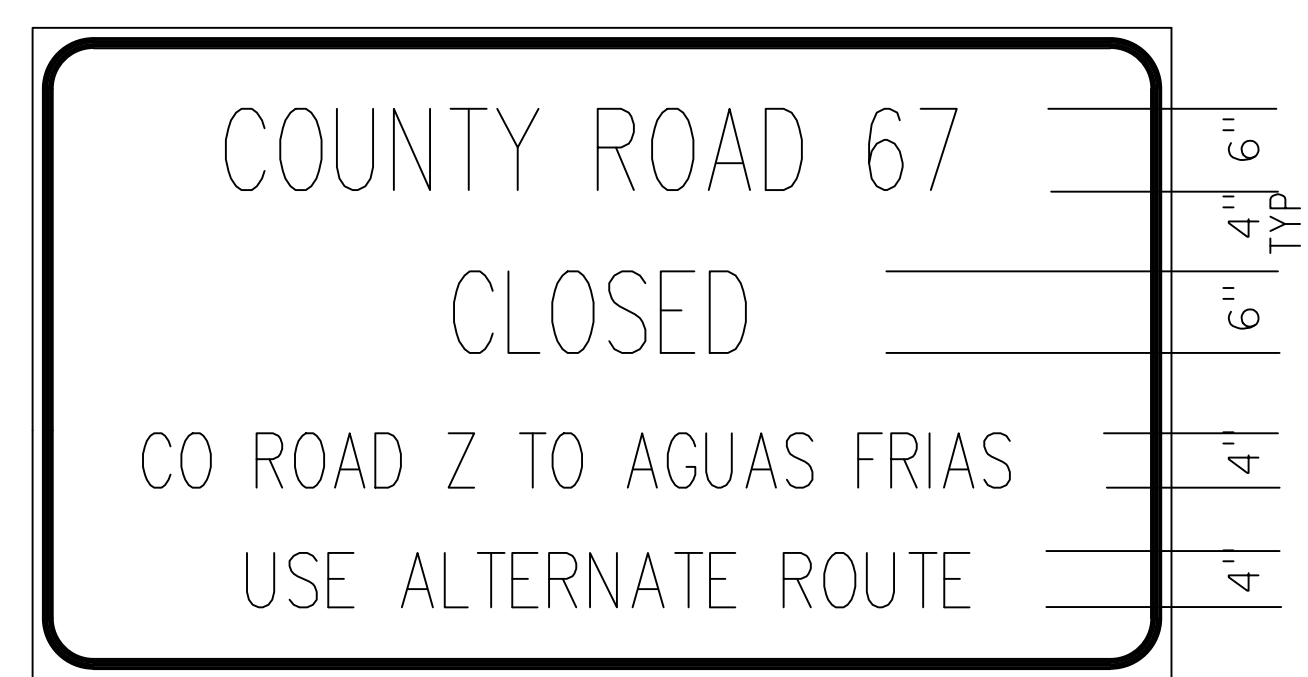
COUNTY OF GLENN
PUBLIC WORKS AGENCY
777 N. COLUSA STREET
WILLOWS, CALIFORNIA 95988



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 |

NOTE:

- 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

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 03 | Gle | CR 67 | N/A | 11 | 33 |

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



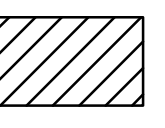


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 2400 WASHINGTON AVENUE, SUITE 101
 REDDING, CALIFORNIA 96001

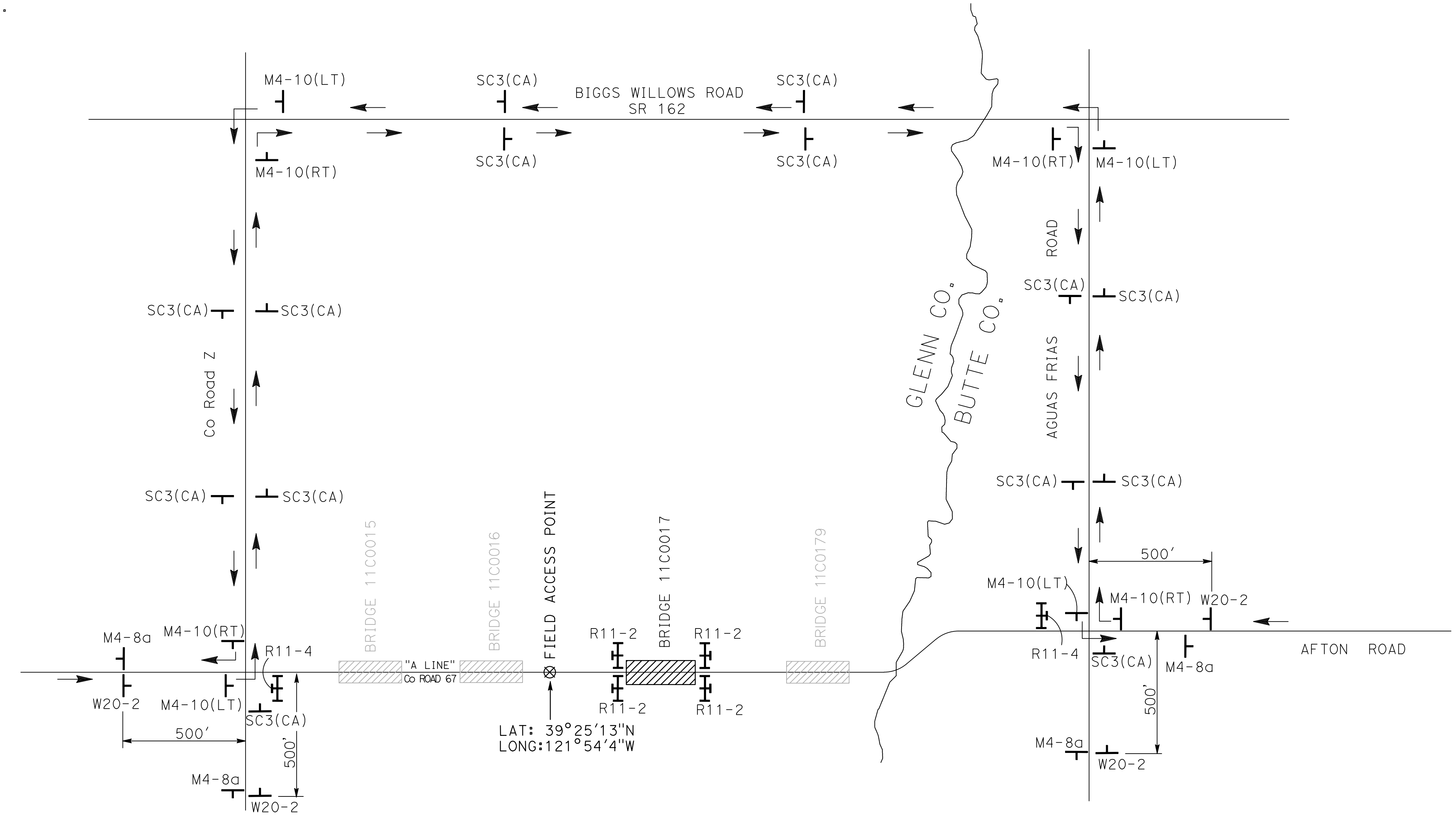
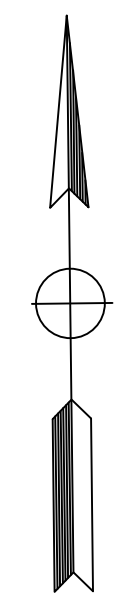
COUNTY OF GLENN
 PUBLIC WORKS AGENCY
 777 N. COLUSA STREET
 WILLOWS, CALIFORNIA 95988

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

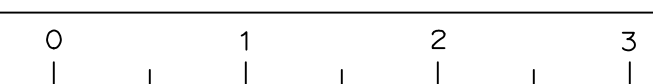
-  TEMPORARY SIGN AND POST
-  TYPE III BARRICADE WITH SIGN
L=8.00', WITH THREE WARNING LIGHTS (TYPE B)
-  CONSTRUCTION AREA
-  DIRECTION OF TRAVEL
-  AGRICULTURAL FIELD ACCESS POINT
LAT: 39°25'13"N, LONG: 121°54'4"W



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 |

APPROVED FOR DETOUR SIGN WORK ONLY



USERNAME => KEVIN
 DGN FILE => 03-101784md001

DETOUR PLAN
NO SCALE
DE-1

LAST REVISION | DATE PLOTTED => 5/31/2023
 05-31-23 | TIME PLOTTED => 5:42:03 PM

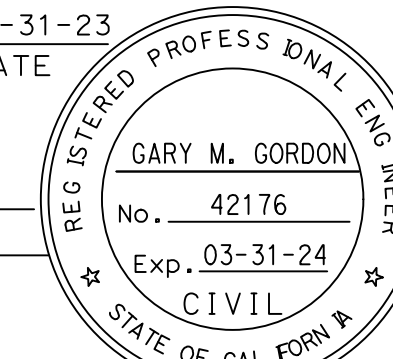
GENERAL NOTES:

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

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 03 | Glenn | CR 67 | N/A | 12 | 33 |


 05-31-23
 REGISTERED CIVIL ENGINEER DATE
 May 31, 2023
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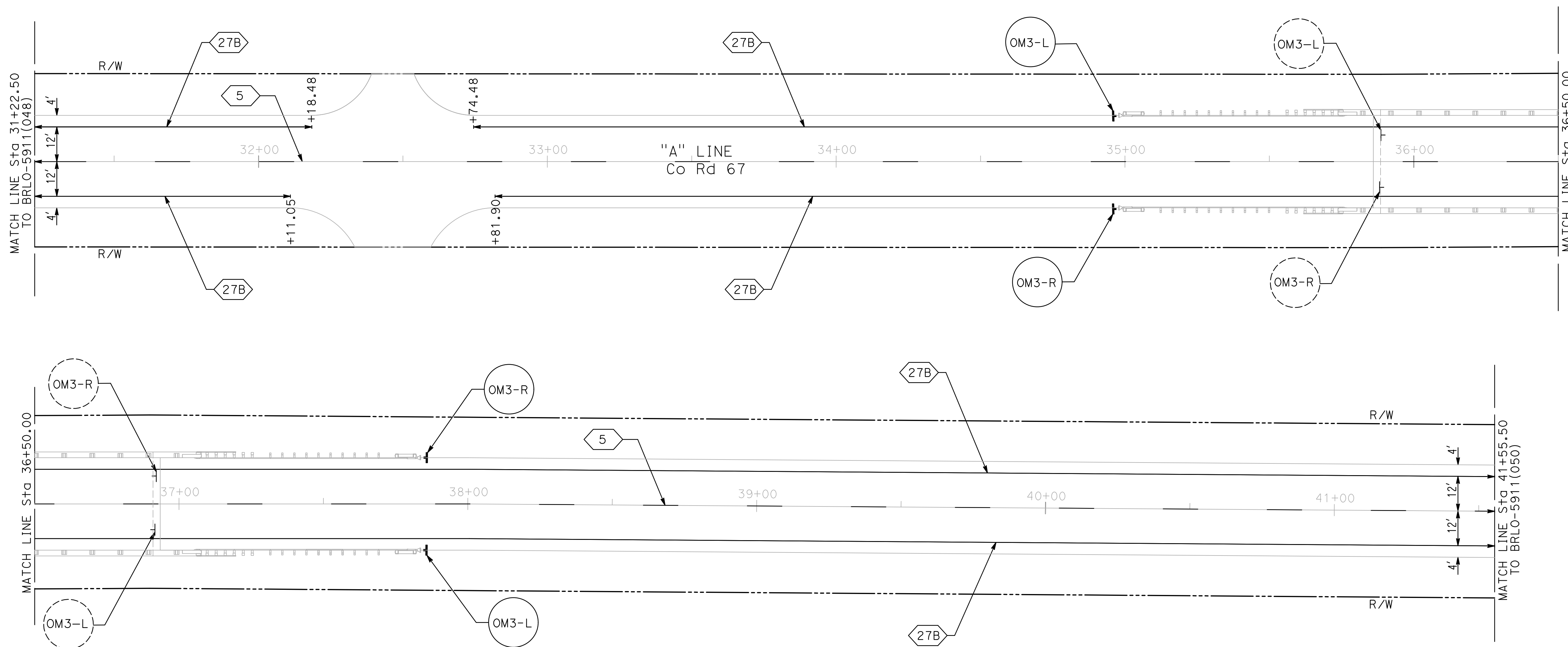
WILLDAN ENGINEERING
 2400 WASHINGTON AVENUE, SUITE 101
 REDDING, CALIFORNIA 96001
 COUNTY OF GLENN
 PUBLIC WORKS AGENCY
 777 N. COLUSA STREET
 WILLOWS, CALIFORNIA 95988

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 | 31+22.50 TO 32+11.05 | EB | 27B | 88.6 | | | | | |
| PD-1 | 31+22.50 TO 32+18.48 | WB | 27B | 96.0 | | | | | |
| PD-1 | 32+81.90 TO 41+55.50 | EB | 27B | 873.6 | | | | | |
| PD-1 | 32+74.48 TO 41+55.50 | WB | 27B | 881.0 | | | | | |
| PD-1 | 31+22.50 TO 41+55.50 | WB | 5 | | | 1033.0 | | | |
| TOTAL | | | | 1939.2 | | 1033.0 | | | |

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 Std PLAN A73B |
| OM3-R | 12" x 36" | 2 | 2 | 8'-0" LONG METAL POST PER Std PLAN A73B |



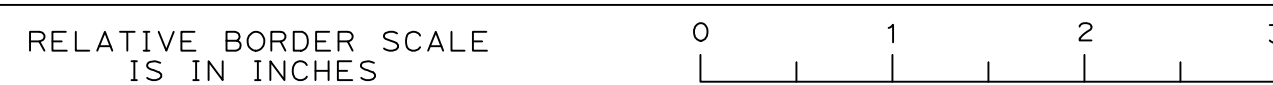
PAVEMENT DELINEATION AND SIGN PLAN

SCALE: 1" = 20'

PD-1

THIS PLAN IS ACCURATE FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

USERNAME => KEVIN
DGN FILE => 03-101784nd001



LAST REVISION DATE PLOTTED => 5/31/2023
 05-31-23 TIME PLOTTED => 5:11:02 PM

EARTHWORK QUANTITIES

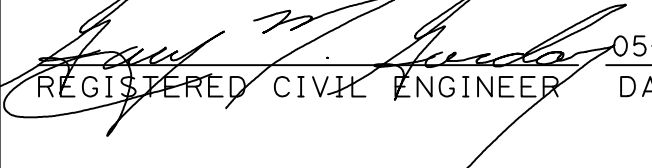
| SHEET No. | STATION | ROADWAY EXCAVATION | EMBANKMENT (N) | IMPORTED BORROW | GEOSYNTHETIC REINFORCED EMBANKMENT |
|-----------|------------------------------------|--------------------|----------------|-----------------|------------------------------------|
| | | CY | CY | CY | SYDD |
| L-1 | "A" 31+22.50 TO "A" 35+93.33 | 1,104 | 181 | 181 | |
| L-1 | "A" 31+22.50 R+ TO "A" 32+18.48 R+ | | | | 128.0 |
| L-1 | "A" 32+74.47 L+ TO "A" 35+78.23 L+ | | | | 405.0 |
| L-2 | "A" 36+85.00 TO "A" 41+55.50 | 1,476 | 4 | 4 | |
| TOTAL | | 2,580 | 185 | 185 | 533.0 |

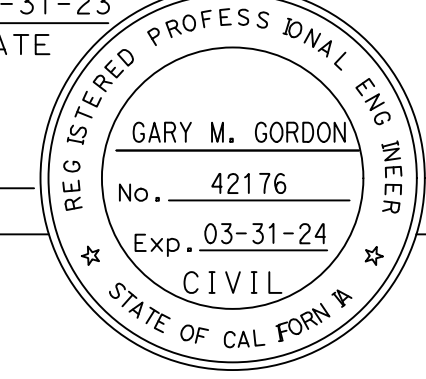
(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

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-2 | | TO BE DETERMINED | | |
| WPC-1 | "A" 31+22.50 L+ TO "A" 32+40.48 L+ | 249 | | 1,063 |
| WPC-1 | "A" 31+22.50 R+ TO "A" 32+32.67 R+ | 234 | | 662 |
| WPC-1 | "A" 32+52.48 L+ TO "A" 35+93.33 L+ | 714 | | 2,914 |
| WPC-1 | "A" 32+60.67 R+ TO "A" 35+93.33 R+ | 716 | | 1,705 |
| WPC-2 | "A" 36+85.00 L+ TO "A" 41+55.50 L+ | 953 | | 1,580 |
| WPC-2 | "A" 36+85.00 R+ TO "A" 41+55.50 R+ | 956 | | 771 |
| TOTAL | | 3,822 | 1 | 8,695 |

| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 03 | Glenn | CR 67 | N/A | 13 | 33 |


 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

SAFETY EDGE

| SHEET No. | STATION | DIRECTION | TOTAL THICKNESS OF SAFETY EDGE (N) | | LENGTH SAFETY EDGE | HOT MIX ASPHALT (TYPE A) (N) |
|-----------|------------------------------------|-----------|------------------------------------|--------|--------------------|------------------------------|
| | | | FT | LF | | |
| L-1 | "A" 31+22.50 L+ TO "A" 32+18.47 L+ | WB | 0.52 | 95.97 | | 1.6 |
| L-1 | "A" 32+74.47 R+ TO "A" 34+97.90 R+ | WB | 0.52 | 223.43 | | 3.8 |
| L-1 | "A" 31+22.50 R+ TO "A" 32+11.05 R+ | EB | 0.52 | 88.55 | | 1.5 |
| L-1 | "A" 32+81.90 R+ TO "A" 34+97.90 R+ | EB | 0.52 | 216.00 | | 3.7 |
| L-2 | "A" 37+83.70 L+ TO "A" 41+55.50 L+ | WB | 0.52 | 371.80 | | 6.3 |
| L-2 | "A" 37+83.70 R+ TO "A" 41+55.50 R+ | EB | 0.52 | 371.80 | | 6.3 |
| SUBTOTAL | | | | | | 23.2 |

(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" 31+22.50 TO "A" 35+86.00 | 8,926 | 593.6 | 1,622 | 1.09 |
| L-2 | "A" 36+93.50 TO "A" 41+55.50 | 8,182 | 557.5 | 1,530 | 1.03 |
| L-1 TO L-2 | SAFETY EDGE | 23.2 | 23.2 | | |
| TOTAL | | 17,108 | 1,174.3 | 3,152 | 2.12 |

MIDWEST GUARDRAIL SYSTEM

| SHEET No. | STATION | TRANSITION RAILING (TYPE WB-31) | ALTERNATIVE IN-LINE TERMINAL SYSTEM |
|-----------|------------------------------------|---------------------------------|-------------------------------------|
| | | EA | EA |
| L-1 | "A" 34+97.80 L+ TO "A" 35+49.87 L+ | | 1 |
| L-1 | "A" 34+97.80 R+ TO "A" 35+49.87 R+ | | 1 |
| L-1 | "A" 35+49.87 L+ TO "A" 35+74.87 L+ | 1 | |
| L-1 | "A" 35+49.87 R+ TO "A" 35+74.87 R+ | 1 | |
| L-2 | "A" 37+06.63 L+ TO "A" 37+31.63 L+ | 1 | |
| L-2 | "A" 37+06.63 R+ TO "A" 37+31.63 R+ | 1 | |
| L-2 | "A" 37+31.63 L+ TO "A" 37+83.70 L+ | | 1 |
| L-2 | "A" 37+31.63 R+ TO "A" 37+83.70 R+ | | 1 |
| TOTAL | | 4 | 4 |

DRAINAGE QUANTITIES

| SHEET No. | DRAINAGE SYSTEM No. | DRAINAGE UNIT | REMOVE CULVERT | REINFORCED CONCRETE PIPE (CLASS 4) | | | MINOR CONCRETE (MINOR STRUCTURE) | DESCRIPTION |
|-----------|---------------------|---------------|----------------|------------------------------------|-----|------|----------------------------------|----------------------------------|
| | | | LF | 12" | 18" | 24" | | |
| C-1 | 1 | a | 41.1 | | | | | REMOVE 24" CULVERT |
| | | b | | | | 69.0 | | 24" RCP |
| | | c | | | | | 7.6 | Conc BACKFILL AND APPROACH APRON |
| TOTAL | | | 41.1 | | | 69.0 | 7.6 | |

SUMMARY OF QUANTITIES

Q-1

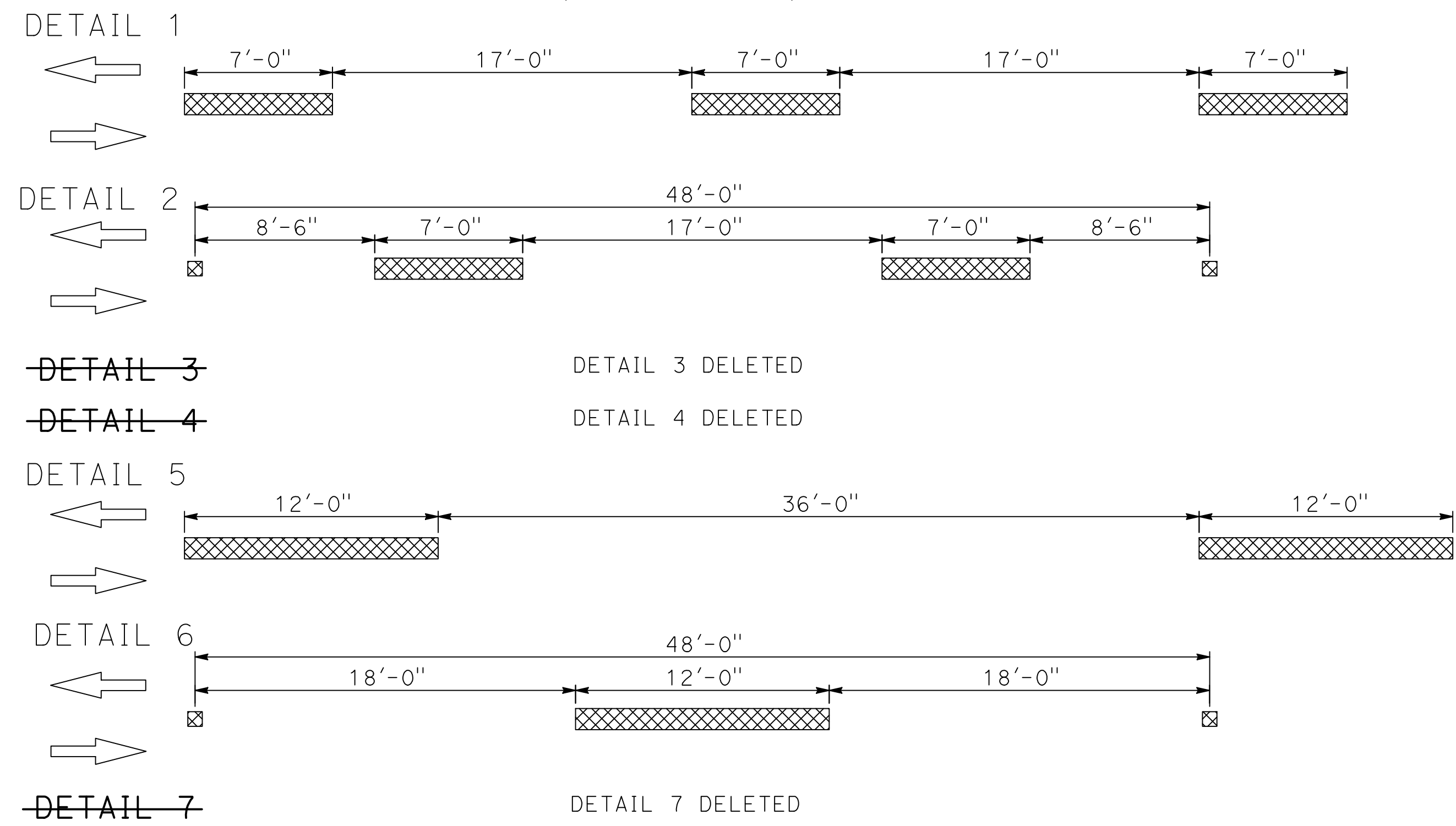


| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 03 | Gle | CR 67 | N/A | 14 | 33 |

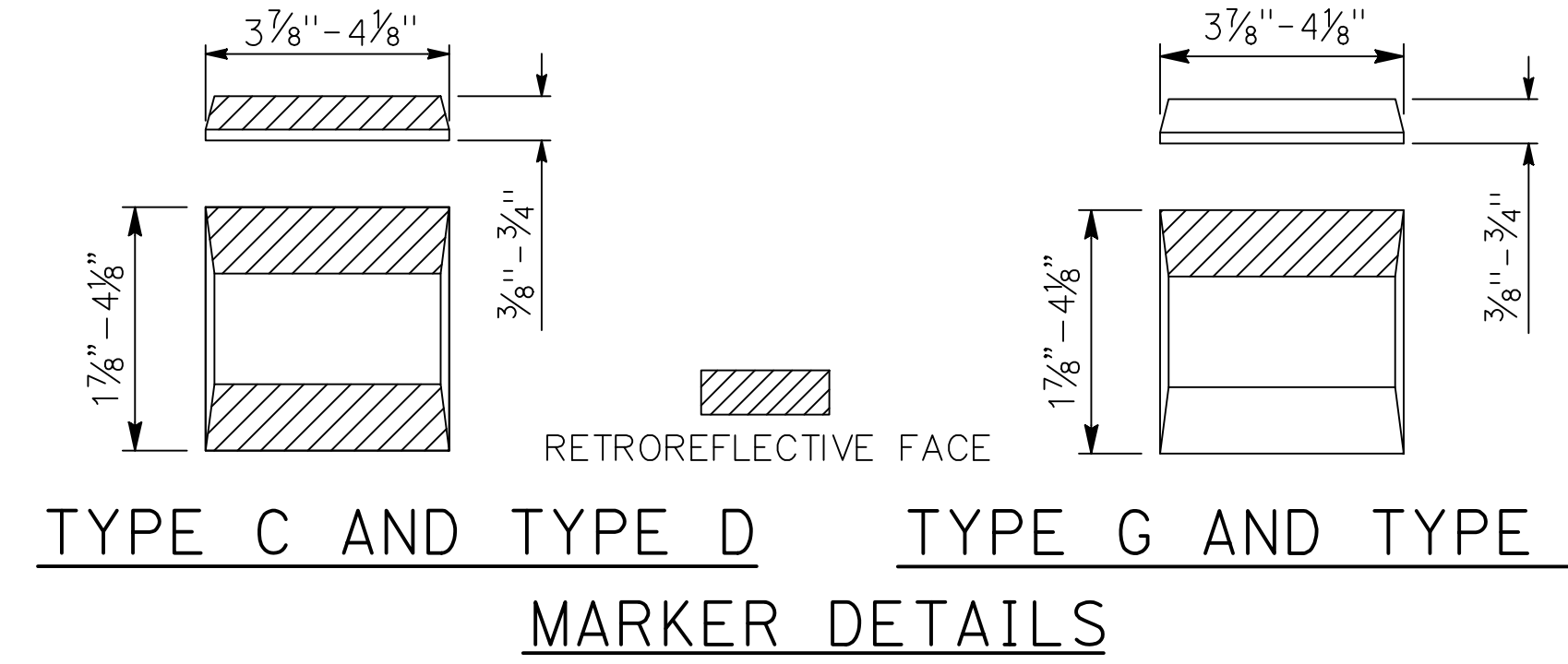
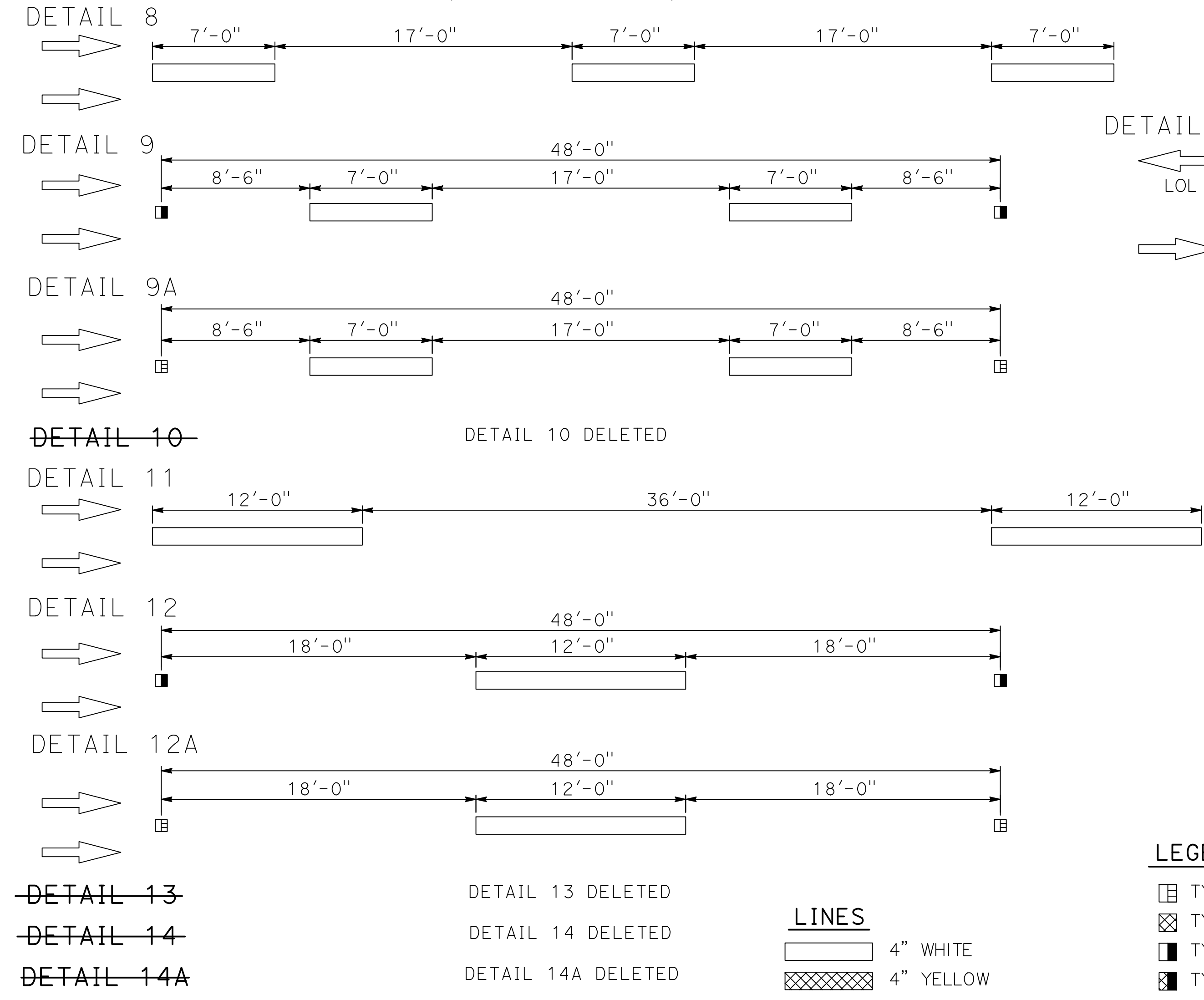
REGISTERED CIVIL ENGINEER DATE 05-31-23
 GARY M. GORDON
 No. 42176
 Exp. 03-31-24
 CIVIL
 STATE OF CAL FORM #

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.

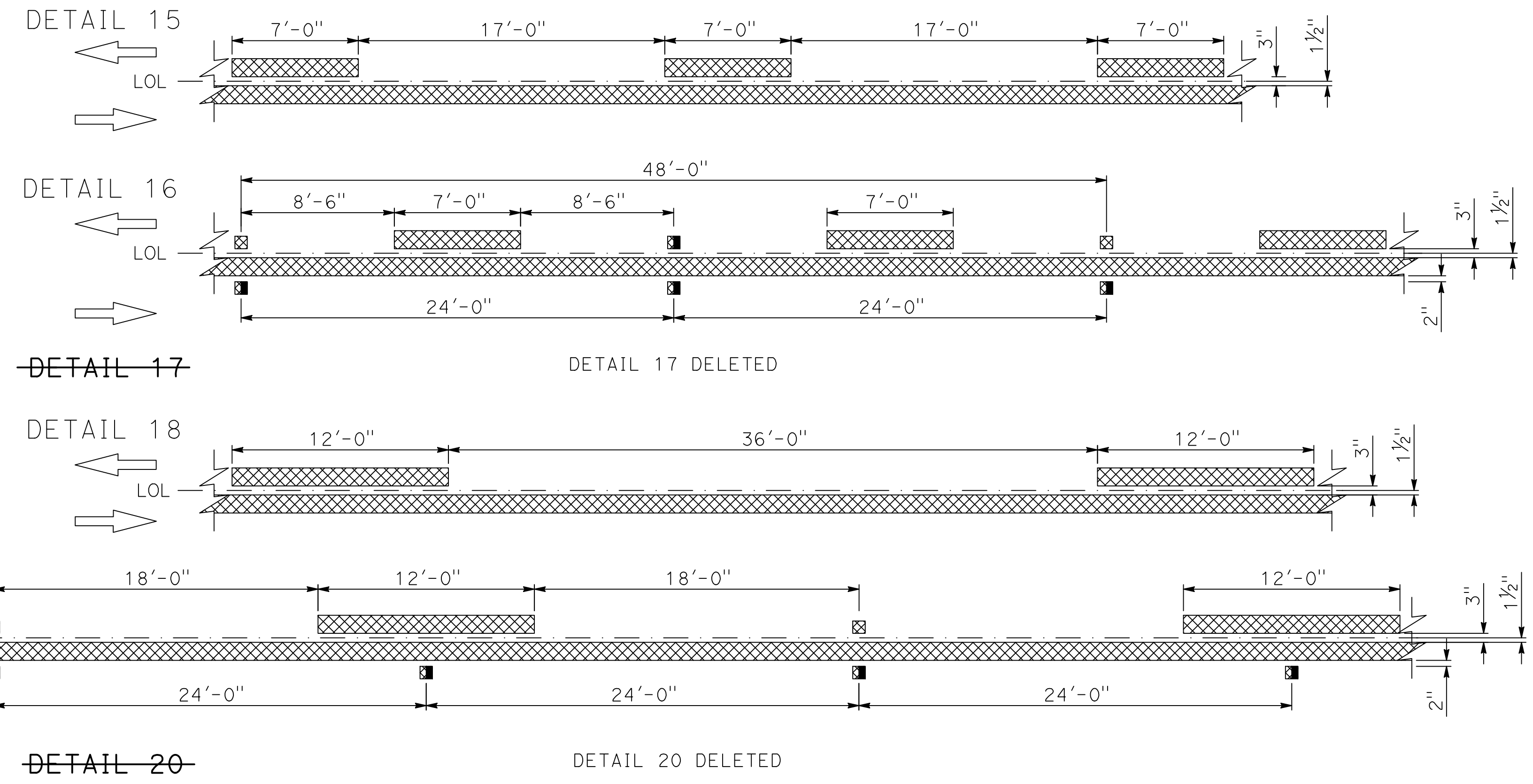
CENTERLINES
(2 LANE HIGHWAYS)



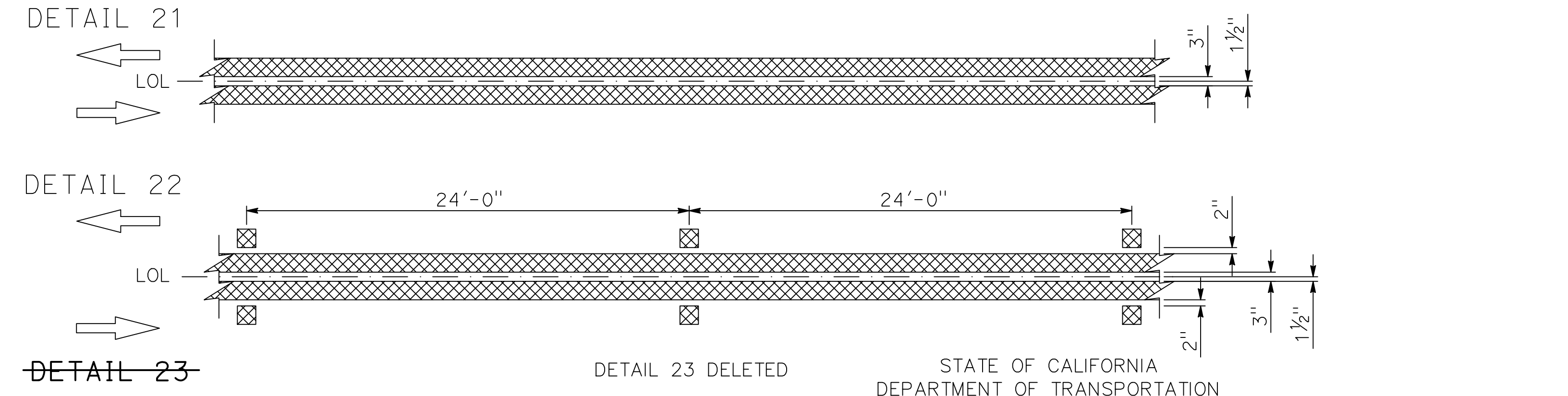
LANE LINES
(MULTILANE HIGHWAYS)



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

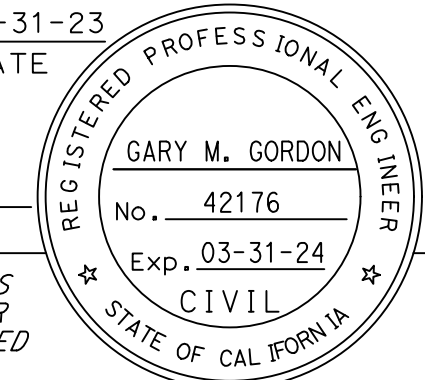
RSP A20A DATED OCTOBER 21, 2022 SUPERSEDES STANDARD PLAN A20A
DATED AUGUST 1, 2022 - PAGE 12 OF THE STANDARD PLANS BOOK DATED 2022.

REVISED STANDARD PLAN RSP A20A MOD

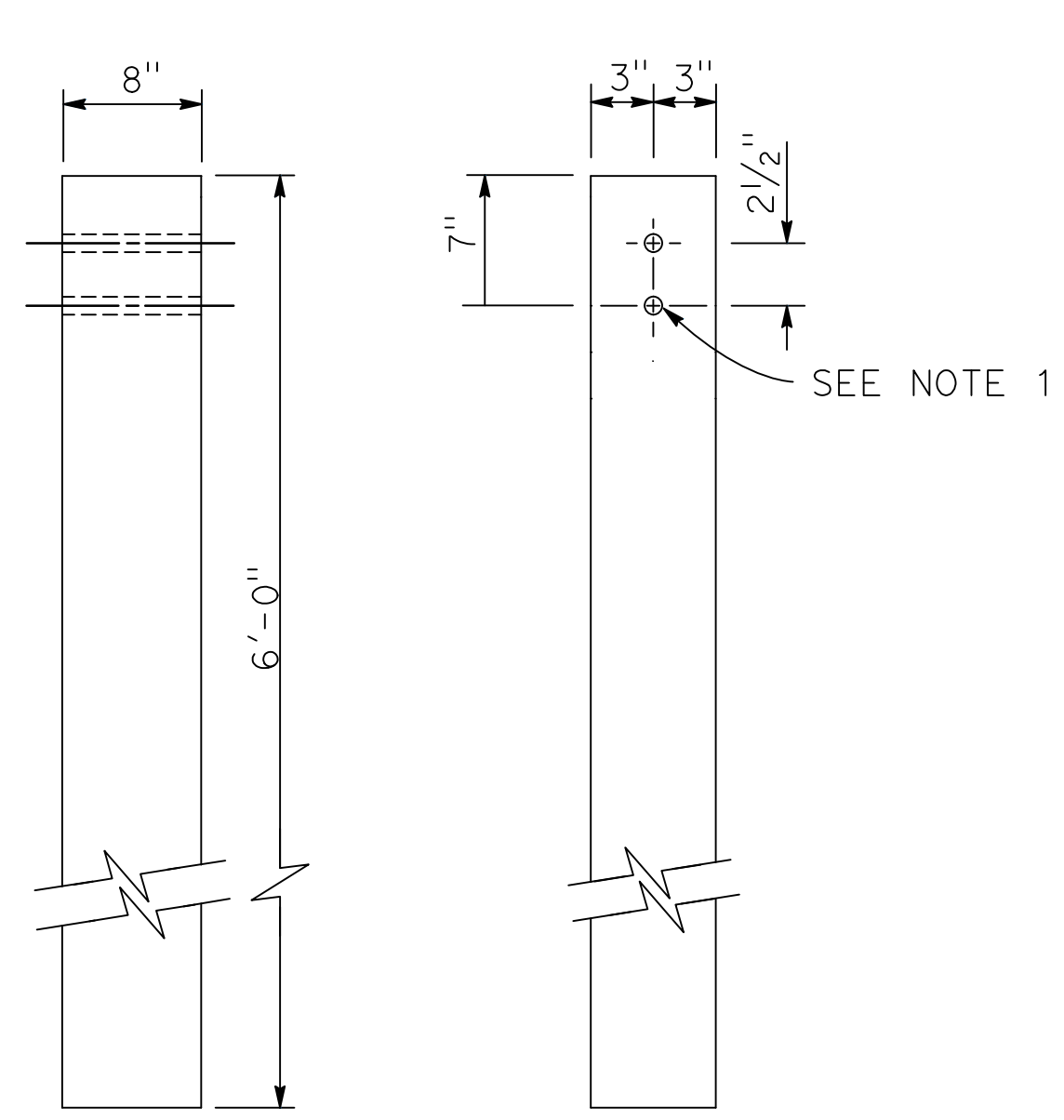
2022 REVISED STANDARD PLAN RSP A20A

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 03 | Gle | CR 67 | N/A | 15 | 33 |

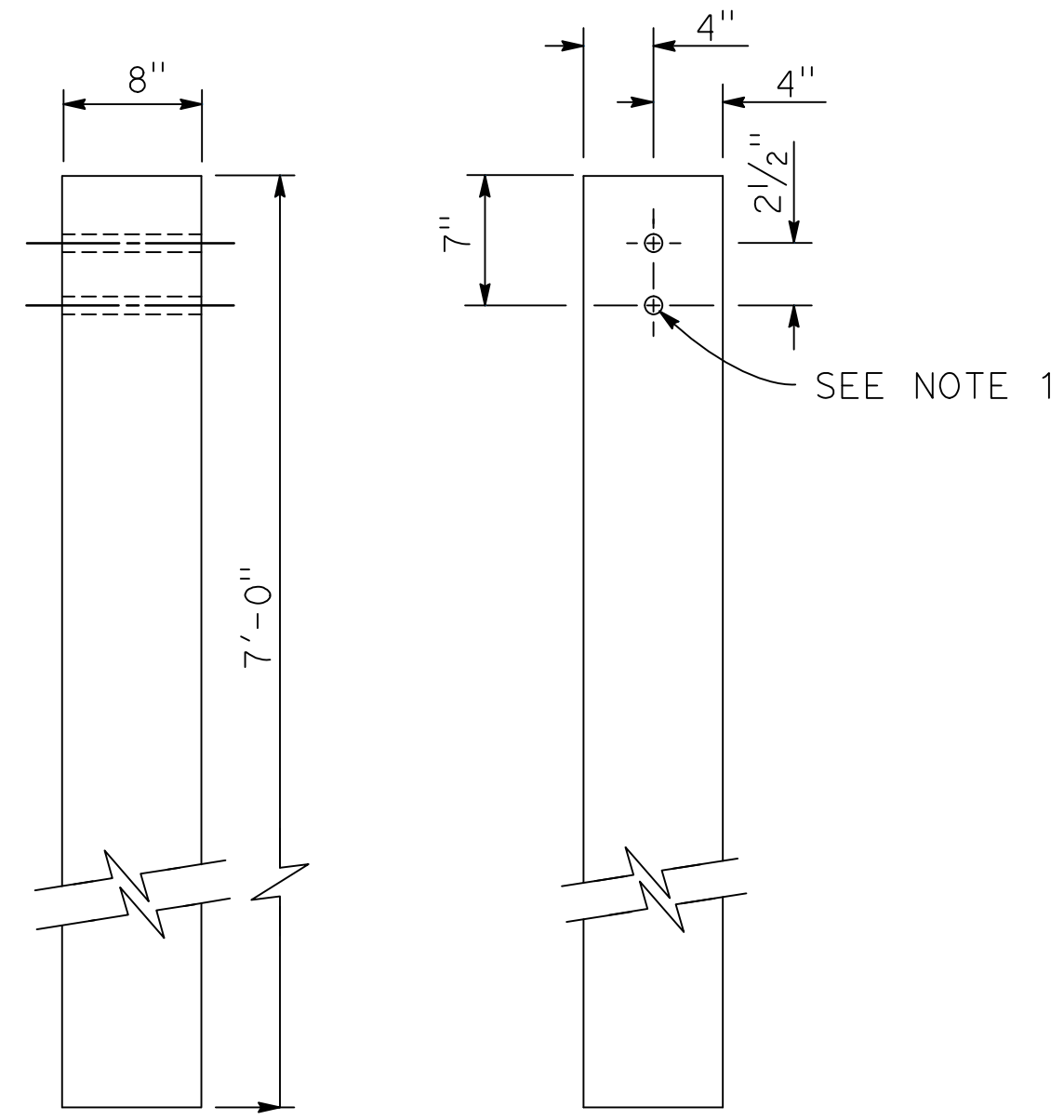
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|---|------------------|
| <i>Gary M. Gordon</i> REGISTERED CIVIL ENGINEER | 05-31-23 DATE |
| May 31, 2023 PLANS APPROVAL DATE | |
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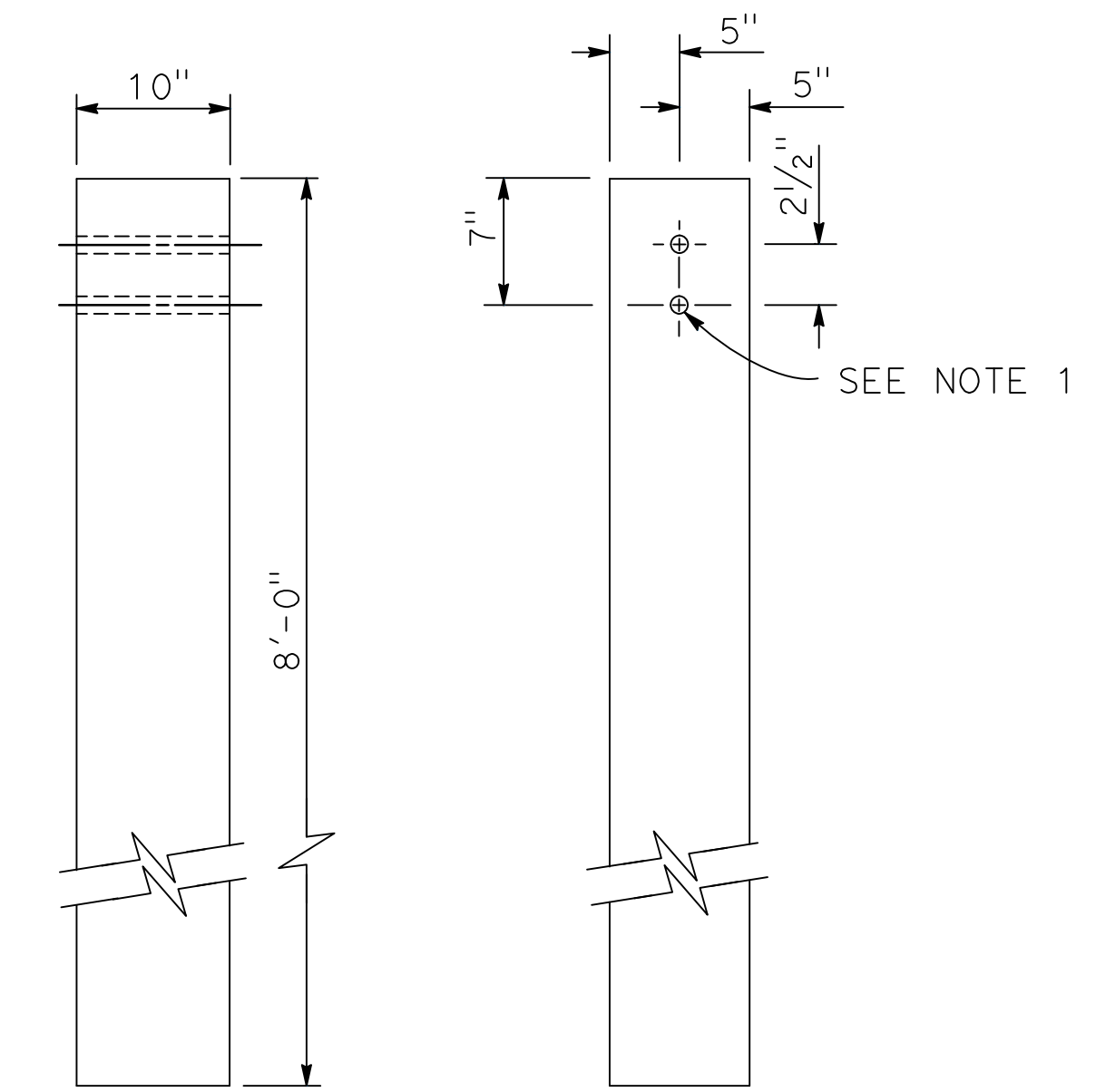
TO ACCOMPANY PLANS DATED 05-31-23



SIDE FRONT
6" x 8" WOOD POST
See Note 3



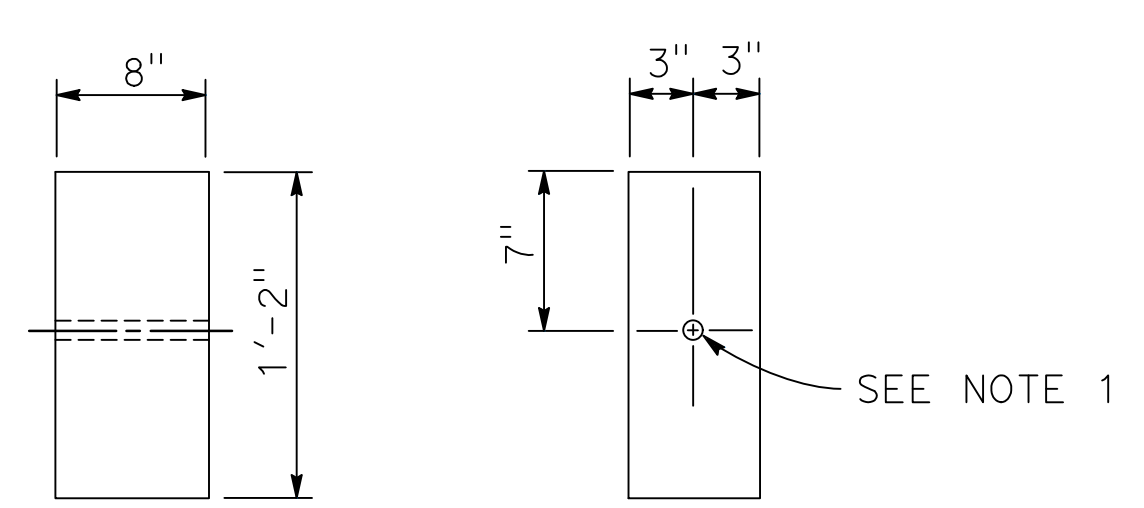
SIDE FRONT
8" x 8" WOOD POST
See Note 4



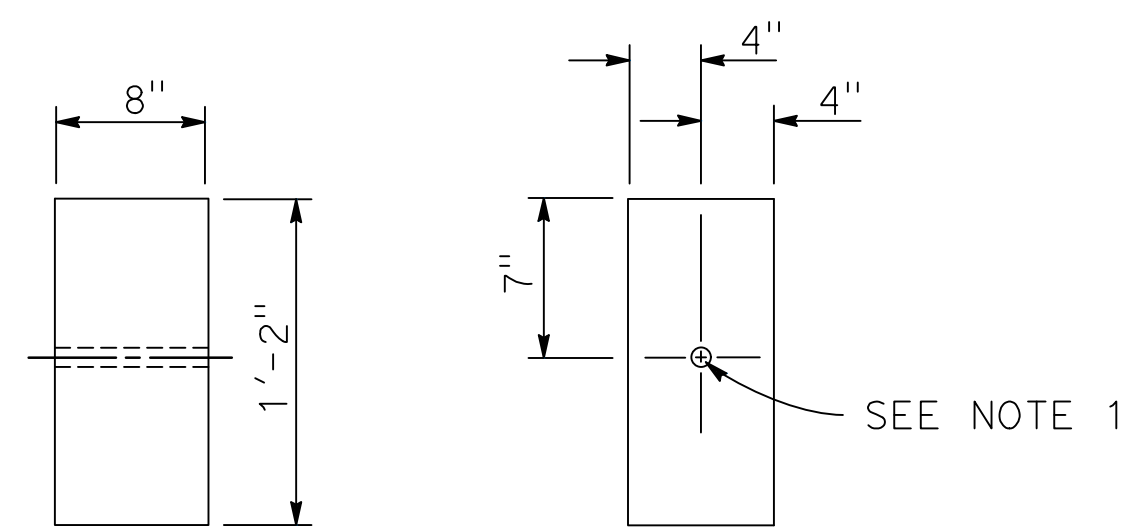
SIDE FRONT
10" x 10" WOOD POST
See Note 5

NOTES:

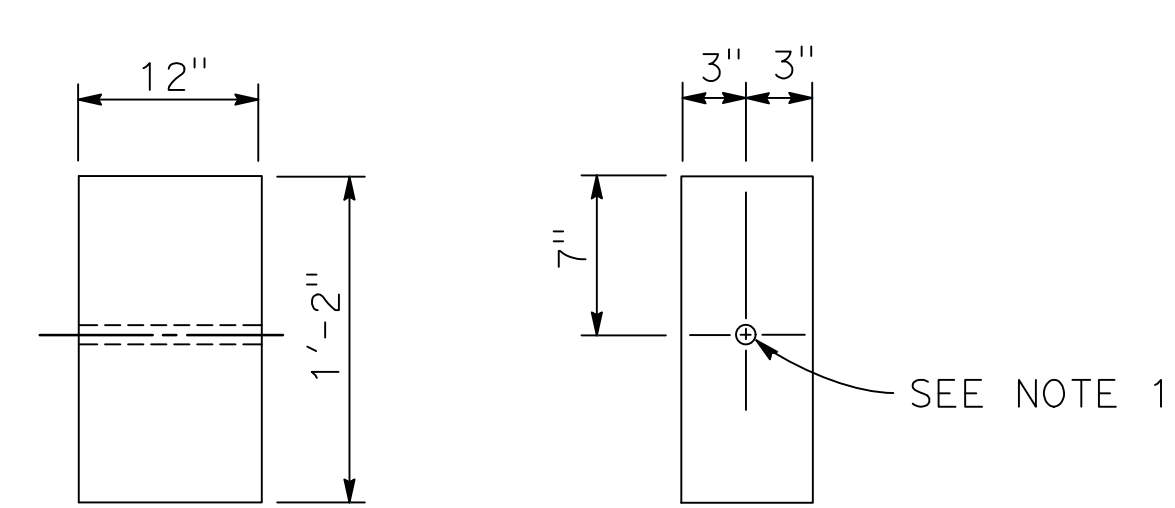
1. All holes in wood posts and blocks shall be $\frac{3}{4}$ " Dia $\pm \frac{1}{16}$ ".
2. Dimensions shown for wood post are nominal.
3. This post and block combination used for standard line post sections of MGS.
4. This post and 8" x 12" block combination used for line post sections of MGS on narrow 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.



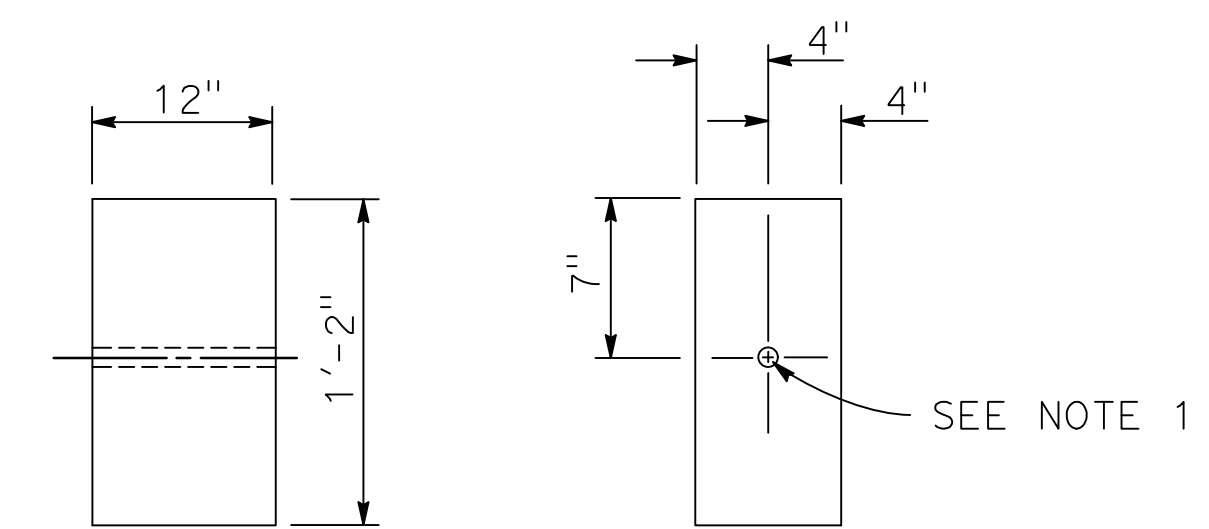
SIDE FRONT
6" x 8" WOOD BLOCK
See Note 6 and Note 3



SIDE FRONT
8" x 8" WOOD BLOCK
See Note 6 and Note 4



SIDE FRONT
6" x 12" WOOD BLOCK
See Note 8



SIDE FRONT
8" x 12" WOOD BLOCK
See Note 7

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

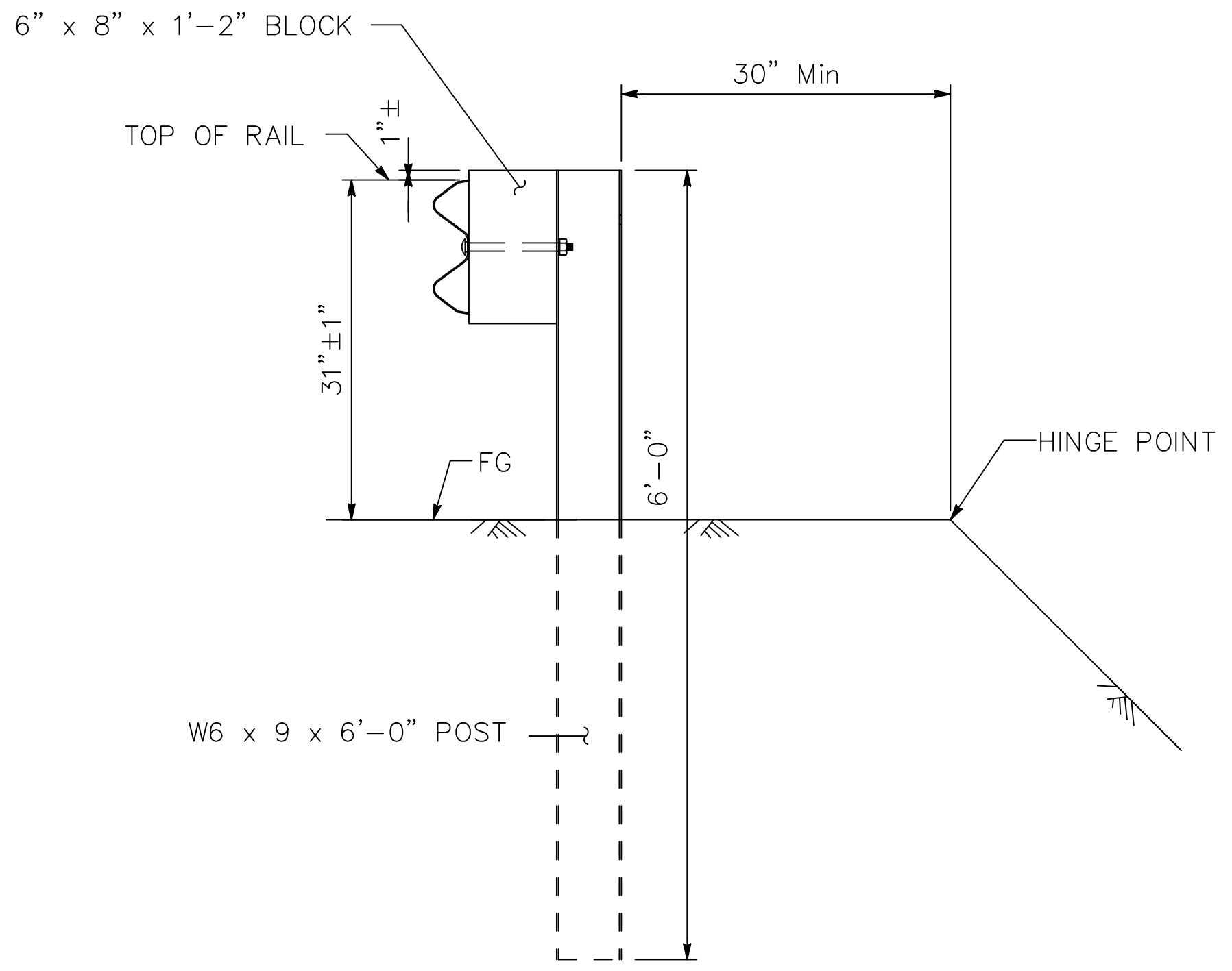
2022 REVISED STANDARD PLAN RSP A77N1

DATE PLOTTED = 5/31/23
TIME PLOTTED = 9:41:25 AM

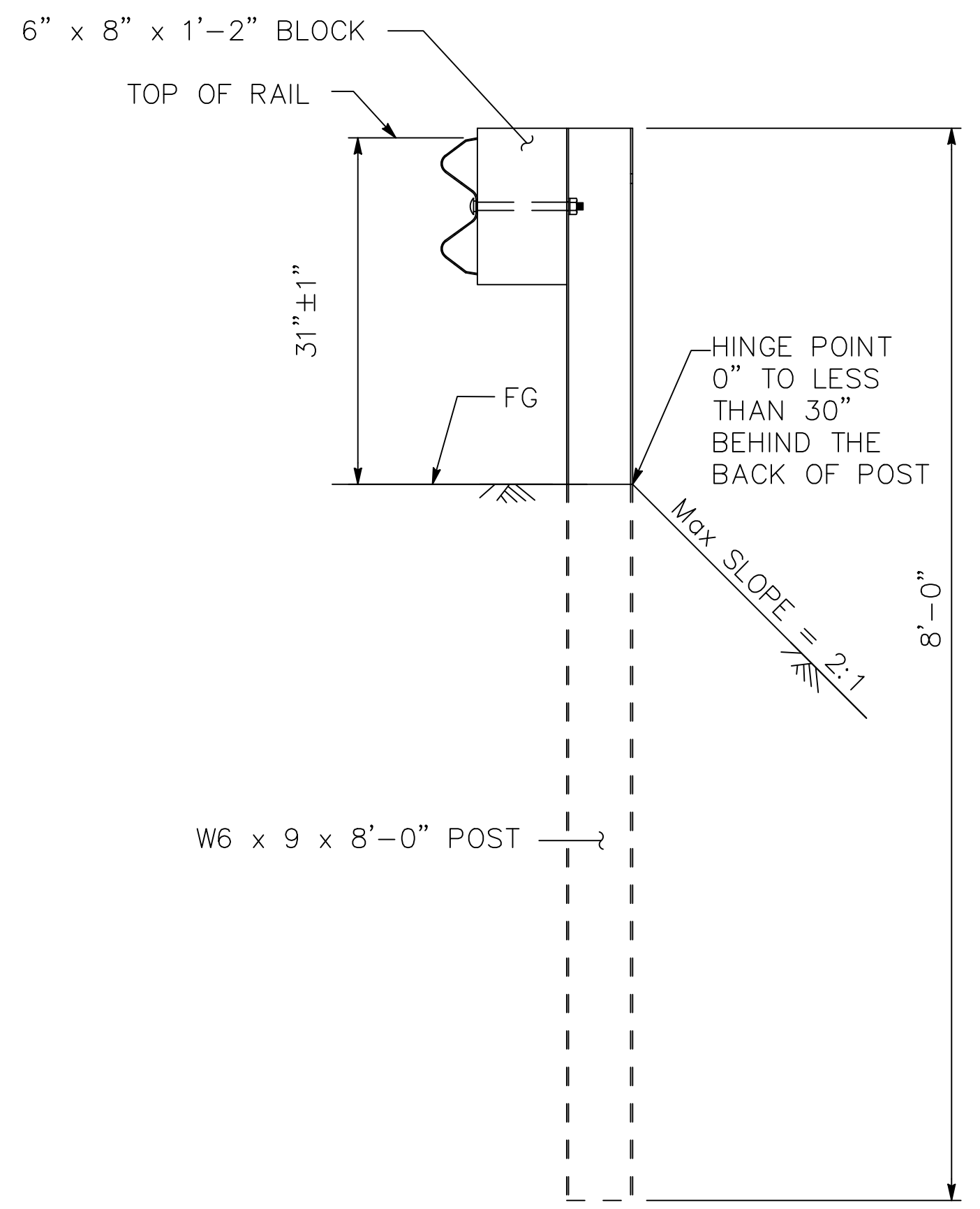
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 03 | Gle | CR 67 | N/A | 16 | 33 |

| | |
|---|------------------|
| <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

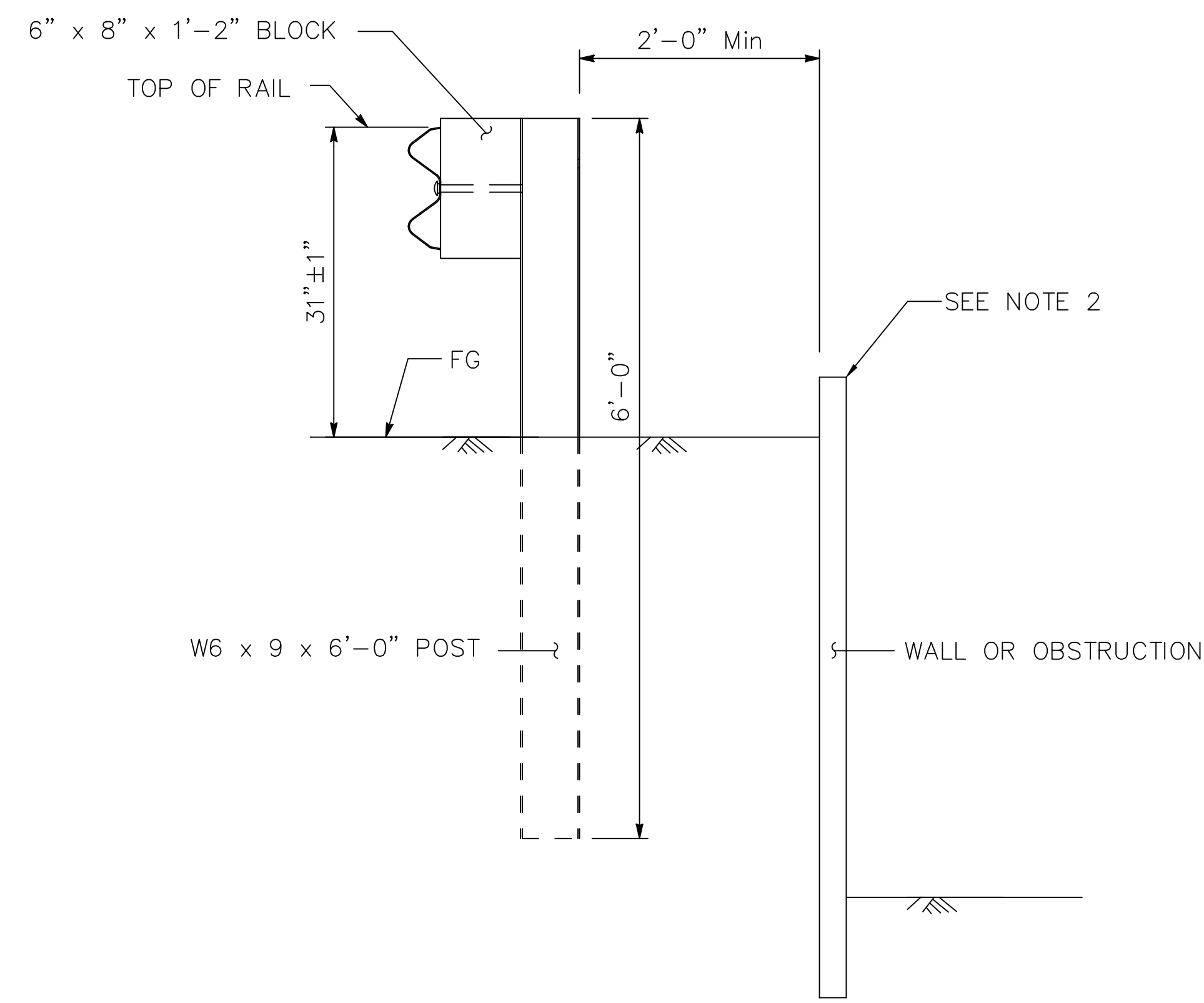


DETAIL A
TYPICAL ROADWAY INSTALLATION
See Note 1

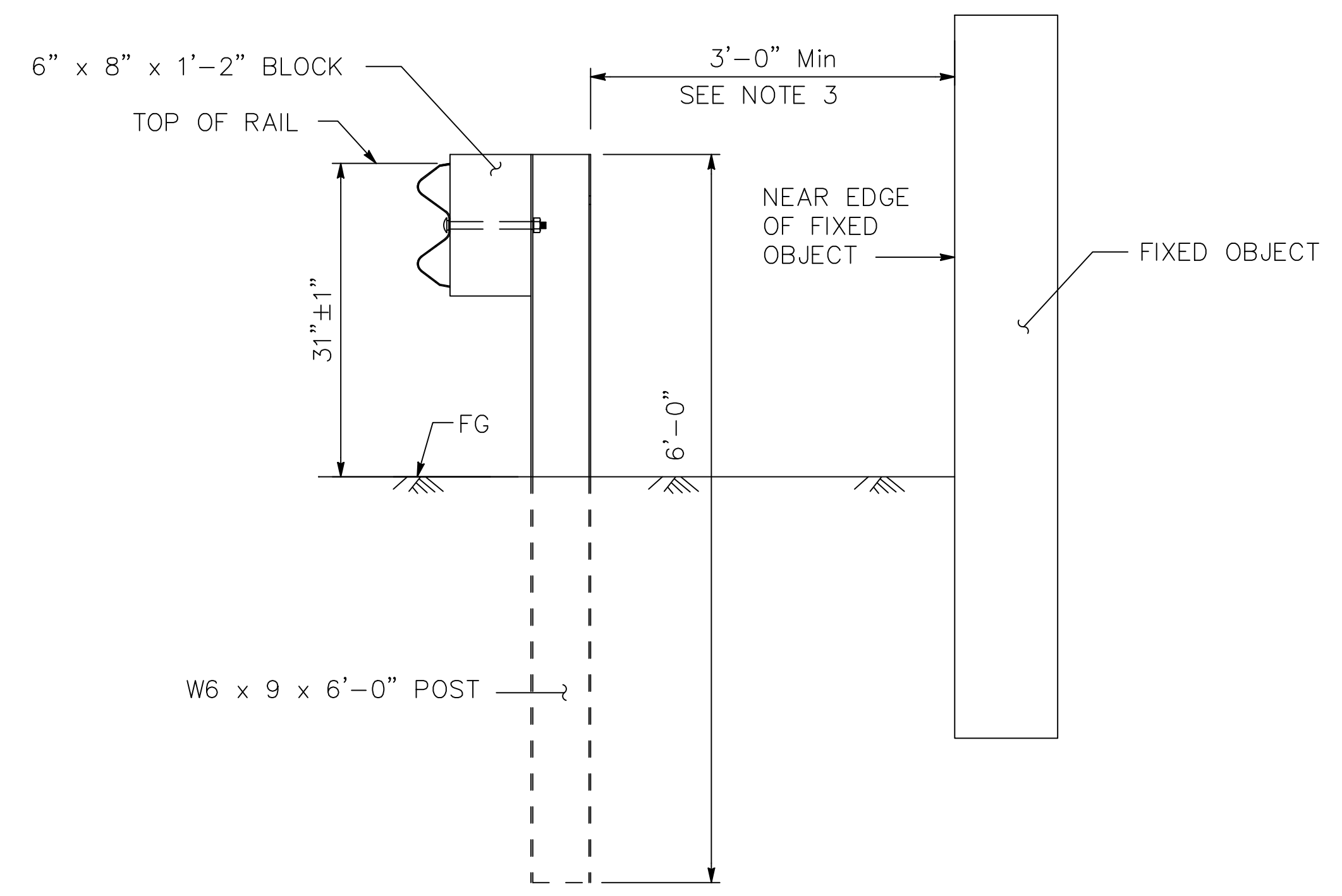


DETAIL B
NARROW ROADWAY INSTALLATION
See Note 1

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

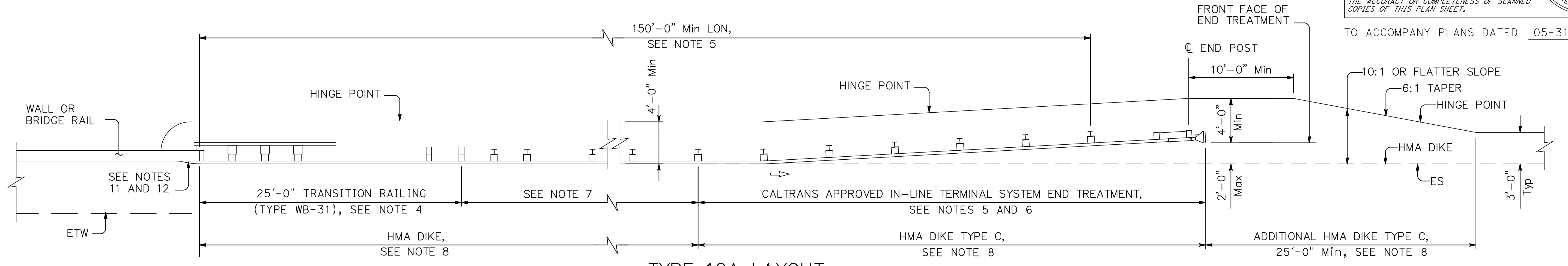
DATE PLOTTED = 5/31/23
TIME PLOTTED = 9:43:11 AM

| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 03 | Gle | CR 67 | N/A | 17 | 33 |

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

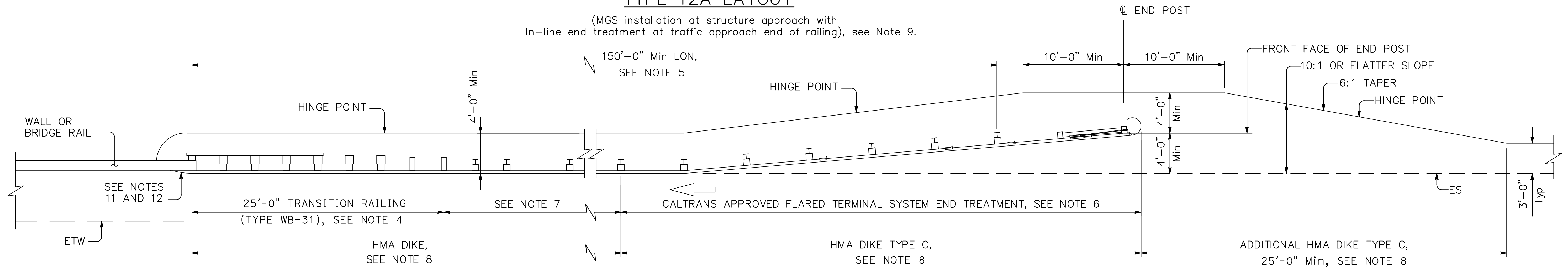
GARY M. GORDON
 No. 42176
 Exp. 03-31-24
 CIVIL
 STATE OF CALIFORNIA

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.



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

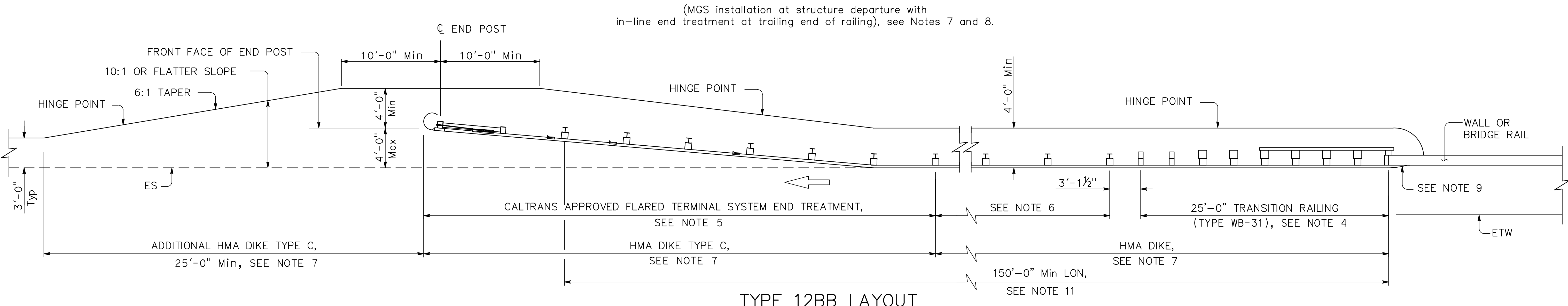
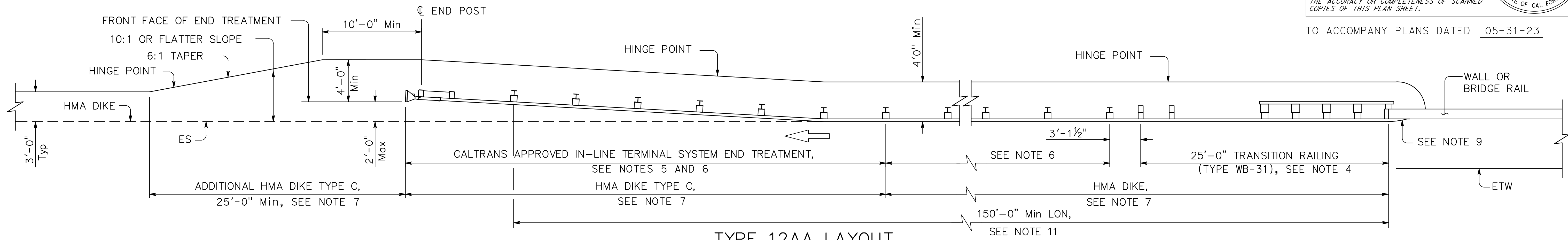
2022 REVISED STANDARD PLAN RSP A77Q1

DATE PLOTTED = 5/31/23
 TIME PLOTTED = 9:44:40 AM

| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 03 | Gle | CR 67 | N/A | 18 | 33 |

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 CAL FORM #

TO ACCOMPANY PLANS DATED 05-31-23



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 = 9:46:06 AM

LEGEND

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

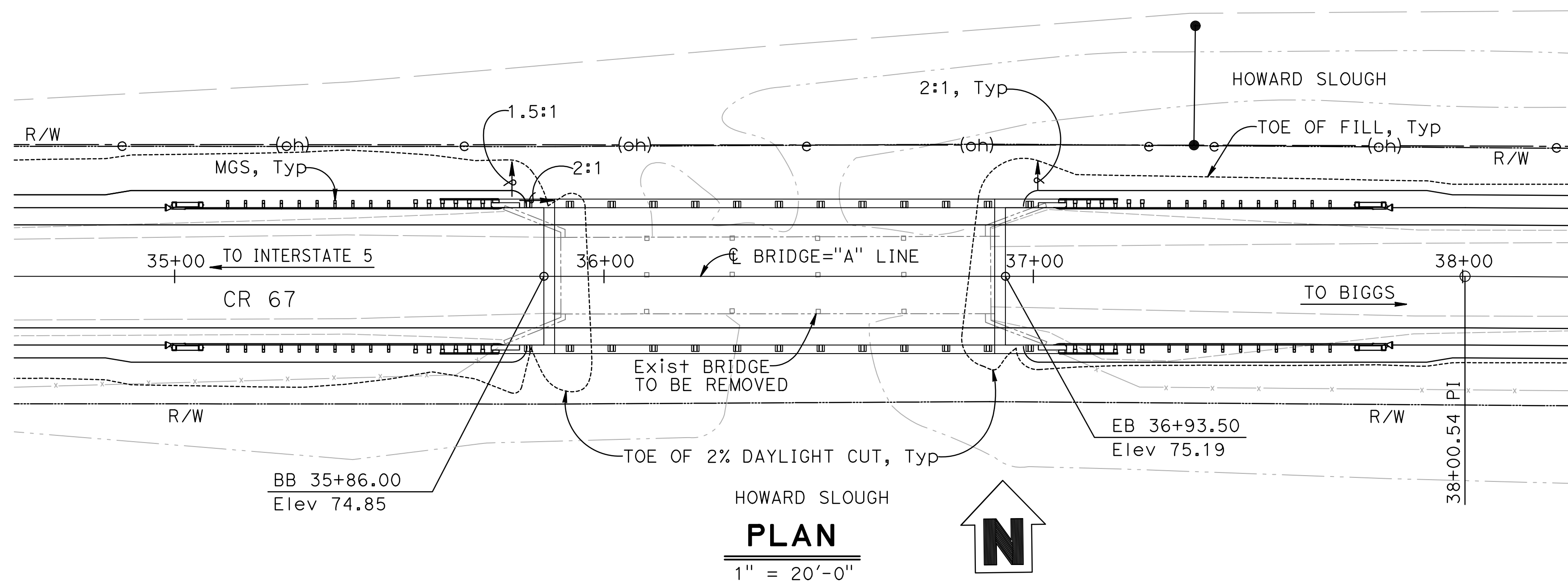
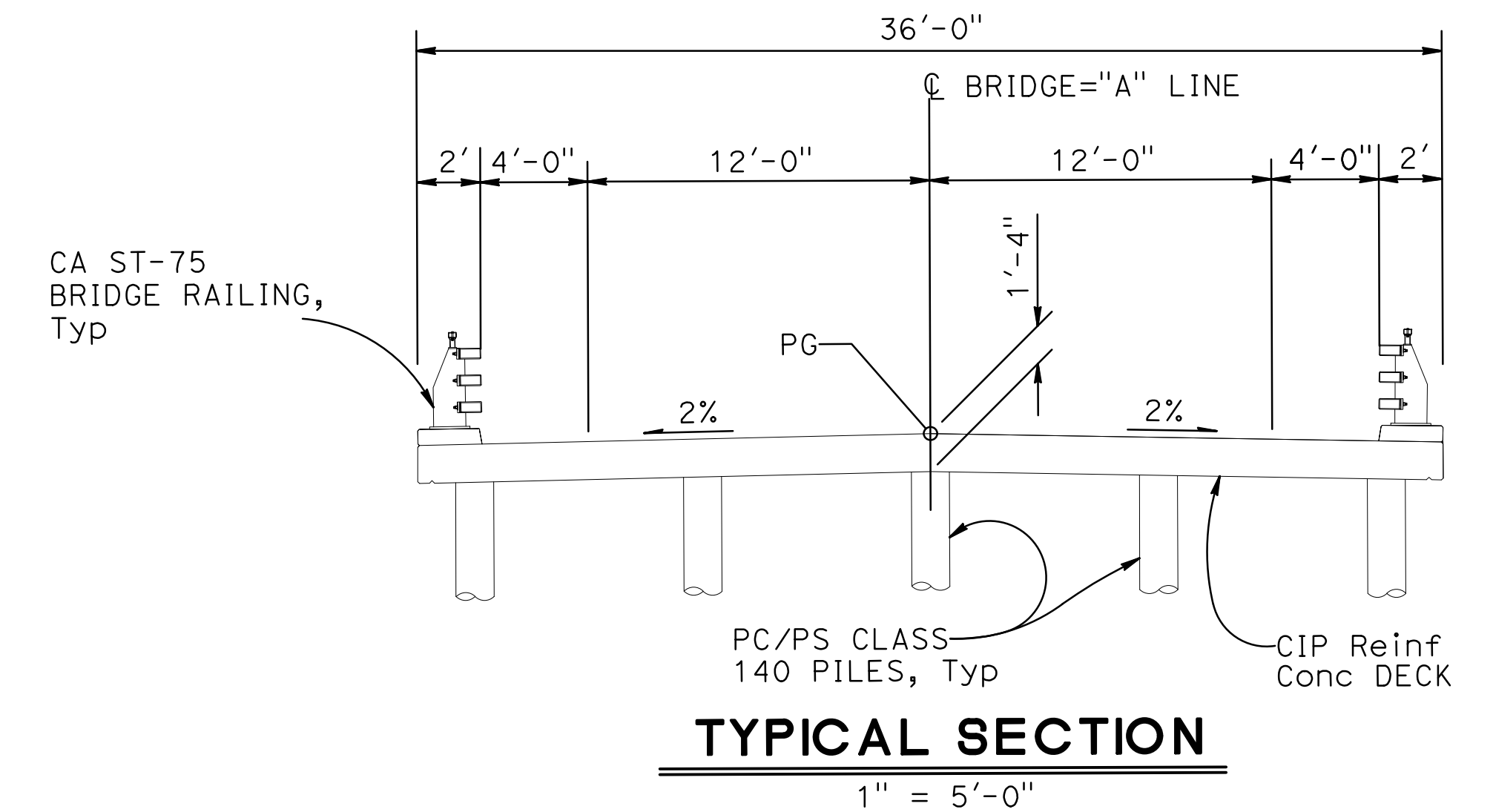
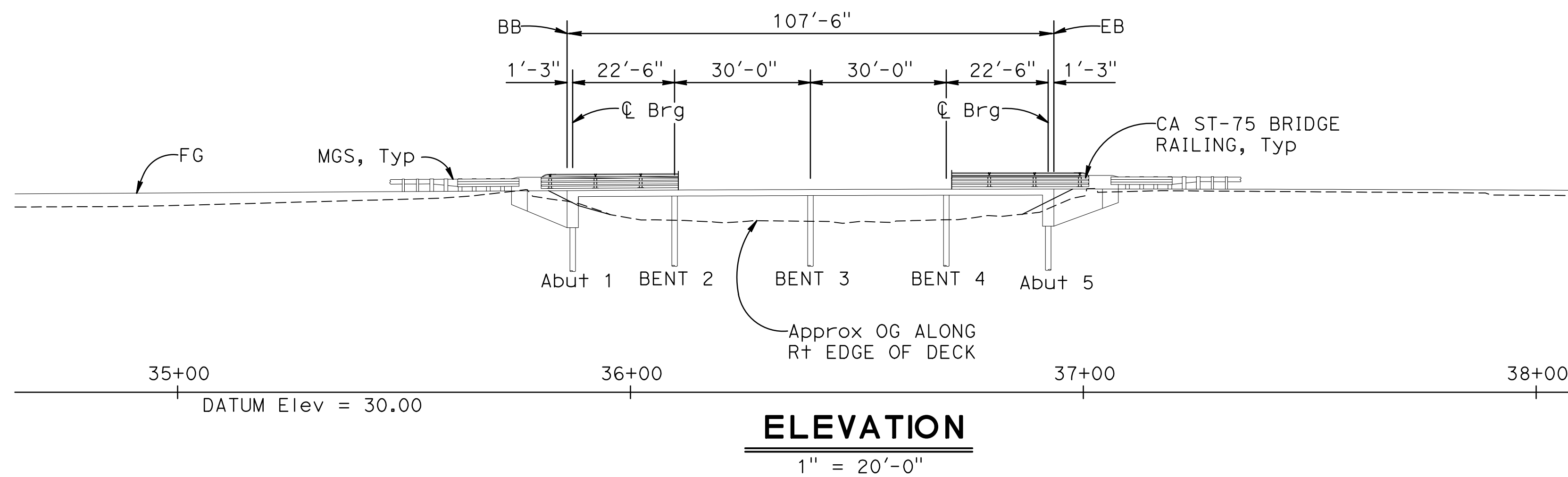
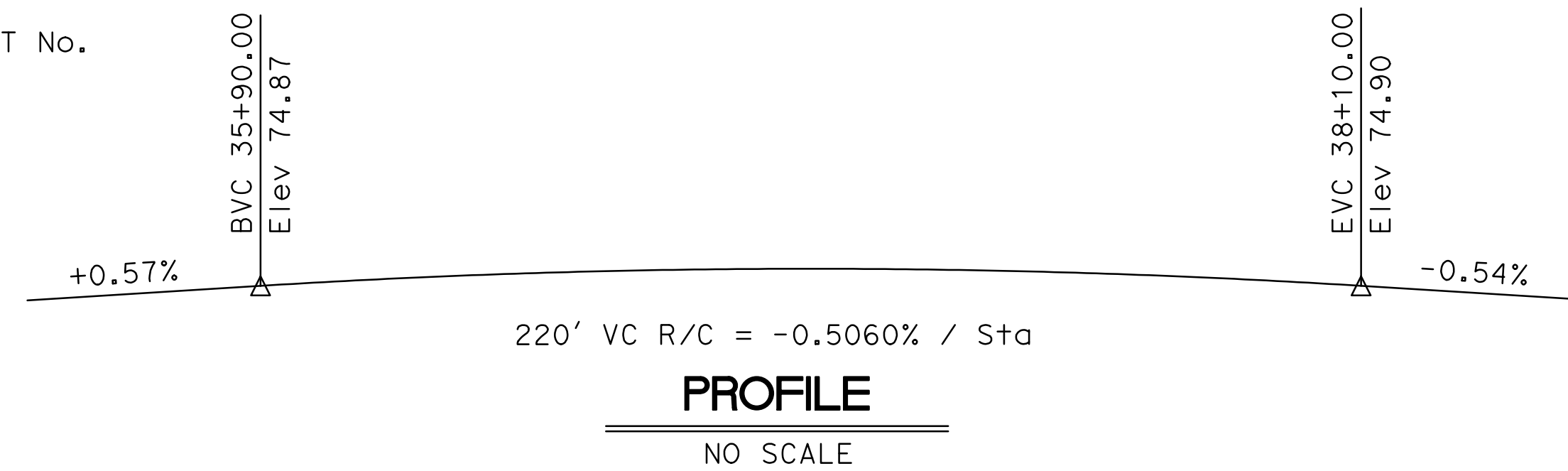
CALTRANS STANDARD PLANS, 2022 EDITION

- 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

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 03 | Gle | CR 67 | NA | 19 | 33 |

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



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 | CALIFORNIA ST-75 BRIDGE RAIL DETAILS No. 1 |
| 9 | CALIFORNIA ST-75 BRIDGE RAIL DETAILS No. 2 |
| 10 | CALIFORNIA ST-75 BRIDGE RAIL DETAILS No. 3 |
| 11 | CALIFORNIA ST-75 BRIDGE RAIL DETAILS No. 4 |
| 12 | CALIFORNIA ST-75 BRIDGE RAIL DETAILS No. 5 |
| 13 | SOIL LEGEND 1 OF 2 |
| 14 | SOIL LEGEND 2 OF 2 |
| 15 | LOG OF TEST BORINGS |

| | | | | |
|------------|-----------------|----------------------|---------------------------------|---|
| DESIGN | BY J. DeMARTINI | CHECKED M. ILEY | LOAD & RESISTANCE FACTOR DESIGN | LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE |
| DETAILS | BY R. UHLMANN | CHECKED J. DeMARTINI | LAYOUT | BY R. UHLMANN |
| QUANTITIES | BY J. DeMARTINI | CHECKED R. UHLMANN | SPECIFICATIONS | BY X |

PREPARED FOR
COUNTY OF GLENN
 PUBLIC WORKS AGENCY

G. GORDON
 PROJECT ENGINEER

| | |
|------------|---------|
| BRIDGE NO. | 11C0017 |
| POST MILES | NA |

BRANCH HOWARD SLOUGH BRIDGE (REPLACE)

GENERAL PLAN

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



DISREGARD PRINTS BEARING EARLIER REVISION DATES

| REVISION DATES | SHEET | OF |
|----------------------------|-------|----|
| 11/01/14 01/28/17 05/31/23 | 1 | 15 |

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 03 | Glenn | CR 67 | NA | 20 | 33 |

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

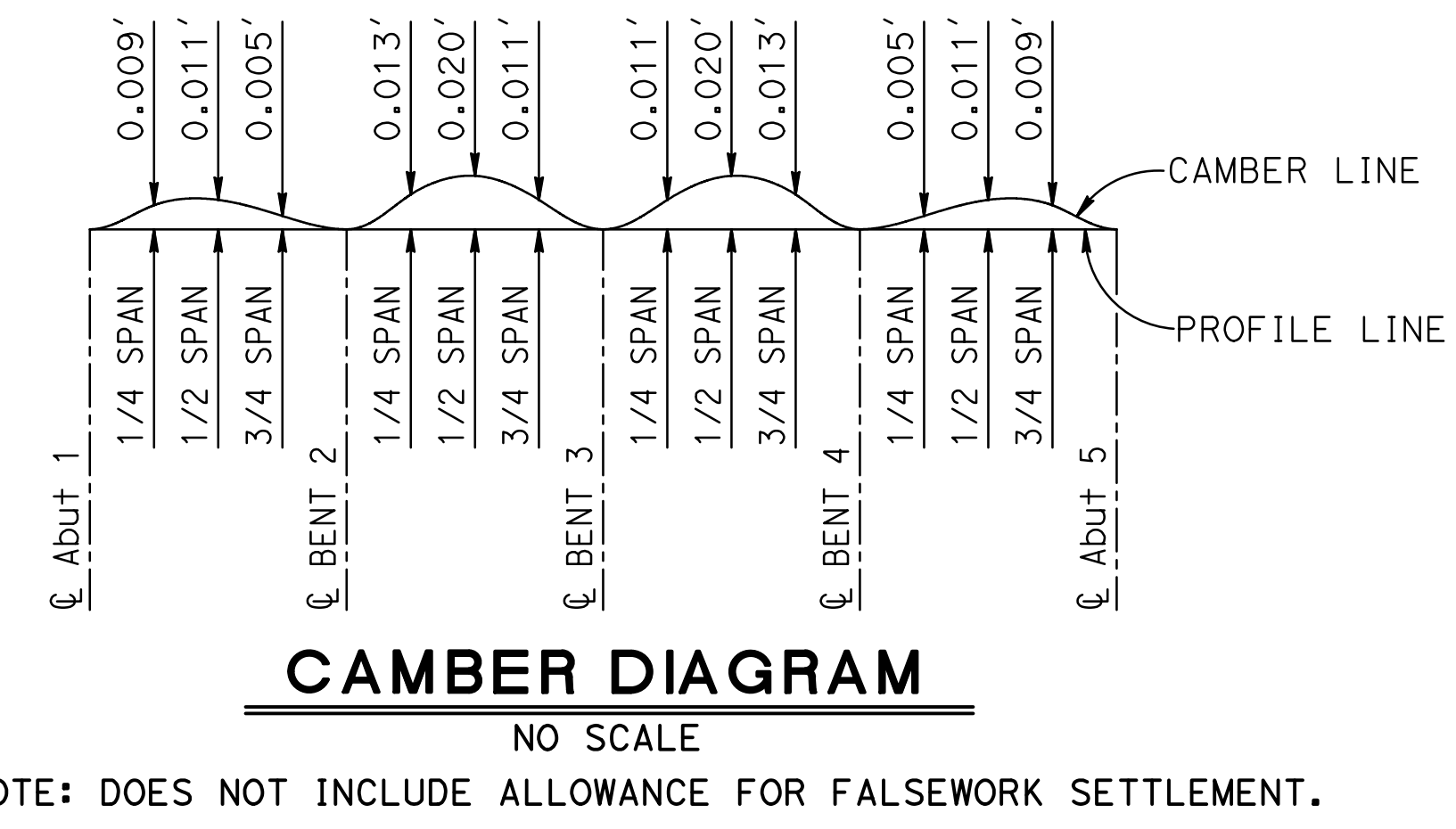
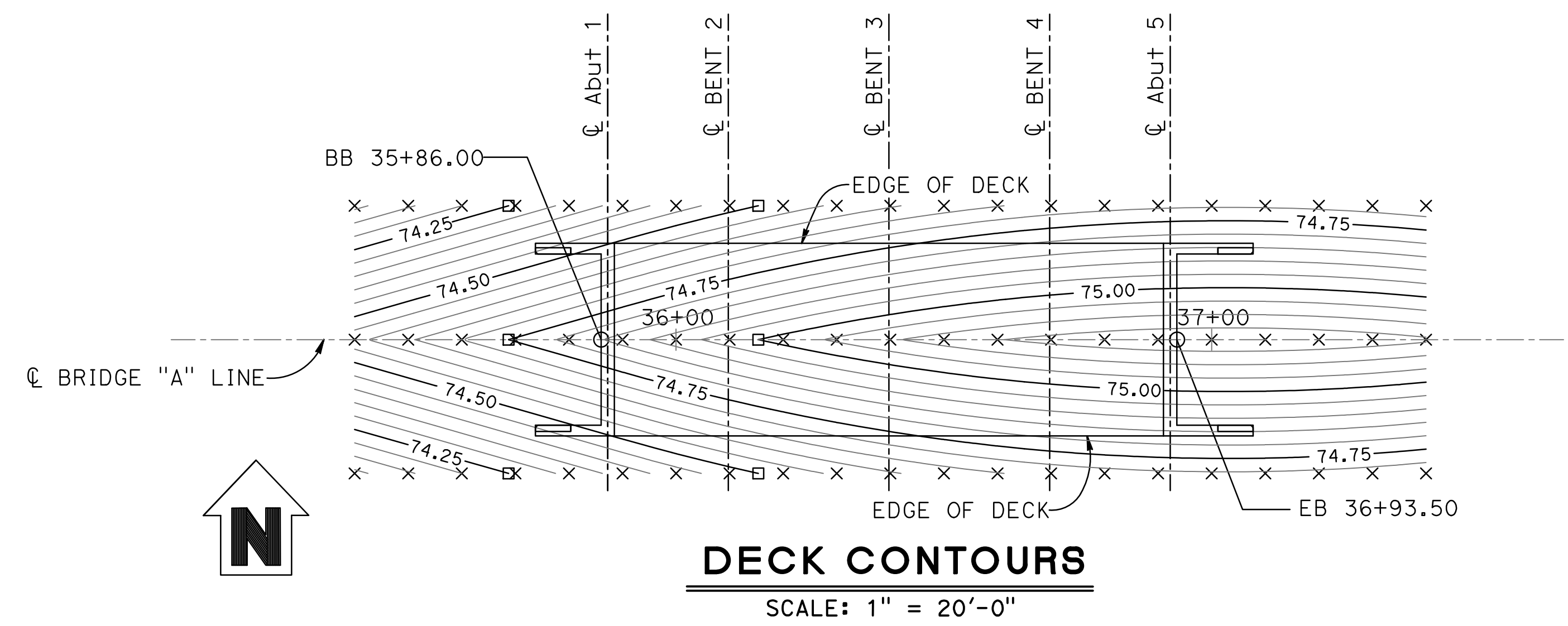
05-31-23
DATE

REGISTERED CIVIL ENGINEER

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



**GENERAL NOTES
LOAD AND RESISTANCE FACTOR DESIGN**

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

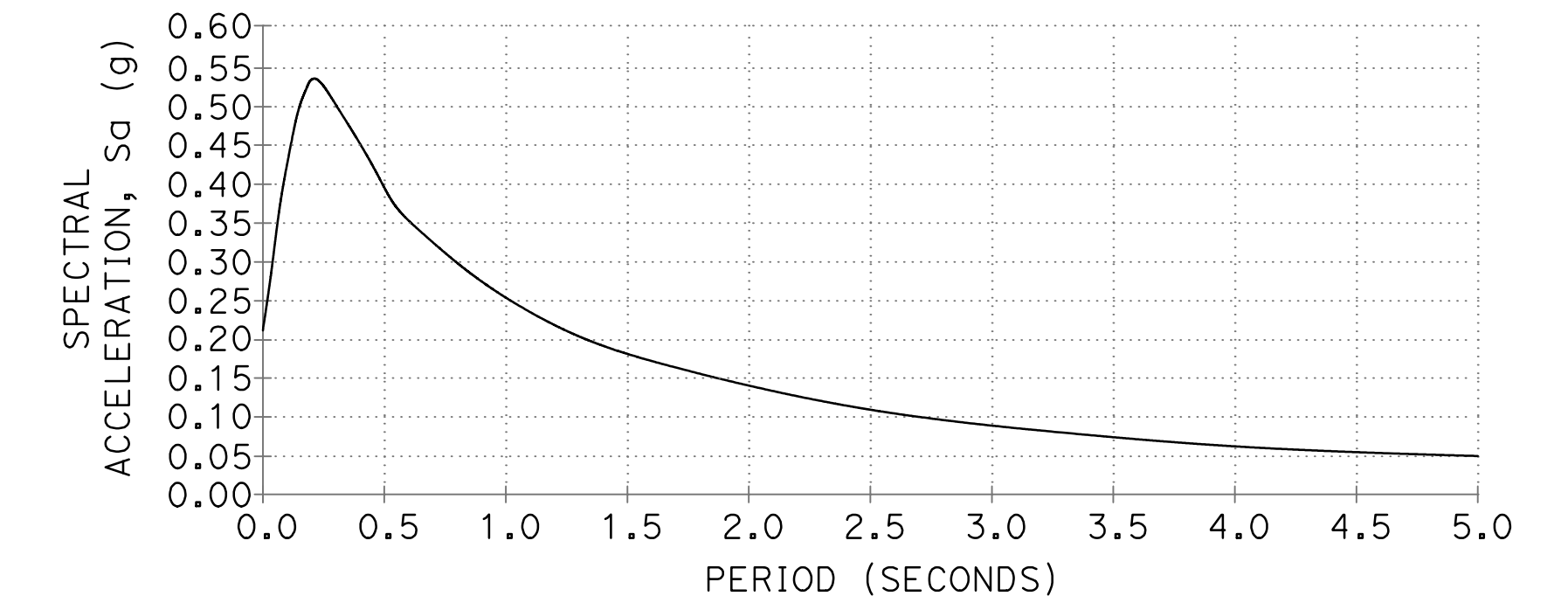
SEISMIC DESIGN: Caltrans Seismic Design Criteria (SDC), Version 1.7 dated April 2013.

DEAD LOAD: Includes 35 psf for future wearing surface.

LIVE LOADING: HL93 and permit design load.

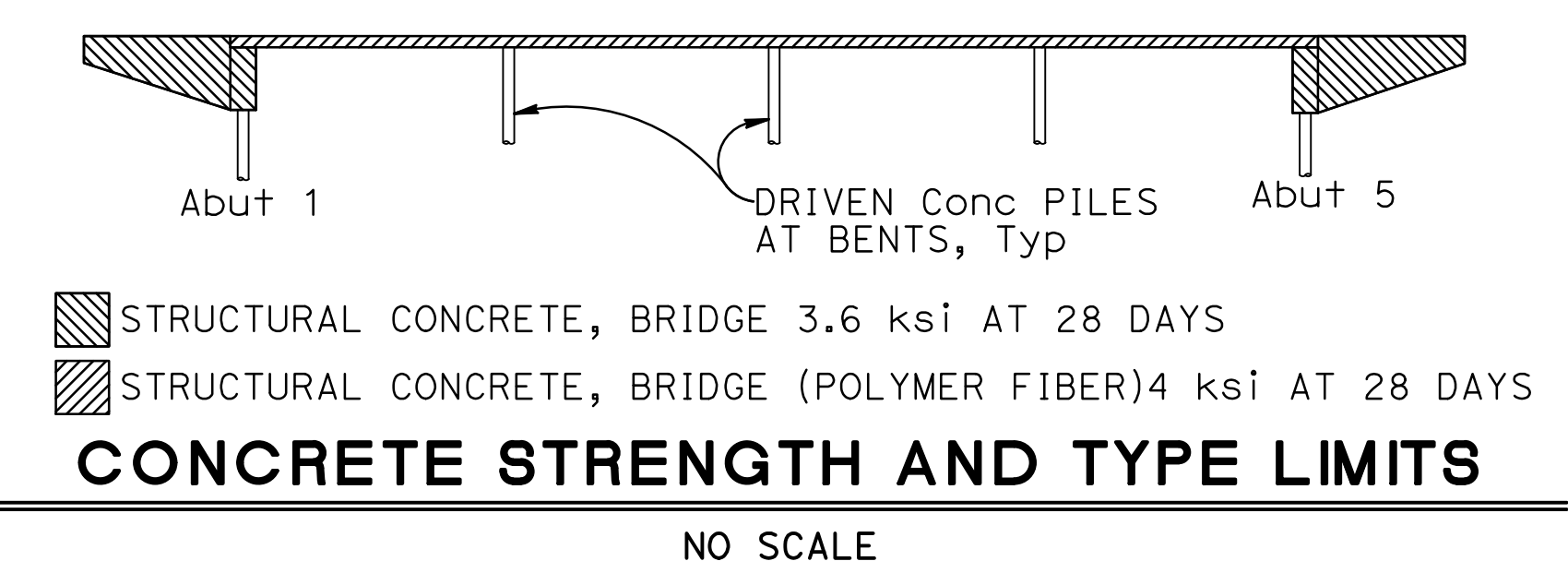
SEISMIC LOADING: Soil Profile: C
Moment Magnitude: 6.7
Peak Ground Acceleration = 0.22 g

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



APPROXIMATE QUANTITIES

| ITEM CODE | ITEM DESCRIPTION | QUANTITY | UNIT |
|-----------|---|----------|------|
| 157550 | BRIDGE REMOVAL | 1 | LS |
| 192020 | STRUCTURE EXCAVATION (TYPE D) | 92 | CY |
| 193003 | STRUCTURE BACKFILL (BRIDGE) | 54 | CY |
| 490736 | FURNISH PILING (CLASS 90) | 117 | LF |
| 490737 | DRIVE PILE (CLASS 90) | 10 | EA |
| 490746 | FURNISH PILING (CLASS 140) | 728 | LF |
| 490747 | DRIVE PILE (CLASS 140) | 15 | EA |
| 510053 | STRUCTURAL CONCRETE, BRIDGE | 63 | CY |
| 510054 | STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER) | 191 | CY |
| 520102 | BAR REINFORCING STEEL (BRIDGE) | 54,200 | Lbs |
| 048290 | CALIFORNIA ST-75 BRIDGE RAIL | 268 | LF |



| | | | | |
|--|----------------------|---|----------------------------|--|
| DESIGN BY J. DeMARTINI | CHECKED M. ILEY | PREPARED FOR COUNTY OF GLENN PUBLIC WORKS AGENCY | BRIDGE NO. 11C0017 | BRANCH HOWARD SLOUGH BRIDGE (REPLACE) |
| DETAILS BY R. UHLMANN | CHECKED J. DeMARTINI | | PROJECT ENGINEER G. GORDON | |
| QUANTITIES BY J. DeMARTINI | CHECKED R. UHLMANN | | POST MILES NA | |
| ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | | REVISION DATES | SHEET 2 OF 15 |

11/16/14 07/28/17 05/31/23

FILE => 11-0017-d-dc01

DATE PLOTTED => 5/31/2023 11:30:07 AM USERNAME => KEVIN

BENCH MARK

Horizontal Datum NAD83

Vertical Datum NAVD88

HYDROLOGIC SUMMARY

| | |
|---|--------------|
| DRAINAGE AREA | 118 SQ ACRES |
| FREQUENCY, YEARS | 50 |
| DISCHARGE CUBIC ft/sec. | 14.00 |
| WATER SURFACE ELEVATION AT BRIDGE | 68.14 |
| DESIGN FLOOD | 100 |
| BASE FLOOD | X |
| OVERTOPPING FLOOD | X |
| RECORD FLOOD | 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.

LEGEND

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

NOTES

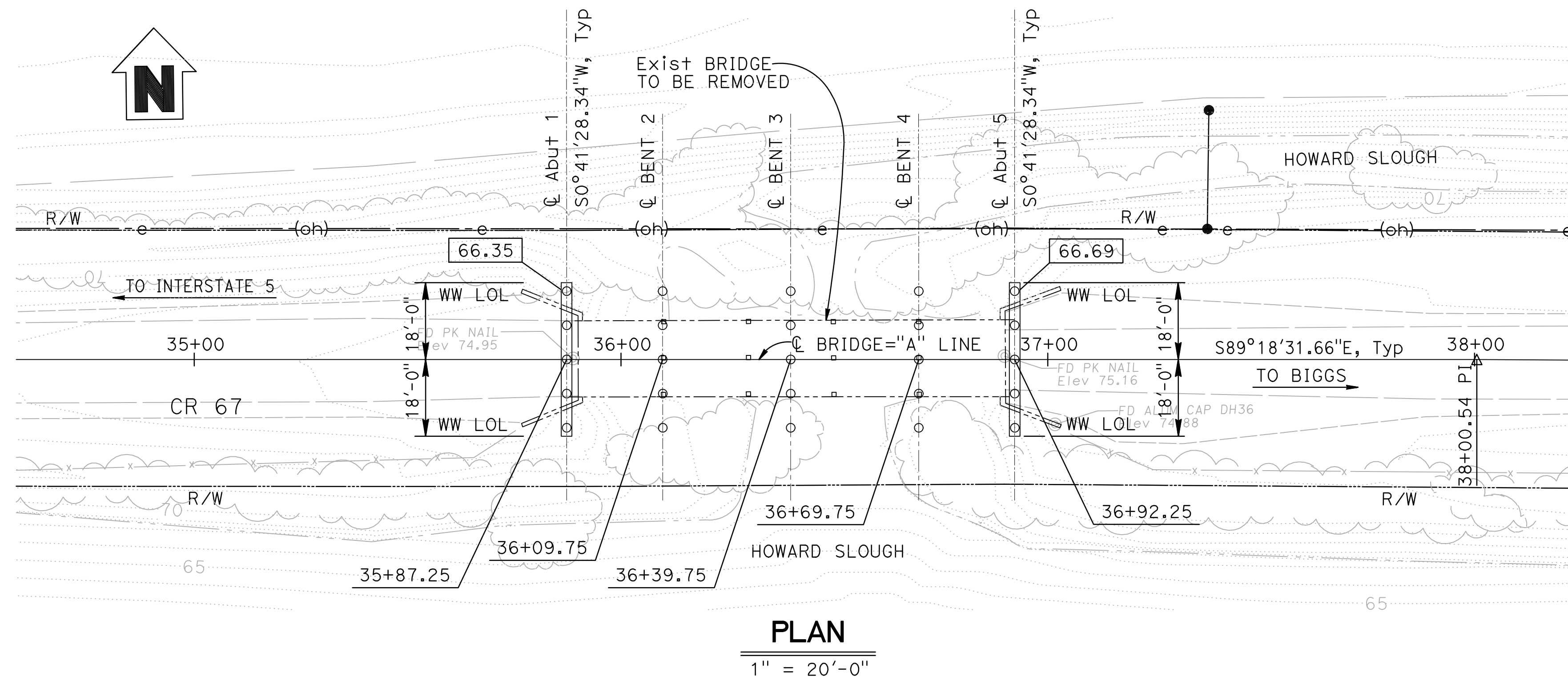
1. Utility relocation not shown. Utilities in conflict with piles will be relocated for bridge construction.

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 03 | Glenn | CR 67 | NA | 21 | 33 |

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

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



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 | 43.00 (1) | 43.00 | 66.60 | 66.60 | 66.60 | 66.60 | 66.60 |
| BENT 2 | CLASS 140 | 140 kips | 280 kips | 140 | 33.00 (1) | 33.00 | 73.44 | 73.58 | 73.72 | 73.58 | 73.44 |
| BENT 3 | CLASS 140 | 140 kips | 280 kips | 140 | 33.00 (1) | 33.00 | 73.56 | 73.70 | 73.84 | 73.70 | 73.56 |
| BENT 4 | CLASS 140 | 140 kips | 280 kips | 140 | 33.00 (1) | 33.00 | 73.64 | 73.78 | 73.92 | 73.78 | 73.64 |
| Abut 5 | CLASS 90 | 900 kips | 180 kips | 90 | 43.00 (1) | 43.00 | 66.94 | 66.94 | 66.94 | 66.94 | 66.94 |

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

| | | |
|------------------------------|------------------------|------------------|
| SCALE: 1"=30' | VERT.DATUM NAVD88 | HORZ.DATUM NAD83 |
| PHOTOGRAMMETRY AS OF: 06/12 | ALIGNMENT TIES X | |
| 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. | 11C0017 |
| POST MILES | NA |

BRANCH HOWARD SLOUGH BRIDGE (REPLACE)

FOUNDATION PLAN

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



DISREGARD PRINTS BEARING EARLIER REVISION DATES

| REVISION DATES | SHEET | OF |
|----------------------------|-------|----|
| 11/28/14 07/28/17 05/31/23 | 3 | 15 |

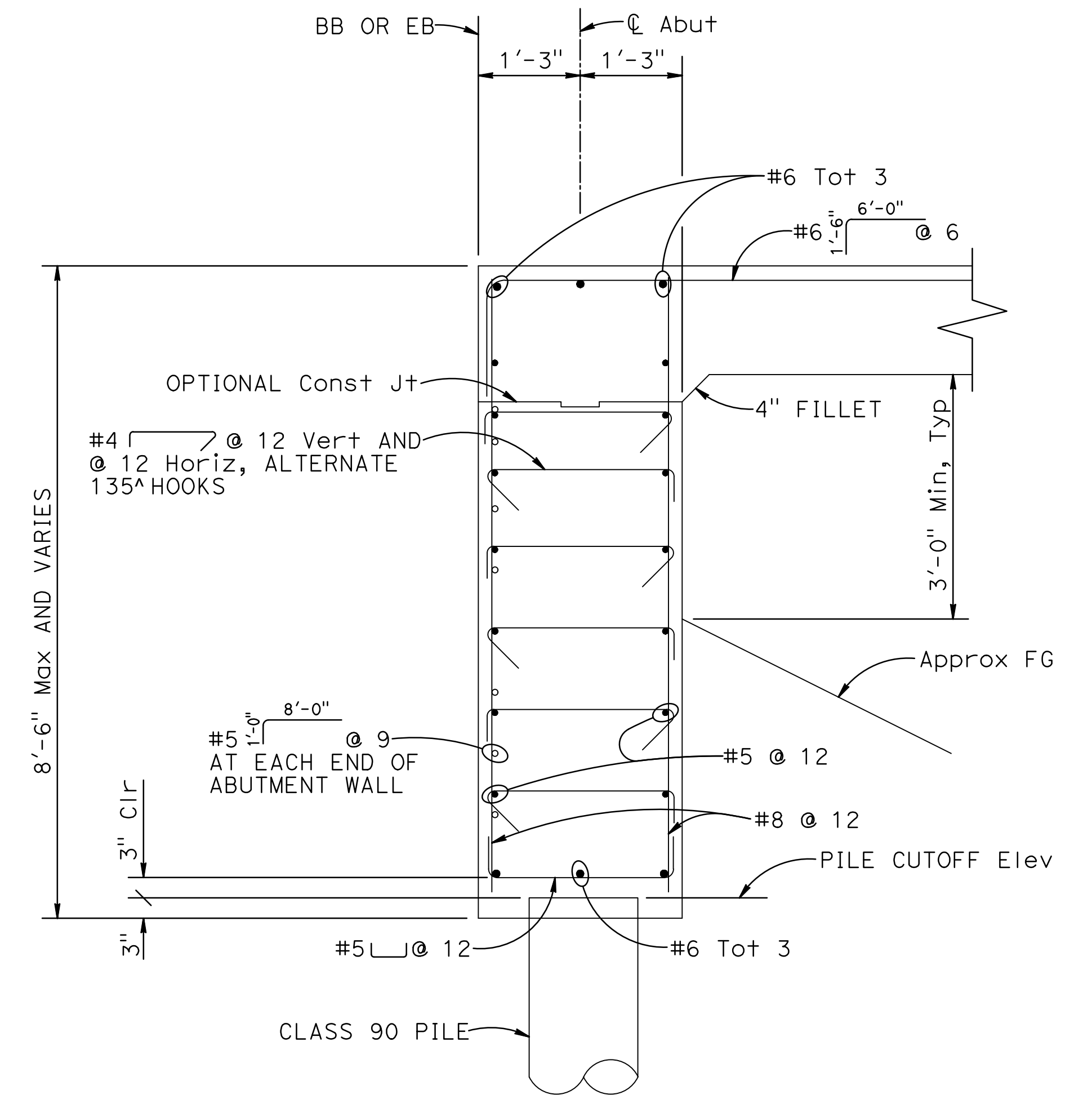
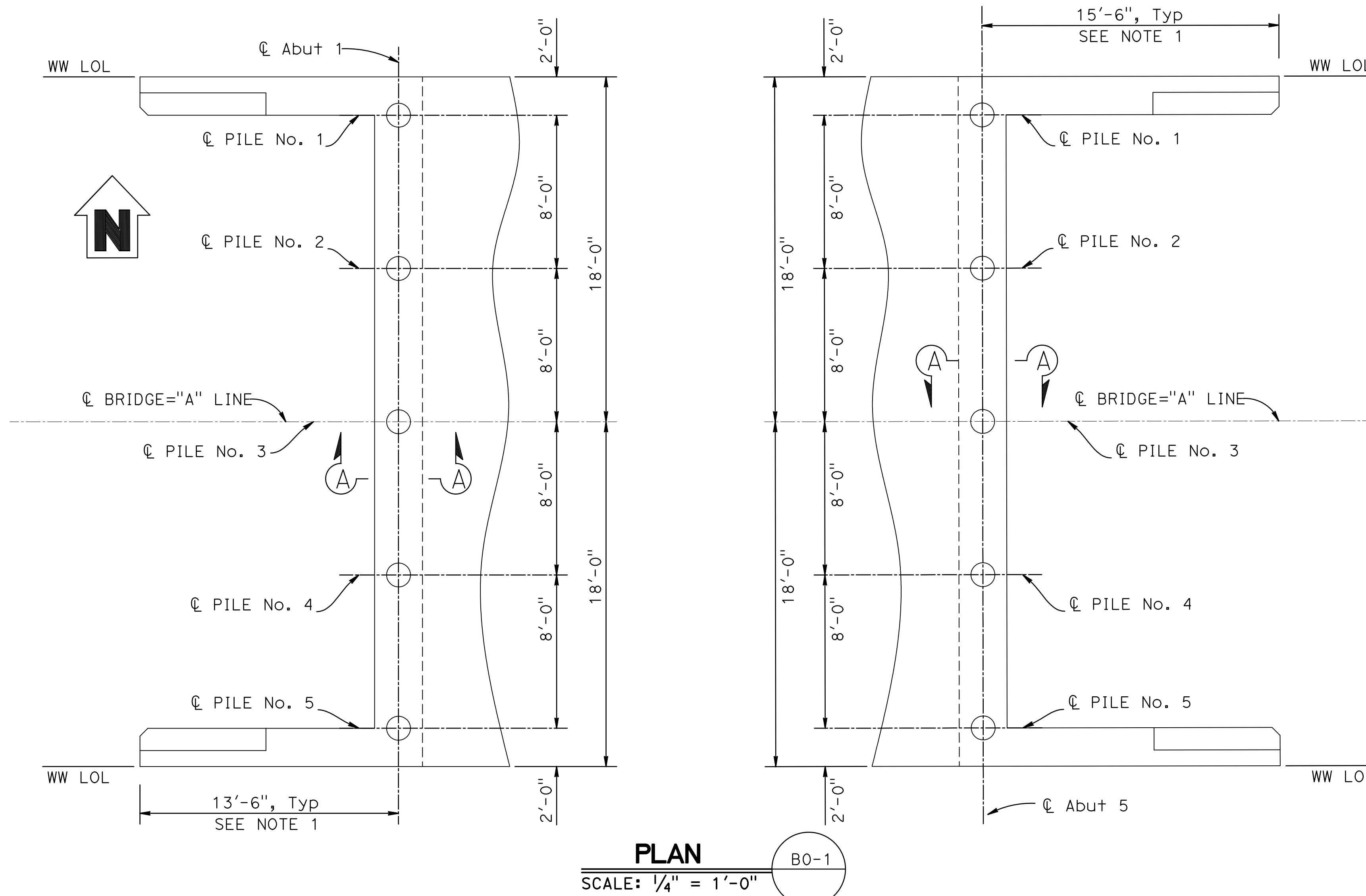
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 03 | Glenn | CR 67 | NA | 22 | 33 |

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



| | | |
|------------|-----------------|----------------------|
| 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. | 11C0017 |
| POST MILES | NA |

BRANCH HOWARD SLOUGH BRIDGE (REPLACE)
ABUTMENT LAYOUT

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



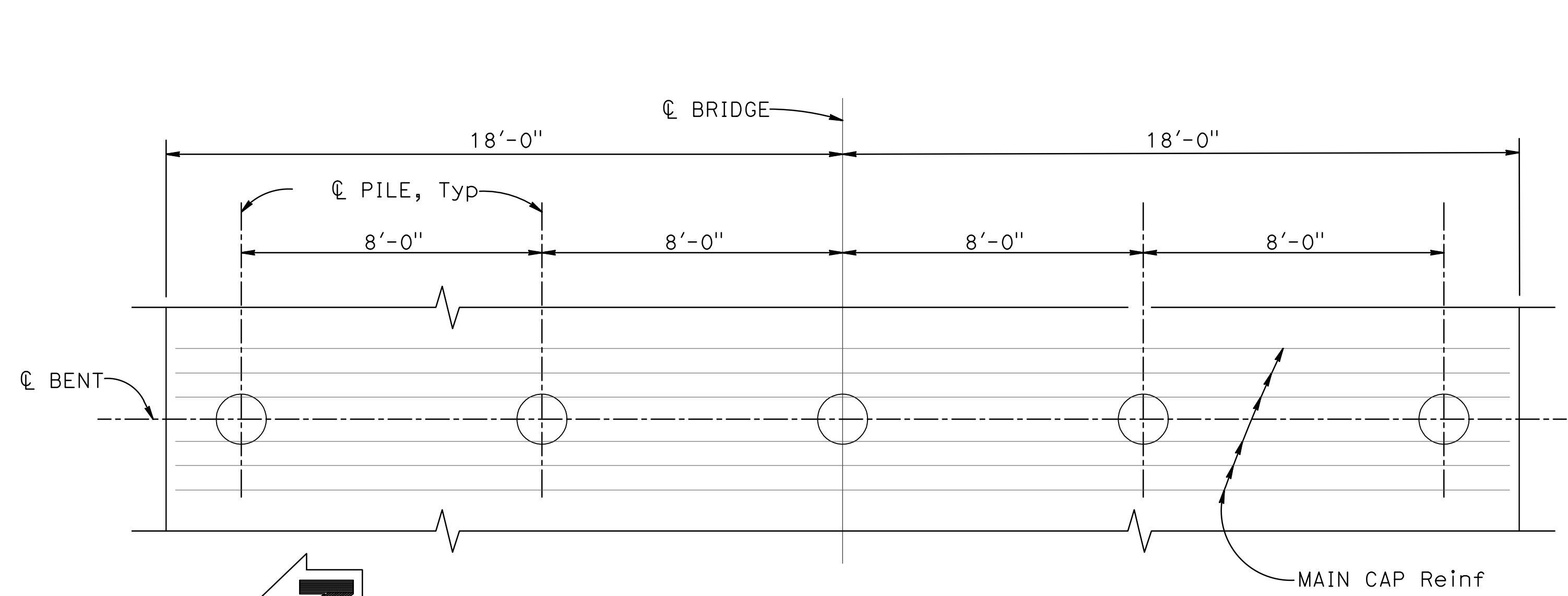
| | | | |
|---|----------------------------|-------|----|
| DISREGARD PRINTS BEARING EARLIER REVISION DATES | REVISION DATES | SHEET | OF |
| | 11/06/14 07/28/17 05/31/23 | 4 | 15 |

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 03 | Glenn | CR 67 | NA | 23 | 33 |

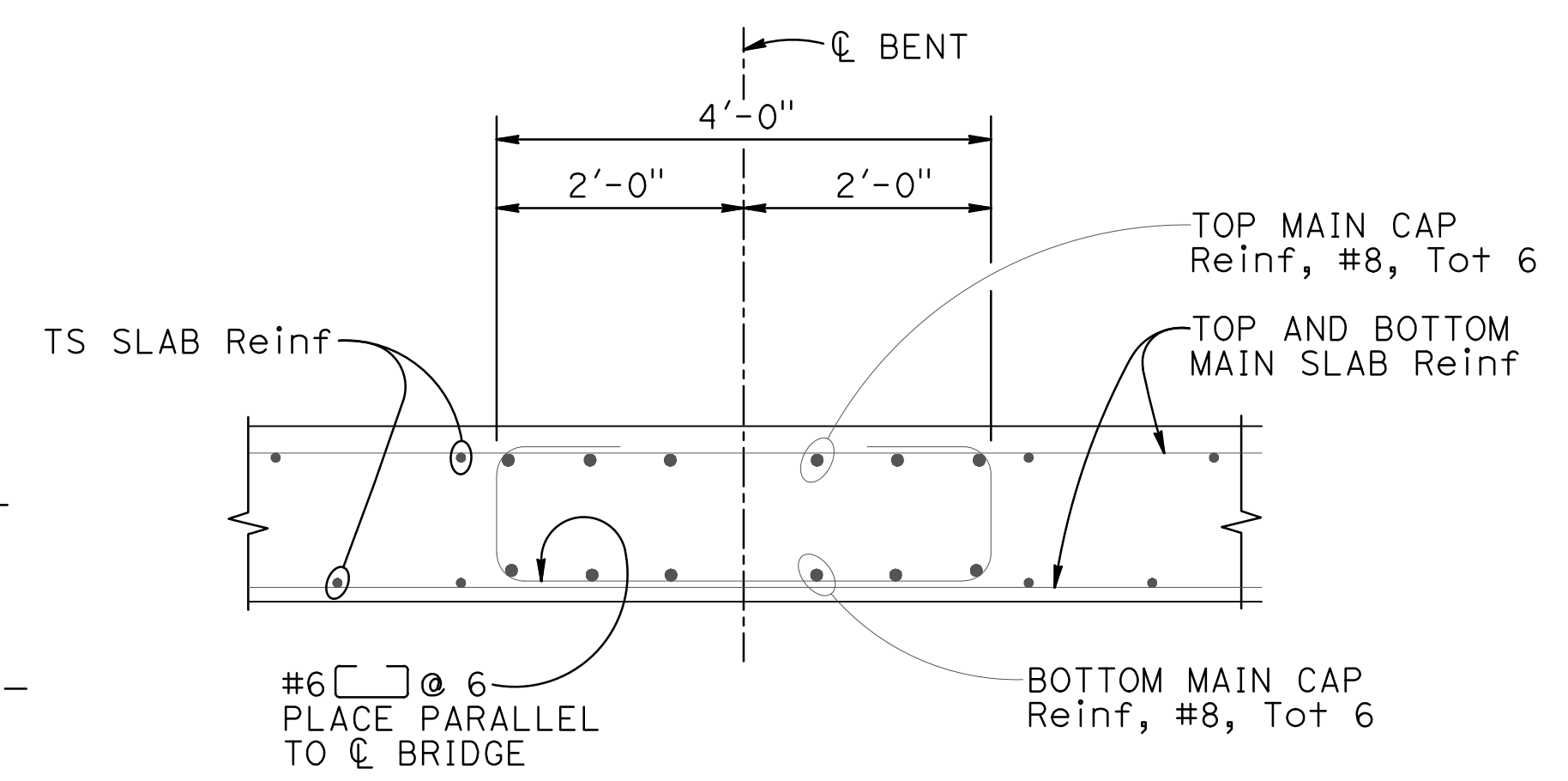
REGISTERED CIVIL ENGINEER
 DATE 05-31-23
 May 31, 2023
 PLANS APPROVAL DATE

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

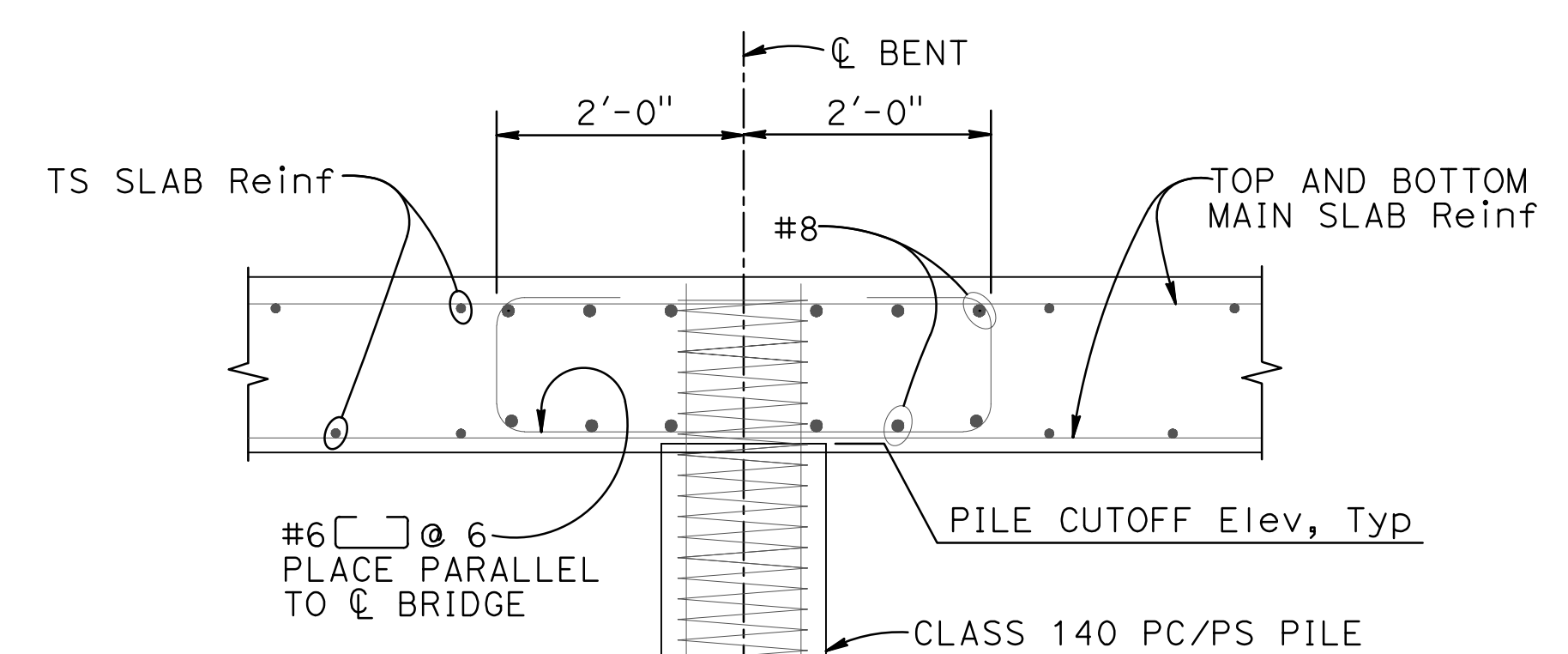
Prepared by:
 WILLDAN ENGINEERING
 2400 WASHINGTON AVENUE, SUITE 101
 REDDING, CALIFORNIA 96001



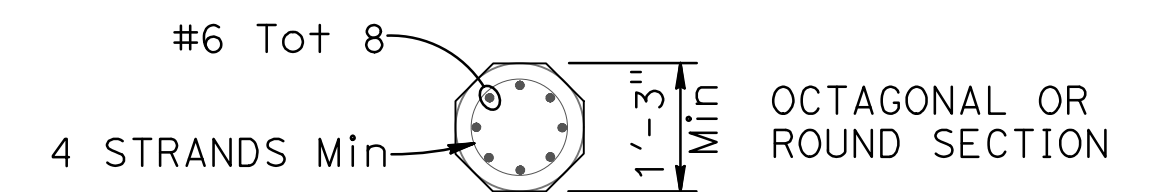
PLAN
 SCALE: 3/8" = 1'-0"



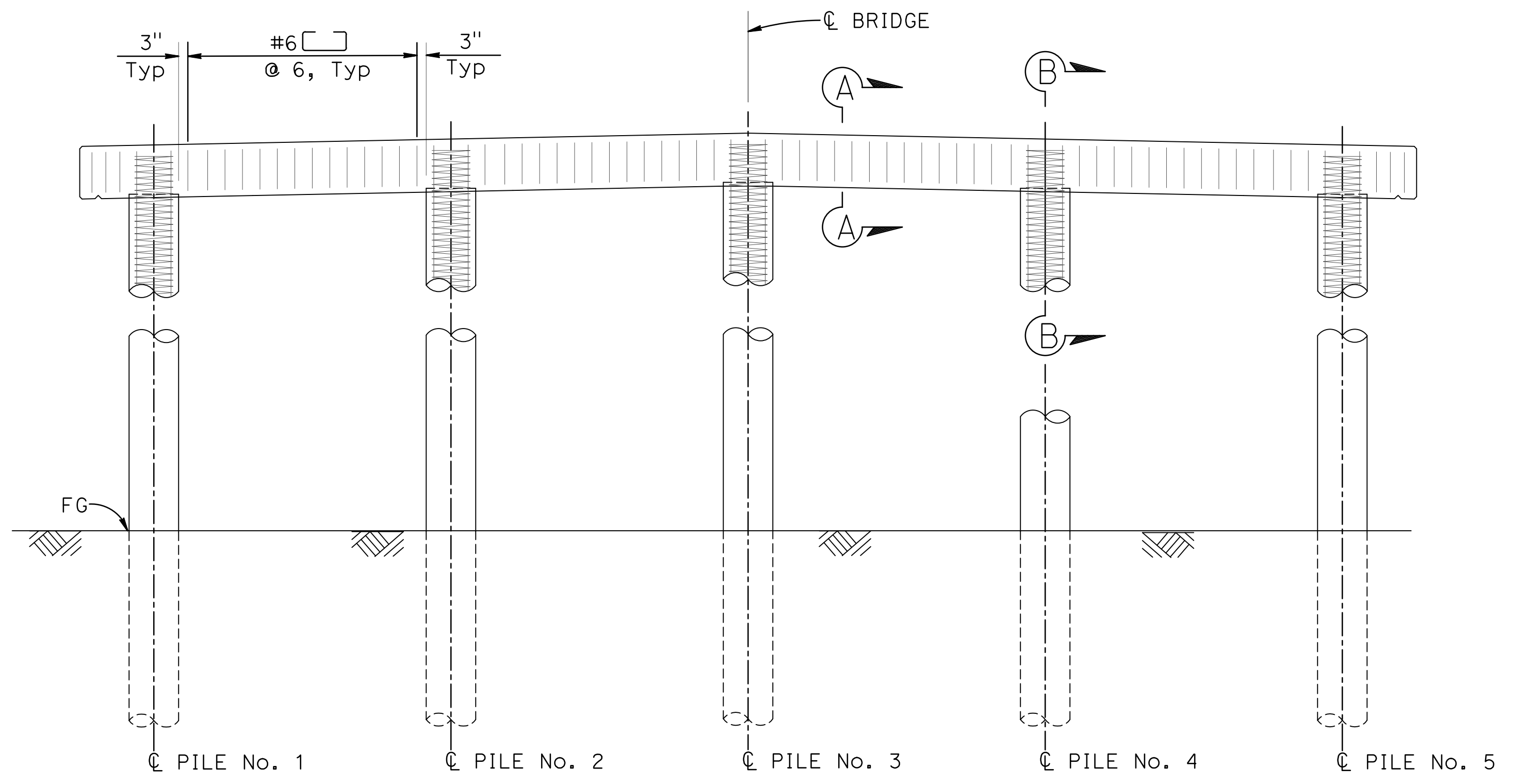
SECTION A-A
 SCALE: 3/4" = 1'-0"



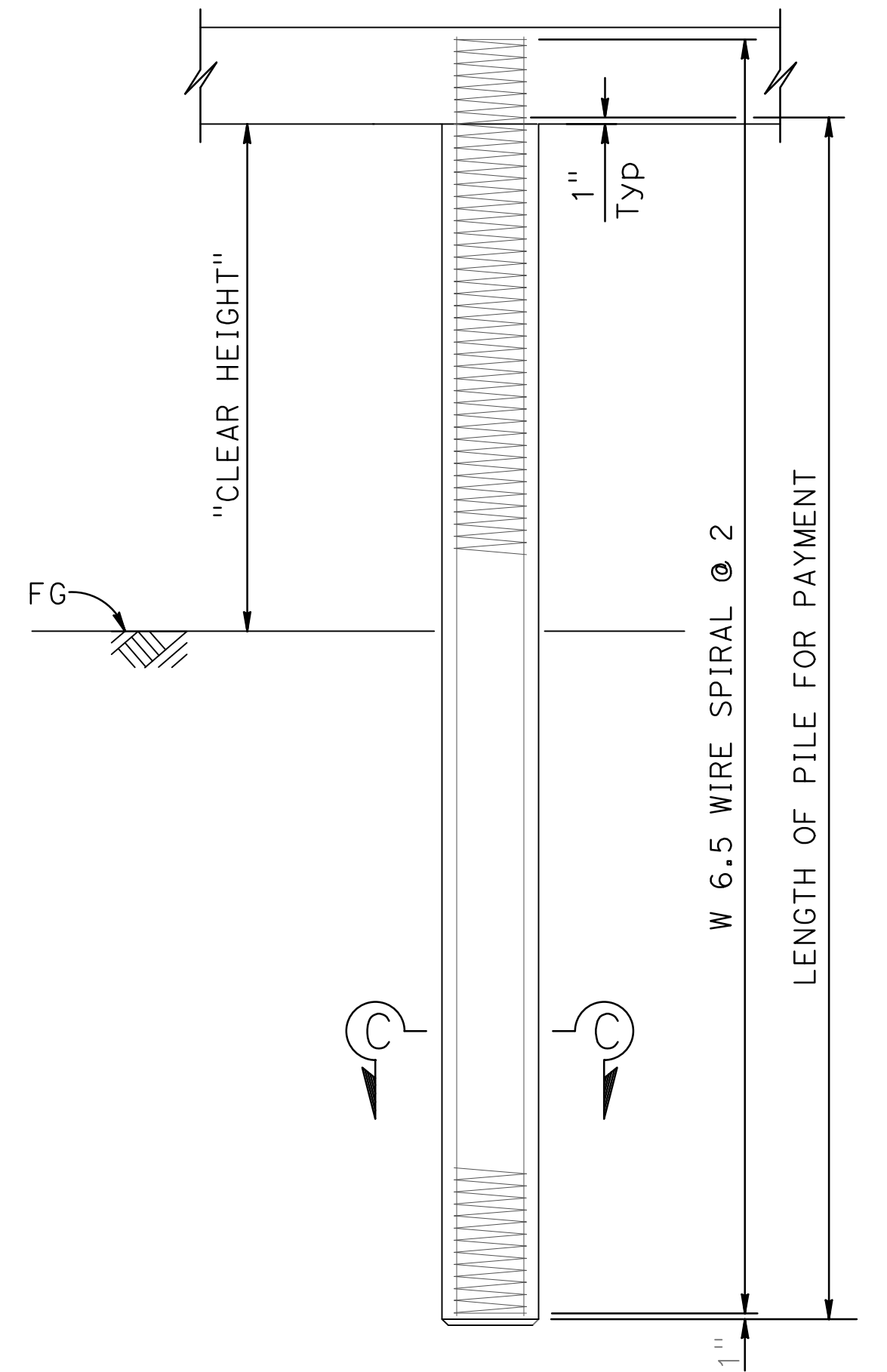
SECTION B-B
 SCALE: 3/4" = 1'-0"



SECTION C-C



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



PRECAST PRESTRESSED CONCRETE PILE

- 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.

| | | | | | | | | | | | | | | |
|--|-----------------|----------------------|---|------------|---------|--|---|---|----------------|----------|----------|----------|---------|-------|
| DESIGN | BY J. DeMARTINI | CHECKED M. ILEY | PREPARED FOR COUNTY OF GLENN PUBLIC WORKS AGENCY | BRIDGE NO. | 11C0017 | BRANCH HOWARD SLOUGH BRIDGE (REPLACE) | | | | | | | | |
| DETAILS | BY R. UHLMANN | CHECKED J. DeMARTINI | | POST MILES | NA | | | | | | | | | |
| QUANTITIES | BY J. DeMARTINI | CHECKED R. UHLMANN | | NA | | | | | | | | | | |
| ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | | | 0 | 1 | 2 | 3 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | REVISION DATES | 11/01/14 | 01/28/17 | 05/31/23 | SHEET 5 | OF 15 |

FILE => 11-0017-h-b01_I01

DATE PLOTTED => 5/31/2023

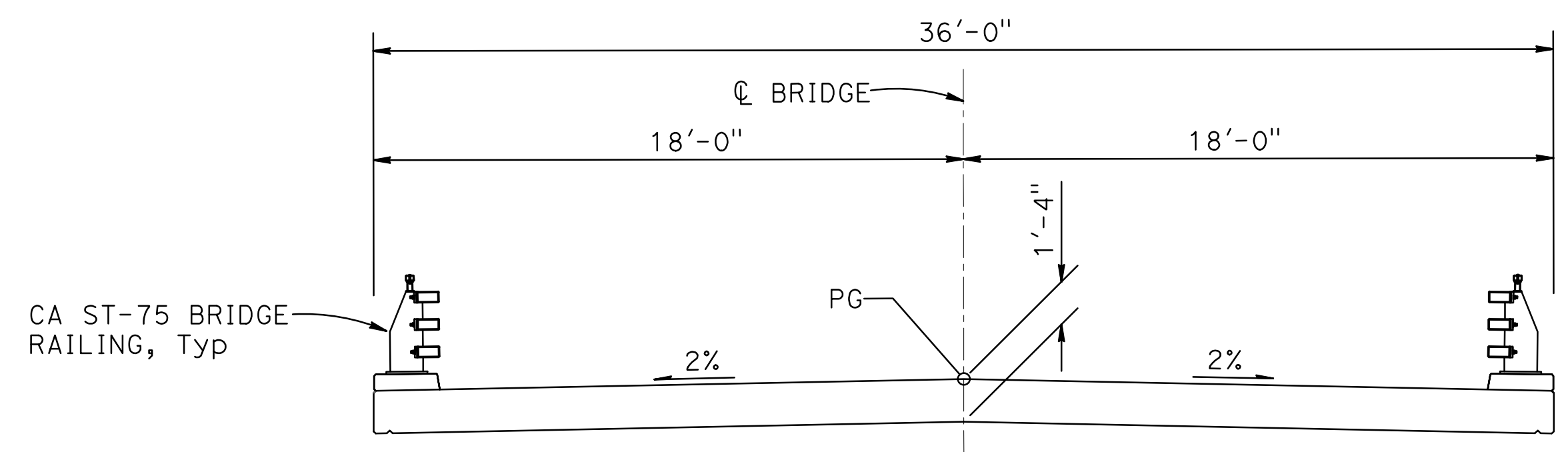
USERNAME => KEVIN

TIME PLOTTED => 4:15:15 PM

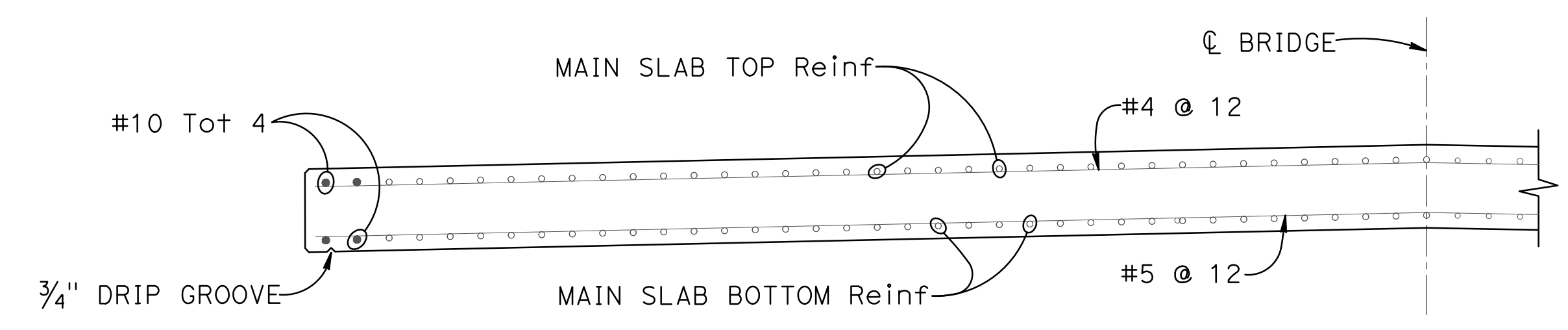
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 03 | Glenn | CR 67 | NA | 24 | 33 |

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

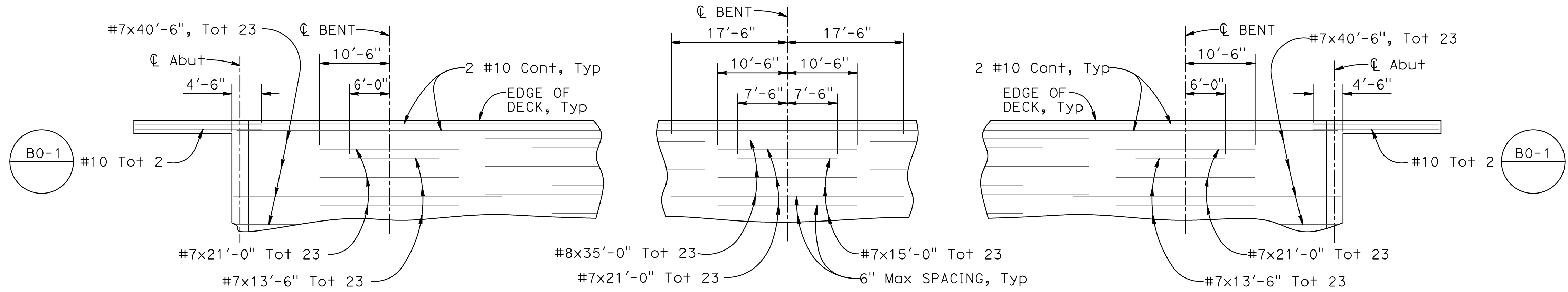


TYPICAL SECTION
SCALE: 1/4" = 1'-0"

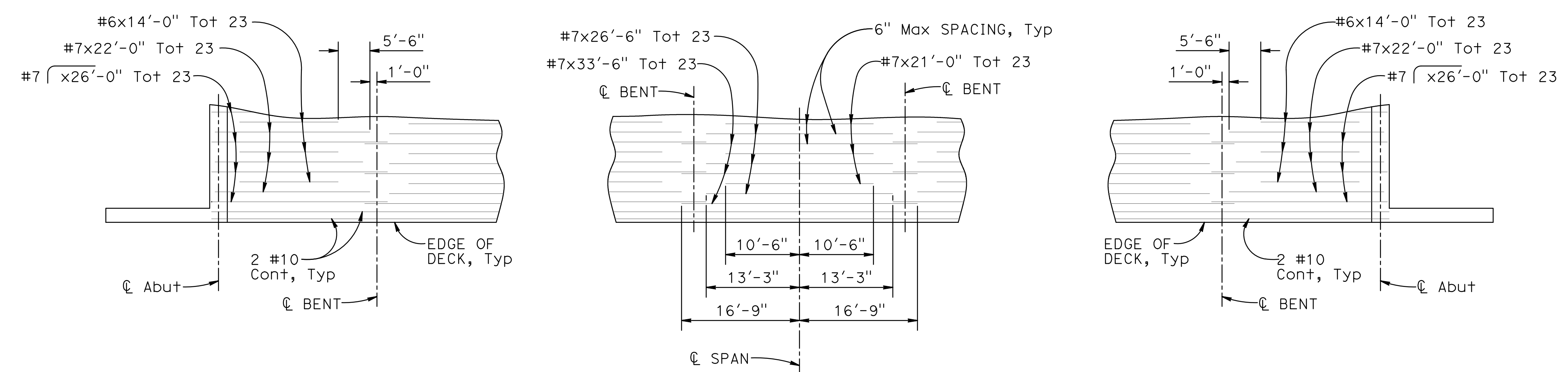


PART TYPICAL SECTION
SCALE: 1/2" = 1'-0"
NOTE: BAR CHAIRS NOT SHOWN.

NOTES:
 1. FOR SLAB REINFORCING DETAILS NOT SHOWN SEE "SLAB REINFORCEMENT DETAILS NO. 2" SHEET.



REINFORCEMENT - TOP OF SLAB
NOT TO SCALE



REINFORCEMENT - BOTTOM OF SLAB
NOT TO SCALE

| | | | | | |
|------------|-----------------|----------------------|---|------------|---|
| DESIGN | BY J. DeMARTINI | CHECKED M. ILEY | PREPARED FOR COUNTY OF GLENN PUBLIC WORKS AGENCY | BRIDGE NO. | BRANCH HOWARD SLOUGH BRIDGE (REPLACE) SLAB REINFORCEMENT DETAILS NO. 1 |
| DETAILS | BY R. UHLMANN | CHECKED J. DeMARTINI | | 11C0017 | |
| QUANTITIES | BY J. DeMARTINI | CHECKED R. UHLMANN | | NA | |

| | | |
|------------|---------|------------------|
| BRIDGE NO. | 11C0017 | SHEET OF 6 15 |
| POST MILES | NA | |

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS




FILE => 11-0017-k1-Slab Reinf Details No 1

| | | |
|----------------------------|-------|----|
| REVISION DATES | SHEET | OF |
| 11/10/14 01/28/17 05/31/23 | 6 | 15 |

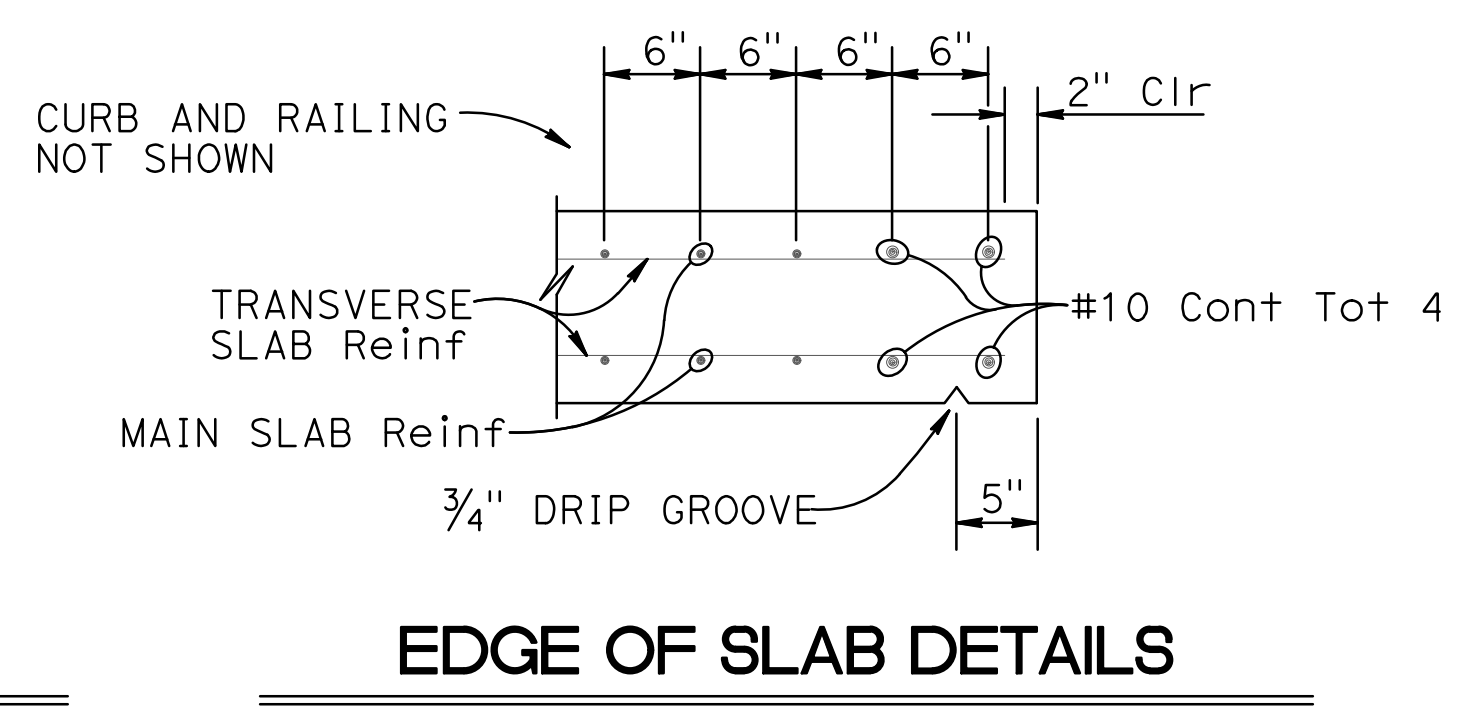
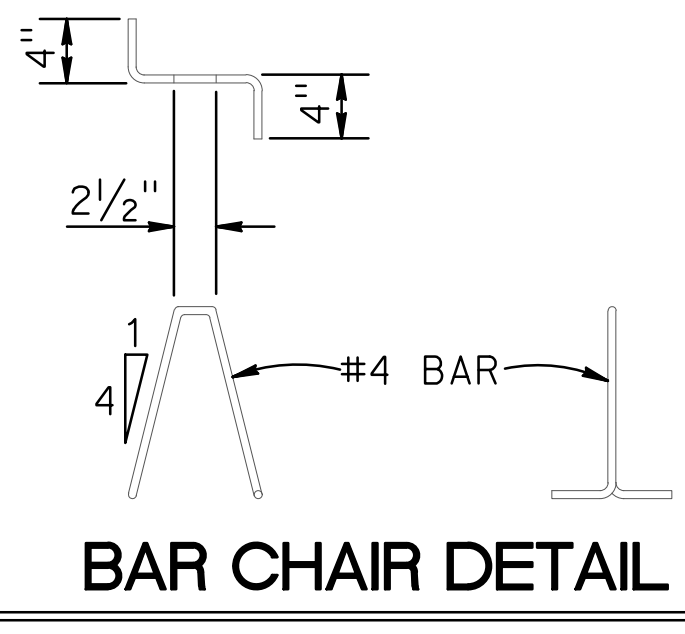
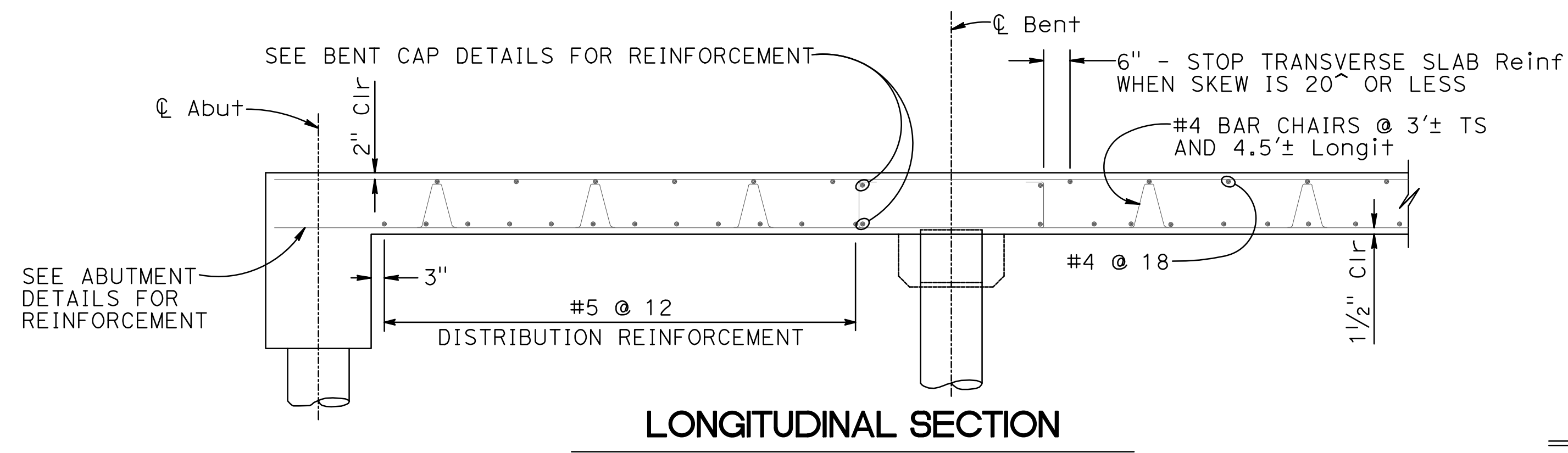
DATE PLOTTED => 5/31/2023
 USERNAME => KEVIN
 TIME PLOTTED => 4:32:29 PM

| | | | | | |
|------|--------|-------|--------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
| 03 | Gle | CR 67 | NA | 25 | 33 |


 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



| 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. | 11C0017 | BRANCH HOWARD SLOUGH BRIDGE (REPLACE) |
| POST MILES | NA | |
| SLAB REINFORCEMENT DETAILS NO. 2 | | |



| | | | |
|---|----------------------------|-------|----|
| DISREGARD PRINTS BEARING EARLIER REVISION DATES | REVISION DATES | SHEET | OF |
| | 11/28/14 01/28/17 05/31/23 | 7 | 15 |

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 03 | Glenn | CR 67 | NA | 26 | 33 |

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

REGISTERED PROFESSIONAL ENGINEER

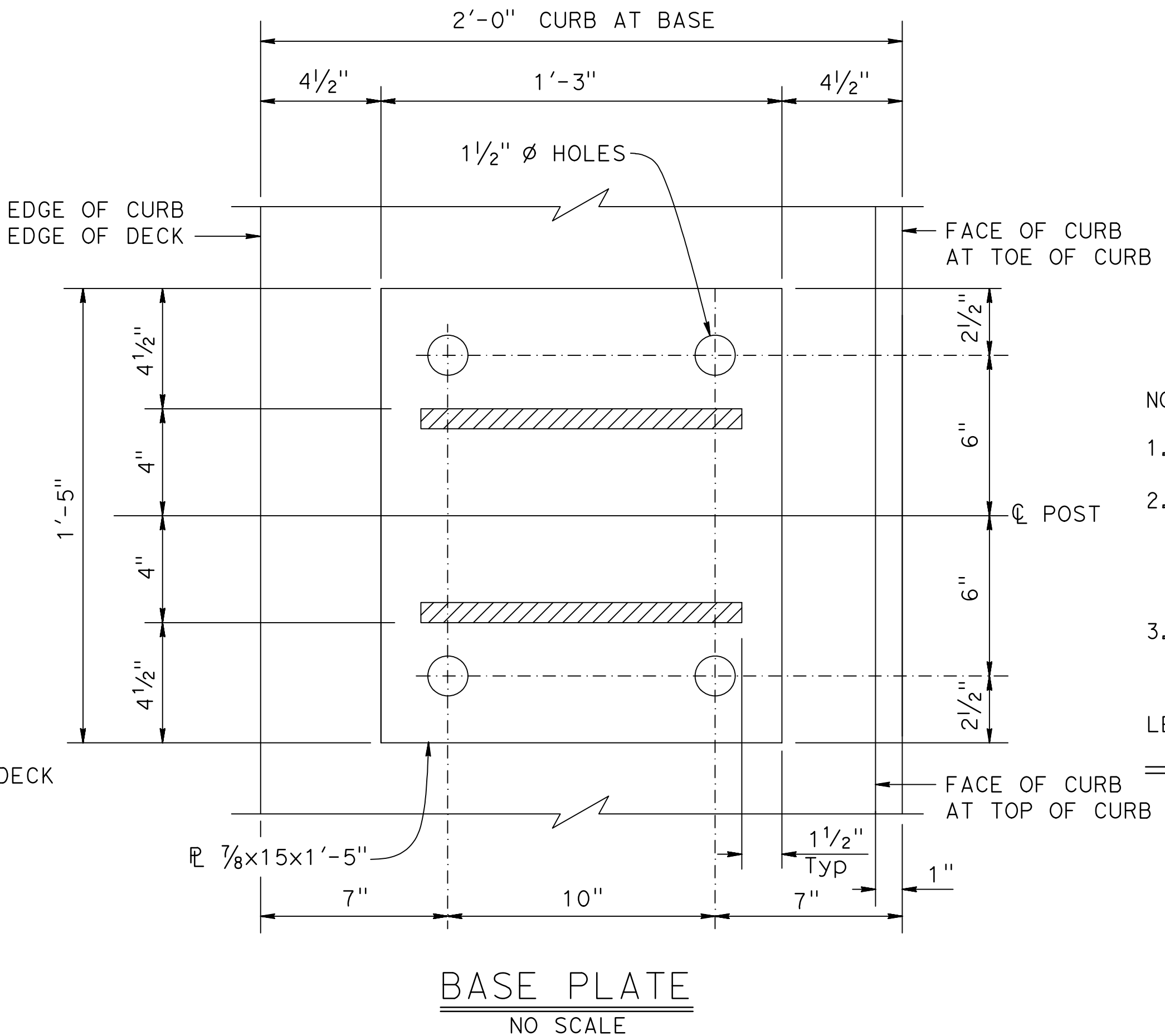
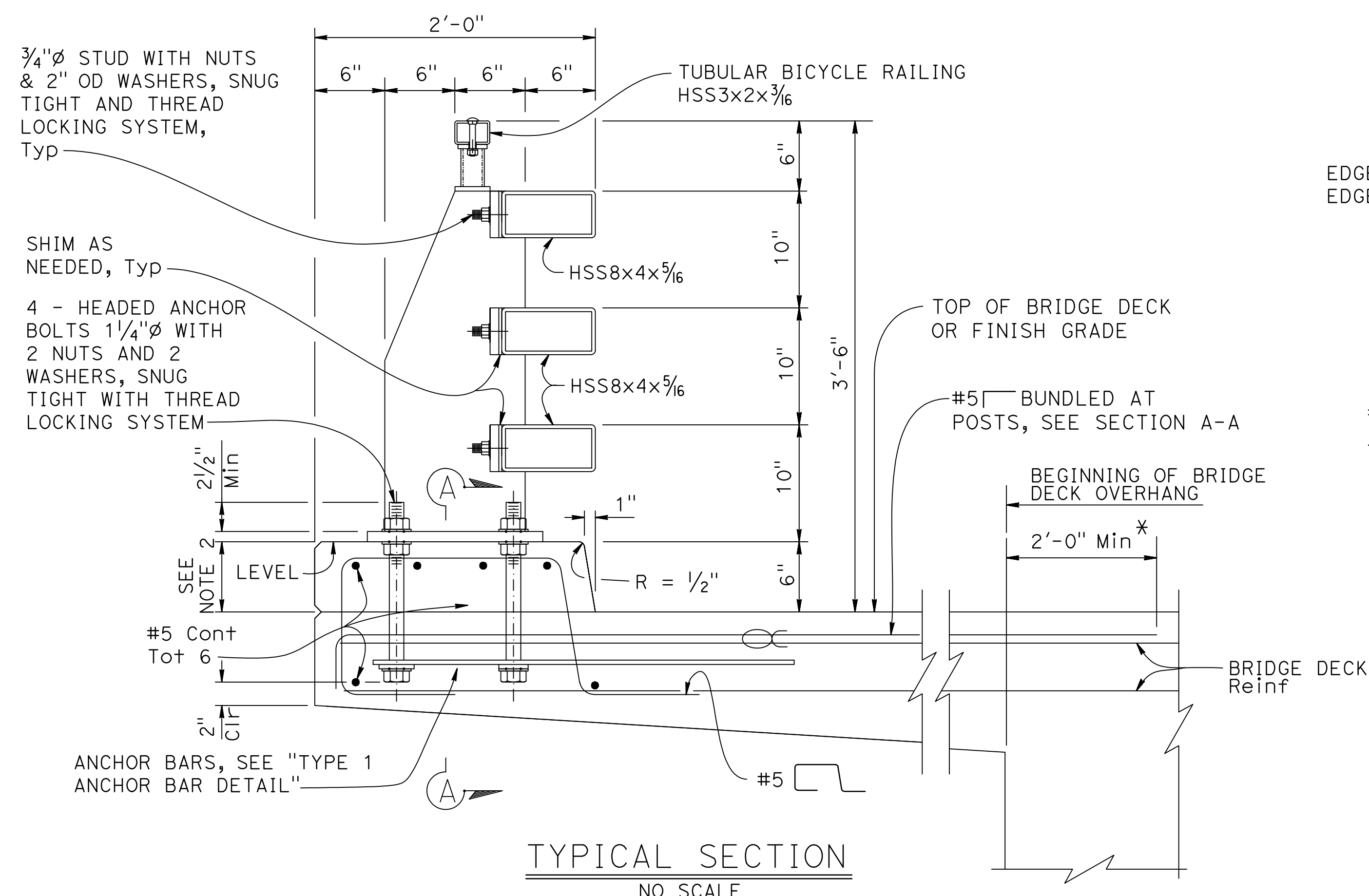
GARY M. GORDON

No. 42176

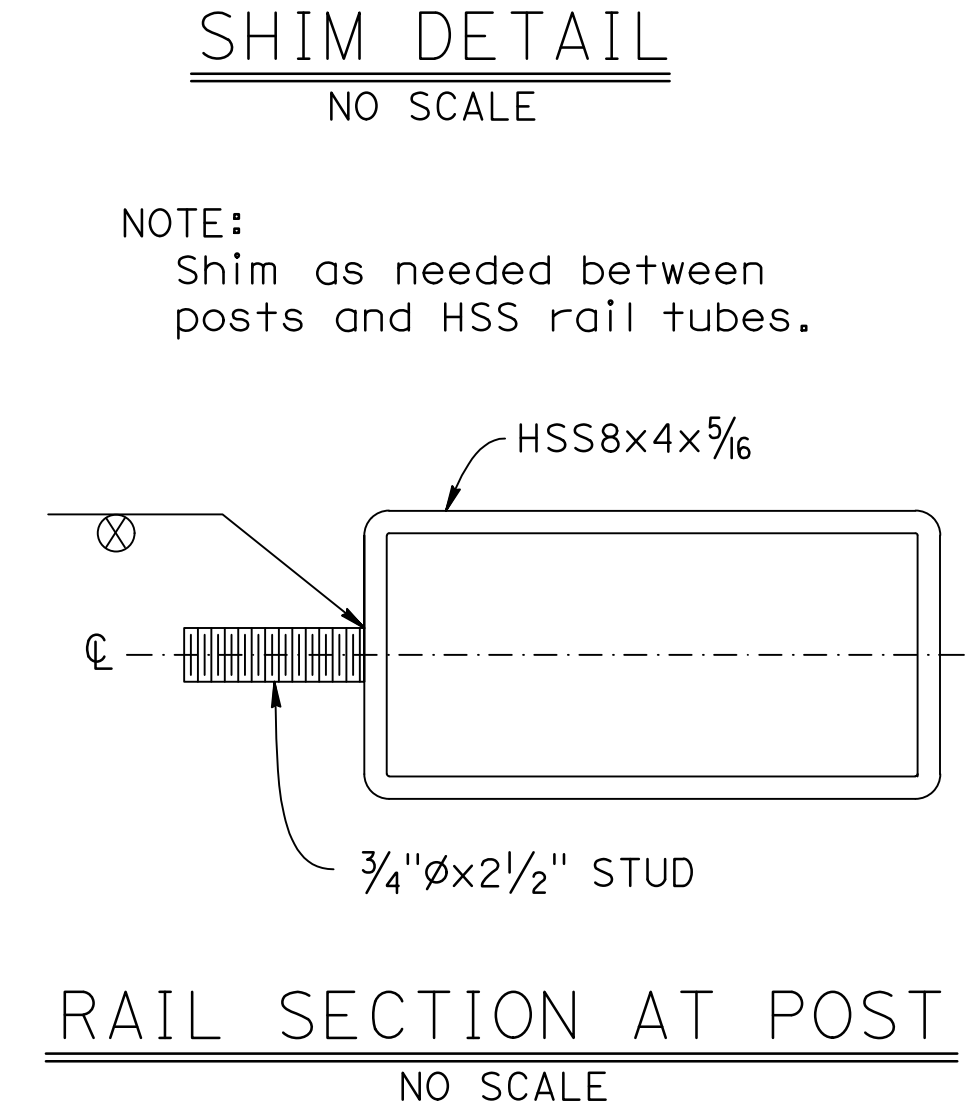
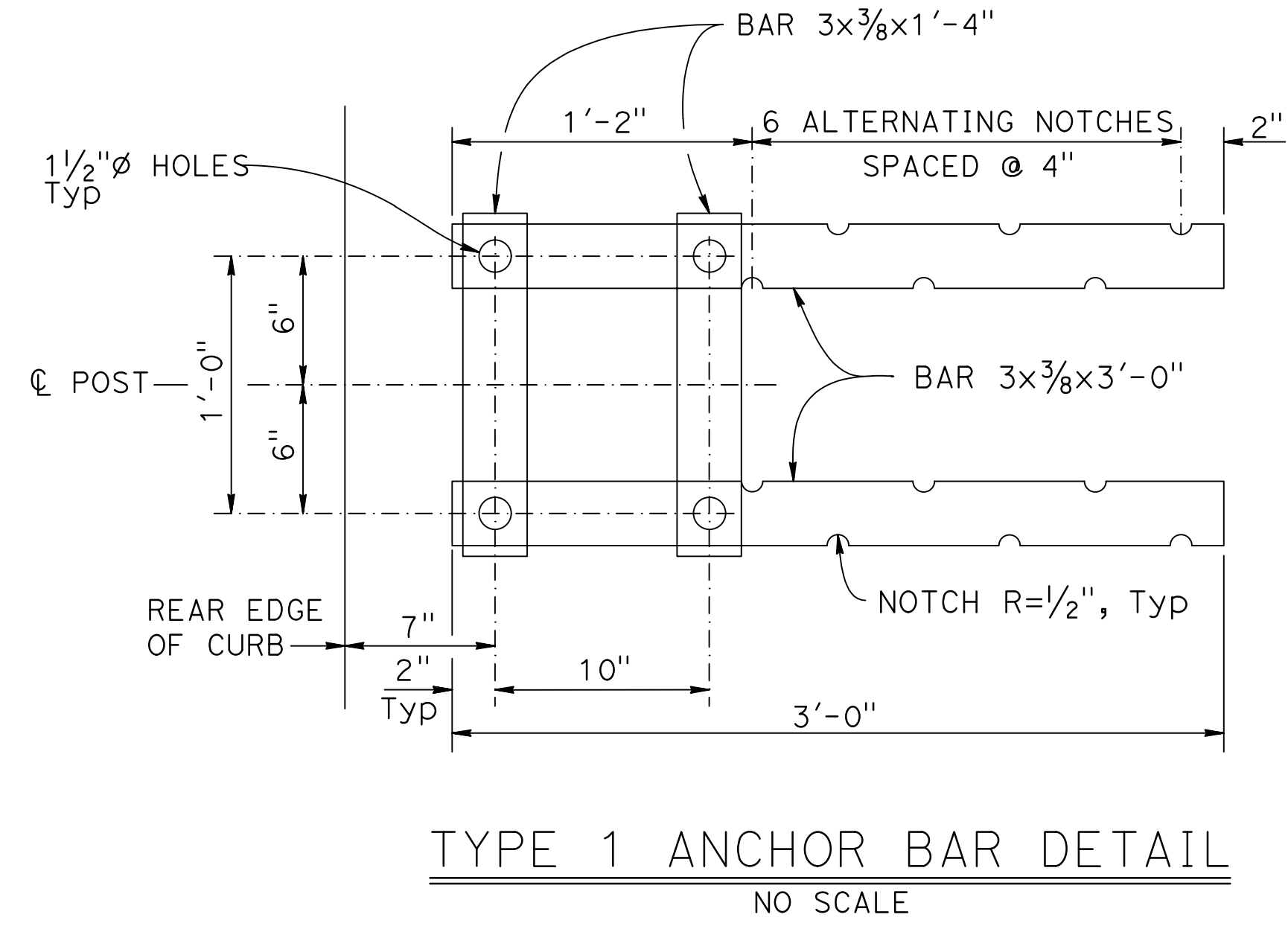
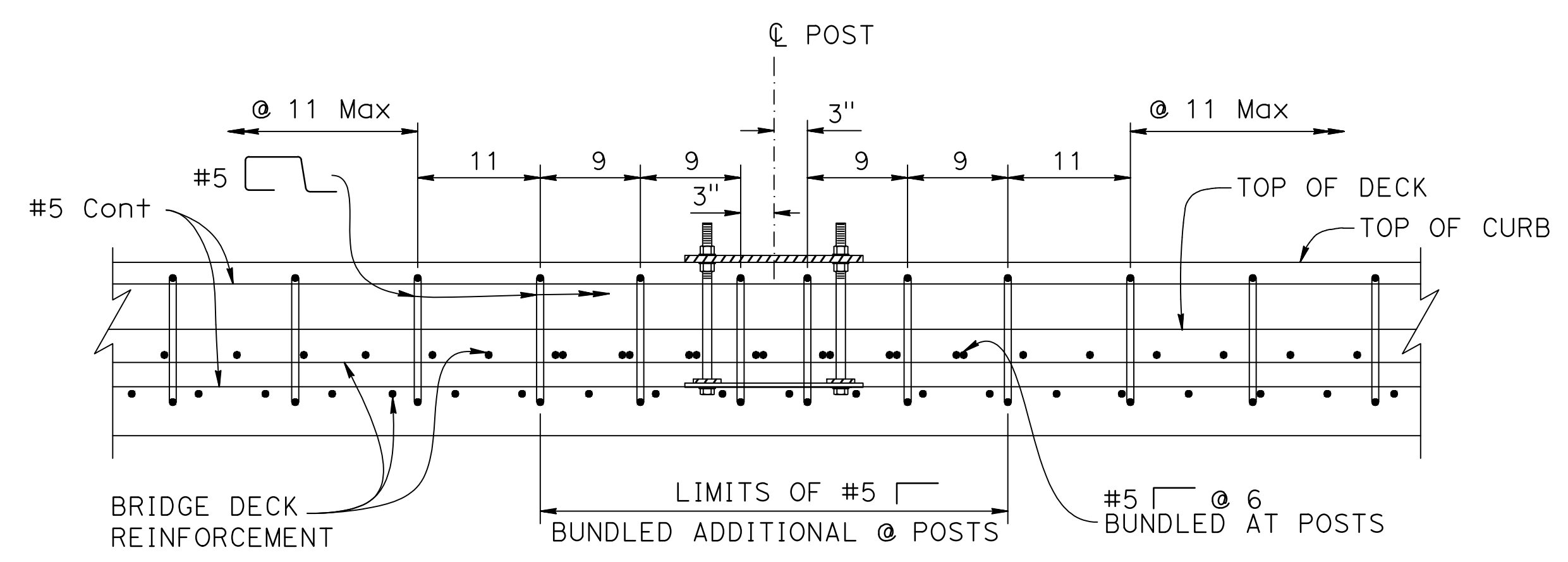
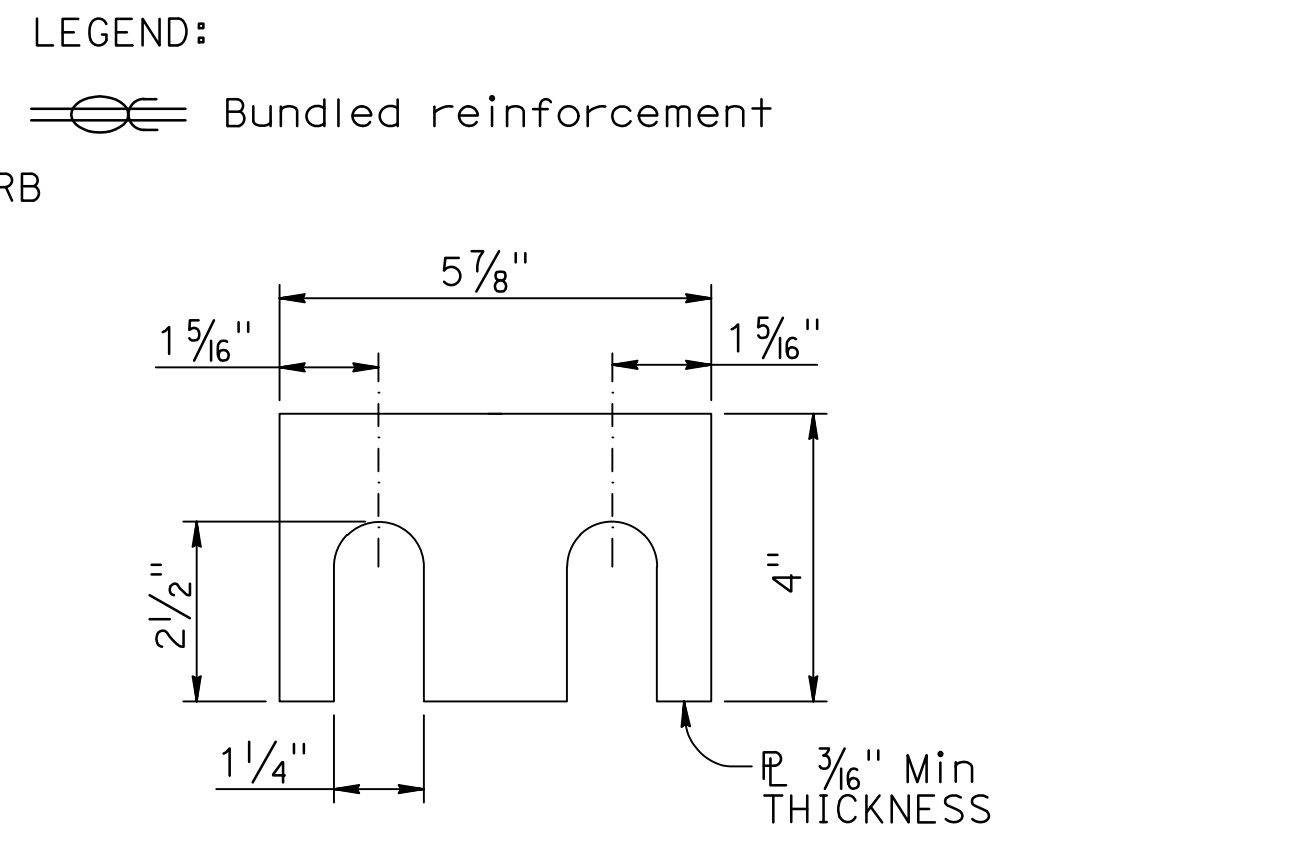
Exp. 03-31-24

CIVIL

STATE OF CALIFORNIA



- NOTES:
- 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 | BRIDGE NO. | BRANCH HOWARD SLOUGH BRIDGE (REPLACE) CALIFORNIA ST-75 BRIDGE RAIL DETAILS No. 1 |
| xs16-116-1 | | | DETAILS | K. COOK-GUTERIEZ | G. GORDON | COUNTY OF GLENN | 11C0017 | |
| JULY 2022 | | | QUANTITIES | | | PUBLIC WORKS AGENCY | NA | |

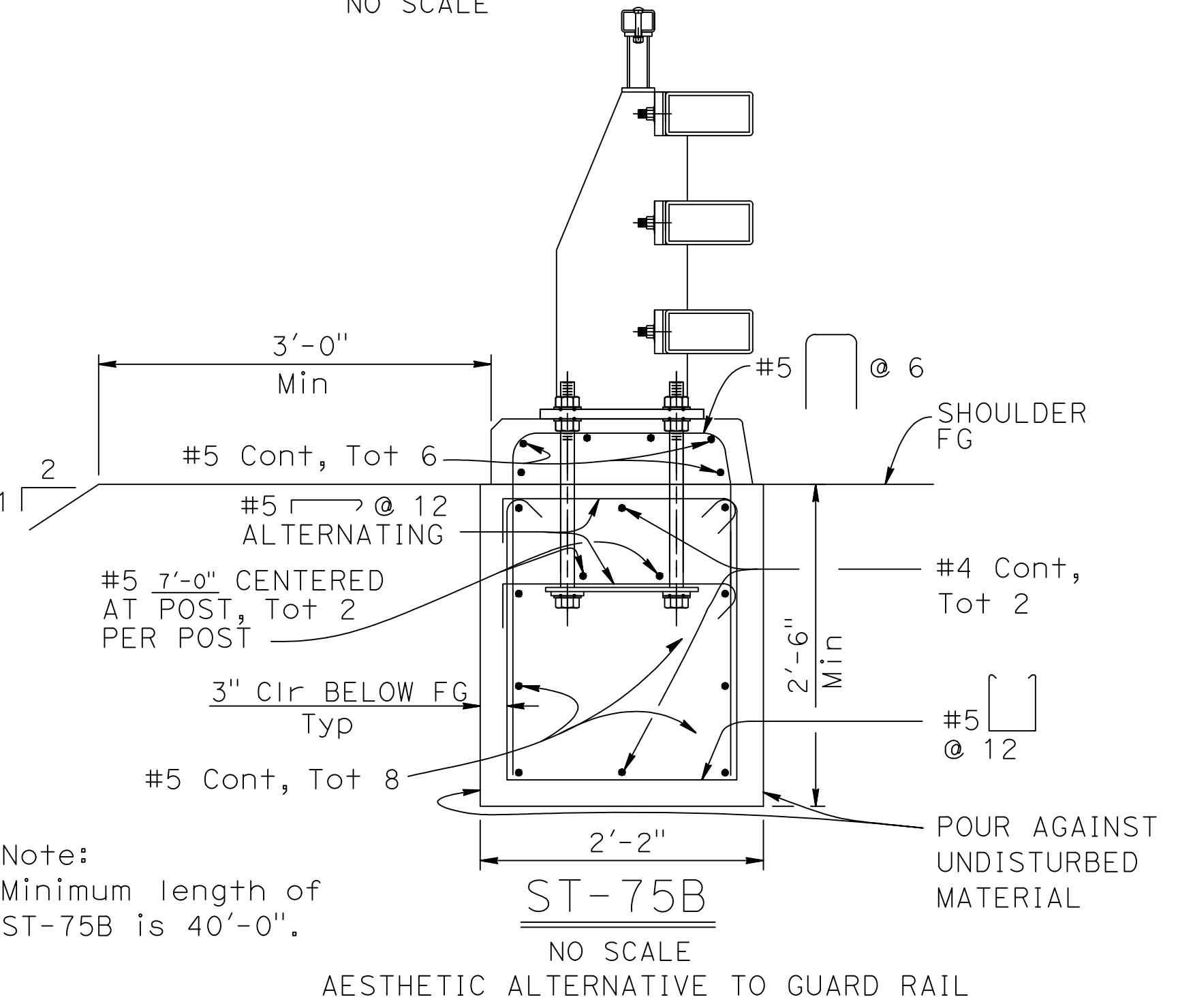
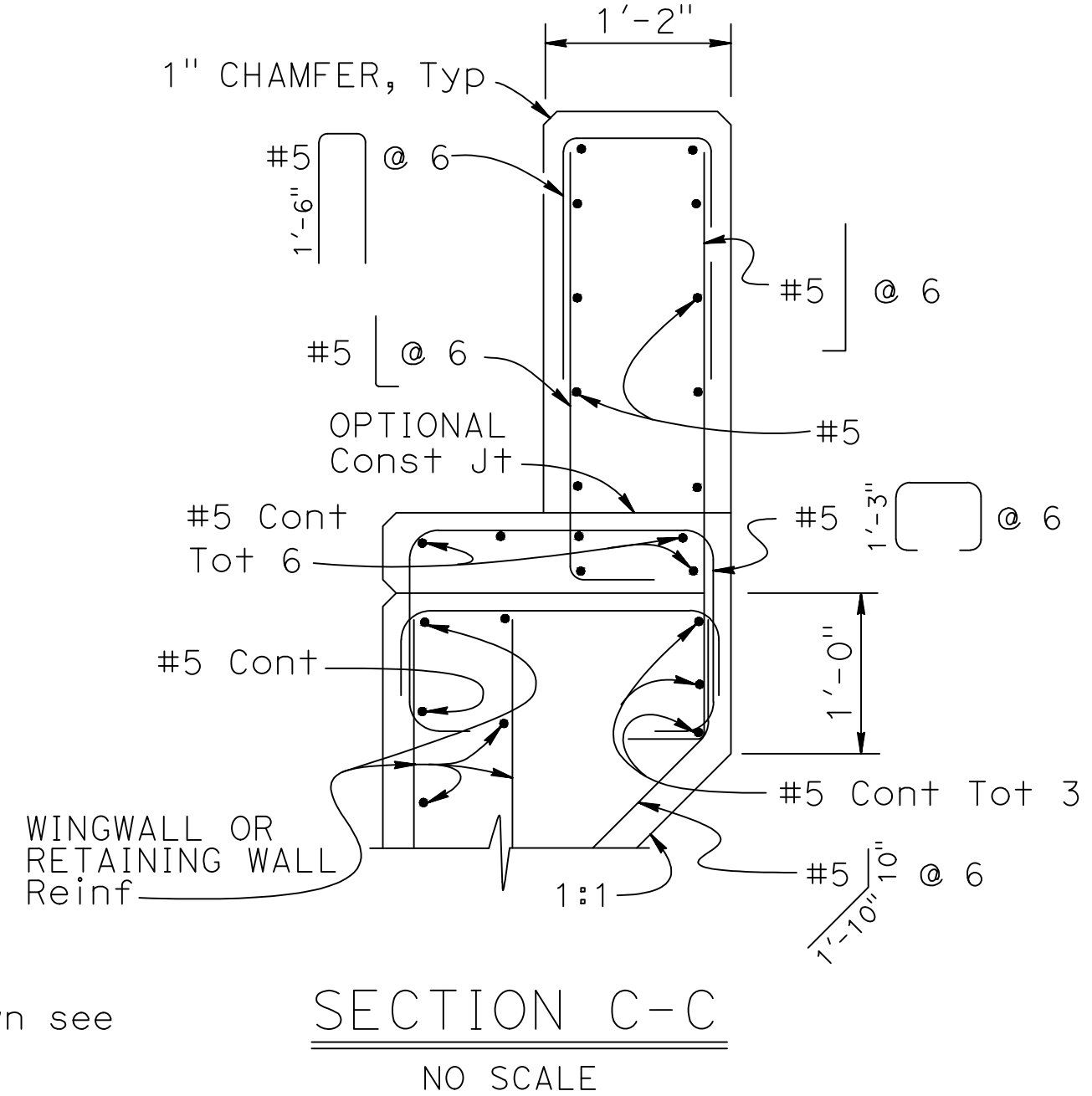
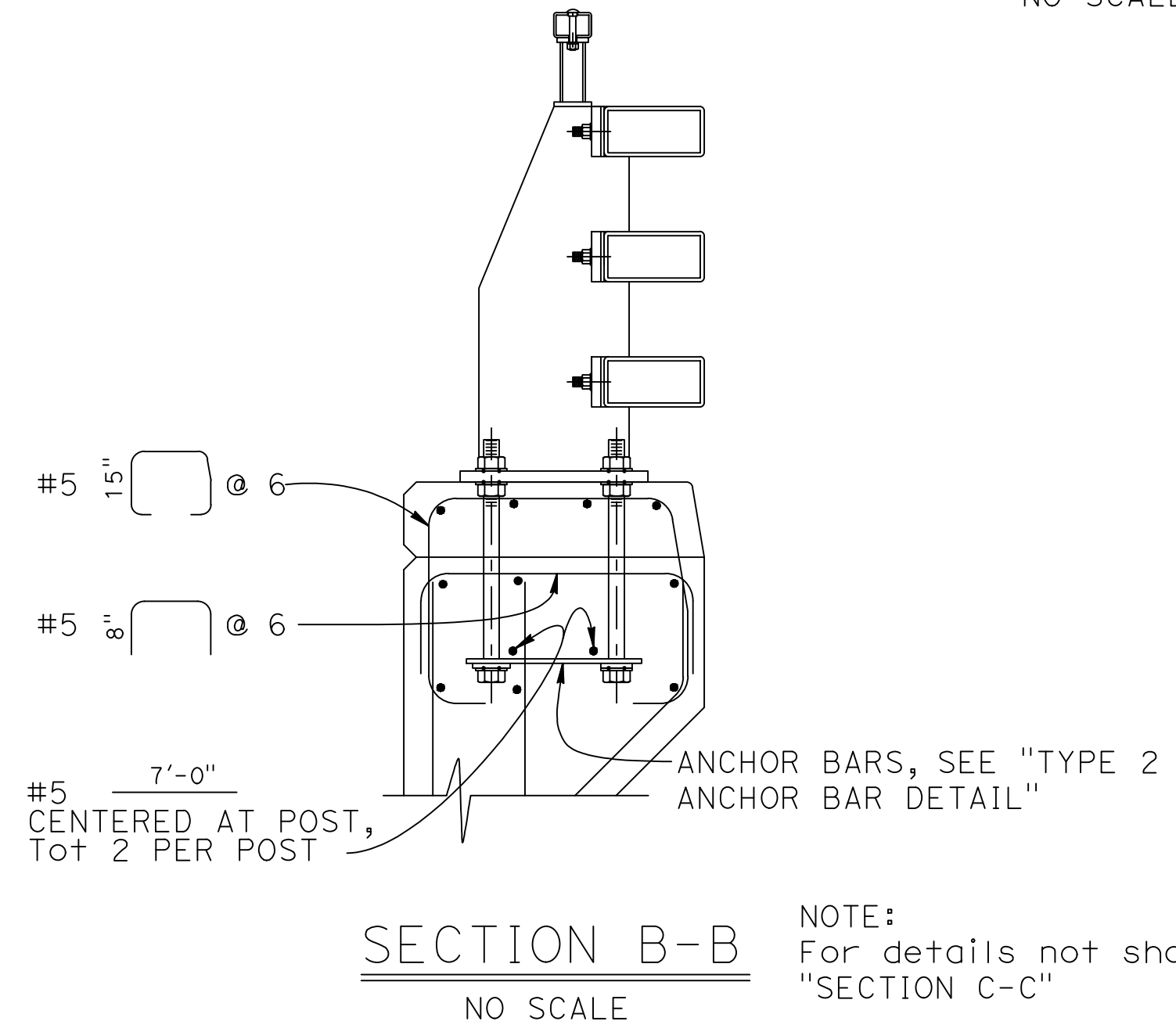
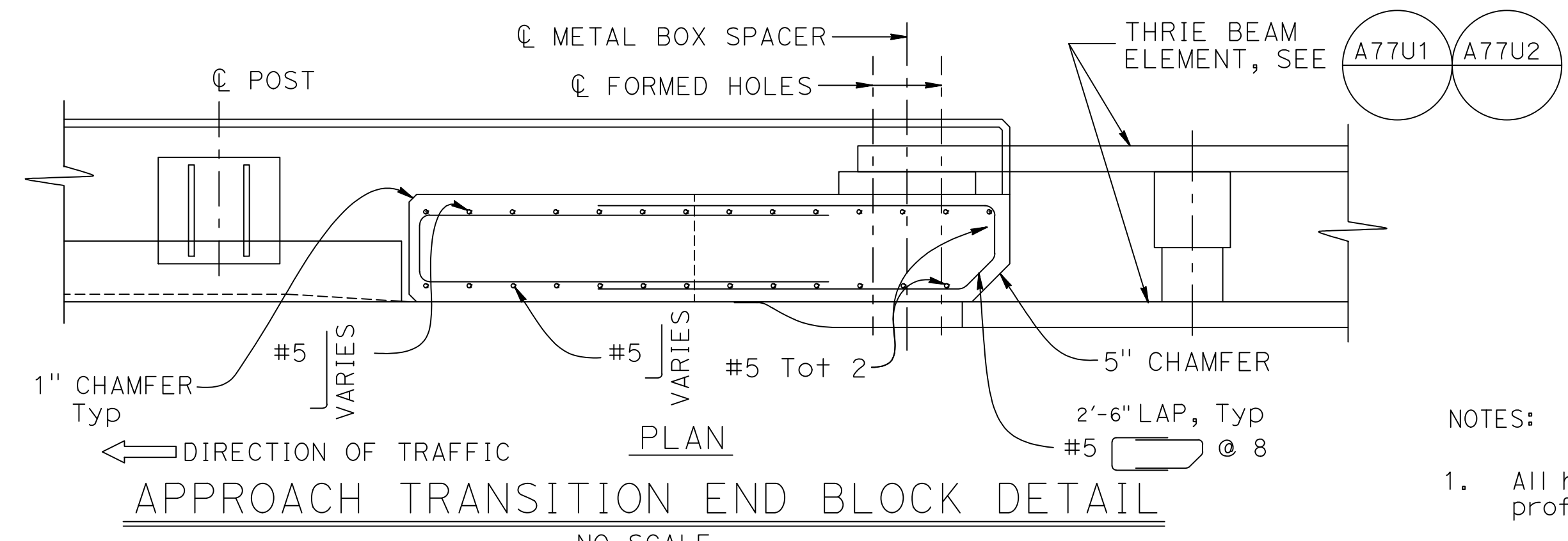
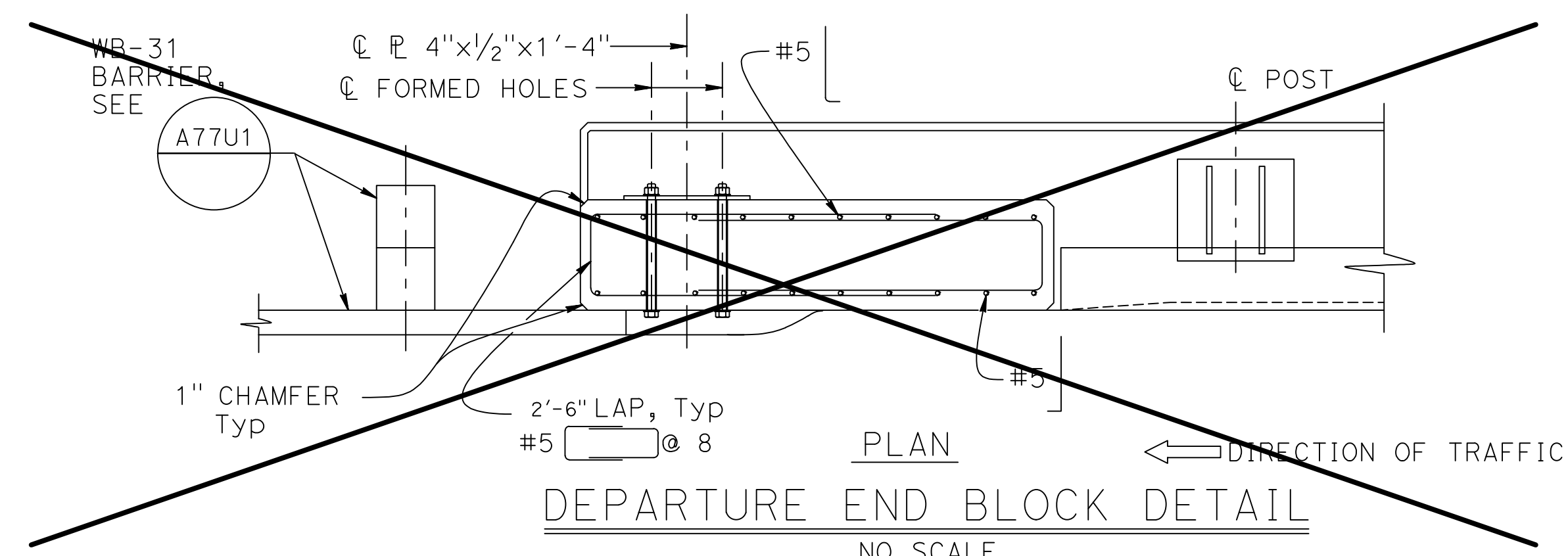
| | | | | | | | |
|---|--|---------|---------------------------------|---|----------------------------|-------|----|
| Refer to: http://www.dot.ca.gov/hq/esc/techpubs/manual/bridgemanuals/bridge-standard-detail-sheets/index.html | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | 0 1 2 3 | FILE => 11-0017-r-rspxs16-116-1 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | REVISION DATES | SHEET | OF |
| | | | | | 12/19/19 06/20/22 01/05/23 | 8 | 15 |

2022 STANDARD PLAN XS-16-116-1 DATE PLOTTED => 05/31/2023 09:48:36 AM USERNAME => KEVIN

| | | | | | |
|------|--------|-------|--------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
| 03 | Glenn | CR 67 | NA | 27 | 33 |

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

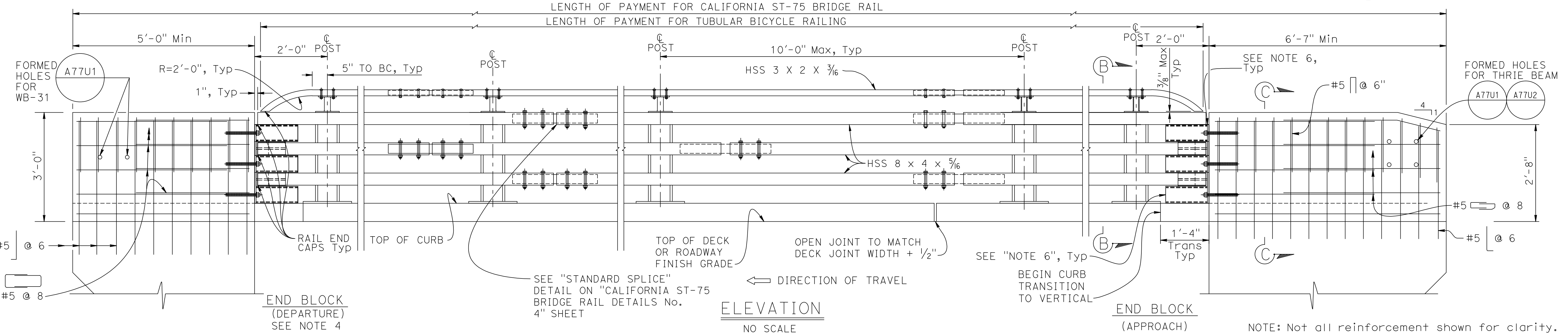
REGISTERED PROFESSIONAL ENGINEER
 GARY M. GORDON
 No. 42176
 Exp. 03-31-24
 CIVIL
 STATE OF CALIFORNIA



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

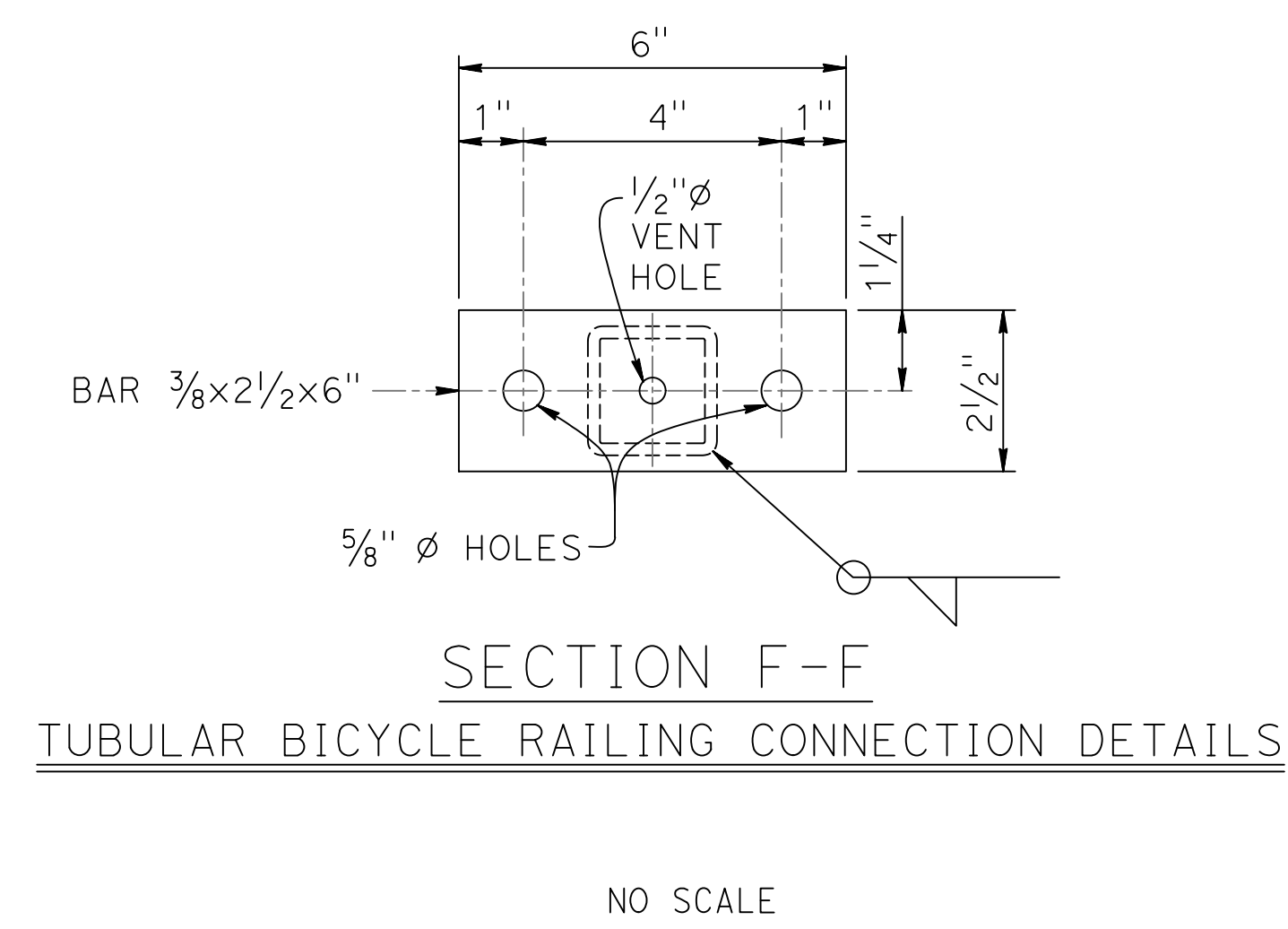
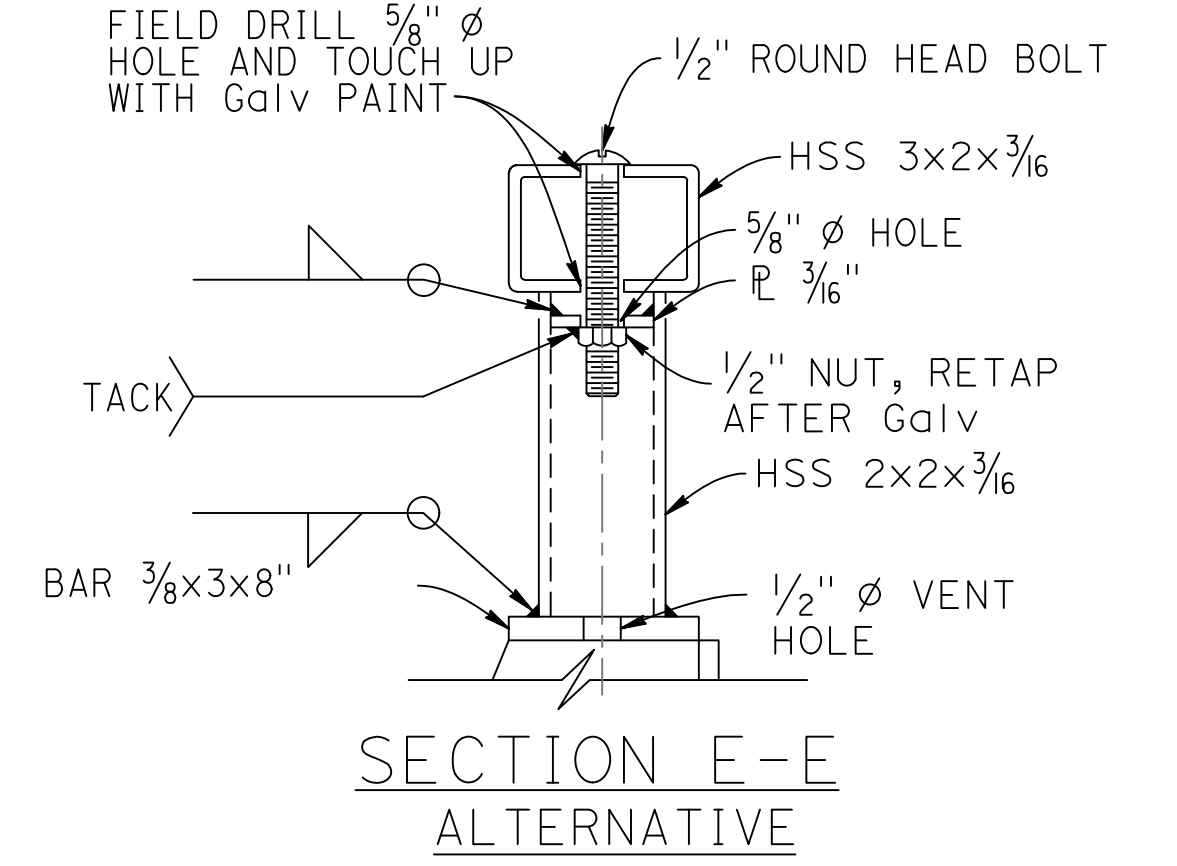
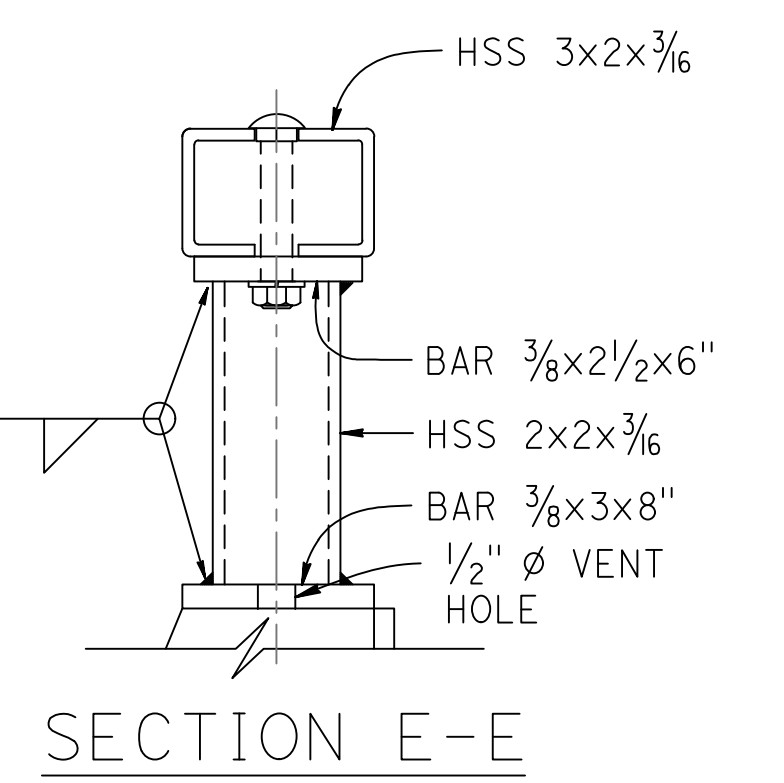
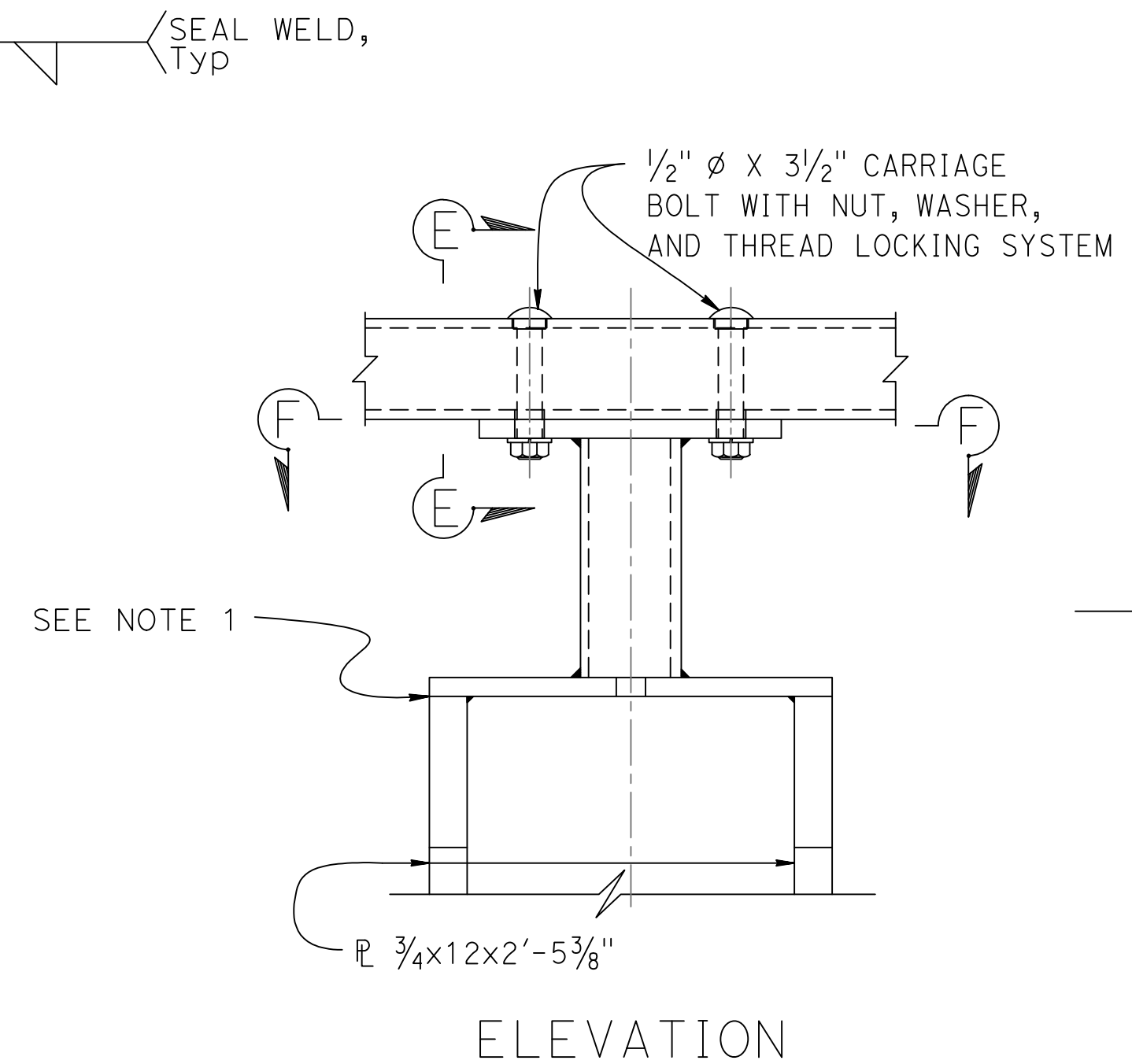
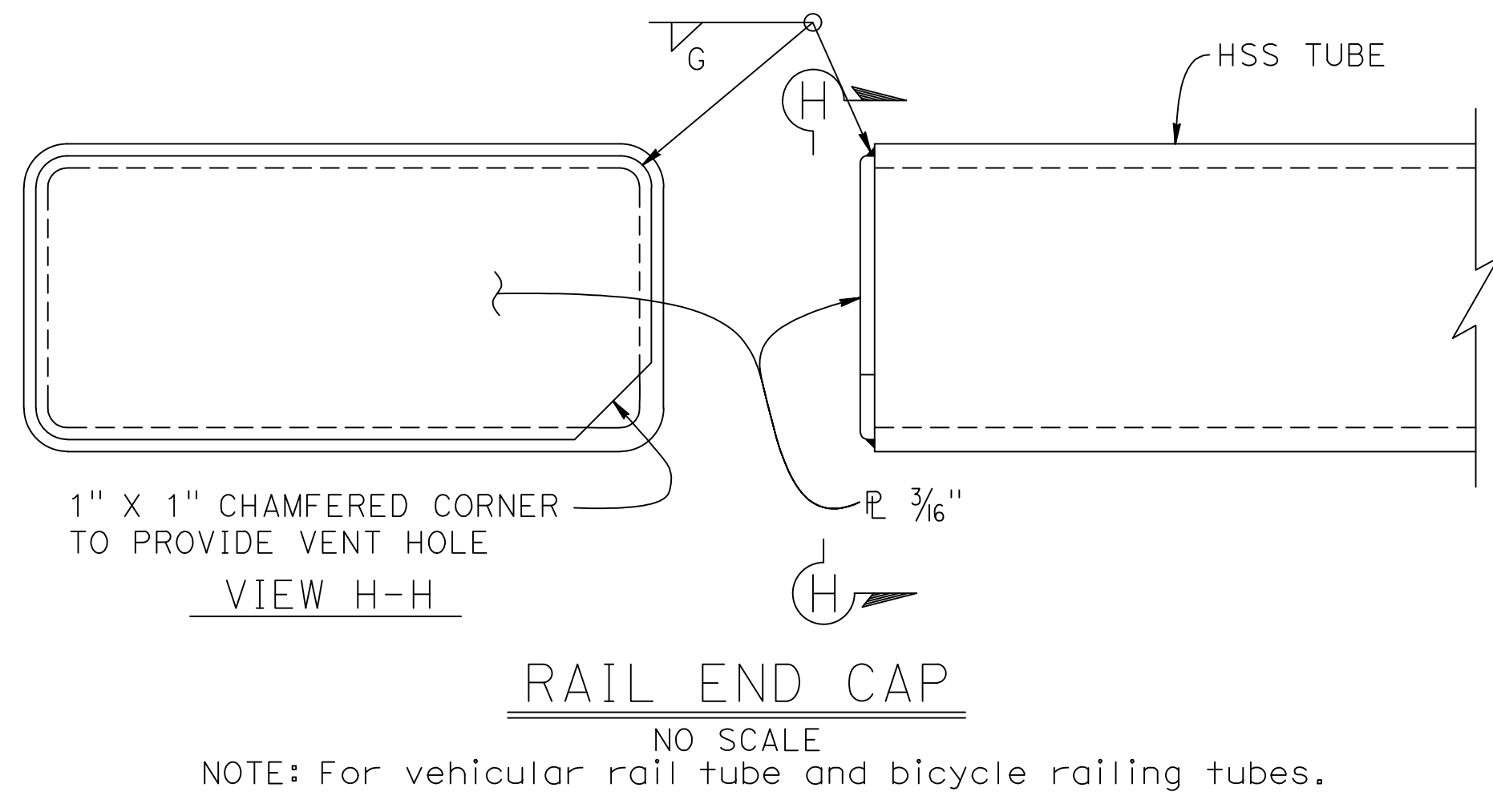
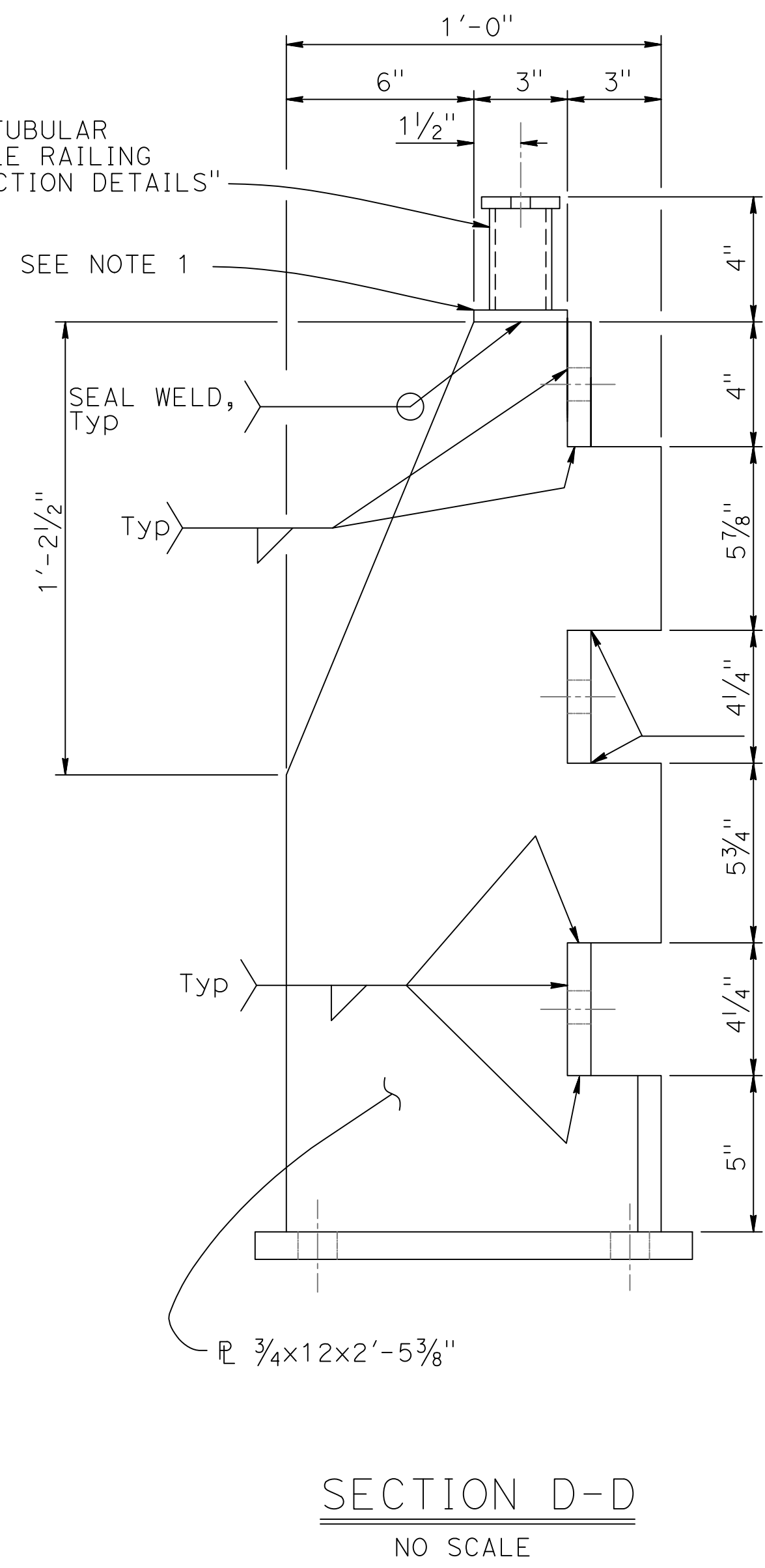
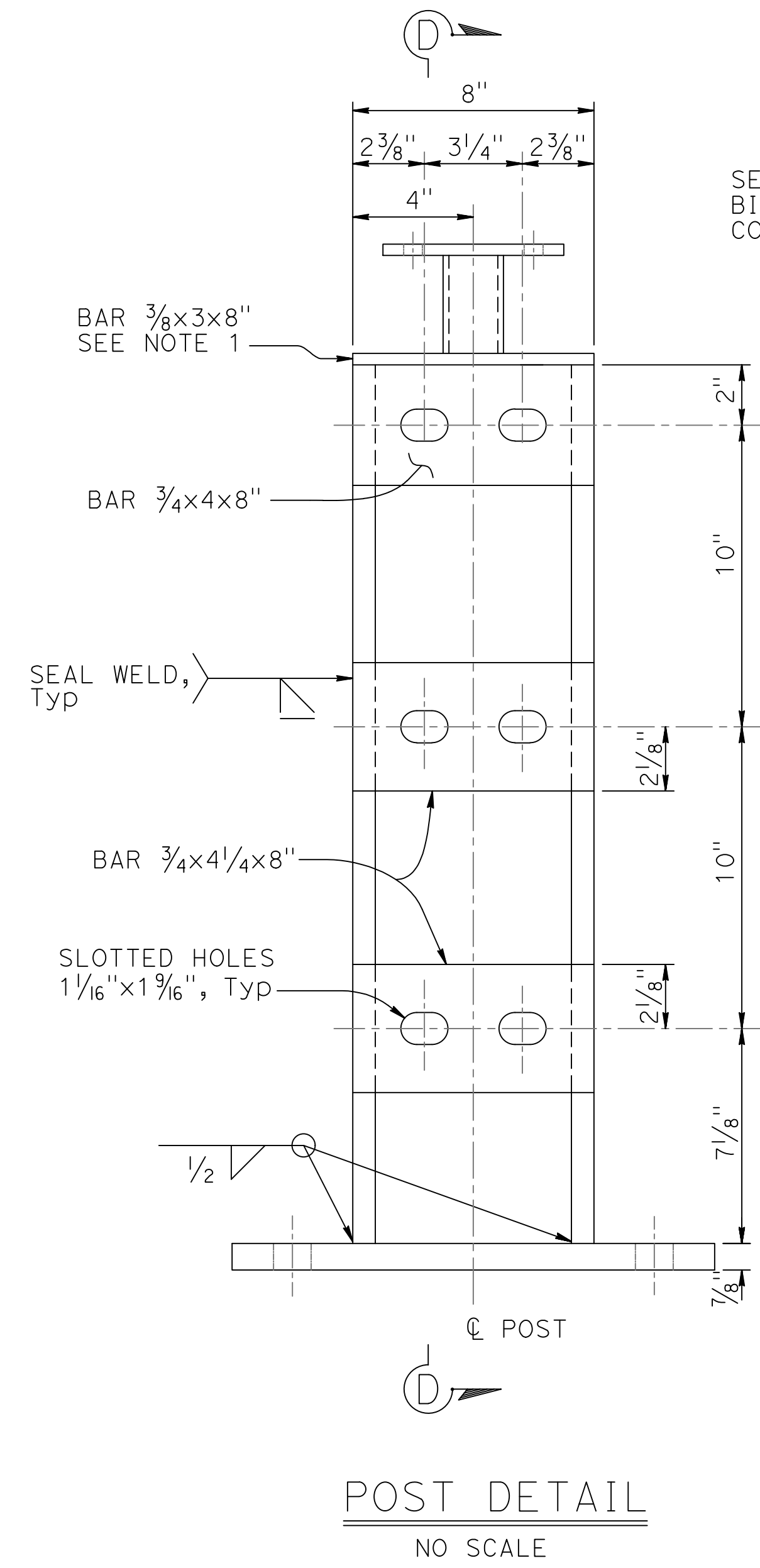
G. GORDON
PROJECT ENGINEER

| | | |
|----------------|----------------------------|---|
| BRIDGE NO. | 11C0017 | BRANCH HOWARD SLOUGH BRIDGE (REPLACE) CALIFORNIA ST-75 BRIDGE RAIL DETAILS No. 2 |
| POST MILES | NA | |
| REVISION DATES | 12/19/19 06/20/22 01/05/22 | |

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 03 | Glenn | CR 67 | NA | 28 | 33 |

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. 11C0017 | BRANCH HOWARD SLOUGH BRIDGE (REPLACE) CALIFORNIA ST-75 BRIDGE RAIL DETAILS No. 3 |
| | | POST MILES NA | |

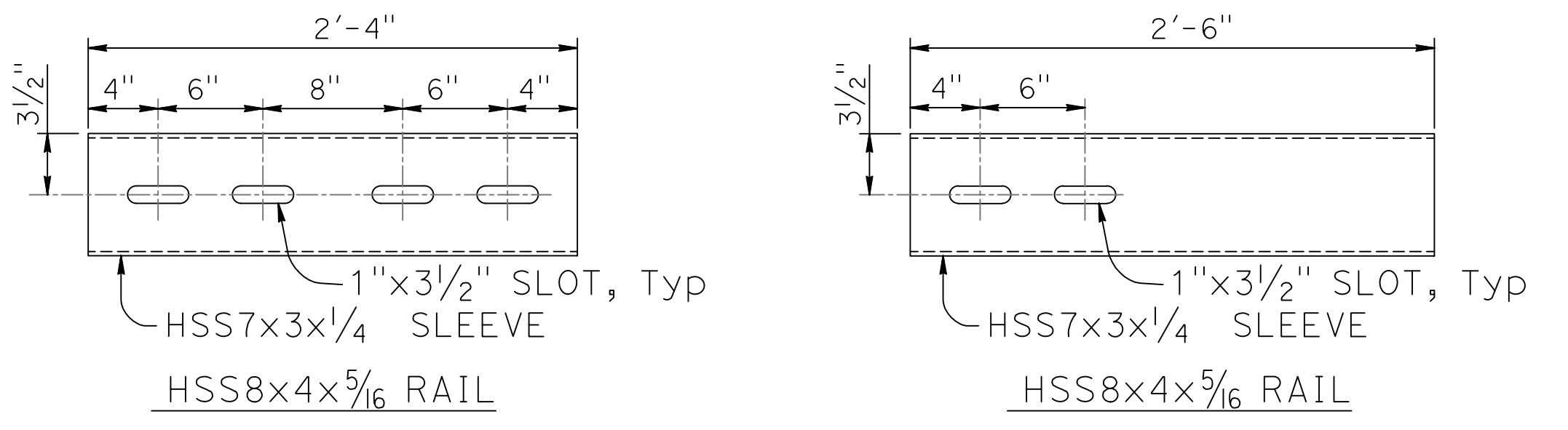
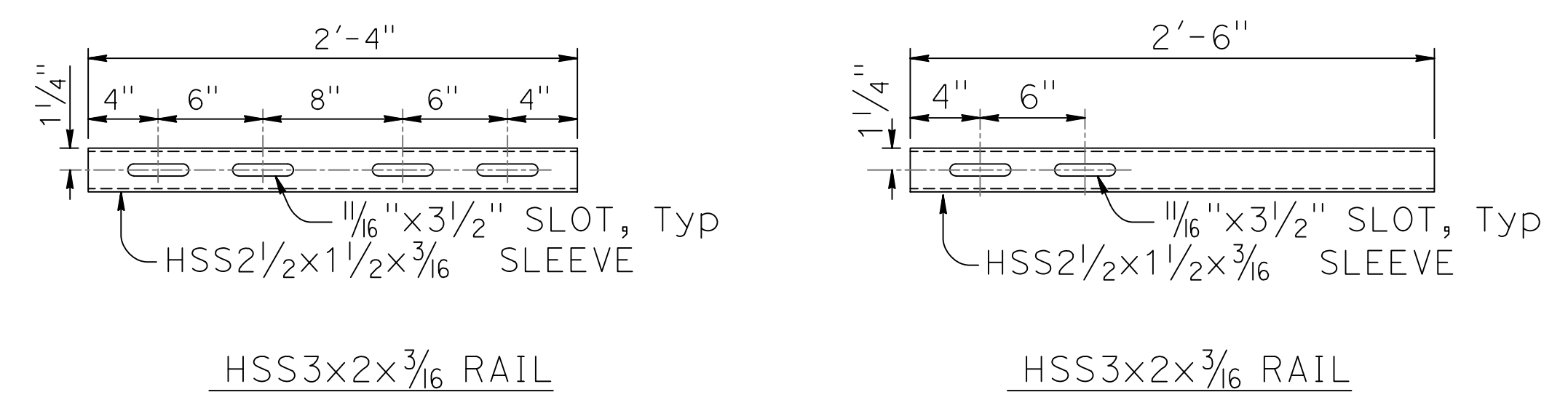
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|---|--|-------------|----------|
| DISREGARD PRINTS BEARING EARLIER REVISION DATES | REVISION DATES 12/19/19 06/20/22 01/05/22 | SHEET 10 | OF 15 |
|---|--|-------------|----------|

2022 STANDARD PLAN XS-16-116-3

| | | | | | |
|------|--------|-------|--------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
| 03 | Glenn | CR 67 | NA | 29 | 33 |

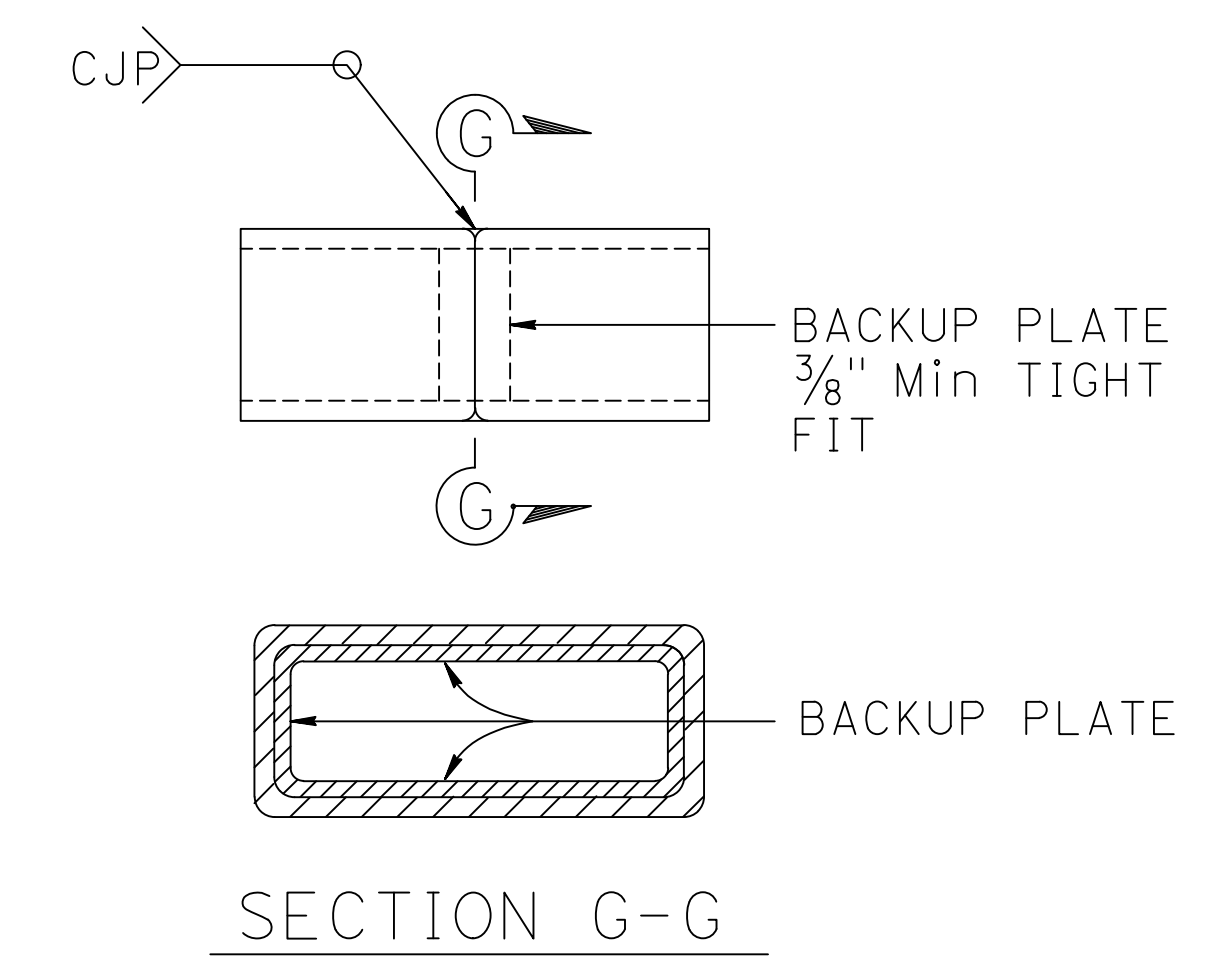
REGISTERED CIVIL ENGINEER
 DATE 05-31-23
 May 31, 2023
 PLANS APPROVAL DATE

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

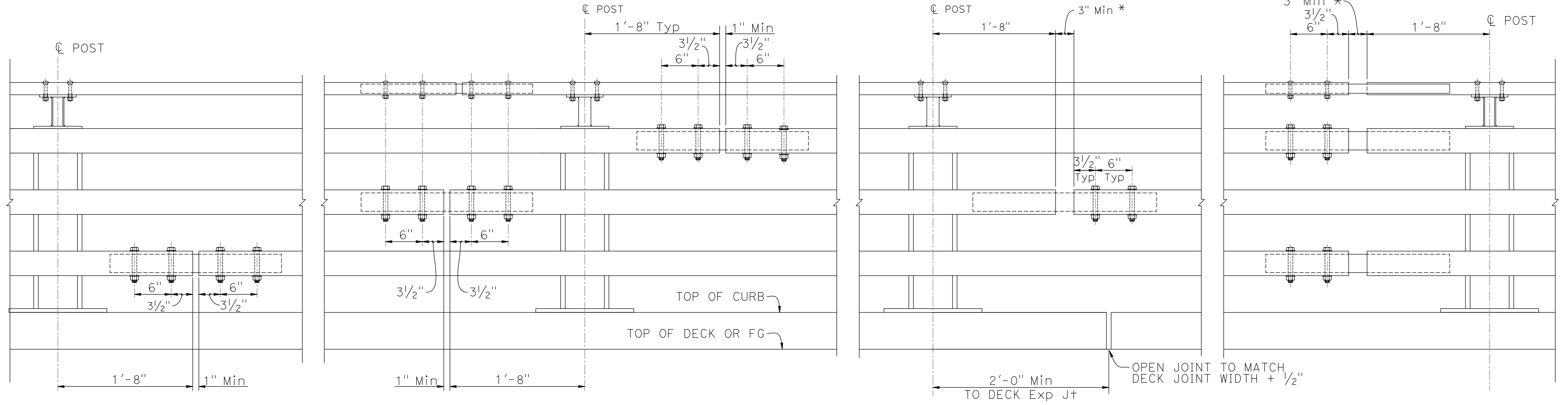


STANDARD SLEEVES
DETAILS
NO SCALE

EXPANSION SLEEVES
DETAILS
NO SCALE



- NOTES:
- HS bolts with nut and washers, snug tightened, and thread locking system.
 - Use 1/2" x 3/16 BOLTS (HSS3x2x3/16)
Use 3/4" x 5/16 BOLTS (HSS8x4x5/16)
 - Each rail length must be continuous over a minimum of two posts.
 - The fabricator must check that the tubular sleeve splices conform to the dimensions indicated to assure proper clearance.
 - 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 | BY K. COOK-GUTERIEZ | CHECKED G. GORDON |
| QUANTITIES | BY | CHECKED |

PREPARED FOR

COUNTY OF GLENN
PUBLIC WORKS AGENCY

G. GORDON
PROJECT ENGINEER

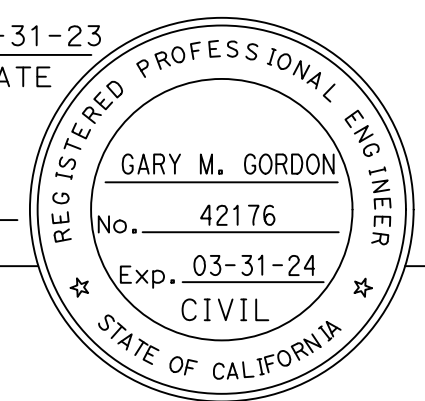
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|------------|---------|
| BRIDGE NO. | 11C0017 |
| POST MILES | NA |

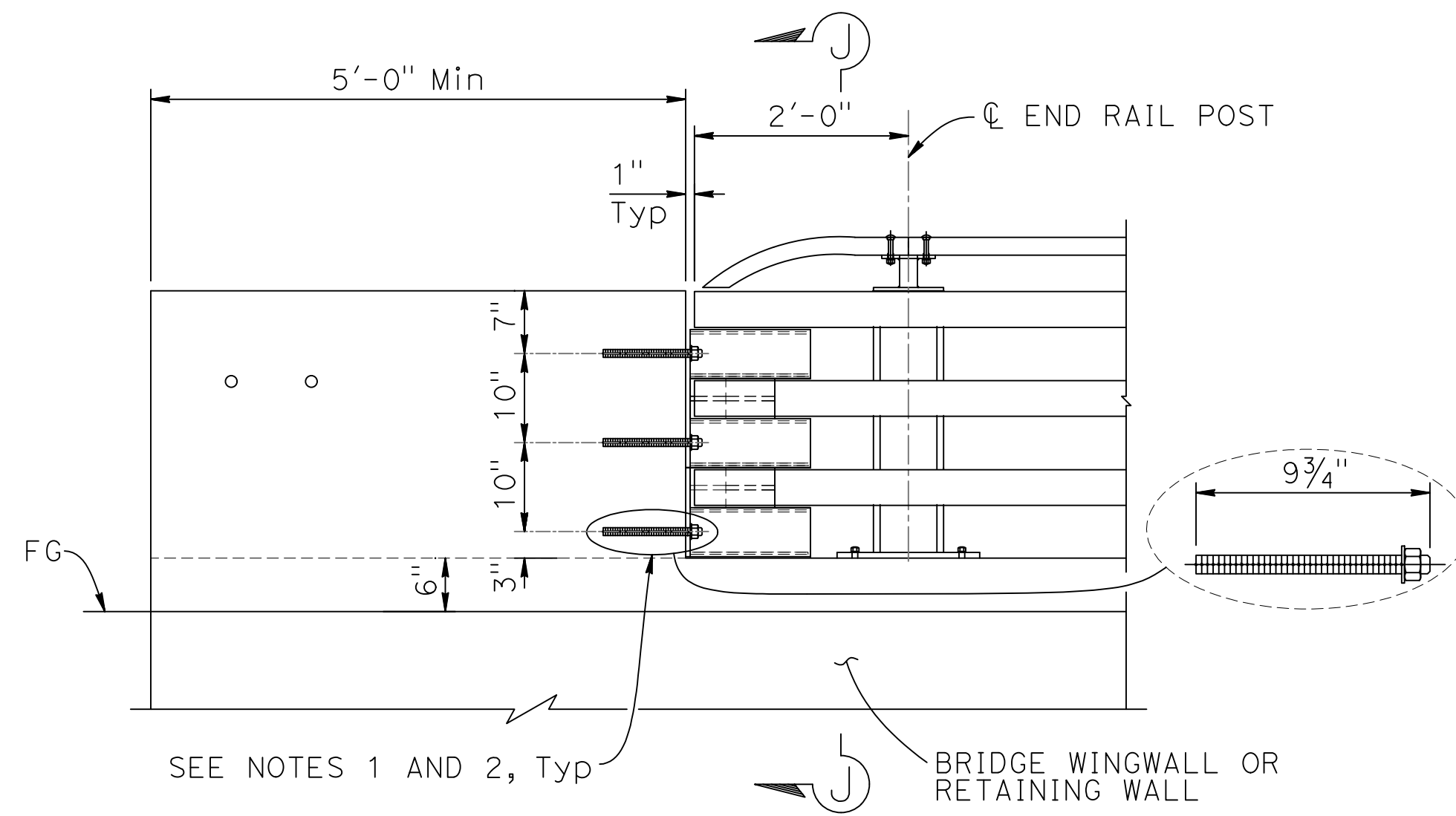
BRANCH HOWARD SLOUGH BRIDGE (REPLACE)
CALIFORNIA ST-75 BRIDGE RAIL
DETAILS No. 4

| | | |
|----------------------------|-------|----|
| REVISION DATES | SHEET | OF |
| 12/19/19 06/20/22 07/05/22 | 11 | 15 |

2022 STANDARD PLAN XS-16-116-4

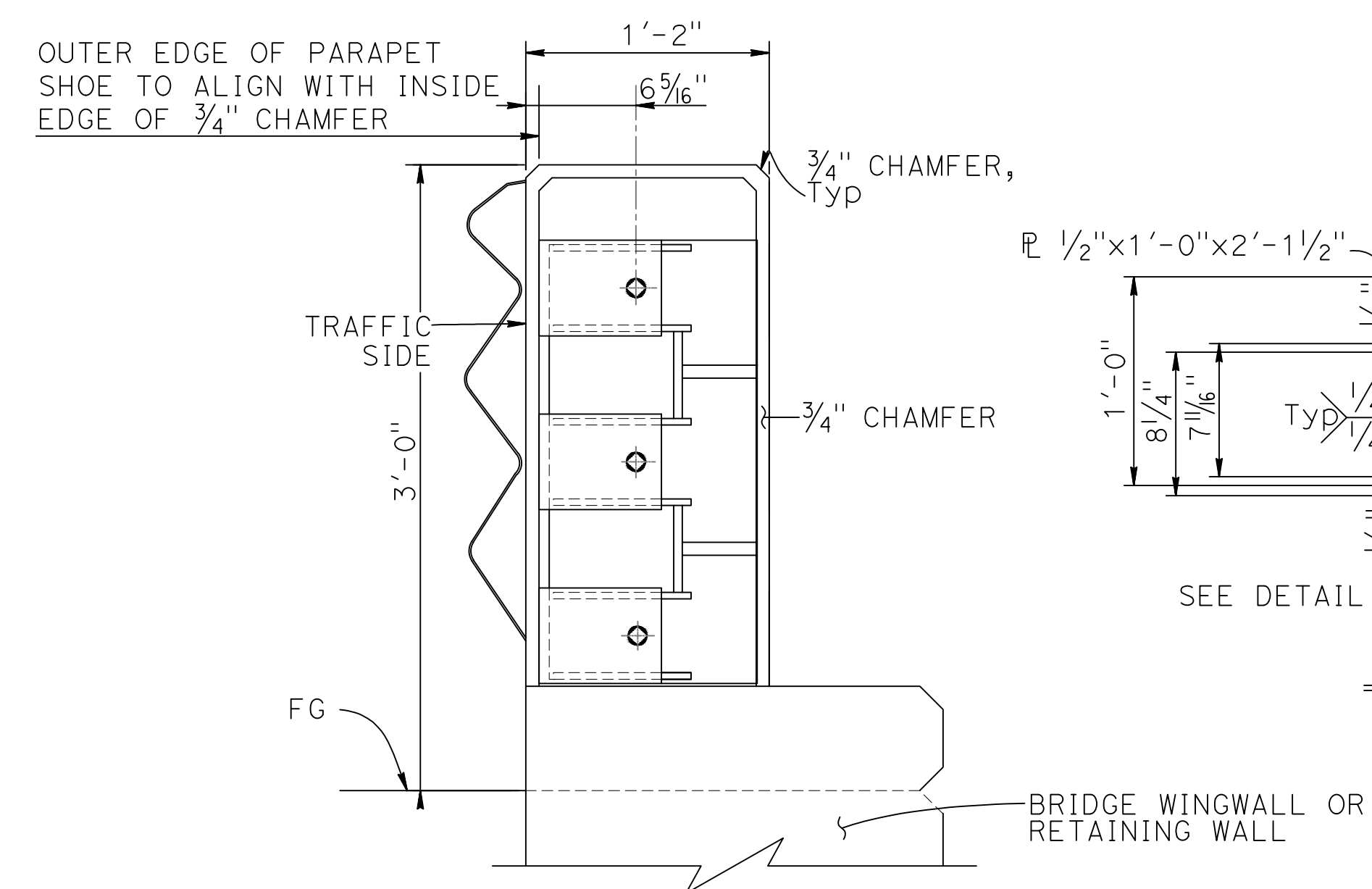
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 03 | Glenn | CR 67 | NA | 30 | 33 |

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



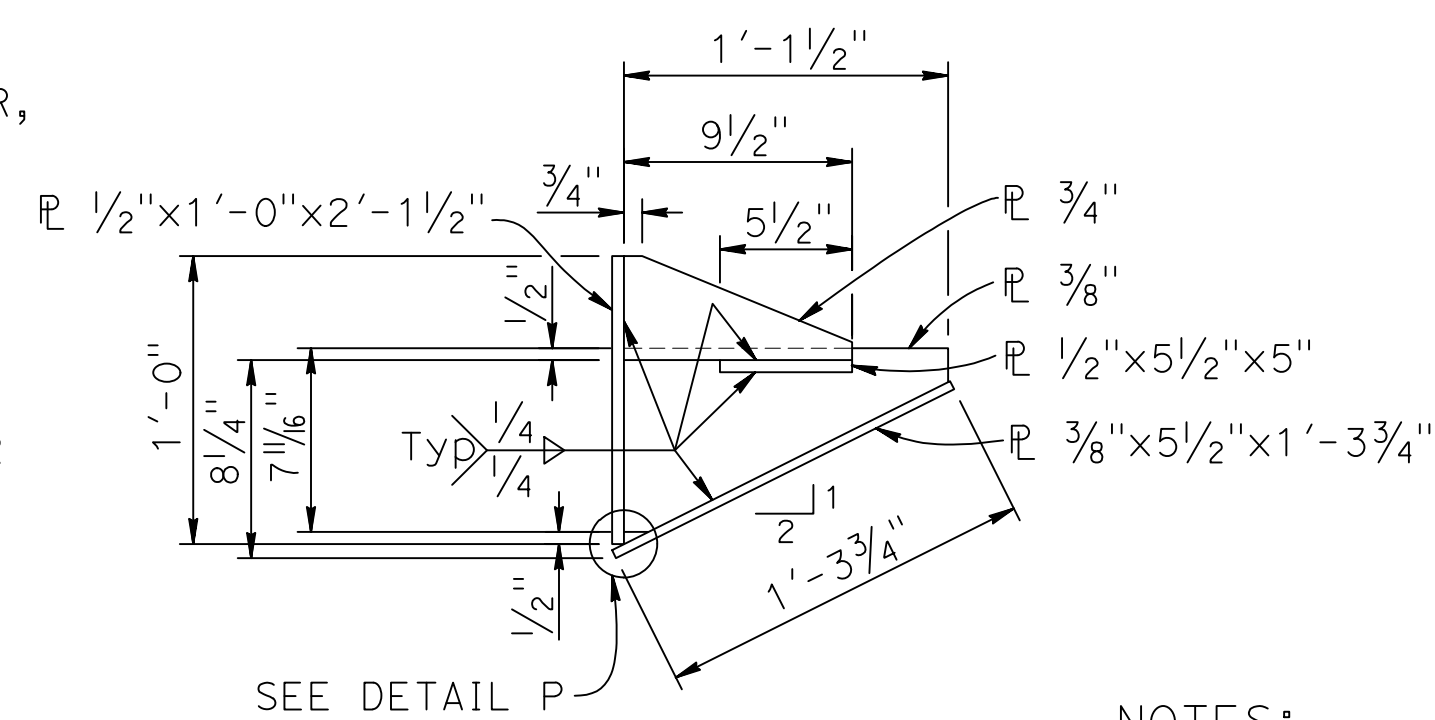
PARAPET SHOE AT DEPARTURE END BLOCK

3/4" = 1'-0"
 NOTE: Parapet shoe connection to approach end block is similar.



SECTION J-J

3/4" = 1'-0"
 NOTE: Bridge railing not shown clarity.

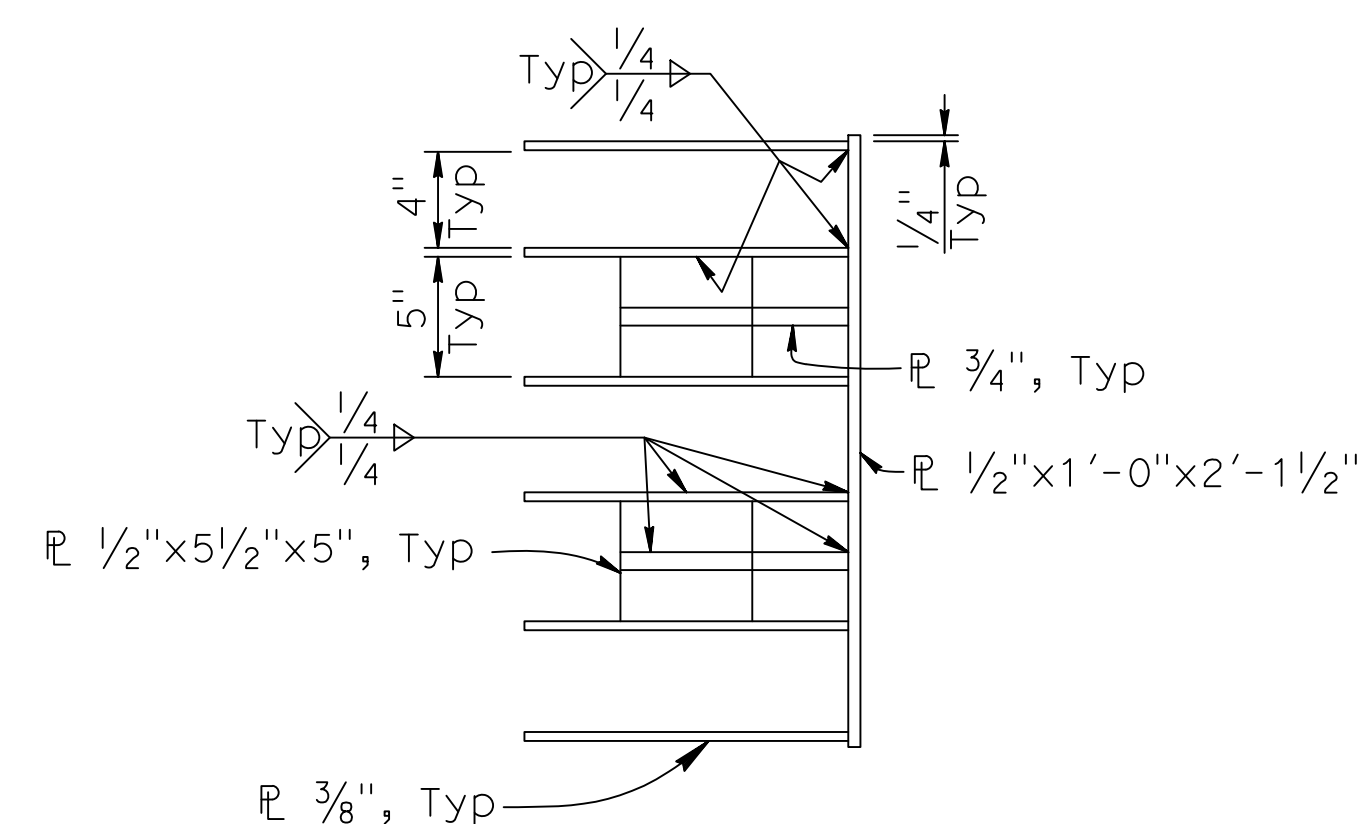


SECTION K-K

1/2" = 1'-0"

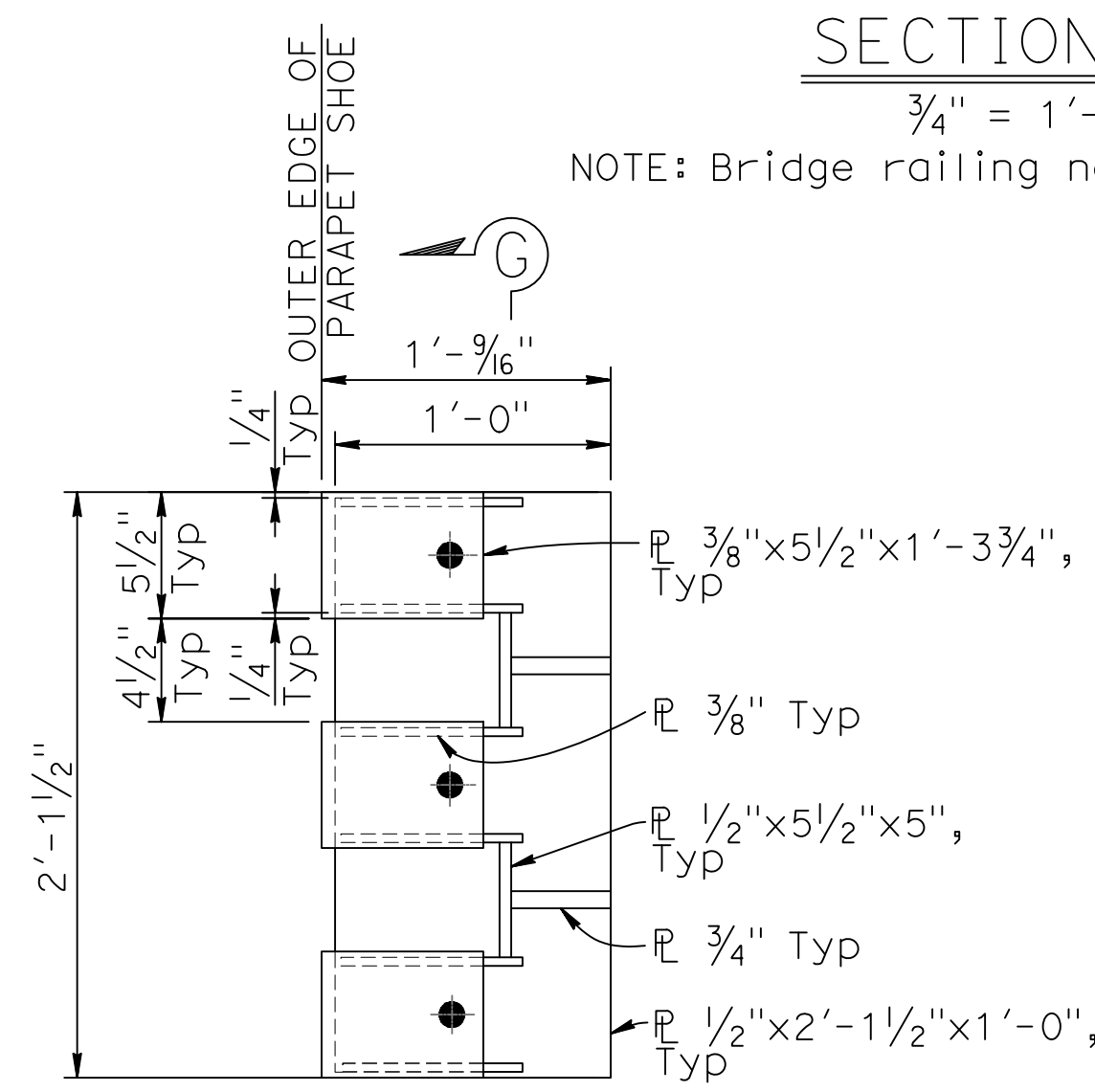
NOTES:

- Anchor bolts must be 7/8" Dia and ASTM F1554 Grade 105 fully threaded rods with heavy hex nut and one hardened washer (1 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 manufacture's instructions.



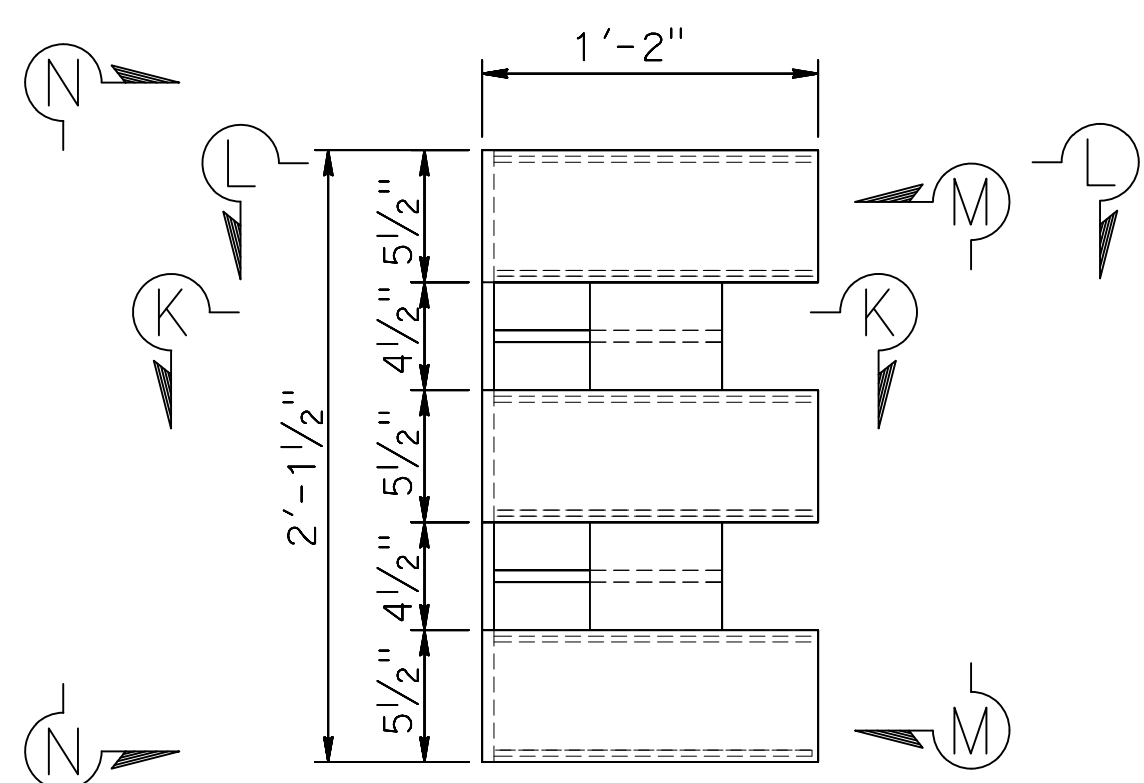
SECTION Q-Q

1/2" = 1'-0"



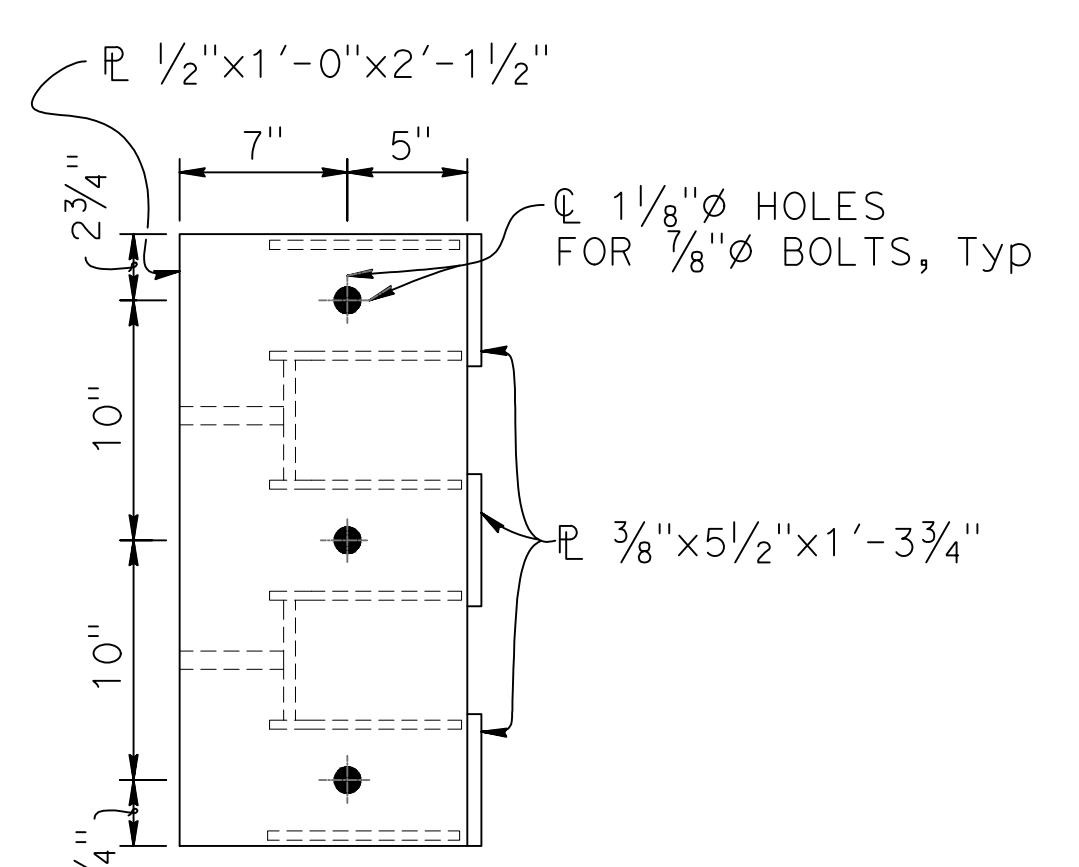
VIEW M-M

1/2" = 1'-0"



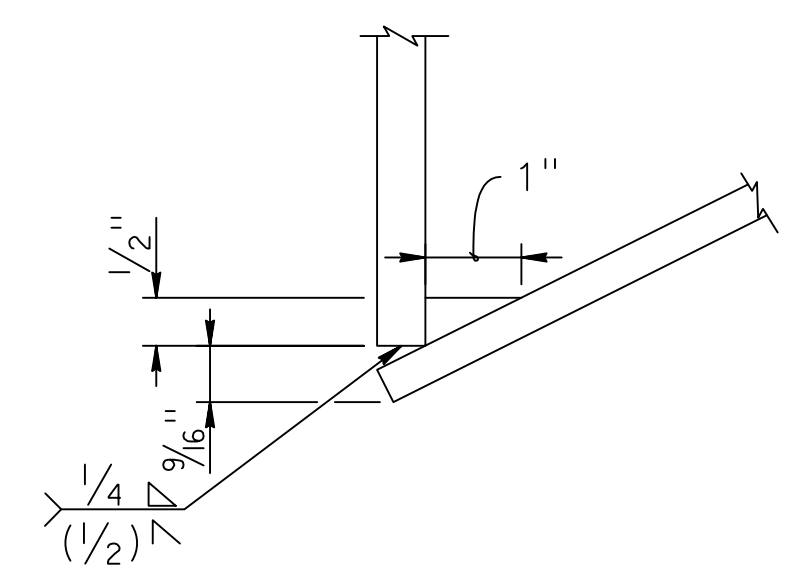
PARAPET SHOE ELEVATION

1/2" = 1'-0"



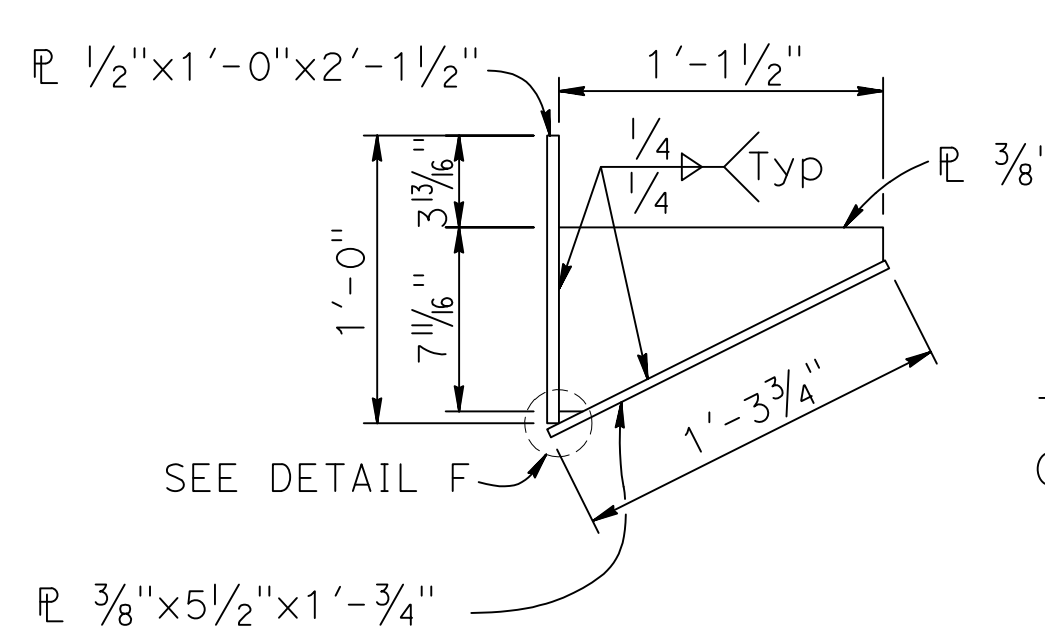
VIEW N-N

1/2" = 1'-0"



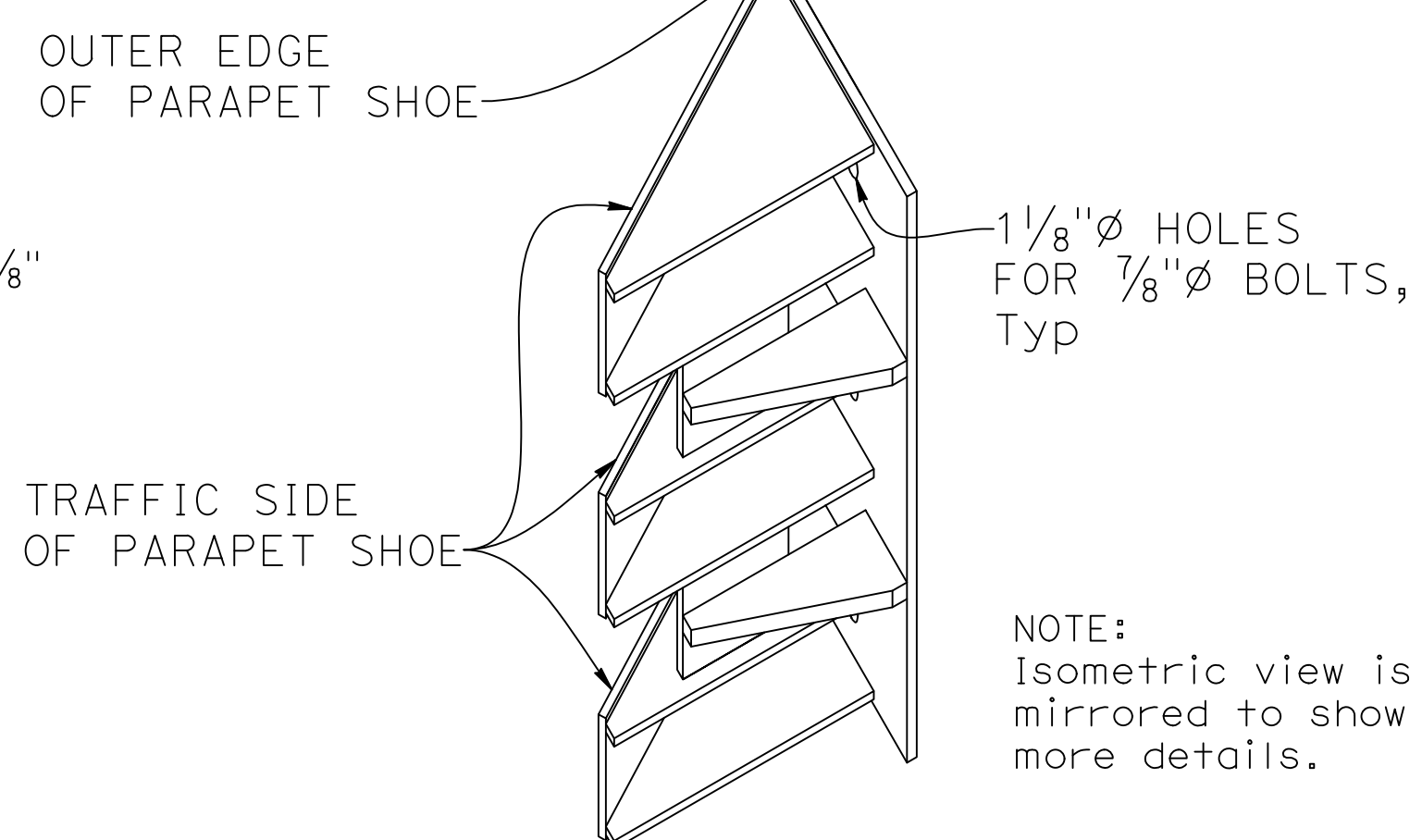
DETAIL F

6" = 1'-0"



SECTION L-L

1/2" = 1'-0"



ISOMETRIC VIEW

1/2" = 1'-0"

NOTE: Isometric view is mirrored to show more details.

| BRIDGE STANDARD DETAILS | | |
|-------------------------|---------------|--|
| xs16-116-5 | 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 | G. GORDON | BRIDGE NO. | 11C0017 |
| COUNTY OF GLENN | PROJECT ENGINEER | POST MILES | NA |
| PUBLIC WORKS AGENCY | | | |

| | | | |
|--|--|--|--|
| BRANCH HOWARD SLOUGH BRIDGE (REPLACE) | | | |
| CALIFORNIA ST-75 BRIDGE RAIL | | | |
| DETAILS No. 5 | | | |

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 => 11-0017-r-rspxs16-116-5

| | | | |
|---|----------------------------|-------|----|
| DISREGARD PRINTS BEARING EARLIER REVISION DATES | REVISION DATES | SHEET | OF |
| | 12/19/19 06/20/22 01/05/22 | 12 | 15 |

2022 STANDARD PLAN XS-16-116-5 DATE PLOTTED => 05/31/2023 AM 5:56:56 PM USERNAME => KEVIN

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 03 | Glenn | CR 67 | NA | 31 | 33 |

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

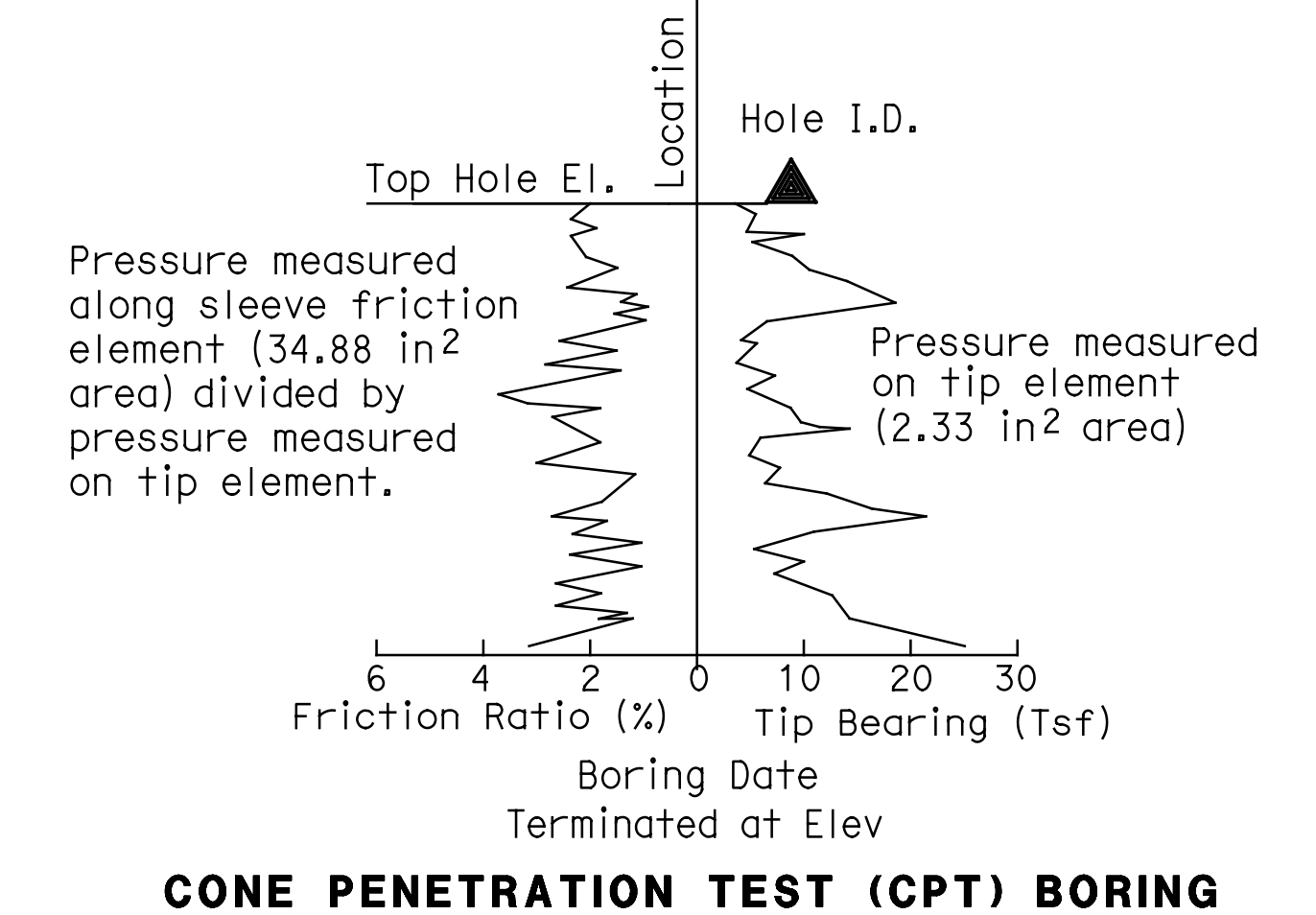
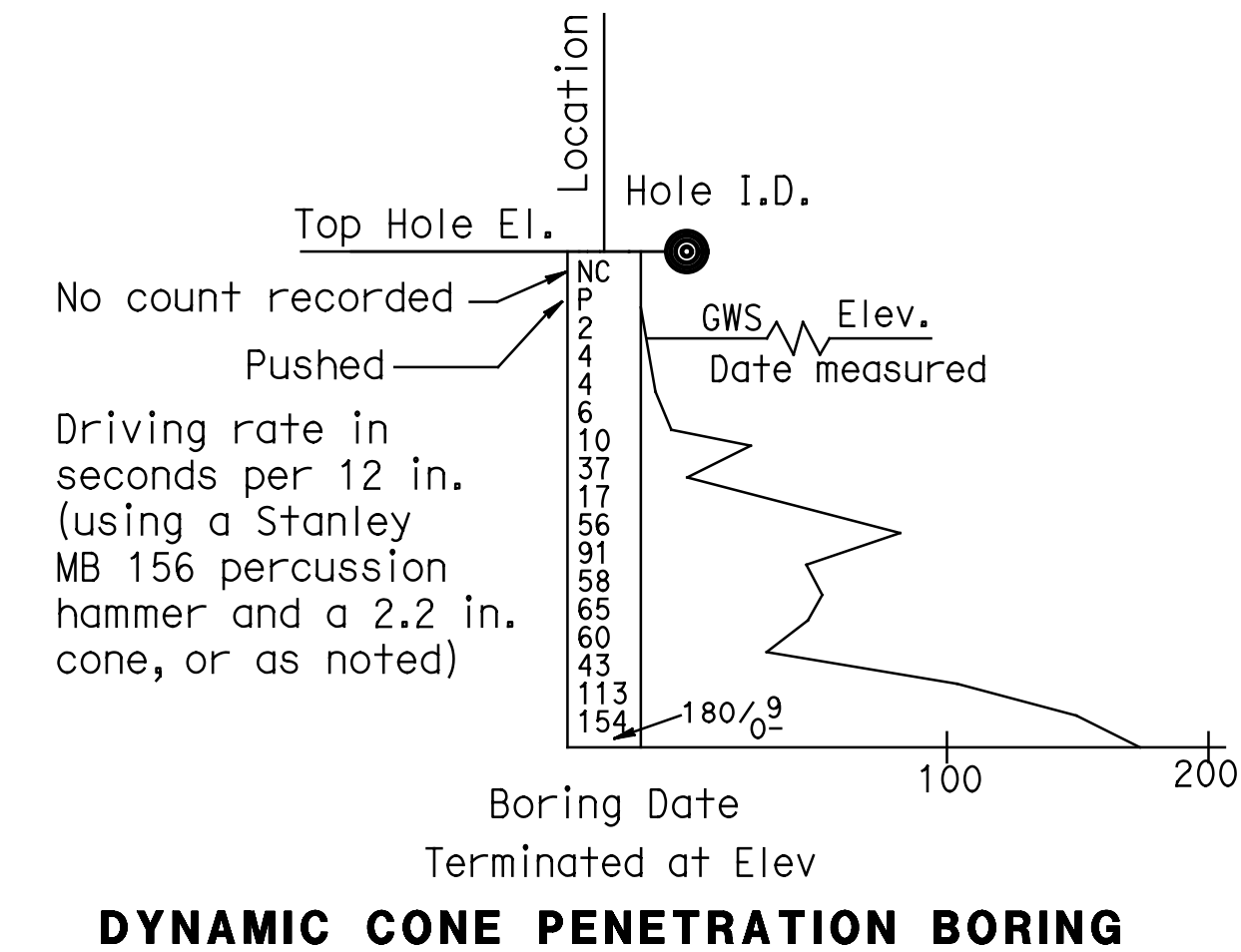
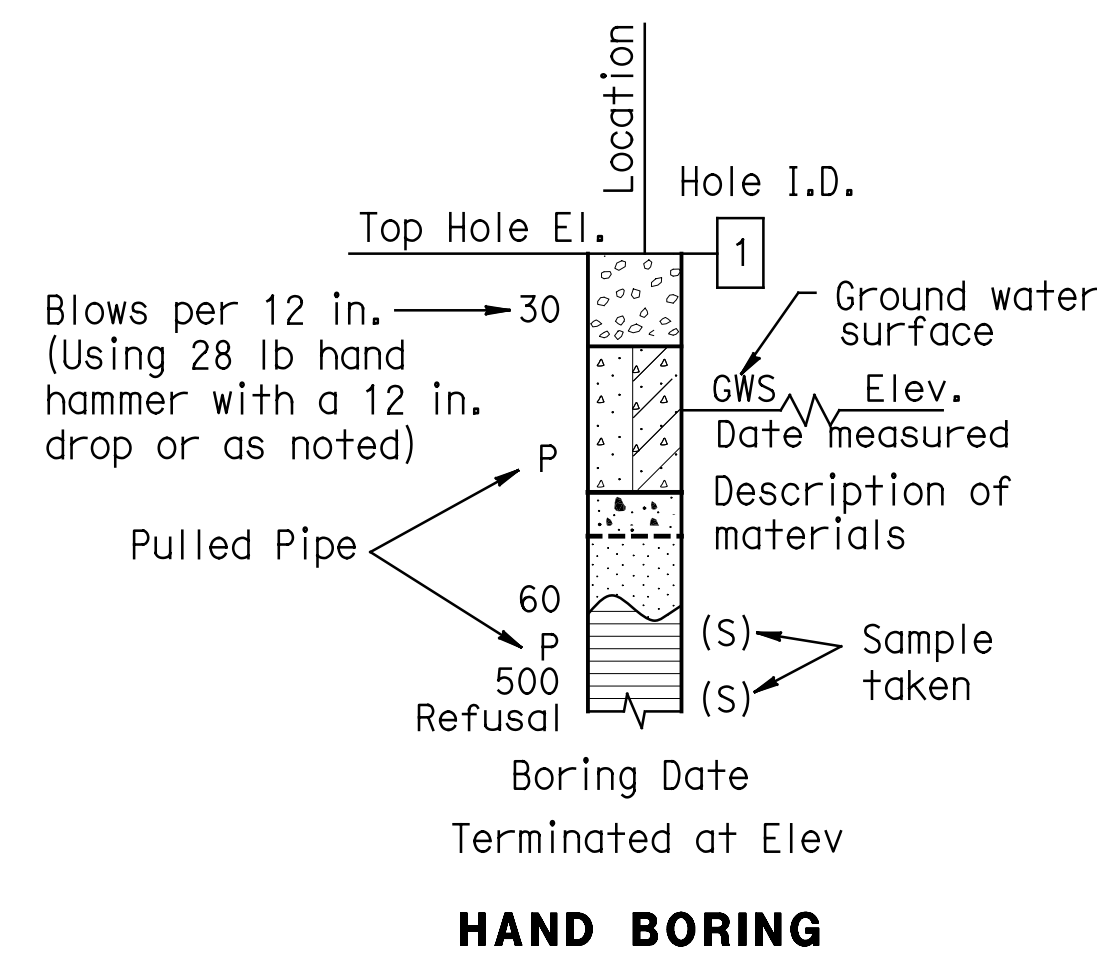
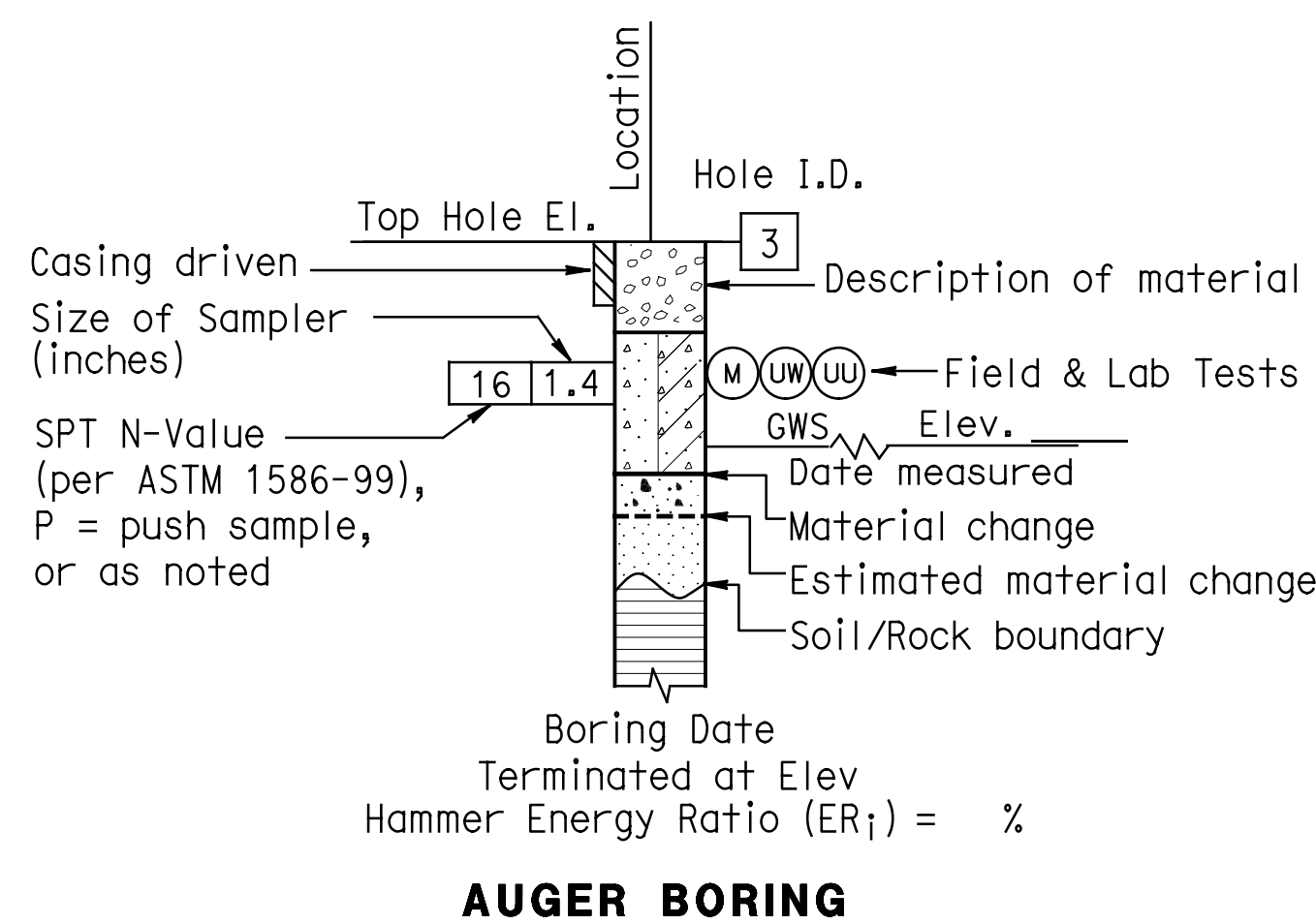
| CEMENTATION | |
|-------------|---|
| Description | Criteria |
| Weak | Crumbles or breaks with handling or little finger pressure. |
| Moderate | Crumbles or breaks with considerable finger pressure. |
| Strong | Will not crumble or break with finger pressure. |

| 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. | 11C0017 |
| POST MILES | NA |

PREPARED FOR
COUNTY OF GLENN
 PUBLIC WORKS AGENCY

G. GORDON
 PROJECT ENGINEER

| | |
|---------------------------------------|--|
| HOWARD SLOUGH BRIDGE (REPLACE) | |
| SOIL LEGEND 1 OF 2 | |

USERNAME => Richard DATE PLOTTED => 6/21/2018 TIME PLOTTED => 3:52:33 PM



 7/19/13
 GEOTECHNICAL PROFESSIONAL DATE
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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 | | GRAVELLY lean CLAY with SAND |
| | Well-graded GRAVEL with CLAY and SAND | | SILTY CLAY |
| | Well-graded GRAVEL with CLAY and SAND | | SILTY CLAY with SAND |
| | Well-graded GRAVEL with CLAY and SAND | | SILTY CLAY with GRAVEL |
| | Poorly-graded GRAVEL with SILT | | SANDY SILTY CLAY |
| | Poorly-graded GRAVEL with SILT and SAND | | SANDY SILTY CLAY with GRAVEL |
| | Poorly-graded GRAVEL with CLAY | | GRAVELLY SILTY CLAY |
| | Poorly-graded GRAVEL with CLAY and SAND | | GRAVELLY SILTY CLAY with SAND |
| | SILTY GRAVEL | | SILT |
| | SILTY GRAVEL with SAND | | SILT with SAND |
| | CLAYEY GRAVEL | | SILT with GRAVEL |
| | CLAYEY GRAVEL with SAND | | SANDY SILT |
| | SILTY, CLAYEY GRAVEL | | SANDY SILT with GRAVEL |
| | SILTY, CLAYEY GRAVEL with SAND | | GRAVELLY SILT |
| | Well-graded SAND | | GRAVELLY SILT with SAND |
| | Well-graded SAND with GRAVEL | | ORGANIC lean CLAY |
| | Poorly-graded SAND | | ORGANIC lean CLAY with SAND |
| | Poorly-graded SAND with GRAVEL | | ORGANIC lean CLAY with GRAVEL |
| | Well-graded SAND with SILT | | SANDY ORGANIC lean CLAY |
| | Well-graded SAND with SILT and GRAVEL | | GRAVELLY ORGANIC lean CLAY |
| | Well-graded SAND with CLAY | | GRAVELLY ORGANIC lean CLAY with SAND |
| | Well-graded SAND with CLAY and GRAVEL | | ORGANIC SILT |
| | Poorly-graded SAND with SILT | | ORGANIC SILT with SAND |
| | Poorly-graded SAND with SILT and GRAVEL | | ORGANIC SILT with GRAVEL |
| | Poorly-graded SAND with CLAY | | SANDY ORGANIC SILT |
| | Poorly-graded SAND with CLAY and GRAVEL | | SANDY ORGANIC SILT with GRAVEL |
| | SILTY SAND | | GRAVELLY elastic SILT |
| | SILTY SAND with GRAVEL | | GRAVELLY elastic SILT with SAND |
| | CLAYEY SAND | | ORGANIC fat CLAY |
| | CLAYEY SAND with GRAVEL | | ORGANIC fat CLAY with SAND |
| | SILTY, CLAYEY SAND | | ORGANIC fat CLAY with GRAVEL |
| | SILTY, CLAYEY SAND with GRAVEL | | SANDY ORGANIC fat CLAY |
| | PEAT | | SANDY ORGANIC fat CLAY with GRAVEL |
| | PEAT | | GRAVELLY ORGANIC fat CLAY |
| | COBBLES | | GRAVELLY ORGANIC fat CLAY with SAND |
| | COBBLES and BOULDERS | | 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 |

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 | |

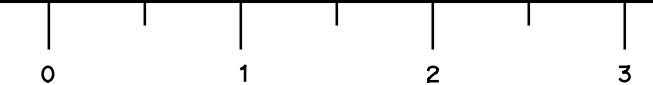
DRAWN BY: S. McCracken
 CHECKED BY: R. Khiabani
 B. KILLEEN
 FIELD INVESTIGATION BY:
 DATE: X

PREPARED FOR
COUNTY OF GLENN
PUBLIC WORKS AGENCY

G. GORDON
 PROJECT ENGINEER
 BRIDGE NO. 11C0017
 POST MILES NA

HOWARD SLOUGH BRIDGE (REPLACE)
SOIL LEGEND 2 OF 2

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



USERNAME => Richard DATE PLOTTED => 6/21/2018 TIME PLOTTED => 3:52:33 PM

BENCH MARK

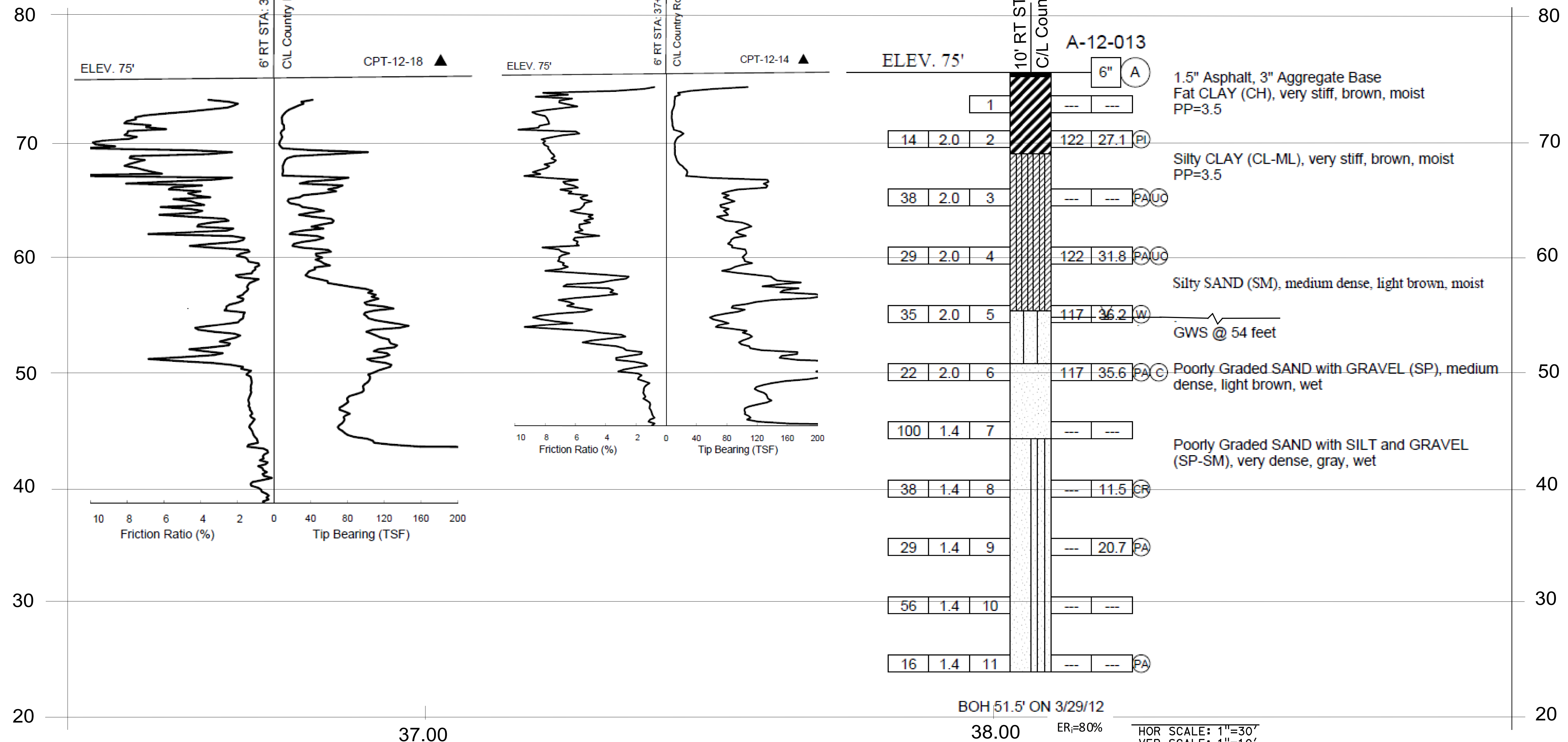
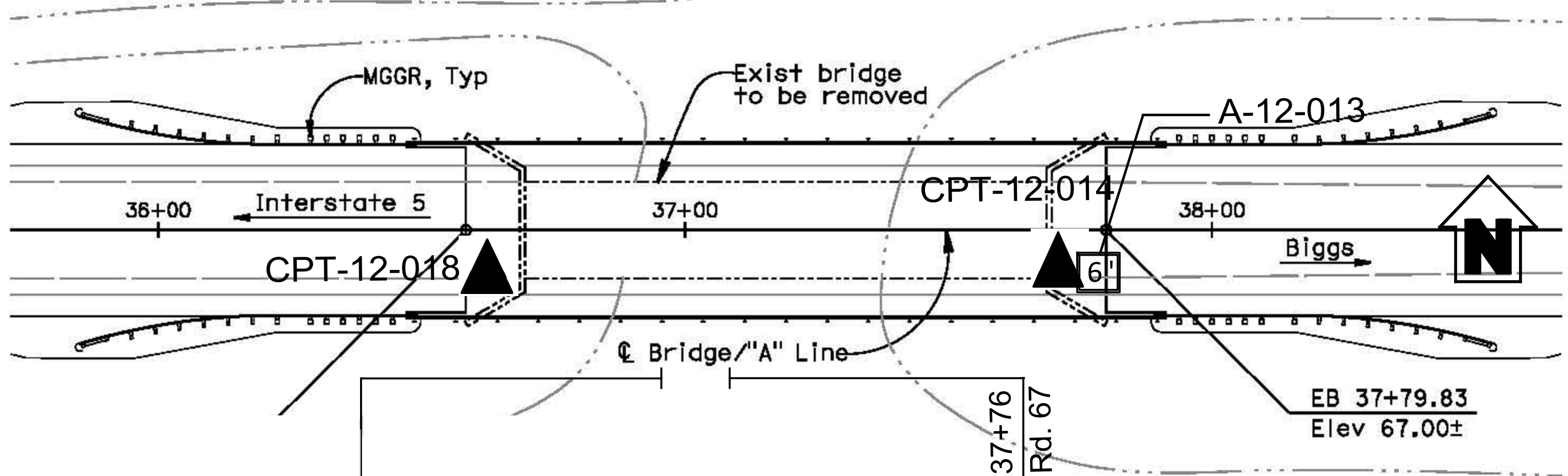
DH3659 Survey Disk in Concrete Wing Wall at the South East Corner of Bridge 11C-0017 along Rd H, ELEV. 74.90
Horizontal Datum is NAD83
Vertical Datum is NAVD88

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 03 | Glenn | CR 67 | NA | 33 | 33 |

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



| | | | | | |
|--------------------------|--|---|-------------------------------|---|---|
| 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. 11C0017 POST MILES NA | HOWARD SLOUGH BRIDGE (REPLACE) LOG OF TEST BORINGS |
|--------------------------|--|---|-------------------------------|---|---|