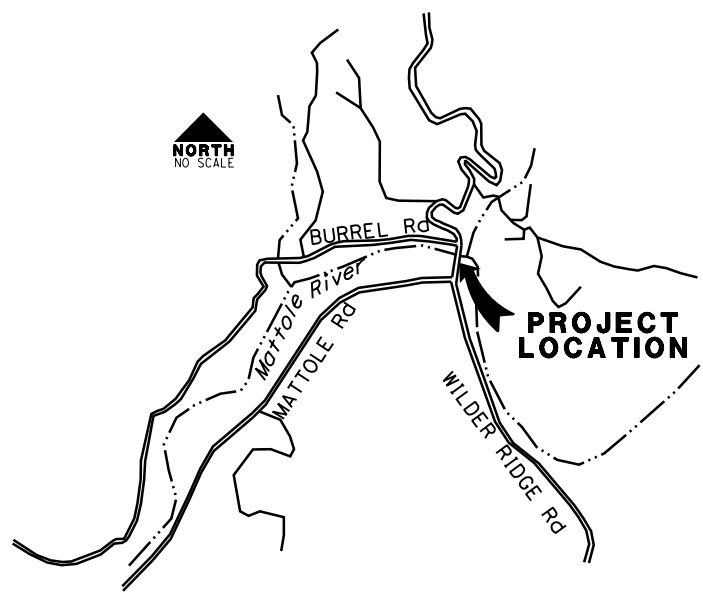




ROAD NAME: MATTOLE ROAD	DESIGNED BY: KP
ROAD NO.: F3D010	MILE POST:
FED PROJECT NO.: BRLS-5904(024)	EA NO.: 01-279414L
CONTRACT NO.: 594055	PPNO.:
DRAWING FILE NAME:	REVIEWED BY: MS
PLOT DATE: 12-08-2023	REVISION DATE:
	APPROVED BY:

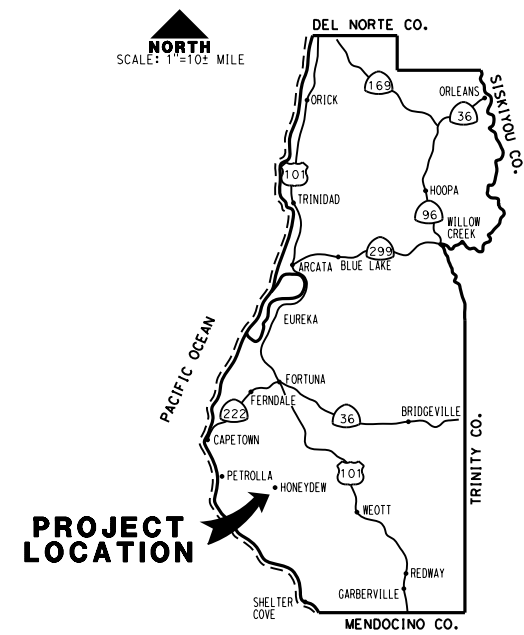
COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 1 OF 74
MATTOLE ROAD AT MATTOLE RIVER BRIDGE REPLACEMENT PROJECT (AT HONEYDEW)	
COVER SHEET, SHEET INDEX AND DETAILS	



VICINITY MAP
NOT TO SCALE

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS

PROJECT PLANS FOR CONSTRUCTION OF MATTOLE ROAD (F3D010) CONTRACT NO. 594055 OVER MATTOLE RIVER BRIDGE No. 04C0263 FEDERAL PROJECT NO. BRLS-5904(024)



LOCATION MAP
SCALE: 1"=10± MILE

APPLICABLE STANDARD PLANS

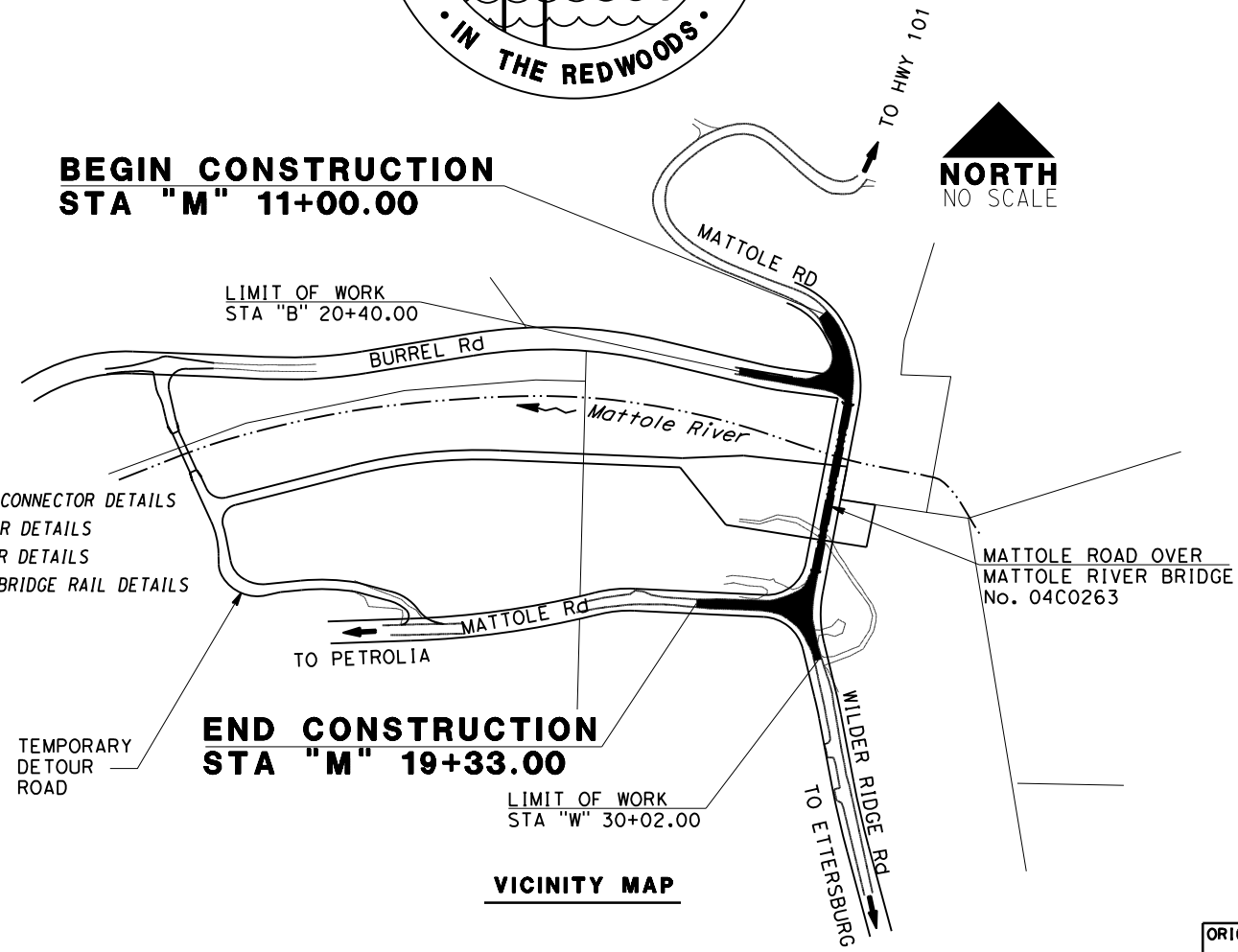
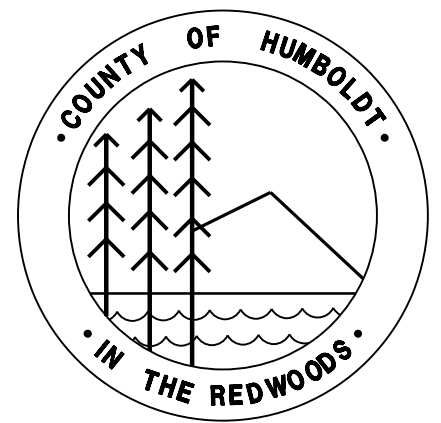
CALTRANS STANDARD PLANS DATED 2023
(SEE SPECIAL PROVISIONS STANDARD PLAN LIST)

NOTES

THE CONTRACTOR SHALL HAVE A CLASS "A" LICENSE FOR THIS PROJECT.

INDEX OF SHEETS

ROADWAY PLANS	STRUCTURE PLANS
1 COVER SHEET	43 GENERAL PLAN
2-3 TYPICAL CROSS SECTIONS	44 INDEX TO PLANS
4 LAYOUT	45 DECK CONTOURS
5 "M" LINE PROFILE	46 FOUNDATION PLAN
6 "B" LINE AND "W" LINE PROFILE	47 ABUTMENT 1 LAYOUT
7-9 CONSTRUCTION DETAILS	48 ABUTMENT 3 LAYOUT
10-15 WATER POLLUTION CONTROL PLAN	49-50 ABUTMENT DETAILS
16 WATER POLLUTION CONTROL DETAILS	51-52 RETAINING WALL DETAILS
17 CONTOUR GRADING	53 PIER LAYOUT
18 TREE REMOVAL PLAN AND LOG/ROOT	54 PIER DETAILS
WAD STRUCTURE PLAN	55 TYPICAL SECTIONS
19 DRAINAGE PLAN	56 GIRDER LAYOUT
20 DRAINAGE DETAILS	57-58 GIRDER DETAILS
21-22 UTILITY PLAN	59-61 CROSS FRAME DETAILS
23-24 CONSTRUCTION AREA SIGNS	62-63 BEARING DETAILS
25 DETOUR TYPICAL CROSS SECTIONS	64 STEEL GIRDER SHOP SPLICE & STUD CONNECTOR DETAILS
26-27 DETOUR LAYOUT	65 STEEL GIRDER TRANSVERSE STIFFENER DETAILS
28 DETOUR PROFILE	66 STEEL GIRDER CONNECTION STIFFENER DETAILS
29 CONSTRUCTION ACCESS ROAD PROFILE	67-71 CALIFORNIA ST-70SM SIDE MOUNTED BRIDGE RAIL DETAILS
30 DETOUR DETAILS	72-74 LOG OF TEST BORINGS
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32 PAVEMENT DELINEATION PLAN	
33 SIGN PLAN	
34 SIGN QUANTITIES	
35-36 SUMMARY OF QUANTITIES	
37-38 PERMANENT EROSION CONTROL PLAN	
39 EROSION CONTROL DETAILS	
40 PLANTING LEGEND	
41-42 PLANTING PLAN	



VICINITY MAP

BASIS OF BEARINGS

CC83 EPOCH 2002.00 BASED ON CONTROL BY COUNTY (CP1, CP2, AND CP6)
CONVERGENCE ANGLE 01°25'18"
COMBINATION FACTOR 0.99993597

BASIS OF ELEVATION

NAVD88 BASED ON SAME COUNTY SURVEY CP #1
C 1495 NGS 1992 BENCH MARK NAVD88
ELEVATION 344.67

RECOMMENDED

Jason P. Jurens 12/08/2023
DATE



APPROVED

Tony R. Seghetti 12/08/2023
HUMBOLDT COUNTY DATE



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

USERNAME => kevfn.BelBaeP PLOTTED => 12/11/2023 11:23:27 AM

DATE PLOTTED => 12/11/2023 11:23:27 AM

NOTES:

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



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

ROAD NAME: MATTOLE ROAD	MILE POST:
ROAD NO.: F30010	EA NO.: 01-279414L
FED PROJECT NO.: BRLS-5904(024)	PPNO.:
CONTRACT NO.: 594055	DRAWING FILE NAME:
PLOT DATE: 12-08-2023	REVISION DATE:

DESIGNED BY: KP
DRAWN BY: KB
REVIEWED BY: MS
APPROVED BY:

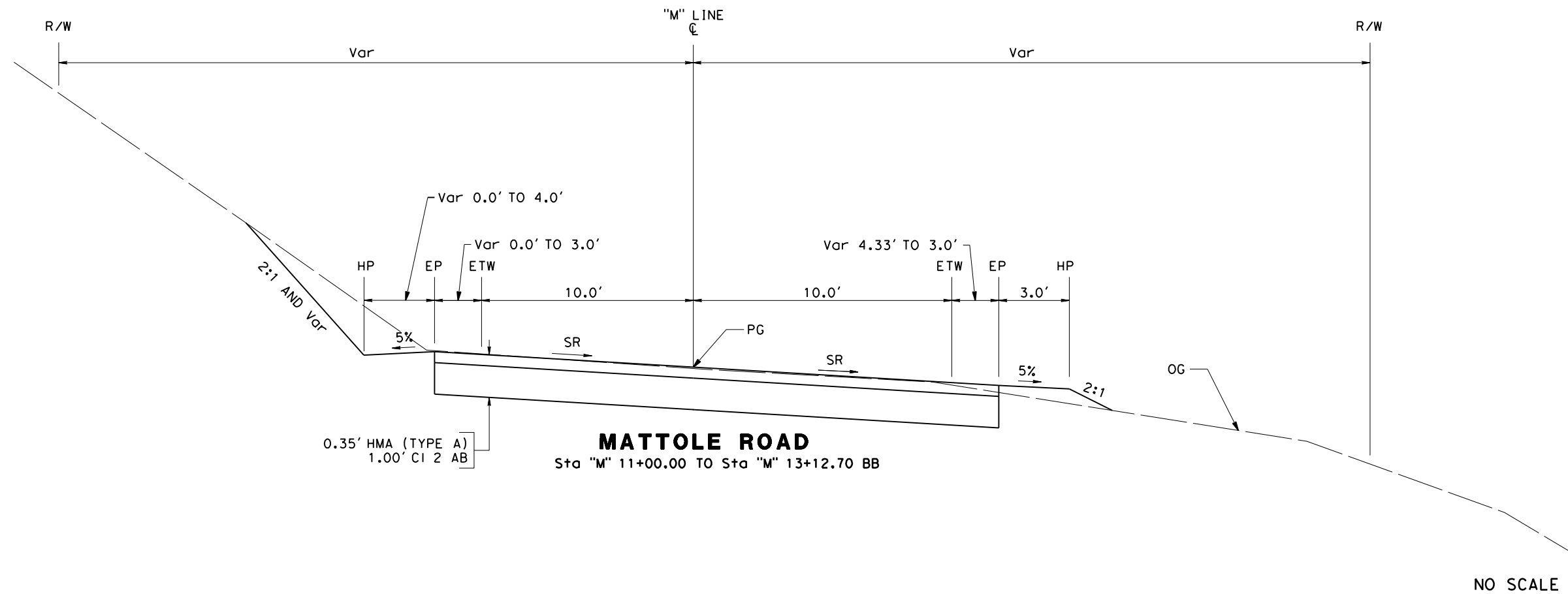
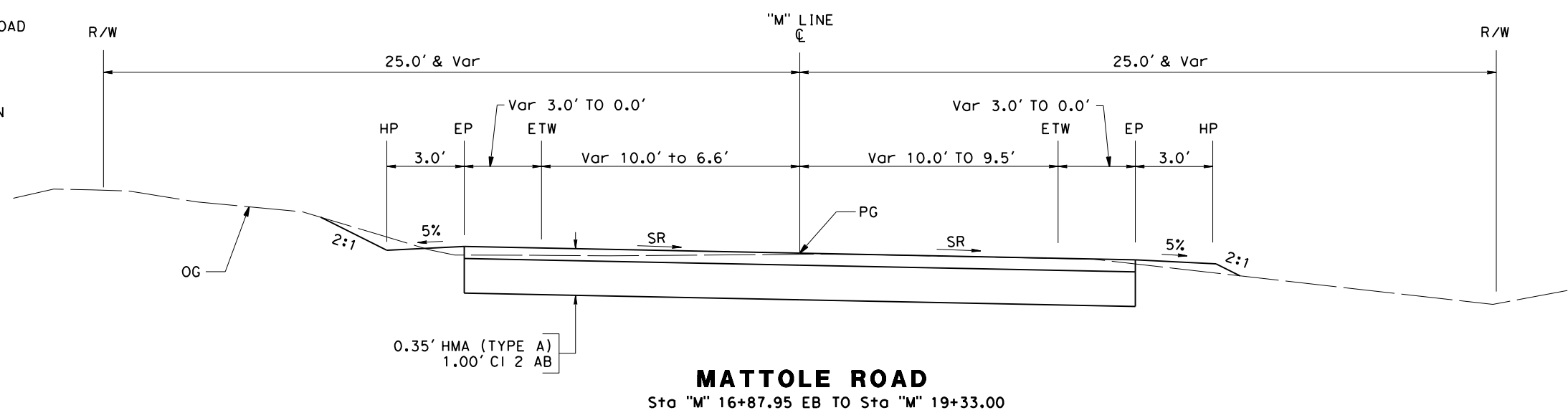
COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
MATTOLE ROAD AT MATTOLE RIVER BRIDGE REPLACEMENT PROJECT (AT HONEYDEW)
TYPICAL CROSS SECTIONS

SHEET **2**
OF
74

DESIGN DESIGNATION (MATTOLE ROAD)

2022 ADT = 390
2042 ADT = 579
V = 30 MPH
MAJOR COLLECTOR ROAD
TI = 7.5

ABBREVIATIONS:
SR SUPERELEVATION



NO SCALE

X-1

NOTES:

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



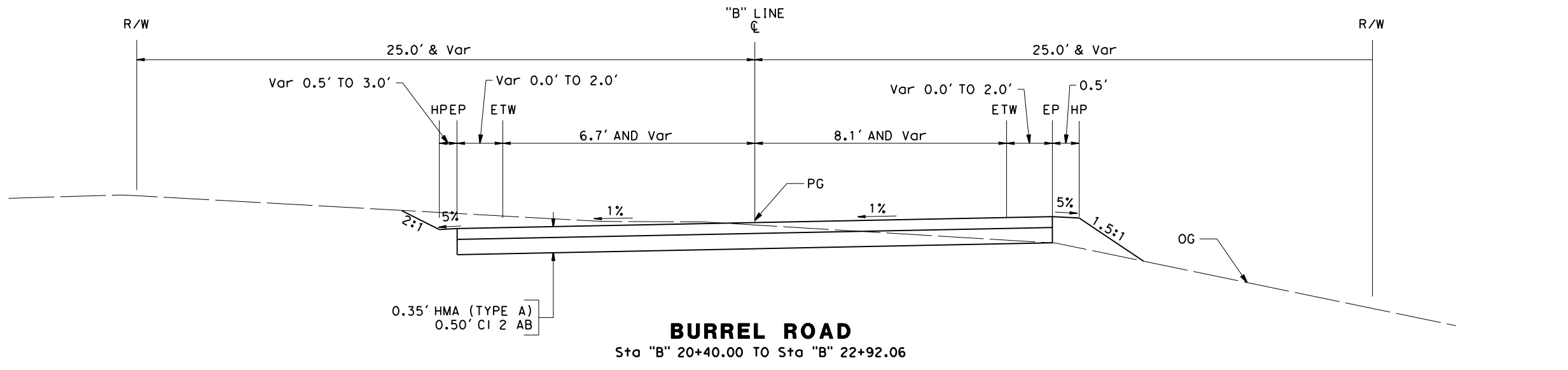
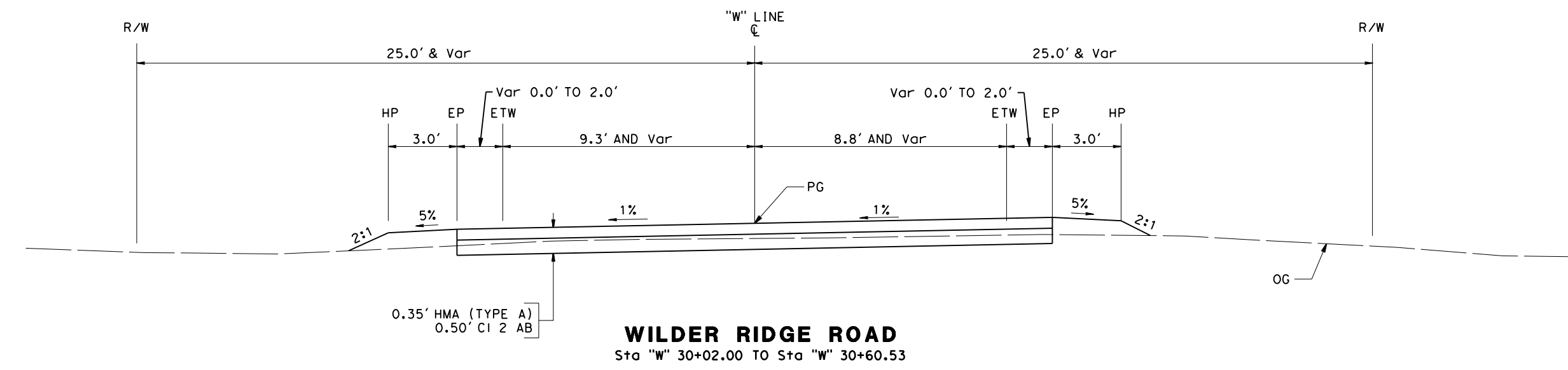
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

ROAD NAME: MATTOLE ROAD	MILE POST:
ROAD NO.: F30010	EA NO.: 01-279414L
FED PROJECT NO.: BRLS-5904(024)	PPNO.:
CONTRACT NO.: 594055	DRAWING FILE NAME:
PLOT DATE: 12-08-2023	REVISION DATE:

DESIGNED BY: KP
DRAWN BY: KB
REVIEWED BY: MS
APPROVED BY:

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
MATTOLE ROAD AT MATTOLE RIVER BRIDGE REPLACEMENT PROJECT (AT HONEYDEW)
TYPICAL CROSS SECTIONS

SHEET **3**
OF
74



NO SCALE

X-2

NOTES:

- FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT THE COUNTY OFFICE.
- IMPLIED COMMON LAW DEDICATION IN ACCORDANCE WITH RECORD DATA. (BOOK 16 MAPS PAGE 127) AND (BOOK 23 OF PARCEL MAPS PAGE 112)
- FOR UTILITY INFORMATION, SEE UTILITY SHEETS.

LEGEND:

- DIRECTION OF TRAFFIC
- CURVE DATA NUMBER
- DIRECTION OF DITCH FLOW
- SURVEY CONTROL POINT

No.	R	Δ	T	L
1	222.00'	65° 27' 28"	142.68'	253.62'
2	150.00'	30° 13' 28"	40.51'	79.13'
3	500.00'	04° 04' 16"	35.53'	35.53'
4	100.00'	81° 42' 50"	86.49'	142.62'
5	300.00'	13° 25' 27"	70.29'	70.29'



ROAD NAME: MATTOLE ROAD	MILE POST:
ROAD NO.: F30010	EA NO.: 01-279414L
FED PROJECT NO.: BRLS-5904(024)	CONTRACT NO.: 594055
PPNO.:	DRAWING FILE NAME:
PLOT DATE: 12-08-2023	REVISION DATE:

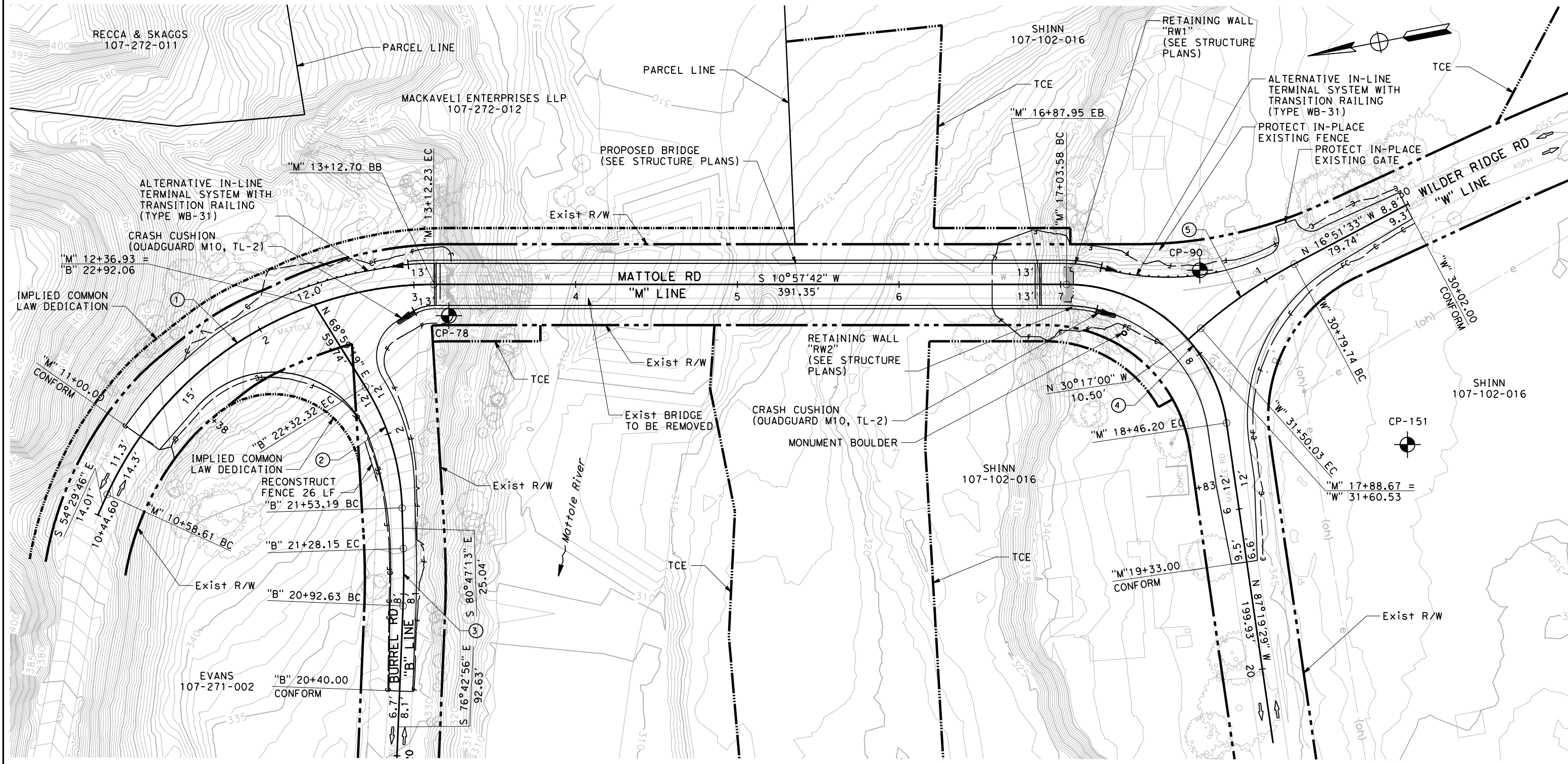
DESIGNED BY: KP	DRAWN BY: KB	REVIEWED BY: MS	APPROVED BY:
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COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
MATTOLE ROAD AT MATTOLE RIVER BRIDGE REPLACEMENT PROJECT (AT HONEYDEW)
LAYOUT

SHEET **4**
OF
74

SURVEY CONTROL DATA

No.	NORTHING	EASTING	ELEV	LINE	STATION	OFFSET	DESCRIPTION
90	1979090.89	5969079.42	346.03	"W"	31+28.83	28.27' R+	SPIKE
151	1978985.34	5968949.22	348.26	"M"	18+75.58	108.75' L+	SPIKE
78	1979552.17	5969140.15	343.99	"M"	13+21.59	19.32' R+	SPIKE



SCALE: 1"=30'

L-1

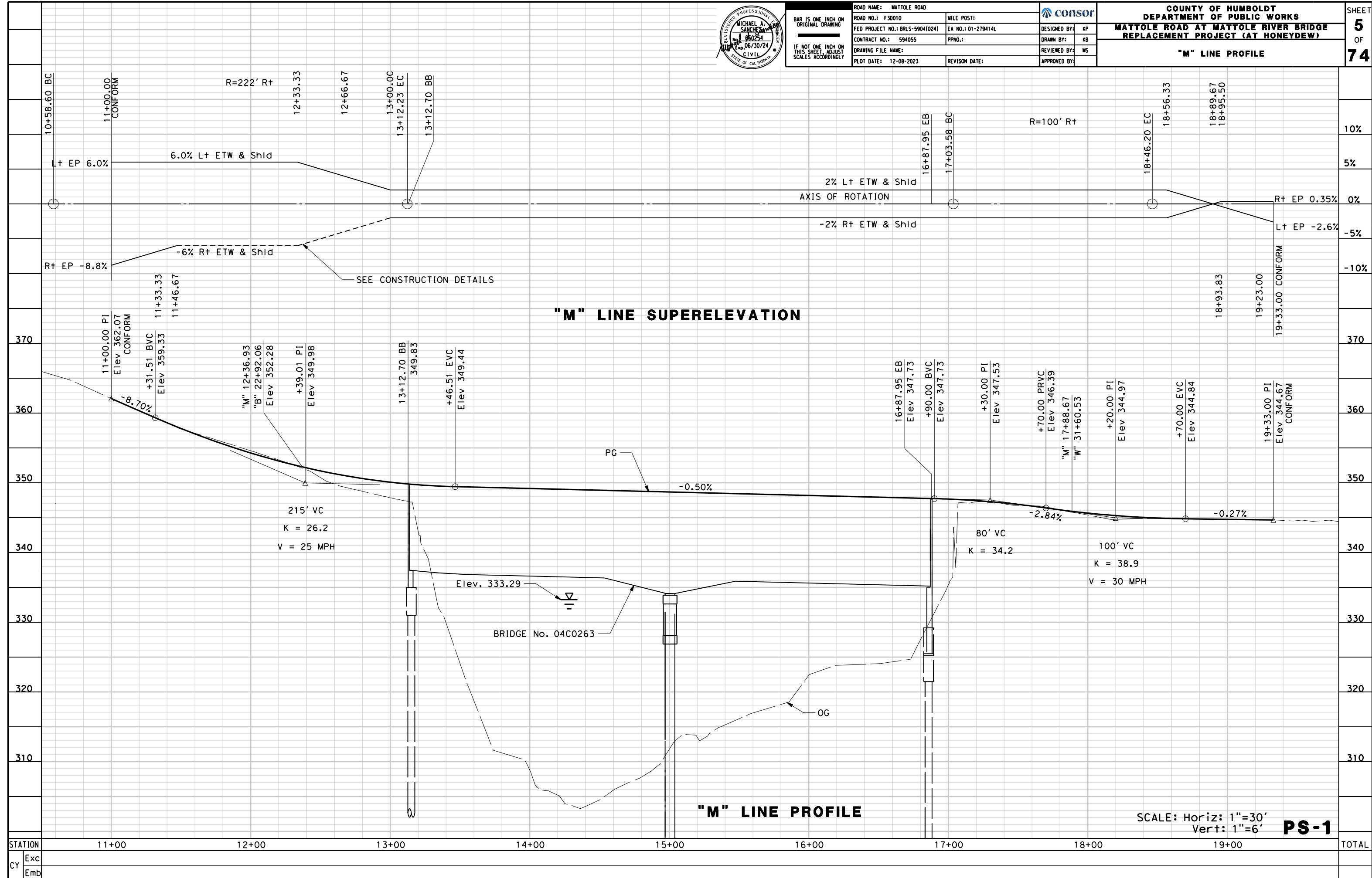


BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

ROAD NAME: MATTOLE ROAD	MILE POST:
ROAD NO.: F30010	EA NO.: 01-279414L
FED PROJECT NO.: BRLS-5904(024)	PPNO.:
CONTRACT NO.: 594055	DRAWING FILE NAME:
PLOT DATE: 12-08-2023	REVISION DATE:

DESIGNED BY: KP
DRAWN BY: KB
REVIEWED BY: MS
APPROVED BY:

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 5 OF 74
MATTOLE ROAD AT MATTOLE RIVER BRIDGE REPLACEMENT PROJECT (AT HONEYDEW)	
"M" LINE PROFILE	

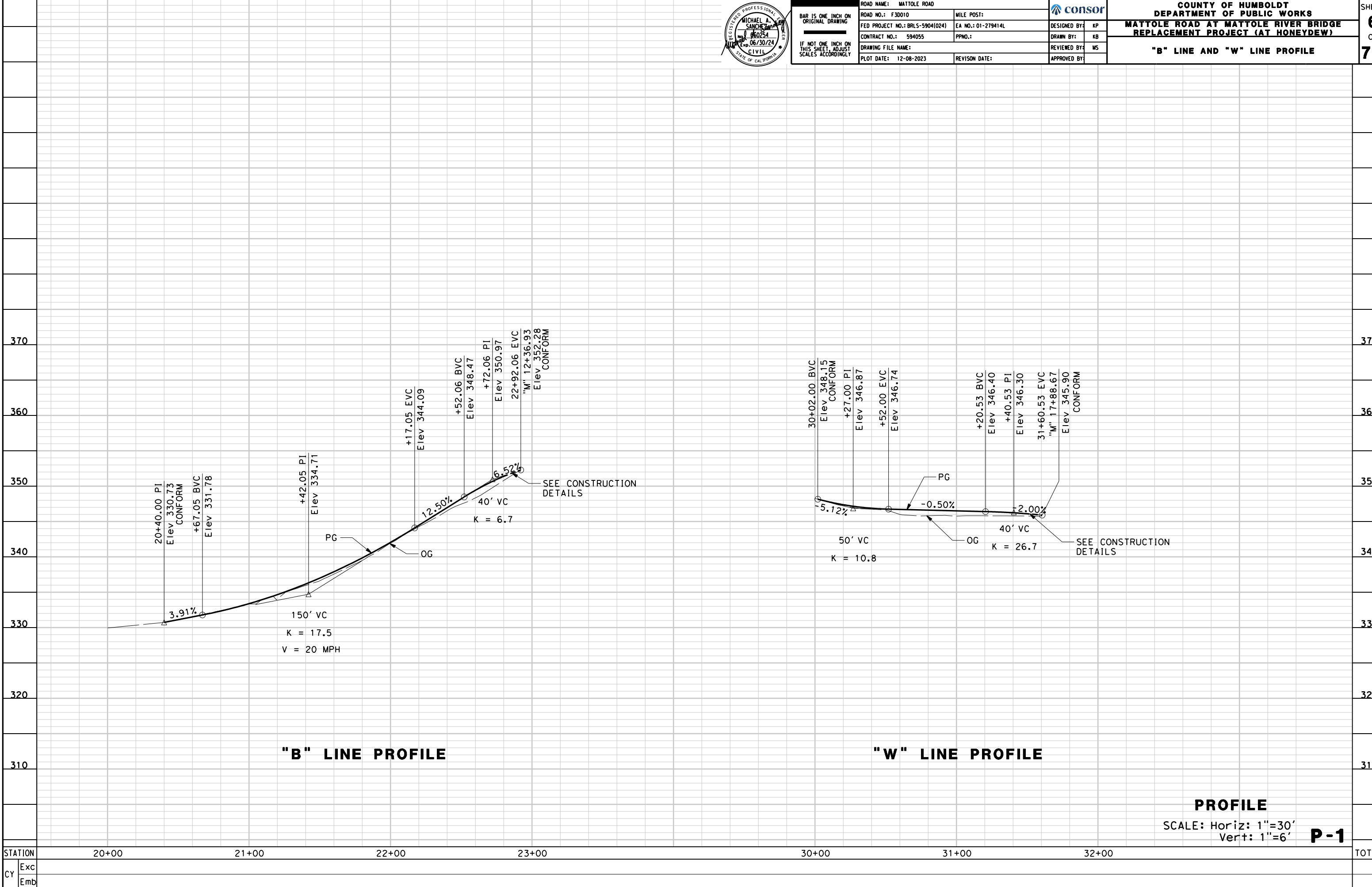




BAR IS ONE INCH ON ORIGINAL DRAWING
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

ROAD NAME: MATTOLE ROAD	MILE POST:
ROAD NO.: F30010	EA NO.: 01-279414L
FED PROJECT NO.: BRLS-5904(024)	PPNO.:
CONTRACT NO.: 594055	DRAWING FILE NAME:
PLOT DATE: 12-08-2023	REVISION DATE:

DESIGNED BY: KP
DRAWN BY: KB
REVIEWED BY: MS
APPROVED BY:



STATION	20+00	21+00	22+00	23+00	30+00	31+00	32+00	TOTAL
Exc								
Emb								

PROFILE
 SCALE: Horiz: 1"=30'
 Vert: 1"=6' **P-1**

NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT THE COUNTY OFFICE.



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

ROAD NAME: MATTOLE ROAD	MILE POST:
ROAD NO.: F30010	EA NO.: 01-279414L
FED PROJECT NO.: BRLS-5904(024)	PPNO.:
CONTRACT NO.: 594055	DRAWING FILE NAME:
PLOT DATE: 12-08-2023	REVISION DATE:

DESIGNED BY: KP	DRAWN BY: KB	REVIEWED BY: MS	APPROVED BY:
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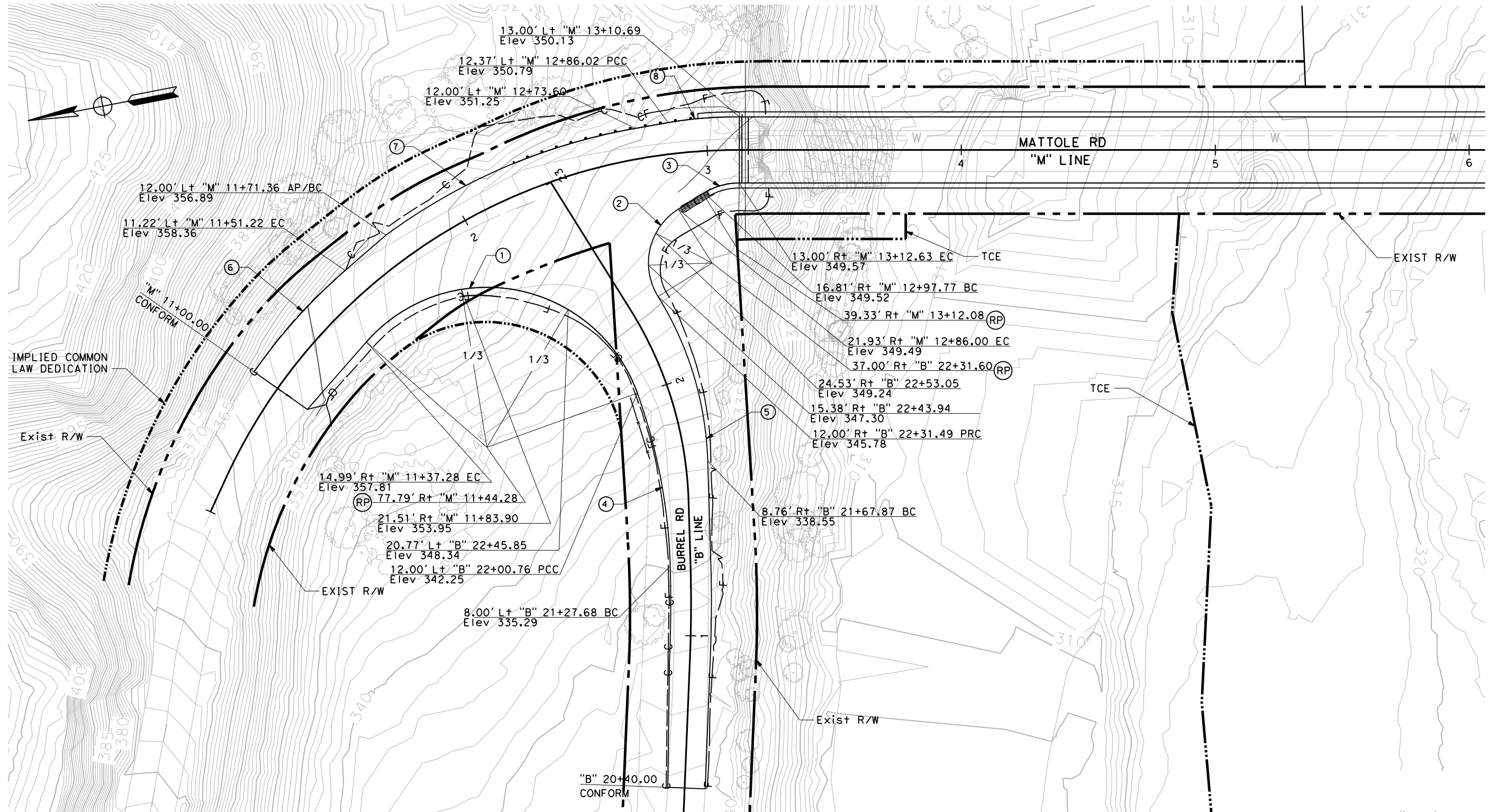
COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 7 OF 74
MATTOLE ROAD AT MATTOLE RIVER BRIDGE REPLACEMENT PROJECT (AT HONEYDEW)	
CONSTRUCTION DETAILS	

LEGEND:

(XX) CURVE DATA NUMBER

CURVE DATA

No. ○	R	Δ	T	L	RP NORTHING	RP EASTING
1	63.00'	118° 57' 38"	106.87'	130.80'	1979677.13	5969064.74
2	25.00'	89° 53' 36"	24.95'	39.22'	1979576.30	5969119.15
3	26.00'	31° 59' 24"	7.45'	14.52'	1979564.70	5969122.31
4	220.00'	18° 08' 57"	35.14'	69.69'	1979832.25	5969040.50
5	130.00'	30° 08' 06"	35.00'	68.37'	1979721.09	5969063.80
6	220.00'	14° 09' 07"	27.31'	54.34'	1979608.29	5968953.36
7	234.00'	26° 23' 17"	54.86'	107.77'	1979599.90	5968942.95
8	150.00'	9° 58' 11"	13.08'	26.10'	1979585.34	5969026.71



SCALE: 1"=20'

C-1

NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT THE COUNTY OFFICE.



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

ROAD NAME: MATTOLE ROAD	MILE POST:
ROAD NO.: F30010	EA NO.: 01-279414L
FED PROJECT NO.: BRLS-5904(024)	CONTRACT NO.: 594055
PPNO.:	DRAWING FILE NAME:
PLOT DATE: 12-08-2023	REVISION DATE:

DESIGNED BY: KP	DRAWN BY: KB
REVIEWED BY: MS	APPROVED BY:

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
MATTOLE ROAD AT MATTOLE RIVER BRIDGE REPLACEMENT PROJECT (AT HONEYDEW)
CONSTRUCTION DETAILS

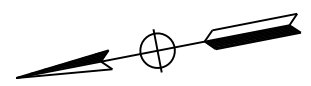
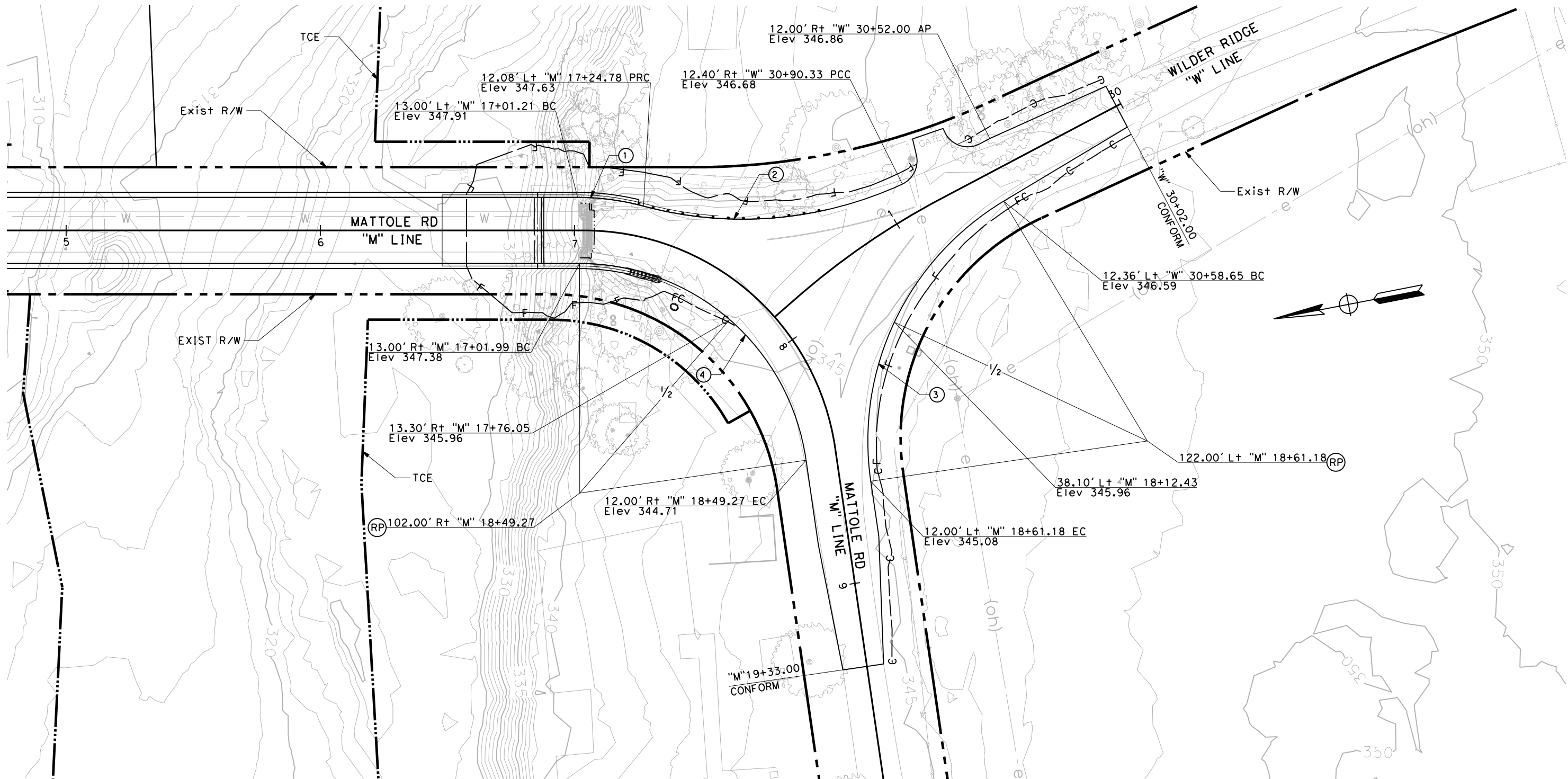
SHEET 8 OF 74

LEGEND:

⊙ CURVE DATA NUMBER

CURVE DATA

No. ⊙	R	Δ	T	L	RP NORTHING	RP EASTING
1	100.00'	15° 02' 31"	13.46'	26.25'	1979192.34	5969001.52
2	150.00'	43° 09' 05"	59.32'	112.97'	1979082.74	5969226.22
3	110.00'	67° 20' 24"	73.28'	129.28'	1978971.43	5968962.98
4	90.00'	81° 42' 49"	77.84'	128.36'	1979194.67	5968985.37



SCALE: 1"=20'

C-2

NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT THE COUNTY OFFICE.



BAR IS ONE INCH ON ORIGINAL DRAWING

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

ROAD NAME: MATTOLE ROAD	MILE POST:
ROAD NO.: F30010	EA NO.: 01-279414L
FED PROJECT NO.: BRLS-5904(024)	PPNO.:
CONTRACT NO.: 594055	DRAWING FILE NAME:
PLOT DATE: 12-08-2023	REVISION DATE:

	DESIGNED BY: KP
	DRAWN BY: KB
	REVIEWED BY: MS
	APPROVED BY:

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
MATTOLE ROAD AT MATTOLE RIVER BRIDGE REPLACEMENT PROJECT (AT HONEYDEW)
CONSTRUCTION DETAILS

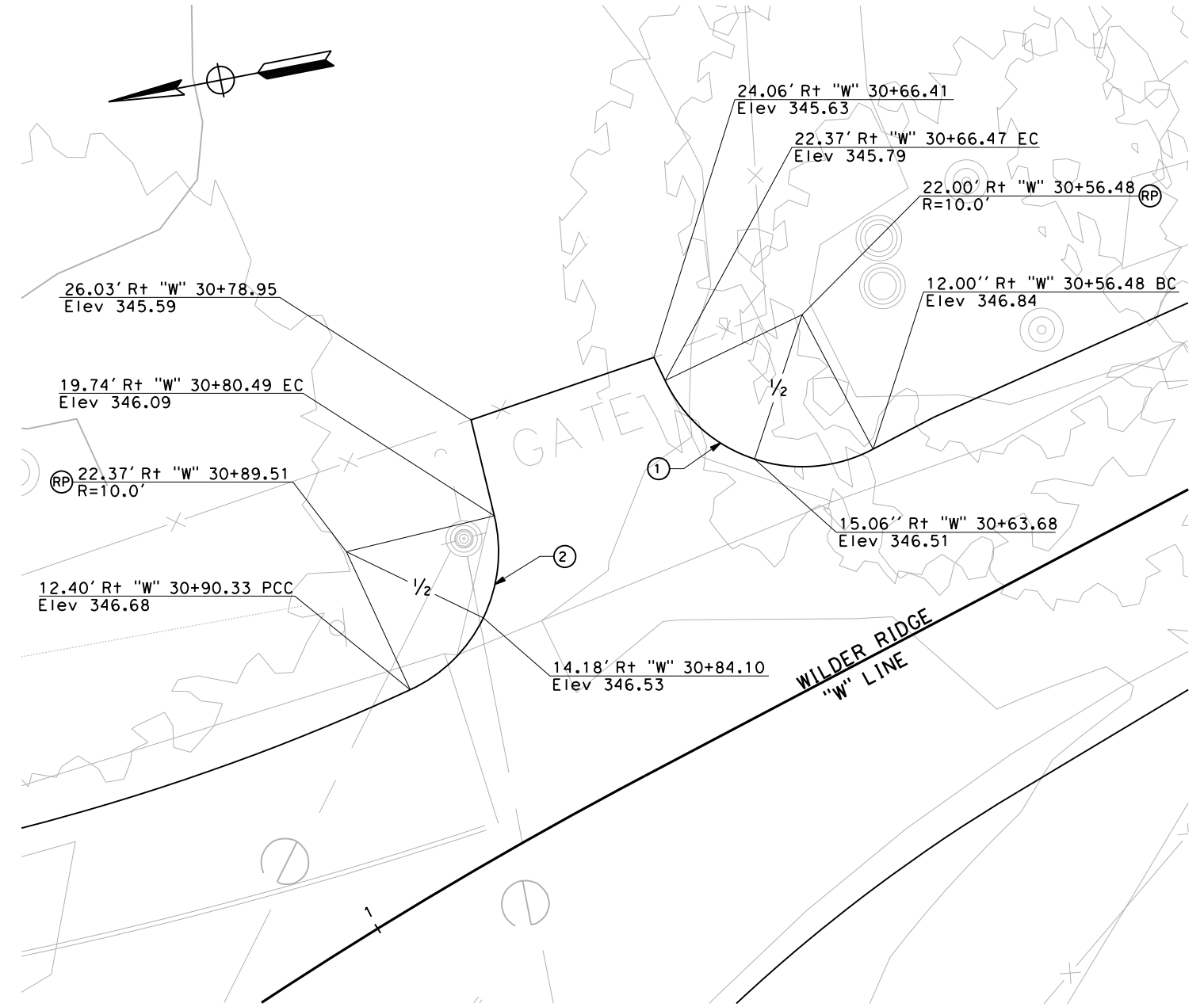
SHEET **9**
OF
74

LEGEND:

⊗ CURVE DATA NUMBER

CURVE DATA

No. ○	R	Δ	T	L
1	10.00'	92° 07' 40"	10.49'	16.19'
2	10.00'	78° 50' 13"	8.17'	13.70'



DRIVEWAY DETAIL
SCALE: 1"=5'

SCALE: AS SHOWN

C-3

NOTES:

1. THIS PLAN ACCURATE FOR TEMPORARY EROSION CONTROL WORK ONLY.
2. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT THE COUNTY OFFICE.
3. LOCATION OF FIBER ROLLS ARE SCHEMATIC. ACTUAL PLACEMENT LOCATIONS OF FIBER ROLLS SHALL BE IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
4. EROSION CONTROL (HYDROSEED) SHALL NOT BE PLACED WITHIN ACTIVE RIVER.
5. FOR PLANTING ZONE SEED MIX, SEE DRAINAGE DETAILS.
6. PAINTED LATHS SHALL BE SPACED NO GREATER THAN 8 FT ON CENTER

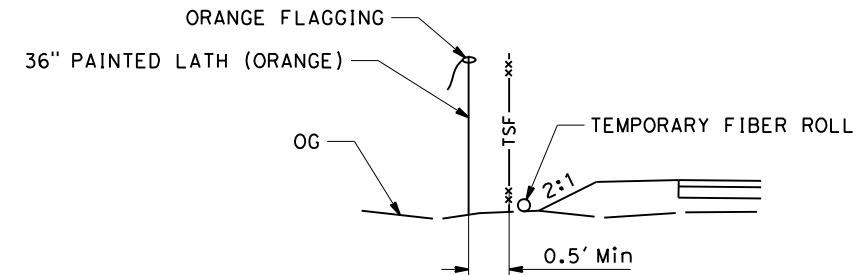


ROAD NAME: MATTOLE ROAD	DESIGNED BY: KP
ROAD NO.: F30010	MILE POST:
FED PROJECT NO.: BRLS-5904(024)	EA NO.: 01-279414L
CONTRACT NO.: 594055	PPNO.:
DRAWING FILE NAME:	REVIEWED BY: MS
PLOT DATE: 12-08-2023	APPROVED BY:
REVISION DATE:	

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 10
MATTOLE ROAD AT MATTOLE RIVER BRIDGE REPLACEMENT PROJECT (AT HONEYDEW)	OF
WATER POLLUTION CONTROL PLAN SEASON 1 DURING CONSTRUCTION	74

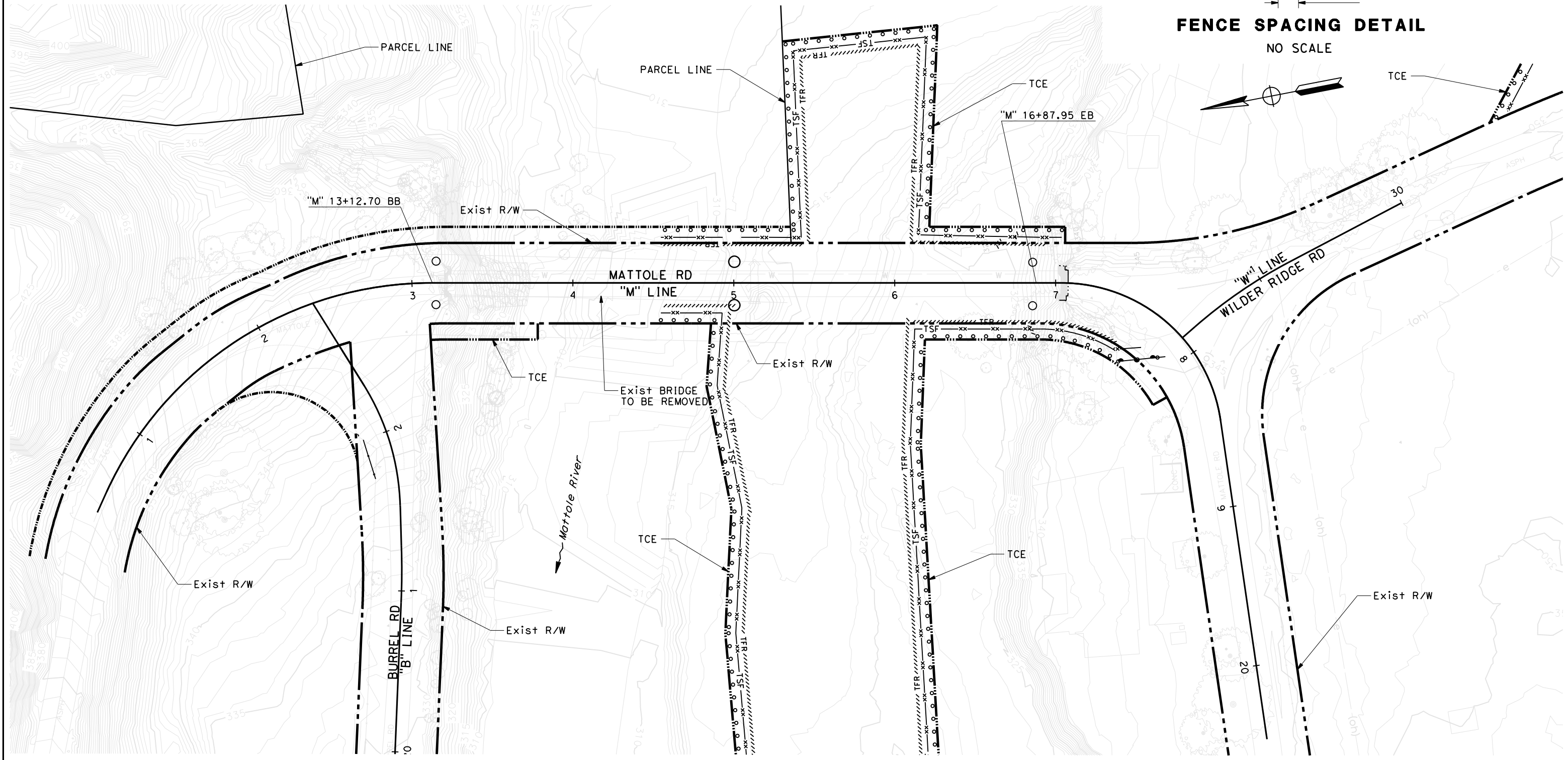
LEGEND:

- TEMPORARY EROSION CONTROL (TYPE 1)
- TEMPORARY FIBER ROLL
- TEMPORARY SILT FENCE
- 36" PAINTED LATH (ORANGE) (AT 8 FT SPACING)
- TEMPORARY EROSION CONTROL (TYPE 2)



FENCE SPACING DETAIL

NO SCALE


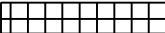




SCALE: 1"=30' **WPC-1**

NOTES:

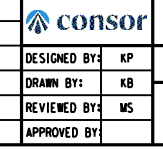
1. THIS PLAN ACCURATE FOR TEMPORARY DETOUR ROADWAY LAYOUT ONLY.
2. FOR UTILITY INFORMATION, SEE UTILITY SHEETS.
3. PAINTED LATHS SHALL BE SPACED NO GREATER THAN 8 FT ON CENTER

LEGEND:

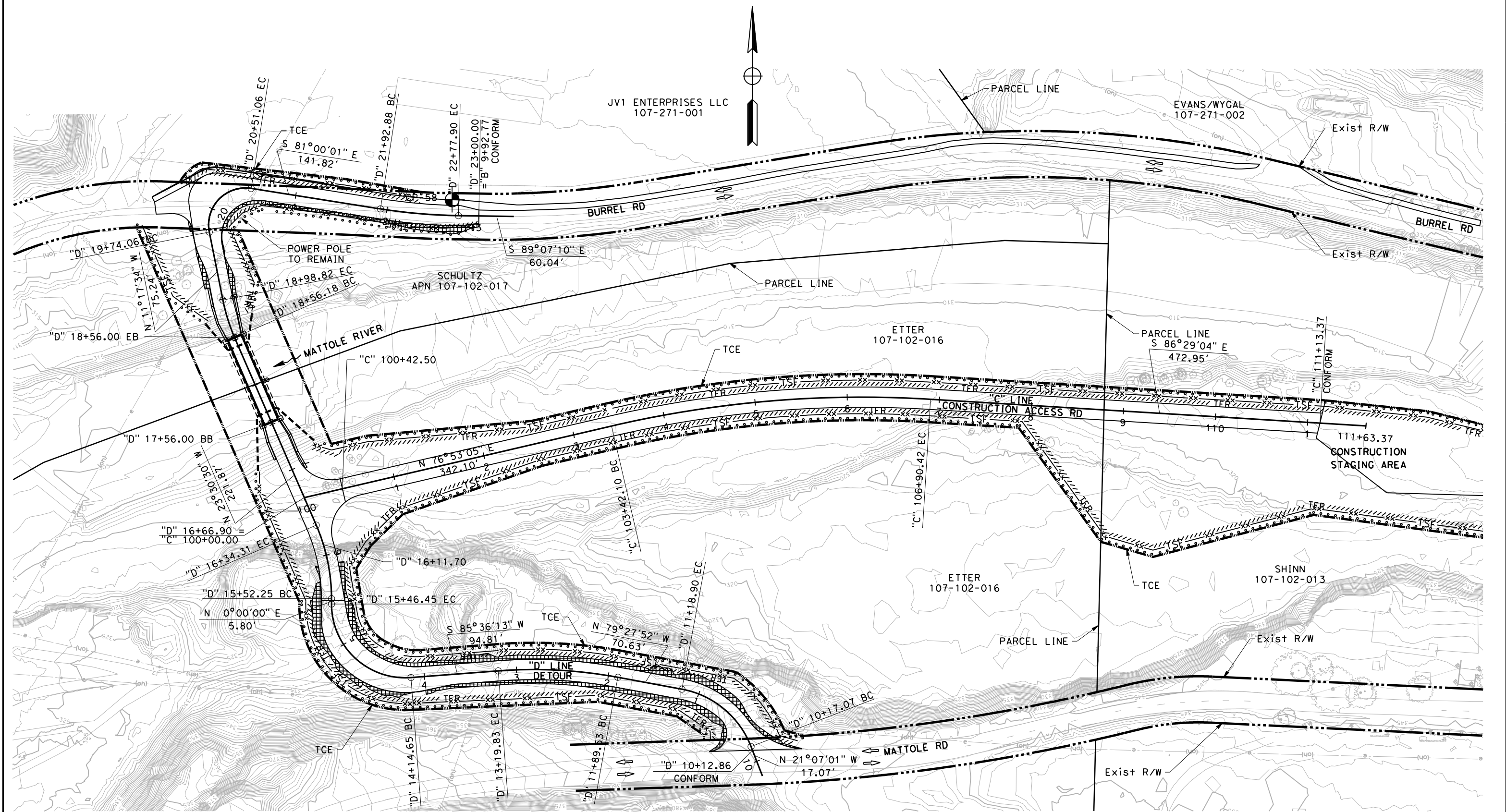
-  DIRECTION OF TRAFFIC
-  TEMPORARY EROSION CONTROL (TYPE 1)
-  TSF TEMPORARY SILT FENCE
-  36" PAINTED LATH (ORANGE) (AT 8 FT SPACING)



ROAD NAME: MATTOLE ROAD		MILE POST:	
ROAD NO.: F30010	FED PROJECT NO.: BRLS-5904(024)	EA NO.: 01-279414L	DESIGNED BY: KP
CONTRACT NO.: 594055	PPNO.:		DRAWN BY: KB
DRAWING FILE NAME:			REVIEWED BY: MS
PLOT DATE: 12-08-2023	REVISION DATE:		APPROVED BY:



COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS		SHEET 11 OF 74
MATTOLE ROAD AT MATTOLE RIVER BRIDGE REPLACEMENT PROJECT (AT HONEYDEW)		
WATER POLLUTION CONTROL PLAN SEASON 1 DURING CONSTRUCTION		



SCALE: 1"=50' **WPC-2**

NOTES:

1. THIS PLAN ACCURATE FOR TEMPORARY EROSION CONTROL WORK ONLY.
2. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT THE COUNTY OFFICE.
3. LOCATION OF FIBER ROLLS ARE SCHEMATIC. ACTUAL PLACEMENT LOCATIONS OF FIBER ROLLS SHALL BE IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
4. HYDROSEED (MIX 1) SHALL NOT BE PLACED WITHIN ACTIVE RIVER.
5. FOR PLANTING ZONE SEED MIX, SEE WATER POLLUTION CONTROL DETAILS.



ROAD NAME: MATTOLE ROAD	WILE POST:
ROAD NO.: F30010	EA NO.: 01-279414L
FED PROJECT NO.: BRLS-5904(024)	PPNO.:
CONTRACT NO.: 594055	DRAWING FILE NAME:
PLOT DATE: 12-08-2023	REVISION DATE:

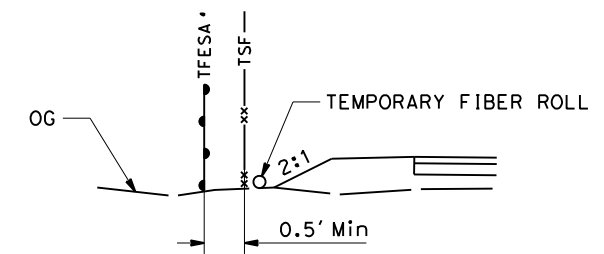
DESIGNED BY: KP
DRAWN BY: KB
REVIEWED BY: MS
APPROVED BY:

COUNTY OF HUMBOLDT
DEPARTMENT OF PUBLIC WORKS
**MATTOLE ROAD AT MATTOLE RIVER BRIDGE
REPLACEMENT PROJECT (AT HONEYDEW)**
**WATER POLLUTION CONTROL PLAN
SEASON 1 AFTER CONSTRUCTION**

SHEET **12**
OF
74

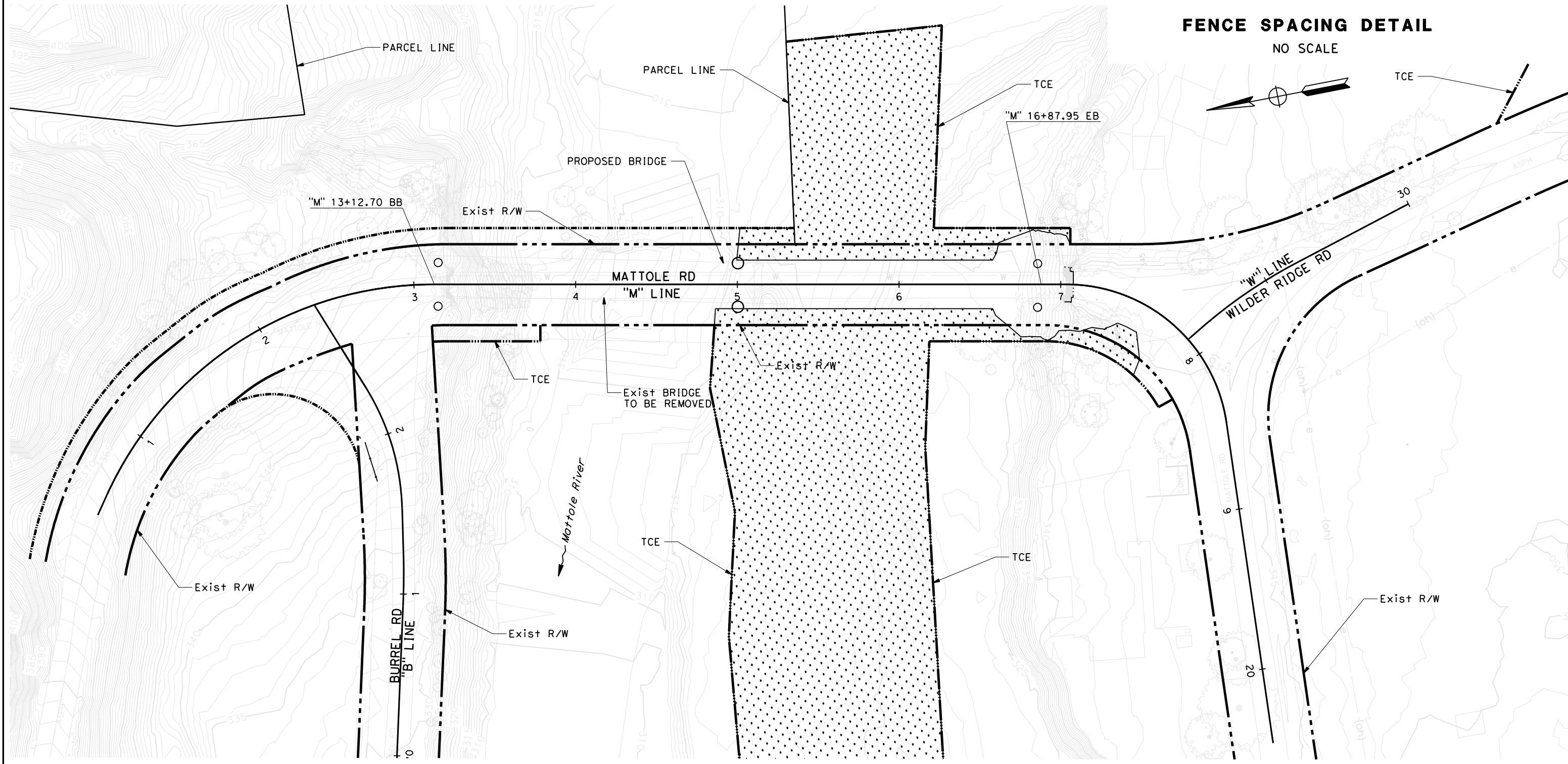
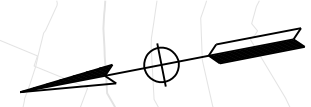
LEGEND:

- TEMPORARY EROSION CONTROL (TYPE 1)
- TEMPORARY FIBER ROLL
- TEMPORARY SILT FENCE
- TEMPORARY HIGH-VISIBILITY FENCE
- TEMPORARY EROSION CONTROL (TYPE 2)



FENCE SPACING DETAIL

NO SCALE


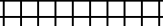






SCALE: 1"=30' **WPC-3**

NOTES:

1. THIS PLAN ACCURATE FOR TEMPORARY DETOUR ROADWAY LAYOUT ONLY.
2. FOR UTILITY INFORMATION, SEE UTILITY SHEETS.

LEGEND:

-  DIRECTION OF TRAFFIC
-  TEMPORARY EROSION CONTROL (TYPE 1)
-  TFR TEMPORARY FIBER ROLLS
-  TSF TEMPORARY SILT FENCE
-  TFESA TEMPORARY HIGH-VISIBILITY FENCE
-  TEMPORARY EROSION CONTROL (TYPE 2)

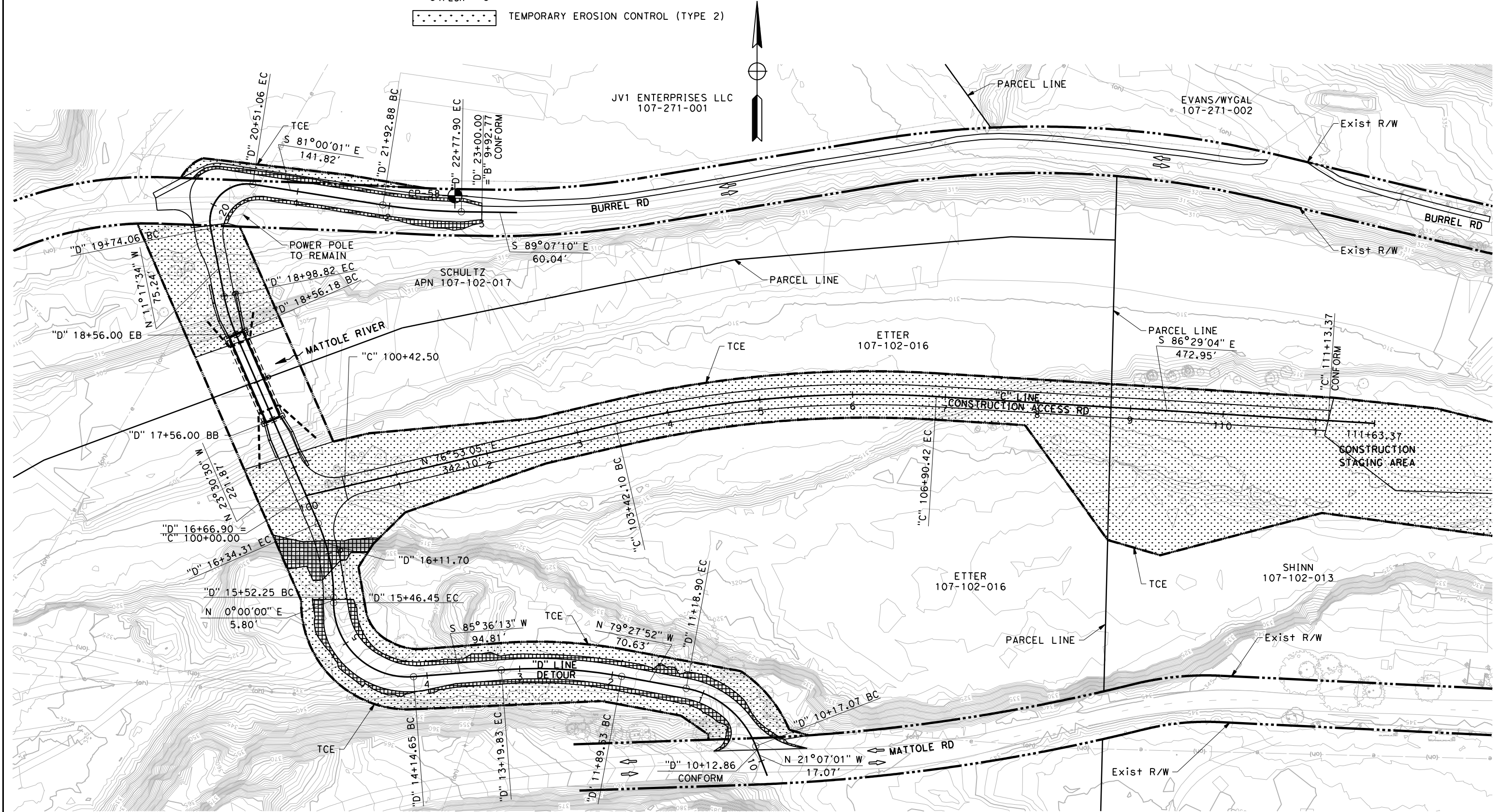


ROAD NAME: MATTOLE ROAD		DESIGNED BY: KP	
ROAD NO.: F30010	MILE POST:	DRAWN BY: KB	REVIEWED BY: MS
FED PROJECT NO.: BRLS-5904(024)	EA NO.: 01-279414L	APPROVED BY:	
CONTRACT NO.: 594055	PPNO.:		
DRAWING FILE NAME:	REVISION DATE:		
PLOT DATE: 12-08-2023			



COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	
MATTOLE ROAD AT MATTOLE RIVER BRIDGE REPLACEMENT PROJECT (AT HONEYDEW)	
WATER POLLUTION CONTROL PLAN SEASON 1 AFTER CONSTRUCTION	

SHEET 13 OF 74



SCALE: 1"=50' **WPC-4**

NOTES:

1. THIS PLAN ACCURATE FOR TEMPORARY EROSION CONTROL WORK ONLY.
2. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT THE COUNTY OFFICE.
3. LOCATION OF FIBER ROLLS ARE SCHEMATIC. ACTUAL PLACEMENT LOCATIONS OF FIBER ROLLS SHALL BE IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
4. HYDROSEED (MIX 1) SHALL NOT BE PLACED WITHIN ACTIVE RIVER.
5. FOR PLANTING ZONE SEED MIX, SEE WATER POLLUTION CONTROL DETAILS.
6. PAINTED LATHS SHALL BE SPACED NO GREATER THAN 8 FT ON CENTER



ROAD NAME: MATTOLE ROAD	ROAD NO.: F30010	MILE POST:
FED PROJECT NO.: BRLS-5904(024)	EA NO.: 01-279414L	DESIGNED BY: KP
CONTRACT NO.: 594055	PPNO.:	DRAWN BY: KB
DRAWING FILE NAME:		REVIEWED BY: MS
PLOT DATE: 12-08-2023	REVISION DATE:	APPROVED BY:

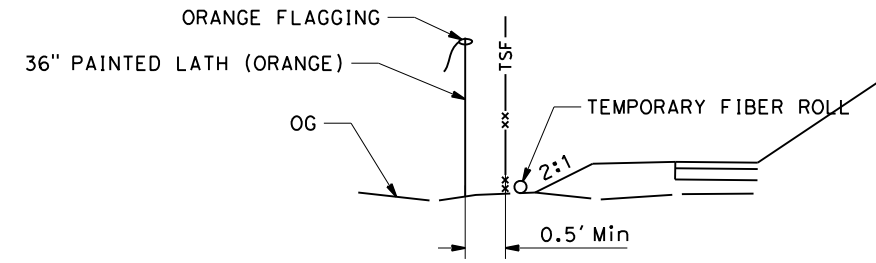


COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
MATTOLE ROAD AT MATTOLE RIVER BRIDGE REPLACEMENT PROJECT (AT HONEYDEW)
WATER POLLUTION CONTROL PLAN SEASON 2 DURING CONSTRUCTION

SHEET **14**
OF
74

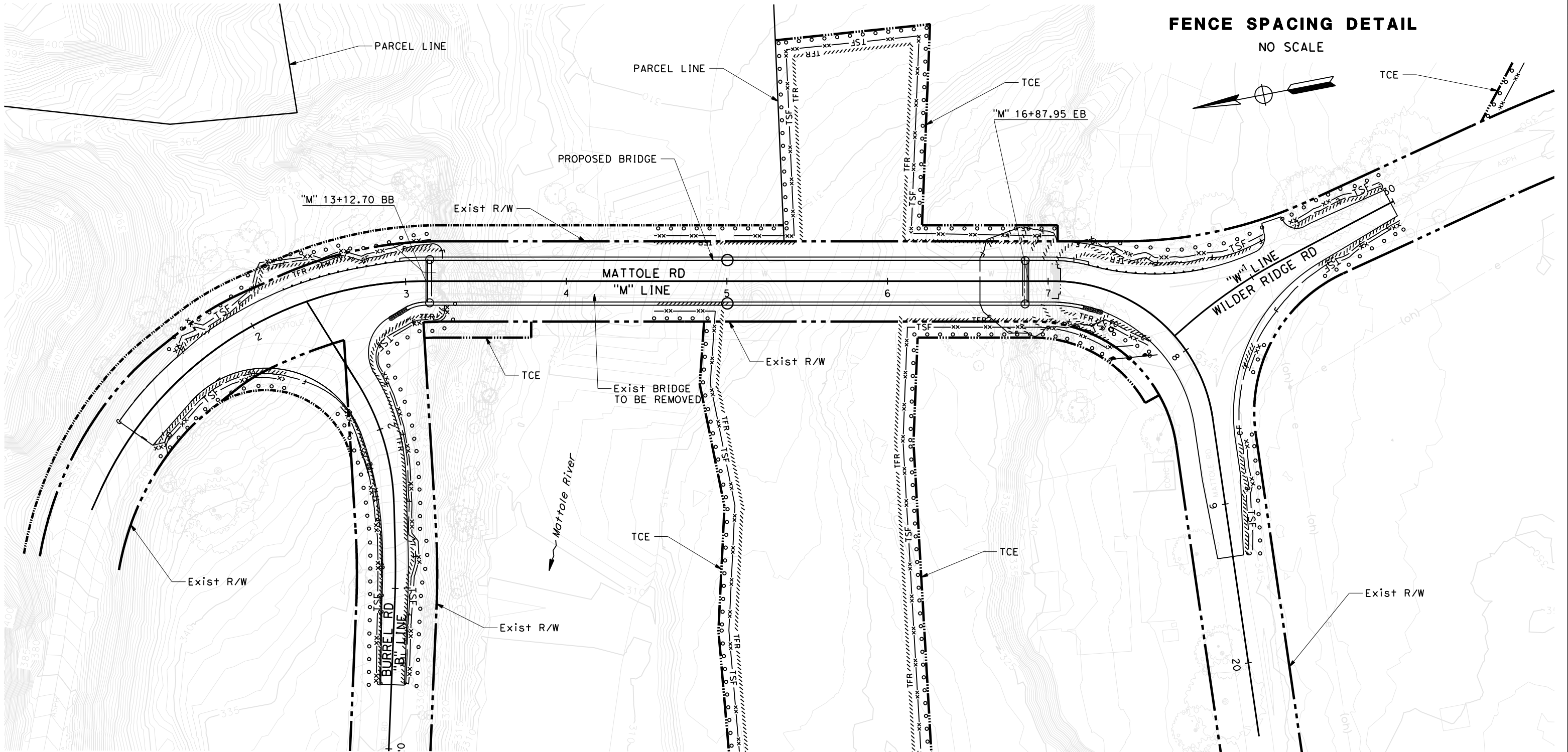
LEGEND:

- TEMPORARY EROSION CONTROL (TYPE 1)
- TEMPORARY FIBER ROLL
- TEMPORARY SILT FENCE
- 36" PAINTED LATH (ORANGE) (AT 8 FT SPACING)
- TEMPORARY EROSION CONTROL (TYPE 2)



FENCE SPACING DETAIL

NO SCALE




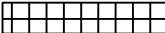




SCALE: 1"=30'

WPC-5

NOTES:

1. THIS PLAN ACCURATE FOR TEMPORARY DETOUR ROADWAY LAYOUT ONLY.
2. FOR UTILITY INFORMATION, SEE UTILITY SHEETS.
3. PAINTED LATHS SHALL BE SPACED NO GREATER THAN 8 FT ON CENTER

LEGEND:

-  DIRECTION OF TRAFFIC
-  TEMPORARY EROSION CONTROL (TYPE 1)
-  TFR
-  TEMPORARY SILT FENCE
-  36" PAINTED LATH (ORANGE) (AT 8 FT SPACING)
-  TEMPORARY EROSION CONTROL (TYPE 2)

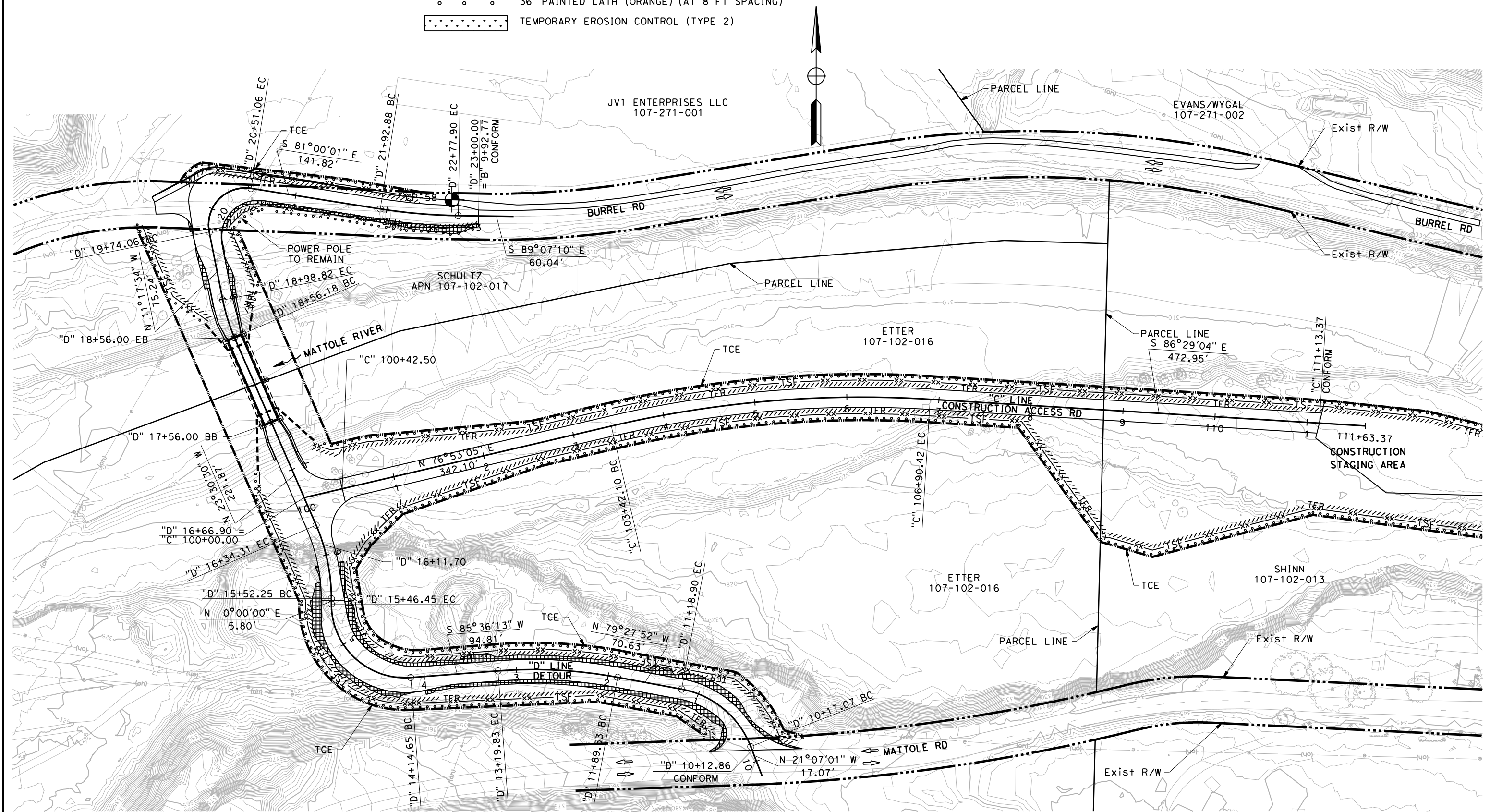


ROAD NAME: MATTOLE ROAD		MILE POST:	
ROAD NO.: F30010	FED PROJECT NO.: BRLS-5904(024)	EA NO.: 01-279414L	
CONTRACT NO.: 594055	PPNO.:		
DRAWING FILE NAME:			
PLOT DATE: 12-08-2023	REVISION DATE:		

DESIGNED BY: KP	DRAWN BY: KB	REVIEWED BY: MS	APPROVED BY:
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COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS MATTOLE ROAD AT MATTOLE RIVER BRIDGE REPLACEMENT PROJECT (AT HONEYDEW) WATER POLLUTION CONTROL PLAN SEASON 2 DURING CONSTRUCTION

SHEET **15**
OF
74



SCALE: 1"=50' **WPC-6**



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

ROAD NAME: MATTOLE ROAD	MILE POST:	DESIGNED BY: KP
ROAD NO.: F30010	EA NO.: 01-279414L	DRAWN BY: KB
FED PROJECT NO.: BRLS-5904(024)	PPNO.:	REVIEWED BY: MS
CONTRACT NO.: 594055	DRAWING FILE NAME:	APPROVED BY:
PLOT DATE: 12-08-2023	REVISION DATE:	



COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
MATTOLE ROAD AT MATTOLE RIVER BRIDGE REPLACEMENT PROJECT (AT HONEYDEW)
WATER POLLUTION CONTROL DETAILS

SHEET
16
OF
74

TEMPORARY EROSION CONTROL (TYPE 1)

SEQUENCE	ITEM	MATERIAL		APPLICATION RATE	REMARKS
		DESCRIPTION	TYPE		
STEP 1	TEMPORARY EROSION CONTROL BLANKET	COIR NETTING	TYPE B		
STEP 2	TEMPORARY HYDROSEED (MIX 1)	SEED	MIX 1	62 LBS/AC	
		FIBER	FIBER	500 LBS/AC	
STEP 3	TEMPORARY HYDRAULIC MULCH	FIBER	WOOD	4000 LBS/AC	
		TACKIFIER	PSYLLIUM	400 LBS/AC	
STEP 4	TEMPORARY FIBER ROLLS	FIBER ROLL	8 TO 10 INCHES IN Dia		TYPE 2 INSTALLATION

TEMPORARY HYDROSEED MIX 1

BOTANICAL NAME (COMMON NAME)	POUNDS PURE LIVE SEED PER ACRE (SLOPE MEASUREMENT)
WESTERN YARROW (ACHILLEA MILLEFOLIUM)	1
CALIFORNIA BROME (BROMUS CARINATUS)	25
CALIFORNIA BUCKWHEAT (ERIOGONUM FASCICULATUM)	25
GOLDEN YARROW (ERIOPHYLLUM CONFERTIFLORUM)	3
DEERWEED (ACMISPON GLABER)	8
TOTAL	62

TEMPORARY EROSION CONTROL (TYPE 2)

SEQUENCE	ITEM	MATERIAL		APPLICATION RATE	REMARKS
		DESCRIPTION	TYPE		
STEP 1	TEMPORARY HYDRAULIC BIOTIC GROWTH MEDIUM	SEED	MIX 1	62 LBS/AC	
		HBCM		3500 LBS/AC	
STEP 2	TEMPORARY HYDRAULIC MULCH (BONDED FIBER MATRIX)	THM (BFM)		2500 LBS/AC	

NO SCALE

ECD-1

NOTES:

- FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT THE COUNTY OFFICE.
- CONTOURS SHOWN REPRESENT FINISH GRADE SURFACE.

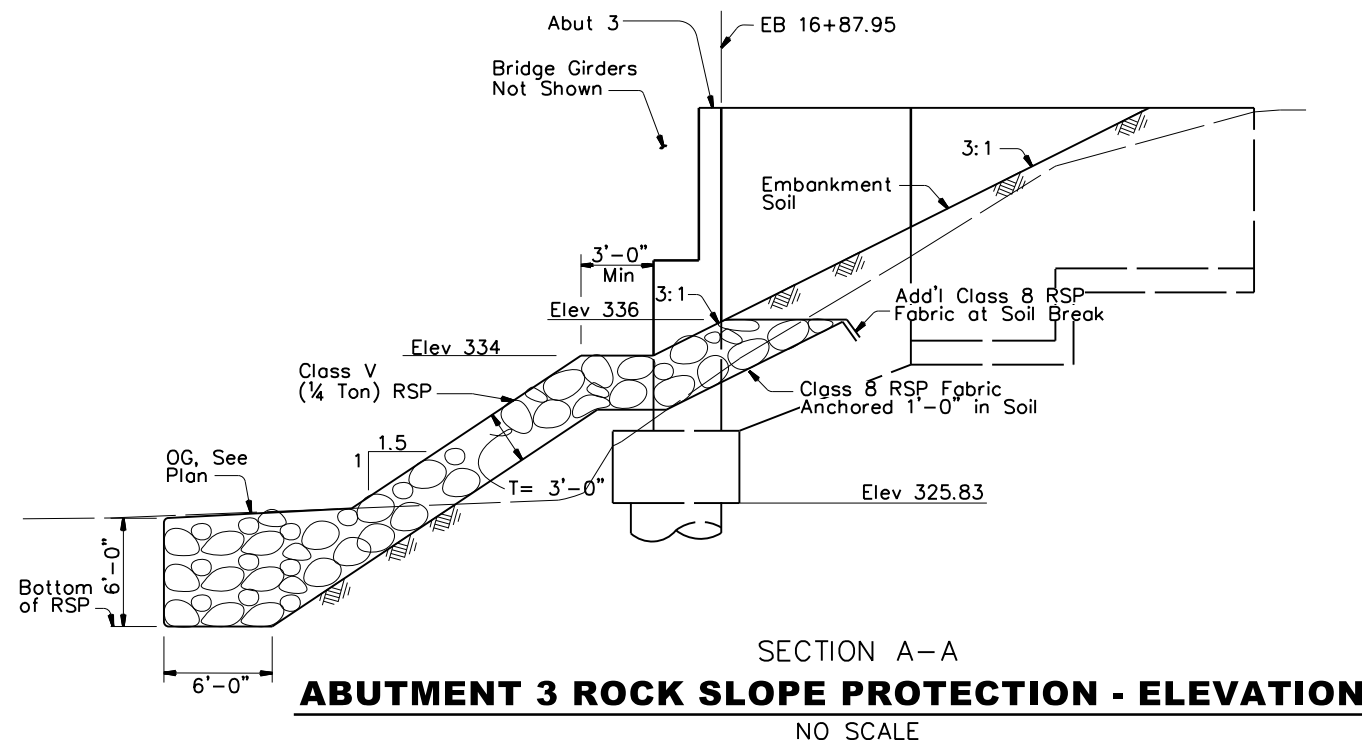
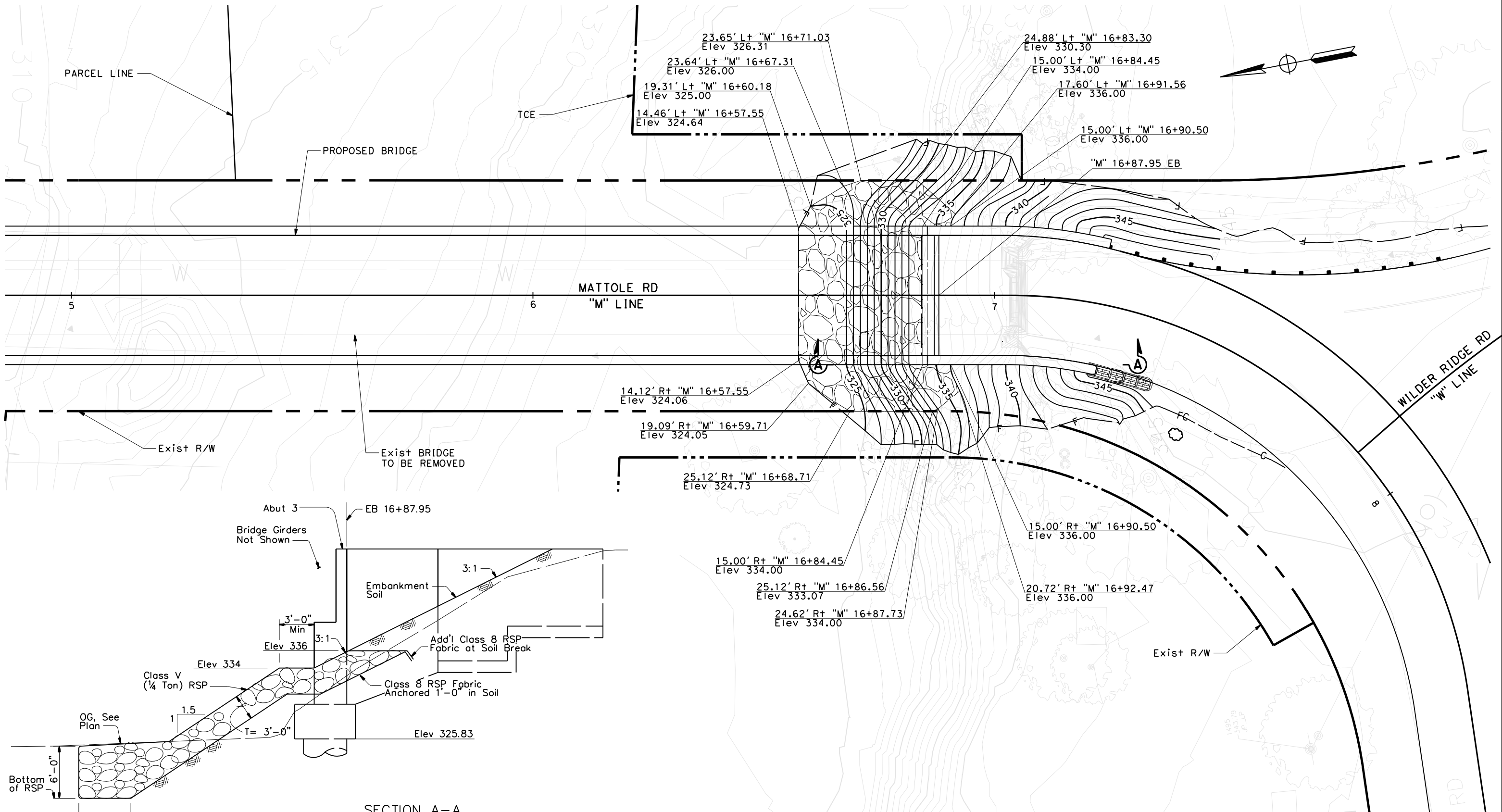
LEGEND:

➔ DIRECTION OF TRAFFIC



ROAD NAME: MATTOLE ROAD		DESIGNED BY: KP	
ROAD NO.: F30010	MILE POST:	DRAWN BY: KB	REVIEWED BY: MS
FED PROJECT NO.: BRLS-5904(024)	EA NO.: 01-279414L	APPROVED BY:	
CONTRACT NO.: 594055	PPNO.:		
DRAWING FILE NAME:			
PLOT DATE: 12-08-2023	REVISION DATE:		

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS		SHEET
MATTOLE ROAD AT MATTOLE RIVER BRIDGE REPLACEMENT PROJECT (AT HONEYDEW)		17
CONTOUR GRADING		OF
		74



ABUTMENT 3 ROCK SLOPE PROTECTION - ELEVATION

SECTION A-A



NO SCALE

SCALE: 1"=10'

G-1


LEGEND:

- EXISTING RIGHT OF WAY
- _____ PARCEL LINE
- - - - - TEMPORARY CONSTRUCTION EASEMENT (TCE) FOR CONSTRUCTION
- IMPLIED COMMON LAW DEDICATION

-  REMOVE TREE
-  LOG LOCATION (APPROXIMATE)

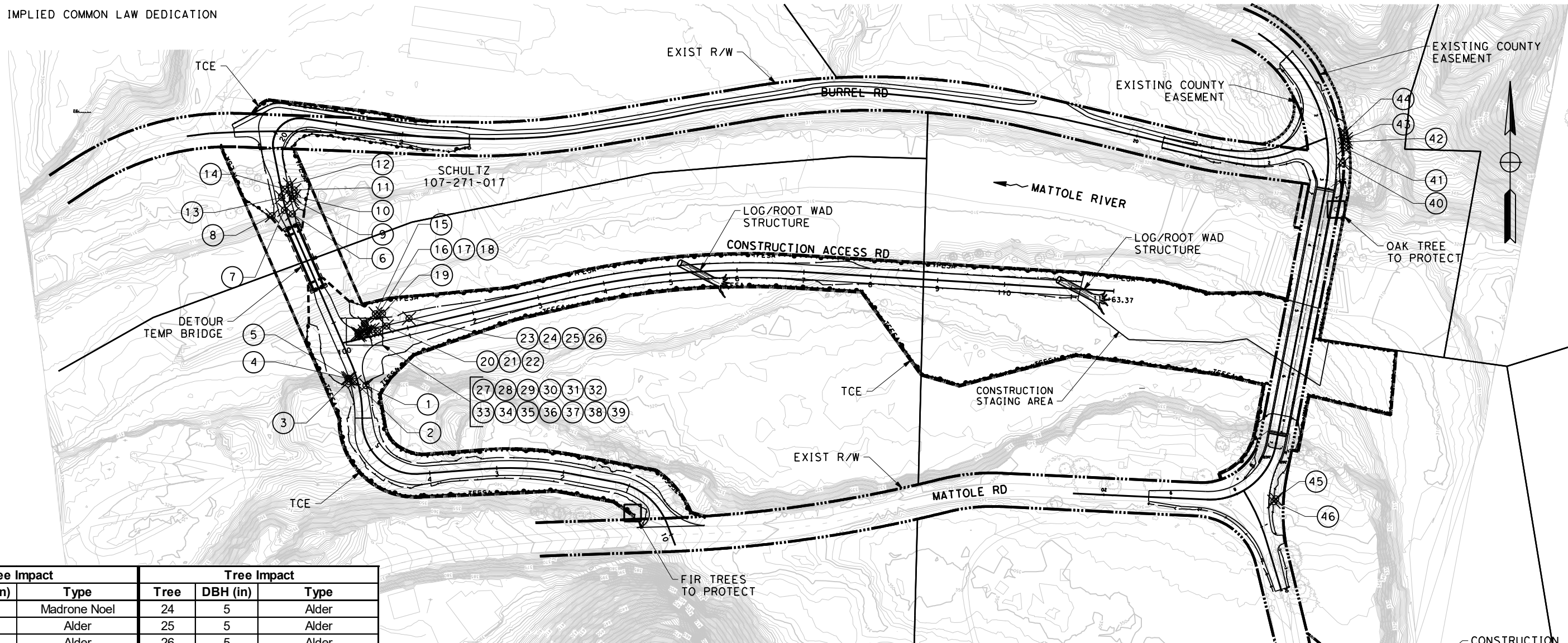


ROAD NAME: MATTOLE ROAD	MILE POST: XX
ROAD NO.: F30010	EA NO.: 01-279414L
FED PROJECT NO.: BRLS-5904(024)	PPNO.:
CONTRACT NO.:	DRAWING FILE NAME:
PLOT DATE: 12-08-2023	REVISION DATE:

	DESIGNED BY: KP
	DRAWN BY: KP
	REVIEWED BY: MS
	APPROVED BY:

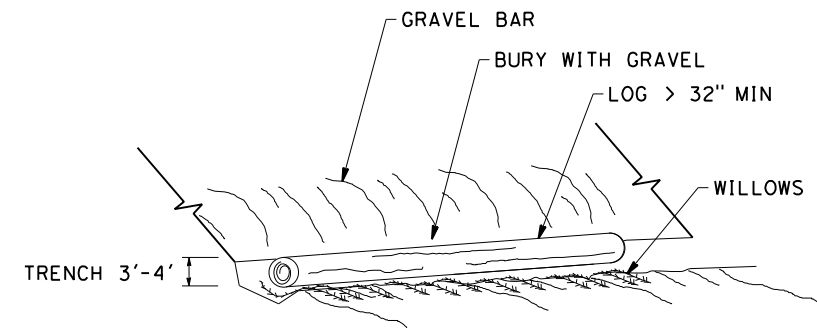
**COUNTY OF HUMBOLDT
DEPARTMENT OF PUBLIC WORKS
MATTOLE ROAD AT MATTOLE RIVER BRIDGE
REPLACEMENT PROJECT (AT HONEYDEW)**

SHEET
18
OF
74

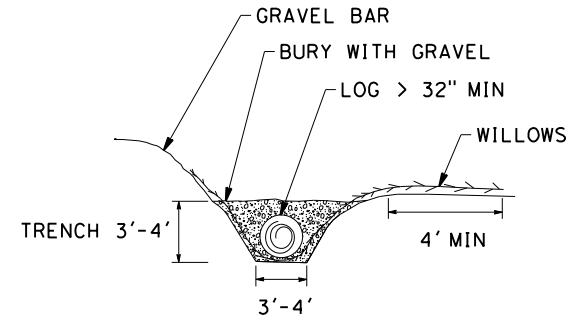


Tree Impact			Tree Impact		
Tree	DBH (in)	Type	Tree	DBH (in)	Type
1	22	Madrone Noel	24	5	Alder
2	8	Alder	25	5	Alder
3	14	Alder	26	5	Alder
4	18	Alder	27	7	Alder
5	8	Alder	28	6	Alder
6	9	Alder	29	6	Alder
7	9	Willow	30	6	Alder
8	5	Alder	31	6	Alder
9	10	Willow	32	6	Alder
10	8	Willow	33	6	Alder
11	8	Willow	34	6	Alder
12	8	Willow	35	7	Alder
13	5	Willow	36	7	Alder
14	8	Willow	37	6	Alder
15	6	Alder	38	6	Alder
16	6	Alder	39	6	Alder
17	6	Alder	40	8	White Oak
18	6	Alder	41	14	Live Oak
19	7	Alder	42	20	Live Oak
20	6	Alder	43	6	Douglas Fir
21	6	Alder	44	43	Douglas Fir
22	6	Alder	45	18	White Oak
23	7	Alder	46	14	White Oak

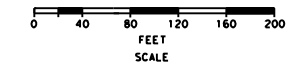
- LOG MITIGATION/CONSTRUCTION APPROACH NOTES**
- CUT 3' TO 4' DEEP TRENCH
 - PLACE WILLOWS (LENGTH > 10') ALONG BOTTOM OF TRENCH TO FORM A "WILLOW MAT"
 - LOG TO BE PLACED ON TOP OF A WILLOW MAT
 - BURY LOG AND WILLOWS WITH GRAVEL
 - APPROXIMATE LOG LOCATIONS - FINAL LOCATIONS TO BE DETERMINED IN COORDINATION WITH PROPERTY OWNER(S)



DETAIL
NO SCALE



SECTION VIEW
NO SCALE



SCALE: 1"=80'

TR-1

USERNAME => kevin.BelDAGIE PLOTTED => 12/11/2023 11:28:47 AM

NOTES:

1. THIS PLAN ACCURATE FOR DRAINAGE WORK ONLY.
2. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT THE COUNTY OFFICE.
3. FOR BIORETENTION SWALE DETAILS, SEE DRAINAGE DETAILS.
4. DRILL HOLES EVERY 6" WITH STAGGERED SPACING
5. PLACE PIPE WITH PERFORATIONS FACING DOWN

LEGEND:

- XXX DRAINAGE SYSTEM NUMBER
- XX DRAINAGE UNIT LETTER
- [Hatched Box] BIORETENTION SWALE
- [Arrow] DIRECTION OF DITCH FLOW

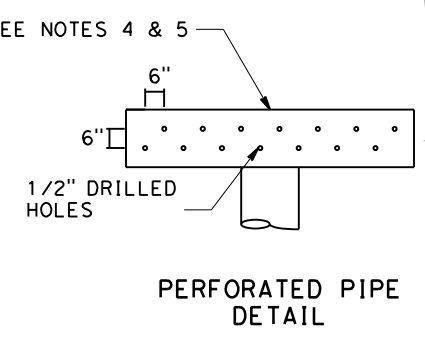
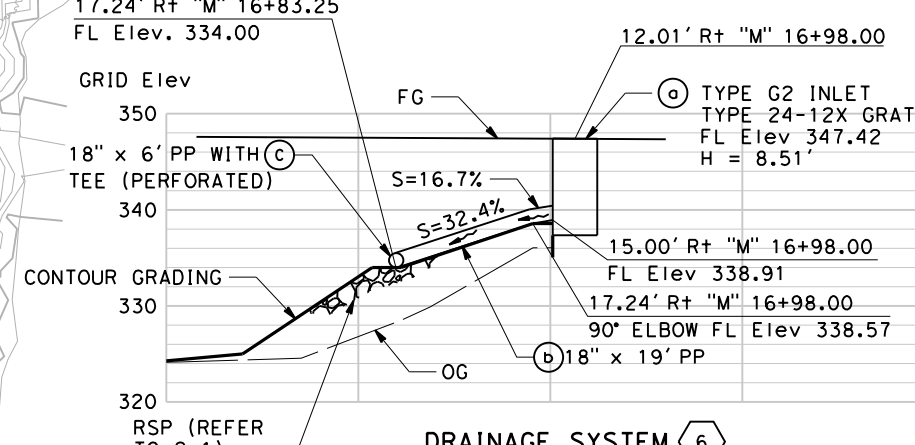
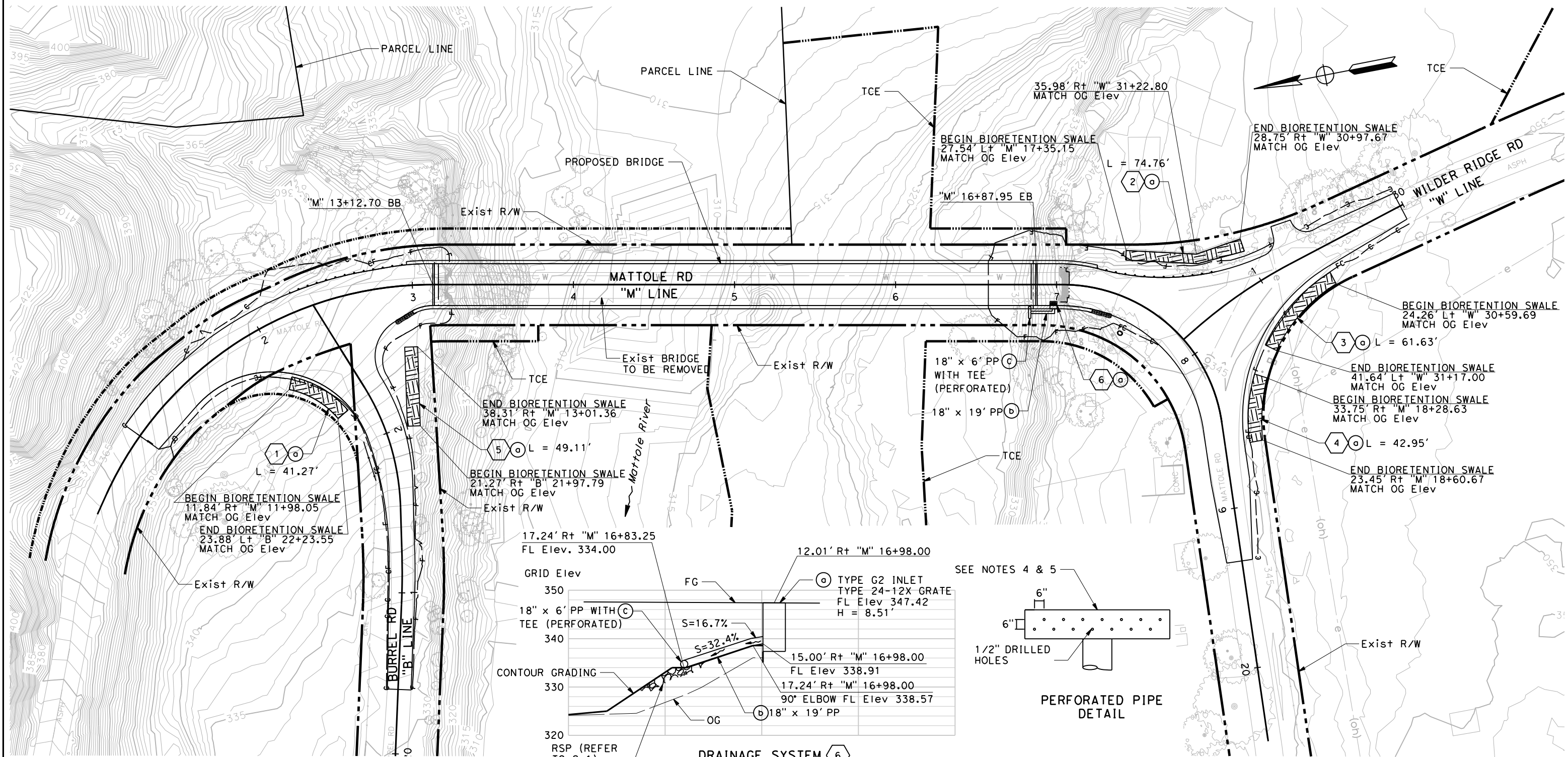


BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

ROAD NAME: MATTOLE ROAD	MILE POST:	DESIGNED BY: KP
ROAD NO.: F30010	EA NO.: 01-279414L	DRAWN BY: KB
FED PROJECT NO.: BRLS-5904(024)	PPNO.:	REVIEWED BY: MS
CONTRACT NO.: 594055	REVISION DATE:	APPROVED BY:
DRAWING FILE NAME:		
PLOT DATE: 12-08-2023		



COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 19
MATTOLE ROAD AT MATTOLE RIVER BRIDGE REPLACEMENT PROJECT (AT HONEYDEW)	OF 74
DRAINAGE PLAN	



DRAINAGE SYSTEM 6
SCALE: 1"=10'

SCALE: 1"=30' **D-1**

NOTES:

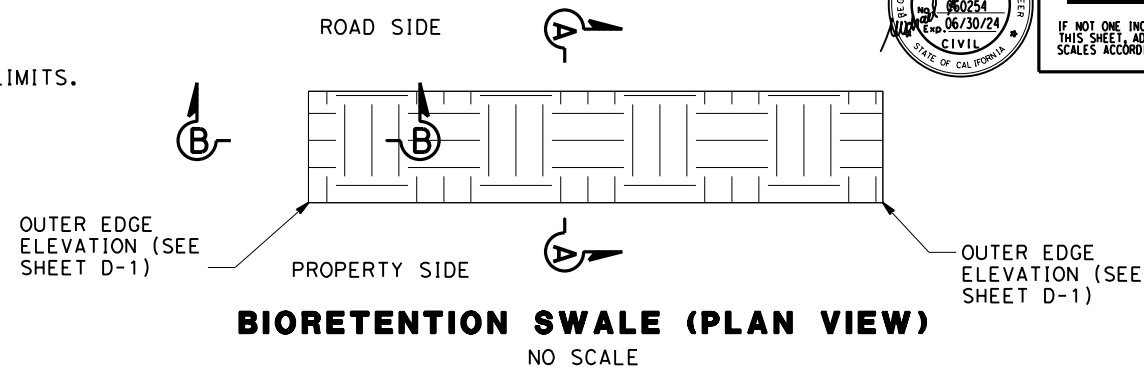
- DO NOT WORK WITHIN BIORETENTION AREA DURING RAIN OR UNDER WET CONDITIONS.
- KEEP HEAVY MACHINERY OUTSIDE BIORETENTION AREA LIMITS.



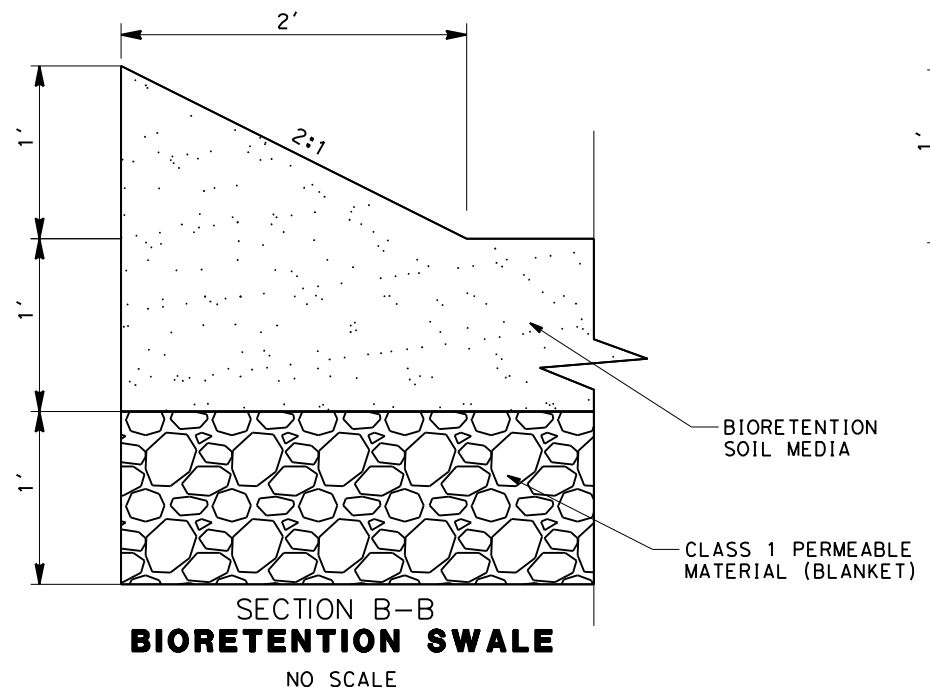
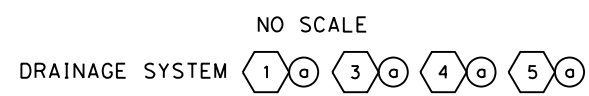
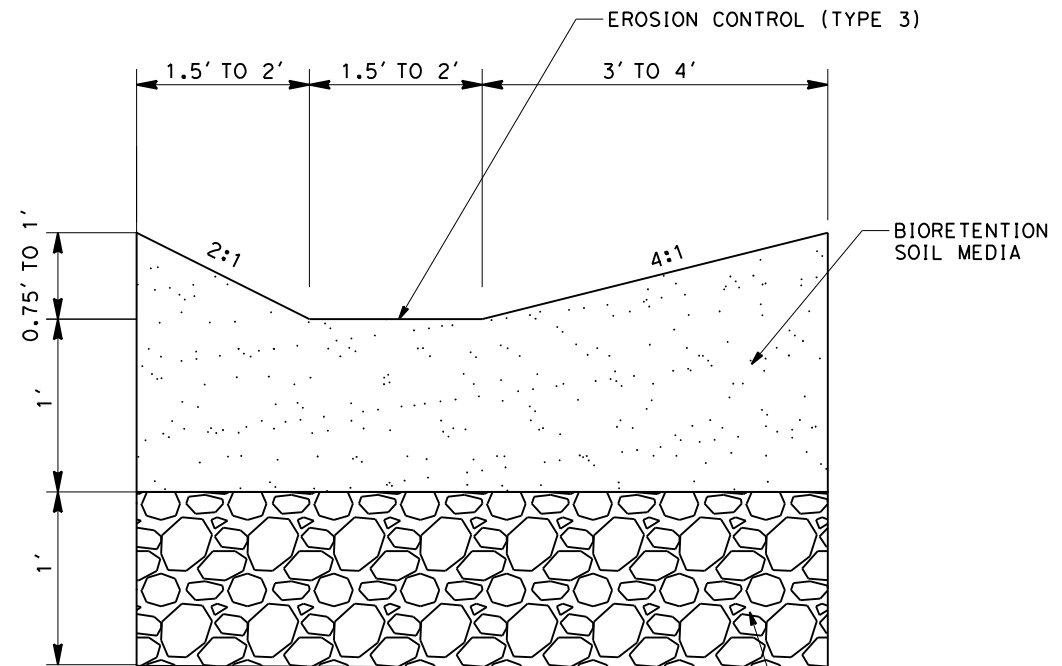
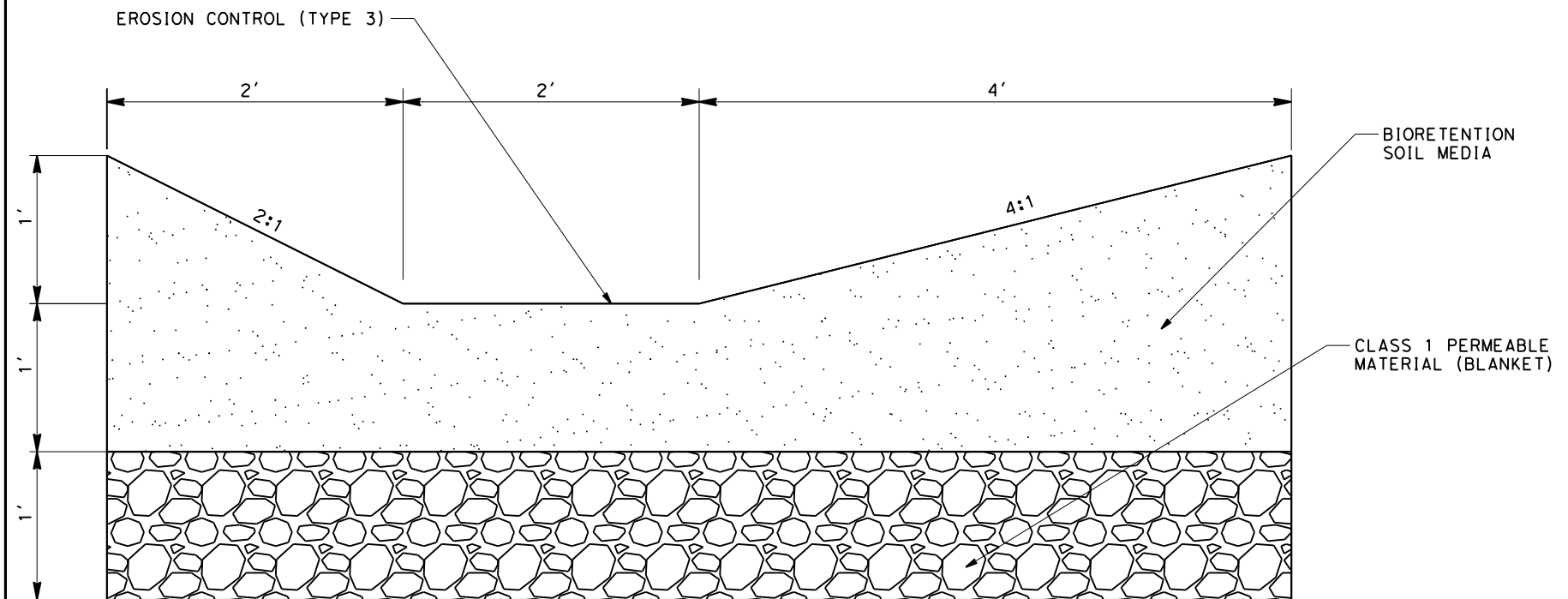
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

ROAD NAME: MATTOLE ROAD	MILE POST:	DESIGNED BY: KP
ROAD NO.: F30010	EA NO.: 01-279414L	DRAWN BY: KB
FED PROJECT NO.: BRLS-5904(024)	PPNO.:	REVIEWED BY: MS
CONTRACT NO.: 594055	REVISION DATE:	APPROVED BY:
DRAWING FILE NAME:		
PLOT DATE: 12-08-2023		

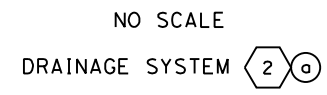
COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 20
MATTOLE ROAD AT MATTOLE RIVER BRIDGE REPLACEMENT PROJECT (AT HONEYDEW)	OF 74
DRAINAGE DETAILS	



SEQUENCE	ITEM	MATERIAL		APPLICATION RATE	REMARKS
		DESCRIPTION	TYPE		
STEP 1	BIORETENTION SOIL MEDIA	BIORETENTION SOIL MEDIA			
STEP 2	HYDROSEED MIX 2	SEED	MIX 2	31 LBS/AC	
		FIBER	FIBER	600 LBS/AC	
STEP 3	HYDROMULCH	TACKIFIER	PLANT BASED	200 LB/AC	
STEP 4	ROLLED EROSION CONTROL PRODUCT (BLANKET)	BLANKET	TYPE A		-
STEP 5	FIBER ROLLS	RICE STRAW FILLED AND JUTE COVERED	8 TO 10 INCHES IN Dia		



BOTANICAL NAME (COMMON NAME)	POUNDS PURE LIVE SEED PER ACRE (SLOPE MEASUREMENT)
WESTERN YARRO (ACHILLEA MILLEFOLIUM)	1
CLUSTERFIELD SLEDGE (CAREX PRAEGRACILIS)	5
BARLEY (HORDEUM BRACHYANTHERUM)	25
TOTAL	31



NOTES:

1. THIS PLAN ACCURATE FOR UTILITY WORK ONLY.
2. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY MAPS AT THE COUNTY OFFICE.

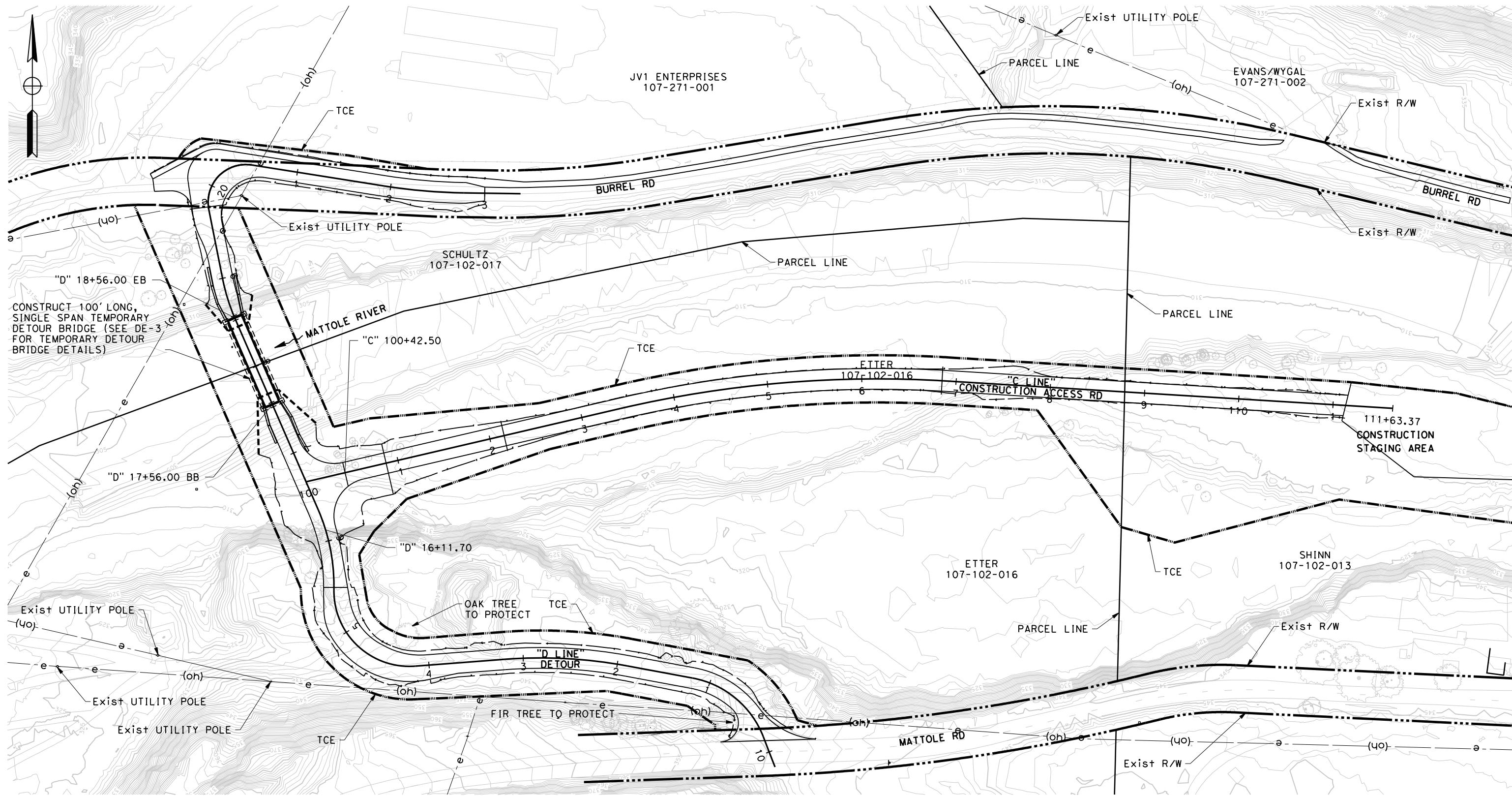
LEGEND:

-e- (oh) EXISTING ELECTRIC OVERHEAD



ROAD NAME: MATTOLE ROAD	DESIGNED BY: KP
ROAD NO.: F30010	MILE POST:
FED PROJECT NO.: BRLS-5904(024)	EA NO.: 01-279414L
CONTRACT NO.: 594055	PPNO.:
DRAWING FILE NAME:	REVIEWED BY: MS
PLOT DATE: 12-08-2023	APPROVED BY:
REVISION DATE:	

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS MATTOLE ROAD AT MATTOLE RIVER BRIDGE REPLACEMENT PROJECT (AT HONEYDEW)	SHEET 22 OF 74



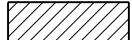



CONSTRUCT 100' LONG, SINGLE SPAN TEMPORARY DETOUR BRIDGE (SEE DE-3 FOR TEMPORARY DETOUR BRIDGE DETAILS)

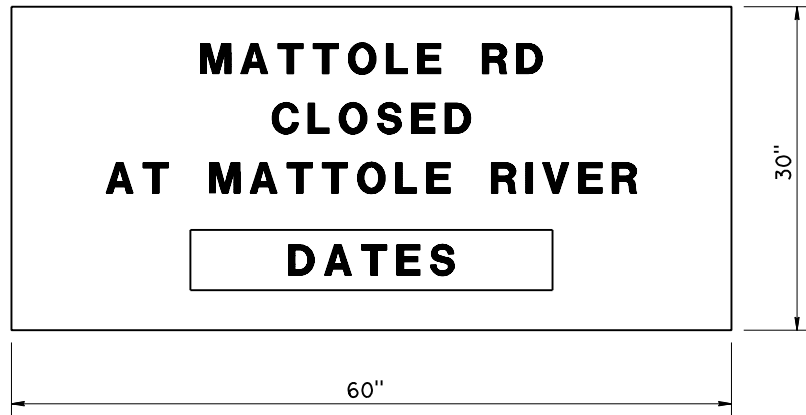
SCALE: 1"=50' **U-2**

NOTES:

1. THIS PLAN ACCURATE FOR DETOUR WORK ONLY.
2. SIGN LOCATIONS SHOWN ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.
3. R11-2 SIGNS MOUNTED ON BARRICADE.

LEGEND:

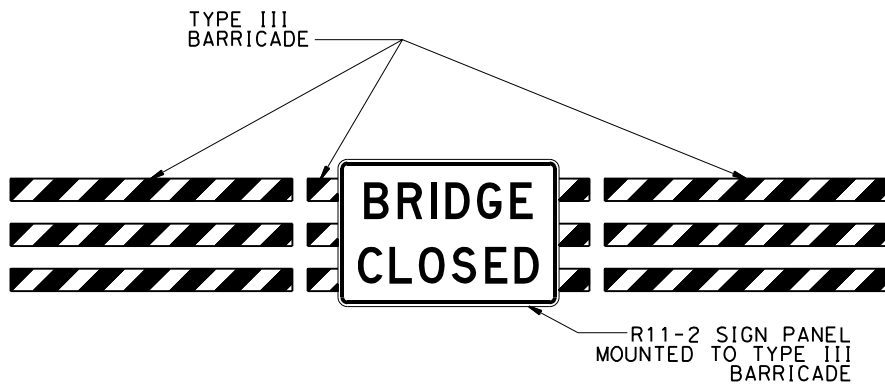
-  CONSTRUCTION AREA
-  CONSTRUCTION AREA SIGN
-  TYPE III BARRICADE
-  USE WITH FLASHERS AT NIGHT



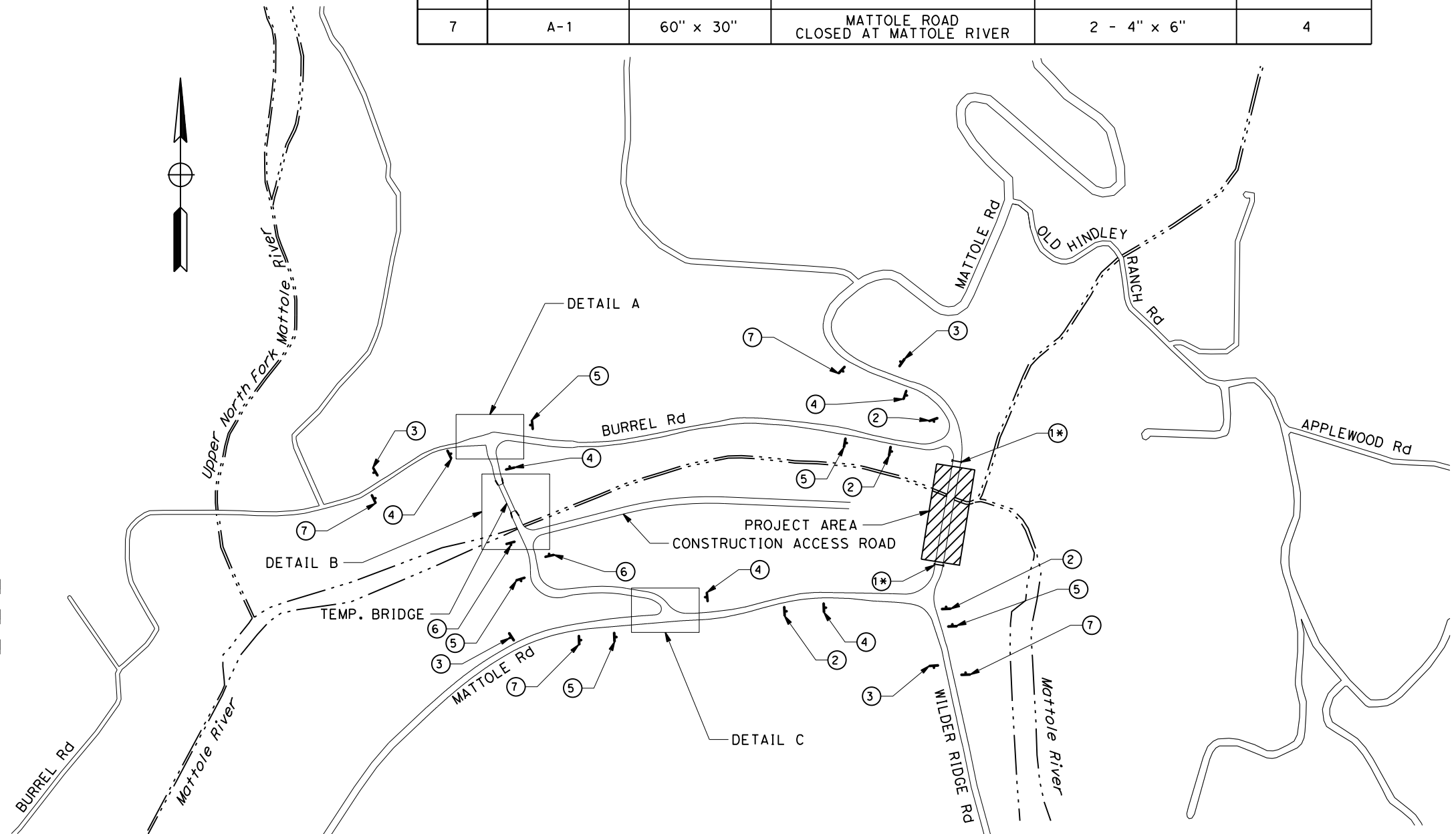
A-1 SIGN DETAIL
NO SCALE

TYPE III BARRICADE

LINE	STATION	EA
"M"	13+00	3
"M"	17+50	3
TOTAL		6



BRIDGE CLOSURE DETAIL



NO SCALE

CS-1



ROAD NAME: MATTOLE ROAD		MILE POST:		DESIGNED BY: KP	
ROAD NO.: F30010		EA NO.: 01-279414L		DRAWN BY: KB	
FED PROJECT NO.: BRLS-5904(024)		PPNO.:		REVIEWED BY: MS	
CONTRACT NO.: 594055		DRAWING FILE NAME:		APPROVED BY:	
PLOT DATE: 12-08-2023		REVISION DATE:			

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS		SHEET
MATTOLE ROAD AT MATTOLE RIVER BRIDGE REPLACEMENT PROJECT (AT HONEYDEW)		23
CONSTRUCTION AREA SIGNS		OF
		74

CONSTRUCTION AREA SIGNS

SIGN NO.	SIGN CODE	PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
1	R11-2B	48" x 30"	BRIDGE CLOSED	1 - 4" x 6"	2
2	W20-3	36" x 36"	ROAD CLOSED AHEAD	1 - 4" x 6"	4
3	M4-8a	24" x 18"	END DETOUR	1 - 4" x 6"	4
4	M4-10(R)	48" x 18"	DETOUR ARROW SIGN	1 - 4" x 6"	5
5	M4-10(L)	48" x 18"	DETOUR ARROW SIGN	1 - 4" x 6"	5
6	SC3(CA)	36" x 12"	DETOUR WITH ARROW	1 - 4" x 6"	2
7	A-1	60" x 30"	MATTOLE ROAD CLOSED AT MATTOLE RIVER	2 - 4" x 6"	4

NOTES:

1. THIS PLAN ACCURATE FOR DETOUR WORK ONLY.
2. SIGN LOCATIONS SHOWN ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.



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

ROAD NAME: MATTOLE ROAD	WILE POST:	DESIGNED BY: KP
ROAD NO.: F30010	EA NO.: 01-279414L	DRAWN BY: KB
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PLOT DATE: 12-08-2023	REVISION DATE:	



COUNTY OF HUMBOLDT
DEPARTMENT OF PUBLIC WORKS
**MATTOLE ROAD AT MATTOLE RIVER BRIDGE
REPLACEMENT PROJECT (AT HONEYDEW)**

SHEET
24
OF
74

LEGEND:

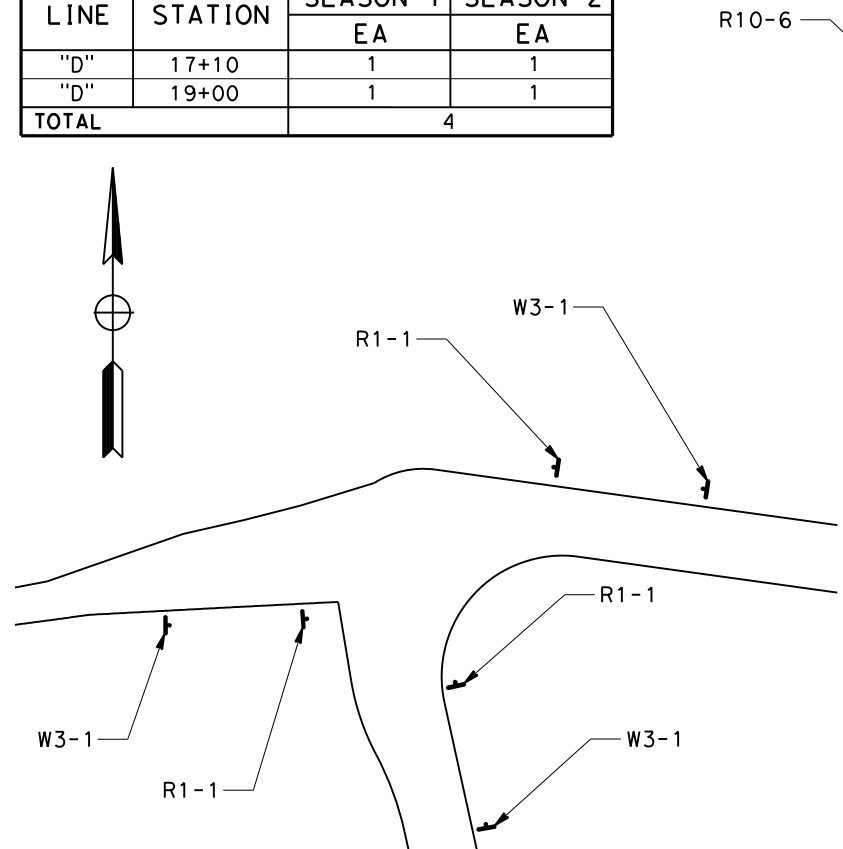
- ▾ CONSTRUCTION AREA SIGN
- ⊗ TS PORTABLE SIGNAL SYSTEM

PORTABLE SIGNAL SYSTEM

LINE	STATION	SEASON 1	SEASON 2
		EA	EA
"D"	17+10	1	1
"D"	19+00	1	1
TOTAL		4	

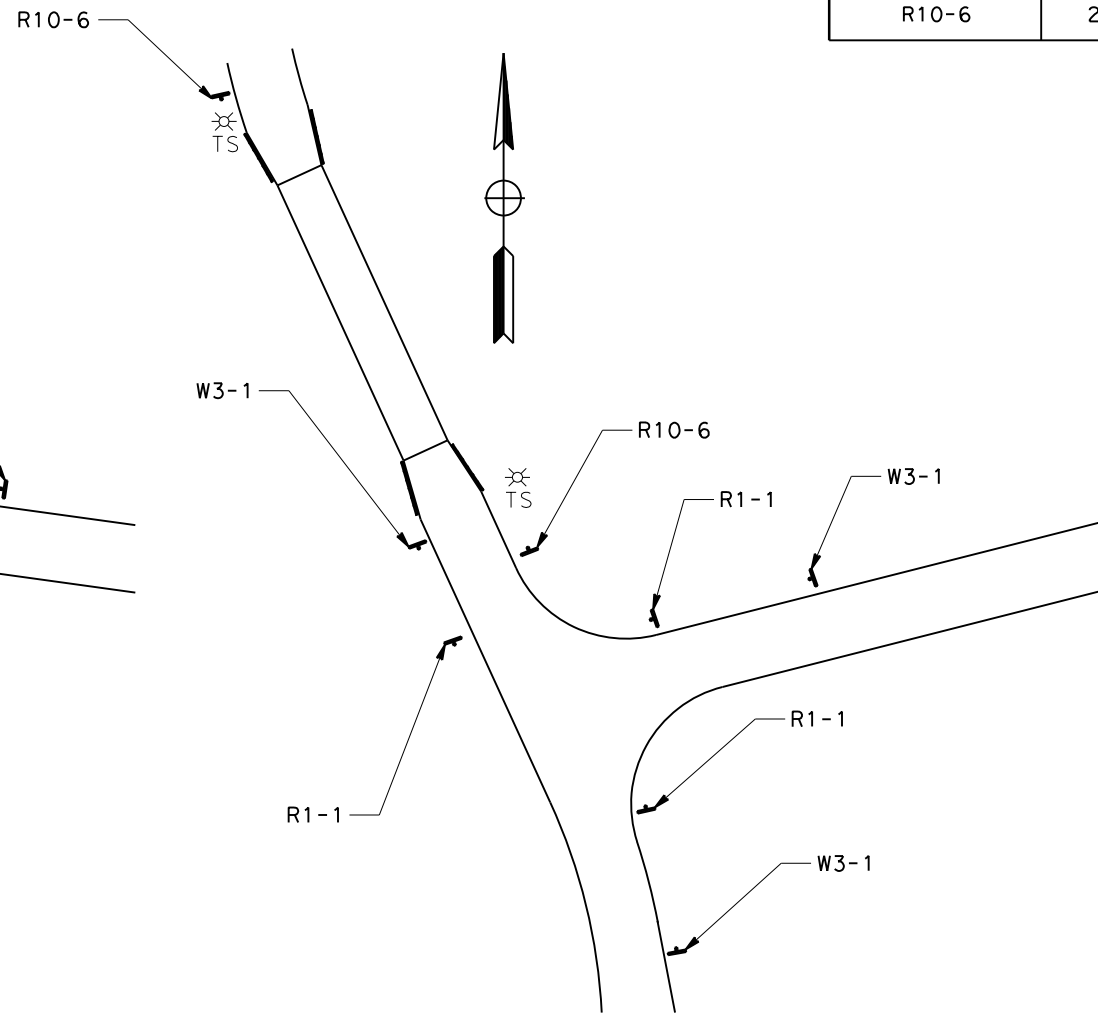
TEMPORARY ROAD SIGNS

SIGN CODE	PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
R1-1	30" x 30"	STOP	1 - 4" x 6"	9
W3-1	36" x 36"	STOP SIGN WITH ARROW	1 - 4" x 6"	9
R10-6	24" x 36"	"STOP HERE ON RED"	1 - 4" x 6"	2



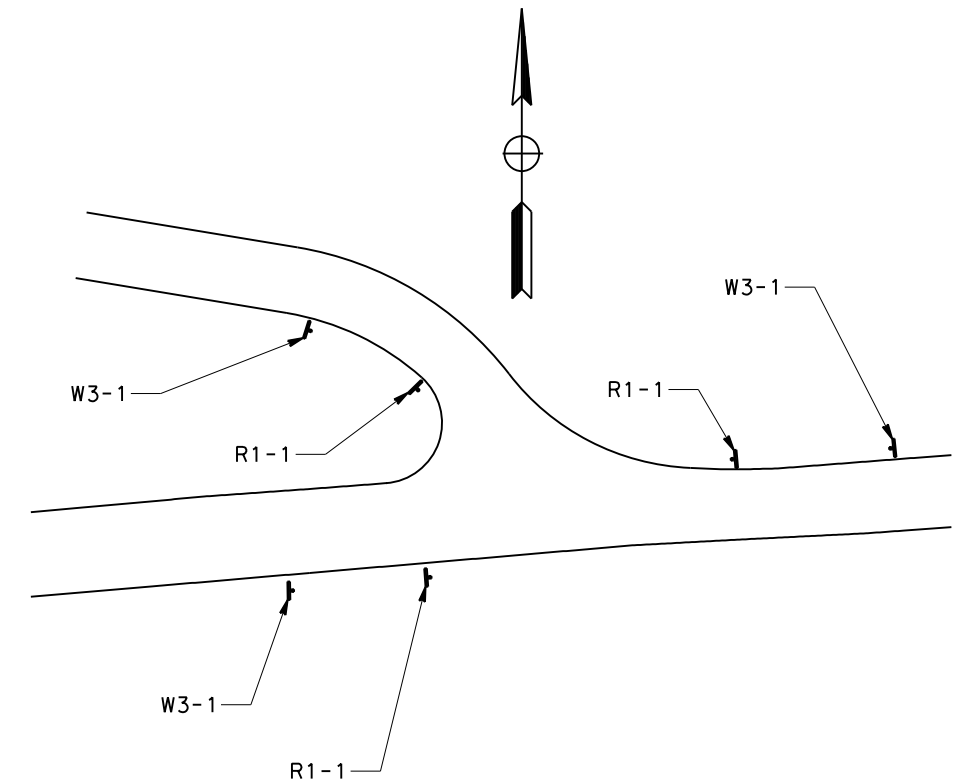
DETAIL A

NO SCALE



DETAIL B

NO SCALE



DETAIL C

NO SCALE

NO SCALE

CS-2

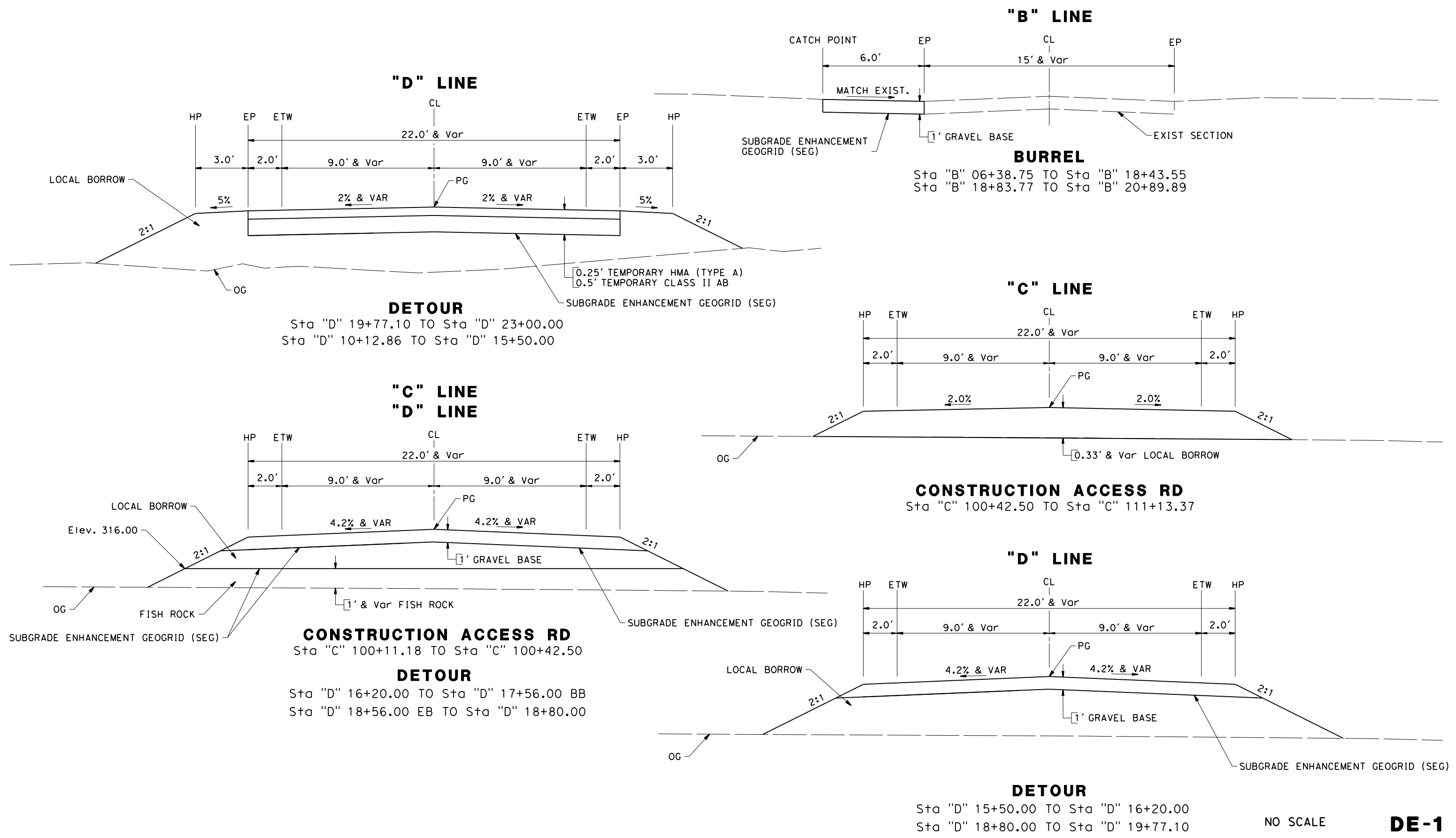


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ROAD NAME: MATTOLE ROAD	MILE POST:	DESIGNED BY: KP
ROAD NO.: F30010	EA NO.: 01-279414L	DRAWN BY: KB
FED PROJECT NO.: BRLS-5904(024)	PPNO.:	REVIEWED BY: MS
CONTRACT NO.: 594055	DRAWING FILE NAME:	APPROVED BY:
PLOT DATE: 12-08-2023	REVISION DATE:	

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS MATTOLE ROAD AT MATTOLE RIVER BRIDGE REPLACEMENT PROJECT (AT HONEYDEW)	SHEET
	25
DETOUR TYPICAL CROSS SECTIONS	OF
	74

NOTES:
1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.



NO SCALE **DE-1**

NOTES:

1. THIS PLAN ACCURATE FOR TEMPORARY DETOUR ROADWAY LAYOUT ONLY.
2. FOR UTILITY INFORMATION, SEE UTILITY SHEETS.

LEGEND:

- DIRECTION OF TRAFFIC
- CURVE DATA NUMBER
- SURVEY CONTROL POINT
- DRAINAGE SYSTEM
- DRAINAGE NUMBER

No.	R	Δ	T	L
1	100.00'	58° 20' 51"	55.83'	101.84'
2	500.00'	14° 55' 55"	65.52'	130.31'
3	80.00'	274° 23' 47"	86.39'	131.80'
4	200.00'	23° 30' 30"	41.62'	82.06'
5	200.00'	12° 12' 56"	21.40'	42.64'
6	40.00'	110° 17' 34"	57.44'	77.00'
7	600.00'	08° 07' 08"	42.58'	85.02'
8	1200.00'	16° 37' 51"	175.39'	348.32'

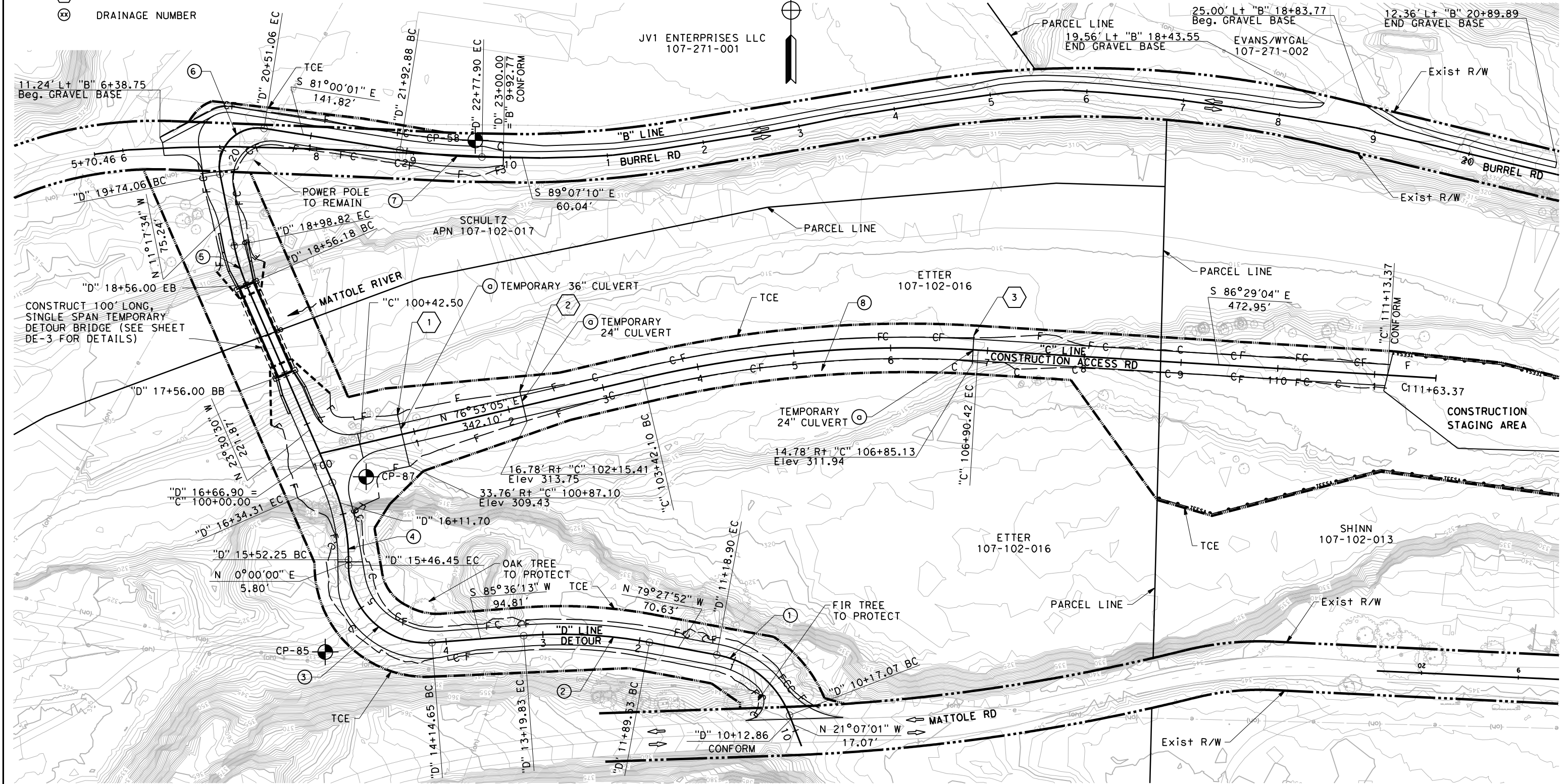


ROAD NAME: MATTOLE ROAD	MILE POST:
ROAD NO.: F30010	EA NO.: 01-279414L
FED PROJECT NO.: BRLS-5904(024)	CONTRACT NO.: 594055
PPNO.:	DRAWING FILE NAME:
PLOT DATE: 12-08-2023	REVISION DATE:

DESIGNED BY: KP	DRAWN BY: KB	REVIEWED BY: MS	APPROVED BY:
-----------------	--------------	-----------------	--------------

SURVEY CONTROL DATA

No.	NORTHING	EASTING	ELEV	LINE	STATION	OFFSET	DESCRIPTION
85	1979121.43	5967699.47	336.39	"D"	14+89.66	57.10' Lt	SPIKE
87	1979302.13	5967741.67	310.86	"D"	16+26.97	34.39' Rt	SPIKE
58	1979649.22	5967854.19	322.73	"D"	22+70.54	17.01' Lt	SPIKE



DATE PLOTTED => 12/11/2023 TIME PLOTTED => 11:23:48 AM USERNAME => kev.in.bei.tcn

NOTES:

1. THIS PLAN ACCURATE FOR TEMPORARY BRIDGE LAYOUT ONLY.
2. FOR UTILITY INFORMATION, SEE UTILITY SHEETS.
3. TEMPORARY BRIDGE INCLUDES TEMPORARY SHORING. REFER TO SPECIAL PROVISIONS FOR ADDITIONAL DETAILS

LEGEND:

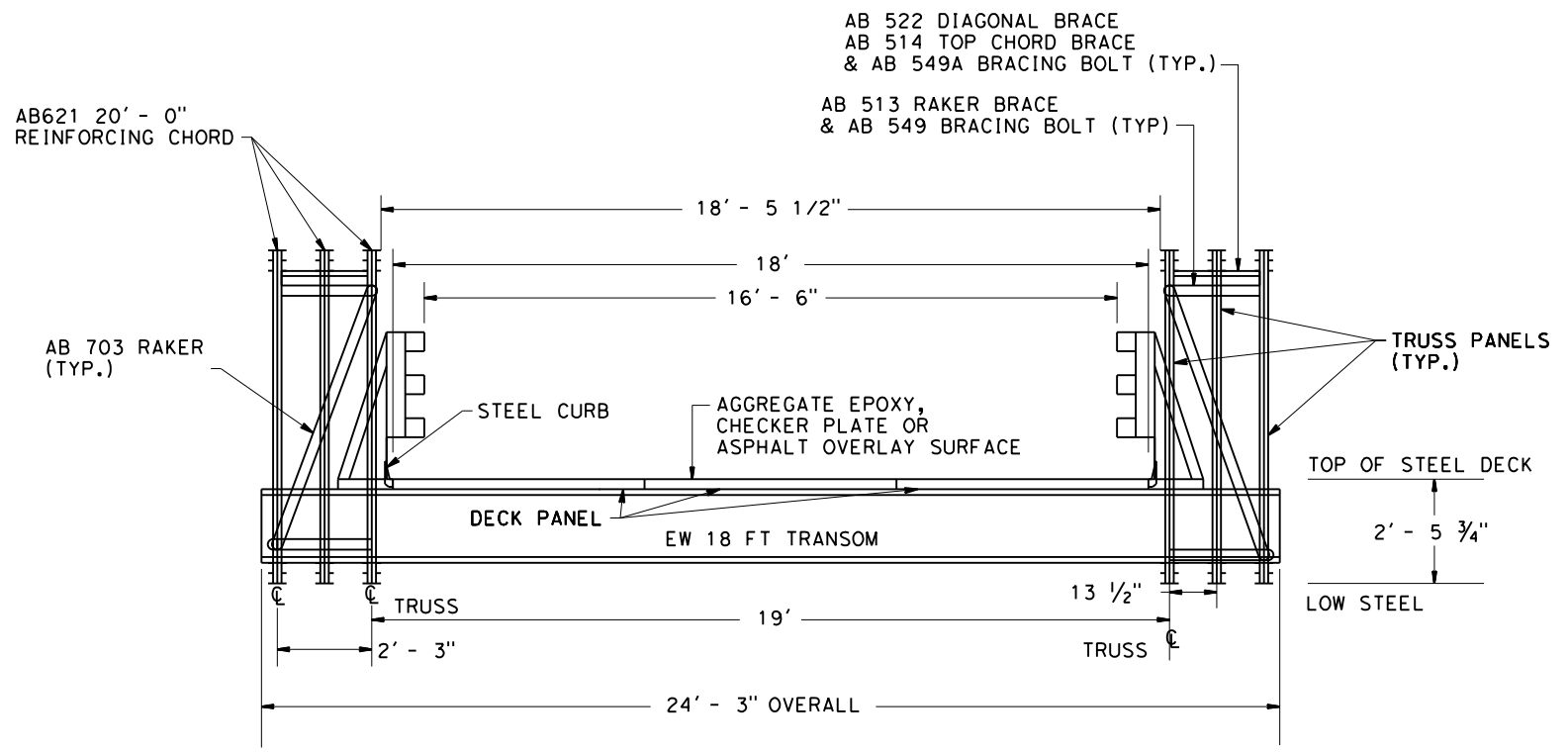
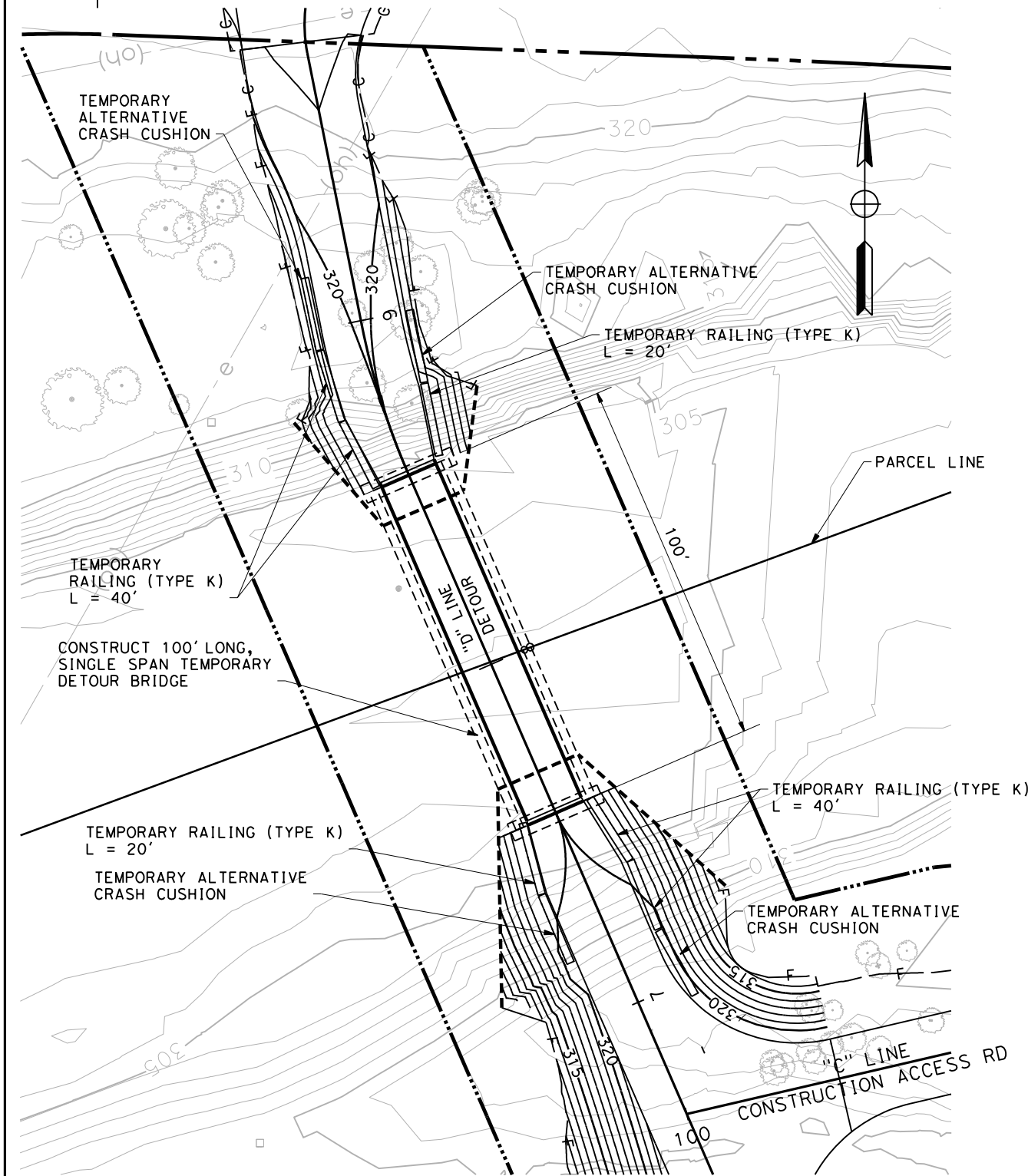
- ➔ DIRECTION OF TRAFFIC
- ⊗ CURVE DATA NUMBER
- ⊕ SURVEY CONTROL POINT



ROAD NAME: MATTOLE ROAD		DESIGNED BY: KP	
ROAD NO.: F30010	MILE POST:	DRAWN BY: KB	REVIEWED BY: MS
FED PROJECT NO.: BRLS-5904(024)	EA NO.: 01-279414L	APPROVED BY:	
CONTRACT NO.: 594055	PPNO.:		
DRAWING FILE NAME:			
PLOT DATE: 12-08-2023	REVISION DATE:		

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS MATTOLE ROAD AT MATTOLE RIVER BRIDGE REPLACEMENT PROJECT (AT HONEYDEW)
DETOUR LAYOUT SEASONS 1 AND 2

SHEET
27
OF
74



EXTRA WIDE 18 FT BRIDGE

SCALE: 1"=20' **DE-3**

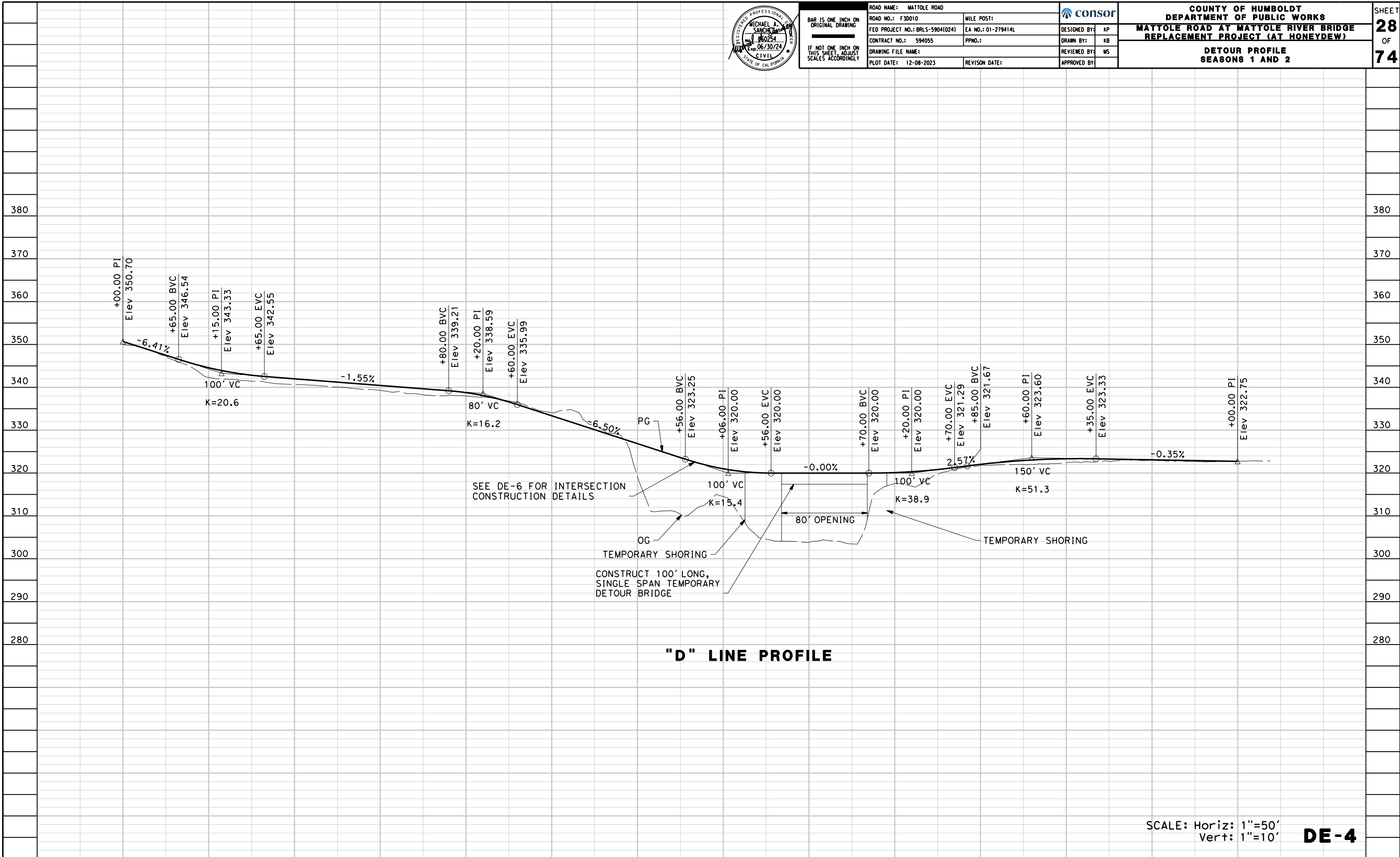


BAR IS ONE INCH ON ORIGINAL DRAWING
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

ROAD NAME: MATTOLE ROAD	MILE POST:
ROAD NO.: F30010	EA NO.: 01-279414L
FED PROJECT NO.: BRLS-5904(024)	PPNO.:
CONTRACT NO.: 594055	DRAWING FILE NAME:
PLOT DATE: 12-08-2023	REVISION DATE:

DESIGNED BY: KP
DRAWN BY: KB
REVIEWED BY: MS
APPROVED BY:

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 28 OF 74
MATTOLE ROAD AT MATTOLE RIVER BRIDGE REPLACEMENT PROJECT (AT HONEYDEW)	
DETOUR PROFILE SEASONS 1 AND 2	



SCALE: Horiz: 1"=50'
 Vert: 1"=10' **DE-4**

STATION	10+00	11+00	12+00	13+00	14+00	15+00	16+00	17+00	18+00	19+00	20+00	21+00	22+00	23+00	TOTAL
Exc															
Emb															



BAR IS ONE INCH ON ORIGINAL DRAWING

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

ROAD NAME: MATTOLE ROAD	MILE POST:
ROAD NO.: F30010	EA NO.: 01-279414L
FED PROJECT NO.: BRLS-5904(024)	PPNO.:
CONTRACT NO.: 594055	DRAWING FILE NAME:
PLOT DATE: 12-08-2023	REVISION DATE:

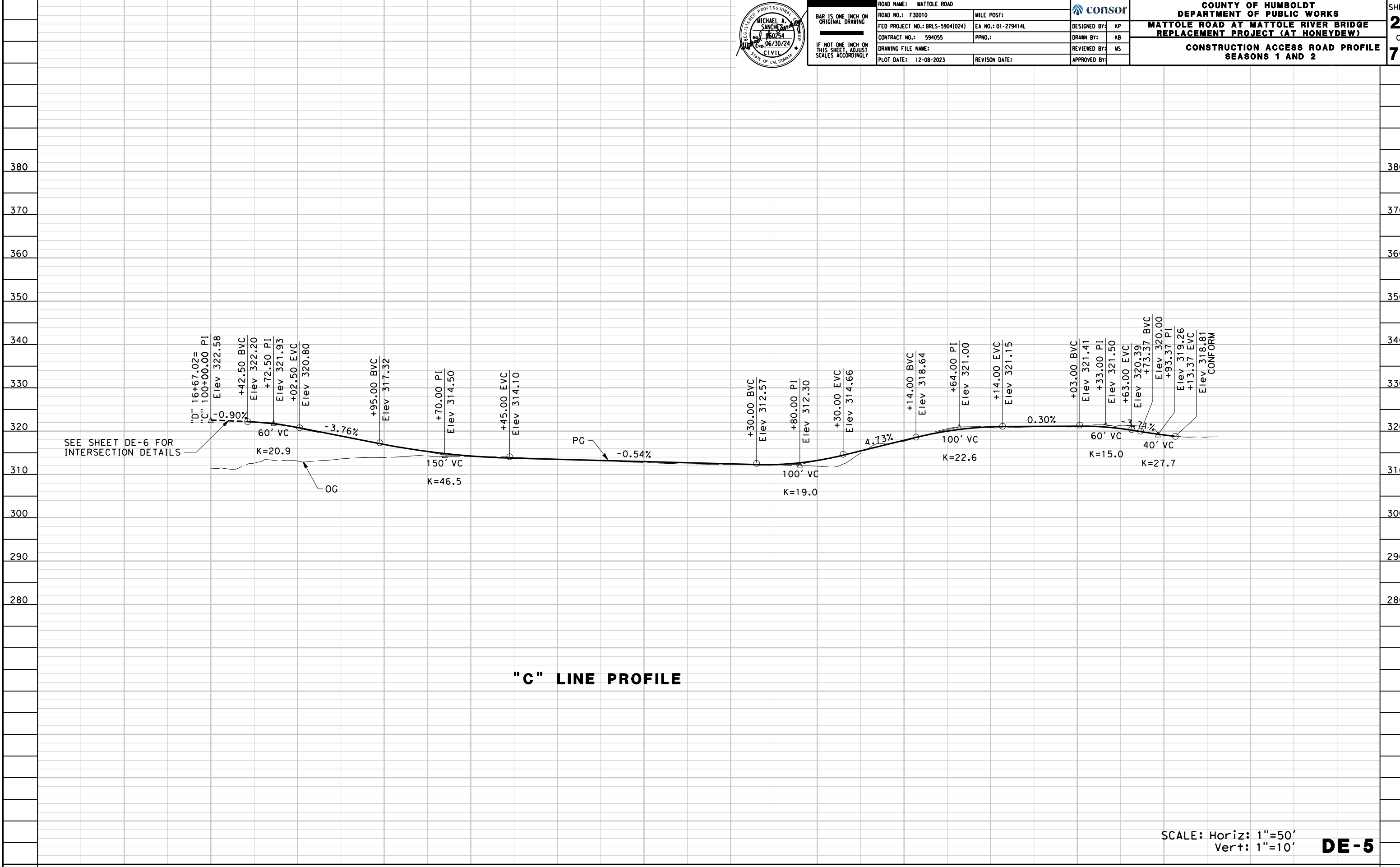
DESIGNED BY: KP
DRAWN BY: KB
REVIEWED BY: MS
APPROVED BY:

COUNTY OF HUMBOLDT
DEPARTMENT OF PUBLIC WORKS

**MATTOLE ROAD AT MATTOLE RIVER BRIDGE
REPLACEMENT PROJECT (AT HONEYDEW)**

**CONSTRUCTION ACCESS ROAD PROFILE
SEASONS 1 AND 2**

SHEET
29
OF
74



SCALE: Horiz: 1"=50'
Vert: 1"=10'

DE-5

STATION	99+00	100+00	101+00	102+00	103+00	104+00	105+00	106+00	107+00	108+00	109+00	110+00	111+00	112+00	113+00	TOTAL
Exc																
Emb																

NOTES:

- FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT THE COUNTY OFFICE.
- FOR UTILITY INFORMATION, SEE UTILITY SHEETS.

LEGEND:

(X) CURVE DATA NUMBER

CURVE DATA

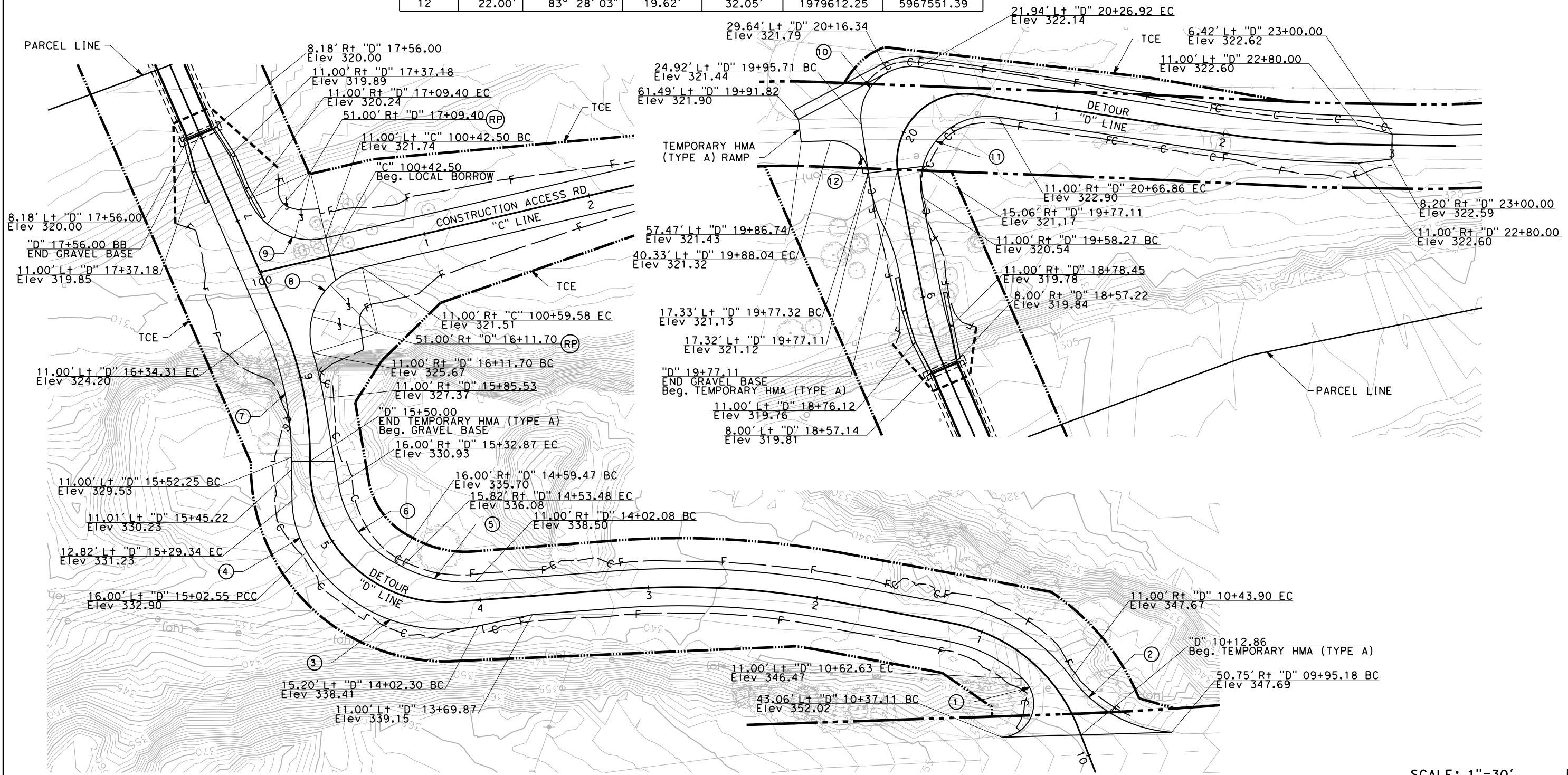
No.	R	Δ	T	L	RP NORTHING	RP EASTING
1	20.00'	134° 03' 00"	47.17'	46.79'	1979070.75	5968131.88
2	80.00'	49° 56' 10"	37.25'	69.72'	1979133.69	5968238.57
3	96.00'	70° 20' 36"	67.65'	117.86'	1979210.79	5967803.45
4	60.00'	30° 33' 30"	16.39'	32.00'	1979192.01	5967772.74
5	80.00'	32° 06' 02"	23.02'	44.82'	1979222.72	5967815.14
6	64.00'	52° 34' 18"	31.61'	58.72'	1979210.79	5967803.45
7	189.00'	23° 30' 30"	39.30'	77.55'	1979216.59	5967523.45
8	40.00'	93° 54' 55"	42.83'	65.57'	1979290.10	5967763.44
9	40.00'	79° 36' 25"	33.33'	55.58'	1979385.56	5967723.66
10	30.00'	107° 18' 45"	40.78'	56.19'	1979648.29	5967598.68
11	40.00'	110° 17' 27"	57.44'	77.00'	1979608.71	5967644.00
12	22.00'	83° 28' 03"	19.62'	32.05'	1979612.25	5967551.39



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

ROAD NAME: MATTOLE ROAD	MILE POST:	DESIGNED BY: KP
ROAD NO.: F30010	EA NO.: 01-279414L	DRAWN BY: KB
FED PROJECT NO.: BRLS-5904(024)	PPNO.:	REVIEWED BY: MS
CONTRACT NO.: 594055	DRAWING FILE NAME:	APPROVED BY:
PLOT DATE: 12-08-2023	REVISION DATE:	

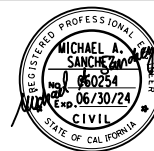
COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS		SHEET 30 OF 74
MATTOLE ROAD AT MATTOLE RIVER BRIDGE REPLACEMENT PROJECT (AT HONEYDEW)		
DETOUR DETAILS		



SCALE: 1"=30' **DE-6**

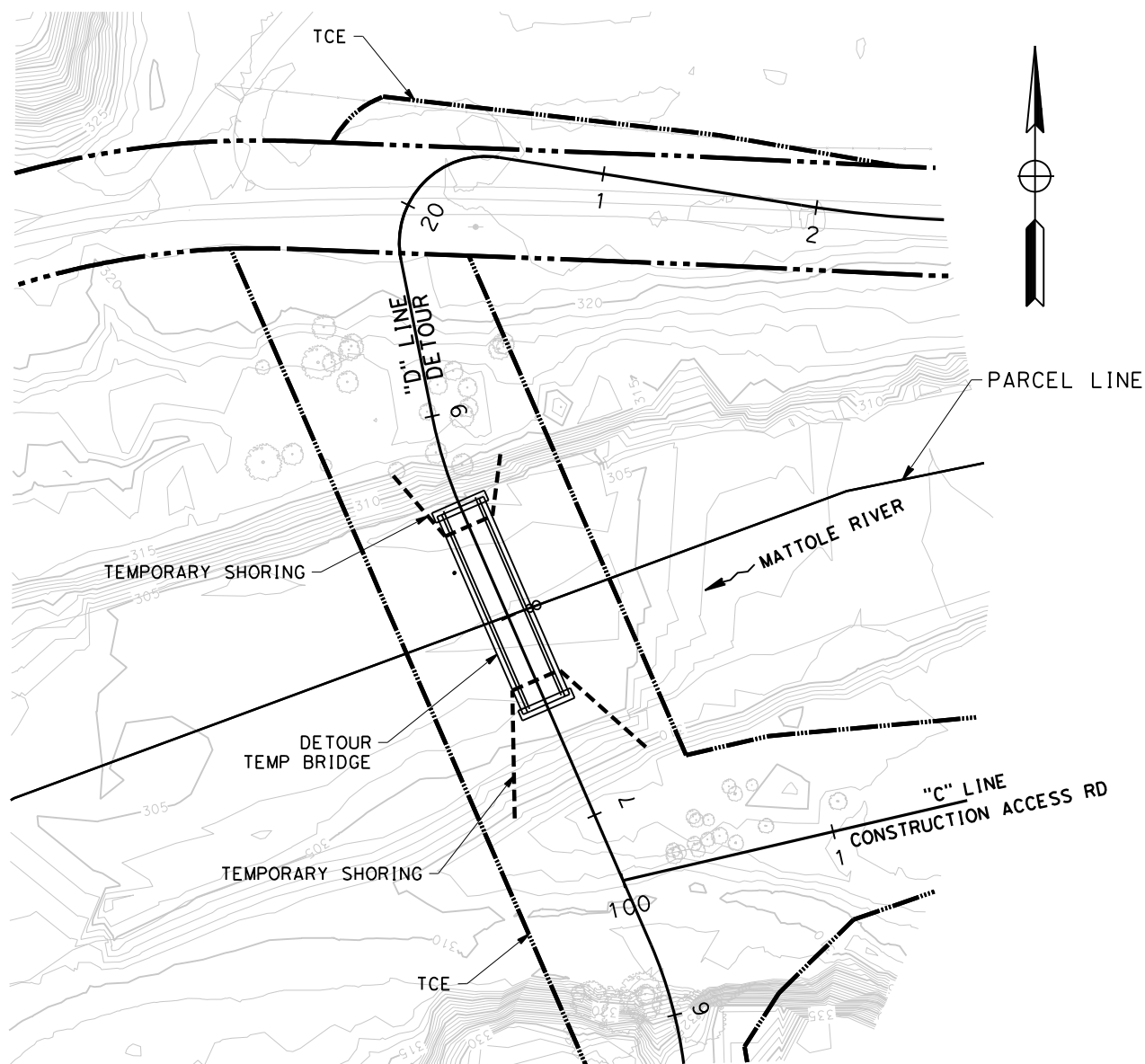
NOTES:

1. PRIOR TO PLACEMENT OF TEMPORARY SHORING, EXACT LOCATIONS TO BE VERIFIED IN THE FIELD BY CONTRACTOR AND APPROVED BY ENGINEER.



ROAD NAME: MATTOLE ROAD	MILE POST: XX	DESIGNED BY: KP
ROAD NO.: F30010	EA NO.: 01-279414L	DRAWN BY: KP
FED PROJECT NO.: BRLS-5904(024)	PPNO.:	REVIEWED BY: MS
CONTRACT NO.:	DRAWING FILE NAME:	APPROVED BY:
PLOT DATE: 12-08-2023	REVISION DATE:	

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 31 OF 74
MATTOLE ROAD AT MATTOLE RIVER BRIDGE REPLACEMENT PROJECT (AT HONEYDEW)	
TEMPORARY SHORING PLAN	

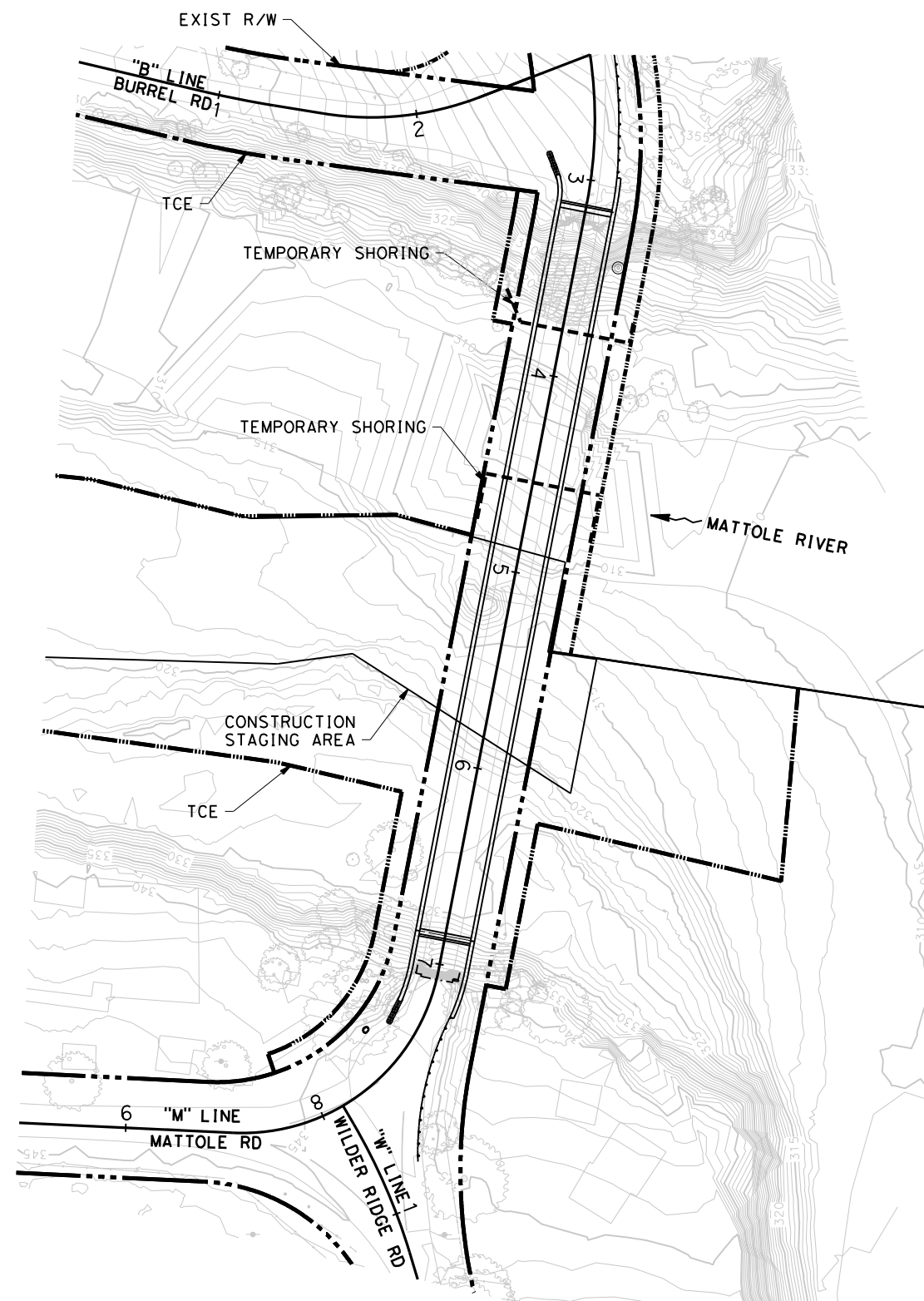


**TEMPORARY SHORING
AT DETOUR BRIDGE**

IN PLACE - SEASON 1
IN PLACE - SEASON 2

LEGEND:

- EXISTING RIGHT OF WAY
- PARCEL LINE
- TEMPORARY CONSTRUCTION EASEMENT (TCE) FOR CONSTRUCTION
- IMPLIED COMMON LAW DEDICATION
- TEMPORARY SHORING



**TEMPORARY SHORING AT
MATTOLE RIVER BRIDGE**

IN PLACE - SEASON 1

SCALE: 1"=40'

TS-1

USERNAME => kevin.BelDagie PLOTTED => 12/11/2023 TIME PLOTTED => 11:23:52 AM

NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT THE COUNTY OFFICE.

LEGEND:

- DIRECTION OF TRAFFIC
- PAVEMENT DELINEATION DETAIL (THERMOPLASTIC TRAFFIC STRIPE)
- ROADSIDE SIGN (ONE POST)
- BEGIN, END, OR CHANGE OF STRIPING DETAIL
- 12" LIMIT LINE W/ LENGTH (THERMOPLASTIC PAVEMENT MARKING)

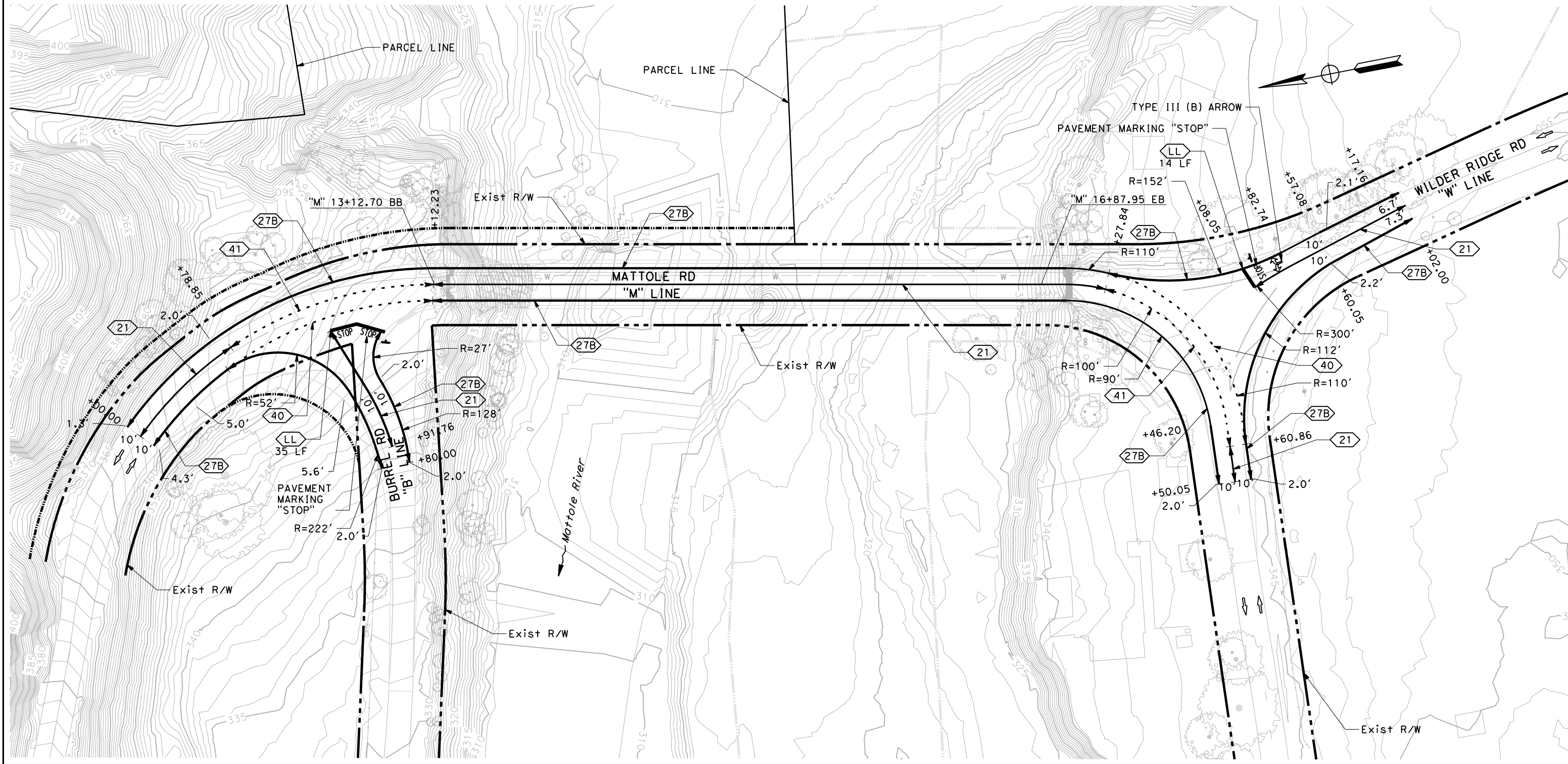


ROAD NAME: MATTOLE ROAD		MILE POST:	
ROAD NO.: F30010	FED PROJECT NO.: BRLS-5904(024)	EA NO.: 01-279414L	
CONTRACT NO.: 594055	PPNO.:		
DRAWING FILE NAME:			
PLOT DATE: 12-08-2023	REVISION DATE:		

DESIGNED BY: KP	
DRAWN BY: KB	
REVIEWED BY: MS	
APPROVED BY:	

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	
MATTOLE ROAD AT MATTOLE RIVER BRIDGE REPLACEMENT PROJECT (AT HONEYDEW)	
PAVEMENT DELINEATION	

SHEET **32**
OF
74



SCALE: 1"=30' **PD-1**

NOTES:

1. THIS PLAN ACCURATE FOR SIGN WORK ONLY.

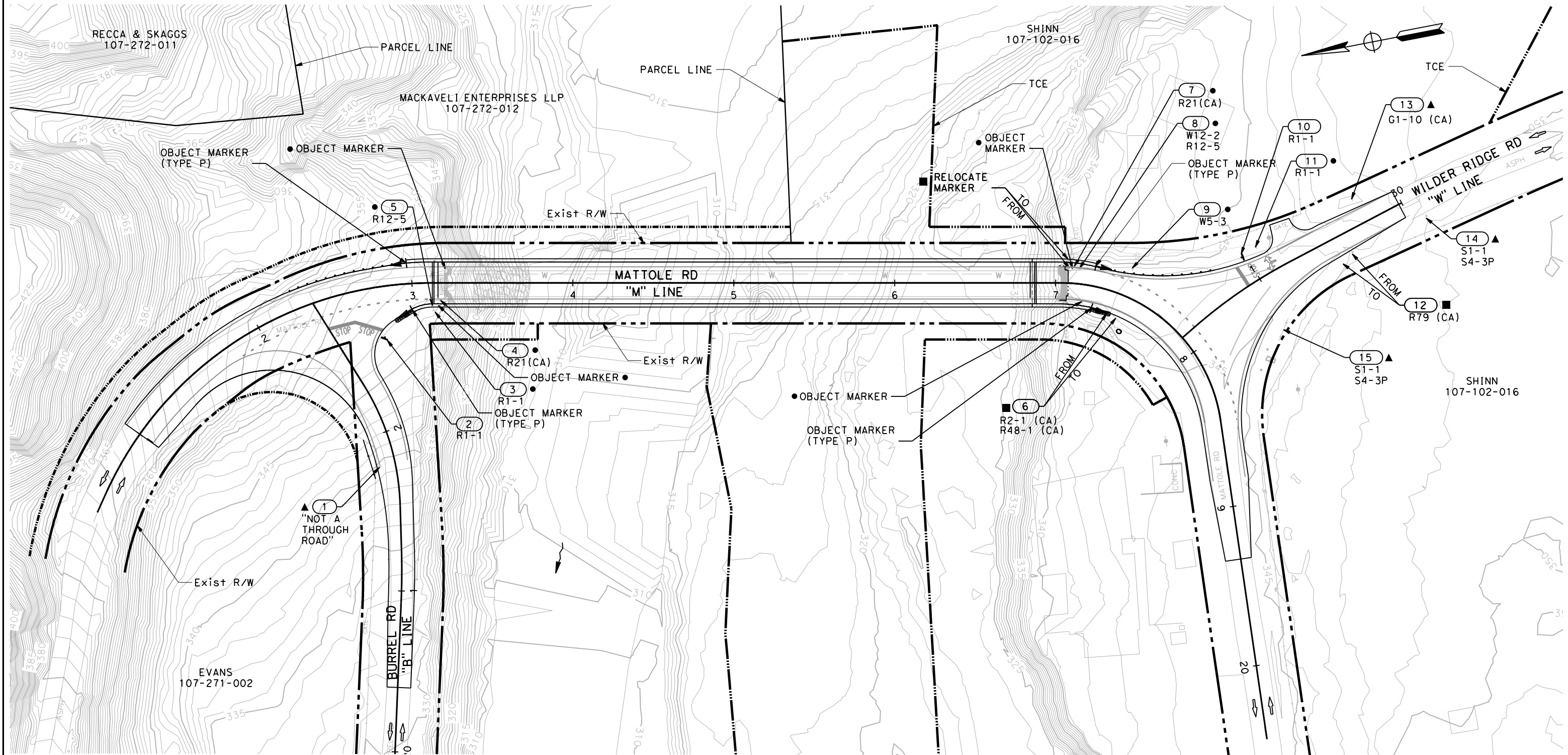


ROAD NAME: MATTOLE ROAD	DESIGNED BY: KP
ROAD NO.: F30010	WILE POST: EA NO.: 01-279414L
FED PROJECT NO.: BRLS-5904(024)	CONTRACT NO.: 594055
PPNO.:	DRAWN BY: KB
DRAWING FILE NAME:	REVIEWED BY: MS
PLOT DATE: 12-08-2023	APPROVED BY:
REVISION DATE:	

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS MATTOLE ROAD AT MATTOLE RIVER BRIDGE REPLACEMENT PROJECT (AT HONEYDEW)	SHEET 33 OF 74

LEGEND:

- ▲ EXISTING ROADSIDE SIGN TO REMAIN
- RELOCATE ROADSIDE SIGN
- REMOVE ROADSIDE SIGN
- ↑ ROADSIDE SIGN SINGLE POST
- ▶ OBJECT MARKER (TYPE P)
- ⓧ ROADSIDE SIGN (SIGN NUMBER) W/ SIGN CODE(S) CODE(S)



SCALE: 1"=30'

S-1



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

ROAD NAME: MATTOLE ROAD	WILE POST:
ROAD NO.: F30010	EA NO.: 01-279414L
FED PROJECT NO.: BRLS-5904(024)	PPNO.:
CONTRACT NO.: 594055	DRAWING FILE NAME:
PLOT DATE: 12-08-2023	REVISION DATE:

DESIGNED BY: KP
DRAWN BY: KB
REVIEWED BY: MS
APPROVED BY:

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
MATTOLE ROAD AT MATTOLE RIVER BRIDGE REPLACEMENT PROJECT (AT HONEYDEW)
SIGN QUANTITIES

SHEET
34
OF
74

ROADSIDE SIGNS

SIGN	SIGN CODE		FROM			TO			SIGN MESSAGE	PANEL SIZE INCH	ROADSIDE SIGN - ONE POST EA	REMOVE ROADSIDE SIGN EA	RELOCATE ROADSIDE SIGN - EA	SIGN TO REMAIN EA	COMMENTS
	FEDERAL	CA	LINE	FROM	OFFSET	LINE	TO	OFFSET							
1			"B"	21+80	Lt				"NOT A THROUGH ROAD"					1	
2	R1-1		"B"	22+60	Rt				"STOP"	36 x 36	1				
3	R1-1		"M"	13+08	Rt				"STOP"			1			
4		R21	"M"	13+10	Rt				"15 MPH ON BRIDGE FOR VEHICLES OVER 10 TONS"			1			
5	R12-5		"M"	13+08	Rt				"WEIGHT LIMIT 25T 34T 30T"			1			
6		R2-1	"M"	17+18	Rt	"M"	17+23	Rt	"SPEED LIMIT 25"				1		ATTACHED TO SAME POST (ONE POST)
		R48-1							"RADAR ENFORCED"						
7		R21	"M"	17+08	Lt				"15 MPH ON BRIDGE FOR VEHICLES OVER 10 TONS"			1			
8	W12-2		"M"	17+10	Lt				"14' "			1			ATTACHED TO SAME POST (ONE POST)
	R12-5								"WEIGHT LIMIT 25T 34T 30T"						
9	W5-3		"M"	17+18	Lt				"ONE LANE BRIDGE"			1			
10	R1-1		"W"	31+01	Rt				"STOP"	36 x 36	1				
11	R1-1		"W"	30+97	Rt				"STOP"			1			
12		R79	"W"	30+41	Lt	"W"	30+45	Lt	"AUTOS & PICKUPS SNOW TIRES OK CARRY CHAINS"				1		
13		G1-10	"W"	30+36	Rt				"US 101 PETROLIA 15 FERNDALE 45"					1	
14	S1-1		"W"	29+95	Lt				-					1	ATTACHED TO SAME POST (ONE POST)
	S4-3P								"SCHOOL"						
15		G1-13	"W"	31+01	Lt				"PETROLIA 15 FERNDALE 45 ETTERSBURG 16"					1	ATTACHED TO SAME POST (TWO POST)
		G1-10							"KING RANGE CONSERVATION AREA SMITH - ETTER RD 2 NORTH OF MATTOLE 15"						
TOTAL											2	7	2	4	



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

ROAD NAME: MATTOLE ROAD	MILE POST:
ROAD NO.: F30010	EA NO.: 01-279414L
FED PROJECT NO.: BRLS-5904(024)	PPNO.:
CONTRACT NO.: 594055	DRAWING FILE NAME:
PLOT DATE: 12-08-2023	REVISION DATE:

DESIGNED BY: KP
DRAWN BY: KB
REVIEWED BY: MS
APPROVED BY:

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
MATTOLE ROAD AT MATTOLE RIVER BRIDGE REPLACEMENT PROJECT (AT HONEYDEW)
SUMMARY OF QUANTITIES

SHEET
36
OF
74

EROSION CONTROL QUANTITIES

LINE	FROM		TO			ACRE	EA	SQYD	SQFT	SQYD	SQFT	SQFT	SQYD	SQYD	SQFT	CY	LF	LF	SQFT	LF	LF	SQFT	SQFT	CY	COMMENTS	
	FROM	OFFSET	LINE	TO	OFFSET																					
	ENTIRE PROJECT		ENTIRE PROJECT				138										361	12532		12172	12172					
"M"	10+00	Rt	"B"	20+40	Lt				519		519															
"M"	10+52	Lt	"M"	13+23	Lt				1385		1385															
"M"	16+60	Lt	"W"	30+82	Rt				1470		1470															
"M"	16+60	Rt	"M"	17+79	Rt				760		760															
"M"	17+36.00	Lt	"W"	31+00	Rt							422							422					23	DS-2	
"M"	18+25	Rt	"M"	18+61	Lt							300							300					17	DS-4	
"M"	18+61	Lt	"M"	19+33	Lt				264		264															
"B"	20+40	Rt	"B"	21+80	Rt				1341		1341															
"B"	21+80	Rt	"M"	13+10	Rt				1155		1155															
"B"	22+00	Rt	"B"	22+40	Rt							393							393					22	DS-5	
"B"	22+24.4	Lt	"B"	22+61.2	Lt							309							309					17	DS-1	
"W"	30+02	Lt	"W"	30+60	Lt																					
"W"	30+02	Rt	"W"	30+64	Rt				258		258															
"W"	30+02	Lt	"M"	19+33	Rt				628		628															
"W"	30+60	Lt	"W"	31+15	Lt							466							466					26	DS-3	
"W"	31+20	Lt	"W"	31+38	Lt																					
"D"	10+12.86	Lt/Rt	"D"	15+90	Lt/Rt	4.41		1009	3024	1009	3024			19205	1009	3024						172845	192003		DETOUR SOUTH	
"D"	19+10	Lt/Rt	"D"	23+00	Lt/Rt	0.39		241		241				1745	241							15708	17004		DETOUR NORTH	
TOTAL						4.80	138	1250	10804	1250	10804	1890		20950	1250	12694	70	361	12532	1890	12172	12172	188553	209007	105	

SIGNING AND STRIPING QUANTITIES

LINE	FROM		TO			OBJECT MARKER (TYPE P)	THERMOPLASTIC TRAFFIC STRIPE		RELOCATE MARKER	REMOVE OBJECT MARKER	ROADSIDE SIGN - ONE POST	REMOVE ROADSIDE SIGN	RELOCATE ROADSIDE SIGN	ROADSIDE SIGN - ONE POST	THERMOPLASTIC PAVEMENT MARKING	COMMENTS
	FROM	OFFSET	LINE	TO	OFFSET		EA	LF								
"M"	BB	Lt/Rt				2										REFER TO SHEET S-1
"M"	EB	Lt/Rt				2										REFER TO SHEET S-1
"M"	11+00	Rt	"B"	21+80	Lt		1889	WHITE	SOLID							27B
"M"	11+00		"M"	11+78.85			704	YELLOW	DOUBLE							21
"M"	11+78.85		"M"	13+12.23			267	YELLOW	DASHED							41
"M"	11+78.85	Rt	"M"	13+12.23	Rt		258	WHITE	DASHED							40
"M"	12+41.29	Rt	"M"	12+77.69	Rt										35	LIMIT LINE
"M"	12+50	Rt	"M"												22	"STOP"
"M"	12+67	Rt	"M"												22	"STOP"
"W"	30+88		"W"												35	ARROW
"W"	31+00		"W"												22	"STOP"
"W"	31+08		"W"												14	LIMIT LINE
TOTAL						4	3117								150	

NOTES:

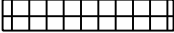

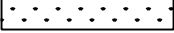
1. THIS PLAN ACCURATE FOR EROSION CONTROL WORK ONLY.
2. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT THE COUNTY OFFICE.
3. LOCATION OF FIBER ROLLS ARE SCHEMATIC. ACTUAL PLACEMENT LOCATIONS OF FIBER ROLLS SHALL BE IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
4. EROSION CONTROL (HYDROSEED) SHALL NOT BE PLACED WITHIN ACTIVE RIVER.
5. FOR PLANTING ZONE SEED MIX, SEE DRAINAGE DETAILS.

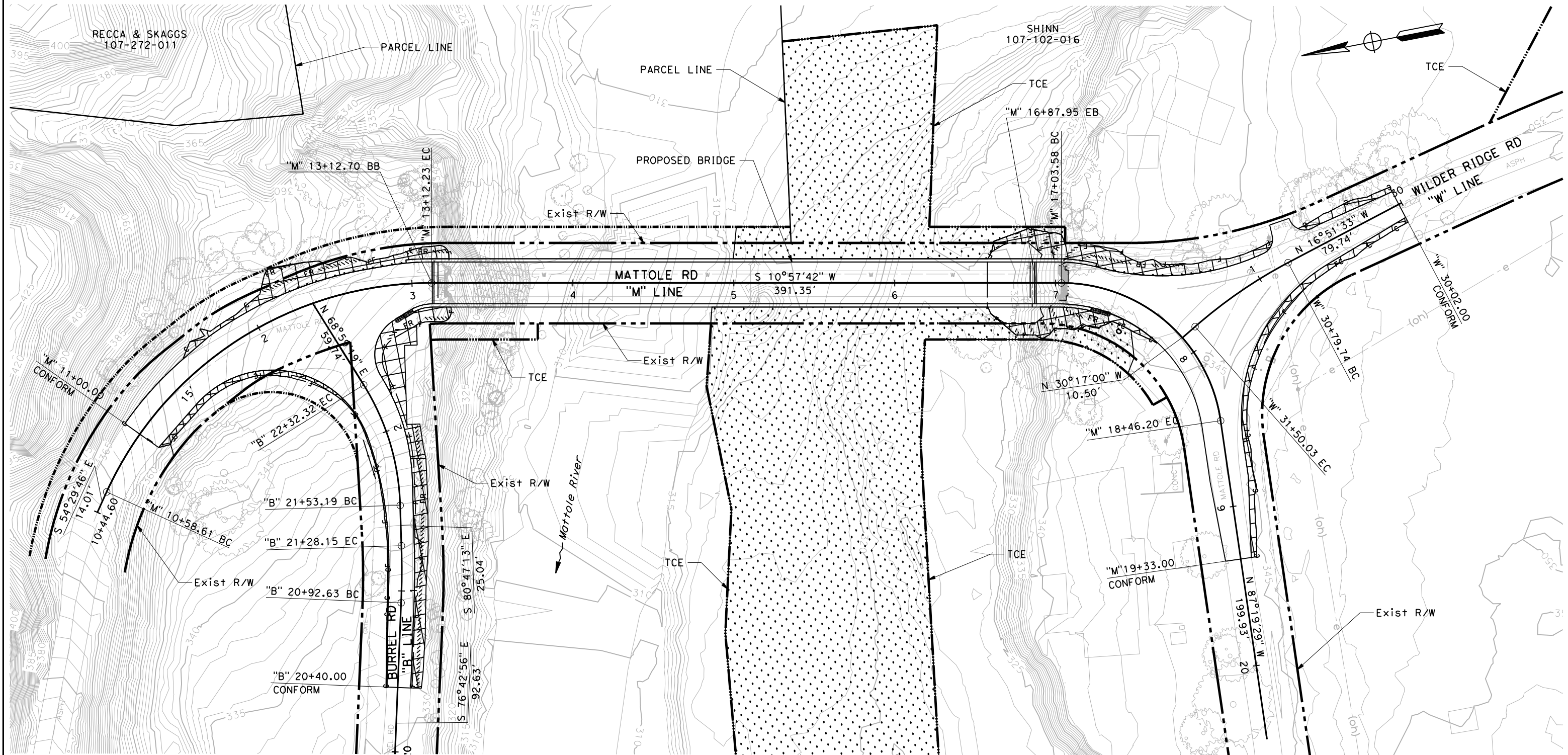


ROAD NAME: MATTOLE ROAD	DESIGNED BY: KP
ROAD NO.: F30010	MILE POST:
FED PROJECT NO.: BRLS-5904(024)	EA NO.: 01-279414L
CONTRACT NO.: 594055	PPNO.:
DRAWING FILE NAME:	REVIEWED BY: MS
PLOT DATE: 12-08-2023	REVISION DATE:
	APPROVED BY:

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 37
MATTOLE ROAD AT MATTOLE RIVER BRIDGE REPLACEMENT PROJECT (AT HONEYDEW)	OF
PERMANENT EROSION CONTROL PLAN SEASON 2 AFTER CONSTRUCTION	74

LEGEND:

-  EROSION CONTROL (TYPE 1)
-  FR FIBER ROLL
-  EROSION CONTROL (TYPE 2)






SCALE: 1"=30' **EC-1**


NOTES:

1. THIS PLAN ACCURATE FOR TEMPORARY DETOUR ROADWAY LAYOUT ONLY.
2. FOR UTILITY INFORMATION, SEE UTILITY SHEETS.

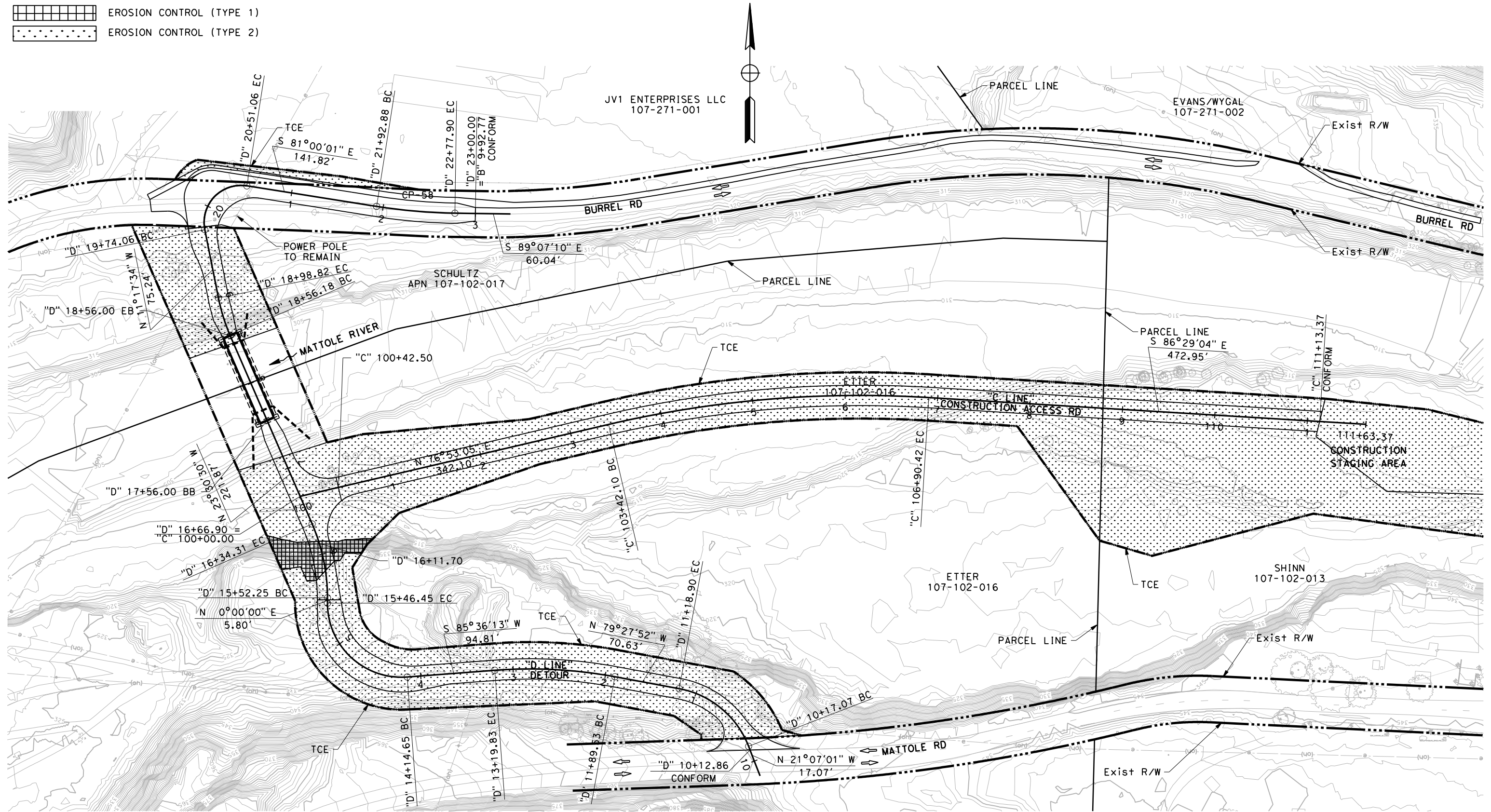
LEGEND:

-  DIRECTION OF TRAFFIC
-  EROSION CONTROL (TYPE 1)
-  EROSION CONTROL (TYPE 2)



ROAD NAME: MATTOLE ROAD			
ROAD NO.: F30010	MILE POST:	DESIGNED BY: KP	
FED PROJECT NO.: BRLS-5904(024)	EA NO.: 01-279414L	DRAWN BY: KB	
CONTRACT NO.: 594055	PPNO.:	REVIEWED BY: MS	
DRAWING FILE NAME:		APPROVED BY:	
PLOT DATE: 12-08-2023	REVISION DATE:		

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS MATTOLE ROAD AT MATTOLE RIVER BRIDGE REPLACEMENT PROJECT (AT HONEYDEW) PERMANENT EROSION CONTROL PLAN SEASON 2 AFTER CONSTRUCTION	SHEET
	38
	OF
	74



SCALE: 1"=50' **EC-2**



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

ROAD NAME: MATTOLE ROAD	MILE POST:	DESIGNED BY: KP
ROAD NO.: F30010	EA NO.: 01-279414L	DRAWN BY: KB
FED PROJECT NO.: BRLS-5904(024)	PPNO.:	REVIEWED BY: MS
CONTRACT NO.: 594055	DRAWING FILE NAME:	APPROVED BY:
PLOT DATE: 12-08-2023	REVISION DATE:	



COUNTY OF HUMBOLDT
 DEPARTMENT OF PUBLIC WORKS
**MATTOLE ROAD AT MATTOLE RIVER BRIDGE
 REPLACEMENT PROJECT (AT HONEYDEW)**
 EROSION CONTROL DETAILS

SHEET
39
 OF
74

EROSION CONTROL (TYPE 1)

SEQUENCE	ITEM	MATERIAL		APPLICATION RATE	REMARKS
		DESCRIPTION	TYPE		
STEP 1	RECP (NETTING)	COIR NETTING	TYPE B		
STEP 2	HYDROSEED (MIX 1)	SEED	MIX 1	62 LBS/AC	
		FIBER	FIBER	500 LBS/AC	
STEP 3	HYDROMULCH	FIBER	WOOD	4000 LBS/AC	
		TACKIFIER	PSYLLIUM	400 LBS/AC	
STEP 4	FIBER ROLLS	FIBER ROLL	8 TO 10 INCHES IN Dia		TYPE 2 INSTALLATION

HYDROSEED MIX 1

BOTANICAL NAME (COMMON NAME)	POUNDS PURE LIVE SEED PER ACRE (SLOPE MEASUREMENT)
WESTERN YARROW (ACHILLEA MILLEFOLIUM)	1
CALIFORNIA BROME (BROMUS CARINATUS)	25
CALIFORNIA BUCKWHEAT (ERIOGONUM FASCICULATUM)	25
GOLDEN YARROW (ERIOPHYLLUM CONFERTIFLORUM)	3
DEERWEED (ACMISPON GLABER)	8
TOTAL	62

EROSION CONTROL (TYPE 2)

SEQUENCE	ITEM	MATERIAL		APPLICATION RATE	REMARKS
		DESCRIPTION	TYPE		
STEP 1	HYDRAULIC BIOTIC GROWTH MEDIUM	SEED	MIX 2	62 LBS/AC	
		HBCM		3500 LBS/AC	
STEP 2	FIBER REINFORCED MATRIX	FRM		2500 LBS/AC	

NO SCALE

ECD-1

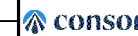
NOTES:

1. UNDERLINED PORTIONS OF BOTANICAL NAME INDICATE ABBREVIATIONS USED ON PLANTING PLANS.
2. IN WETLAND AREA, RANDOMLY MIX PLANT SPECIES IN A TRIANGULAR SPACING PATTERN



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ROAD NAME: MATTOLE ROAD	DESIGNED BY: KP
ROAD NO.: F30010	MILE POST:
FED PROJECT NO.: BRLS-5904(024)	EA NO.: 01-279414L
CONTRACT NO.: 594055	PPNO.:
DRAWING FILE NAME:	REVIEWED BY: MS
PLOT DATE: 12-08-2023	APPROVED BY:
REVISION DATE:	



COUNTY OF HUMBOLDT
 DEPARTMENT OF PUBLIC WORKS
**MATTOLE ROAD AT MATTOLE RIVER BRIDGE
 REPLACEMENT PROJECT (AT HONEYDEW)**

SHEET
40
 OF
74

PLANTING LEGEND

PLANTING REQUIREMENTS

- | | |
|---|--------------------------------------|
| ① - QUANTITIES SHOWN ARE "PER PLANT" UNLESS SHOWN AS SOFT OR SOYD APPLICATION RATES | ⑤ - FOLIAGE PROTECTOR REQUIRED |
| ② - SUFFICIENT TO RECEIVE ROOT BALL AND AMENDMENTS | ⑥ - PLANT IDENTIFIER STAKES REQUIRED |
| ③ - WOOD MULCH MUST BE WOOD CHIP | |
| ④ - SOIL AMENDMENT MUST BE FINE COMPOST | |

PLANT LEGEND

PLANT GROUP (SIZE)	PLANT No.	SYMBOL	BOTANICAL NAME	COMMON NAME	HOLE SIZE		BASIN TYPE	WOOD MULCH CF	APP RATES		MIN. ON CENTER SPACING FT	QUANTITY EA	REMARKS
					DIAMETER	DEPTH			ORGANIC FERTILIZER OZ	SOIL AMENDMENT CF			
					INCH	INCH							
I (TREEPOT)	1	AR	<u>ALNUS</u> RHOMBIFOLIA	WHITE ALDER	12	②	II	0.87	3	0.15	12	93	TREE ⑤⑥
I (TREEPOT)	2	COT	<u>POPULUS</u> FREMONTII SSP FREMONTII	FREMONT COTTONWOOD	12	②	II	0.87	3	0.15	12	21	TREE ⑤⑥
I (TREEPOT)	3	—	<u>SALIX</u> LAEVIGATA	RED WILLOW	12	②	II	0.87	3	0.15	7	12	TREE ⑤⑥
I (TREEPOT)	4	○	<u>SALIX</u> LASIANDRA	PACIFIC WILLOW	12	②	II	0.87	3	0.15	12	12	TREE ⑤⑥

SCALE: 1"=30'

PL-1

NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT THE COUNTY OFFICE



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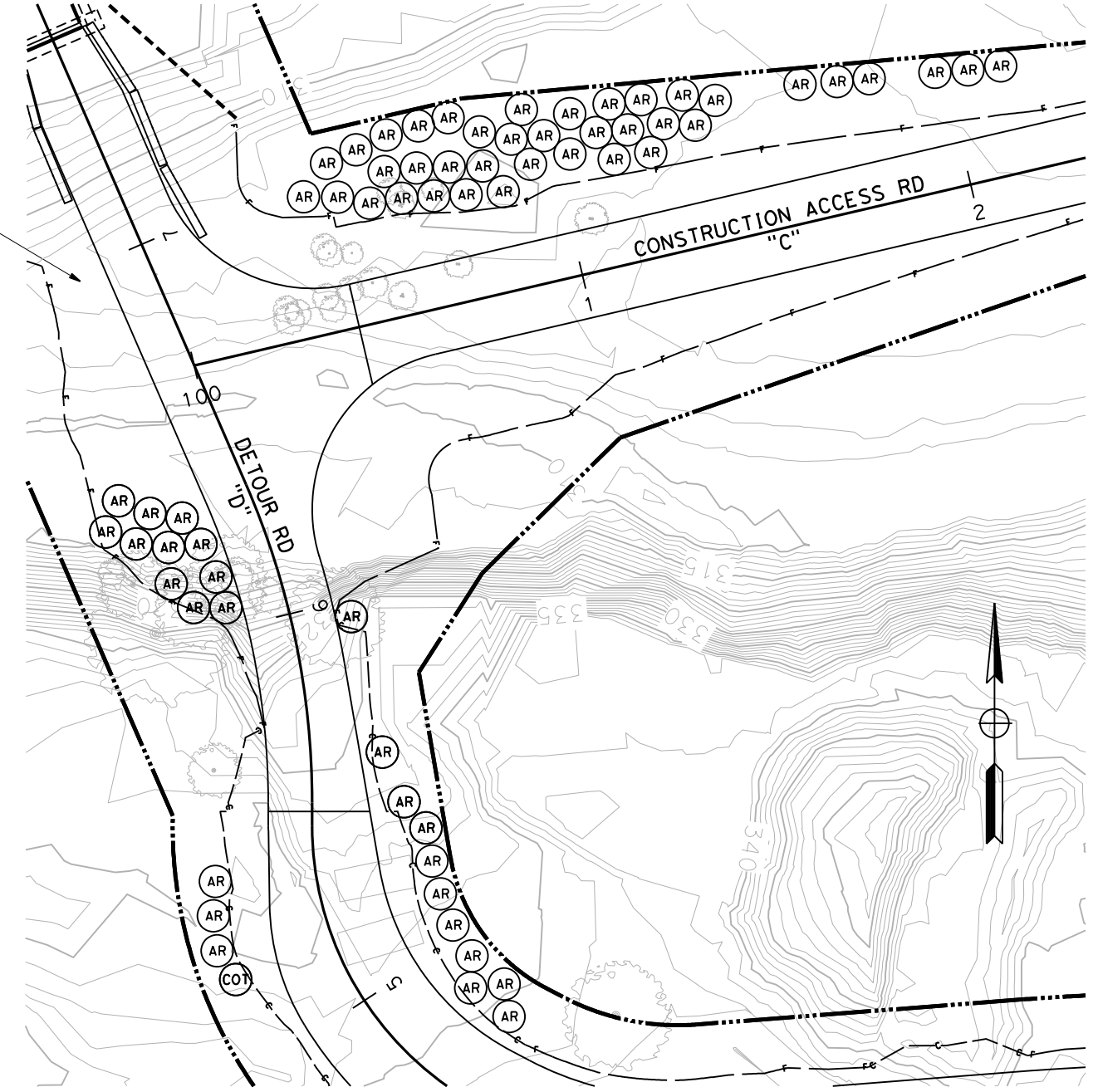
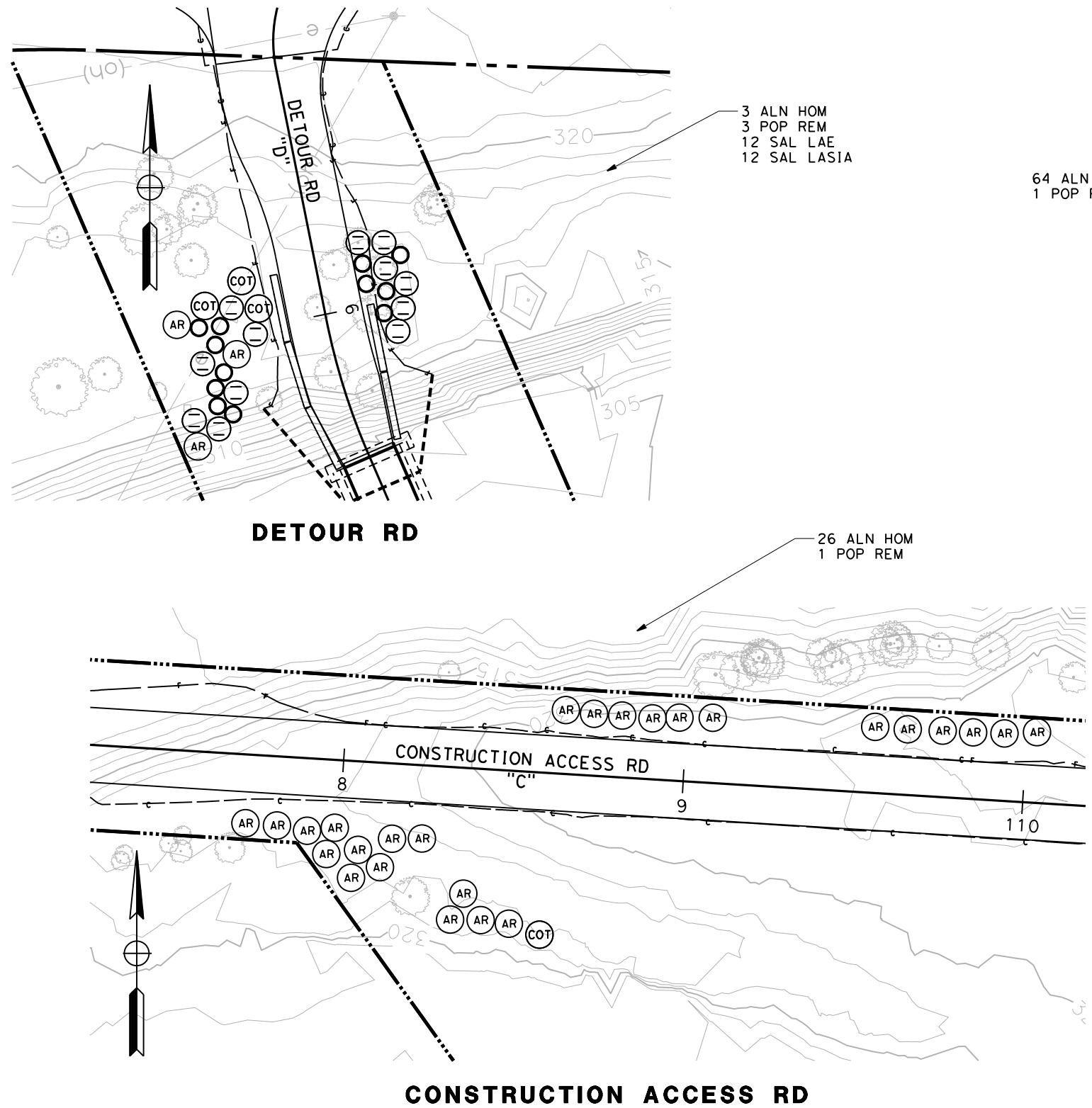
ROAD NAME: MATTOLE ROAD	MILE POST:
ROAD NO.: F30010	EA NO.: 01-279414L
FED PROJECT NO.: BRLS-5904(024)	PPNO.:
CONTRACT NO.: 594055	DRAWING FILE NAME:
PLOT DATE: 12-08-2023	REVISION DATE:

consor	
DESIGNED BY: KP	DRAWN BY: KB
REVIEWED BY: MS	APPROVED BY:

COUNTY OF HUMBOLDT
DEPARTMENT OF PUBLIC WORKS
**MATTOLE ROAD AT MATTOLE RIVER BRIDGE
REPLACEMENT PROJECT (AT HONEYDEW)**

PLANTING PLAN

SHEET
41
OF
74



DETOUR RD

CONSTRUCTION ACCESS RD

SCALE: 1"=20'

PP-1

NOTES:

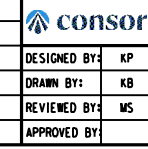
- FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT THE COUNTY OFFICE



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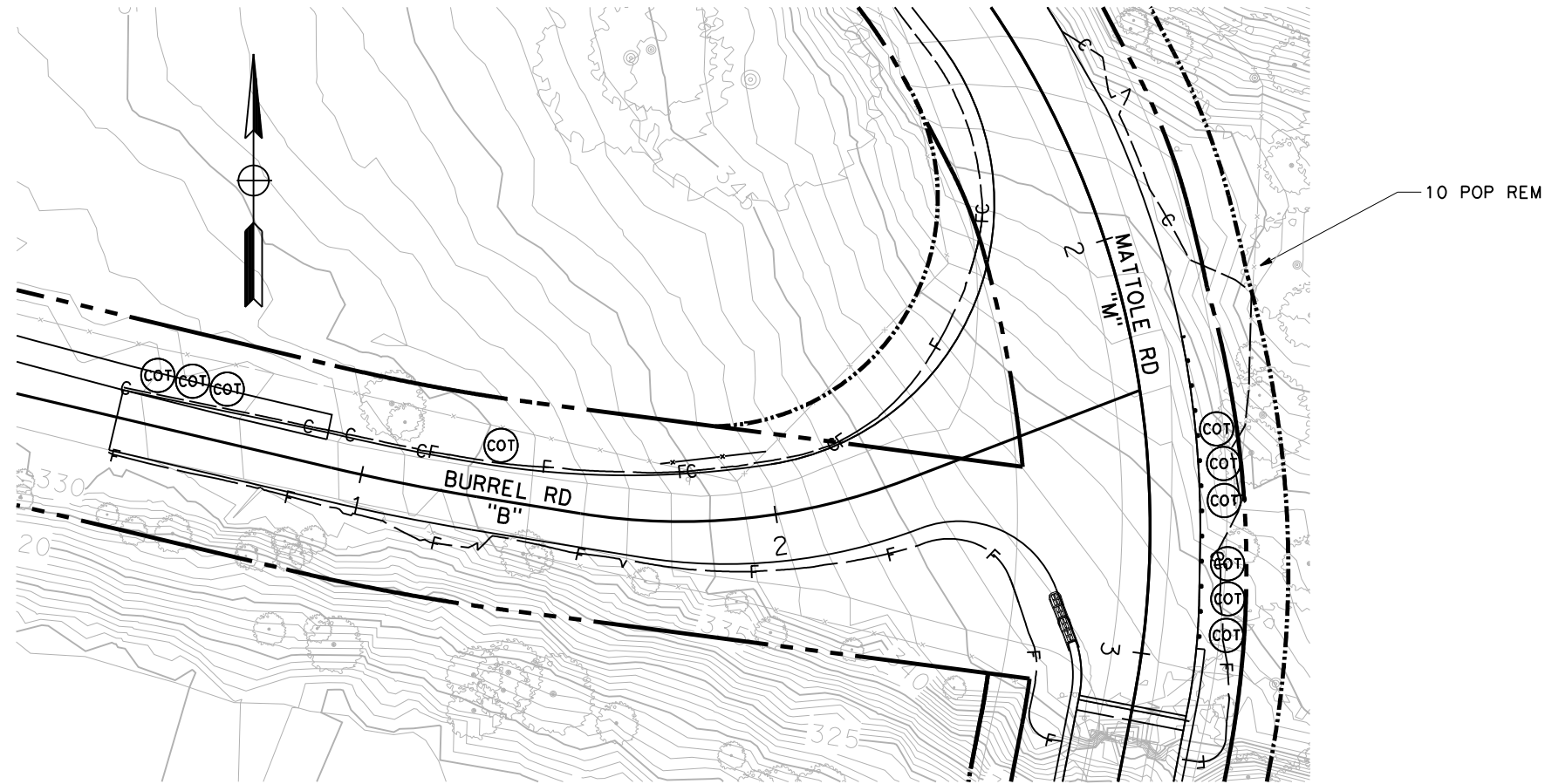
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ROAD NO.: F30010	EA NO.: 01-279414L
FED PROJECT NO.: BRLS-5904(024)	CONTRACT NO.: 594055
CONTRACT NO.: 594055	PPNO.:
DRAWING FILE NAME:	PLOT DATE: 12-08-2023
REVISION DATE:	DESIGNED BY: KP
APPROVED BY:	DRAWN BY: KB
	REVIEWED BY: MS

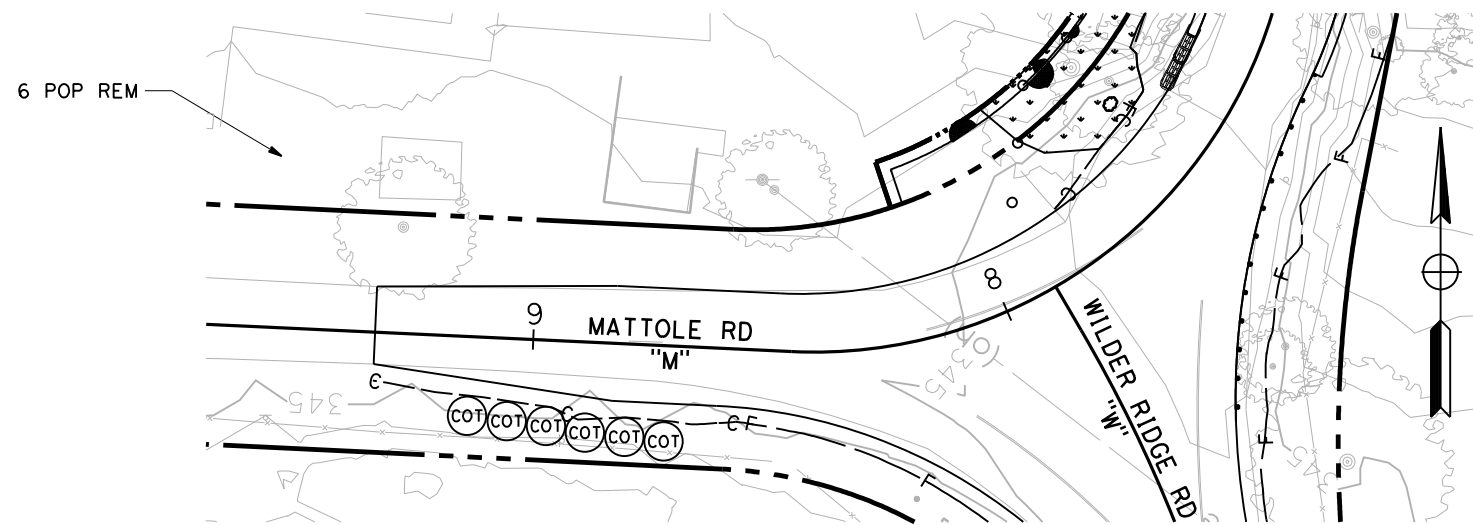


COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
MATTOLE ROAD AT MATTOLE RIVER BRIDGE REPLACEMENT PROJECT (AT HONEYDEW)
PLANTING PLAN

SHEET
42
OF
74



NORTH SIDE MATTOLE RD

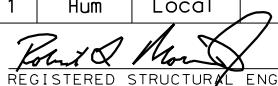


SOUTH SIDE MATTOLE RD

SCALE: 1"=20'

PP-2

DIST	COUNTY	ROUTE	POST MILE TOTAL PROJECT	SHEET No	TOTAL SHEETS
1	Hum	Local		44	74


 REGISTERED STRUCTURAL ENGINEER
 No. S3577
 Exp. 3-31-25
 STATE OF CALIFORNIA

12/8/2023
 PLANS APPROVAL DATE

Prepared by:
 MORRISON STRUCTURES, INC.
 1890 PARK MARINA DRIVE, SUITE 104
 REDDING, CALIFORNIA 96001

Prepared for:
 HUMBOLDT COUNTY PUBLIC WORKS DEPARTMENT
 1106 2nd STREET
 EUREKA, CALIFORNIA 95501

INDEX TO PLANS

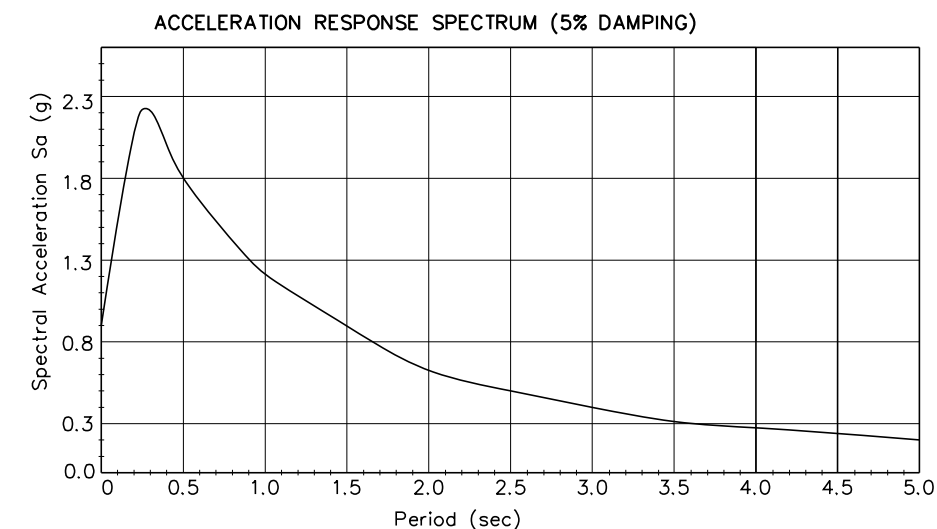
SHEET	TITLE
1.	General Plan
2.	Index to Plans
3.	Deck Contours
4.	Foundation Plan
5.	Abutment 1 Layout
6.	Abutment 3 Layout
7.	Abutment Details No. 1
8.	Abutment Details No. 2
9.	Retaining Wall Details No. 1
10.	Retaining Wall Details No. 2
11.	Pier Layout
12.	Pier Details
13.	Typical Sections
14.	Girder Layout
15.	Girder Details No. 1
16.	Girder Details No. 2
17.	Cross Frame Details No. 1
18.	Cross Frame Details No. 2
19.	Cross Frame Details No. 3
20.	Bearing Details No. 1
21.	Bearing Details No. 2
22.	Steel Girder Shop Splice & Stud Connector Details
23.	Steel Girder Transverse Stiffener Details
24.	Steel Girder Connection Stiffener Details
25.	California ST-75 Bridge Rail Details No. 1
26.	California ST-75 Bridge Rail Details No. 2
27.	California ST-75 Bridge Rail Details No. 3
28.	California ST-75 Bridge Rail Details No. 4
29.	California ST-75 Bridge Rail Details No. 5
30.	Log of Test Borings 1 of 3
31.	Log of Test Borings 2 of 3
32.	Log of Test Borings 3 of 3

GENERAL NOTES LOAD RESISTANCE FACTOR DESIGN

DESIGN: AASHTO LRFD Bridge Design Specifications, 8th Edition W/ California Amendments.
SEISMIC DESIGN: Caltrans Seismic Design Criteria (SDC), Version 2.0 dated April 2019
 Caltrans Seismic Design Specifications for Steel Bridges, 2nd Edition, Dated May 2016
DEAD LOAD: Includes 35 psf for future wearing surface.
 Includes 15 psf for use of steel deck.
LIVE LOADING: HL93 W/ "Low-Boy" and Permit Design Vehicle
SEISMIC LOADING: Soil Profile (V_{s30}): 380 m/s soil profile Type C
 Moment Magnitude: 8.16
 Peak Ground Acceleration = 0.94g
REINFORCED CONCRETE: $f_y = 60$ ksi
 $f'_c = 4.0$ ksi (unless noted)
STRUCTURAL STEEL: Shapes and Plates A709 Grade 50W, $f_y = 50,000$ psi
STRUCTURAL BOLTS: ASTM A325 Type 3 with threads excluded from shear plane (unless noted otherwise).

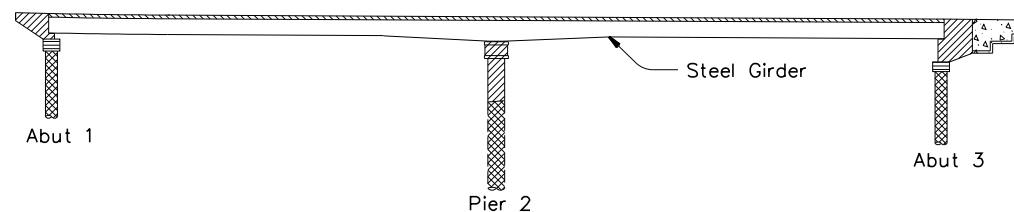
STAGE CONSTRUCTION






- SEASON 1**
- At Pier, Construct CIDH Concrete Piles and Columns. At Abutments, construct CIDH Concrete Piles.
- SEASON 2**
- Close bridge to traffic and remove existing superstructure and substructure.
 - Construct remaining portions of new bridge.



QUANTITIES

CALIFORNIA ST-75 BRIDGE RAILING	852	LF
STRUCTURE EXCAVATION (BRIDGE)	239	CY
STRUCTURE EXCAVATION (RETAINING WALL)	196	CY
STRUCTURE BACKFILL (BRIDGE)	139	CY
STRUCTURE BACKFILL (RETAINING WALL)	215	CY
60" CAST-IN-DRILLED-HOLE CONCRETE PILING	304	LF
84" CAST-IN-DRILLED-HOLE CONCRETE PILING	206	LF
STRUCTURAL CONCRETE, BRIDGE FOOTING	91	CY
STRUCTURAL CONCRETE, BRIDGE	257	CY
STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER)	323	CY
STRUCTURAL CONCRETE, RETAINING WALL	51	CY
JOINT SEAL (MR=2")	62	LF
BAR REINFORCING STEEL (BRIDGE)	291,542	LB
BAR REINFORCING STEEL (RETAINING WALL)	6,403	LB
FURNISH STRUCTURAL STEEL (BRIDGE)	605,606	LB
ERECT STRUCTURAL STEEL (BRIDGE)	605,606	LB
WELDED STEEL PIPE CASING (BRIDGE)	370	FT
MISCELLANEOUS STEEL (BRIDGE)	15,435	LB
STAIN GALVANIZED SURFACES	1	LS



-  STRUCTURAL CONCRETE, BRIDGE FOOTING ($f'_c = 4.0$ ksi)
-  STRUCTURAL CONCRETE, BRIDGE ($f'_c = 4.0$ ksi)
-  STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER, $f'_c = 4.0$ ksi)
-  CAST-IN-DRILLED-HOLE CONCRETE PILES ($f'_c = 4.0$ ksi)
-  STRUCTURAL CONCRETE, RETAINING WALL

CONCRETE STRENGTH AND TYPE LIMITS

NO SCALE

**MORRISON
STRUCTURES**

DESIGN	BY D. Roesner	CHECKED R. Valentine
DETAILS	BY J. Gallino	CHECKED R. Morrison, Jr.
QUANTITIES	BY D. Roesner	CHECKED R. Morrison, Jr.

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Robert L. Morrison, Jr.
 PROJECT ENGINEER

BRIDGE NO. 04C-0263
 POST MILES

MATTOLE RIVER BRIDGE ON MATTOLE ROAD (REPLACE)

INDEX TO PLANS

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

11/16/23

SHEET 2 OF 32

FILE => \$REQUEST

DATE PLOTTED => \$DATE USERNAME => \$USER

NOTES:

1. Contours do not include camber.
2. Contour interval = 0.10'.
- × Indicates 10'-0" intervals along station line.

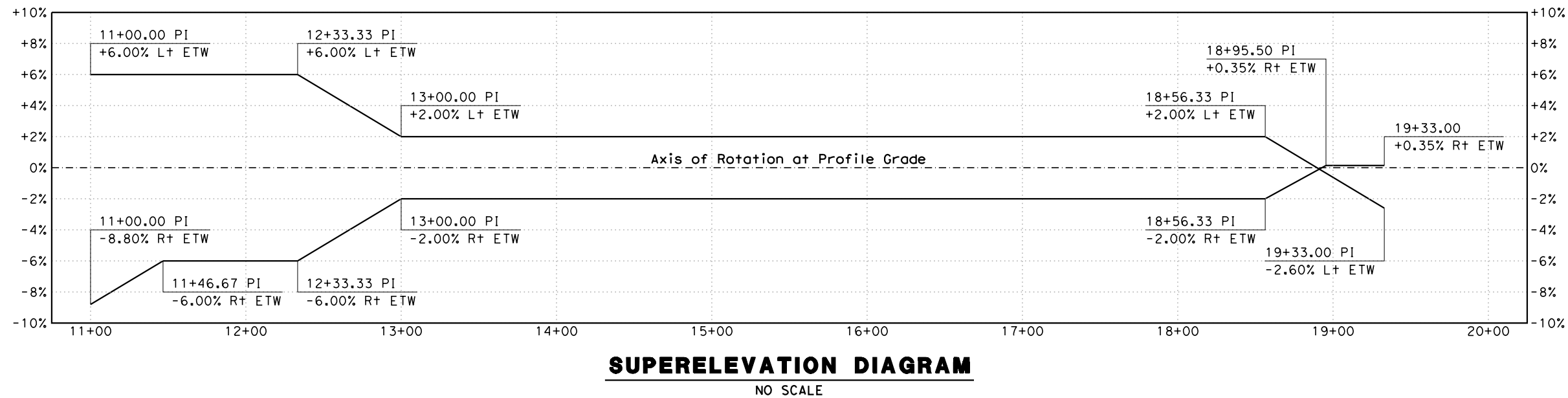
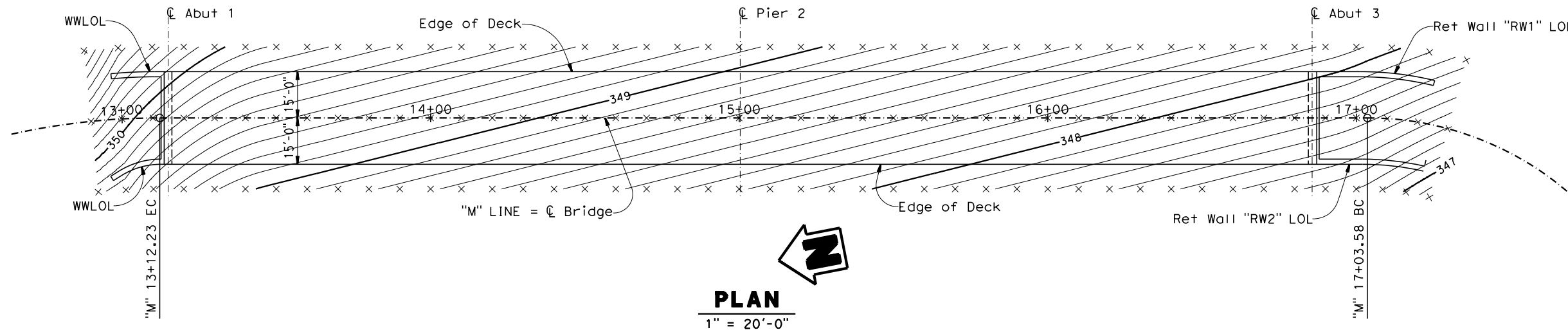
DIST	COUNTY	ROUTE	POST MILE TOTAL PROJECT	SHEET No	TOTAL SHEETS
1	Hum	Local		45	74

Robert Morrison, Jr.
 REGISTERED STRUCTURAL ENGINEER
 No. S3577
 Exp. 3-31-25
 STATE OF CALIFORNIA

12/8/2023
 PLANS APPROVAL DATE

Prepared by:
 MORRISON STRUCTURES, INC.
 1890 PARK MARINA DRIVE, SUITE 104
 REDDING, CALIFORNIA 96001

Prepared for:
 HUMBOLDT COUNTY PUBLIC WORKS DEPARTMENT
 1106 2nd STREET
 EUREKA, CALIFORNIA 95501



DESIGN	BY D. Roesner	CHECKED R. Morrison Jr.
DETAILS	BY R. Uhlmann	CHECKED R. Morrison Jr.
QUANTITIES	BY D. Roesner	CHECKED R. Morrison, Jr.

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Robert L. Morrison, Jr.
 PROJECT ENGINEER

BRIDGE NO. 04C-0263
 POST MILES

MATTOLE RIVER BRIDGE ON MATTOLE ROAD (REPLACE)

DECK CONTOURS

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

0	1	2	3
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FILE => \$REQUEST

DISREGARD PRINTS BEARING EARLIER REVISION DATES

10/13/23

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET	OF
3	32

DATE PLOTTED => \$DATE USERNAME => \$USER TIME PLOTTED => \$TIME

BENCH MARKS

CP-1
 Δ Elev. 344.67
 C1465 Stainless

LEGEND

- Denotes existing structure
- Denotes proposed structure
- XXX.XX Denotes bottom of footing elevation
- Indicates CIDH Pile

HYDROLOGIC SUMMARY TABLE

Drainage Area: 155 Sq Miles

	Design Flood	Base Flood	Overtopping Flood	Record Flood
Frequency (Years)	50	100	>200	N/A
Discharge (Cubic Feet per Second)	60,200	66,400	>100,000	N/A
Water Surface Elevation at bridge (Feet)	332.41	333.29	347.50	N/A

Flood plain data are based upon information available when the plans were prepared and are shown to meet Federal requirements. The accuracy of said information is not warranted. Interested or affected parties should make their own investigation.

CURVE DATA

No.	R	Δ	T	L
①	222.00'	65° 27' 28"	142.68'	253.62'
④	100.00'	81° 42' 50"	86.49'	142.62'

SCOUR DATA TABLE

Support No.	Long Term (Degradation and Contraction) Scour Elevation (FT)	Short Term (Local) Scour Depth (FT)
Abut 1.	316.0	0
Pier 2	292.0	17
Abut 3	325.0	0

Notes

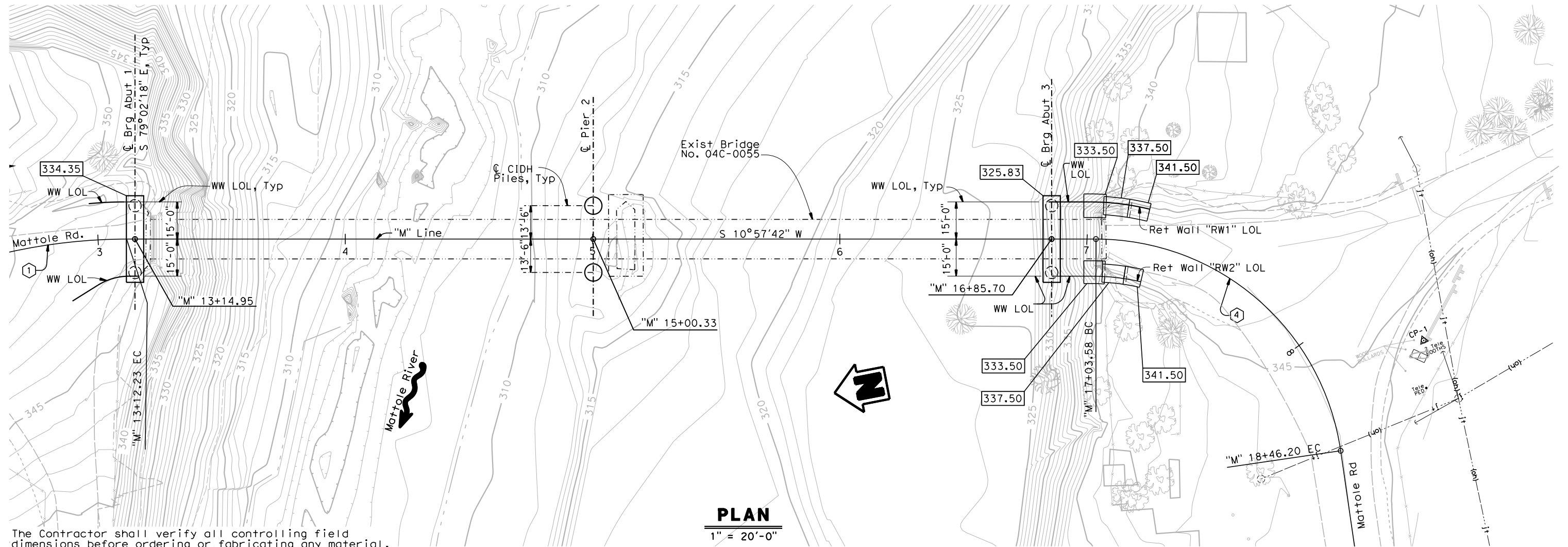
- Elevations are based on the NAVD 88 Datum. Coordinates are based on California Coordinate System 83 with 2007 Epoch.

PILE DATA TABLE

Location	Pile Type	Nominal Resistance (Kips)		Design Tip Elevation (ft)	Specified Tip Elev (ft)	Required Nominal Driving Resistance (Kips)
		Compression	Tension			
Abut 1	60" CIDH	1480	0	270.0 (a) 259.0 (d)	259.0	NA
Pier 2	84" CIDH	2850	110	227.0 (a) 270.0 (b) 210.0 (d)	210.0	NA
Abut 3	60" CIDH	1490	0	274.0 (a) 250.0 (d)	250.0	NA

NOTES:

- Design Tip elevation is controlled by (a) Compression, (b) Tension, (d) Lateral Loads.
- The specified tip elevation shall not be raised.



PLAN

1" = 20'-0"

The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.



DESIGN	BY D. Roesner	CHECKED R. Valentine
DETAILS	BY J. Gallino	CHECKED R. Valentine
QUANTITIES	BY D. Roesner	CHECKED R. Morrison, Jr.

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Robert L. Morrison, Jr.
 PROJECT ENGINEER

BRIDGE NO. 04C-0263
 POST MILES

**MATTOLE RIVER BRIDGE ON MATTOLE ROAD (REPLACE)
 FOUNDATION PLAN**

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES

10/13/23

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 4 OF 32

FILE => \$REQUEST

DIST	COUNTY	ROUTE	POST MILE TOTAL PROJECT	SHEET No	TOTAL SHEETS
1	Hum	Local		46	74

REGISTERED STRUCTURAL ENGINEER
 Robert Morrison, Jr.
 No. S3577
 Exp. 3-31-25
 STATE OF CALIFORNIA

12/8/2023
 PLANS APPROVAL DATE

Prepared by:
 MORRISON STRUCTURES, INC.
 1890 PARK MARINA DRIVE, SUITE 104
 REDDING, CALIFORNIA 96001

Prepared for:
 HUMBOLDT COUNTY PUBLIC WORKS DEPARTMENT
 1106 2nd STREET
 EUREKA, CALIFORNIA 95501

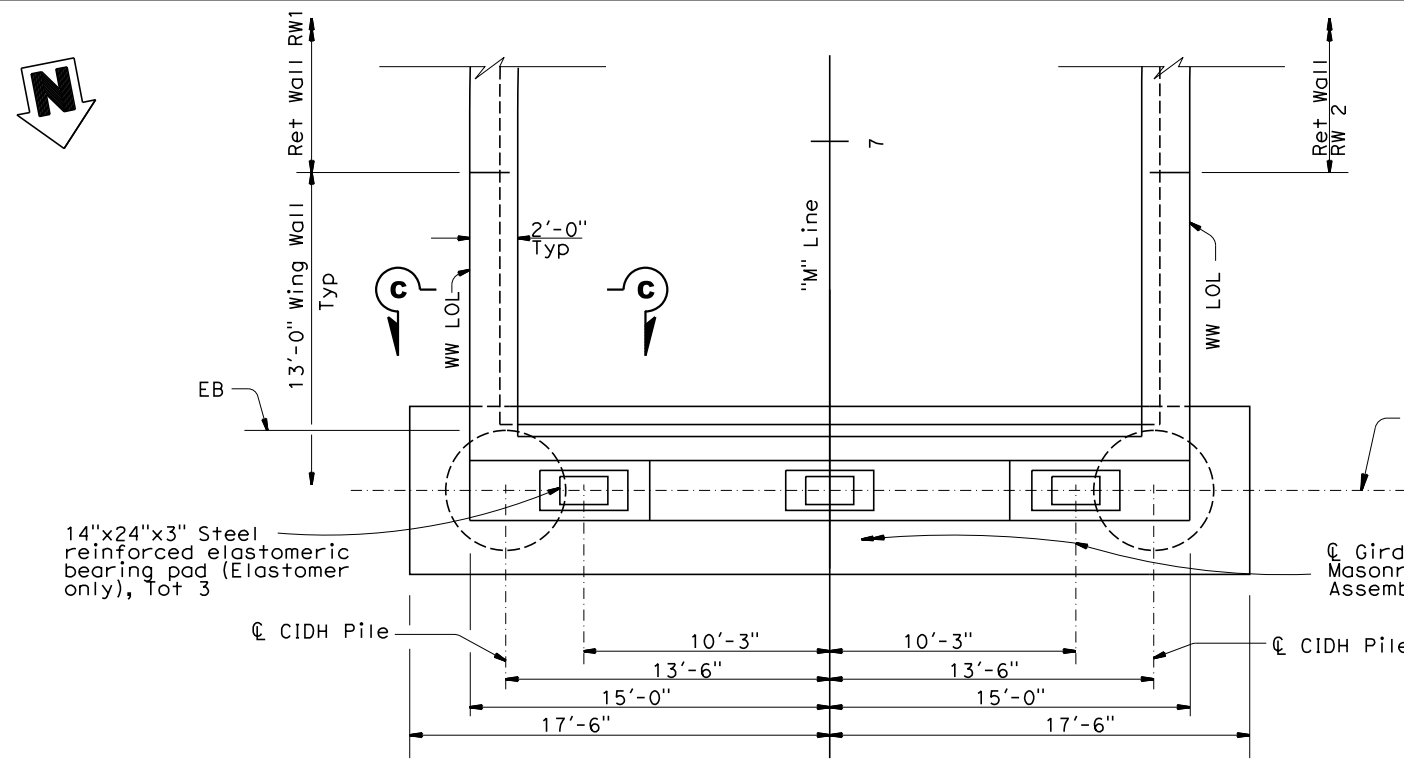
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DIST	COUNTY	ROUTE	POST MILE TOTAL PROJECT	SHEET No	TOTAL SHEETS
1	Hum	Local		48	74

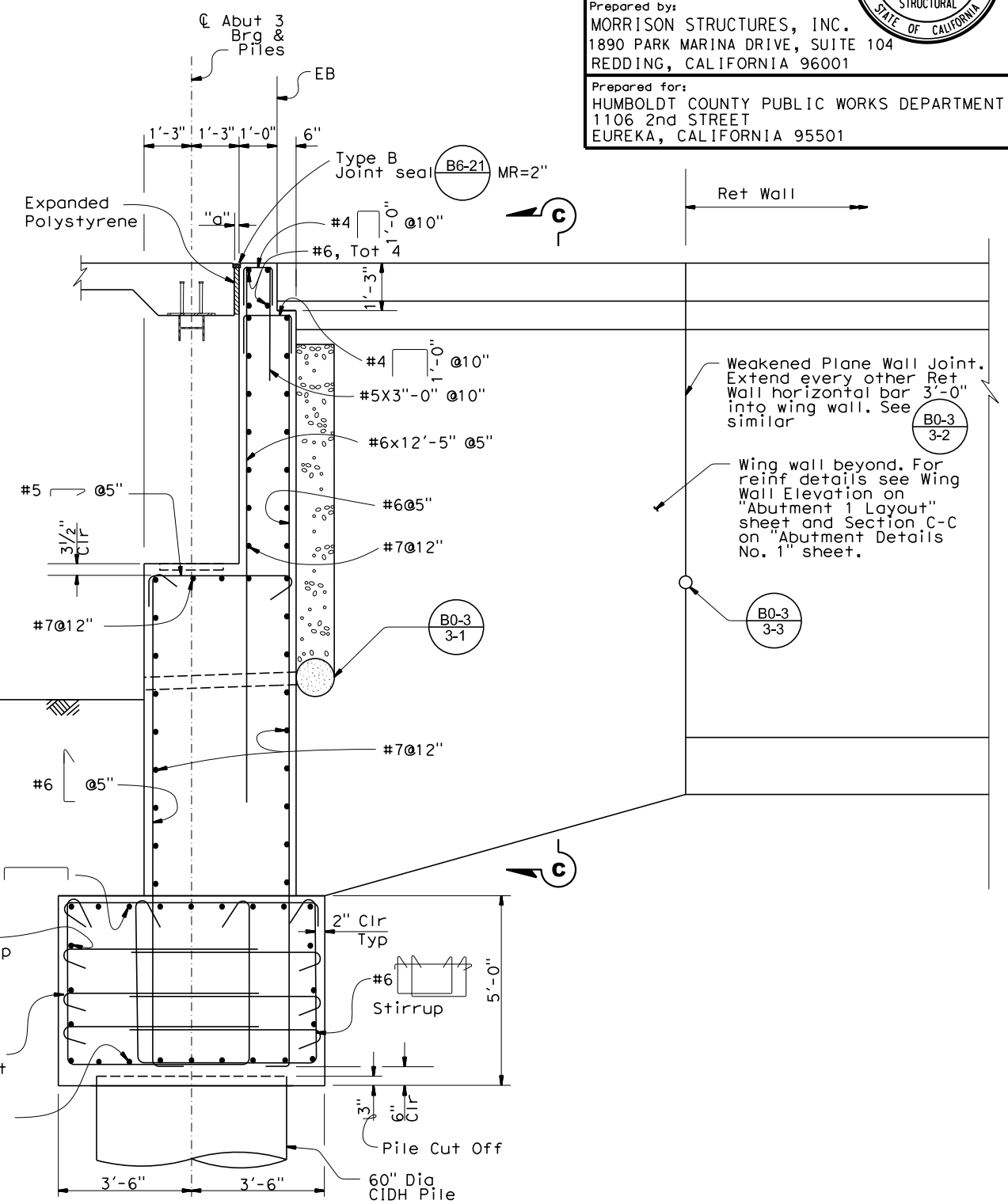
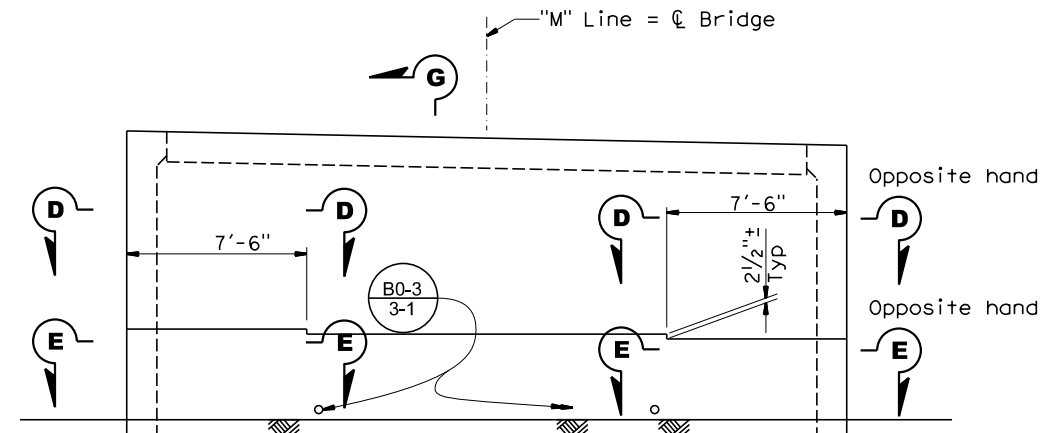
REGISTERED STRUCTURAL ENGINEER
 Robert Morrison, Jr.
 No. S3577
 Exp. 3-31-25
 STATE OF CALIFORNIA

12/8/2023
 PLANS APPROVAL DATE
 Prepared by:
 MORRISON STRUCTURES, INC.
 1890 PARK MARINA DRIVE, SUITE 104
 REDDING, CALIFORNIA 96001

Prepared for:
 HUMBOLDT COUNTY PUBLIC WORKS DEPARTMENT
 1106 2nd STREET
 EUREKA, CALIFORNIA 95501



- Notes:
- For Sections B-B and C-C see "Abutment Details No. 1" sheet.
 - For Sections D-D and E-E see "Abutment Details No. 2" sheet.



RSP. See Abutment 3 Rock Slope Protection Elevation on "Abutment Details No. 2" sheet.

Weakened Plane Wall Joint. Extend every other Ret Wall horizontal bar 3'-0" into wing wall. See similar B0-3 3-2.

Wing wall beyond. For reinf details see Wing Wall Elevation on "Abutment 1 Layout" sheet and Section C-C on "Abutment Details No. 1" sheet.



DESIGN	BY D. Roesner	CHECKED R. Valentine
DETAILS	BY J. Gallino	CHECKED R. Valentine
QUANTITIES	BY D. Roesner	CHECKED R. Morrison, Jr.

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Robert L. Morrison, Jr.
 PROJECT ENGINEER

BRIDGE NO. 04C-0263
 POST MILES

MATTOLE RIVER BRIDGE ON MATTOLE ROAD (REPLACE)
ABUTMENT 3 LAYOUT

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

0	1	2	3
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DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET 6 OF 32
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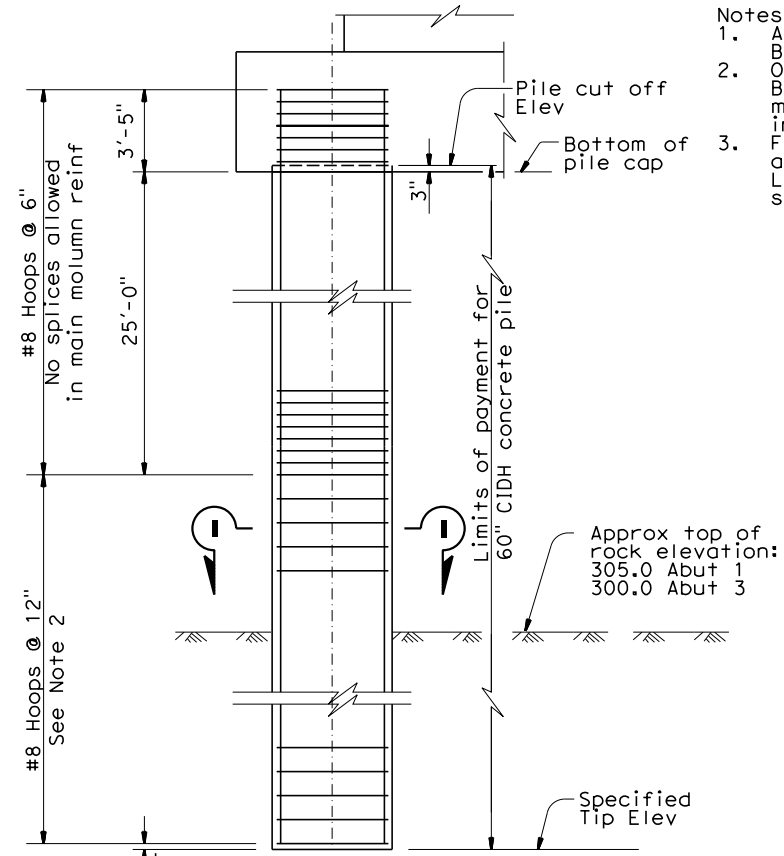
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1	Hum	Local		49	74

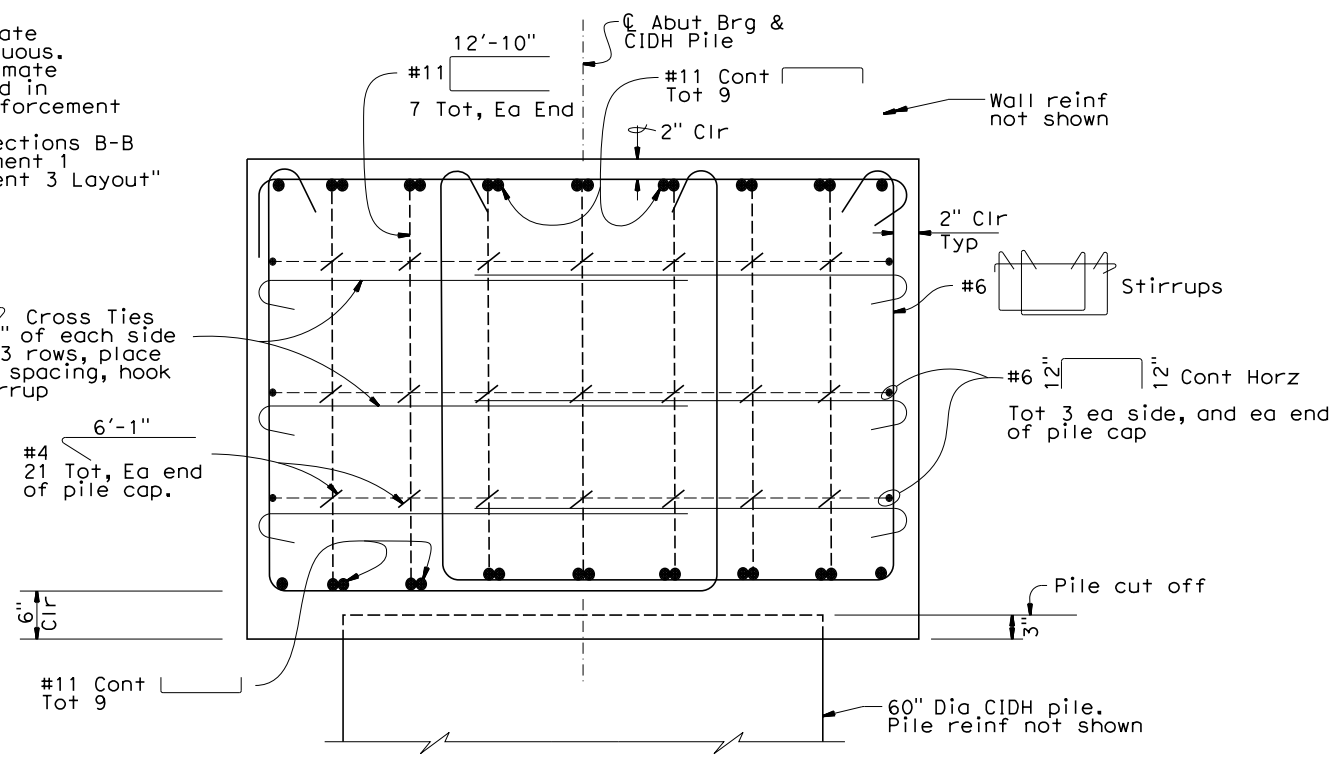
REGISTERED STRUCTURAL ENGINEER Robert Morrison, Jr. No. S3577 Exp. 3-31-25 STATE OF CALIFORNIA	
12/8/2023 PLANS APPROVAL DATE	
Prepared by: MORRISON STRUCTURES, INC. 1890 PARK MARINA DRIVE, SUITE 104 REDDING, CALIFORNIA 96001	
Prepared for: HUMBOLDT COUNTY PUBLIC WORKS DEPARTMENT 1106 2nd STREET EUREKA, CALIFORNIA 95501	

- Notes:
- All hoops are Ultimate Butt Spliced Continuous. Only staggered Ultimate Butt Splices allowed in main CIDH pile reinforcement in this zone.
 - For locations of Sections B-B and C-C, see "Abutment 1 Layout" and "Abutment 3 Layout" sheets.

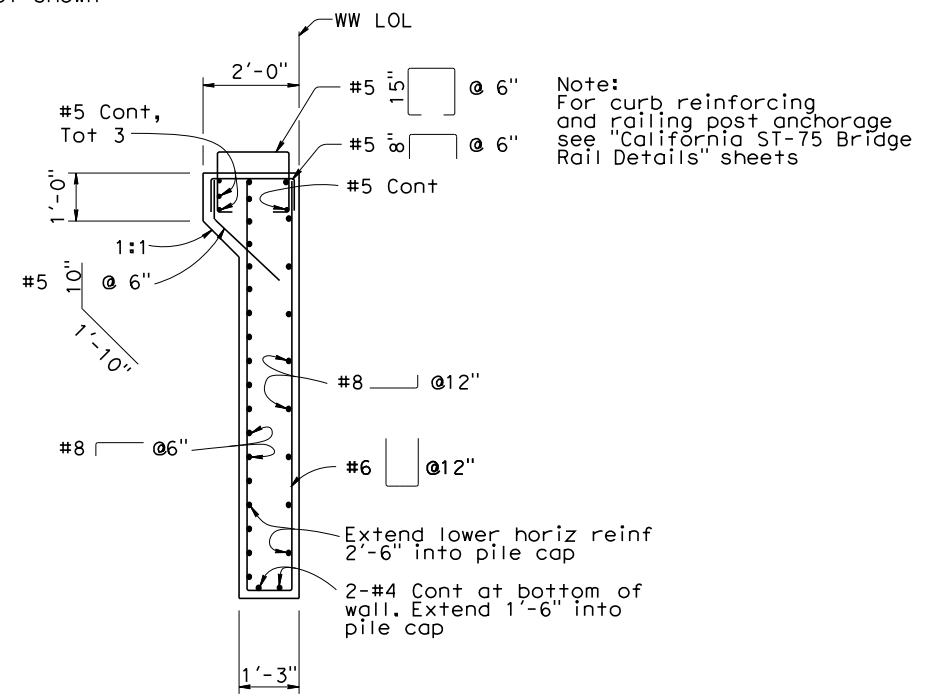


ABUTMENT PILE ELEVATION
1/4" = 1'-0"

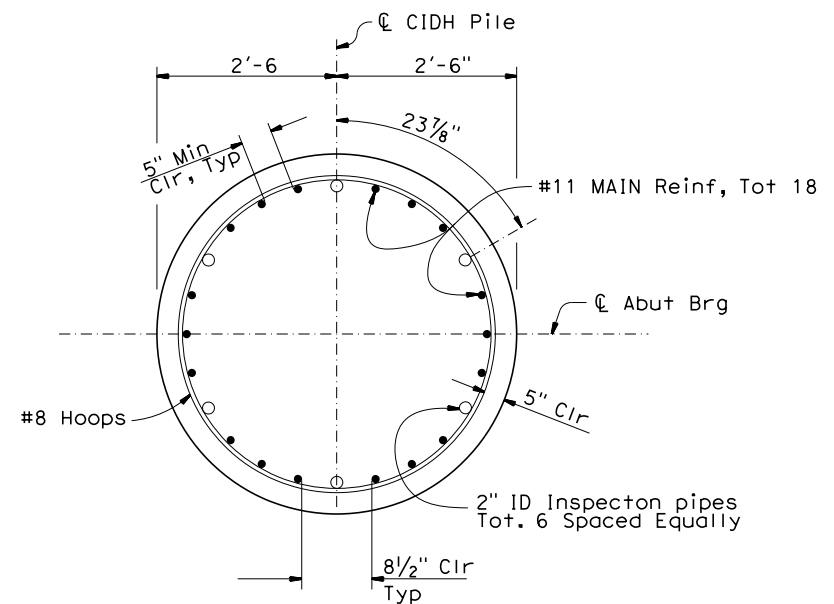
- #4 4'-6" Cross Ties within 5'-0" of each side of pile C, 3 rows, place at stirrup spacing, hook around stirrup
- #4 6'-1" 21 Tot, Ea end of pile cap.



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



SECTION C-C
1/2" = 1'-0"



SECTION I-I
3/4" = 1'-0"

Note:
For curb reinforcing and railing post anchorage see "California ST-75 Bridge Rail Details" sheets



DESIGN	BY D. Roesner	CHECKED R. Valentine
DETAILS	BY J. Gallino	CHECKED R. Valentine
QUANTITIES	BY D. Roesner	CHECKED R. Morrison, Jr.

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Robert L. Morrison, Jr.
PROJECT ENGINEER

BRIDGE NO.
04C-0263
POST MILES

MATTOLE RIVER BRIDGE ON MATTOLE ROAD (REPLACE)
ABUTMENT DETAILS No. 1

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

0 1 2 3


DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
10/13/23	7	32

FILE => \$REQUEST

DATE PLOTTED => \$TIME USERNAME => \$USER

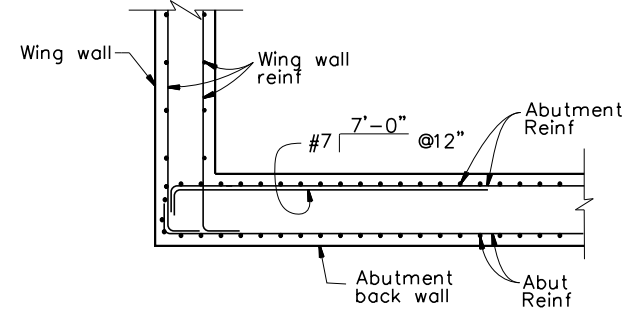
DIST	COUNTY	ROUTE	POST MILE TOTAL PROJECT	SHEET No	TOTAL SHEETS
1	Hum	Local		50	74


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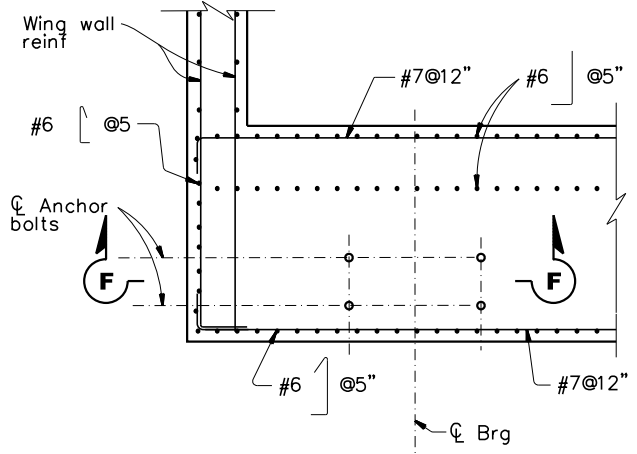
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 1106 2nd STREET
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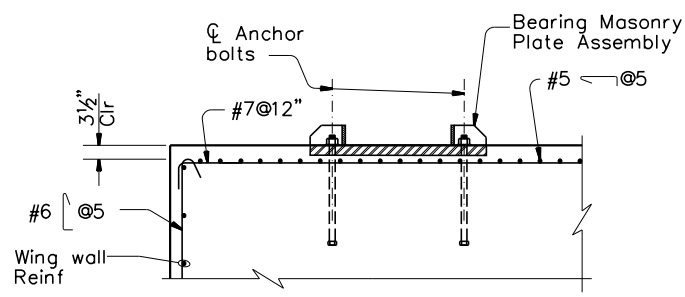
Notes:
 1. For locations of Sections D-D and E-E see "Abutment 1 Layout" and "Abutment 2 Layout" sheets.



SECTION D-D
 $\frac{1}{2}'' = 1'-0''$



SECTION E-E
 $\frac{1}{2}'' = 1'-0''$



SECTION F-F
 $\frac{1}{2}'' = 1'-0''$

MORRISON
STRUCTURES

DESIGN	BY D. Roesner	CHECKED R. Valentine
DETAILS	BY J. Gallino	CHECKED R. Valentine
QUANTITIES	BY D. Roesner	CHECKED R. Morrison, Jr.

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Robert L. Morrison, Jr.
 PROJECT ENGINEER

BRIDGE NO.
 04C-0263
 POST MILES

MATTOLE RIVER BRIDGE ON MATTOLE ROAD (REPLACE)
ABUTMENT DETAILS No. 2

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS
 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES
 REVISION DATES (PRELIMINARY STAGE ONLY)
 10/13/23
 SHEET 8 OF 32

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USERNAME => \$USER DATE PLOTTED => \$DATE TIME PLOTTED => \$TIME

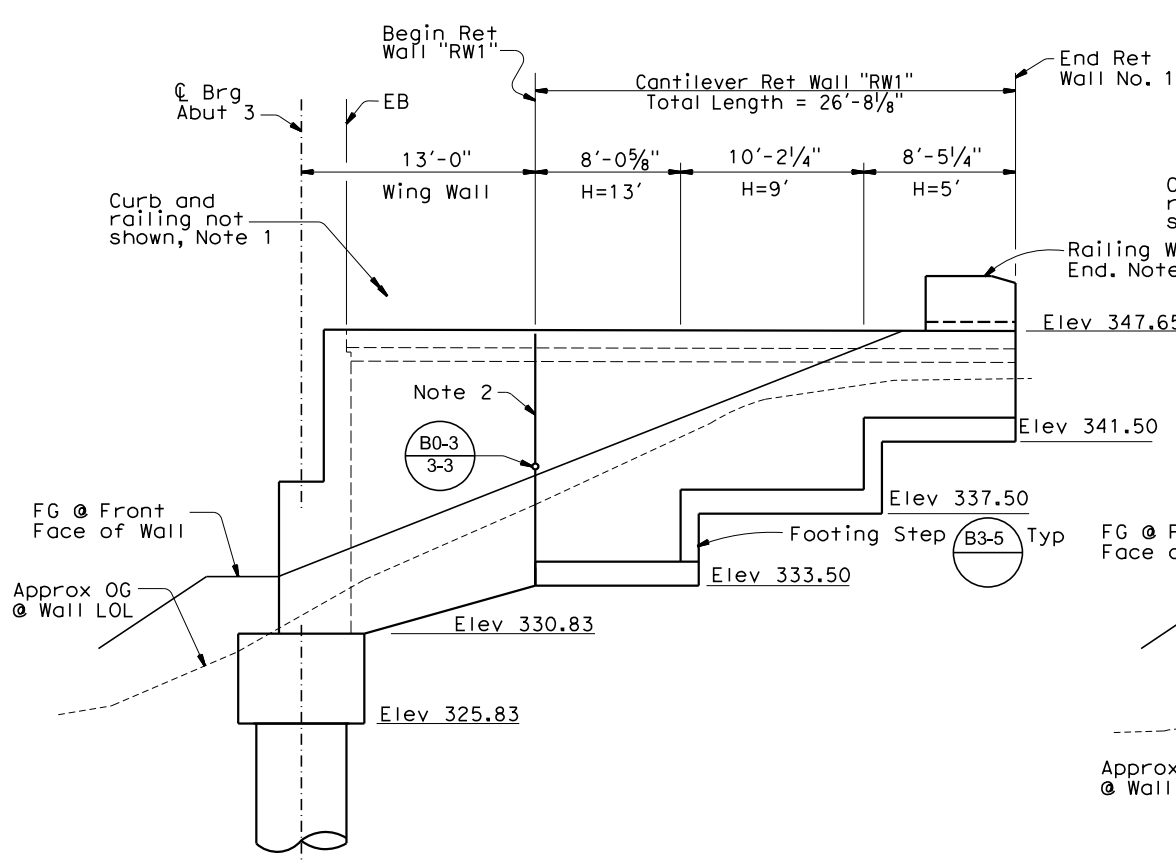
DIST	COUNTY	ROUTE	POST MILE TOTAL PROJECT	SHEET No	TOTAL SHEETS
1	Hum	Local		51	74

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 Robert Morrison, Jr.
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 STATE OF CALIFORNIA

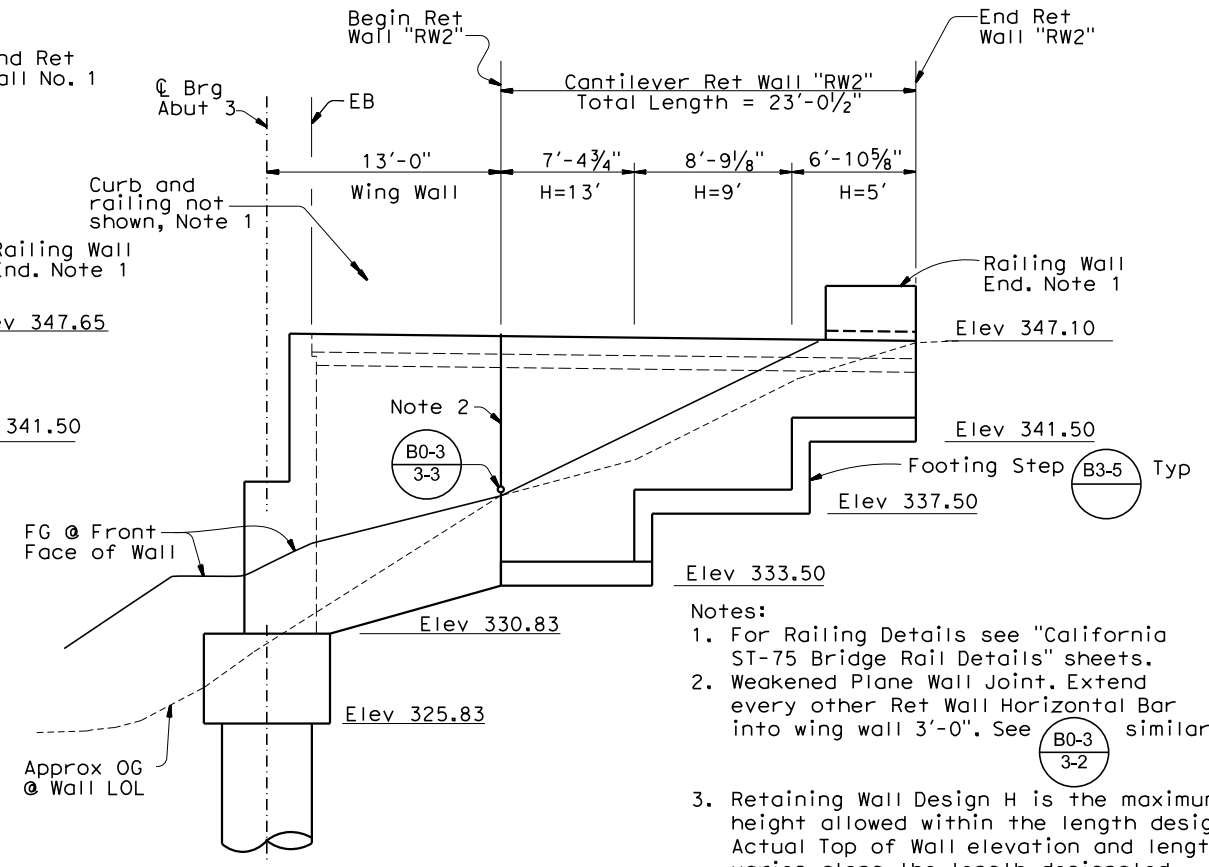
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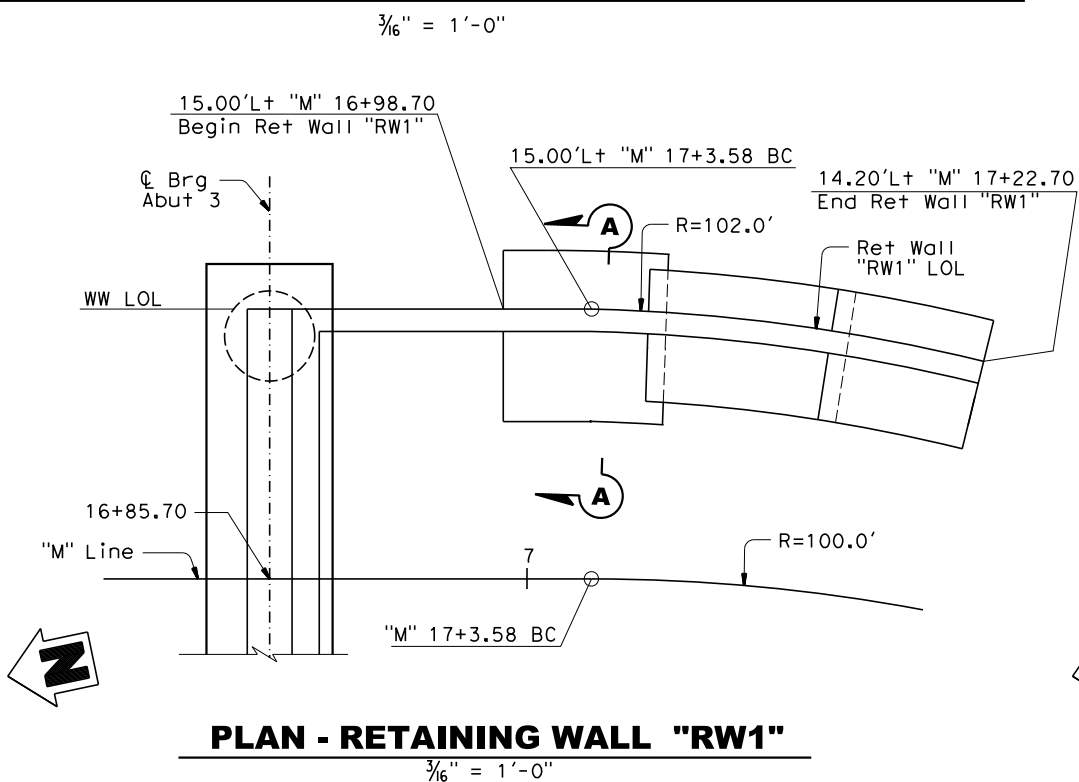
MIRRORED DEVELOPED ELEVATION - RET WALL No. "RW1"



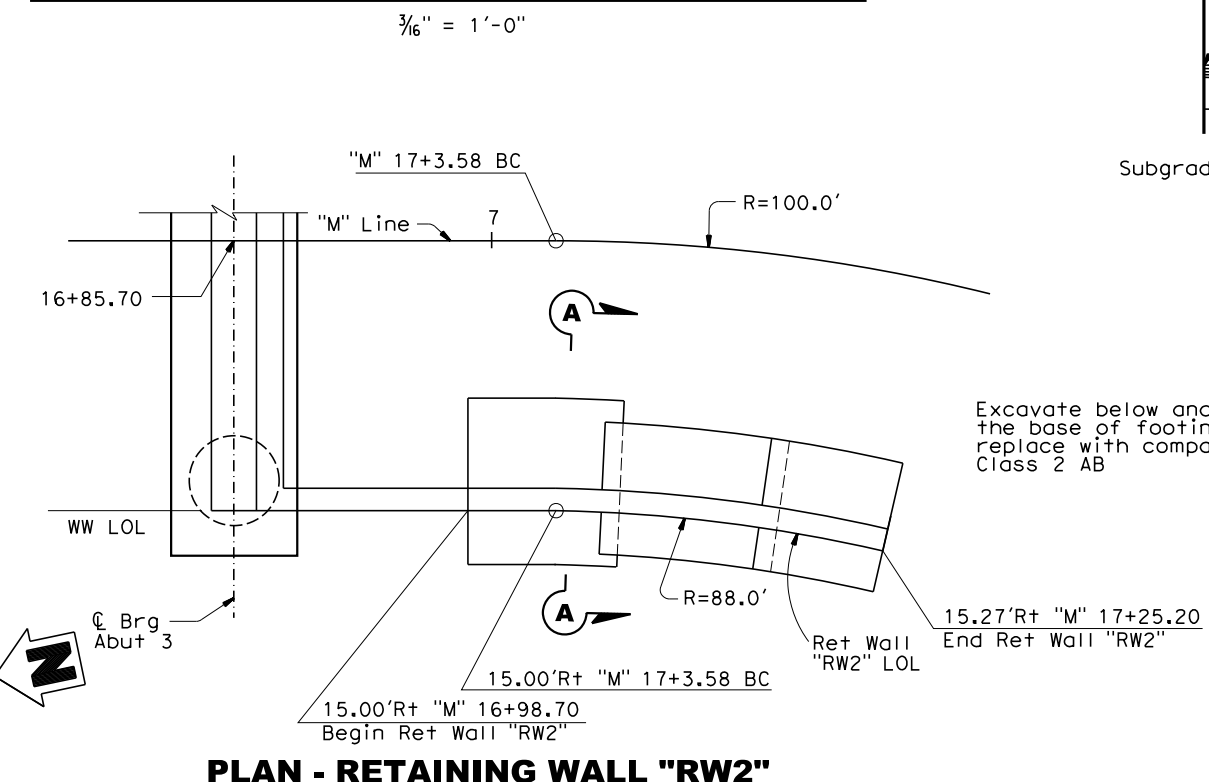
DEVELOPED ELEVATION - RET WALL No. "RW2"

- Notes:
- For Railing Details see "California ST-75 Bridge Rail Details" sheets.
 - Weakened Plane Wall Joint. Extend every other Ret Wall Horizontal Bar into wing wall 3'-0". See (B0-3) similar.
 - Retaining Wall Design H is the maximum height allowed within the length designated. Actual Top of Wall elevation and length varies along the length designated.

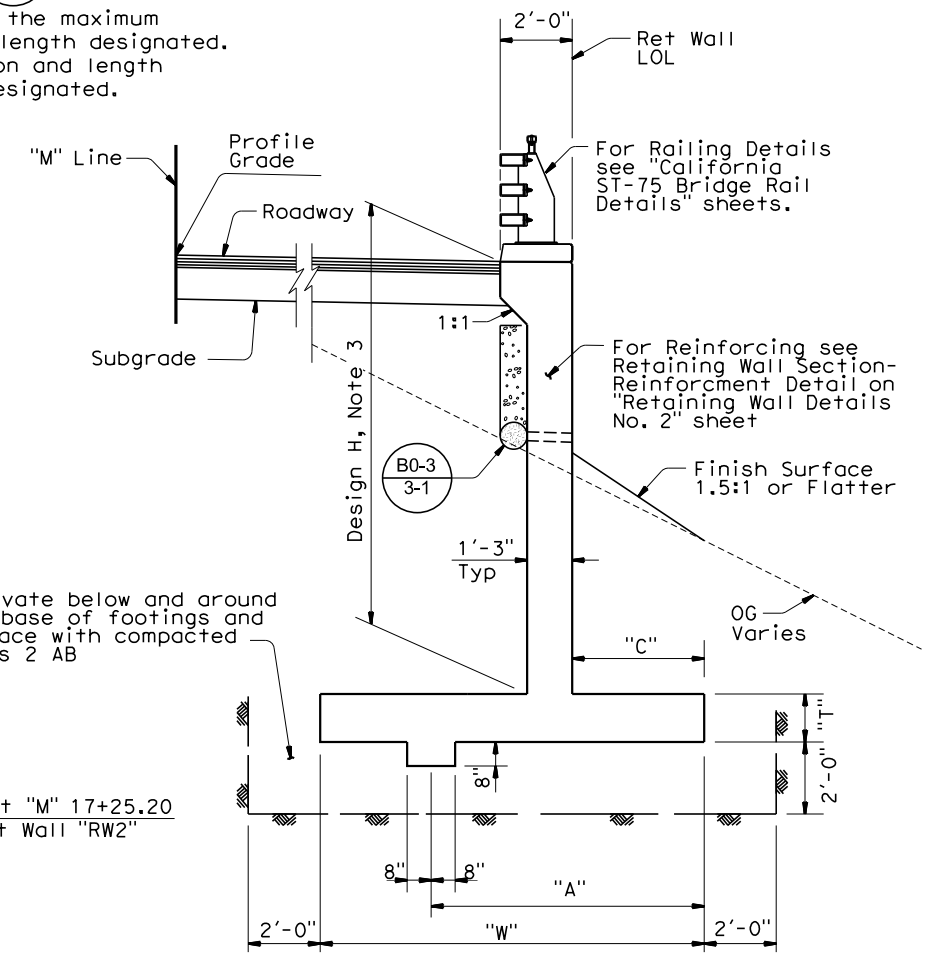
RETAINING WALL DIMENSIONS				
H	"W"	"A"	"C"	"T"
13'	9'-3"	6'-1"	3'-0"	1'-6"
9'	7'-4"	4'-2"	2'-4"	1'-4"
5'	7'-4"	4'-2"	2'-4"	1'-4"



PLAN - RETAINING WALL "RW1"



PLAN - RETAINING WALL "RW2"



SECTION A-A



DESIGN	BY D. Roesner	CHECKED R. Morrison, Jr.
DETAILS	BY J. Gallino	CHECKED R. Morrison, Jr.
QUANTITIES	BY D. Roesner	CHECKED R. Morrison, Jr.

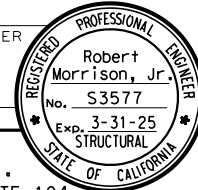
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Robert L. Morrison, Jr.
 PROJECT ENGINEER

BRIDGE NO. 04C-0263
 POST MILES

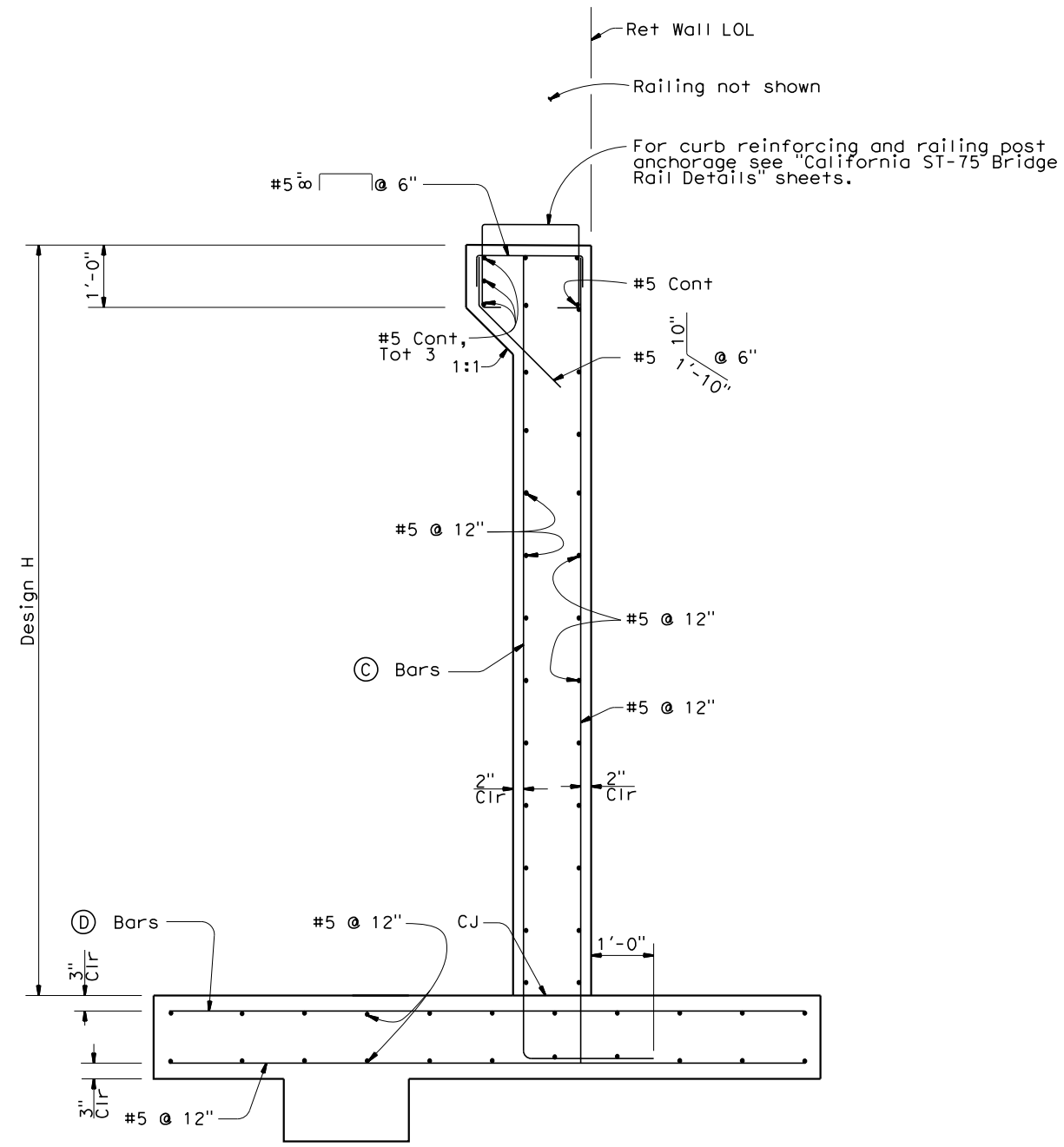
MATTOLE RIVER BRIDGE ON MATTOLE ROAD (REPLACE)
RETAINING WALLS DETAILS No. 1

DIST	COUNTY	ROUTE	POST MILE TOTAL PROJECT	SHEET No	TOTAL SHEETS
1	Hum	Local		52	74


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RETAINING WALL REINFORCING		
H	ⓐ Bars	ⓑ Bars
13'	#6 @ 8"	#6 @ 8"
9'	#6 @ 12"	#6 @ 12"
5'	#6 @ 12"	#5 @ 12"



RETAINING WALL SECTION - REINFORCEMENT
 $\frac{3}{4}'' = 1'-0''$



DESIGN	BY D. Roesner	CHECKED R. Morrison, Jr.
DETAILS	BY J. Gallino	CHECKED R. Morrison, Jr.
QUANTITIES	BY D. Roesner	CHECKED R. Morrison, Jr.

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BRIDGE NO.	04C-0263
POST MILES	

MATTOLE RIVER BRIDGE ON MATTOLE ROAD (REPLACE)
RETAINING WALLS DETAILS No. 2

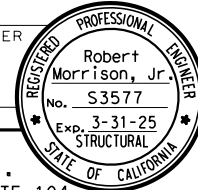


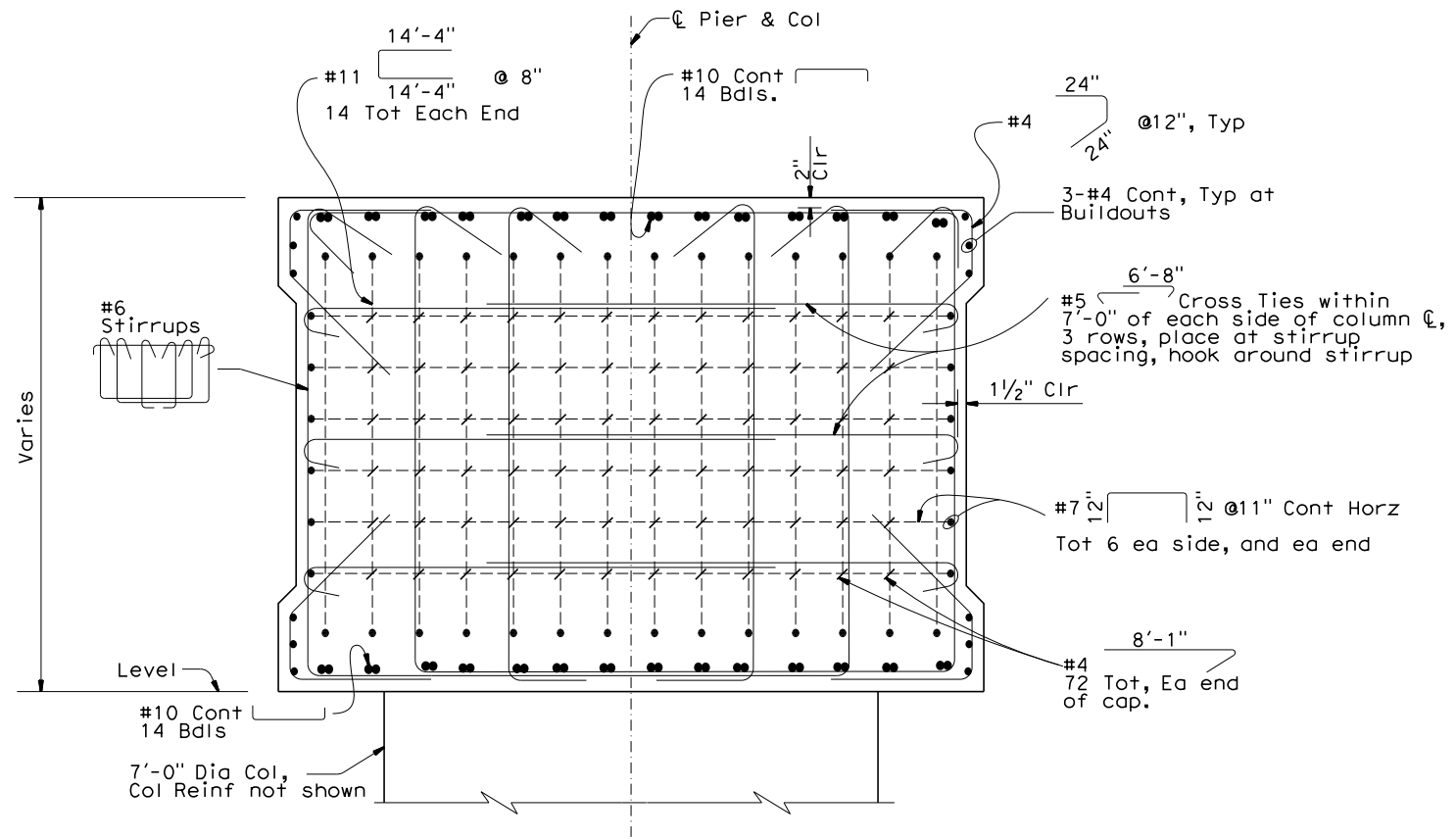
DISREGARD PRINTS BEARING EARLIER REVISION DATES	10/13/23	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET 10 OF 32
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FILE => \$REQUEST

USERNAME => \$USER DATE PLOTTED => \$DATE TIME PLOTTED => \$TIME

DIST	COUNTY	ROUTE	POST MILE TOTAL PROJECT	SHEET No	TOTAL SHEETS
1	Hum	Local		54	74


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SECTION C-C
 $\frac{3}{4}'' = 1'-0''$



DESIGN	BY D. Roesner	CHECKED R. Valentine
DETAILS	BY J. Gallino	CHECKED R. Valentine
QUANTITIES	BY D. Roesner	CHECKED R. Morrison, Jr.

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BRIDGE NO.	04C-0263
POST MILES	

MATTOLE RIVER BRIDGE ON MATTOLE ROAD (REPLACE)
PIER DETAILS



DISREGARD PRINTS BEARING EARLIER REVISION DATES	10/13/23	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET 12 OF 32
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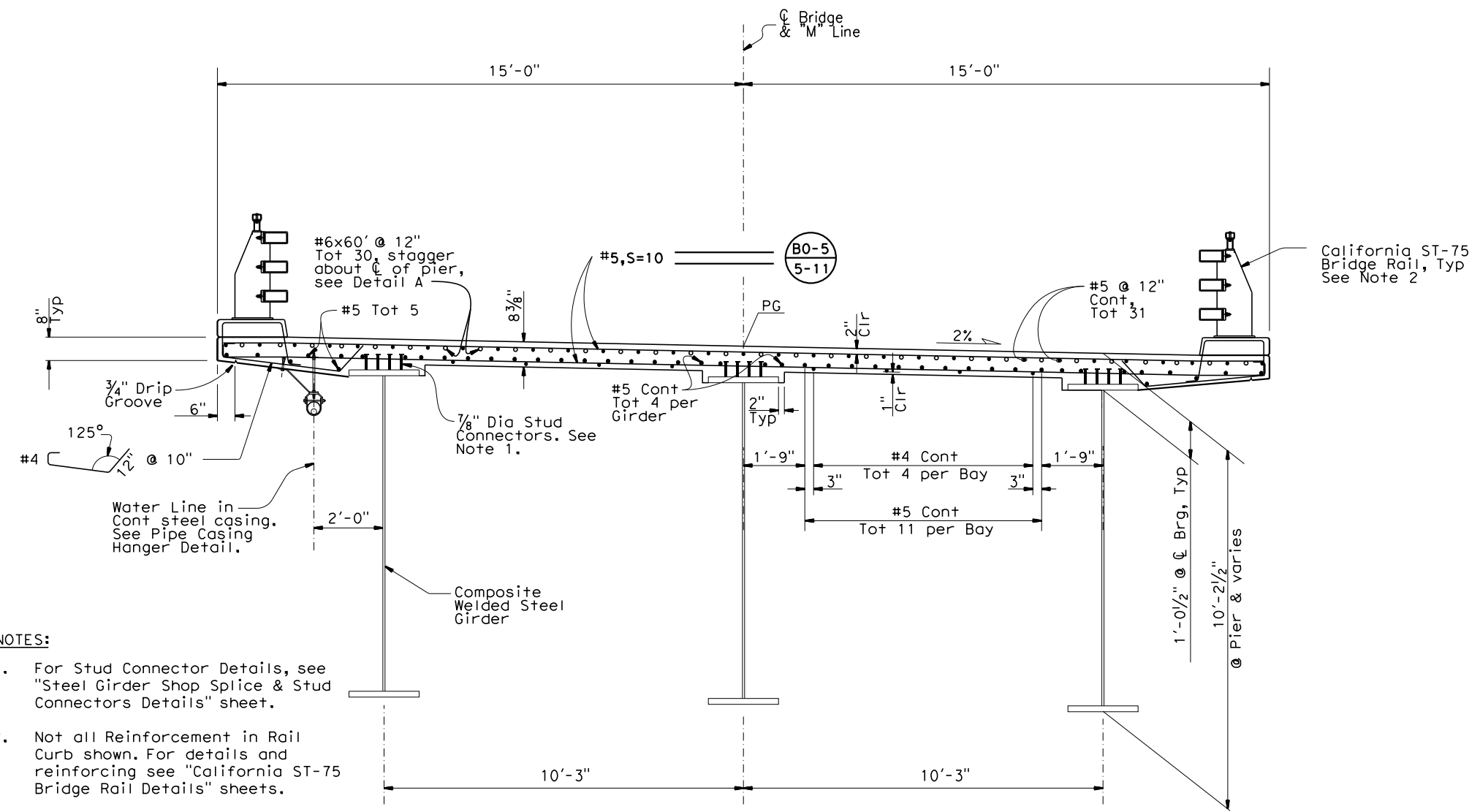
DIST	COUNTY	ROUTE	POST MILE TOTAL PROJECT	SHEET No	TOTAL SHEETS
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 Exp. 3-31-25
 STATE OF CALIFORNIA

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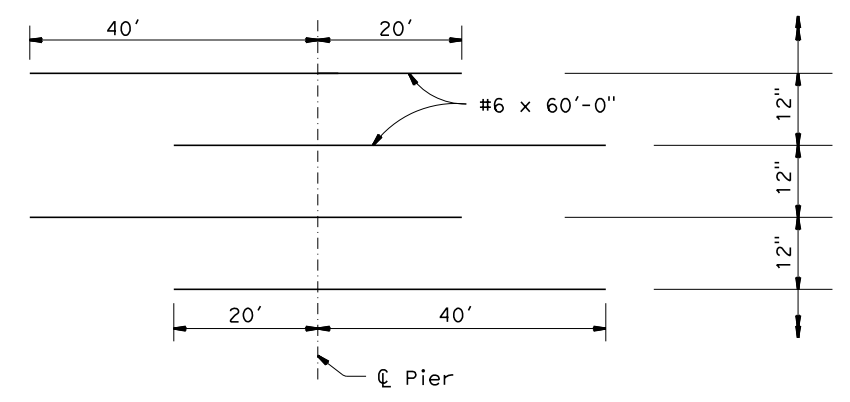
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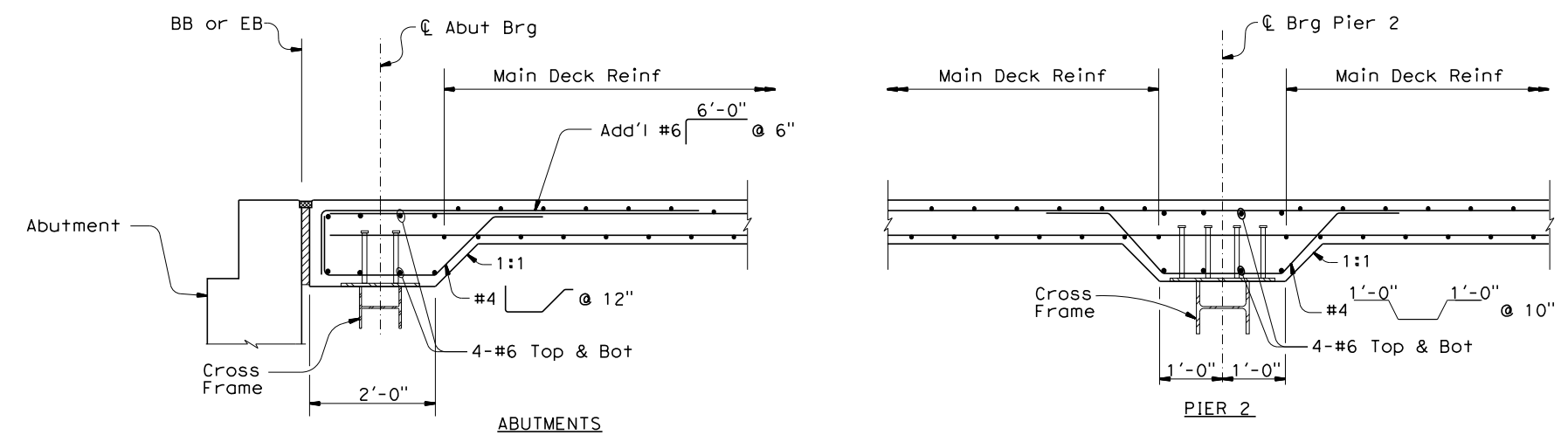


TYPICAL SECTION
1/2" = 1'-0"

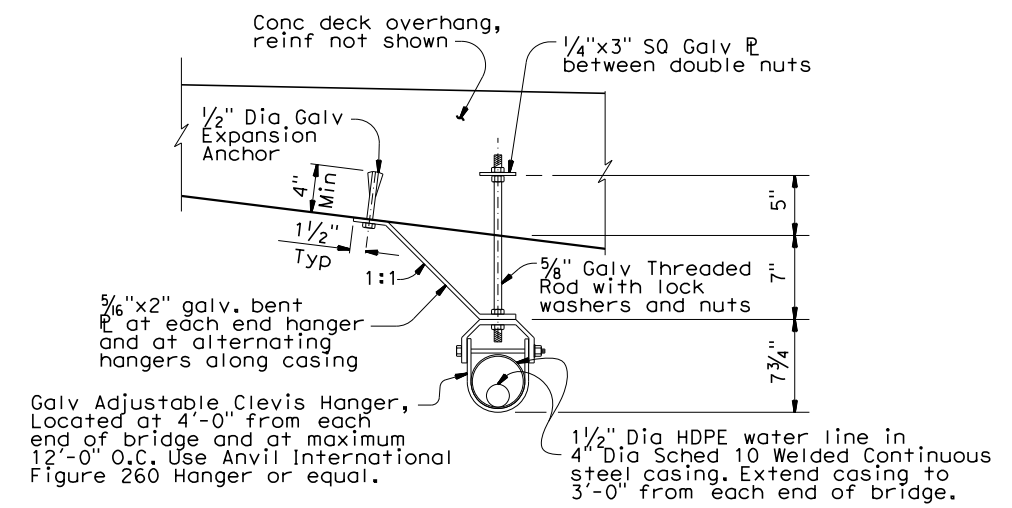
- NOTES:**
1. For Stud Connector Details, see "Steel Girder Shop Splice & Stud Connectors Details" sheet.
 2. Not all Reinforcement in Rail Curb shown. For details and reinforcing see "California ST-75 Bridge Rail Details" sheets.
 3. For Cross Frame details, see "Cross Frame Details" sheets.



DETAIL A
NO SCALE



LONGITUDINAL SECTIONS
3/4" = 1'-0"



PIPE CASING HANGER DETAIL
1/2" = 1'-0"



DESIGN	BY D. Roesner	CHECKED R. Valentine
DETAILS	BY J. Gallino	CHECKED R. Valentine
QUANTITIES	BY D. Roesner	CHECKED R. Morrison, Jr.

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PROJECT ENGINEER

BRIDGE NO.
04C-0263
POST MILES

MATTOLE RIVER BRIDGE ON MATTOLE ROAD (REPLACE)
TYPICAL SECTIONS

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

DISREGARD PRINTS BEARING EARLIER REVISION DATES

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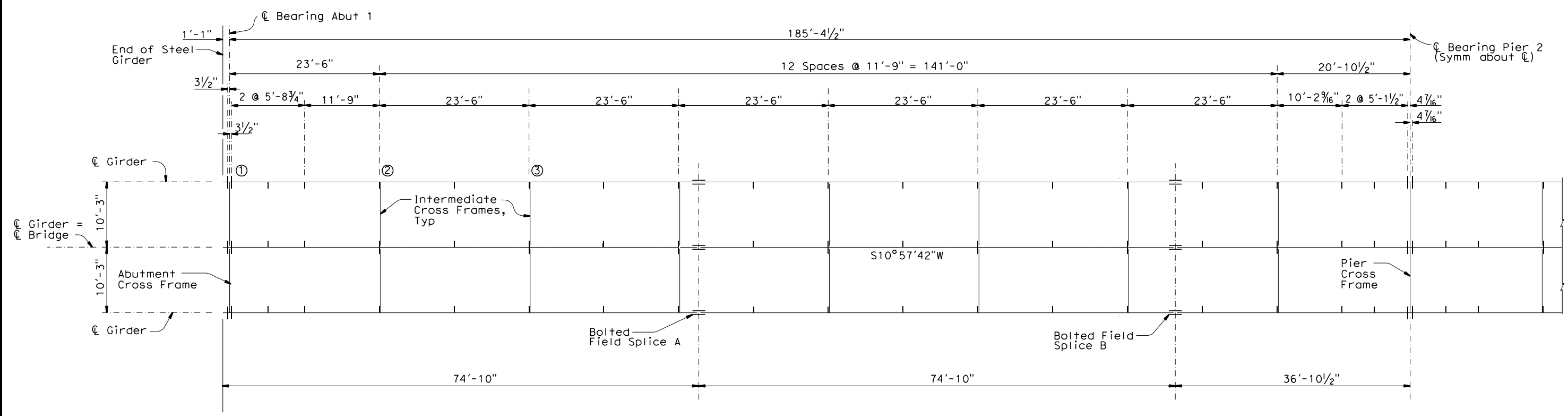
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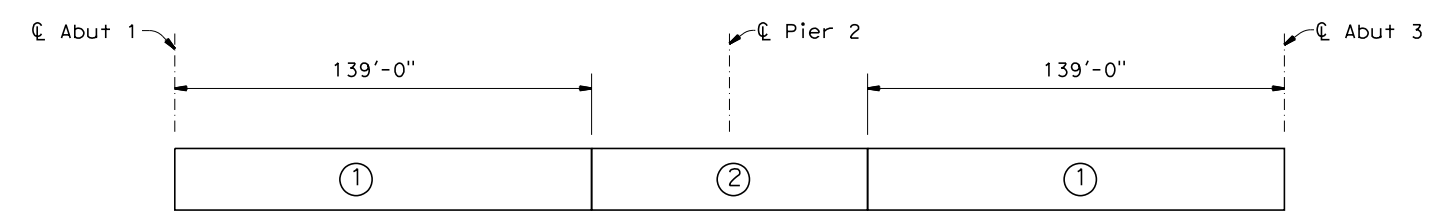
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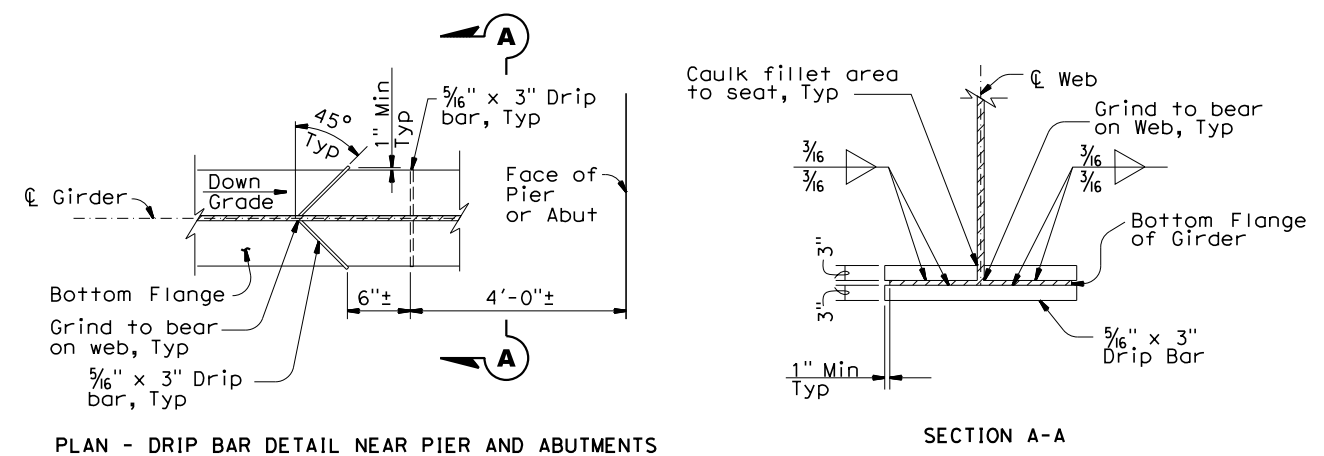


FRAMING PLAN - SPAN 1
 1/8" = 1'-0"



NOTE:
 Deck pours must be made in sequence as numbered in diagram. Pours with same number do not have to be placed simultaneously but must be placed before pours with succeeding numbers are placed.

DECK PLACING DIAGRAM
 NO SCALE



PLAN - DRIP BAR DETAIL NEAR PIER AND ABUTMENTS

SECTION A-A

NOTE:
 Steel for drip bars shall be same grade as bottom flange. Use on all girders to deflect water away from Pier or Abutment.

DRIP BARS DETAIL
 NO SCALE



DESIGN	BY D. Roesner	CHECKED R. Valentine
DETAILS	BY J. Gallino	CHECKED R. Valentine
QUANTITIES	BY D. Roesner	CHECKED R. Morrison, Jr.

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BRIDGE NO. 04C-0263
 POST MILES

MATTOLE RIVER BRIDGE ON MATTOLE ROAD (REPLACE)
GIRDER LAYOUT

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

0	1	2	3
---	---	---	---

DISREGARD PRINTS BEARING EARLIER REVISION DATES

10/13/23									
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SHEET 14	OF 32
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FILE => \$REQUEST

DATE PLOTTED => \$TIME USERNAME => \$USER

NOTES:

1. All steel is Grade 50W.
2. Location of splices optional. For splice details see "Girder Details No. 2" sheet.
3. Stud connections total 4 per spacing. See "Steel Girder Shop Splice & Stud Connection Details" sheet.
4. For Intermediate Connection Stiffener Spacing see "Girder Layout" sheet. For details, see "Steel Girder Connection Stiffener Details" sheet.
5. For Bearing Stiffener details, see "Steel Girder Transverse Stiffener Details" sheet.
6. Provide bottom flange drip bars at Pier 2 and Abut 3. For details, see Drip Bars Detail on "Girder Layout" sheet.

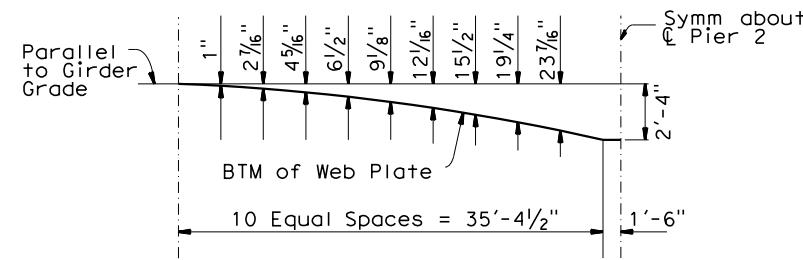
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1	Hum	Local		57	74

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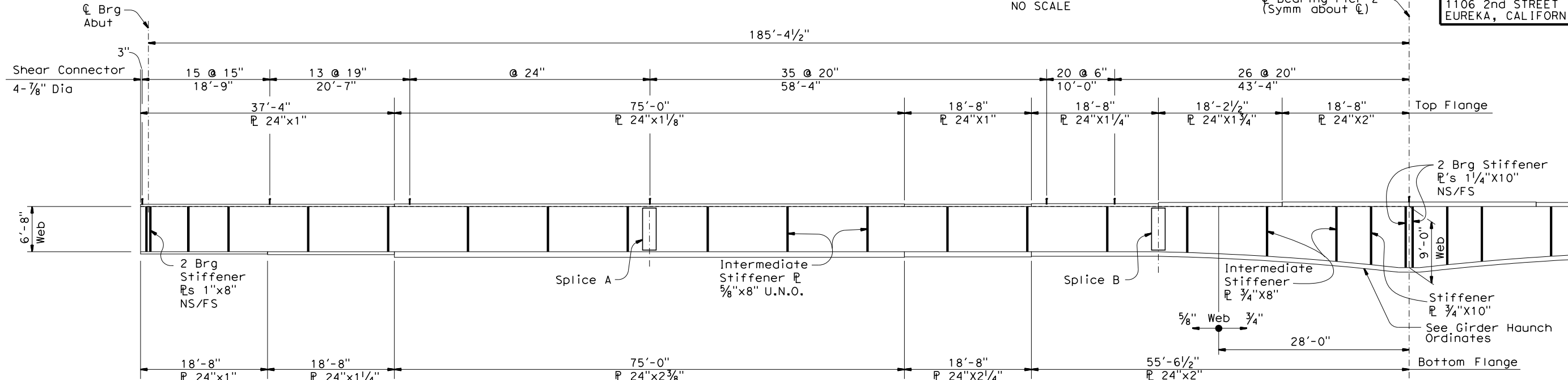
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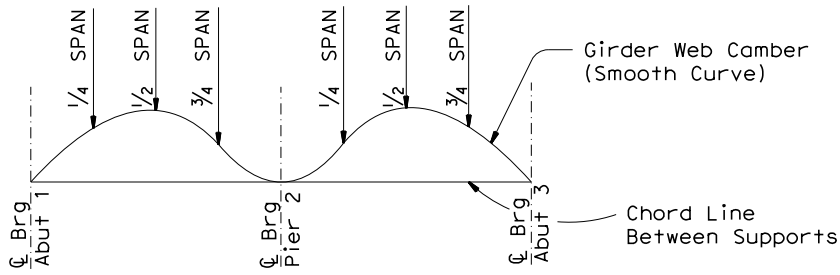
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GIRDER HAUNCH ORDINATES
NO SCALE

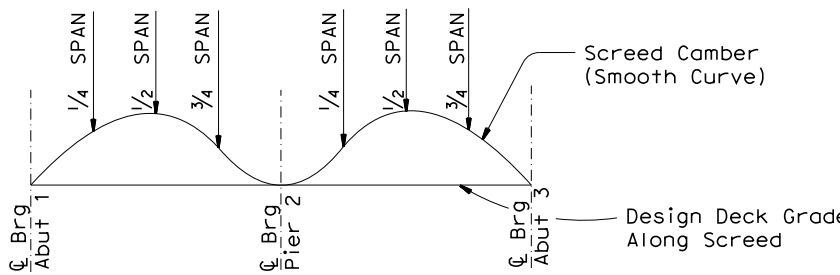


GIRDER ELEVATION
1/8" = 1'-0"



WEB CAMBER (WC) DIAGRAM

Fabricate girder web to WC curve shown when performing fabrication in a no-load condition.



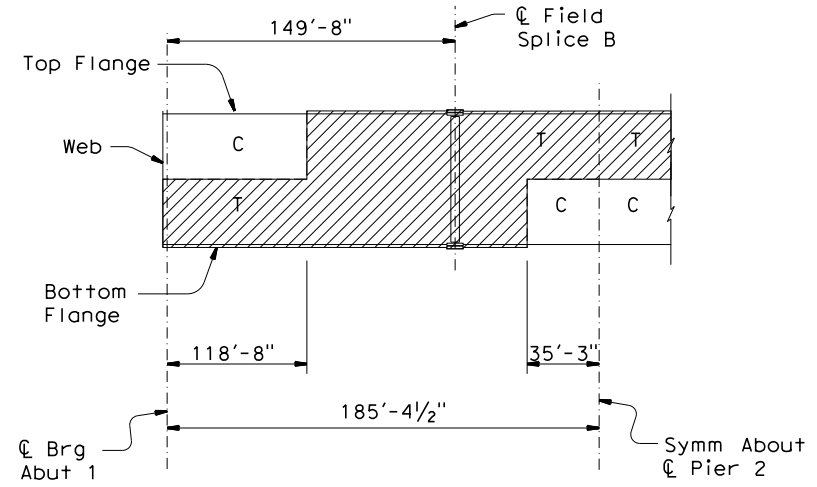
SCREED CAMBER (SC) DIAGRAM

Adjust screed grades to SC Curve shown before the start of any concrete deck placing and after erection of all girders that influence deflection.

CAMBER TABLE

GIRDER	CAMBER COMPONENTS	SPAN 1			SPAN 2		
		1/4	1/2	3/4	1/4	1/2	3/4
ALL GIRDERS	1. Deck	0.20	0.22	0.10	0.10	0.22	0.20
	2. Rail	0.01	0.02	0.01	0.01	0.02	0.01
	3. Deck Shrinkage	0.02	0.02	0.01	0.01	0.02	0.02
	4. Girder	0.08	0.09	0.04	0.04	0.09	0.08
	5. VERTICAL CURVE	0	0	0	0	0	0
	Sc = 1 + 2 + 3	0.23	0.26	0.12	0.12	0.26	0.23
	wc = 1 through 5	0.31	0.35	0.16	0.16	0.35	0.31

NOTE:
 Camber values are in feet and are measured upwards from reference line.
 Header grades will be determined by Engineer.
 Sc = Screed camber; wc = Web Camber



MEMBER DESIGNATION

NO SCALE

NOTES:
 T = Denotes Main Tension Member (Non-Fracture Critical).
 C = Denotes Main Compression Member.
 T and C zones shown extend to the middle depth of the web.



DESIGN	BY D. Roesner	CHECKED R. Valentine
DETAILS	BY J. Gallino	CHECKED R. Valentine
QUANTITIES	BY D. Roesner	CHECKED R. Morrison, Jr.

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Robert L. Morrison, Jr.
PROJECT ENGINEER

BRIDGE NO. 04C-0263
POST MILES

MATTOLE RIVER BRIDGE ON MATTOLE ROAD (REPLACE)
GIRDER DETAILS No. 1

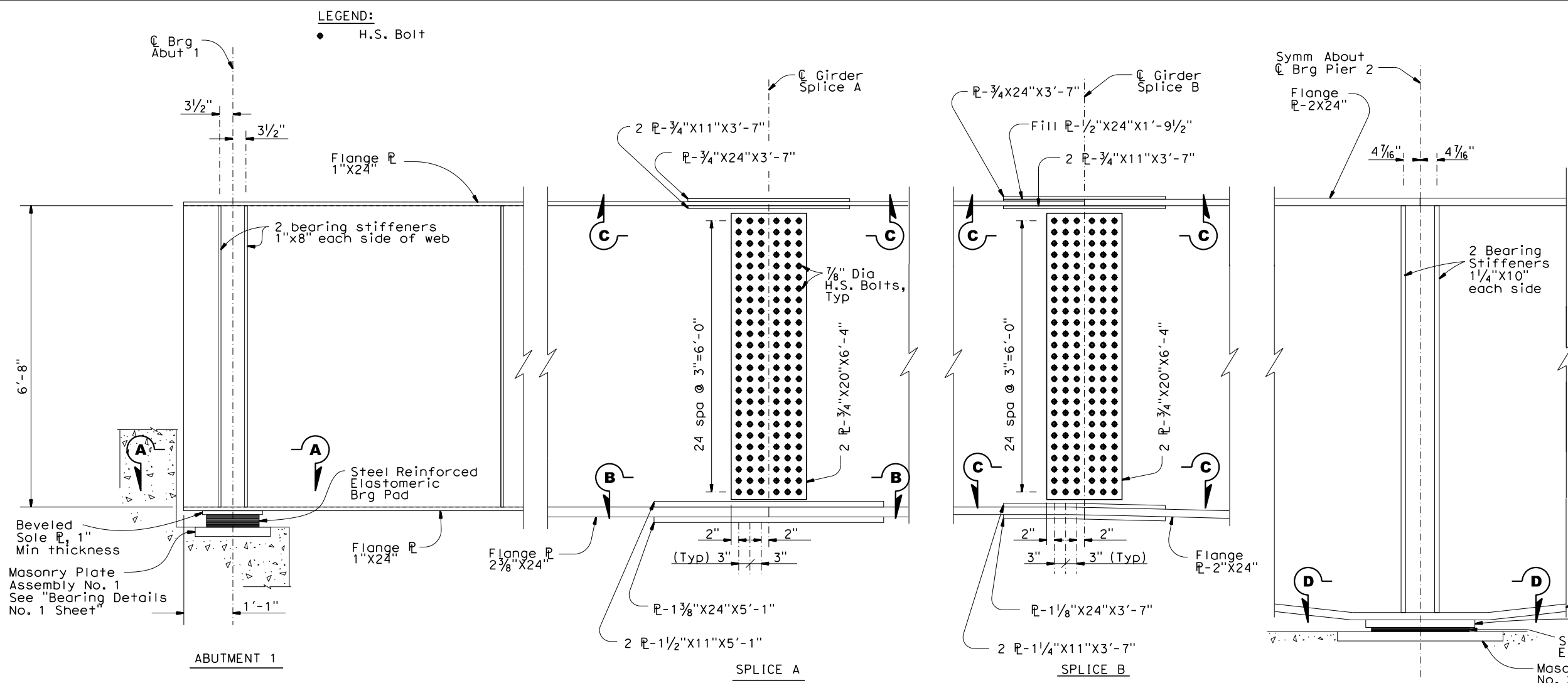
DIST	COUNTY	ROUTE	POST MILE TOTAL PROJECT	SHEET No	TOTAL SHEETS
1	Hum	Local		58	74

12/8/2023
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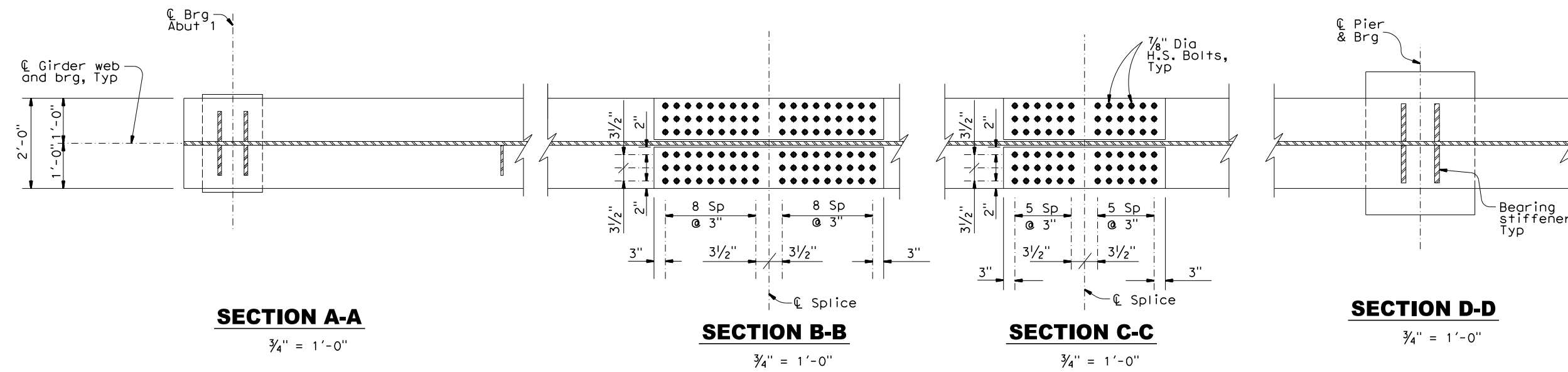
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 No. S3577
 Exp. 3-31-25
 STATE OF CALIFORNIA



PART ELEVATION

3/4" = 1'-0"

- NOTES:
1. Splice plates and bolt locations are symmetrical about C girder field splice.
 2. For location of splice plates A & B, and abutment & pier bearings see "Girder Layout" sheet.
 3. All Bolts shall be 7/8" Dia A325X.H.S. Bolts.



SECTION A-A

3/4" = 1'-0"

SECTION B-B

3/4" = 1'-0"

SECTION C-C

3/4" = 1'-0"

SECTION D-D

3/4" = 1'-0"



DESIGN	BY D. Roesner	CHECKED R. Valentine
DETAILS	BY J. Gallino	CHECKED R. Valentine
QUANTITIES	BY D. Roesner	CHECKED R. Morrison, Jr.

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Robert L. Morrison, Jr.
 PROJECT ENGINEER

BRIDGE NO.
 04C-0263
 POST MILES

MATTOLE RIVER BRIDGE ON MATTOLE ROAD (REPLACE)
GIRDER DETAILS No. 2

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

DISREGARD PRINTS BEARING EARLIER REVISION DATES	10/13/23	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET 16 OF 32
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FILE => \$REQUEST

DATE PLOTTED => \$TIME USERNAME => \$USER

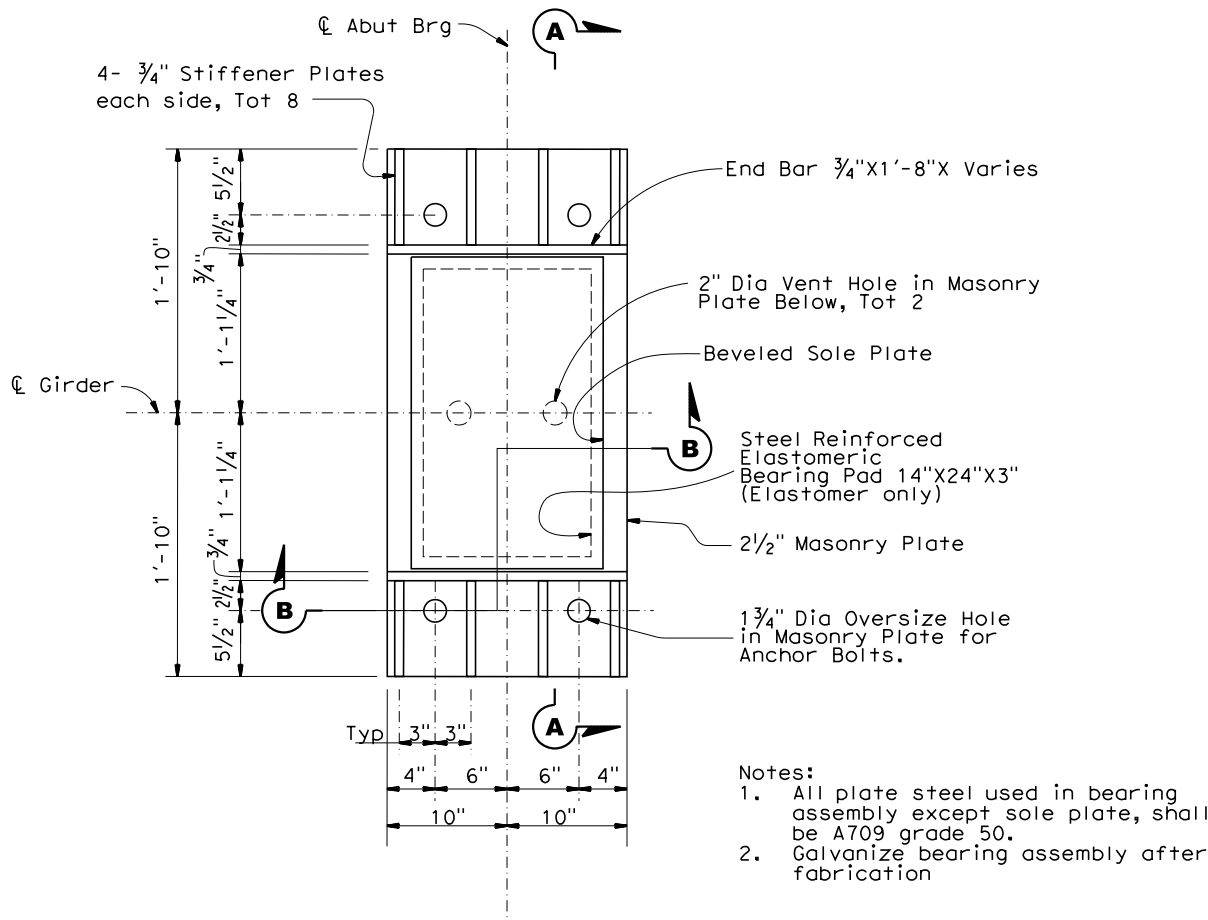
DIST	COUNTY	ROUTE	POST MILE TOTAL PROJECT	SHEET No	TOTAL SHEETS
1	Hum	Local		62	74

REGISTERED STRUCTURAL ENGINEER
 Robert Morrison, Jr.
 No. S3577
 Exp. 3-31-25
 STATE OF CALIFORNIA

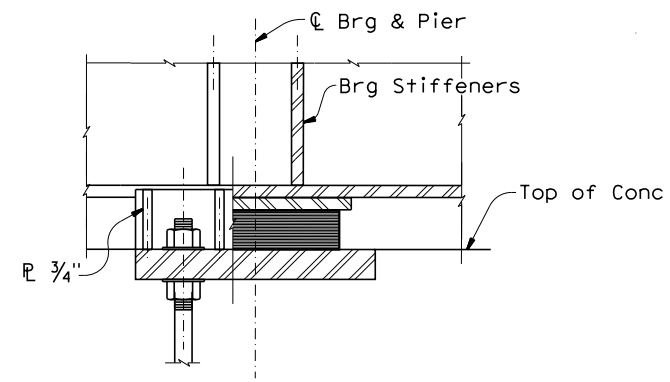
12/8/2023
 PLANS APPROVAL DATE

Prepared by:
 MORRISON STRUCTURES, INC.
 1890 PARK MARINA DRIVE, SUITE 104
 REDDING, CALIFORNIA 96001

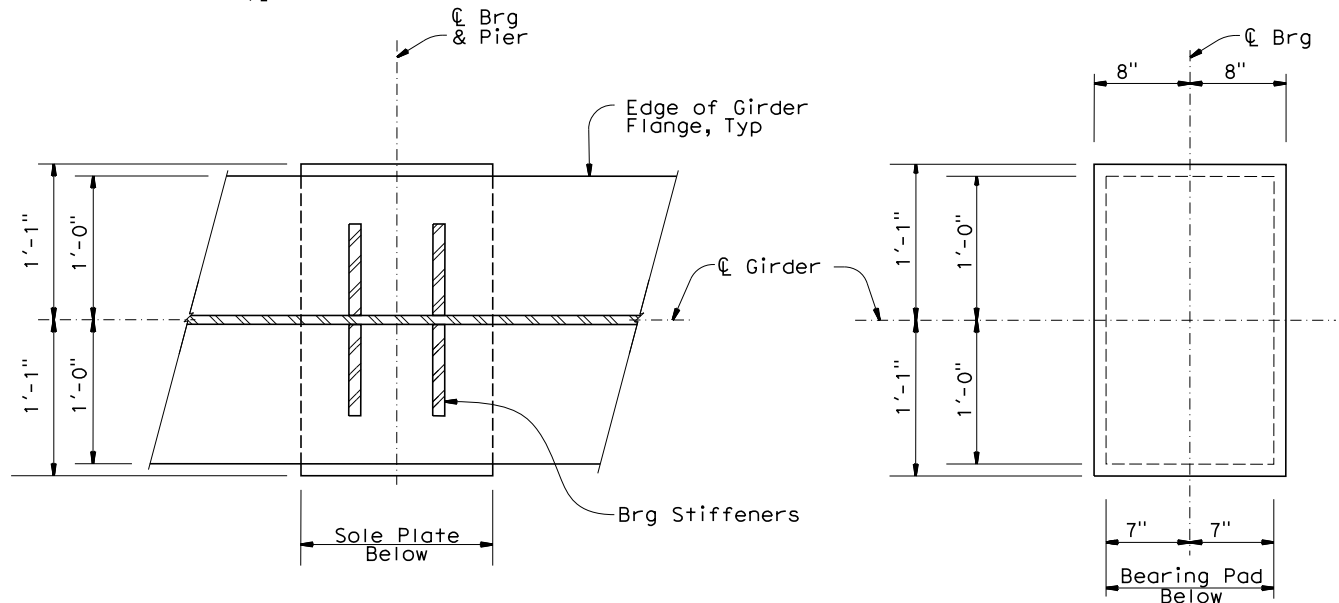
Prepared for:
 HUMBOLDT COUNTY PUBLIC WORKS DEPARTMENT
 1106 2nd STREET
 EUREKA, CALIFORNIA 95501



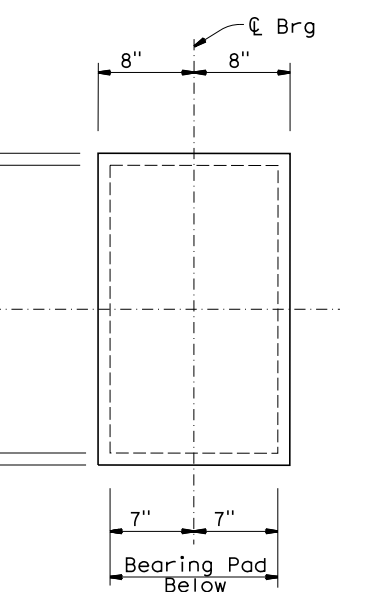
PLAN - MASONRY PLATE ASSEMBLY No. 1
1/2" = 1'-0"



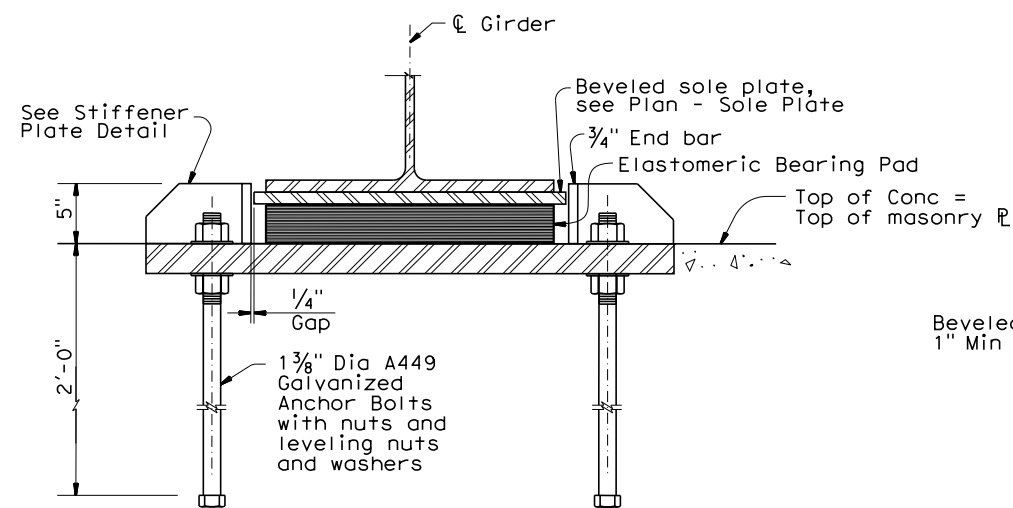
SECTION B-B
1/2" = 1'-0"



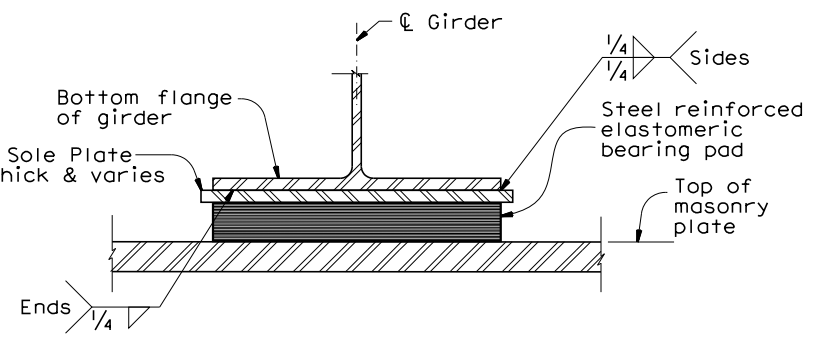
PLAN AT GIRDER BEARING
1/2" = 1'-0"



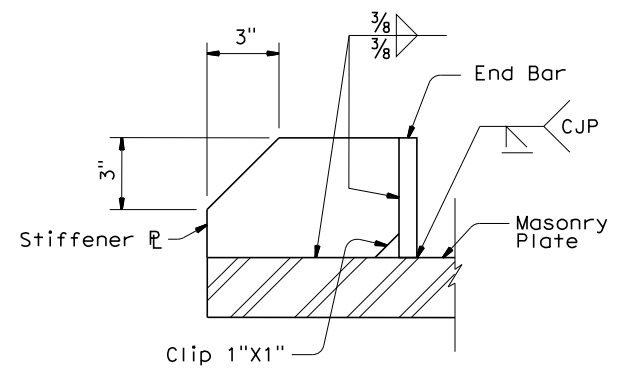
PLAN - SOLE PLATE
1/2" = 1'-0"



SECTION A-A
1/2" = 1'-0"



PART ELEVATION
1/2" = 1'-0"



STIFFENER PLATE DETAIL
3" = 1'-0"

MORRISON STRUCTURES

DESIGN	BY D. Roesner	CHECKED R. Valentine
DETAILS	BY J. Gallino	CHECKED R. Valentine
QUANTITIES	BY D. Roesner	CHECKED R. Morrison, Jr.

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Robert L. Morrison, Jr.
PROJECT ENGINEER

BRIDGE NO.
04C-0263
POST MILES

MATTOLE RIVER BRIDGE ON MATTOLE ROAD (REPLACE)
BEARING DETAILS No. 1

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

DISREGARD PRINTS BEARING EARLIER REVISION DATES

FILE => \$REQUEST

DATE PLOTTED => \$TIME USERNAME => \$USER

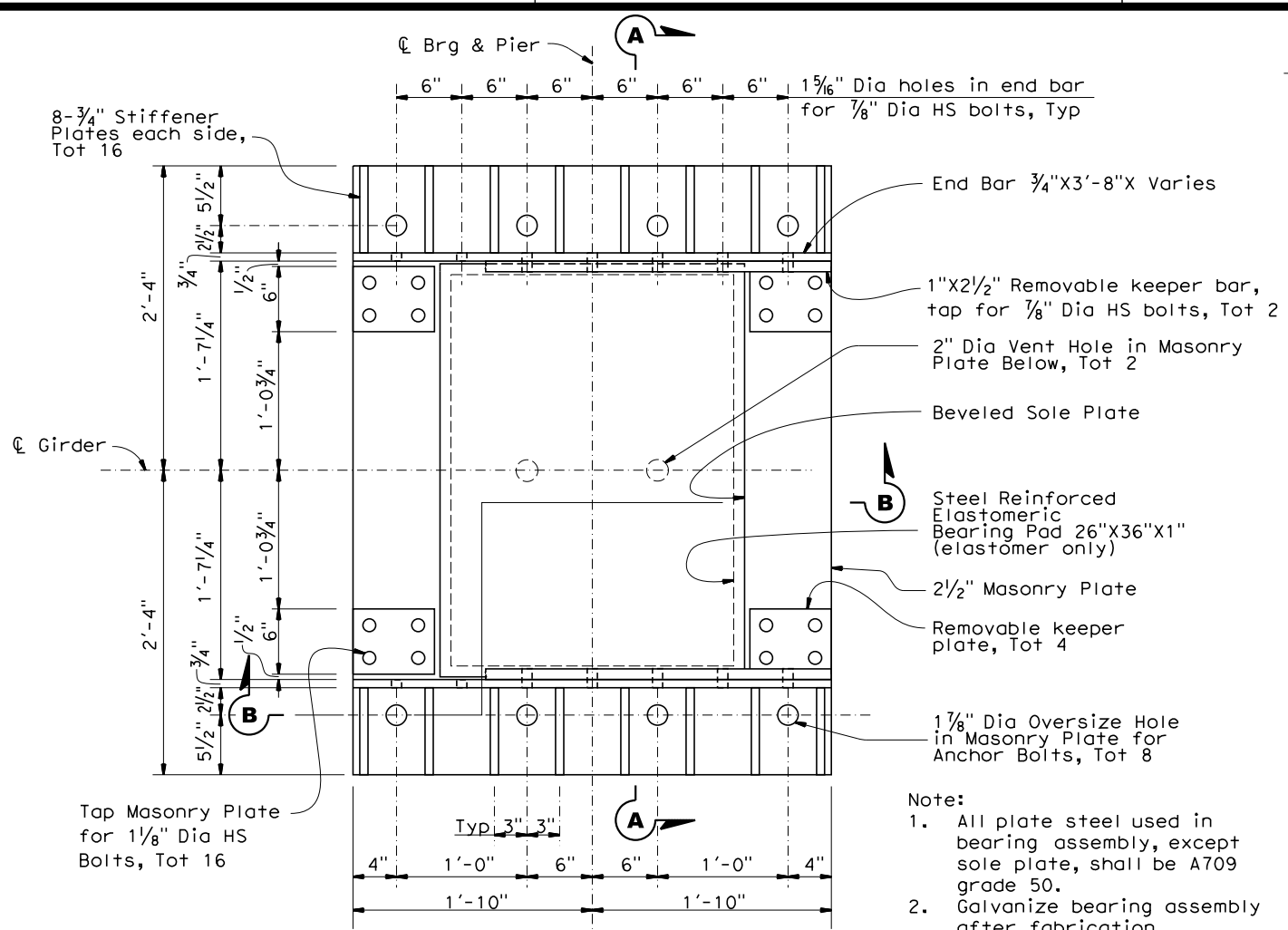
DIST	COUNTY	ROUTE	POST MILE TOTAL PROJECT	SHEET No	TOTAL SHEETS
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REGISTERED STRUCTURAL ENGINEER
 Robert Morrison, Jr.
 No. S3577
 Exp. 3-31-25
 STATE OF CALIFORNIA

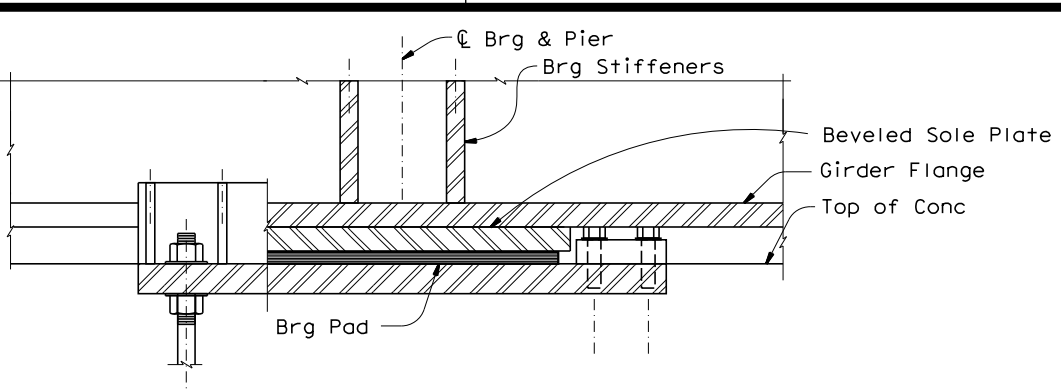
12/8/2023
 PLANS APPROVAL DATE

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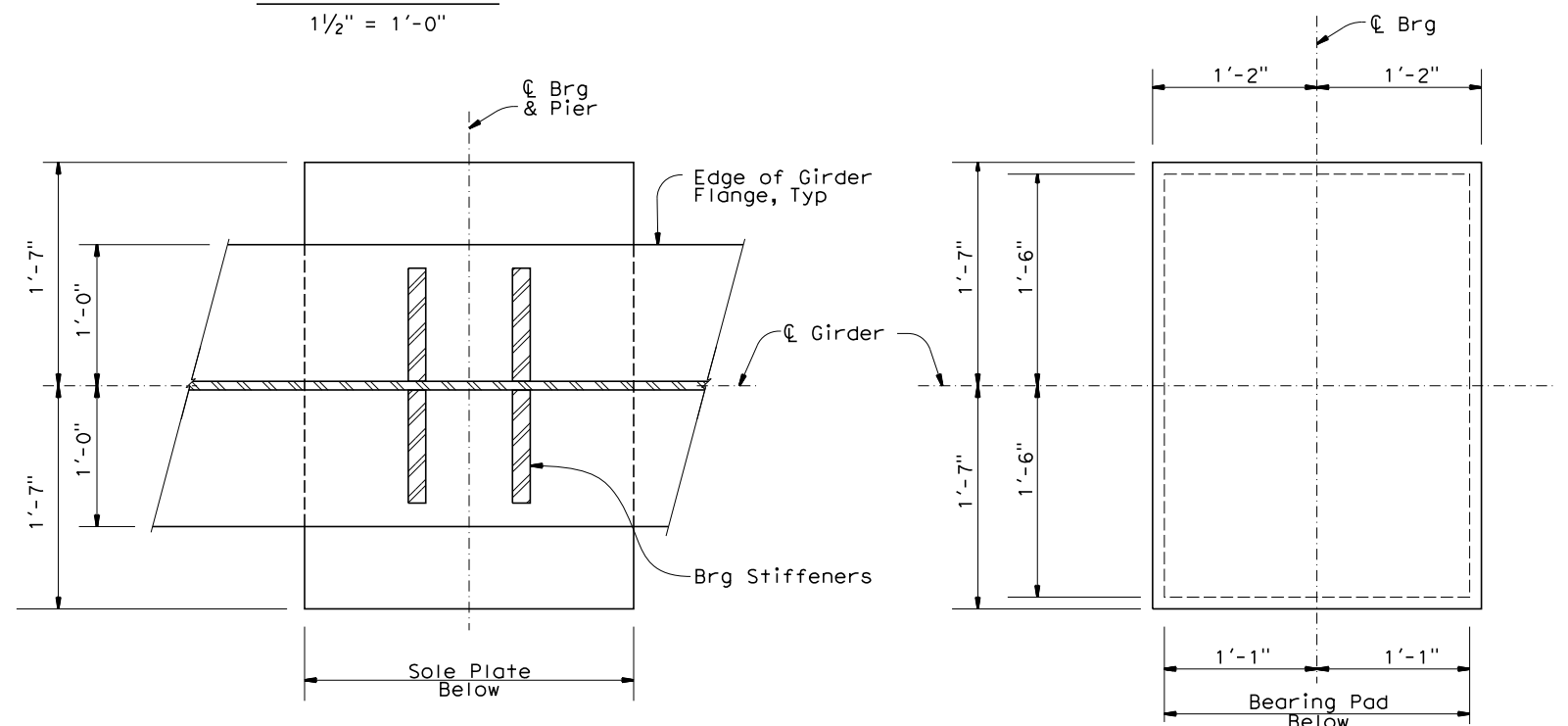
Prepared for:
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PLAN - MASONRY PLATE ASSEMBLY No. 2
1/2" = 1'-0"

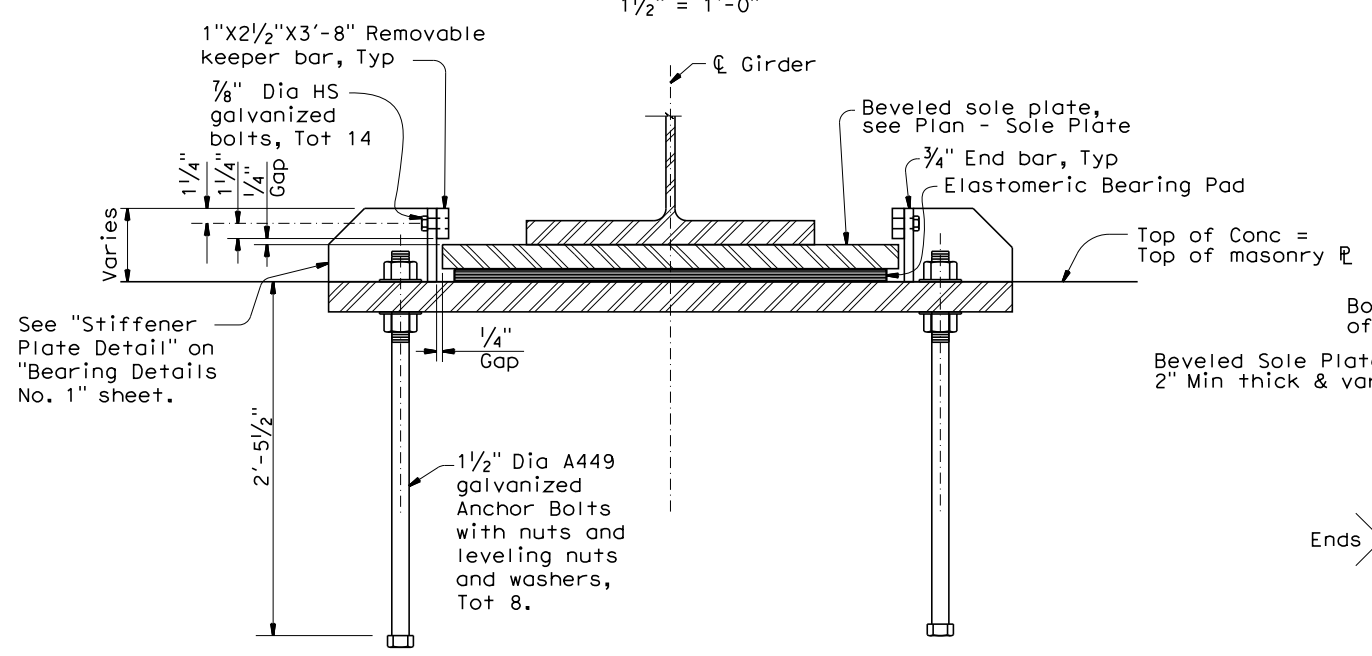


SECTION B-B
1/2" = 1'-0"

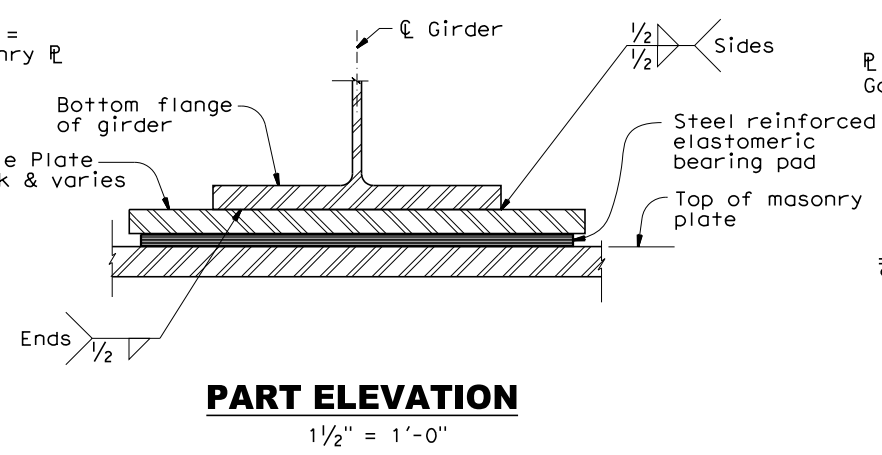


PLAN AT GIRDER BEARING
1/2" = 1'-0"

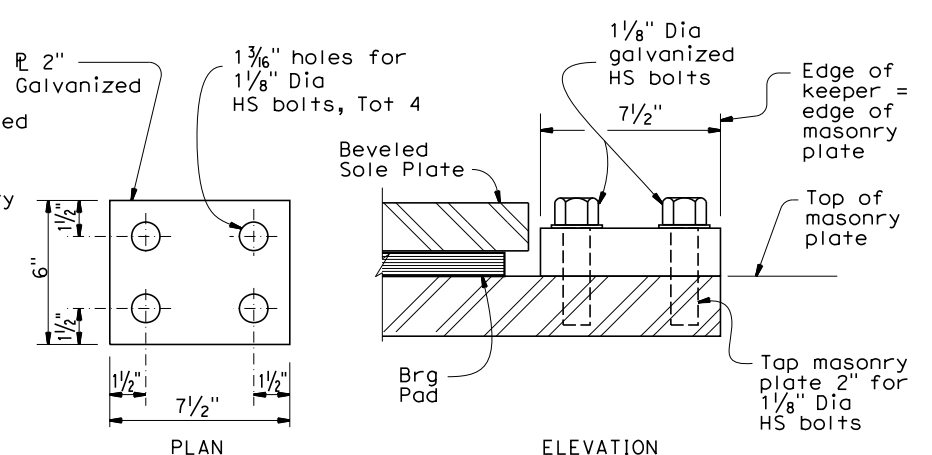
PLAN - SOLE PLATE
1/2" = 1'-0"



SECTION A-A
1/2" = 1'-0"



PART ELEVATION
1/2" = 1'-0"



REMOVABLE KEEPER PLATE DETAIL
3" = 1'-0"



DESIGN	BY D. Roesner	CHECKED R. Valentine
DETAILS	BY J. Gallino	CHECKED R. Valentine
QUANTITIES	BY D. Roesner	CHECKED R. Morrison, Jr.

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Robert L. Morrison, Jr.
 PROJECT ENGINEER

BRIDGE NO.
 04C-0263
 POST MILES

MATTOLE RIVER BRIDGE ON MATTOLE ROAD (REPLACE)
BEARING DETAILS No. 2

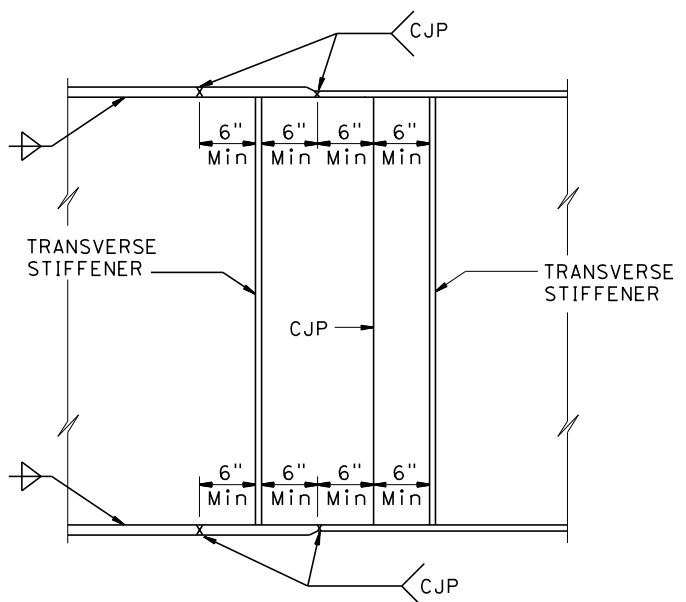
DIST	COUNTY	ROUTE	POST MILE TOTAL PROJECT	SHEET No	TOTAL SHEETS
1	Hum	Local		64	74

REGISTERED STRUCTURAL ENGINEER
 Robert Morrison, Jr.
 No. S3577
 Exp. 3-31-25
 STATE OF CALIFORNIA

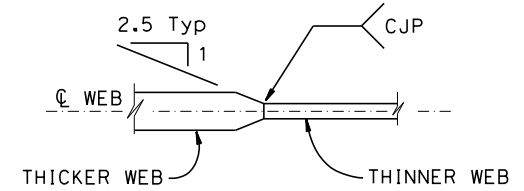
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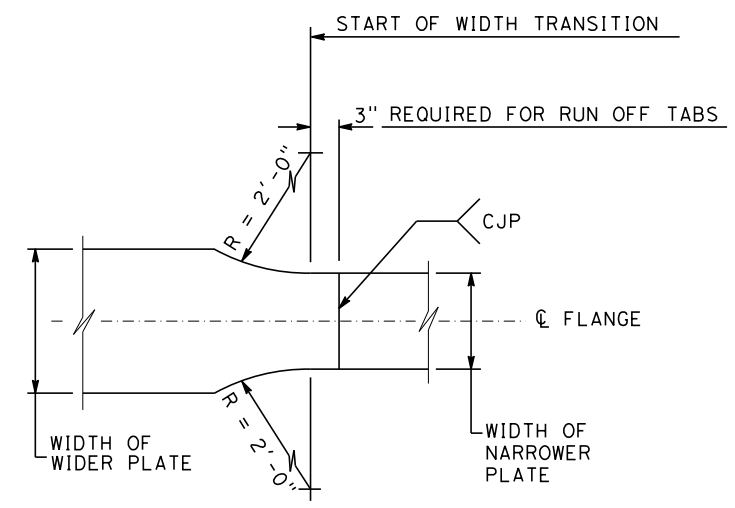
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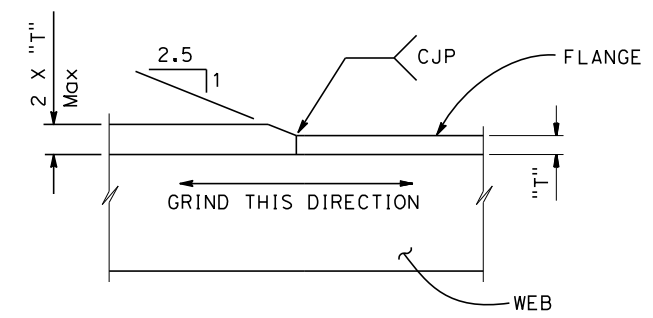
GIRDER SHOP SPLICE



WEB THICKNESS



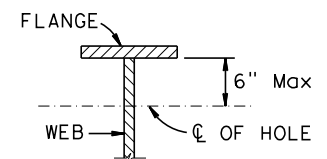
FLANGE WIDTH



FLANGE THICKNESS

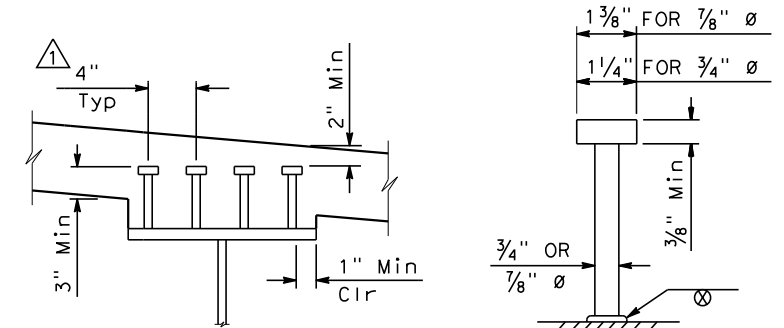
NOTES:

- Alternative girder splices may be permitted subject to approval by the Engineer
- Web splices:
Grind all weld surfaces flush on the exterior face of exterior girders
- Flange splices:
Grind all weld surfaces flush on tension flanges.
Grind all weld surfaces flush on compression flanges when required for non-destructive testing (NDT)
Grind all exterior weld surfaces flush on all bottom compression flanges



1" Max ϕ HOLE AT 4' \pm Min SPACING TO BE USED FOR FALSEWORK SUPPORT WHEN SPECIFIED BY THE CONTRACTOR. CONTRACTOR TO DETERMINE LOCATION, SIZE AND SPACING
 2" Max ϕ HOLE TO BE DRILLED WHERE LIGHTING CONDUIT PASSES THROUGH GIRDER WEB. FOR LOCATION AND SIZE OF HOLE SEE "ROAD PLANS"

HOLES FOR CONDUIT AND FALSEWORK



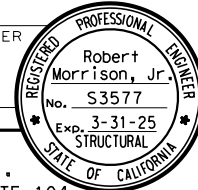
LENGTHS OF STUDS TO BE DETERMINED BY THE CONTRACTOR, MINIMUM LENGTH IS 6"
 ALTERNATIVE TYPES OF SHEAR CONNECTORS MAY BE PERMITTED SUBJECT TO APPROVAL BY THE ENGINEER

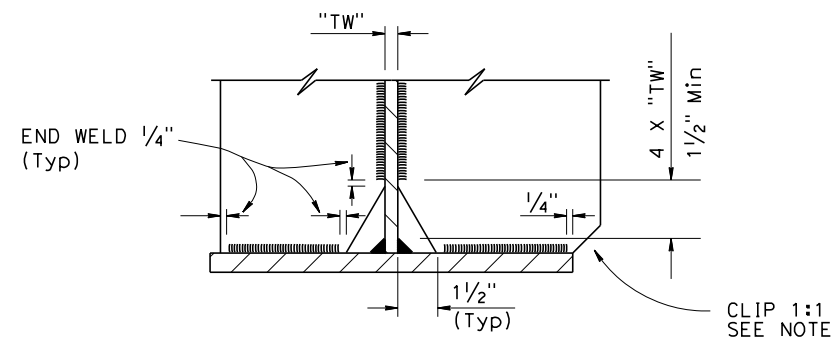
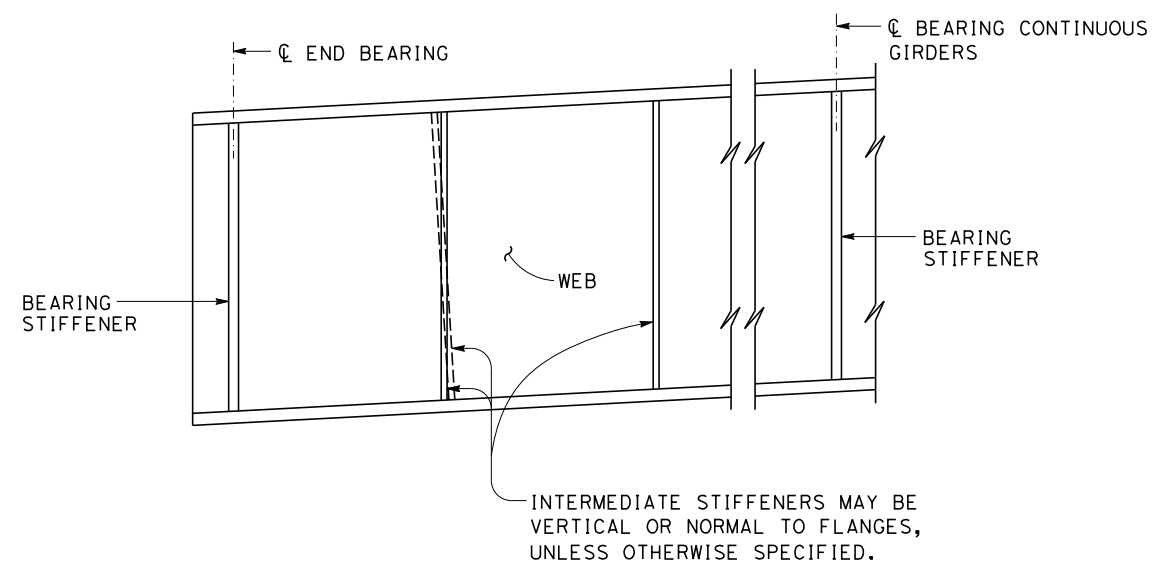
STUD CONNECTOR

NO SCALE

BRIDGE STANDARD DETAILS xs1-410-1 FILE NO.		7-6-16 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		Revised Stud Spacing		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES		BRIDGE NO. 04C-0263 POST MILE		MATTOLE RIVER BRIDGE ON MATTOLE ROAD (REPLACE) STEEL GIRDER SHOP SPLICE & STUD CONNECTOR DETAILS	
Refer to: https://www.dot.ca.gov/hq/esc/techpubs/manual/bridgemanuals/bridge-standard-detail-sheets/index.html		FILE => \$REQUEST USERNAME => \$USER		TIME PLOTTED => \$TIME		DATE PLOTTED => \$DATE		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: PROJECT NUMBER & PHASE:		CONTRACT NO.:		DISREGARD PRINTS BEARING EARLIER REVISION DATES	
												REVISION DATES: 6-18-14, 7-6-16		SHEET 22 OF 32	

DATE PLOTTED => \$DATE TIME PLOTTED => \$TIME

DIST	COUNTY	ROUTE	POST MILE TOTAL PROJECT	SHEET No	TOTAL SHEETS
1	Hum	Local		65	74
					
12/8/2023 PLANS APPROVAL DATE					
Prepared by: MORRISON STRUCTURES, INC. 1890 PARK MARINA DRIVE, SUITE 104 REDDING, CALIFORNIA 96001					
Prepared for: HUMBOLDT COUNTY PUBLIC WORKS DEPARTMENT 1106 2nd STREET EUREKA, CALIFORNIA 95501					



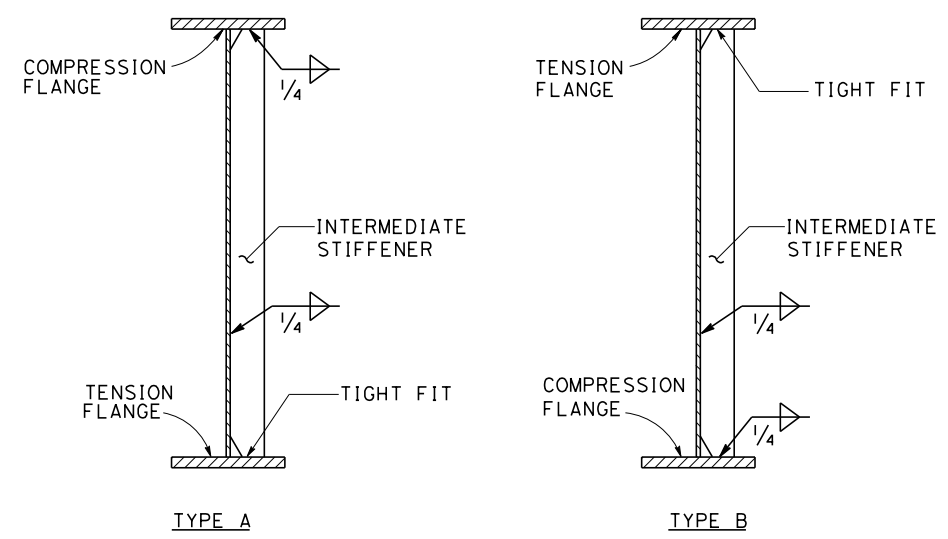
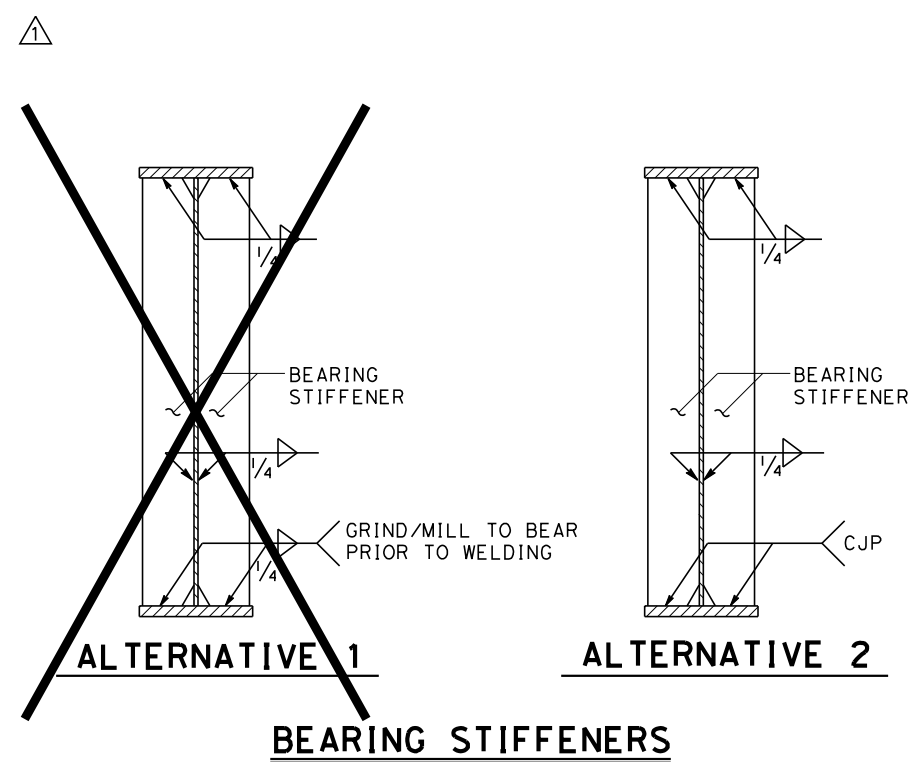
COPE AND WELDING DETAIL

NOTE: Omit clip at bottom flange when less than 2".

TRANSVERSE STIFFENERS

NOTES:

- Under full dead load as shown on the camber diagram, girder ends and bearing stiffeners shall be vertical except they may be normal to grade for grades less than 2%.
- For intermediate stiffeners which have Cross Frames or Diaphragms attached, see xs1-410-3 "STEEL GIRDER CONNECTION STIFFENER DETAILS" sheet.
- For Bearing Stiffeners which have Cross Frames or Diaphragms attached, use details shown on this sheet. For top tension flange alternative connection see "ALTERNATIVE 3 BOLTED CONNECTION" detail on xs1-410-3 "STEEL GIRDER CONNECTION STIFFENER DETAILS" sheet. See Project Plan sheets for locations where bolted connection is required.
- For stiffener sizes see Project Plan sheets.



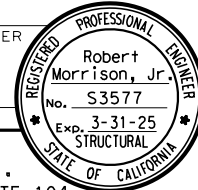
INTERMEDIATE STIFFENERS

(WITHOUT CROSS FRAME ATTACHED)
(ONE-SIDE STIFFENER SHOWN, OTHER SIDE SIMILAR)

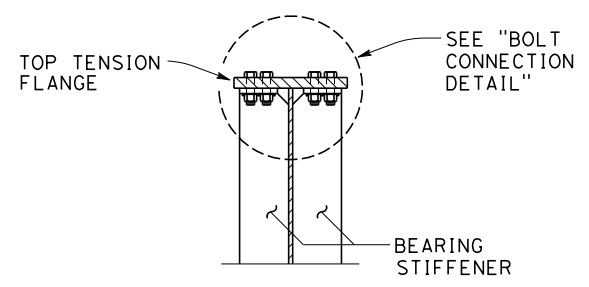
NO SCALE

BRIDGE STANDARD DETAILS xs1-410-2 FILE NO.		April 2017 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.	Eliminate Alternative	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 04C-0263 POST MILES	MATTOLE RIVER BRIDGE ON MATTOLE ROAD (REPLACE) STEEL GIRDER TRANSVERSE STIFFENER DETAILS	REVISION DATES 6-18-14 7-4-16 3-6-17	SHEET 23	OF 32
Refer to: https://www.dot.ca.gov/hq/esc/techpubs/manual/bridgemanuals/bridge-standard-detail-sheets/index.html		FILE => #REQUEST USERNAME => #USER	TIME PLOTTED => \$TIME	DATE PLOTTED => \$DATE	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: PROJECT NUMBER & PHASE:	CONTRACT NO.:	DISREGARD PRINTS BEARING EARLIER REVISION DATES			

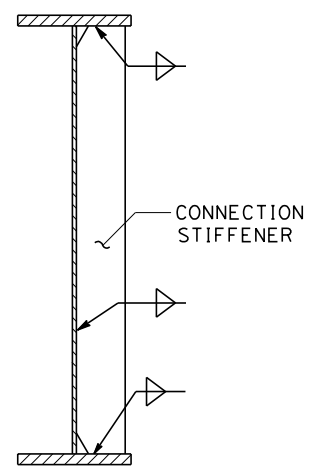
DIST	COUNTY	ROUTE	POST MILE TOTAL PROJECT	SHEET No	TOTAL SHEETS
1	Hum	Local		66	74



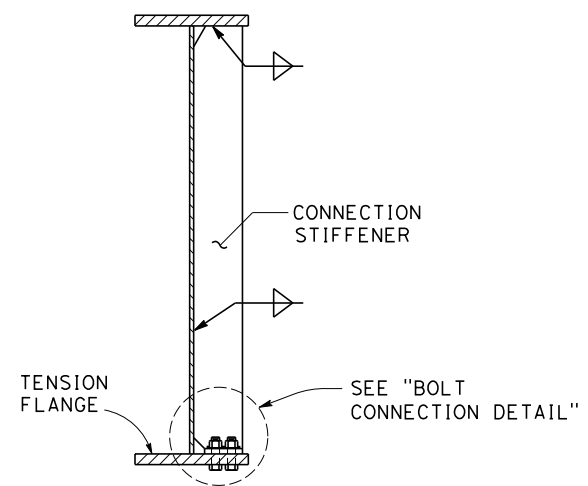
 REGISTERED STRUCTURAL ENGINEER
 12/8/2023
 PLANS APPROVAL DATE
 Prepared by:
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 1890 PARK MARINA DRIVE, SUITE 104
 REDDING, CALIFORNIA 96001
 Prepared for:
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**ALTERNATIVE 3
BOLTED CONNECTION**



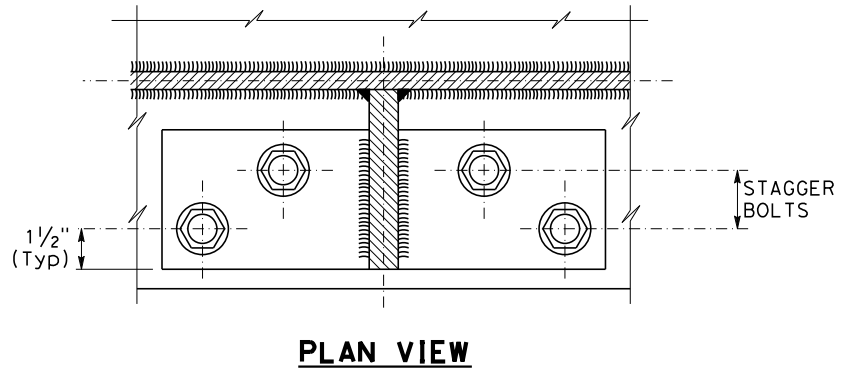
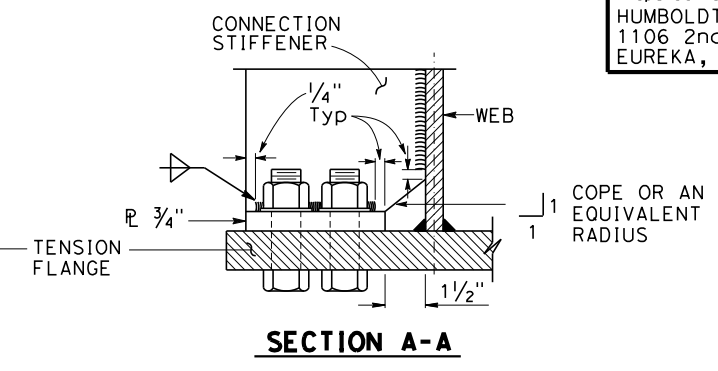
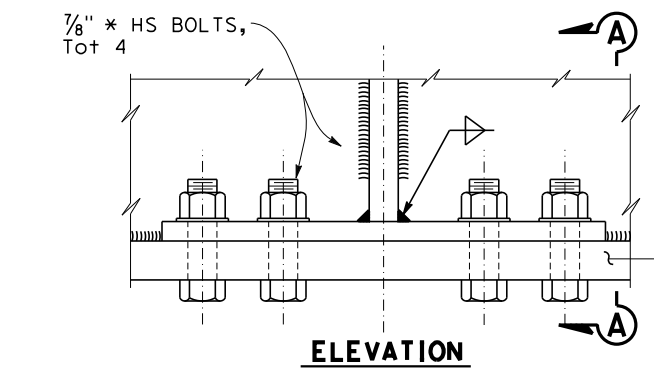
**ALTERNATIVE 1
WELDED CONNECTION**



**ALTERNATIVE 2
BOLTED CONNECTION**

CONNECTION STIFFENER

CROSS FRAME OR DIAPHRAGM NOT SHOWN
(ONE-SIDE STIFFENER SHOWN, OTHER SIDE SIMILAR)



BOLT CONNECTION DETAIL

FOR 3/4" PLATE:
 WIDTH TO BE AS DRAWN.
 LENGTH TO BE MINIMUM TO PROVIDE FOR INSTALLATION CLEARANCE AND 2 5/8" C-C BETWEEN ADJACENT BOLTS.

- NOTES:
1. For stiffener sizes see Project Plan sheets.
 2. See Project Plan sheets for locations where where bolted connection is required.

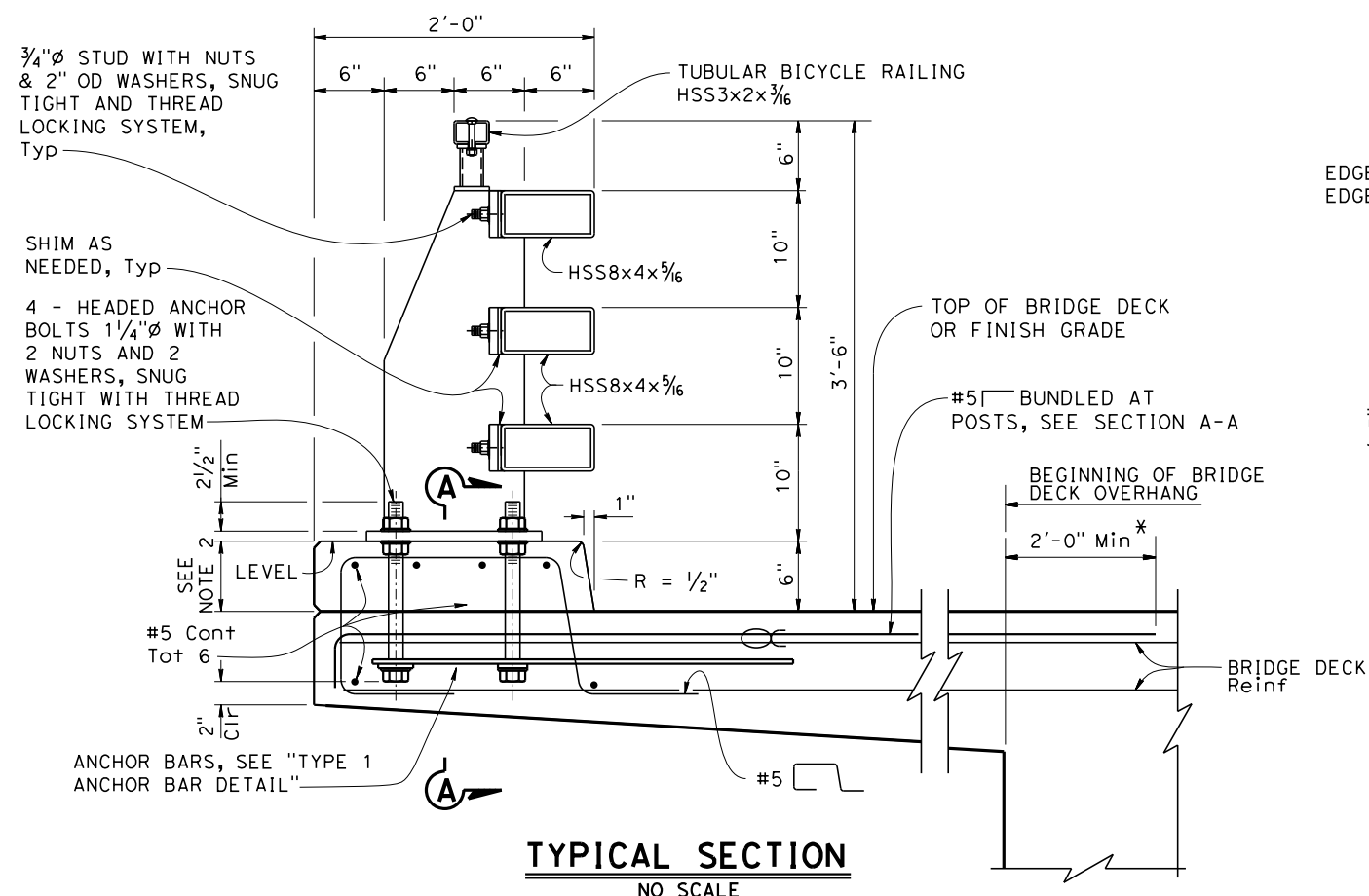
NO SCALE

BRIDGE STANDARD DETAILS xs1-410-3 <small>FILE NO.</small>		<small>APPROVAL DATE</small> April 2017	<small>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</small>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	<small>BRIDGE NO.</small> 04C-0263 <small>POST MILE</small>	MATTOLE RIVER BRIDGE ON MATTOLE ROAD (REPLACE) STEEL GIRDER CONNECTION STIFFENER DETAILS	<small>REVISION DATES</small> 6-18-14 7-4-16 3-6-17	<small>SHEET OF</small> 24 32
<small>Refer to: https://www.dot.ca.gov/hq/esc/techpubs/manual/bridgemanuals/bridge-standard-detail-sheets/index.html</small>		<small>FILE => \$REQUEST</small> <small>USERNAME => \$USER</small>	<small>TIME PLOTTED => \$TIME</small> <small>DATE PLOTTED => \$DATE</small>	<small>ORIGINAL SCALE IN INCHES FOR REDUCED PLANS</small> 0 1 2 3	<small>UNIT: PROJECT NUMBER & PHASE:</small>	<small>CONTRACT NO.:</small>	<small>DISREGARD PRINTS BEARING EARLIER REVISION DATES</small>	<small>6-18-14 7-4-16 3-6-17</small>	<small>SHEET OF</small> 24 32

USERNAME => \$USER DATE PLOTTED => \$DATE TIME PLOTTED => \$TIME

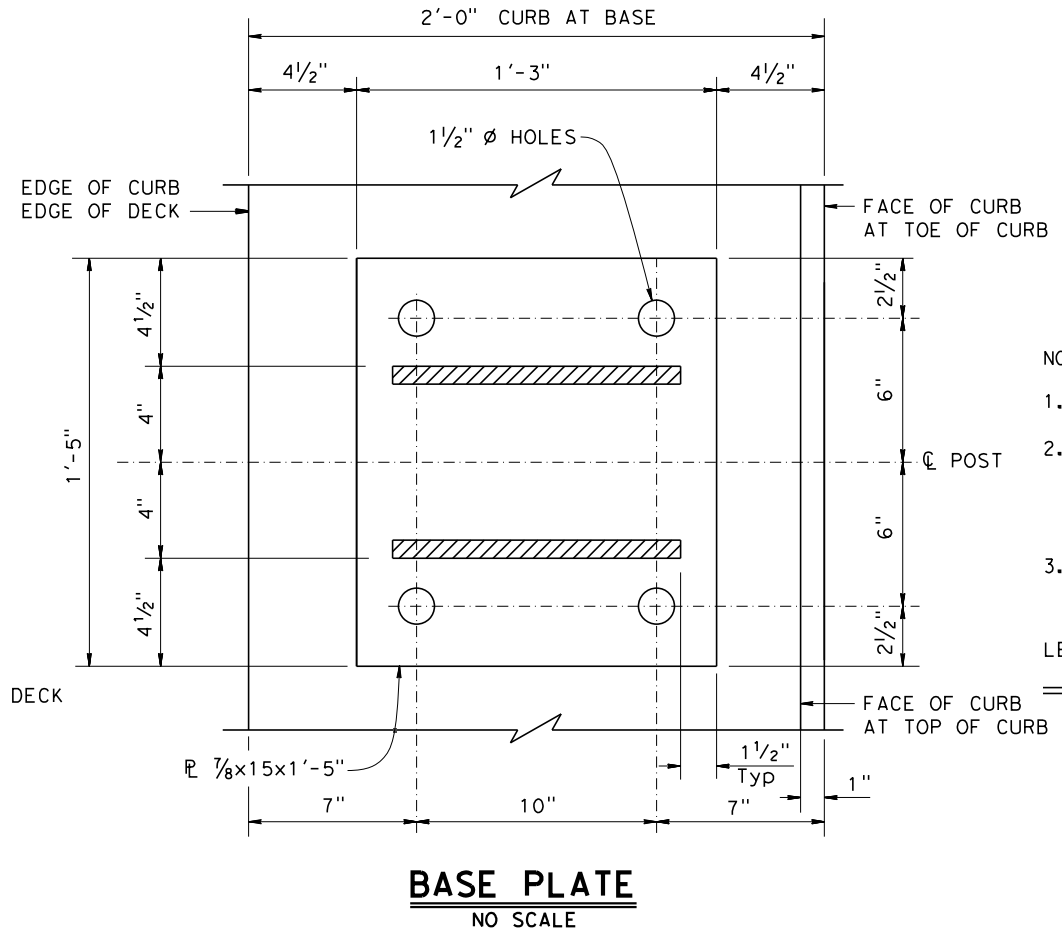
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
1	Hum	Local		67	74

REGISTERED STRUCTURAL ENGINEER Robert Morrison, Jr. No. S3577 Exp. 3-31-25 STRUCTURAL ENGINEER STATE OF CALIFORNIA	
12/8/2023 PLANS APPROVAL DATE	
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TYPICAL SECTION
NO SCALE

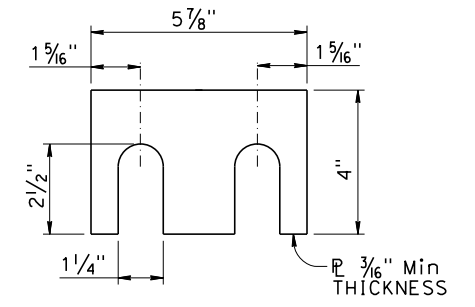
* #5 Bundled at posts to extend 2'-0" Min beyond beginning of bridge deck overhang.



BASE PLATE
NO SCALE

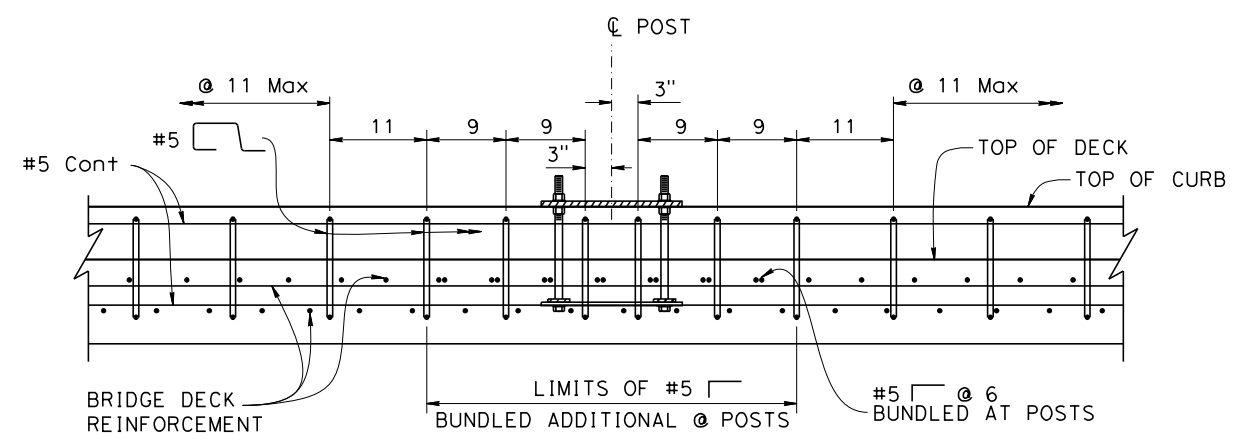
- NOTES:
- Anchor bolts may be tack welded to anchor bars.
 - Curb dimension at back side of rail will vary with bridge deck cross slope, and if overlay is placed on the bridge deck. For the same reasons, the anchor bolt lengths will vary.
 - Use extra thick washers for anchor bolts, with a minimum thickness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

LEGEND:
 Bundled reinforcement



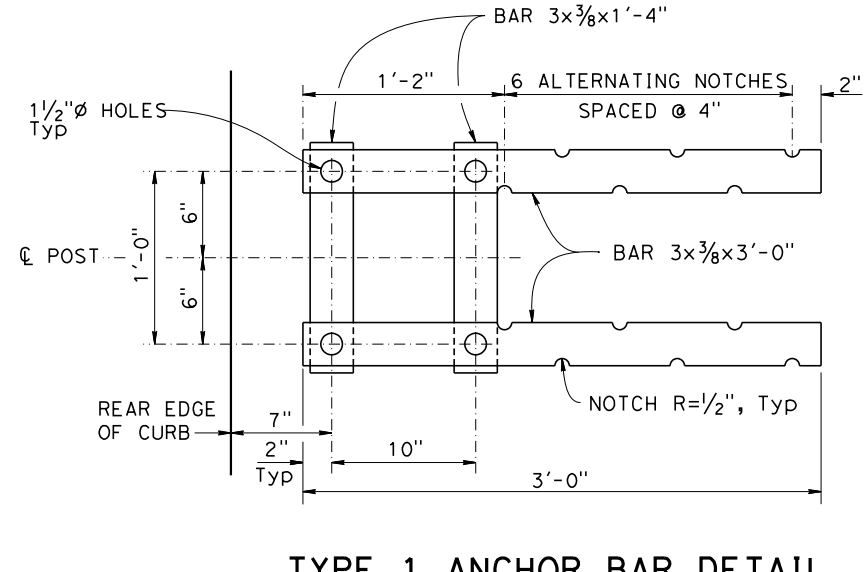
SHIM DETAIL
NO SCALE

NOTE:
Shim as needed between posts and HSS rail tubes.

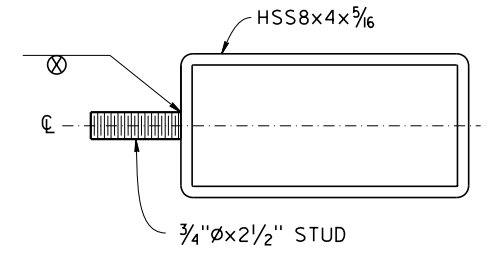


SECTION A-A
NO SCALE

NOTE: Post not shown for clarity.



TYPE 1 ANCHOR BAR DETAIL
NO SCALE



RAIL SECTION AT POST
NO SCALE

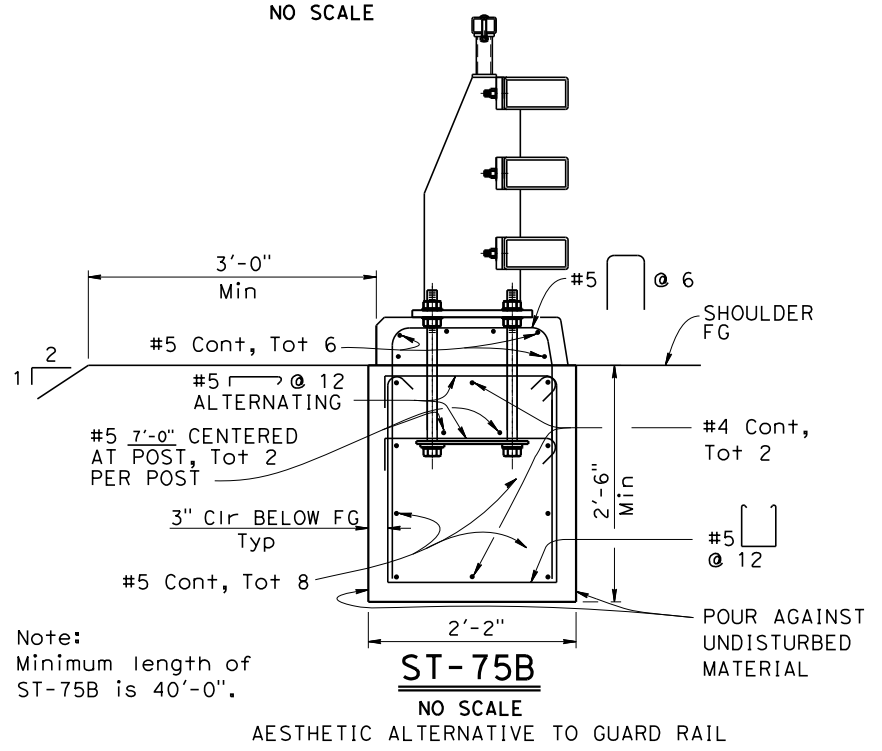
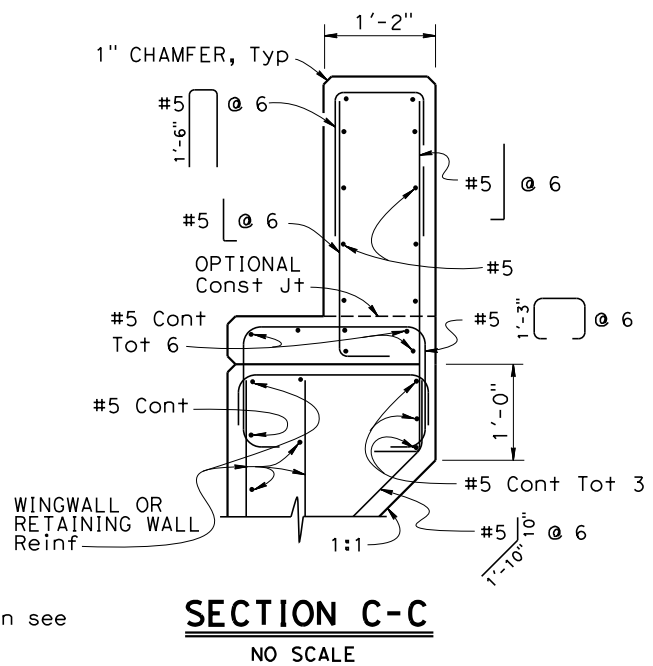
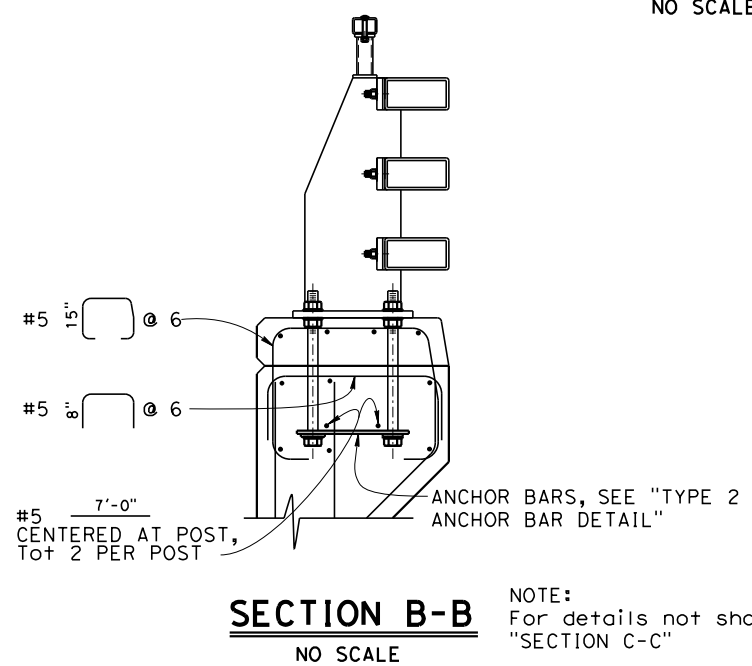
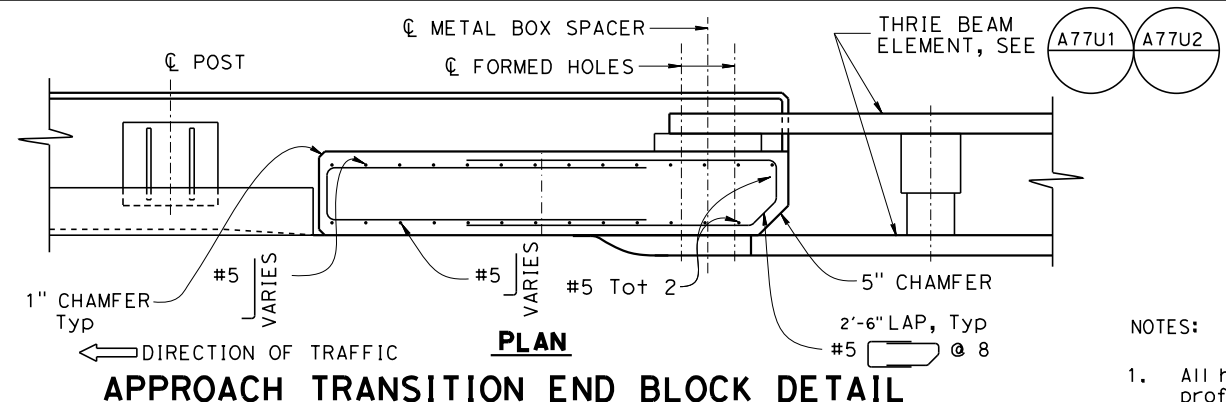
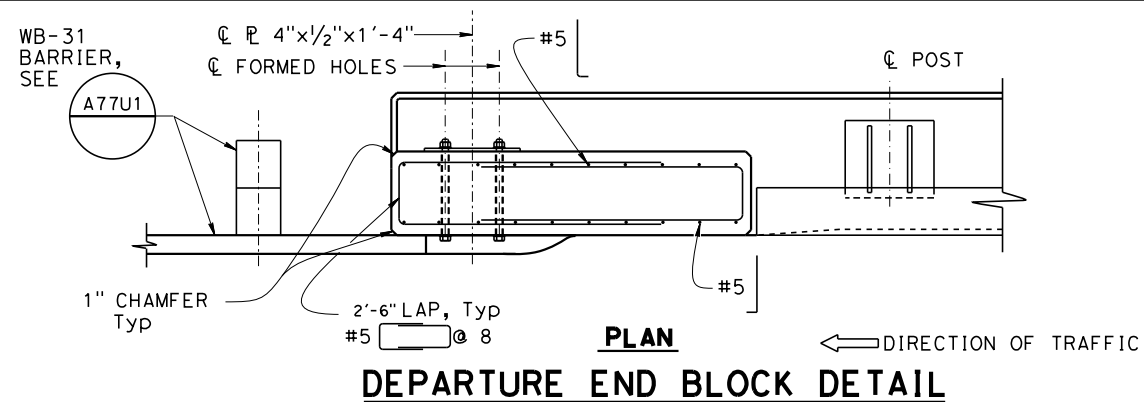
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
1	Hum	Local		68	74

REGISTERED STRUCTURAL ENGINEER
 Robert Morrison, Jr.
 No. S3577
 Exp. 3-31-25
 STATE OF CALIFORNIA

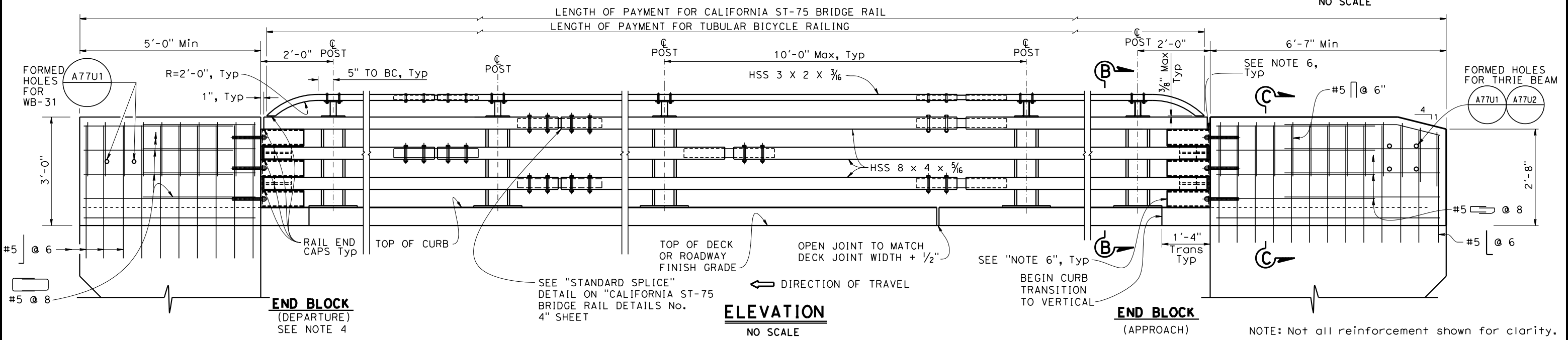
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- NOTES:
- All horizontal members are parallel to longitudinal profile grade.
 - Posts are normal to profile grade of structure.
 - Posts are vertical to the transverse cross section.
 - If departure end block is within the Clear Recovery Zone (CRZ, 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-75 BRIDGE RAIL DETAILS No. 5" SHEET.
- BAR 3x3/8x1'-4"
 1/2" Ø HOLES, Typ 2", Typ
 TOE OF CURB
 TOP OF CURB
 BAR 3x3/8x1'-2"
 BACK OF CURB/ OUTER FACE OF WALL
 7" 10" 7"
- TYPE 2 ANCHOR BAR DETAIL**
NO SCALE



BRIDGE STANDARD DETAILS xs16-116-2 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.	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE No. 04C-0263 POST MILE	MATTOLE RIVER BRIDGE ON MATTOLE ROAD (REPLACE) CALIFORNIA ST-75 BRIDGE RAIL DETAILS No. 2
Refer to: http://www.dot.ca.gov/hq/esc/techpubs/manual/bridgemanuals/bridge-standard-detail-sheets/index.html		DATE PLOTTED => #DATE FILE => #REQUEST	TIME PLOTTED => #TIME USERNAME => #USER	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: PROJECT NUMBER & PHASE:	CONTRACT No.:	DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES: 12/17/19, 6/2/22, 7/5/22 SHEET 26 OF 32

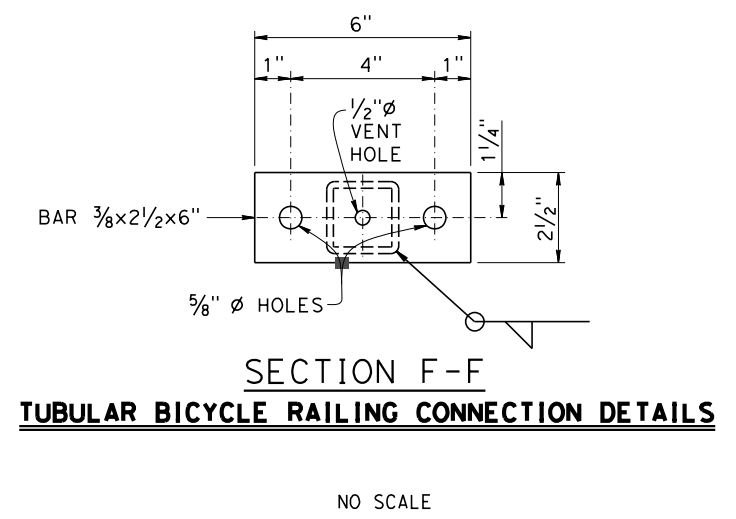
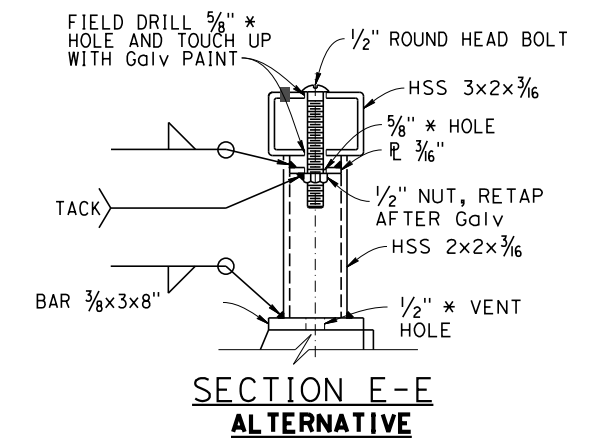
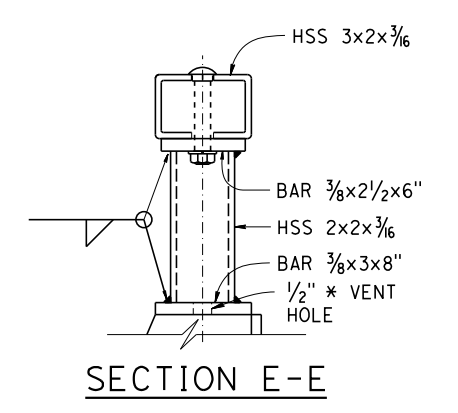
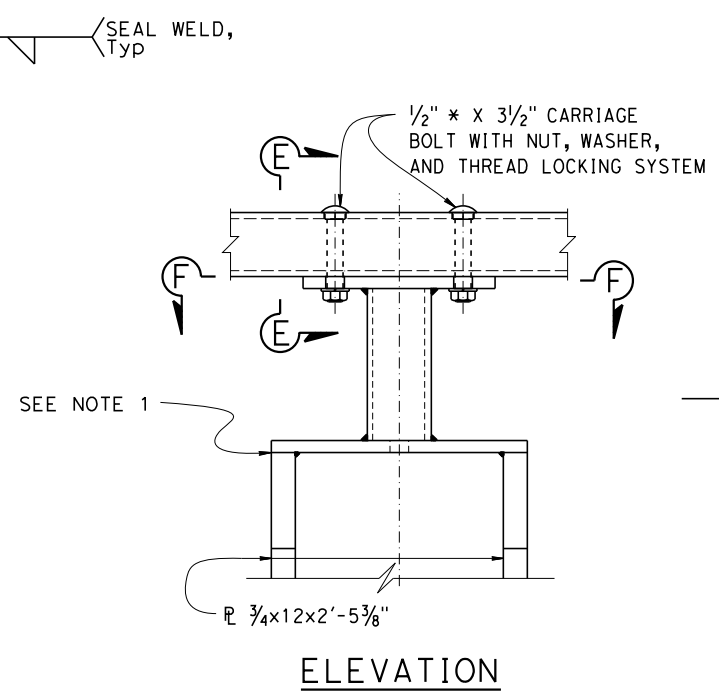
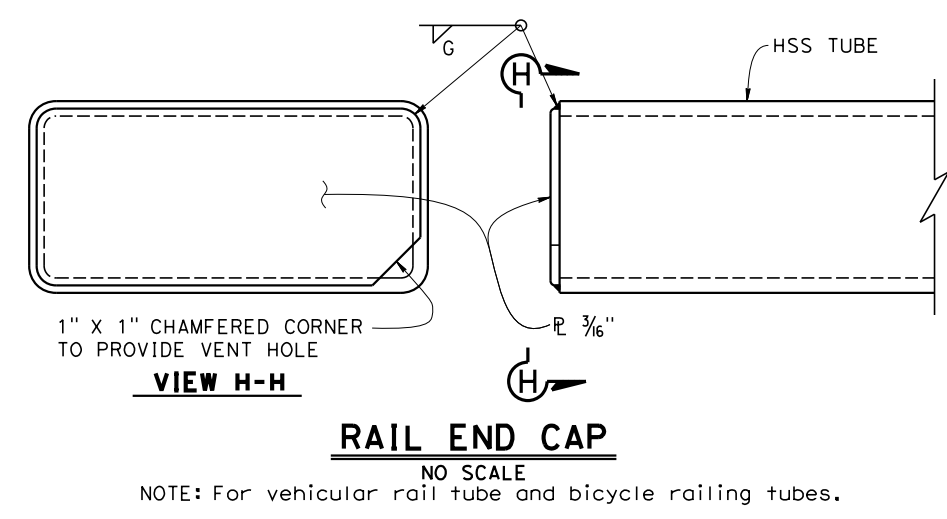
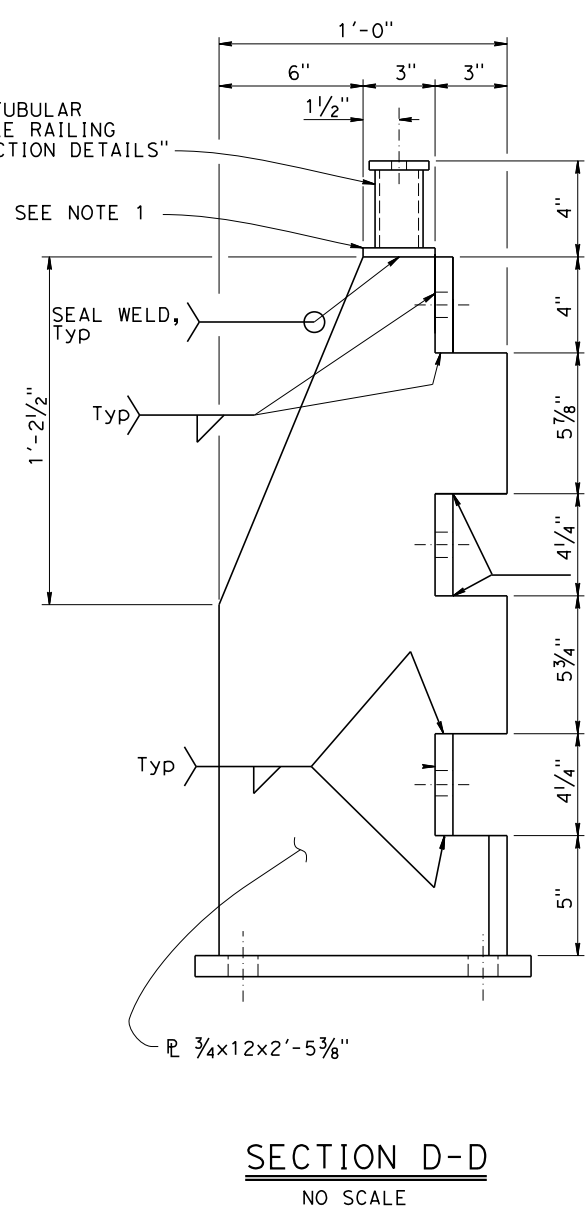
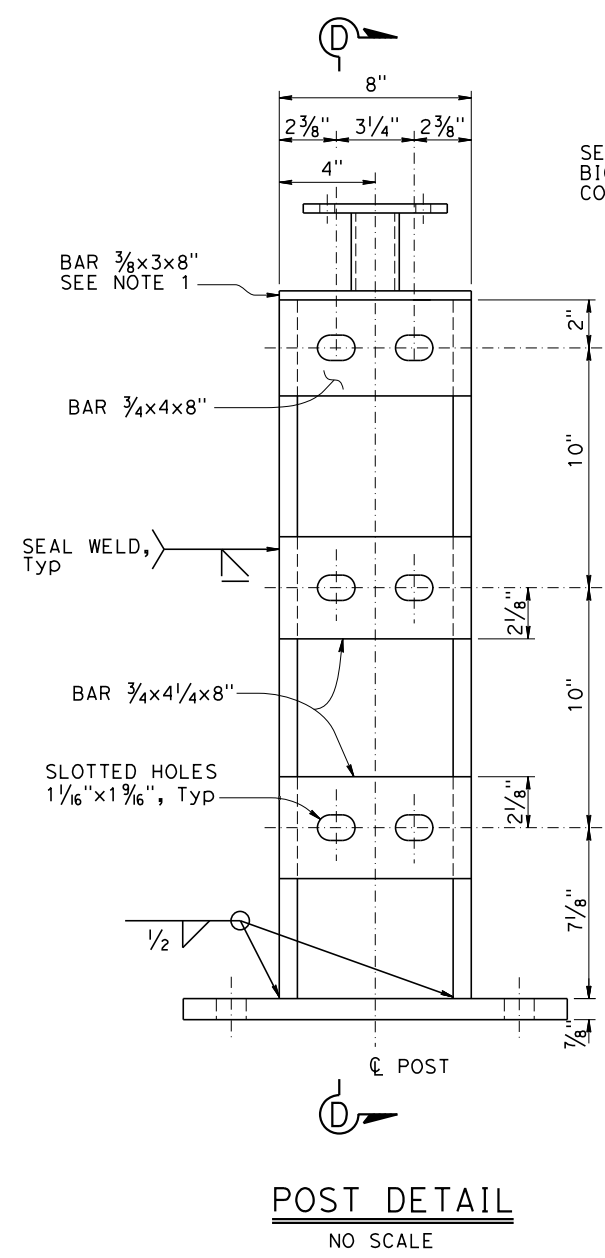
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
1	Hum	Local		69	74

REGISTERED STRUCTURAL ENGINEER
 Robert Morrison, Jr.
 No. S3577
 Exp. 3-31-25
 STATE OF CALIFORNIA

12/8/2023
 PLANS APPROVAL DATE

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

THE REGISTERED CIVIL ENGINEER FOR THE PROJECT IS RESPONSIBLE FOR THE SELECTION AND PROPER APPLICATION OF THE COMPONENT DESIGN AND ANY MODIFICATIONS SHOWN.



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.

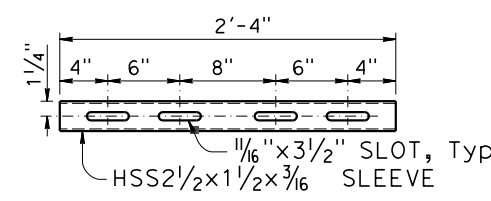
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
1	Hum	Local		70	74

REGISTERED STRUCTURAL ENGINEER
 Robert Morrison, Jr.
 No. S3577
 Exp. 3-31-25
 STRUCTURAL
 STATE OF CALIFORNIA

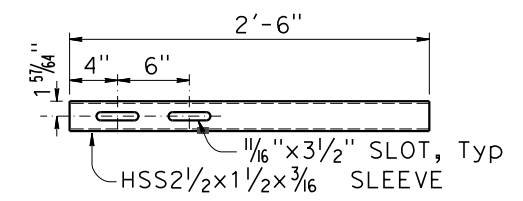
12/8/2023
 PLANS APPROVAL DATE

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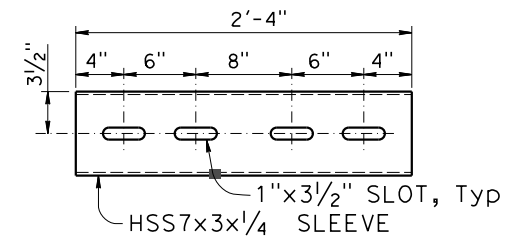
THE REGISTERED CIVIL ENGINEER FOR THE PROJECT IS RESPONSIBLE FOR THE SELECTION AND PROPER APPLICATION OF THE COMPONENT DESIGN AND ANY MODIFICATIONS SHOWN.



HSS3x2x¹/₈ RAIL

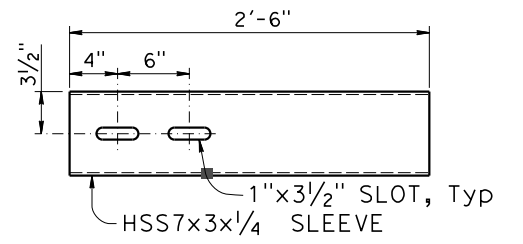


HSS3x2x¹/₈ RAIL



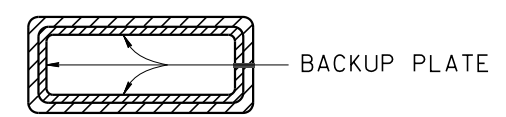
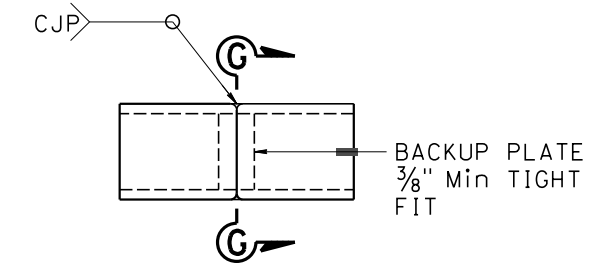
HSS8x4x⁵/₁₆ RAIL

**STANDARD SLEEVES
DETAILS
NO SCALE**



HSS8x4x⁵/₁₆ RAIL

**EXPANSION SLEEVES
DETAILS
NO SCALE**



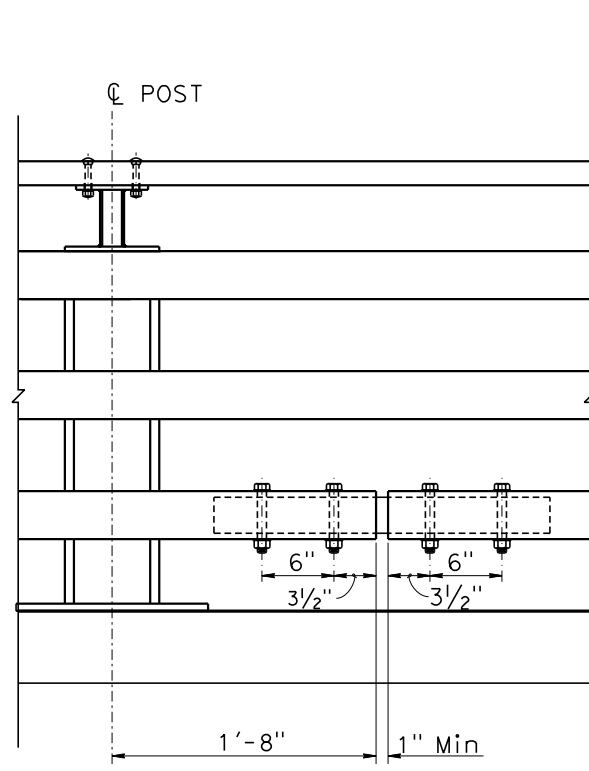
SECTION G-G

**ALTERNATE TUBE
WELDED STANDARD SPLICE**

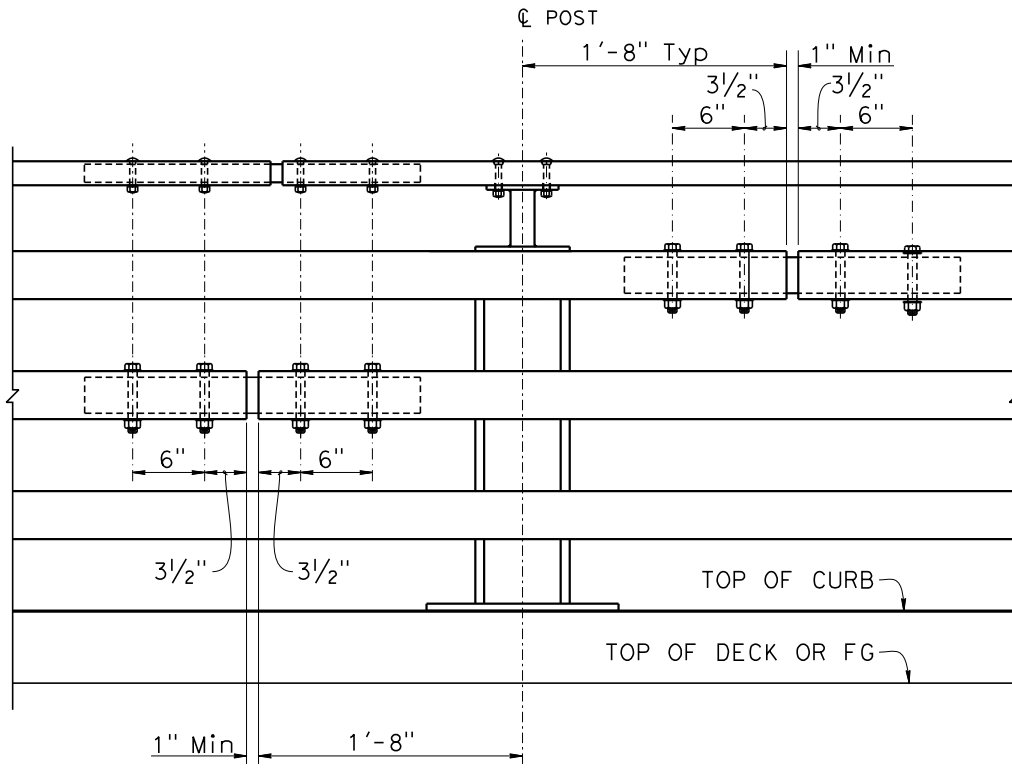
NO SCALE

NOTES:

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

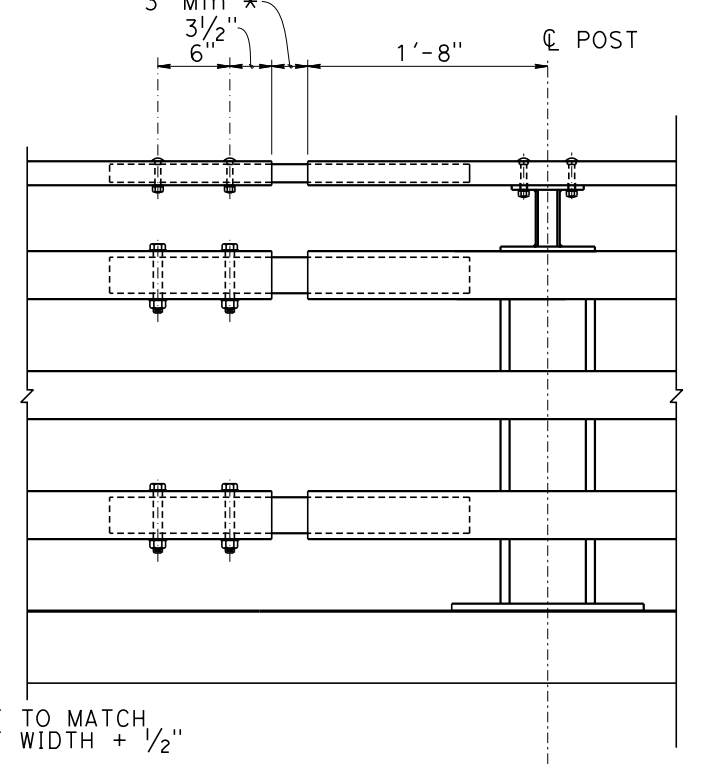
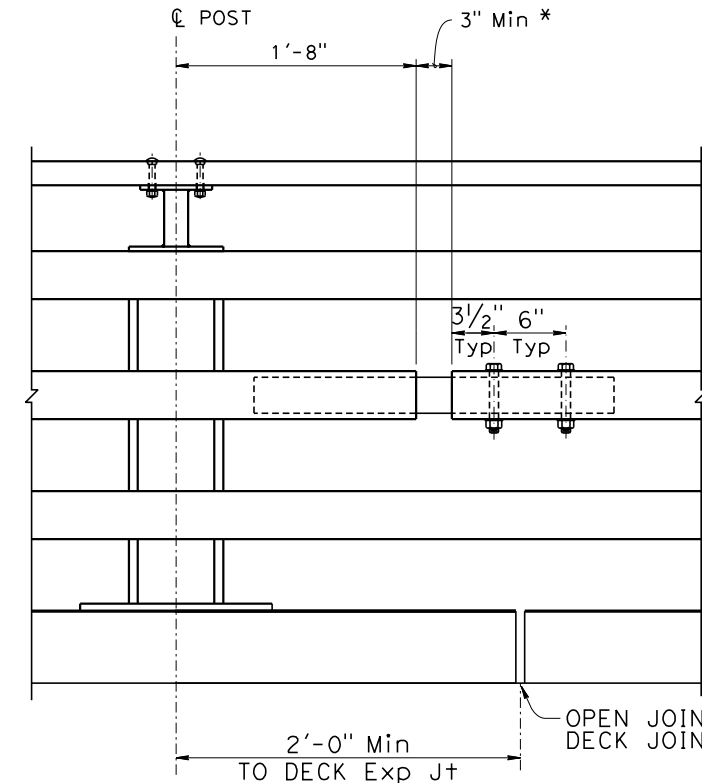


**STANDARD SPLICE
NO SCALE**



**EXPANSION SPLICE
NO SCALE**

* Match deck or wall joint



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	

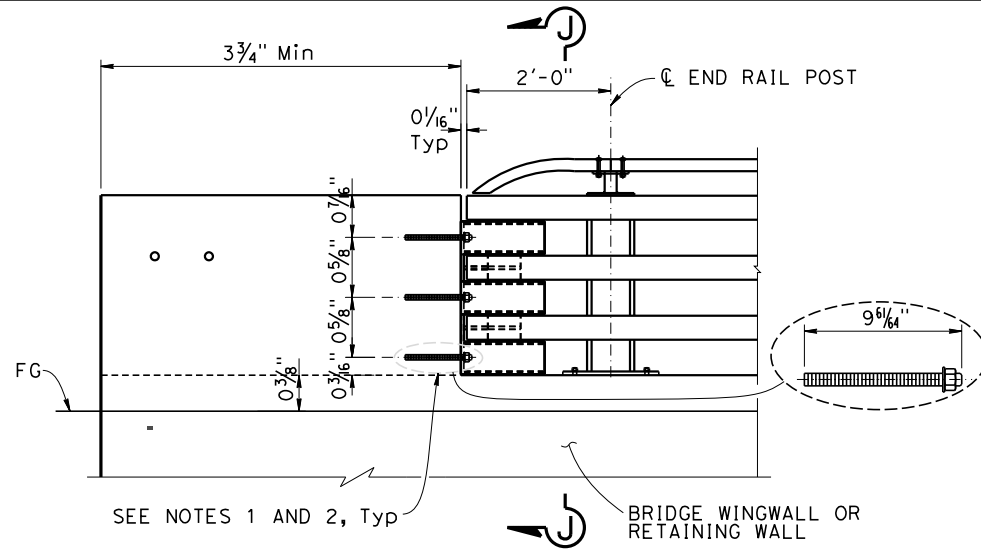
STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES	
DEPARTMENT OF TRANSPORTATION		BRIDGE No. 04C-0263	
		POST MILE	

MATTOLE RIVER BRIDGE ON MATTOLE ROAD (REPLACE)			
CALIFORNIA ST-75 BRIDGE RAIL			
DETAILS No. 4			

BRIDGE No.	POST MILE	CONTRACT No.:	REVISION DATES	SHEET	OF
04C-0263			12/18/19 1/5/22 6/20/22	28	32

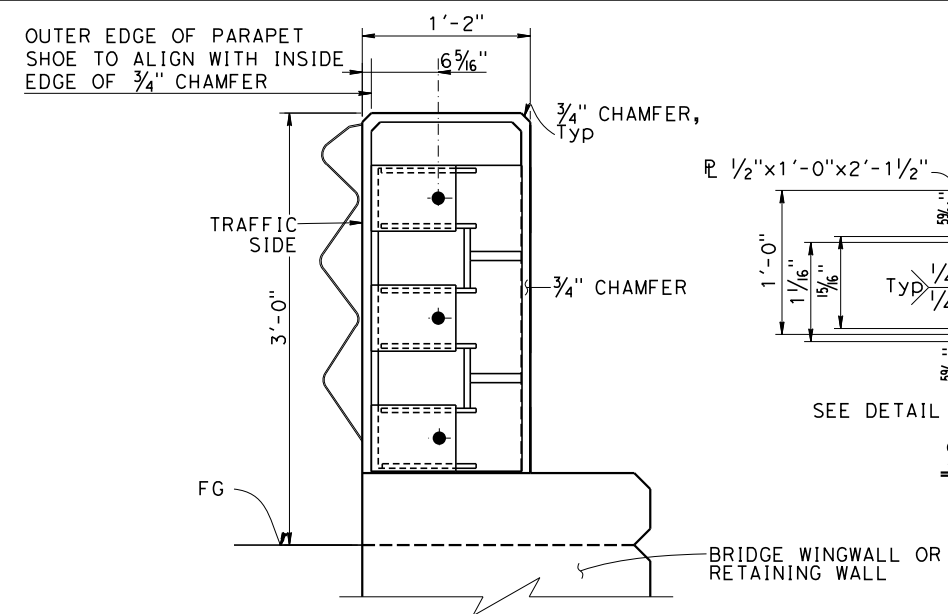
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
1	Hum	Local		71	74

REGISTERED STRUCTURAL ENGINEER	
12/8/2023	
PLANS APPROVAL DATE	
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THE REGISTERED CIVIL ENGINEER FOR THE PROJECT IS RESPONSIBLE FOR THE SELECTION AND PROPER APPLICATION OF THE COMPONENT DESIGN AND ANY MODIFICATIONS SHOWN.	



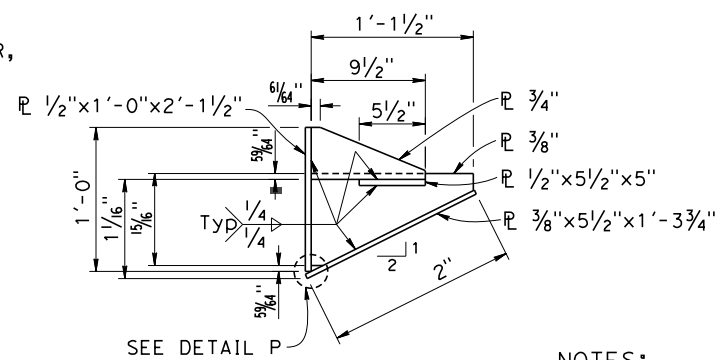
PARAPET SHOE AT DEPARTURE END BLOCK

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.

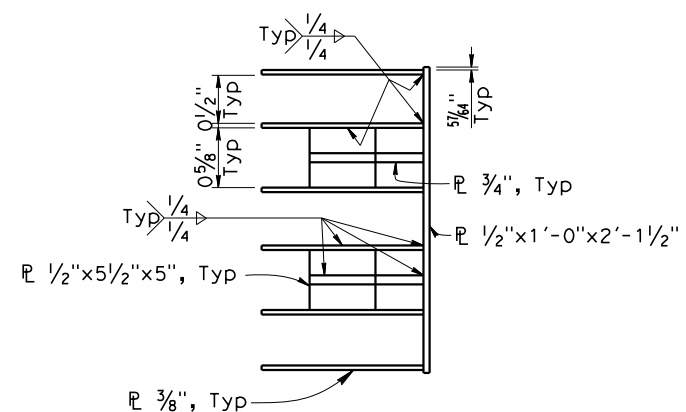


SECTION K-K

1/2" = 1'-0"

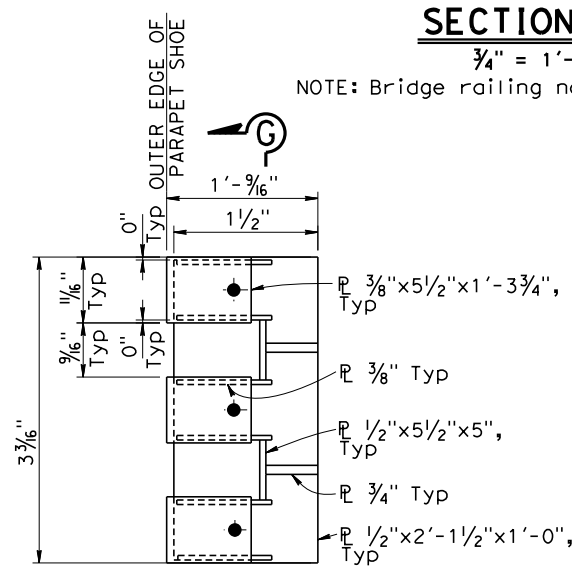
NOTES:

- 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.



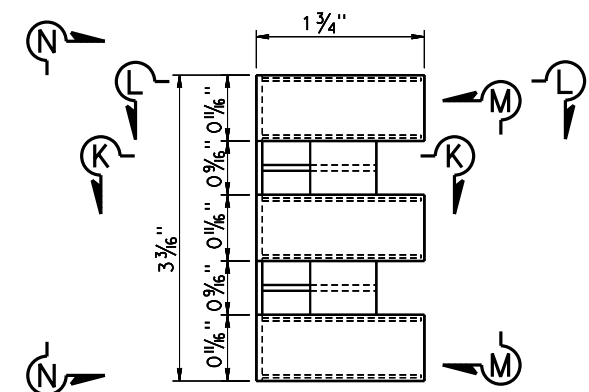
SECTION O-O

1/2" = 1'-0"



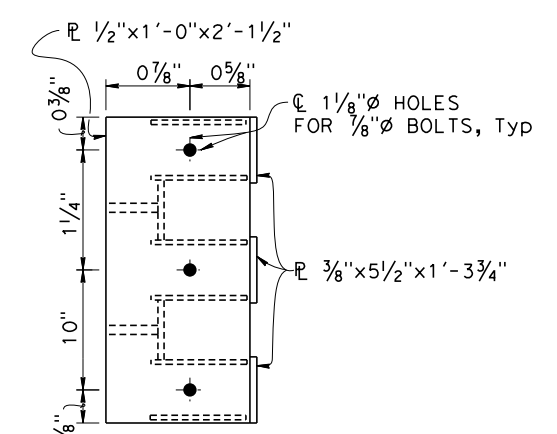
VIEW M-M

1/2" = 1'-0"



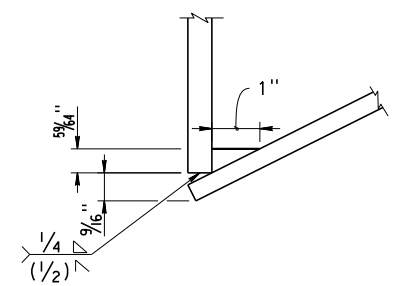
PARAPET SHOE ELEVATION

1/2" = 1'-0"



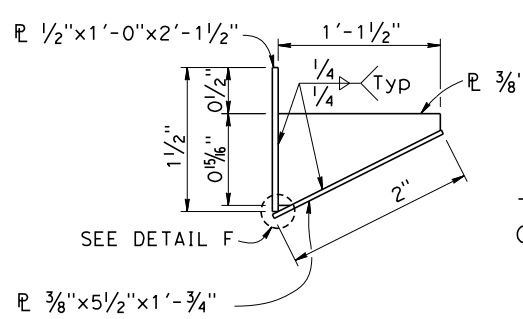
VIEW N-N

1/2" = 1'-0"



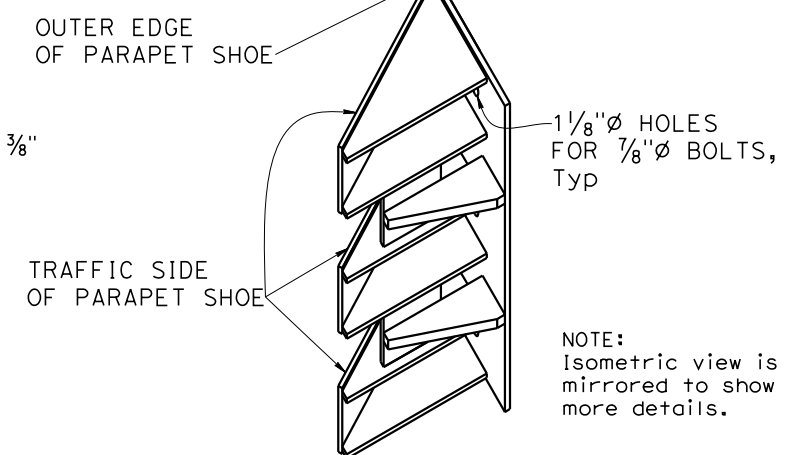
DETAIL F

6" = 1'-0"



SECTION L-L

1/2" = 1'-0"



ISOMETRIC VIEW

1/2" = 1'-0"

BENCH MARK:
 CP-1 Elev 344.67
 42.8' Left of Station 18+20.1 "M" Line
 Vert: NAVD88
 Horiz: NAD83

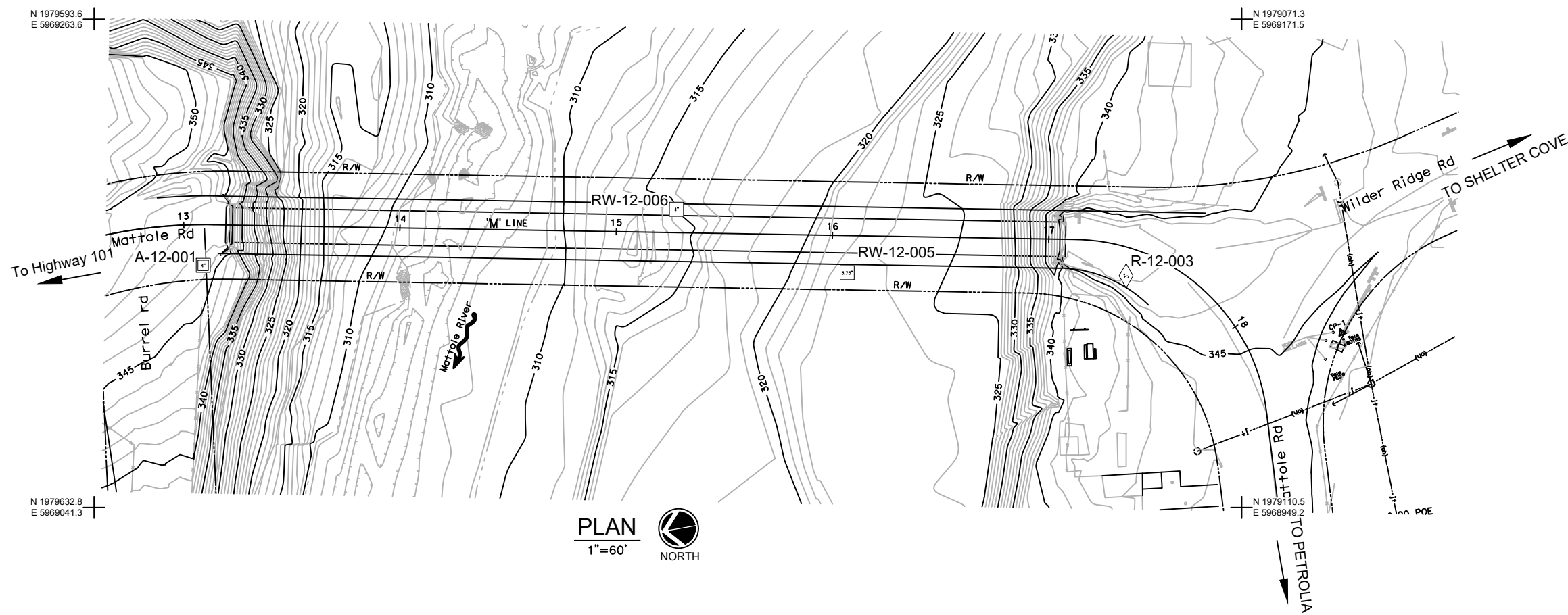
BOREHOLE LOCATION TABLE		
HOLE ID	ALIGNMENT NAME	STATION AND OFFSET
A-12-001	"M" LINE	13+08, 18' Rt
RW-12-006	"M" LINE	15+27, 11' Lt
RW-12-005	"M" LINE	16+12, 17' Rt
R-12-003	"M" LINE	17+41, 14' Rt

DIST	COUNTY	ROUTE	TOTAL PROJECT	SHEET NO	TOTAL SHEETS
1	HUM	LOCAL		72	74

REGISTERED CIVIL ENGINEER	DATE
03/06/2023	02/21/23
PLANS	APPROVAL DATE

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Crawford & Associates, Inc. 4701 Freepoint Boulevard Sacramento, CA 95822 (916) 455-4225	18-472.1 Project Number
--	----------------------------



PLAN
 1"=60'
 NORTH

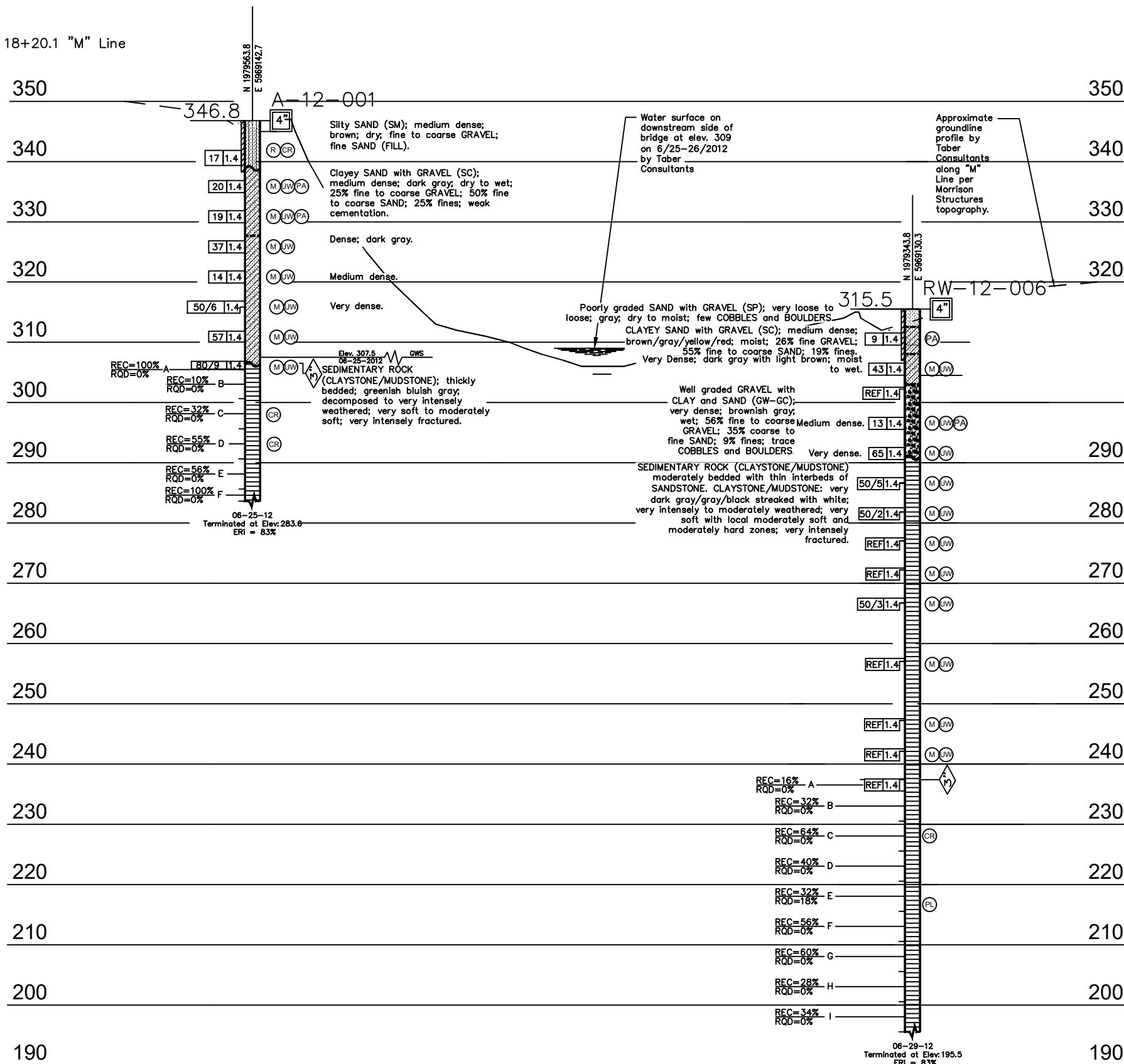
- NOTES:**
- Field classification of soils was in accordance with the Caltrans Soil & Rock Logging, Classification, and Presentation Manual (2010). See Log of Test Borings No. 2, "Soil Legend".
 - Soil and rock legends are provided in 2022 Caltrans Standard Plans S10F, A10G, and A10H.
 - Standard Penetration tests were performed in accordance with ASTM D 1586-99 using a hammer operated with an automated drop system. Drill rods were 1 5/8-inch diameter "A"-rods; sampler was driven with brass liners.
 - "2.4 inch sampler": ID=2.4 inch, OD=2.9 inch. "2.0 inch sampler": ID=2.0 inch, OD=2.5 inch. Both driven in same manner as SPT ("1.4 inch") sampler.
 - If laboratory tests are not shown as being performed, the soil descriptions presented on the LOTB are based solely on the visual practices described in this Manual.
 - The length of each sampled interval is shown graphically on the boring log. Whole number blow counts ("N") represent the "standard penetration resistance" interval in accordance with the Caltrans Soil & Rock Logging, Classification, and Presentation Manual (June 2010). Where less than 0.5 feet of penetration is achieved, then N is reported as "REF."
 - Consistency of soils shown in () where estimated.
 - Groundwater surface (GWS) elevations in the borings indicated on the Log of Test Boring Sheets reflect the fluid level in the borings on the specified date.
 - Groundwater elevations are subject to seasonal fluctuations and may occur at higher or lower elevations depending on the conditions at any particular time.
 - This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, and Presentation Manual 2010.

DESIGN BY: E. Tiedemann CHECKED: B. Crawford	Crawford & Associates, Inc. Geotechnical Engineering, Design and Construction Services www.crawford-inc.com	BRIDGE NO.	MATTOLE RIVER BRIDGE ON MATTOLE ROAD (REPLACE)
		POST MILE	LOG OF TEST BORINGS 1 OF 3
DETAILS BY: K. Kajiwara / B. Updegraff / M. Ayala CHECKED: E. Tiedemann	UNIT: XXXX PROJECT NUMBER & PHASE: XXXXXXXXXX1	COUNTY/ROUTE: HUM/LOCAL CONTRACT No.: XX-XXXXX4	REVISION DATES
GEOLOGICAL SERVICES FIELD INVESTIGATION BY: G. Wade		DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET 30 OF 32

OGS CIVIL LOG OF TEST BORING SHEET (ENGLISH) (REVISION 5/28/2021)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

BENCH MARK:
 CP-1 Elev 344.67
 42.8' Left of Station 18+20.1 "M" Line
 Vert: NAVD88
 Horiz: NAD83



PROFILE
 HOR. NOT TO SCALE
 VER. 1"=10'

DIST	COUNTY	ROUTE	TOTAL PROJECT	SHEET NO	TOTAL SHEETS
1	HUM	LOCAL		73	74

REGISTERED CIVIL ENGINEER
 DATE: 02/21/23
 03/06/2023
 PLANS APPROVAL DATE

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 4701 Freepoint Boulevard
 Sacramento, CA 95822 (916) 455-4225

18-472.1
 Project Number



- NOTES:
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DESIGN BY: E. Tiedemann	CHECKED: B. Crawford	 Crawford & Associates, Inc. Geotechnical Engineering, Design and Construction Services www.crawford-inc.com	BRIDGE NO. 04C-XXXX	MATTOLE RIVER BRIDGE ON MATTOLE ROAD (REPLACE) LOG OF TEST BORINGS 2 OF 3
DETAILS BY: K. Kajiwara / B. Updegraff / M. Ayala	CHECKED: E. Tiedemann		POST MILE: X.X	
GEOTECHNICAL SERVICES FIELD INVESTIGATION BY: G. Wade		UNIT: XXXX	COUNTY/ROUTE: HUM/LOCAL	DISREGARD PRINTS BEARING EARLIER REVISION DATES
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		PROJECT NUMBER & PHASE: XXXXXXXXXX1	CONTRACT No.: XX-XXXXX4	REVISION DATES
				SHEET 31 OF 32

BENCH MARK:
 CP-1 Elev 344.67
 42.8' Left of Station 18+20.1 "M" Line
 Vert: NAVD88
 Horiz: NAD83

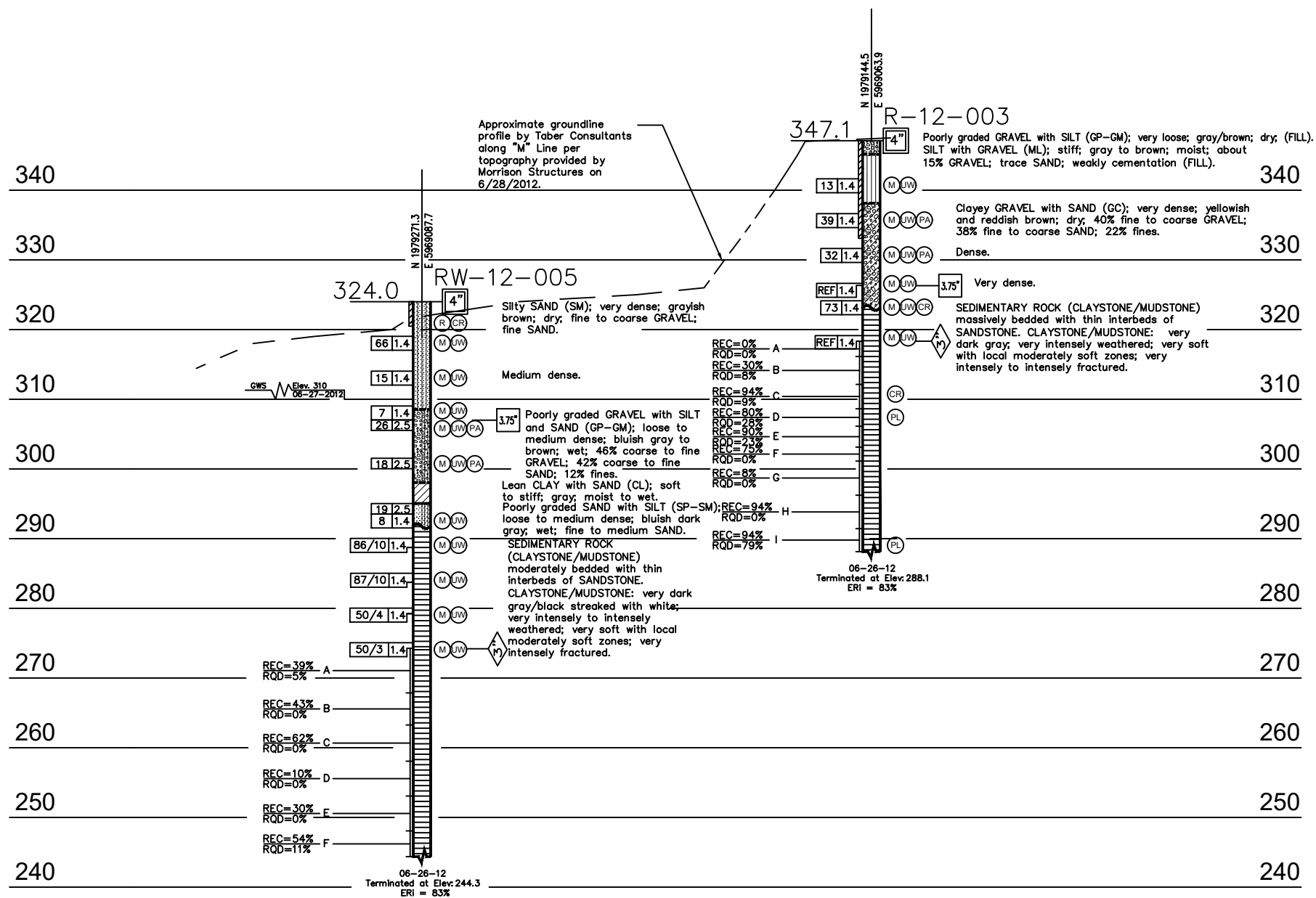
DIST	COUNTY	ROUTE	TOTAL PROJECT	SHEET NO	TOTAL SHEETS
1	HUM	LOCAL		74	74

REGISTERED CIVIL ENGINEER
 DATE 02/21/23
 03/06/2023
 PLANS APPROVAL DATE

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 4701 Freeport Boulevard
 Sacramento, CA 95822 (916) 455-4225

18-472.1
 Project Number



PROFILE
 HOR. NOT TO SCALE
 VER. 1"=10'

- NOTES:
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DESIGN BY E. Tiedemann		CHECKED B. Crawford	 Crawford & Associates, Inc. Geotechnical Engineering, Design and Construction Services www.crawford-inc.com	BRIDGE NO.	MATTOLE RIVER BRIDGE ON MATTOLE ROAD (REPLACE)
DETAILS BY K. Kajiwara / B. Updegraff / M. Ayala		CHECKED E. Tiedemann		04C-XXXX	
GEOLOGICAL SERVICES FIELD INVESTIGATION BY: G. Wade				POST MILE	LOG OF TEST BORINGS 3 OF 3
				XX	
UNIT: XXXX		COUNTY/ROUTE: HUM/LOCAL	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 32 OF 32
PROJECT NUMBER & PHASE: XXXXXXXXXX1		CONTRACT No.: XX-XXXXX4			