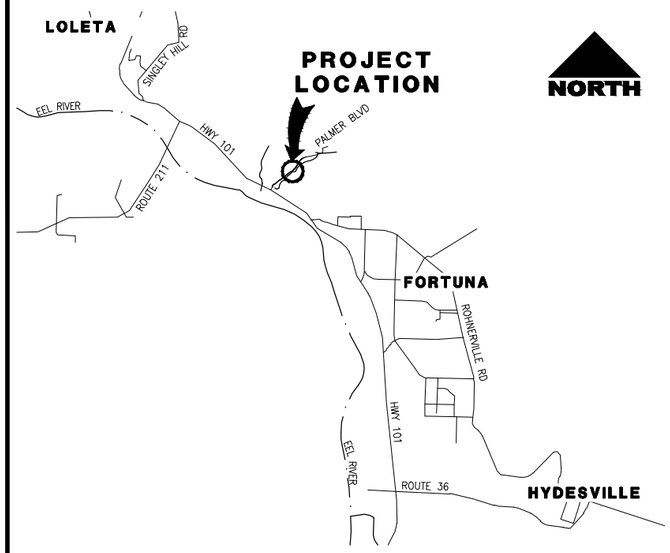
BAR IS ONE INCH ON ORIGINAL DRAWING	ROAD NAME: PALMER BOULEVARD		MARK THOMAS	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 1 OF 13
	ROAD NO: 3H065	MILE POST: 0.33			
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	PROJECT NO.: FEMA-4434-DR-CA PW-208	EA NO.:	DESIGNED BY: SK	PALMER BLVD STORM DAMAGE (PM 0.33)	
	CONTRACT NO.: 219311	BRIDGE NO: N/A	DRAWN BY: JA		
	DRAWING FILE NAME:		REVIEWED BY: GH	TITLE	
	PLOT DATE: 10/09/2025	REVISION DATE:	APPROVED BY: EM		

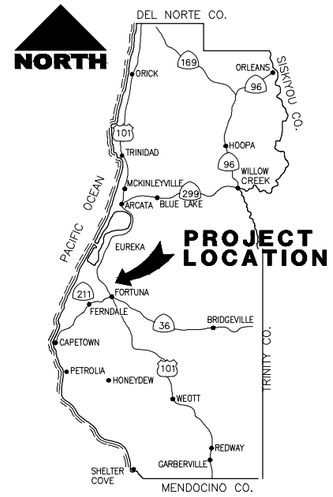


VICINITY MAP

NOT TO SCALE

COUNTY OF HUMBOLDT
DEPARTMENT OF PUBLIC WORKS
PROJECT PLANS FOR CONSTRUCTION TO
STORM DAMAGE REPAIR ON PALMER BOULEVARD [3H065] AT P.M. 0.33
FEDERAL PROJECT NO. FEMA-4434-DR-CA PW-208
CONTRACT NO. 219311

TO BE SUPPLEMENTED BY STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION 2024 STANDARD PLANS AND STANDARD SPECIFICATIONS



LOCATION MAP

NOT TO SCALE

INDEX OF SHEETS

1	TITLE SHEET
2	PROJECT CONTROL
3	TYPICAL CROSS SECTION
4	LAYOUT AND PROFILE
5	DRAINAGE AND UTILITIES
6	EROSION CONTROL
7	STAGE CONSTRUCTION
8–13	STRUCTURE PLANS

NOTES

1. THE CONTRACTOR SHALL HAVE A CLASS "A" LICENSE FOR THIS PROJECT.
2. STANDARD PLAN LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE SPECIAL PROVISIONS.
3. LATITUDE: 40.6080
   LONGITUDE: −124.1740

GEOTECH REPORT

2022 CRAWFORD & ASSOCIATES, INC.

APPROVED BY:

TONY SEGHETTI, RCE 63714
COUNTY OF HUMBOLDT
PUBLIC WORKS DEPUTY DIRECTOR

10/14/2025
DATE

REGISTERED PROFESSIONAL ENGINEER
JASON BRADFORD HICKEY
No. S5783
Exp. 6/30/26
STRUCTURAL
STATE OF CALIFORNIA

JASON BRADFORD HICKEY
RSE S5783, EXP. 6/30/2026

10/09/2025
DATE

ORIGINAL LOW BID PRICE	CONSTRUCTED BY	RESIDENT ENGINEER
	PROJECT COMPLETED / /	CONSTRUCTION COST $

NOTES:

1. CONTRACTOR MUST COMPLY WITH BUSINESS AND PROFESSIONS CODE SECTION 8771 (b) REGARDING REFERENCING, PRESERVING AND RECONSTRUCTING MONUMENTS, WHETHER OR NOT MONUMENTS ARE SHOWN IN THESE PLANS.
2. IF MONUMENT IS DAMAGED BY CONTRACTOR'S OPERATIONS, CONTRACTOR SHALL REPLACE MONUMENT AT CONTRACTOR'S EXPENSE.

ABBREVIATIONS:

NGS NATIONAL GEODETIC SURVEY
PID PERMANENT IDENTIFIER

LEGEND:

△ CONTROL POINT
○ SURVEY MONUMENT

BASIS OF BEARINGS:

BEARING SHOWN HEREON ARE BASED TIES BETWEEN FOUND BRASS PINS SET IN CONCRETE SET IN A CENTERLINE MONUMENT WELL AS SHOWN ON BOOK 12 OF MAPS, PAGE 33–39 (SHOWN ON SHEET 4 & 7) BEING CALCULATED BEARING OF N53°40'11"E. SEE ALSO CORNER NOTES 31 & 58 PER BOOK 68 OF SURVEYS, PAGE 140.

BASIS OF ELEVATIONS NOTE:

THIS PROJECT IS BASED UPON AN ASSUMED ELEVATION OF 5000.00' AT POINT #1.

RIGHT OF WAY:

40' RIGHT OF WAY IS 40', 20' ON EACH SIDE OF THE CENTERLINE PER BOOK 12 OF MAPS, PAGES 33–39.

REGISTERED PROFESSIONAL ENGINEER
EDUARD MUZYCHUK
No. 90738
Exp. 12/31/25
CIVIL
STATE OF CALIFORNIA

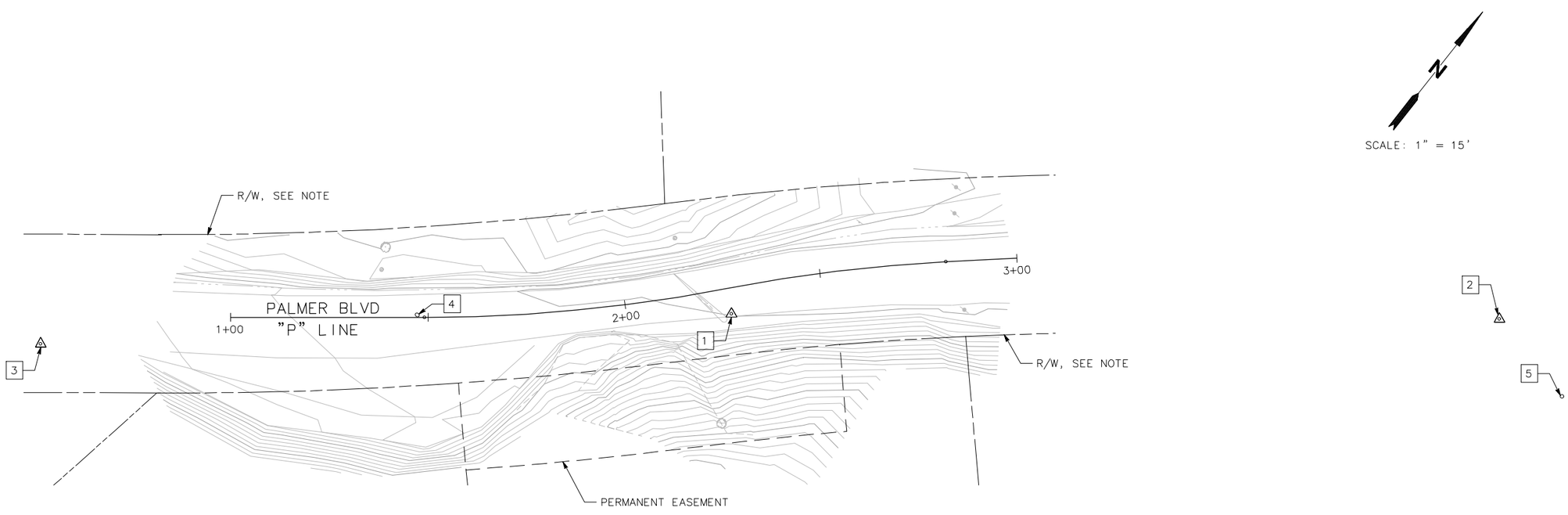
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

ROAD NAME: PALMER BOULEVARD		MARK THOMAS	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
ROAD NO: 3H065	MILE POST: 0.33		
PROJECT NO.: FEMA-4434-DR-CA PW-208	EA NO.:	DESIGNED BY: SK	PALMER BLVD STORM DAMAGE (PM 0.33)
CONTRACT NO.: 219311	BRIDGE NO: N/A	DRAWN BY: JA	PROJECT CONTROL
DRAWING FILE NAME:		REVIEWED BY: GH	
PLOT DATE: 10/09/2025	REVISION DATE:	APPROVED BY: EM	

SHEET 2 OF 13

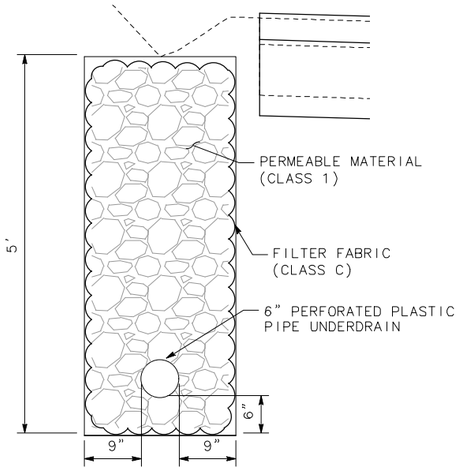
CONSTRUCTION SURVEY CONTROL DATA

POINT #	NORTHING	EASTING	ELEVATION	RAW DESCRIPTION	APPROX. LOCATION
1	4993.86	5005.27	5000.00	SET.GYNSPIKETAHUMCOSURVEY	"P" 2+26.08 6.54' Rt
2	5113.98	5157.99	5002.61	SET.GYNSPIKETAHUMCOSURVEY	N/A
3	4880.34	4871.86	4997.29	SET.GYNSPIKETAHUMCOSURVEY	N/A
4	4985.06	4942.22	4998.08	FDPININMONWELL	"P" 1+47.28 0.60' Lt
5	5307.34	5434.86	5005.96	FDPININMONWELL	N/A

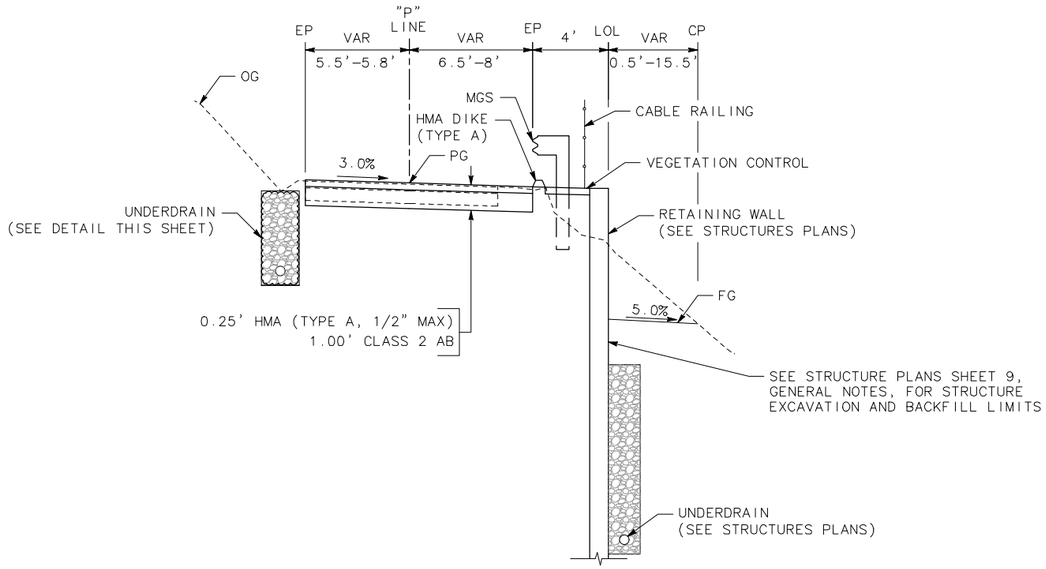


NOTES:

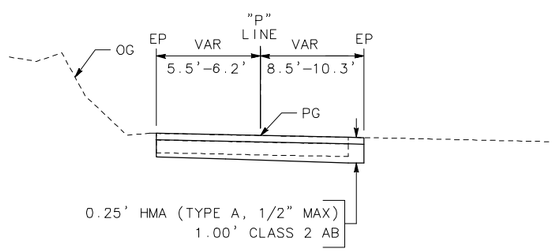
1. DIMENSIONS OF THE STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATION.
2. FOR CABLE RAILING DETAILS NOT SHOWN, SEE CALTRANS STANDARD PLANS, B11-47.
3. FOR UNDERDRAIN DETAILS NOT SHOWN, SEE CALTRANS STANDARD PLANS, D102.
4. FOR PLASTIC CULVERT EXCAVATION AND BACKFILL NOT SHOWN, SEE CALTRANS STANDARD PLANS, A62F.
5. FOR HMA DIKE DETAILS NOT SHOWN, SEE CALTRANS STANDARD PLANS, A87B AND A77N4.
6. FOR NARROW ROADWAY INSTALLATION OF MGS, SEE CALTRANS STANDARD PLAN, A77N3.



UNDERDRAIN DETAIL
NO SCALE



PALMER BOULEVARD
"P" 1+67.79 TO 2+34.05



PALMER BOULEVARD
"P" 1+37.19 TO 1+67.79
"P" 2+34.05 TO 2+40.02

REGISTERED PROFESSIONAL ENGINEER
EDUARD MUZYCHUK
No. 90738
Exp. 12/31/25
CIVIL
STATE OF CALIFORNIA

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ROAD NO: 3H065	MILE POST: 0.33		
PROJECT NO.: FEMA-4434-DR-CA PW-208	EA NO.:	DESIGNED BY: SK	PALMER BLVD STORM DAMAGE (PM 0.33)
CONTRACT NO.: 219311	BRIDGE NO: N/A	DRAWN BY: JA	TYPICAL CROSS SECTIONS
DRAWING FILE NAME:		REVIEWED BY: GH	
PLOT DATE: 10/09/2025	REVISION DATE:	APPROVED BY: EM	

SHEET 3 OF 13

X-1

NOTE:

1. ALL CALLOUTS ON THIS SHEET REFERENCE THE "P" LINE UNLESS OTHERWISE NOTED.
2. NO DRAINAGE SHALL BE DIRECTED TOWARD THE HOUSE.

LEGEND

- CUT LINE
- FILL LINE
- SAWCUT
- RIGHT OF WAY
- EASEMENT
- MGS
- ALTERNATIVE IN-LINE TERMINAL SYSTEM (AITS) END ANCHOR ASSEMBLY (TYPE SFT-M)
- RETAINING WALL

REGISTERED PROFESSIONAL ENGINEER
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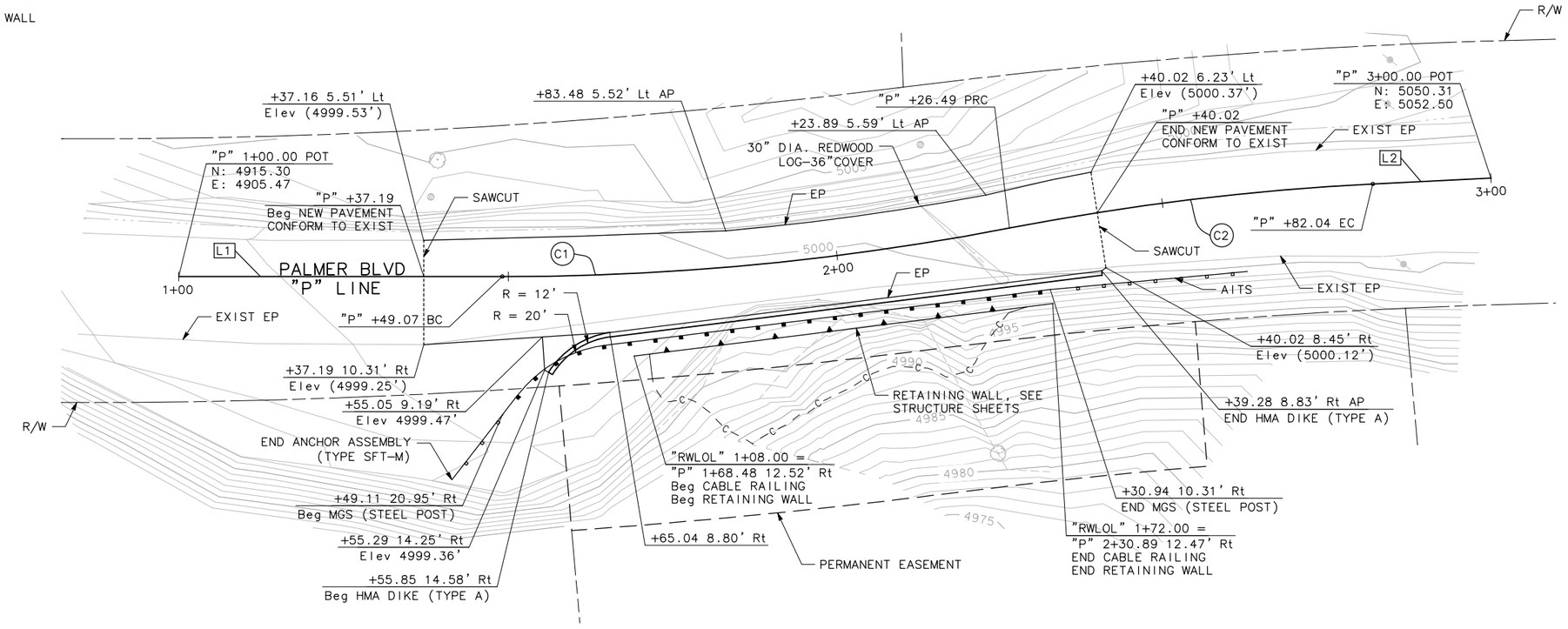
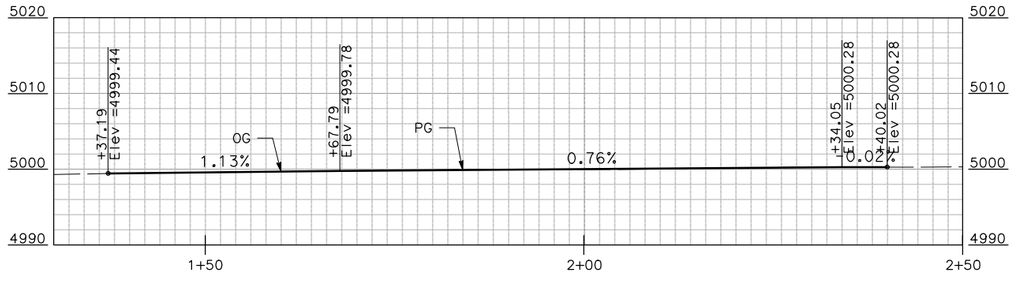
	CONTRACT NO.: 219311	BRIDGE NO: N/A	DRAWN BY: JA	LAYOUT AND PROFILE
	DRAWING FILE NAME:		REVIEWED BY: GH	
	PLOT DATE: 10/09/2025	REVISION DATE:	APPROVED BY: EM	

SHEET 4 OF 13



SCALE: 1" = 10'



PROFILE
SCALE: HORIZ 1" = 10'
VERT 1" = 10'

ALIGNMENT LINE TABLE

LINE #	LENGTH	DIRECTION
L1	49.07'	N51°43'55"E
L2	17.96'	N48°51'46"E

ALIGNMENT CURVE TABLE

CURVE	RADIUS	DELTA	TANGENT	LENGTH
C1	405.50'	10°56'17"	38.82'	77.41'
C2	394.50'	8°04'08"	27.82'	55.56'

L-1

NOTES:

1. ALL CALLOUTS ON THIS SHEET REFERENCE THE "P" LINE UNLESS OTHERWISE NOTED.
2. FOR UNDERDRAIN AND RISER DETAILS NOT SHOWN, SEE CALTRANS STANDARD PLAN D102.
3. ROCK SLOPE PROTECTION (RSP) EXCAVATION AND RSP FABRIC ARE PAID UNDER RSP.

LEGEND:

- e (oh) — EXIST OVERHEAD ELECTRICAL LINE
- tc (oh) — EXIST OVERHEAD TELECOMMUNICATIONS LINE
- gs — EXIST UNDERGROUND GAS LINE
- s — EXIST UNDERGROUND SANITARY SEWER LINE
- SD — STORM DRAIN
- UNDERDRAIN

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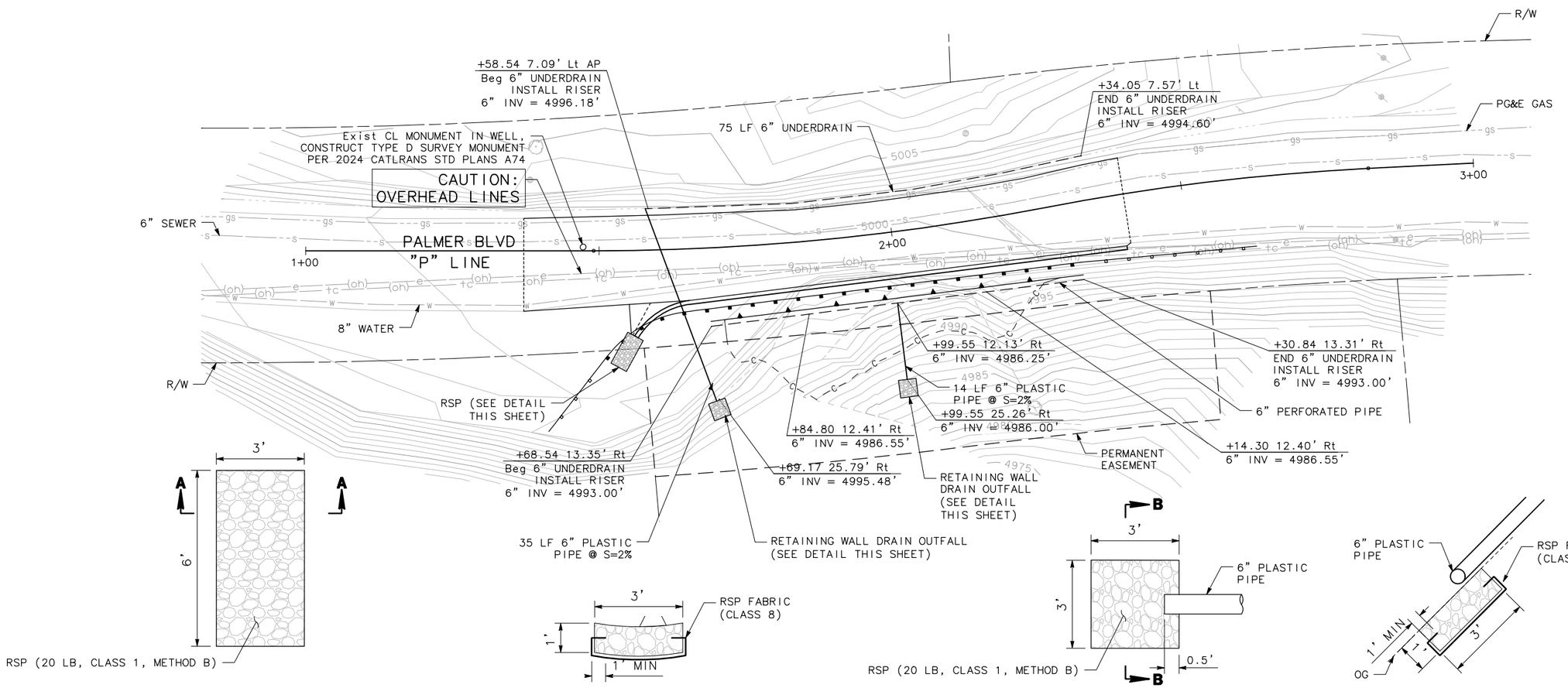
CONTRACT NO.: 219311	BRIDGE NO: N/A	DRAWN BY: JA	DRAINAGE AND UTILITIES
DRAWING FILE NAME:		REVIEWED BY: GH	
PLOT DATE: 10/09/2025	REVISION DATE:	APPROVED BY: EM	

SHEET 5 OF 13

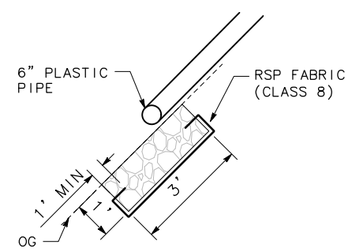
SCALE: 1" = 10'



ROCK SLOPE PROTECTION (RSP)
NOT TO SCALE

SECTION A-A

RETAINING WALL DRAIN OUTFALL
NOT TO SCALE



SECTION B-B

DU-1

NOTES:

1. CONSTRUCTION ENTRANCE BMP'S MUST BE INSTALLED TO CONTROL VEHICLE TRACKING.
2. FOR FIBER ROLLS, INSTALL TYPE 2 INSTALLATION PER LATEST CALTRANS BMP MANUAL

LEGEND:

- DRY SEED AND STRAW
- FR — FIBER ROLLS
- TFESA — TEMP REINFORCED SILT FENCE
- CD — TEMP CHECK DAM
- TE — TEMP CONSTRUCTION ENTRANCE

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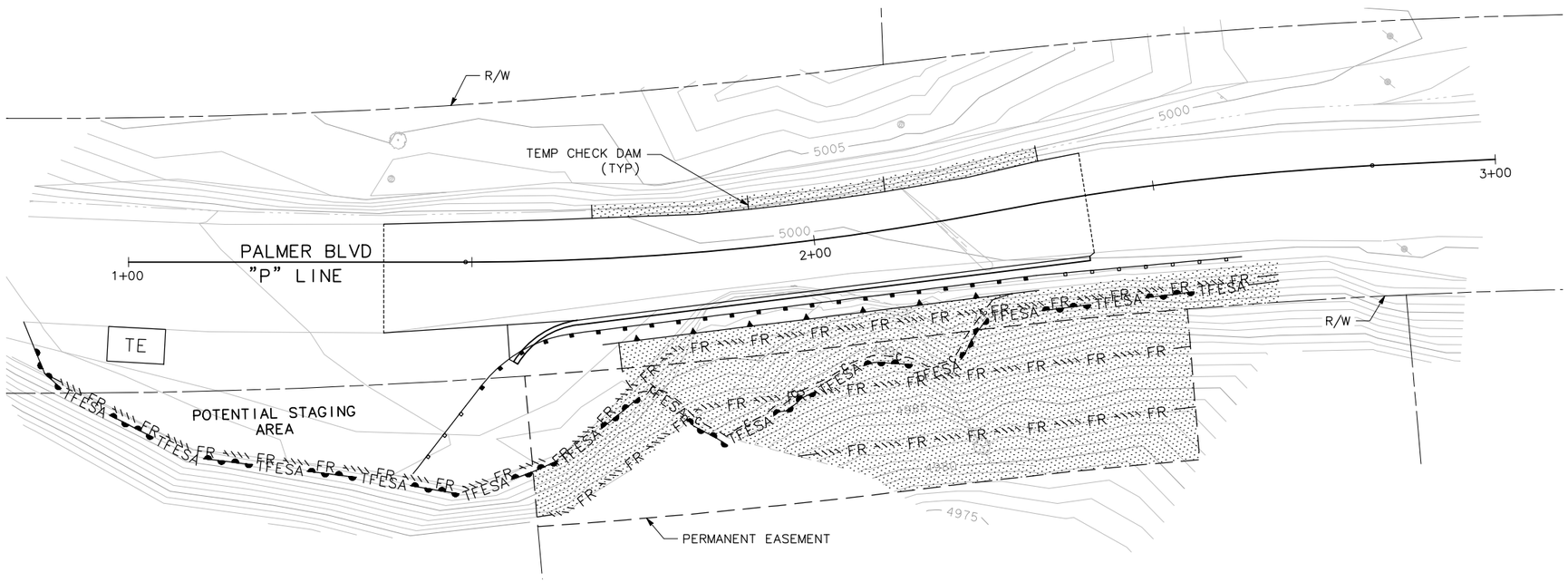
CONTRACT NO.: 219311	BRIDGE NO: N/A	DRAWN BY: JA	
DRAWING FILE NAME:		REVIEWED BY: GH	EROSION CONTROL
PLOT DATE: 10/09/2025	REVISION DATE:	APPROVED BY: EM	

SHEET 6 OF 13

SCALE: 1" = 10'



EC-1

NOTES:

1. SEE DRAINAGE AND UTILITY PLAN FOR ANY PERMANENT STORM DRAIN/UTILITIES NOT SHOWN ON THESE PLANS.

LEGEND

●	TEMPORARY CHANNELIZERS
▭	TEMPORARY RAILING (TYPE K)
▬	TEMPORARY 12" WHITE LIMIT LINE
⊤	CONSTRUCTION AREA SIGN SINGLE POST
⇄	TRAVEL DIRECTION(S)
▭▭▭	TEMPORARY CRASH CUSHION (ARRAY 'TL-2')
STOP	TEMPORARY STOP MARKING

CONSTRUCTION STAGE 1:

(1) PAINT TEMP 12" WIDE WHITE LIMIT LINE, EACH DIRECTION. PLACE ADVANCED WARNING CONSTRUCTION AREA SIGNS AS SHOWN.

(2) CONSTRUCT SOLDIER PILE WALL AND RETAINING WALL DRAIN OUTFALL.

(3) CONSTRUCT ROADWAY AND RSP PAD.

CONSTRUCTION STAGE 2:

(4) CONSTRUCT UNDERDRAIN

(5) RECONSTRUCT ROADWAY

(6) INSTALL MGS, CABLE RAILING, AND DIKE

TRAFFIC CONTROL

1. ALLOW SINGLE-LANE CONTROLLED TRAFFIC AND PERIODIC TEMPORARY ROAD CLOSURES DURING CONSTRUCTION.
2. PROVIDE MINIMUM NOTICE OF 2 WEEKS PRIOR TO CLOSURES LONGER THAN 15 MINUTES.

REGISTERED PROFESSIONAL ENGINEER
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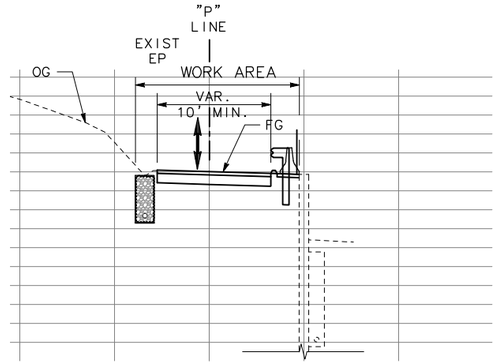
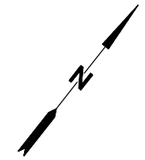
CONTRACT NO.: 219311	BRIDGE NO: N/A	DRAWN BY: JA	STAGE CONSTRUCTION
DRAWING FILE NAME:		REVIEWED BY: GH	
PLOT DATE: 10/09/2025	REVISION DATE:	APPROVED BY: EM	

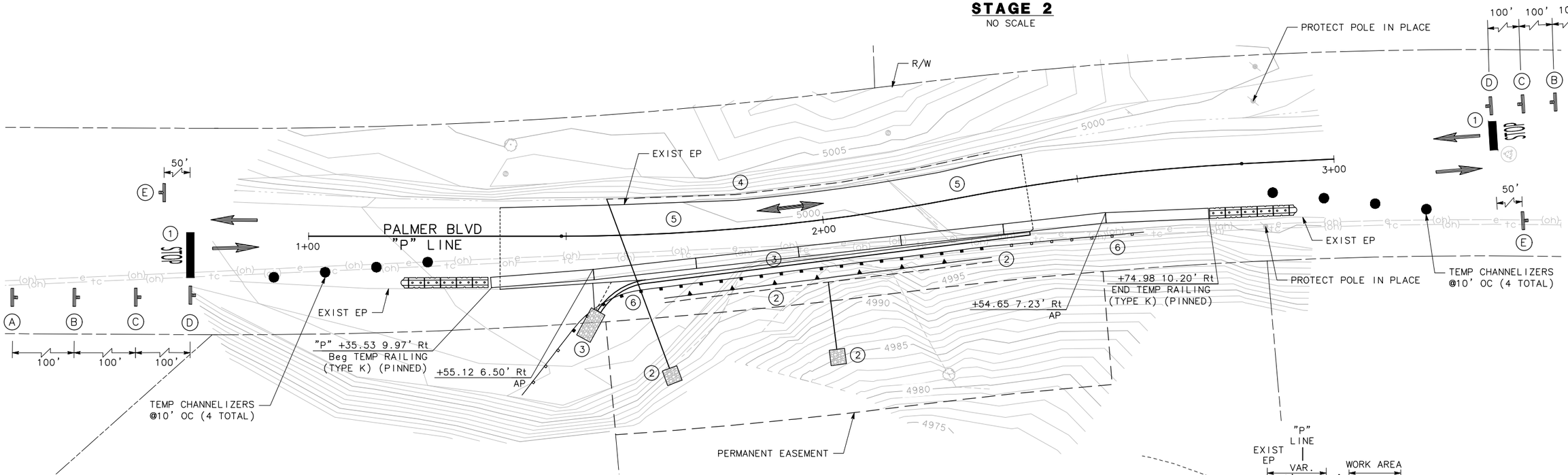
SHEET 7 OF 13



STAGE 2
NO SCALE

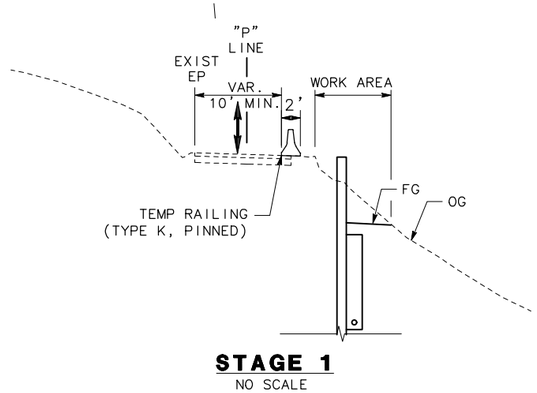


SCALE: 1" = 10'



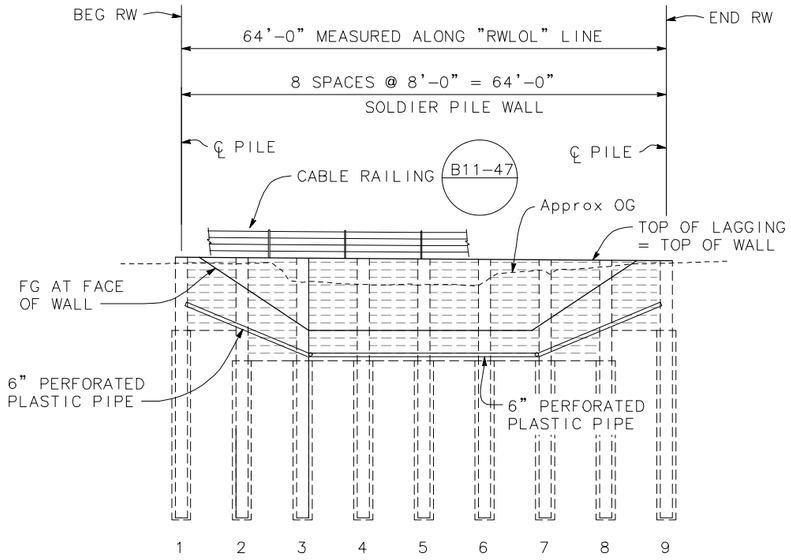
CONSTRUCTION AREA SIGNS

SIGN LETTER	SIGN CODE	SIGN MESSAGE
A	W20-1	ROAD WORK AHEAD
B	W20-4	ONE LANE ROAD AHEAD
	W13-1P	20 MPH
C	W3-1	STOP AHEAD
D	R1-1	STOP
E	G20-2	END ROAD WORK



STAGE 1
NO SCALE

SC-1

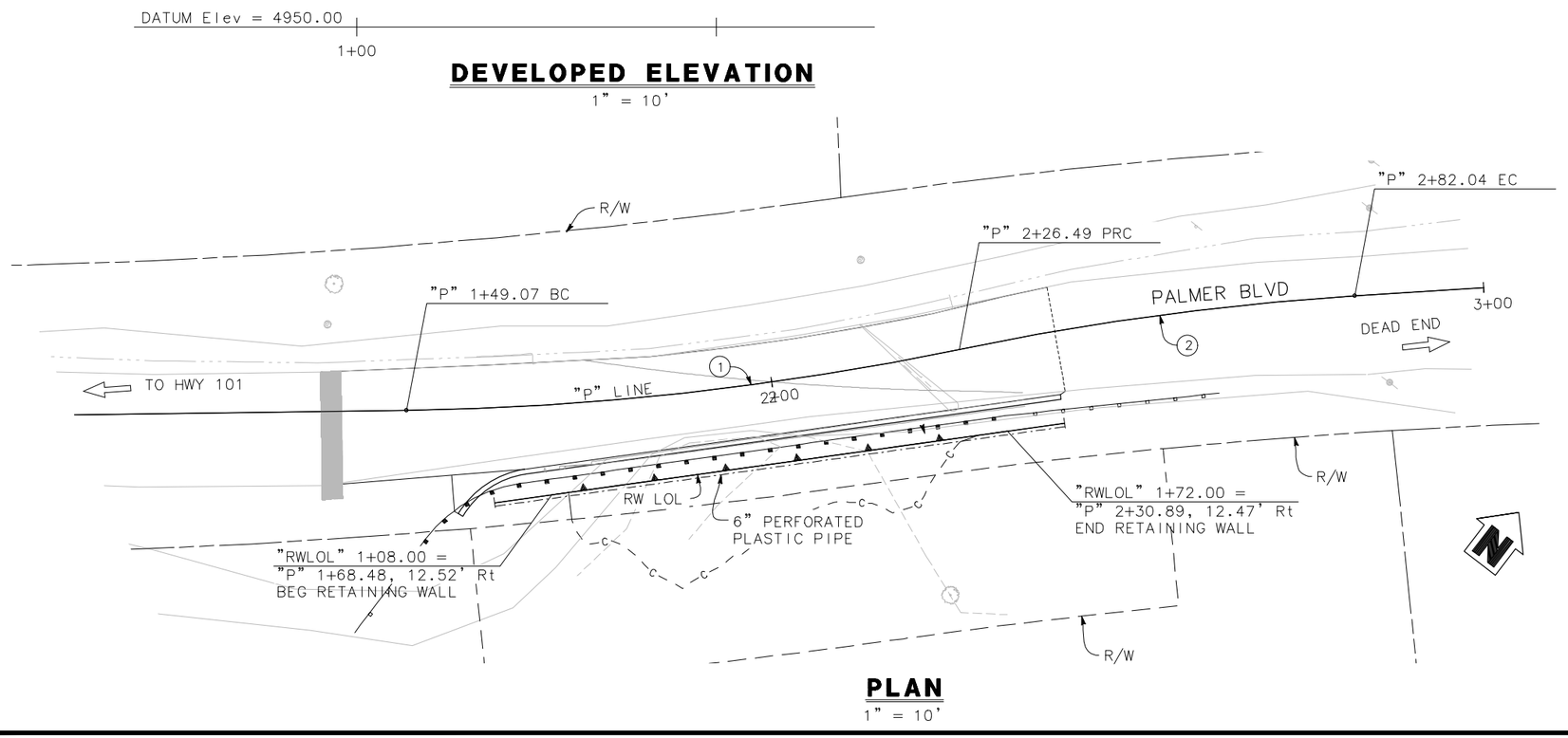


QUANTITIES

STRUCTURE EXCAVATION (SOLDIER PILE WALL)	27	CY
STRUCTURE BACKFILL (SOLDIER PILE WALL)	14	CY
CONCRETE BACKFILL (SOLDIER PILE WALL)	36	CY
LEAN CONCRETE BACKFILL	16	CY
STEEL SOLDIER PILE (W 18 X 130)	308	LF
30" DRILLED HOLE	295	LF
TIMBER LAGGING	5	MFBM
CLEAN AND PAINT STEEL SOLDIER PILING	1	LS
6" PERFORATED PLASTIC PIPE UNDERDRAIN	64	LF
CLASS 1 PERMEABLE MATERIAL	19	CY
CABLE RAILING	64	LF

INDEX TO PLANS

SHEET NO.	TITLE
8	GENERAL PLAN
9	GENERAL NOTES
10	FOUNDATION PLAN
11	TYPICAL SECTION
12	SOLDIER PILE WALL LAGGING DETAILS
13	SOLDIER PILE WALL DETAILS NO. 1



CURVE TABLE				
CURVE #	RADIUS	DELTA	TANGENT	LENGTH
(1)	405.50'	10°56'17"	38.82'	77.42'
(2)	394.50'	8°04'08"	27.82'	55.55'

NOTES:

1. For MGS, see "ROADWAY PLANS"
2. For 6"ø plastic pipe outfall, see "ROADWAY PLANS"
3. For "TYPICAL SECTION," see "TYPICAL SECTION" Sheet

REGISTERED PROFESSIONAL ENGINEER
JASON BRADFORD HICKEY
No. S5783
Exp. 6/30/26
STRUCTURAL
STATE OF CALIFORNIA

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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NO: 3H065	MILE POST: 0.33		HUMBOLDT-ON CALL ENG/ENV SERVICES
	PROJECT NO.: FEMA-4434-DR-CA PW-208	EA NO.:	DESIGNED BY: JS	
	CONTRACT NO.: 219311	BRIDGE NO: N/A	DRAWN BY: ASM	GENERAL PLAN
	DRAWING FILE NAME:		REVIEWED BY: JH	
	PLOT DATE: 10/09/2025	REVISION DATE:	APPROVED BY: JH	

SHEET 8 OF 13

BAR IS ONE INCH ON ORIGINAL DRAWING	ROAD NAME: PALMER BOULEVARD		MARK THOMAS	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
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	DRAWING FILE NAME:		REVIEWED BY: JH	
	PLOT DATE: 10/09/2025	REVISION DATE:	APPROVED BY: JH	

GENERAL NOTES

DESIGN: AASHTO LRFD Bridge Design Specifications, 8th Edition with California Amendments.

LIVE LOAD: 240 psf equivalent to 2 feet soil weight.

SOIL PARAMETERS: (For determination of Design Lateral Earth Pressures)

Backfill soil weight = 128 lb/ft ^{3}
Friction Angle = 43°
Active Pressure coefficent, Ka = 0.336

SEISMIC PARAMETERS:

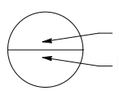
Seismic Active Earth Pressure = 59 lb/ft ^{3}

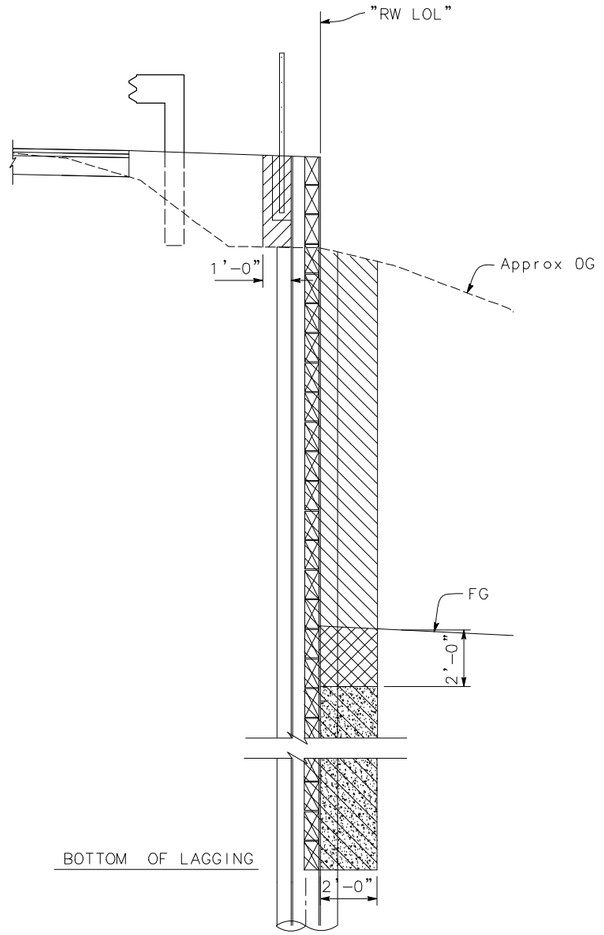
STEEL SOLDIER PILES: ASTM A572/A, ASTM 572M Grade 50 Min, or ASTM A992

STRUCTURAL TIMBER: Treated Douglas Fir, Grade No. 1 or better
Timber to be full sawn.

STANDARD PLANS DATED 2024

A3A	ABBREVIATIONS (SHEET 1 OF 3)
A3B	ABBREVIATIONS (SHEET 2 OF 3)
A3C	ABBREVIATIONS (SHEET 3 OF 3)
A10A	LEGEND – LINES AND SYMBOLS (SHEET 1 OF 5)
A10B	LEGEND – LINES AND SYMBOLS (SHEET 2 OF 5)
A10C	LEGEND – LINES AND SYMBOLS (SHEET 3 OF 5)
A10D	LEGEND – LINES AND SYMBOLS (SHEET 4 OF 5)
A10E	LEGEND – LINES AND SYMBOLS (SHEET 5 OF 5)
A10F	LEGEND – SOIL (SHEET 1 OF 2)
A10G	LEGEND – SOIL (SHEET 2 OF 2)
A10H	LEGEND – ROCK
A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL – BRIDGE SURCHARGE AND WALL
B11-47	CABLE RAILING





STRUCTURE BACKFILL AND EXCAVATION

NO SCALE

Indicates Structure Excavation, Soldier Pile Wall

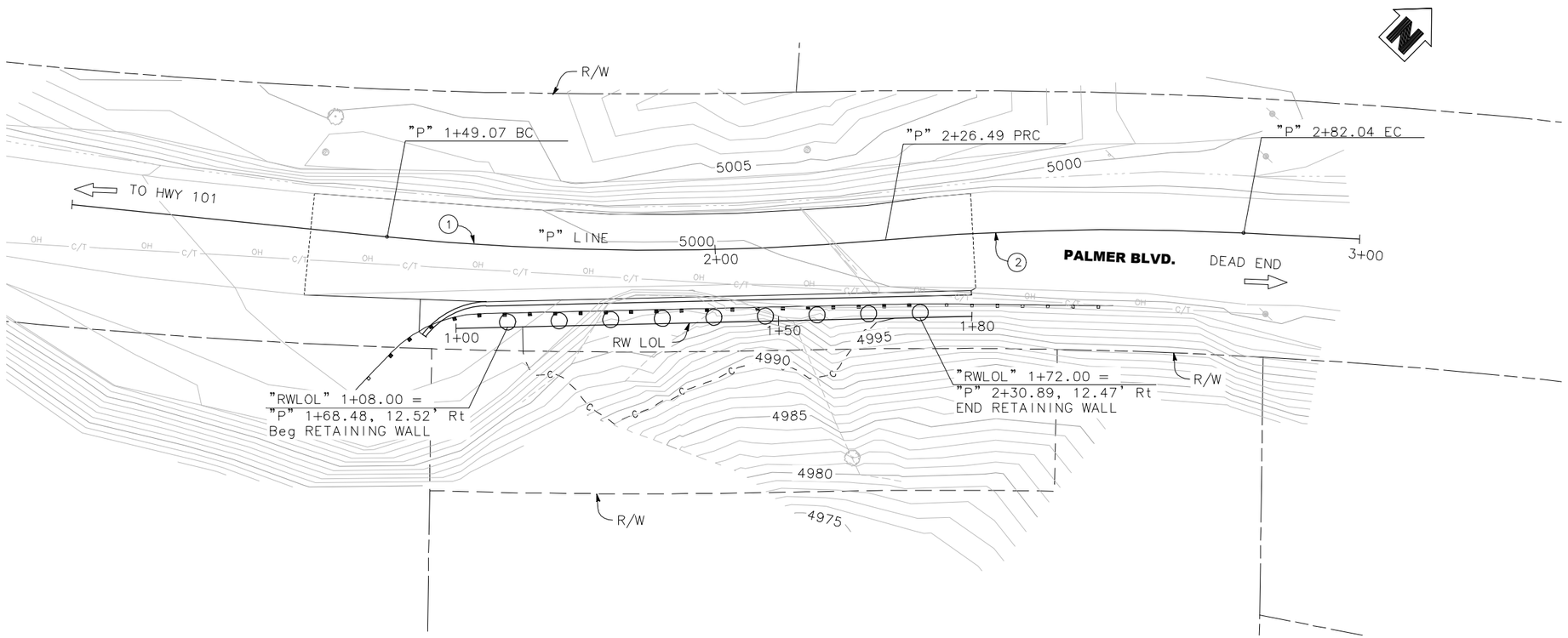
Indicates Structure Backfill, Soldier Pile Wall

Indicates Permeable Material Class 1

NOTES:
1. For limits of payments for roadway excavation, see "ROADWAY PLANS"

BAR IS ONE INCH ON ORIGINAL DRAWING	ROAD NAME: PALMER BOULEVARD		MARK THOMAS	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
	ROAD NO: 3H065	MILE POST: 0.33		
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	PROJECT NO.: FEMA-4434-DR-CA PW-208	EA NO.:	DESIGNED BY: JS	HUMBOLDT-ON CALL ENG/ENV SERVICES
	CONTRACT NO.: 219311	BRIDGE NO: N/A	DRAWN BY: ASM	
	DRAWING FILE NAME:		REVIEWED BY: JH	FOUNDATION PLAN
	PLOT DATE: 10/09/2025	REVISION DATE:	APPROVED BY: JH	

SHEET 10 OF 13

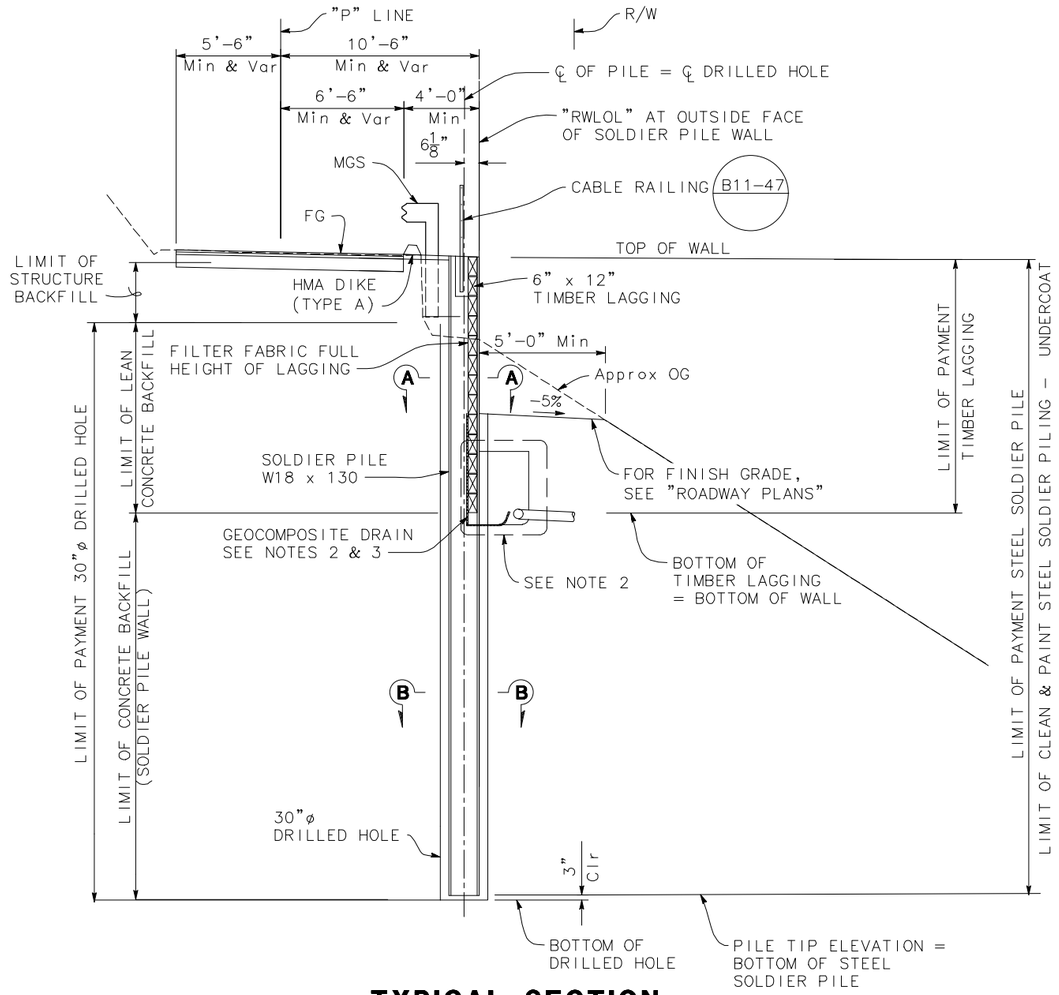


PLAN
1" = 10'

CURVE TABLE				
CURVE #	RADIUS	DELTA	TANGENT	LENGTH
(1)	405.50'	10°56'17"	38.82'	77.42'
(2)	394.50'	8°04'08"	27.82'	55.55'

LEGEND

◯ – 30 inch diameter drilled hole



TYPICAL SECTION

1/4" = 1'-0"

NOTES:

1. For "SECTION A-A" and "SECTION B-B", see "SOLDIER PILE WALL LAGGING DETAILS" sheet.
2. FOR "WALL DRAIN DETAIL", SEE "SOLDIER PILE WALL DETAILS NO. 1" SHEET.
3. CONTINUE GEOCOMPOSITE DRAIN UNDER TIMBER LAGGING INTO PERMEABLE MATERIAL

PILE DATA TABLE

PILE NUMBER	"RWLOL" LINE STATION	TOP OF WALL ELEVATION (ft)	BOTTOM OF LAGGING ELEVATION (ft)	PILE TIP ELEVATION (ft)
1	1+08.00	4999.41	4989.75	4965.0
2	1+16.00	4999.35	4985.75	4965.0
3	1+24.00	4999.29	4985.75	4965.0
4	1+32.00	4999.23	4985.75	4965.0
5	1+40.00	4999.17	4985.75	4965.0
6	1+48.00	4999.10	4985.75	4965.0
7	1+56.00	4999.04	4985.75	4965.0
8	1+64.00	4998.98	4985.75	4965.0
9	1+72.00	4998.92	4989.75	4965.0

REGISTERED PROFESSIONAL ENGINEER
JASON BRADFORD HICKEY
No. S5783
Exp. 6/30/26
STRUCTURAL
STATE OF CALIFORNIA

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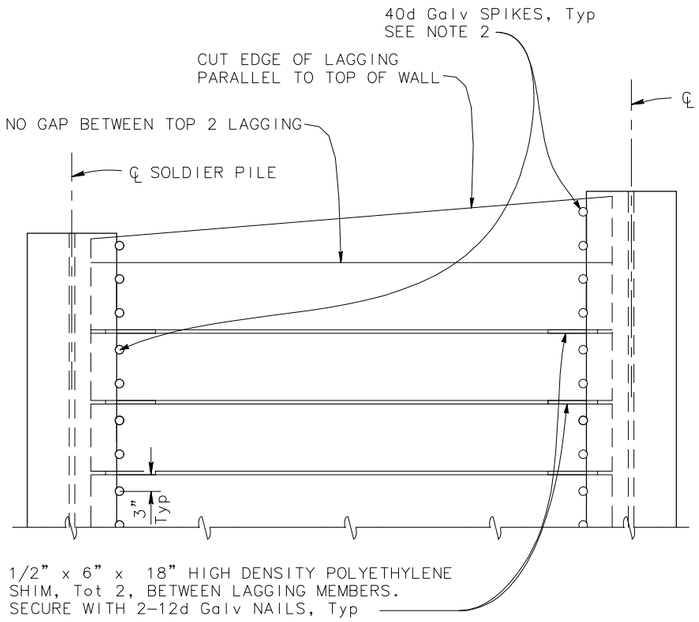
PROJECT NO.: FEMA-4434-DR-CA PW-208	EA NO.:	DESIGNED BY: JS	
CONTRACT NO.: 219311	BRIDGE NO: N/A	DRAWN BY: ASM	TYPICAL SECTION
DRAWING FILE NAME:		REVIEWED BY: JH	
PLOT DATE: 10/09/2025	REVISION DATE:	APPROVED BY: JH	

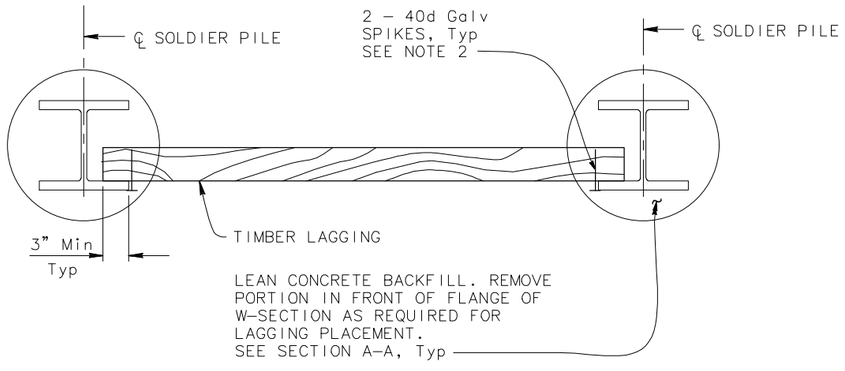
SHEET 11 OF 13



PART ELEVATION

LAGGING DETAILS

NO SCALE

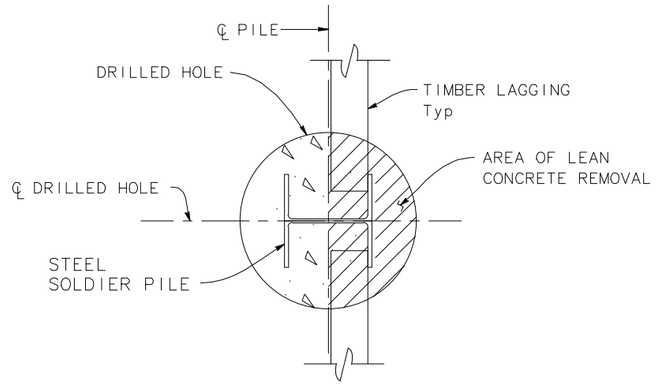


PART PLAN OF TIMBER LAGGING MEMBER

NO SCALE

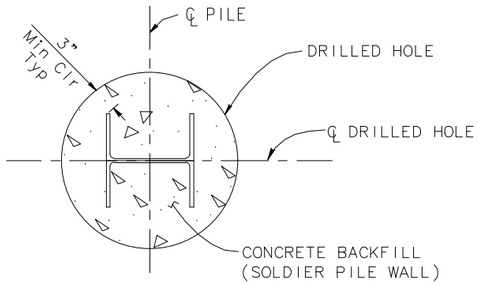
NOTES:

1. No clipping of timber lagging corners allowed. Lagging corners may be chamfered to facilitate placement. Max 2 corner per lagging
2. Spikes shall not be bent



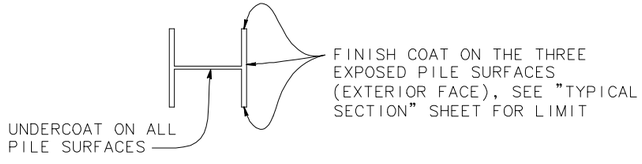
SECTION A-A

NO SCALE



SECTION B-B

NO SCALE

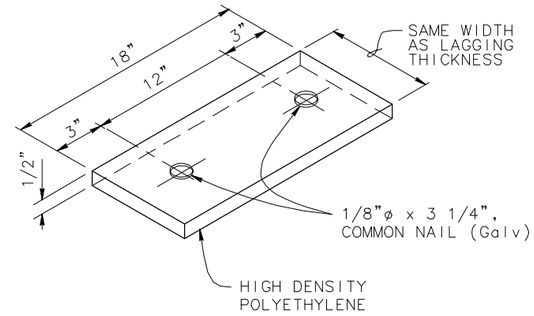


LIMITS OF CLEAN & PAINT STEEL SOLDIER PILES

NO SCALE

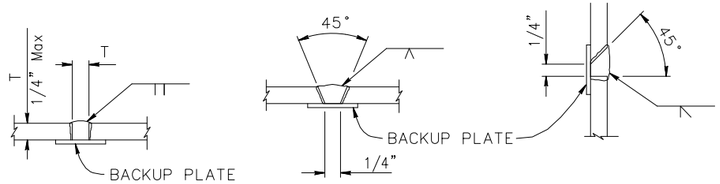
NOTES:

1. FINISH COAT TO BE FEDERAL STANDARD 595 30097 PAINT



SHIM DETAIL

NO SCALE



SQUARE GROOVE | SINGLE VEE-GROOVE | SINGLE BEVEL-GROOVE

PILE WELDING DETAIL-BUTT JOINTS

NO SCALE

NOTES:

1. Single vee-groove and square groove permitted for all positions.
2. Single bevel-groove permitted for horizonal joints only.

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DRAWING FILE NAME:		REVIEWED BY: JH	
PLOT DATE: 10/09/2025	REVISION DATE:	APPROVED BY: JH	

SHEET 12 OF 13

BAR IS ONE INCH ON ORIGINAL DRAWING	ROAD NAME: PALMER BOULEVARD		MARK THOMAS	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
	ROAD NO: 3H065	MILE POST: 0.33		HUMBOLDT-ON CALL ENG/ENV SERVICES
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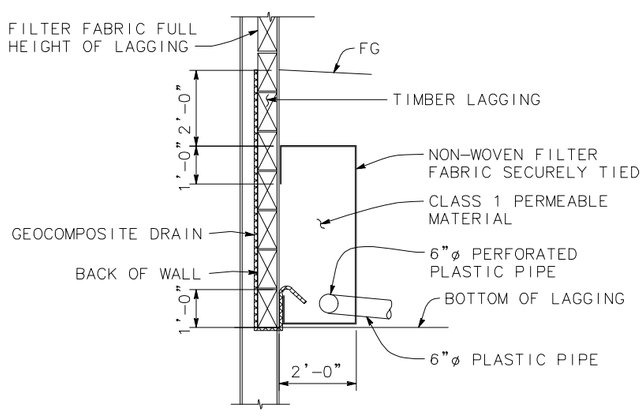
	CONTRACT NO.: 219311	BRIDGE NO: N/A	DRAWN BY: ASM	SOLDIER PILE WALL DETAILS NO. 1
	DRAWING FILE NAME:		REVIEWED BY: JH	
	PLOT DATE: 10/09/2025	REVISION DATE:	APPROVED BY: JH	

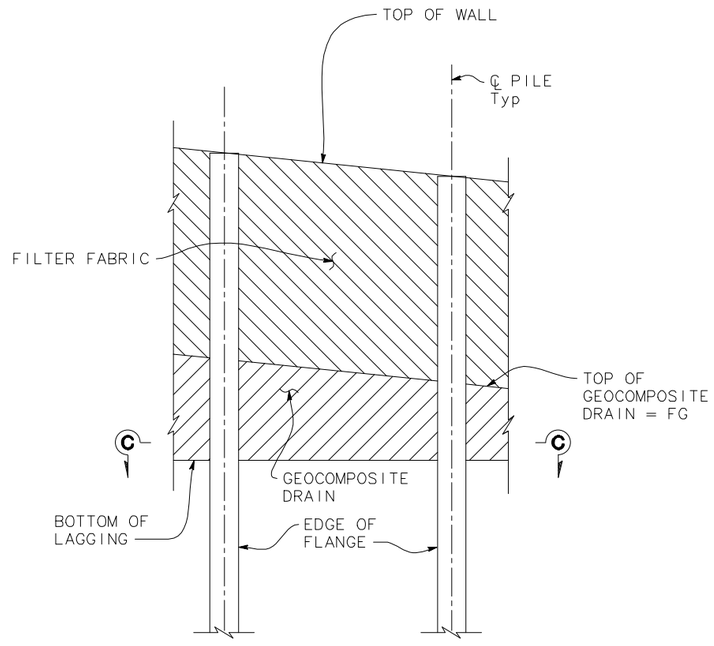
NOTES:

1. Geocomposite drain strip per Section 96 Geosynthetics of the Standard Specifications
2. Place plastic pipe 6" minimum from bottom of lagging.



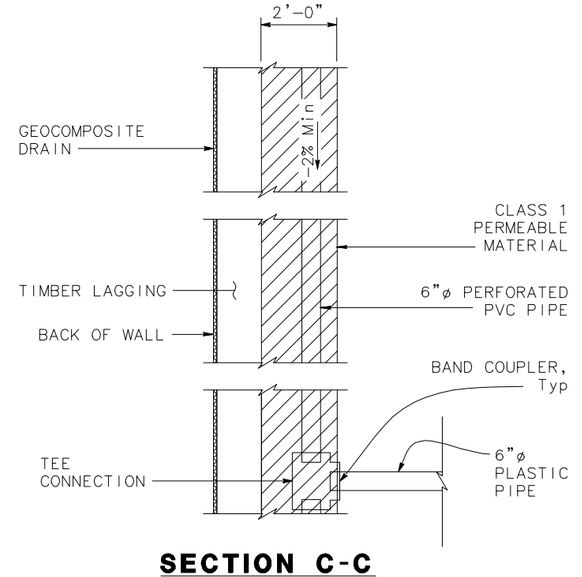
WALL DRAIN DETAIL

NO SCALE



PART ELEVATION DRAIN AT SOLDIER PILE WALL

NO SCALE



SECTION C-C

NO SCALE