



FEMA



Cal OES

GOVERNOR'S OFFICE OF EMERGENCY SERVICES

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS

PROJECT PLANS FOR CONSTRUCTION OF

STORM DAMAGE REPAIR TO

BAIR RD. [6L300] PM 0.50, 1.30, 3.00, 4.10

STOVER RD. [6M100] PM 5.47

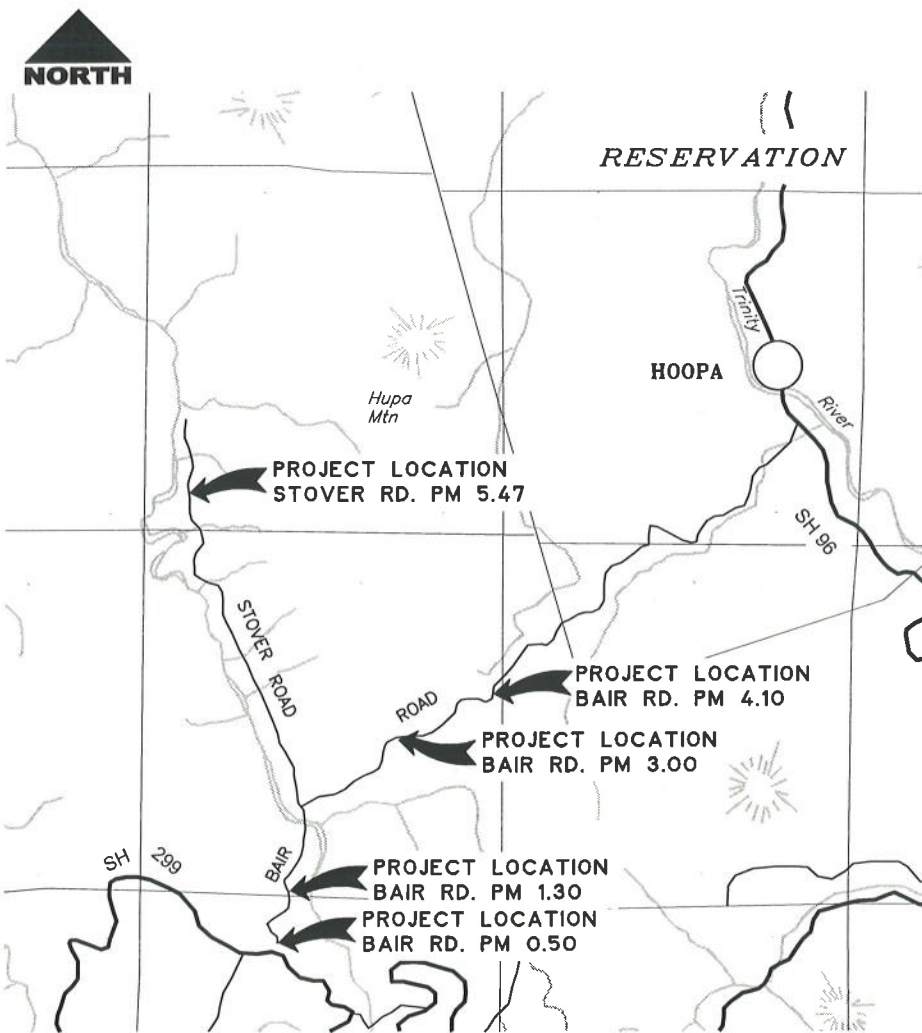
PROJECT NO. FEMA-4308-DR-CA PW-1305

CONTRACT NO. 217375, 217376, 217542, 217529, 217530

ROAD NAMES: BAIR RD AND STOVER RD	DESIGN SECTION: ENGINEERING	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 1 OF 22
ROAD NO: 6L300 AND 6M100	MILE POST: VARIOUS	STORM DAMAGE REPAIR TO BAIR ROAD AND STOVER ROAD	
PROJECT NO: FEMA-4308-DR-CA PW-1305	CAL OES ID: 023-00000	COVER SHEET, SHEET INDEX AND MAPS	
CONTRACT NO: 217375, 217376, 217542, 217529, 217530			
DRAWING FILE NAME: 217XXX BAIR & STOVER Title Page			
PLOT DATE: 02/13/2020	REVISION DATE:		



LOCATION MAP SCALE: 1"=10± MILE



VICINITY MAP NTS



INDEX OF SHEETS

- 1 COVER SHEET, SHEET INDEX, AND MAPS
- 2 CONSTRUCTION AREA SIGNS, QUANTITIES, AND DETAILS
- 3 STOCKPILE LOCATION AND DETAILS
- 4-8 BAIR RD. 0.50
- 9-12 BAIR RD. 1.30
- 13-15 BAIR RD. 3.00
- 16-18 BAIR RD. 4.10
- 19-22 STOVER RD. 5.47

NOTES

THE CONTRACTOR SHALL HAVE A CLASS "A" LICENSE FOR THIS PROJECT.
 REFERENCE TO CALTRANS STANDARD PLANS DATED JULY 2018.
 (SEE APPLICABLE STAN PLAN LIST IN SPECIAL PROVISIONS)

DESIGN DESIGNATION

ADT (AUGUST'09)=113
 V=35MPH

RECOMMENDED

Jeffrey A. Ball 2-17-2020
 JEFFREY A. BALL DATE
 RCE 70631, EXP. 6/30/2021



APPROVED

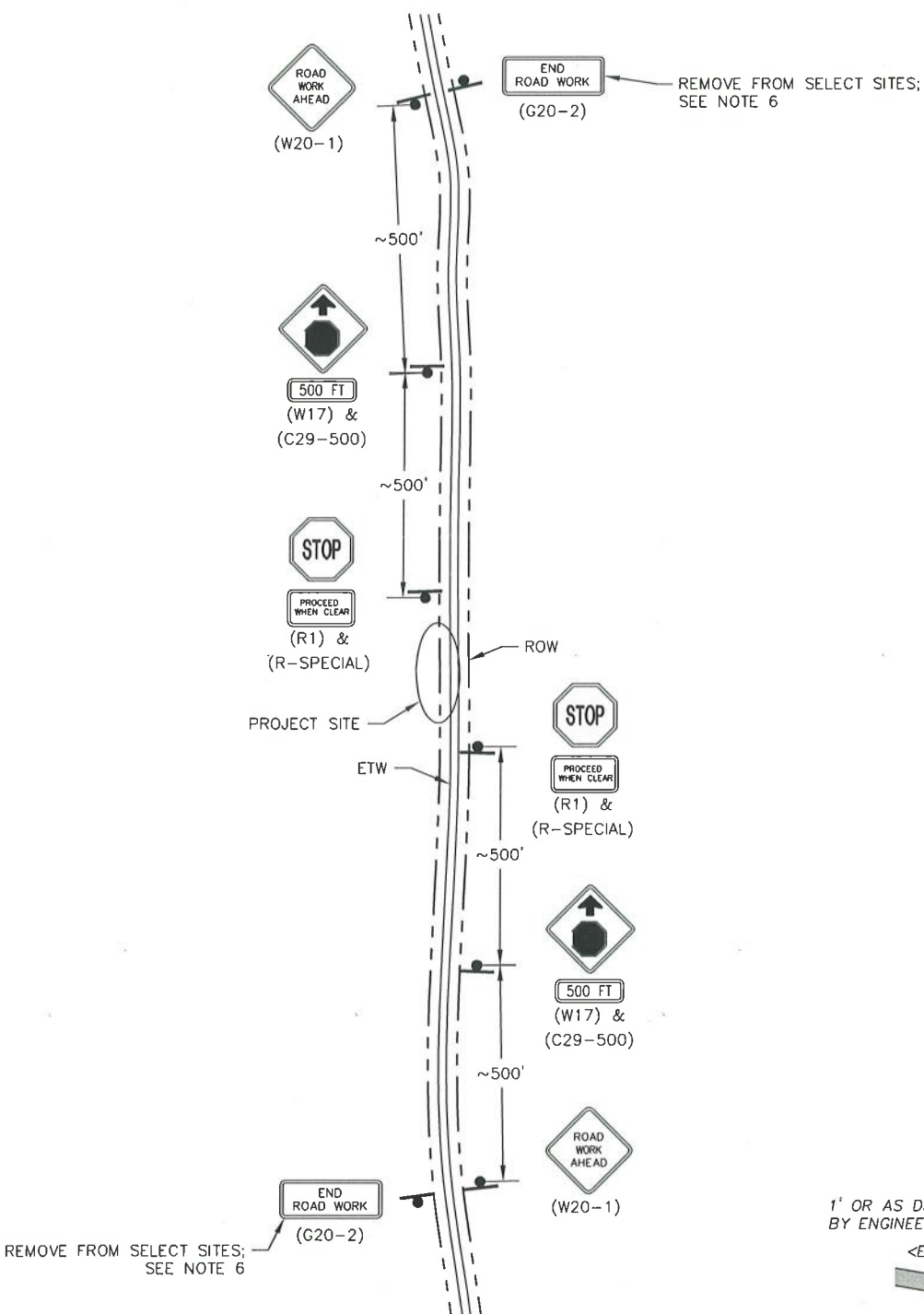
Tony R. Seghetti 2/14/20
 TONY R. SEGHETTI DATE
 RCE 63714, EXP. 9/30/2020



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

SIGN CODE	QTY	SIGN MESSAGE	PANEL SIZE	NUMBER & POST SIZE
W20-1	2	ROAD WORK AHEAD	36" x 36"	(1) 4" x 4"
W17 C29	2	STOP AHEAD 500 FT	36" x 36" 29" x 9"	(1) 4" x 4"
R1 R-SPECIAL	2	STOP PROCEED WHEN CLEAR	36" x 36" 36" x 18"	(1) 4" x 4"
G20-2	2	END ROAD WORK	36" x 18"	(1) 4" x 4"

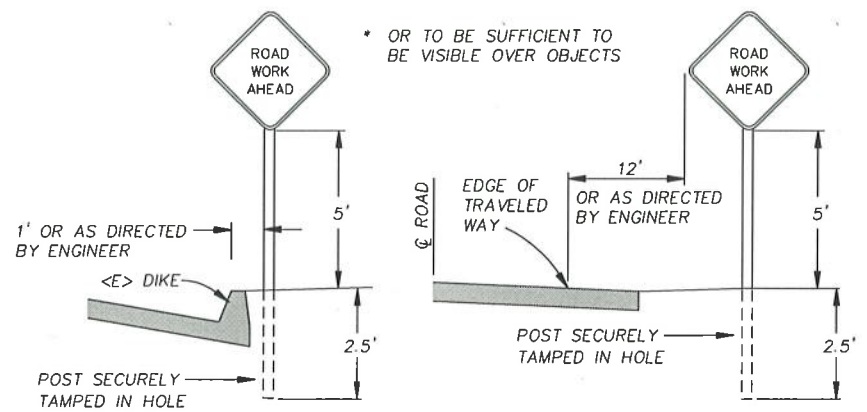


TYPICAL TRAFFIC CONTROL PLAN

NTS

REMOVE FROM SELECT SITES;
SEE NOTE 6

REMOVE FROM SELECT SITES;
SEE NOTE 6



DIKE CONDITION

UNPAVED SHOULDER

RURAL CONSTRUCTION AREA SIGN

- NOT TO SCALE -



ROAD NAMES: BAIR RD AND STOVER RD	DESIGN SECTION: ENGINEERING	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 2 OF 22
ROAD NO: 6L300 AND 6M100	MILE POST: VARIOUS	STORM DAMAGE REPAIR TO BAIR ROAD AND STOVER ROAD	
PROJECT NO: FEMA-4308-DR-CA PW-1305	CAL OES ID: 023-00000	CONSTRUCTION AREA SIGNS, DETAILS AND QUANTITIES	
CONTRACT NO: 217375, 217376, 217542, 217529, 217530	DRAWN BY: RMD		
DRAWING FILE NAME: 217375X BAIR & STOVER CD502	REVIEWED BY: JAB		
PLOT DATE: 02/13/2020	REVISION DATE:		
	APPROVED BY: TRS		

QUANTITIES

ITEM NO.	ITEM CODE	ITEM DESCRIPTION	UNIT	217375 Bair PM 0.50	217376 Bair PM 1.30	217542 Bair PM 3.00	217529 Bair PM 4.10	217530 Stover PM 5.47	TOTAL QUANTITY
1	120090	Construction Area Signs	EA	7	7	7	7	8	36
2	120100	Traffic Control System	LS	0.2	0.2	0.2	0.2	0.2	1
3	129000	Temporary Railing (Type K)	LF	180	140	120	140	140	720
4	130100	Job Site Management	LS	0.2	0.2	0.2	0.2	0.2	1
5	130200	Perpare Water Pollution Contol Program	LS	0.2	0.2	0.2	0.2	0.2	1
6	130680	Temporary Silt Fence	LF	165	130	72	134	120	621
7	170103	Clearing and Grubbing (LS)	LS	0.2	0.2	0.2	0.2	0.2	1
8	190101	Roadway Excavation	CY	56	61	10	39	52	218
9	192001	F Structure Excavation	CY	490	348	219	178	370	1,605
10	193001	F Structure Backfill	CY	192	112	0	0	148	452
11	198050	Embankment	CY	182	133	116	76	140	647
12	198250	Geosynthetic Reinforcement	SY	0	0	304	208	0	512
13	210212	Dry Seed (SQFT)	SF	975	956	216	708	960	3,815
14	210350	Fiber Rolls	LF	167	148	72	115	100	602
15	210420	Straw	SF	975	956	216	708	960	3,815
16	260203	Class 2 Aggregate Base	CY	53	24	0	0	38	115
17	260400	Aggregate Base (1.5" Minus Crushed Rock)	CY	0	0	14	40	0	54
18	390132	Hot Mix Asphalt (Type A)	TON	53	25	0	0	41	119
19	394073	Place Hot Mix Asphalt Dike (Type A)	LF	0	0	0	0	100	100
20	477020	F Mechanically Stabilized Embankment	SF	816	432	0	0	496	1,744
21	680902	6" Perforated Plastic Pipe Underdrain	LF	80	72	0	100	100	352
22	680903	6" Non-perforated Plastic Pipe Underdrain	LF	25	16	0	34	70	145
23	682049	F Class 3 Permeable Material (Blanket)	CY	147	66	0	38	110	361
24	721014	F Rock Slope Protection (1/4 Ton, Method B) (TON)	TON	0	0	144	102	0	246
25	721200	Relocate Existing Rock Slope Protection	LS	0	1	0	0	0	1
26	723100	Rock Slope Protection (20 lb, Class I Method B) (TON)	TON	1	1	0	1	1	4
27	729011	Rock Slope Protection Fabric (Class 8)	SY	8	8	52	65	5	138
28	961000	Filter Fabric (Class B)	SY	117	100	0	220	253	690
29	999990	Mobilization	LS	0.2	0.2	0.2	0.2	0.2	1

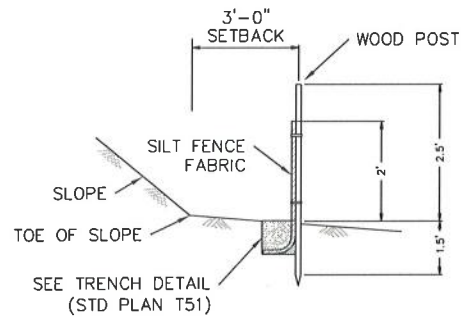
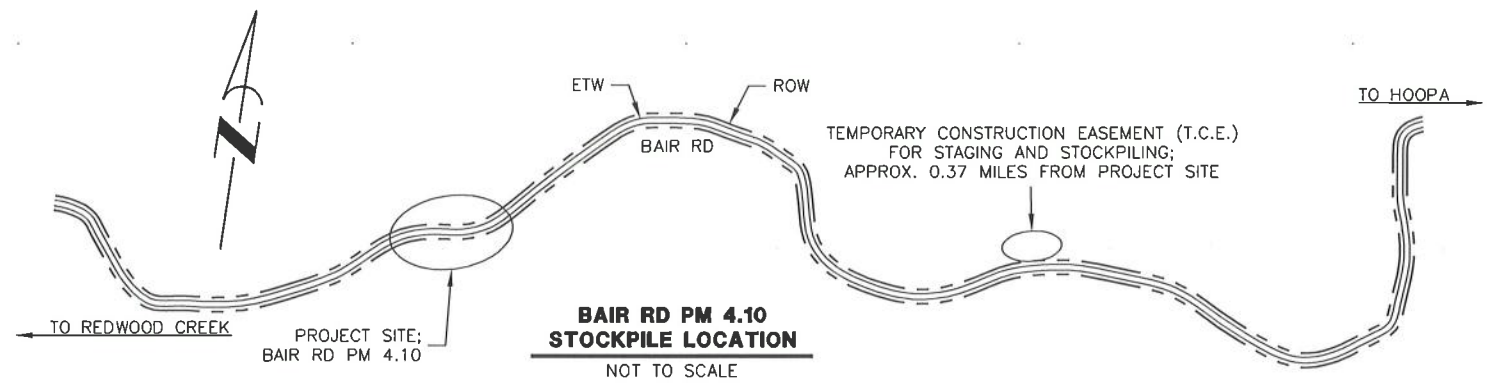
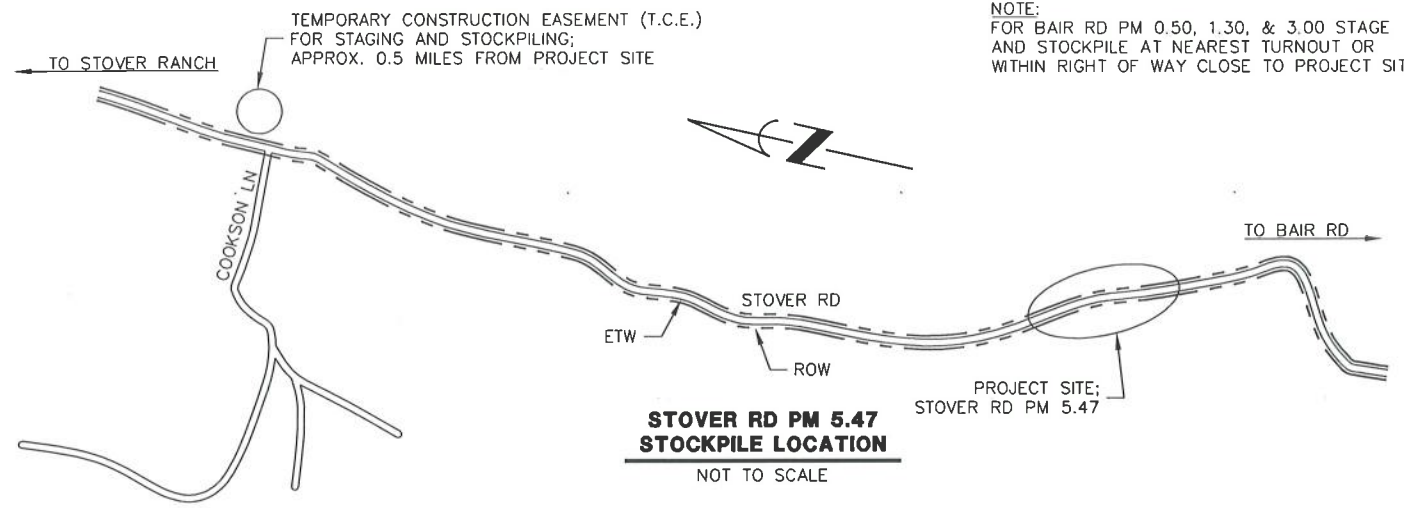
NOTES

- 1) SIGNS SHALL BE PLACED AS SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER.
- 2) FINAL PLACEMENT OF SIGNS SHALL BE APPROVED BY RESIDENT ENGINEER.
- 3) ADDITIONAL PORTABLE SIGNS SHALL BE USED AS REQUIRED FOR OTHER ROADSIDE WORK.
- 4) SEE STANDARD PLAN T13 FOR TRAFFIC CONTROL SYSTEM.
- 5) IN ADDITION TO CONSTRUCTION AREA SIGNS AND WHEN DIRECTED BY THE RESIDENT ENGINEER, THE CONTRACTOR SHALL UTILIZE FLAGMEN AS NECESSARY TO DIRECT TRAFFIC.
- 6) DISTANCE TO W20-1 AND G20-2 MAY BE EXTENDED TO ENCOMPASS SITES WITHIN ONE MILE OF EACH OTHER.

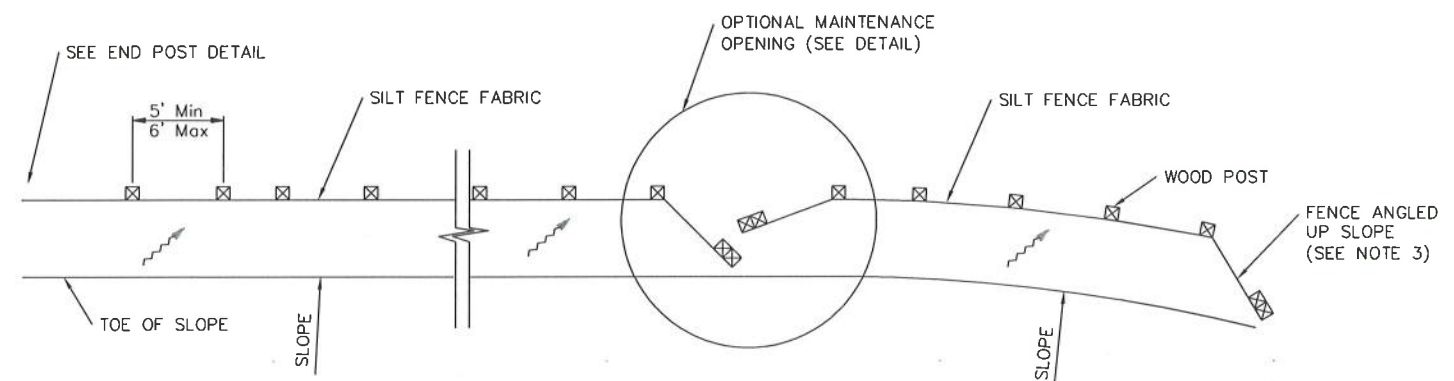


ROAD NAME: BAIR RD AND STOVER RD		DESIGN SECTION	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 3 OF 22
ROAD NO: 6L300 AND 6M100		ENGINEERING		
PROJECT NO: FEMA-4308-DR-CA PW-1305		CAL OES ID: 023-00000	STORM DAMAGE REPAIR TO BAIR ROAD AND STOVER ROAD	
CONTRACT NO: 217375, 217376, 217542, 217529, 217530		DESIGNED BY: RMD	STOCKPILE LOCATIONS AND DETAILS	
DRAWING FILE NAME: 217XXX BAIR & STOVER CDSD02		DRAWN BY: RMD		
PLOT DATE: 02/13/2020		REVIEWED BY: JAB		
REVISION DATE:		APPROVED BY: TRS		

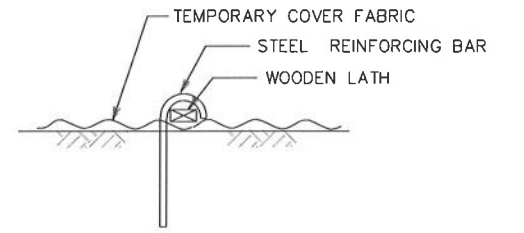
NOTE:
FOR BAIR RD PM 0.50, 1.30, & 3.00 STAGE
AND STOCKPILE AT NEAREST TURNOUT OR
WITHIN RIGHT OF WAY CLOSE TO PROJECT SITE.



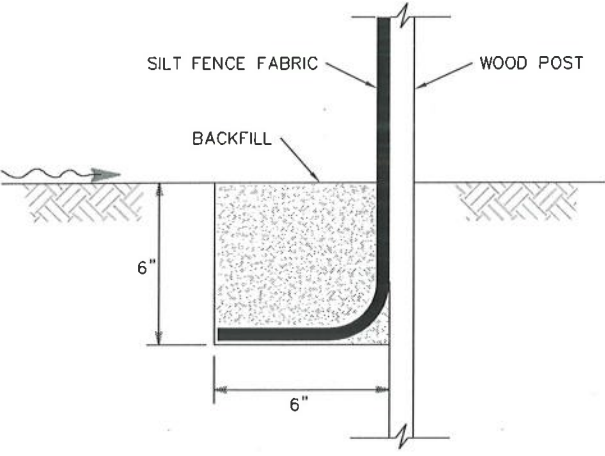
TEMPORARY SILT FENCE DETAIL
NOT TO SCALE



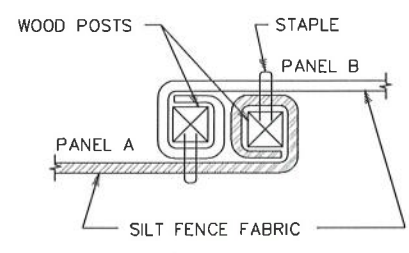
PLAN TEMPORARY SILT FENCE
NOT TO SCALE



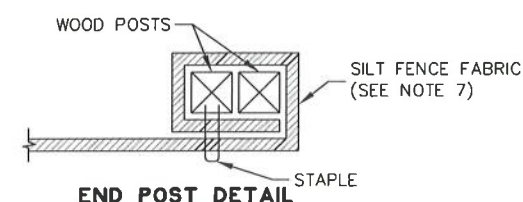
SECTION ANCHOR RESTRAINER
(STEEL BAR AND WOODEN LATH)
NOT TO SCALE



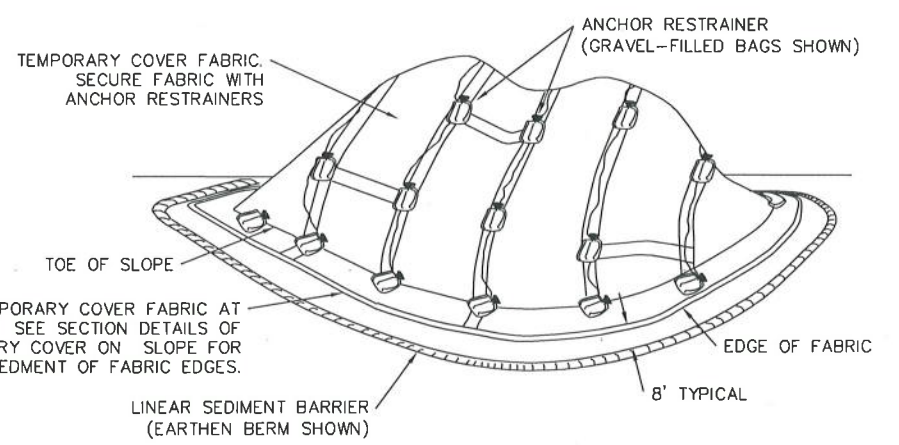
SECTION TRENCH DETAIL
NOT TO SCALE



PLAN POST AT JOINTS
NOT TO SCALE

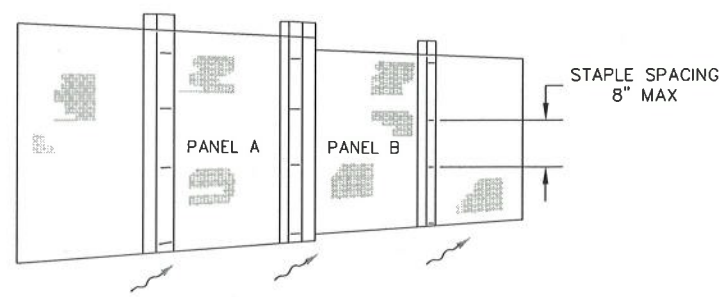


END POST DETAIL
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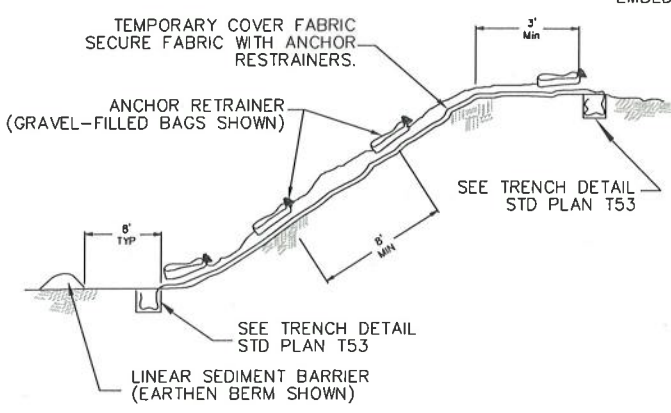


TEMPORARY STOCKPILE DETAIL
NOT TO SCALE

- SILT FENCE NOTES- STD PLAN T51**
- 1) INSTALL TEMPORARY SILT FENCE BY FIRST DIGGING TRENCH, DRIVING POSTS, PLACING AND SECURING FABRIC. THEN BACKFILL AND TAMP.
 - 2) REACH LENGTH NOT TO EXCEED 500 FEET.
 - 3) THE DOWN STREAM END OF THE TEMPORARY SILT FENCE SHALL HAVE THE LAST 8' ANGLED UP SLOPE.
 - 4) SETBACK DIMENSIONS MAY VARY TO FIT FIELD CONDITIONS.
 - 5) POSTS TO OVERLAP AND FENCE FABRIC TO FOLD AROUND EACH POST ONE FULL TURN. SECURE FABRIC WITH 4 STAPLES FOR EACH POST.
 - 6) POSTS SHALL BE DRIVEN TIGHTLY TOGETHER TO PREVENT POTENTIAL FLOW-THROUGH OF SEDIMENT AT THE JOINT. THE TOPS OF THE POSTS SHALL BE SECURED TO EACH OTHER WITH WIRE.
 - 7) FOR EACH END POST, FENCE FABRIC SHALL BE FOLDED AROUND TWO POSTS ONE FULL TURN AND SECURED WITH 4 STAPLES.
 - 8) MINIMUM OF 4 STAPLES SHALL BE INSTALLED PER POST. DIMENSIONS SHOWN ARE TYPICAL.
 - 9) MAINTENANCE OPENINGS SHALL BE CONSTRUCTED IN A MANNER TO ENSURE THAT SEDIMENT IS RETAINED BY THE TEMPORARY SILT FENCE.
 - 10) JOINT SECTIONS SHALL NOT BE PLACED AT SUMP LOCATIONS.



SILT FENCE PANELS AT JOINTS
NOT TO SCALE



TEMPORARY COVER ON SLOPE
NOT TO SCALE

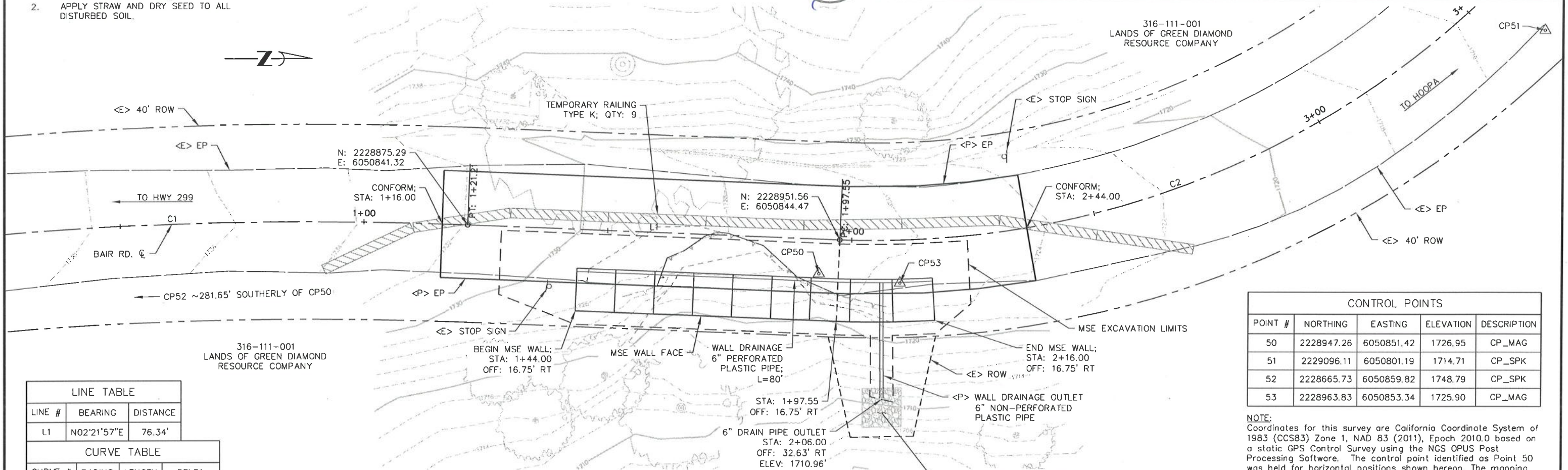
- STOCKPILE NOTES- STD PLAN T53**
- 1) SHALL HAVE STRAW WADDLES, HAY BALES AND OR SILT FENCE AROUND STOCKPILE (SILT FENCE DETAIL SHOWN).
 - 2) SHALL BE COVERED WITH PLASTIC WHEN NOT IN USE AND BE WEIGHTED DOWN WITH SANDBAGS OR EQUIVALENT (AS PER STANDARD PLAN T53).
 - 3) IF STOCKPILE AREA IS IN A TURNOUT, THE TURNOUT SHALL BE REESTABLISHED TO PRE-CONSTRUCTION CONDITIONS.
 - 4) IF TEMPORARY CULVERTS ARE INSTALLED, THE DITCH LINE SHALL BE RECONSTRUCTED AT THE END OF THE PROJECT.
 - 5) STOCKPILE LOCATIONS HAVE BEEN APPROVED BY PUBLIC WORKS AS DETAILED IN THE ENVIRONMENTAL REPORT. ALTERNATIVE SITES MAY BE APPROVED THROUGH PUBLIC WORKS IN WRITING.

NOTES

1. WALL DEPTH MAY VARY DEPENDING ON THE TYPE AND COMPETENCY OF MATERIALS ENCOUNTERED DURING STRUCTURE EXCAVATION.
2. APPLY STRAW AND DRY SEED TO ALL DISTURBED SOIL.



ROAD NAME: BAIR ROAD ROAD NO: C61300 PROJECT NO. FEMA-4308-DR CA PW 1305 CONTRACT NO.: 217375 DRAWING FILE NAME: BAIR RD 0.50 PLOT DATE: 02/13/2020	MILE POST: 0.50	DESIGN SECTION ENGINEERING DIVISION	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS STORM DAMAGE REPAIR TO BAIR ROAD PM 0.50	SHEET 4 OF 22
		DESIGNED BY: RMD DRAWN BY: RMD REVIEWED BY: JAB APPROVED BY: TRS		



LINE TABLE

LINE #	BEARING	DISTANCE
L1	N02°21'57"E	76.34'

CURVE TABLE

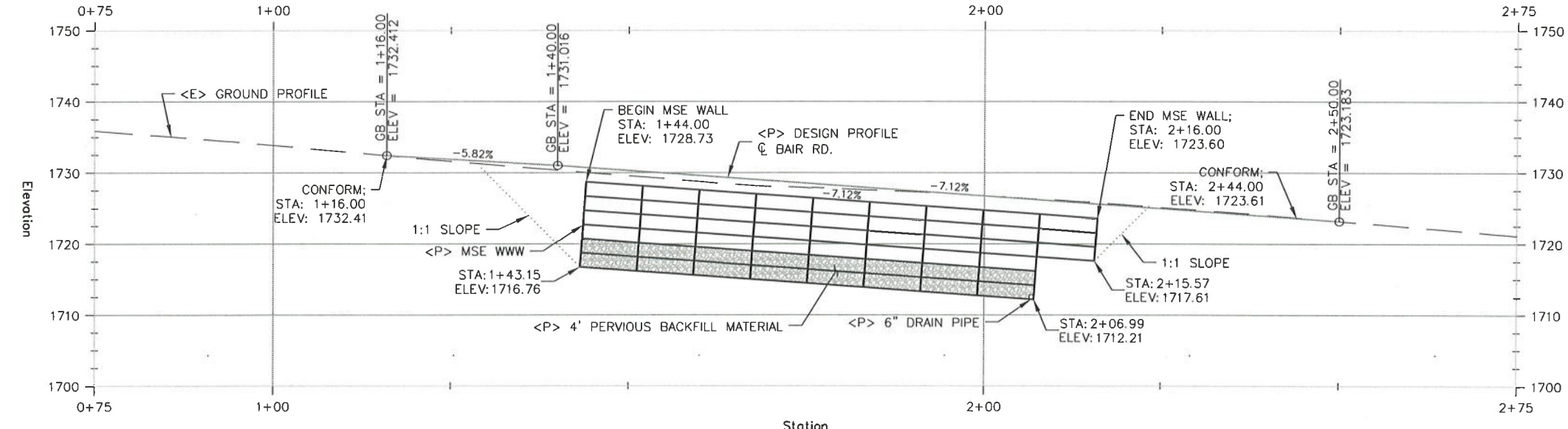
CURVE #	RADIUS	LENGTH	DELTA
C1	800.00'	121.21'	008°40'52"
C2	180.00'	140.46'	044°42'37"

CONTROL POINTS

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
50	2228947.26	6050851.42	1726.95	CP_MAG
51	2229096.11	6050801.19	1714.71	CP_SPK
52	2228665.73	6050859.82	1748.79	CP_SPK
53	2228963.83	6050853.34	1725.90	CP_MAG

NOTE:
 Coordinates for this survey are California Coordinate System of 1983 (CCS83) Zone 1, NAD 83 (2011), Epoch 2010.0 based on a static GPS Control Survey using the NGS OPUS Post Processing Software. The control point identified as Point 50 was held for horizontal positions shown hereon. The mapping angle is 1 degree 12 minutes 32 seconds; rotate bearings hereon counterclockwise by this angle to obtain "True" or Geodetic Bearings. Grid distances shown should be divided by the Combined Scale factor of 0.99981808 to obtain ground distances. Mapping angle and grid scale factor are taken at control point number 50, a magnetic nail in asphalt. Elevations are NAVD 88 datum based on OPUS solution utilizing the GEOID 12B model; an elevation of 1726.95' feet was measured at the aforementioned Control Point 50.

BAIR RD. CL ALIGNMENT PROFILE



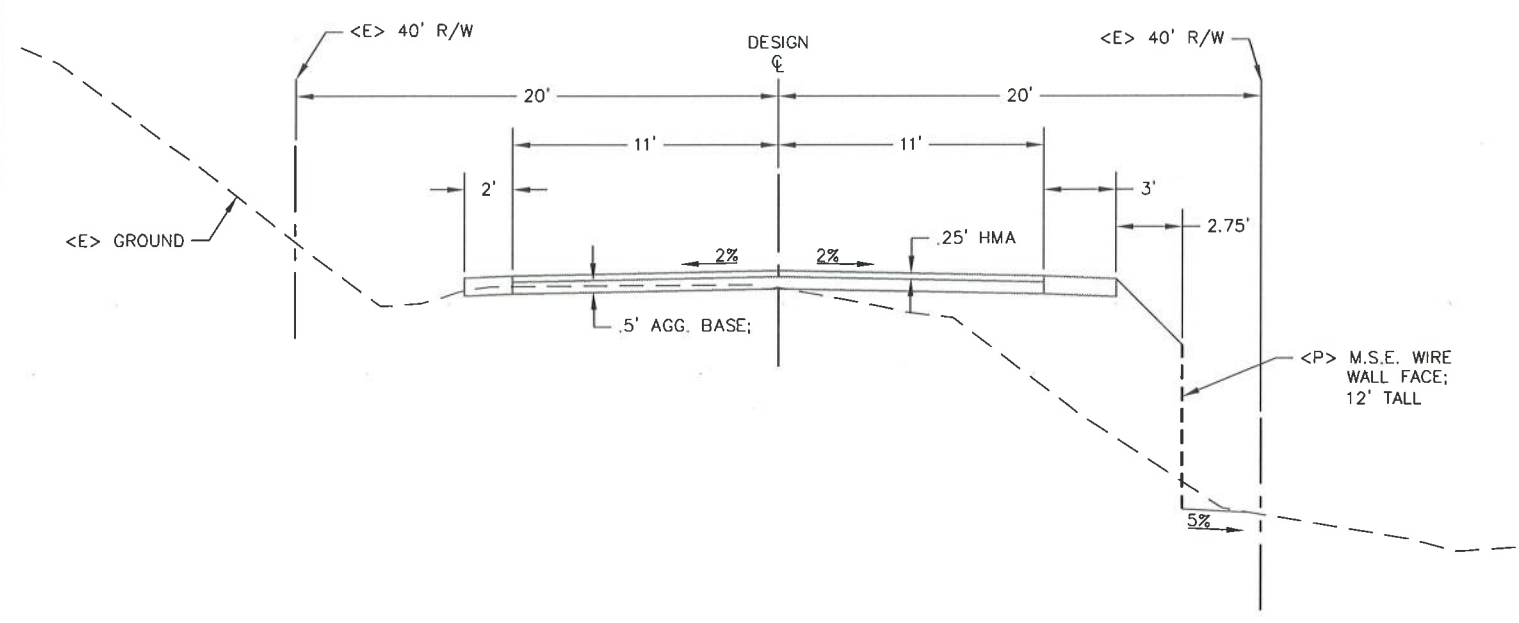
PROFILE VIEW

HORIZ.: 1"=10'
 VERT.: 1"=10'

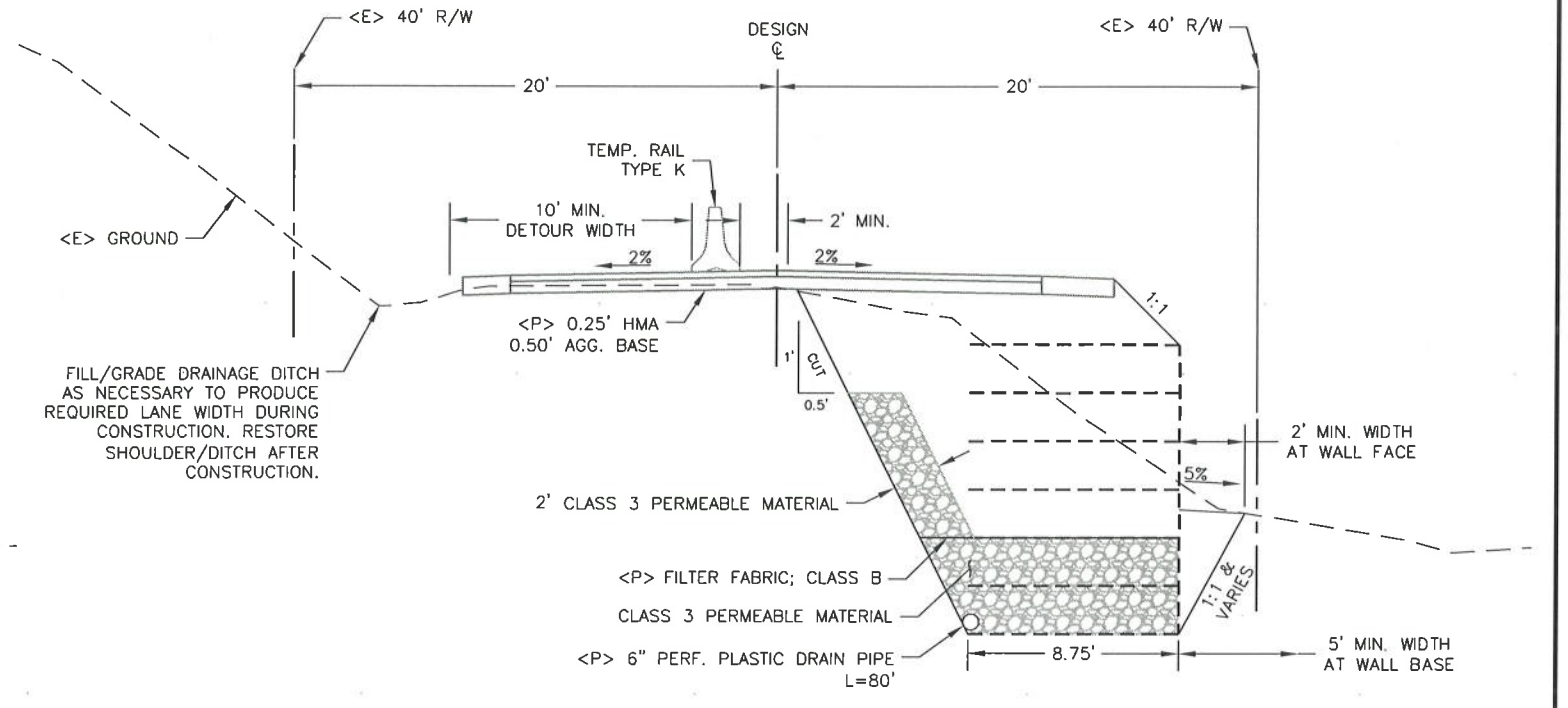


BAR IS ONE INCH ON ORIGINAL DRAWING	ROAD NAME: BAIR ROAD	DESIGN SECTION
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NO.: C6L300	ENGINEERING DIVISION
	MILE POST: 0.50	DESIGNED BY: RMD
	PROJECT NO.: FEMA-4308-DR-CA PW 1305	DRAWN BY: RMD
	CONTRACT NO.: 217375	REVIEWED BY: JAB
	DRAWING FILE NAME: BAIR RD 0.50	APPROVED BY: TRS
	PLOT DATE: 02/13/2020	

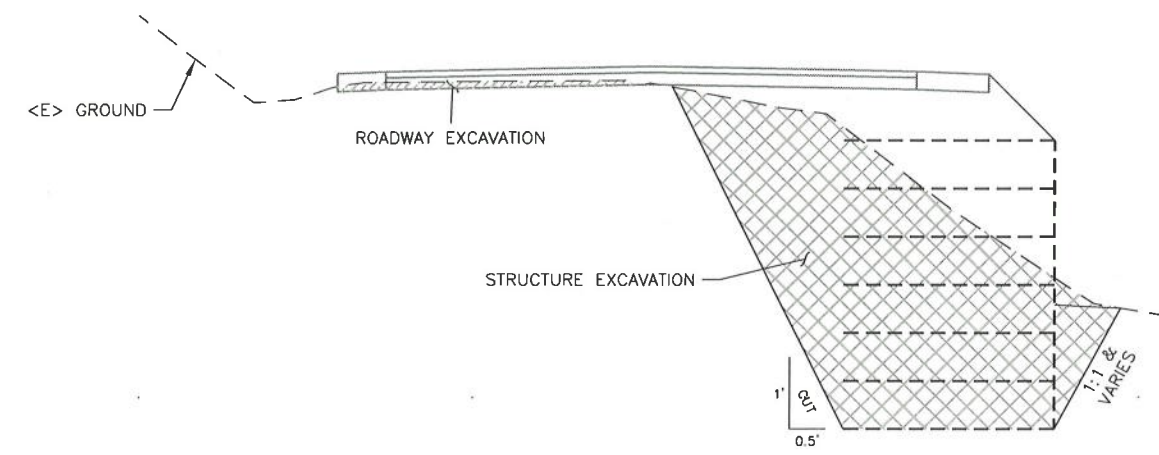
COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 5 OF 22
STORM DAMAGE REPAIR TO BAIR ROAD PM 0.50	
TYPICAL SECTIONS	



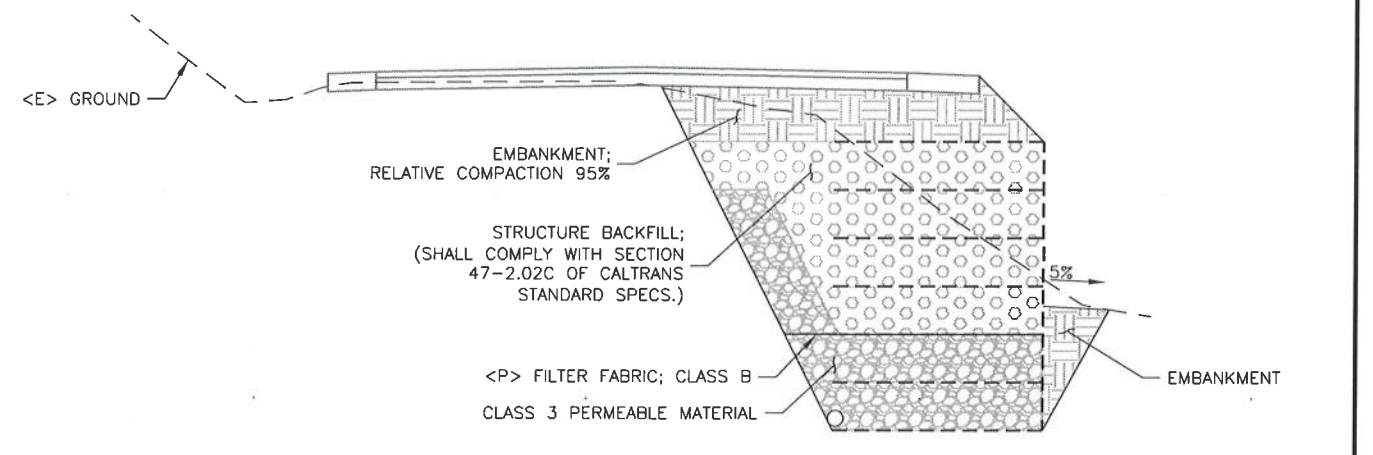
TYPICAL ROAD SECTION
Scale: 1"=4'



TYPICAL SECTION
Scale: 1"=4'



TYP. EXCAVATION SECTION
Scale: 1"=4'

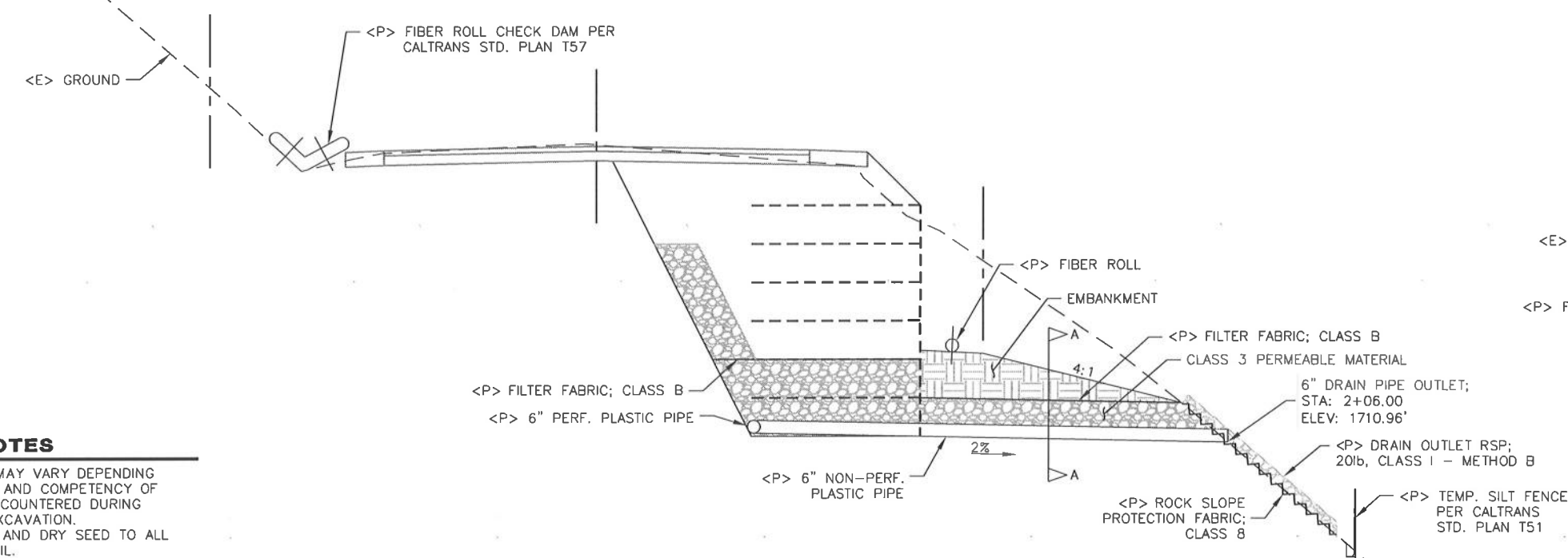


TYP. BACKFILL SECTION
Scale: 1"=4'

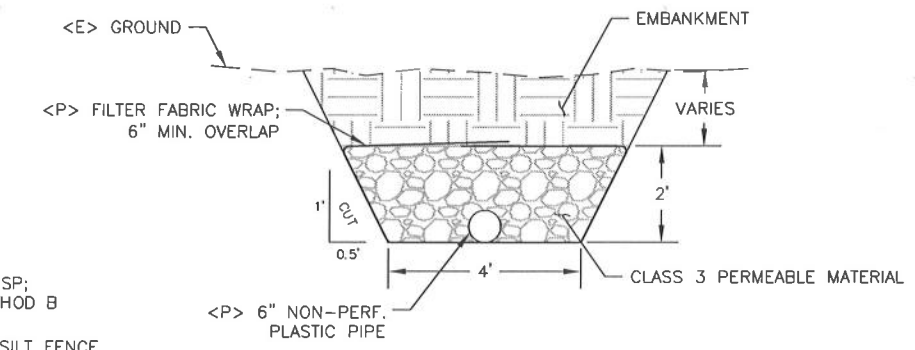


BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: BAIR ROAD	DESIGN SECTION
	ROAD NO: C6L300	ENGINEERING DIVISION
	PROJECT NO.: FEMA-4308-DR-CA PW 1305	DESIGNED BY: RMD
	CONTRACT NO.: 217375	DRAWN BY: RMD
	DRAWING FILE NAME: BAIR RD 0.50	REVIEWED BY: JAB
	APPROVED BY: TRS	
	MILE POST: 0.50	
	PLOT DATE: 02/13/2020	

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS STORM DAMAGE REPAIR TO BAIR ROAD PM 0.50 EROSION CONTROL	SHEET 6 OF 22
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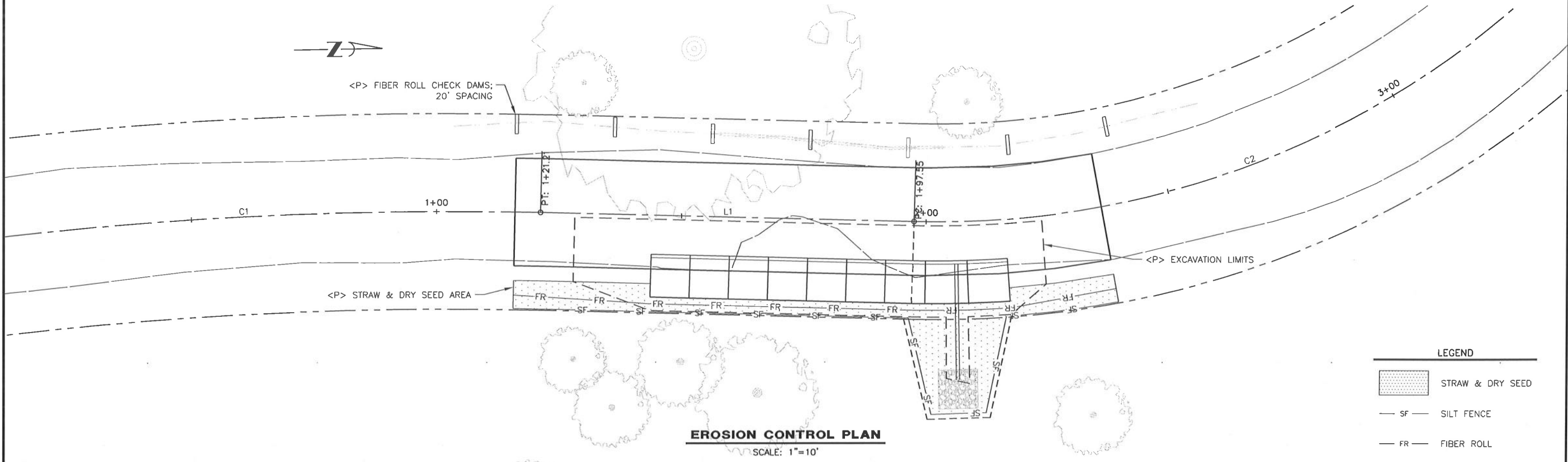


EROSION CONTROL SECTION
Scale: 1"=4'



OUTLET PIPE SECTION A-A
Scale: 1"=2'

- NOTES**
1. WALL DEPTH MAY VARY DEPENDING ON THE TYPE AND COMPETENCY OF MATERIALS ENCOUNTERED DURING STRUCTURE EXCAVATION.
 2. APPLY STRAW AND DRY SEED TO ALL DISTURBED SOIL.



EROSION CONTROL PLAN
SCALE: 1"=10'

LEGEND

	STRAW & DRY SEED
	SILT FENCE
	FIBER ROLL



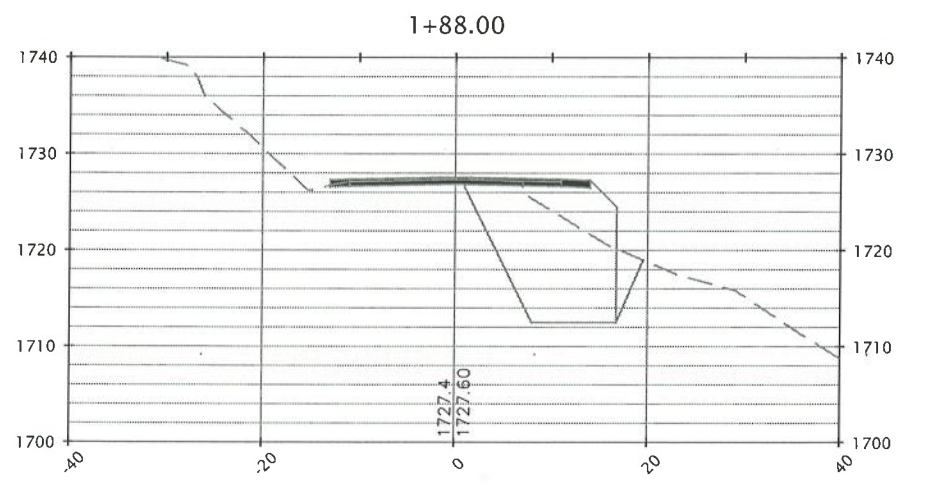
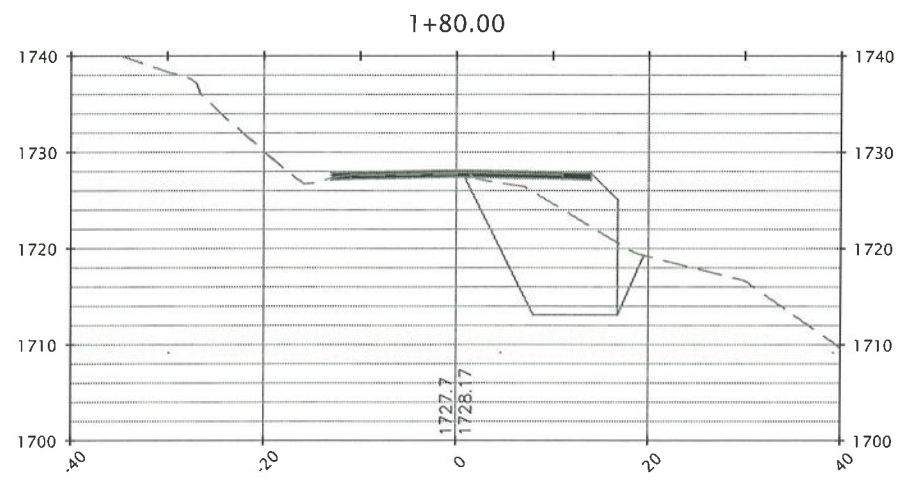
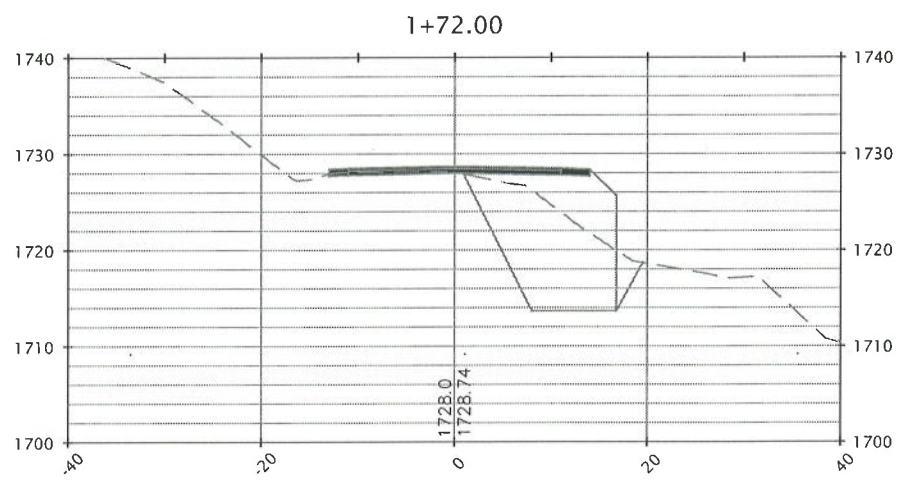
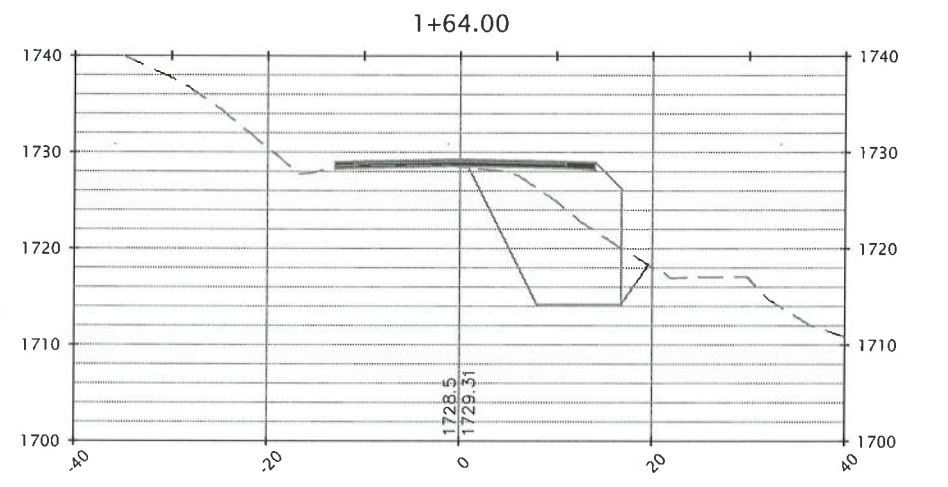
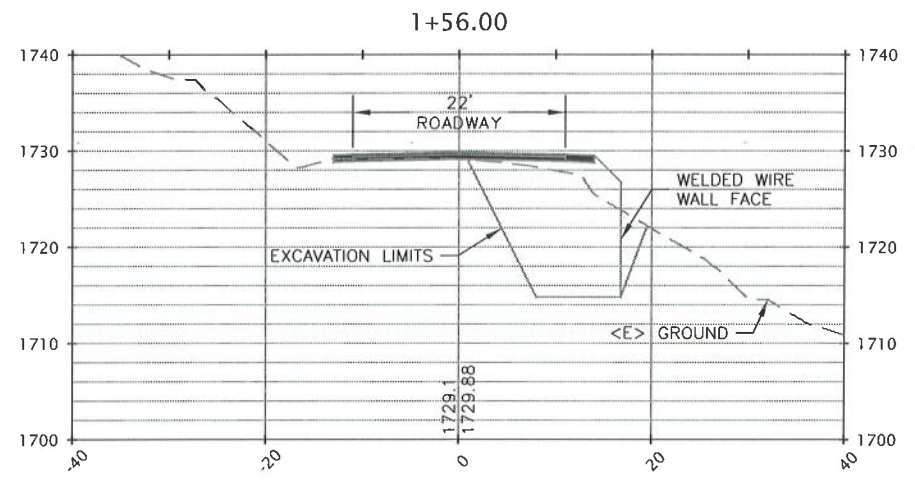
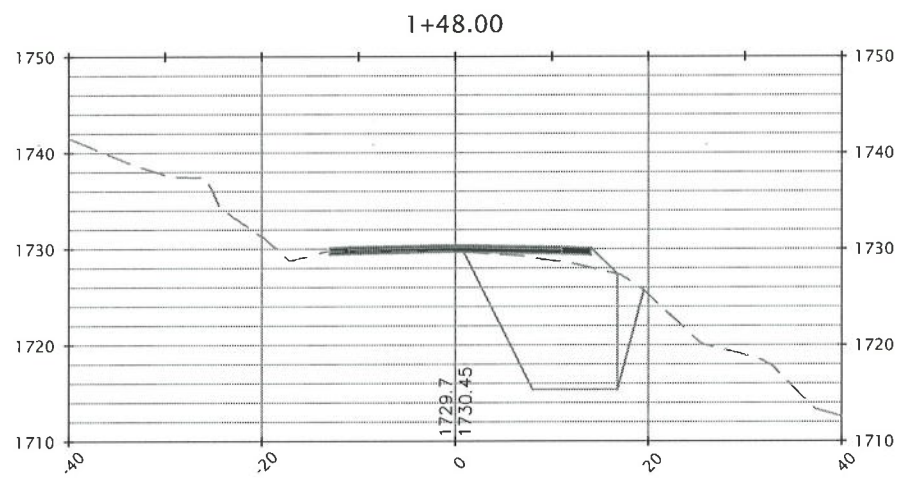
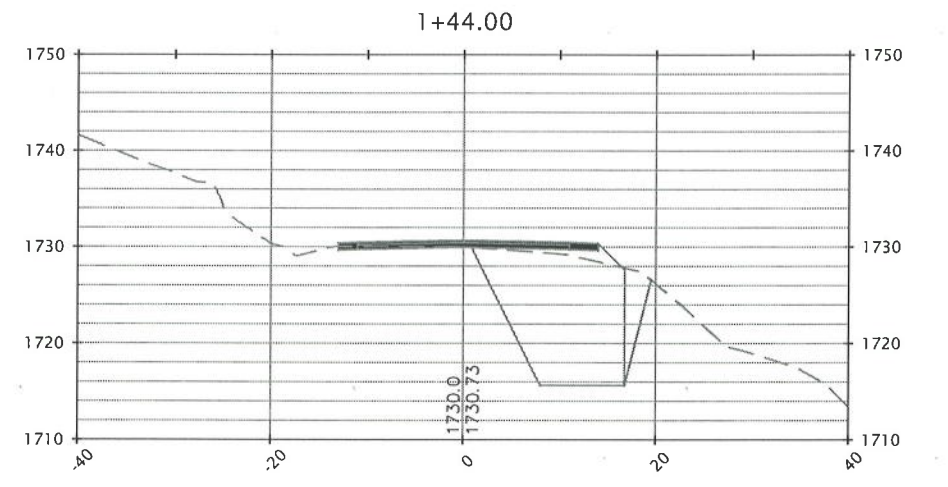
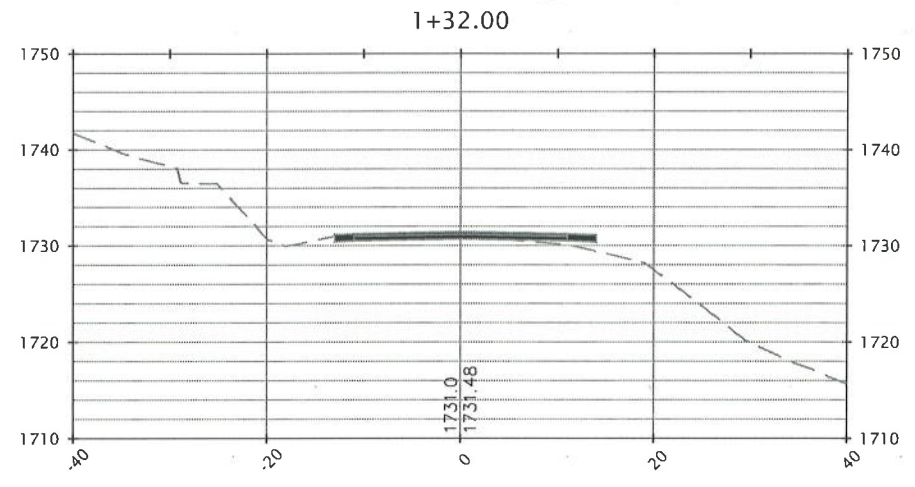
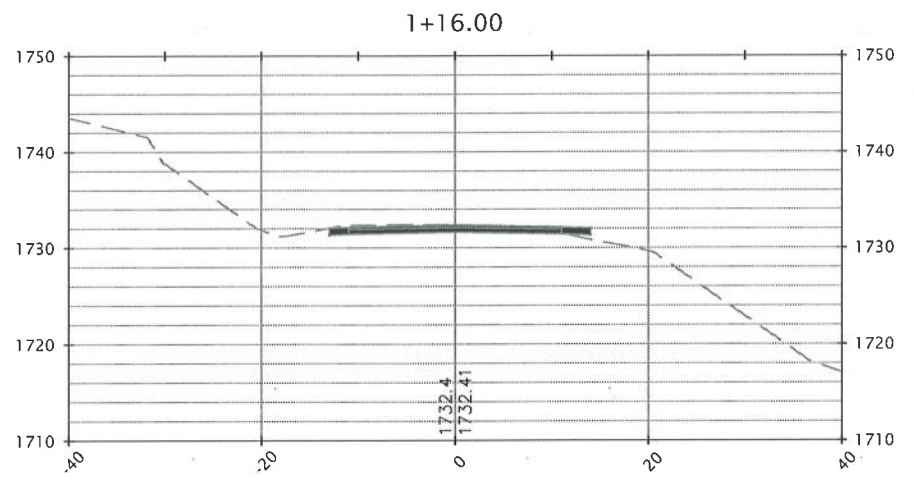
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

ROAD NAME:	BAIR ROAD	
ROAD NO.:	CE1300	MILE POST: 0.50
PROJECT NO.:	FEMA-4308 DR CA PW 1305	
CONTRACT NO.:	217375	
DRAWING FILE NAME:	BAIR RD 0.50	
PLOT DATE:	02/13/2020	

DESIGN SECTION	ENGINEERING DIVISION
DESIGNED BY:	RMD
DRAWN BY:	RMD
REVIEWED BY:	JAB
APPROVED BY:	TRS

COUNTY OF HUMBOLDT	DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR TO BAIR ROAD PM 0.50	
SECTIONS	

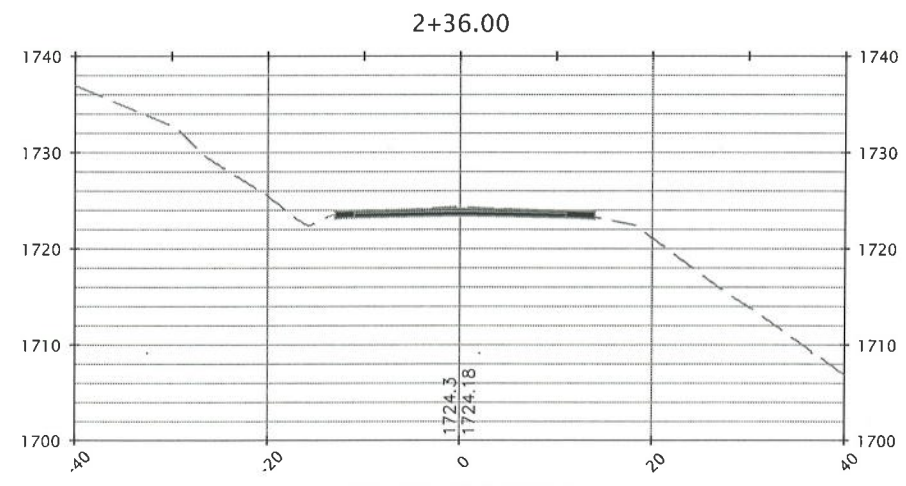
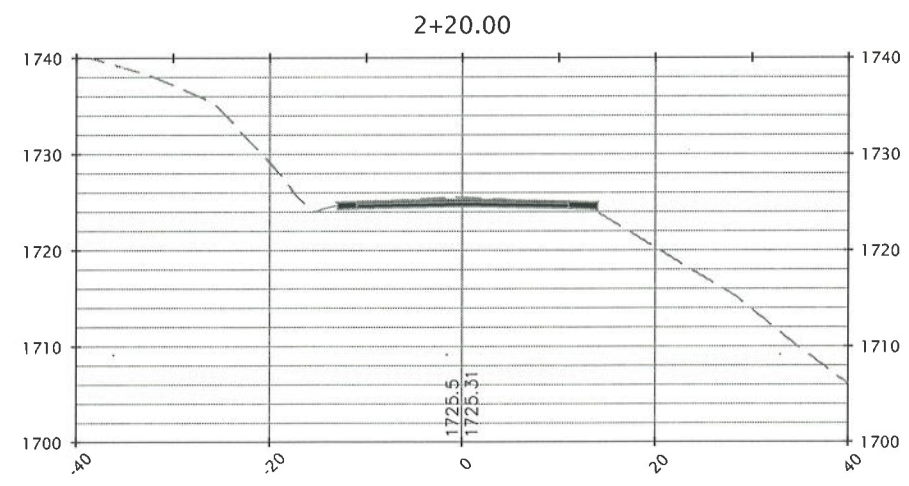
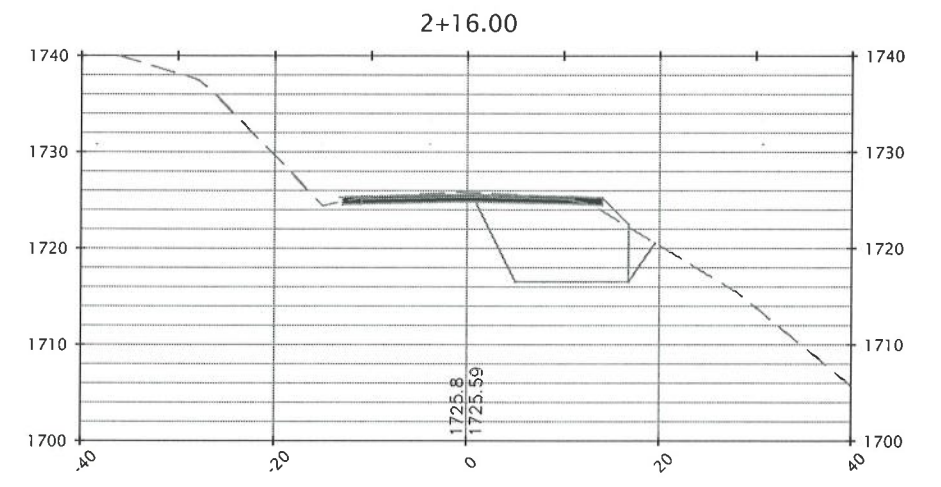
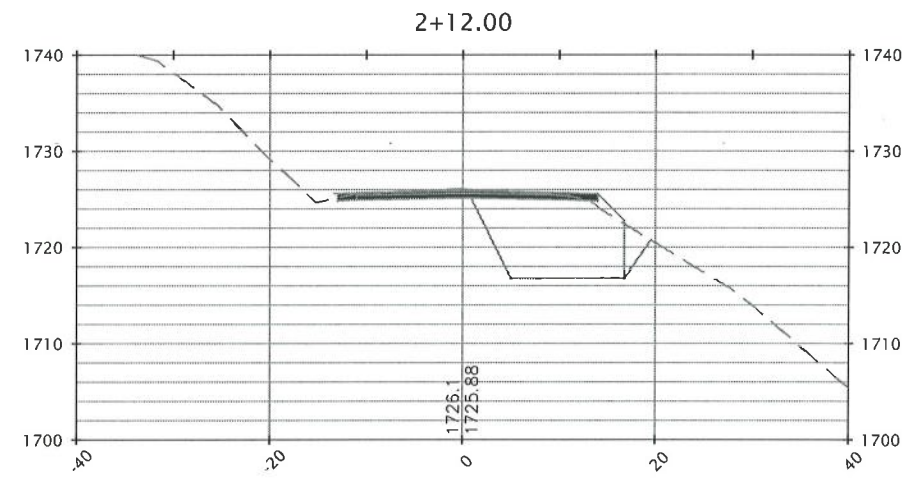
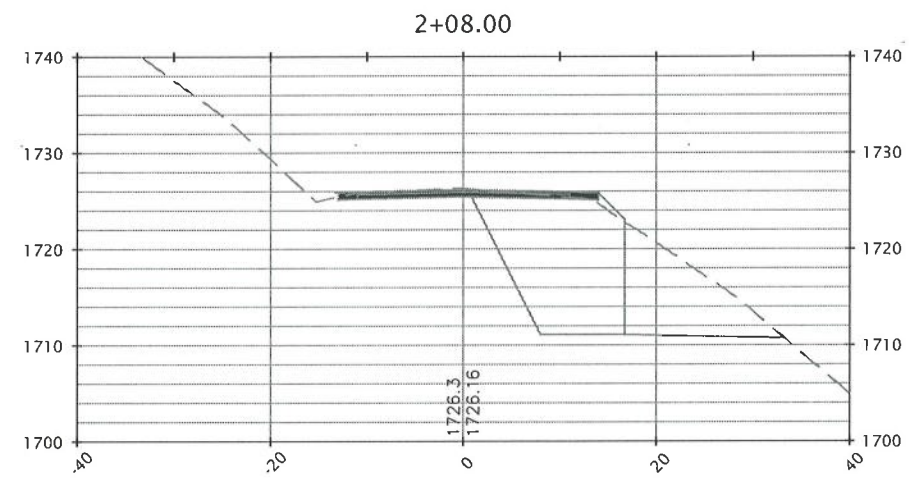
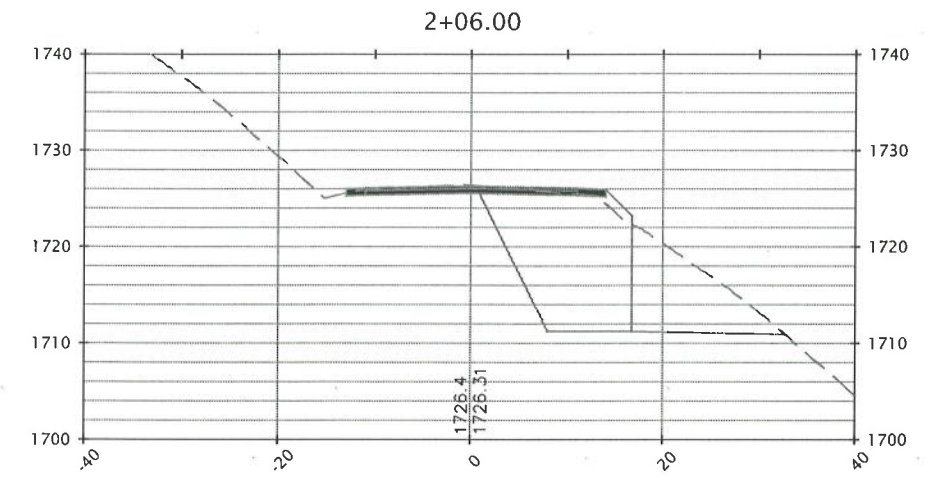
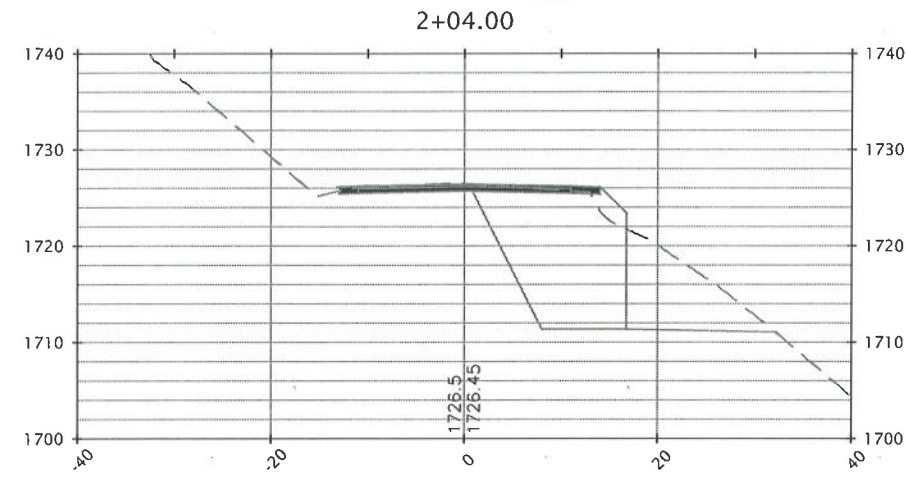
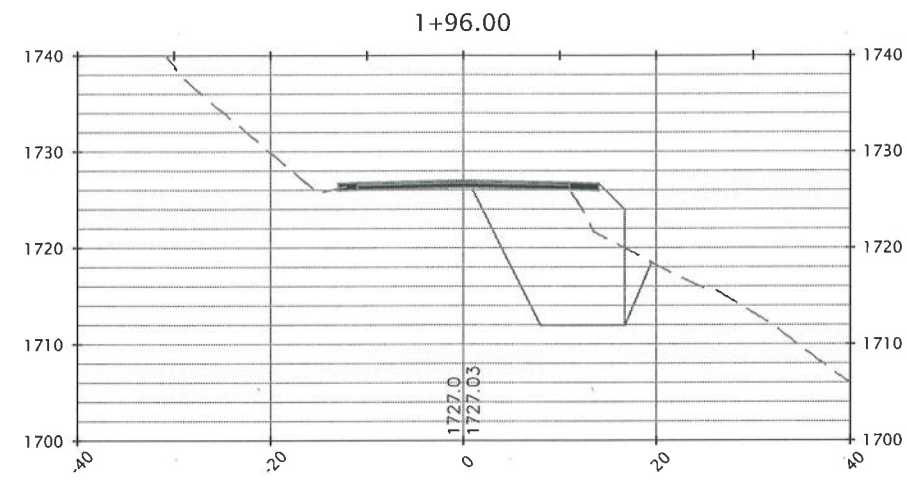
SHEET
7
OF
22



SECTION VIEWS
Scale: 1"=10'



BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: BAIR ROAD	DESIGN SECTION	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS STORM DAMAGE REPAIR TO BAIR ROAD PM 0.50 SECTIONS	SHEET 8 OF 22	
	ROAD NO.: C6L300	MILE POST: 0.50			ENGINEERING DIVISION
	PROJECT NO.: FEMA-4308 DR CA PW 1305	CONTRACT NO.: 217375			DESIGNED BY: RMD
	DRAWING FILE NAME: BAIR RD 0.50	PLOT DATE: 02/13/2020			DRAWN BY: RMD REVIEWED BY: JAB APPROVED BY: TRS

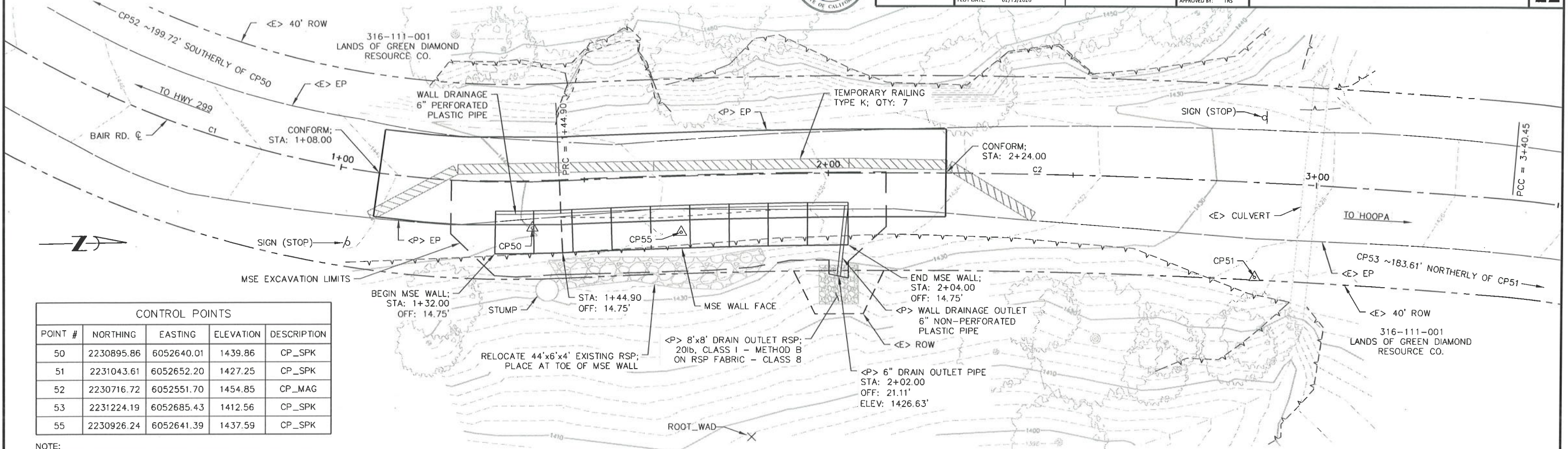


SECTION VIEWS
Scale: 1"=10'



ROAD NAME: BAIR ROAD	DESIGN SECTION: ENGINEERING DIVISION
ROAD NO.: 6L309	MILE POST: 1.30
PROJECT NO.: FEMA 4308 DR CA PW 1305	DESIGNED BY: RMD
CONTRACT NO.: 217376	DRAWN BY: RMD
DRAWING FILE NAME: BAIR RD I.30	REVIEWED BY: JAB
PLOT DATE: 02/13/2020	APPROVED BY: TRS

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS STORM DAMAGE REPAIR TO BAIR ROAD PM 1.30 PLAN AND PROFILE	SHEET 9 OF 22
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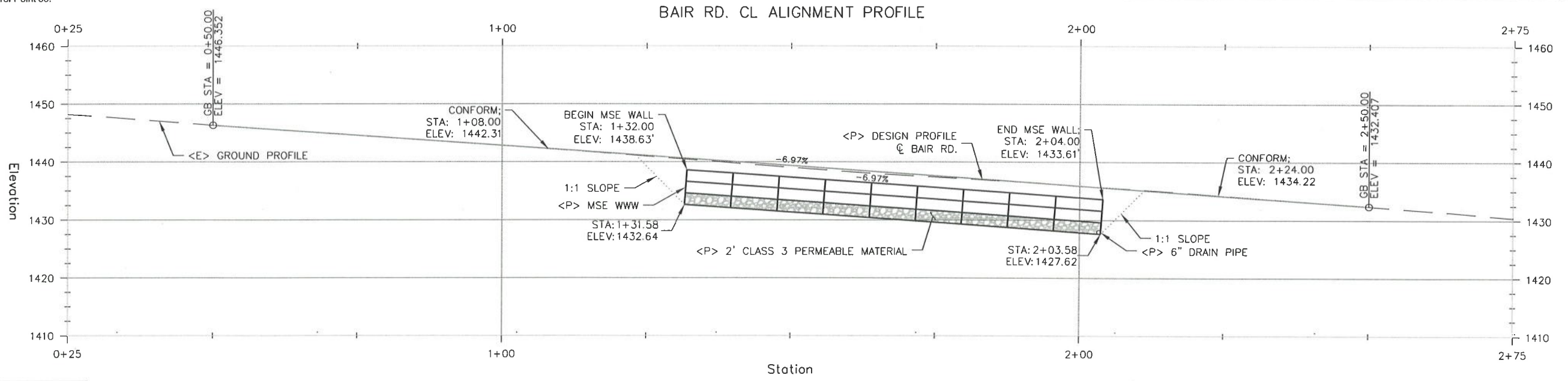


CONTROL POINTS				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
50	2230895.86	6052640.01	1439.86	CP_SPK
51	2231043.61	6052652.20	1427.25	CP_SPK
52	2230716.72	6052551.70	1454.85	CP_MAG
53	2231224.19	6052685.43	1412.56	CP_SPK
55	2230926.24	6052641.39	1437.59	CP_SPK

NOTE:
 Coordinates for this survey are California Coordinate System of 1983 (CCS83) Zone 1, NAD 83 (2011), Epoch 2010.0 based on a static GPS Control Survey using the NGS OPUS Post Processing Software. The control point identified as Point 55 was held for horizontal positions shown hereon. The mapping angle is 1 degree 12 minutes 18 seconds; rotate bearings hereon counterclockwise by this angle to obtain "True" or Geodetic Bearings. Grid distances shown should be divided by the Combined Scale factor of 0.99983208 to obtain ground distances. Mapping angle and grid scale factor are taken at control point number 55, a 12 inch galvanized spike in road shoulder. Elevations are NAVD 88 datum based on OPUS solution utilizing the GEOID 12B model; an elevation of 1437.59 feet was measured at the aforementioned Control Point 55.

PLAN VIEW
 Scale: 1"=10'

CURVE TABLE						
CURVE #	RADIUS	LENGTH	DELTA	NORTHING; BEGIN	EASTING; BEGIN	STATION
C1	199.96'	144.90'	041°31'09"	2230767.44	6052584.40	0+00.00
C2	1499.74'	195.54'	007°28'14"	2230901.51	6052630.44	1+44.90
C3	179.97'	66.40'	021°08'20"	2231096.81	6052637.02	3+40.45



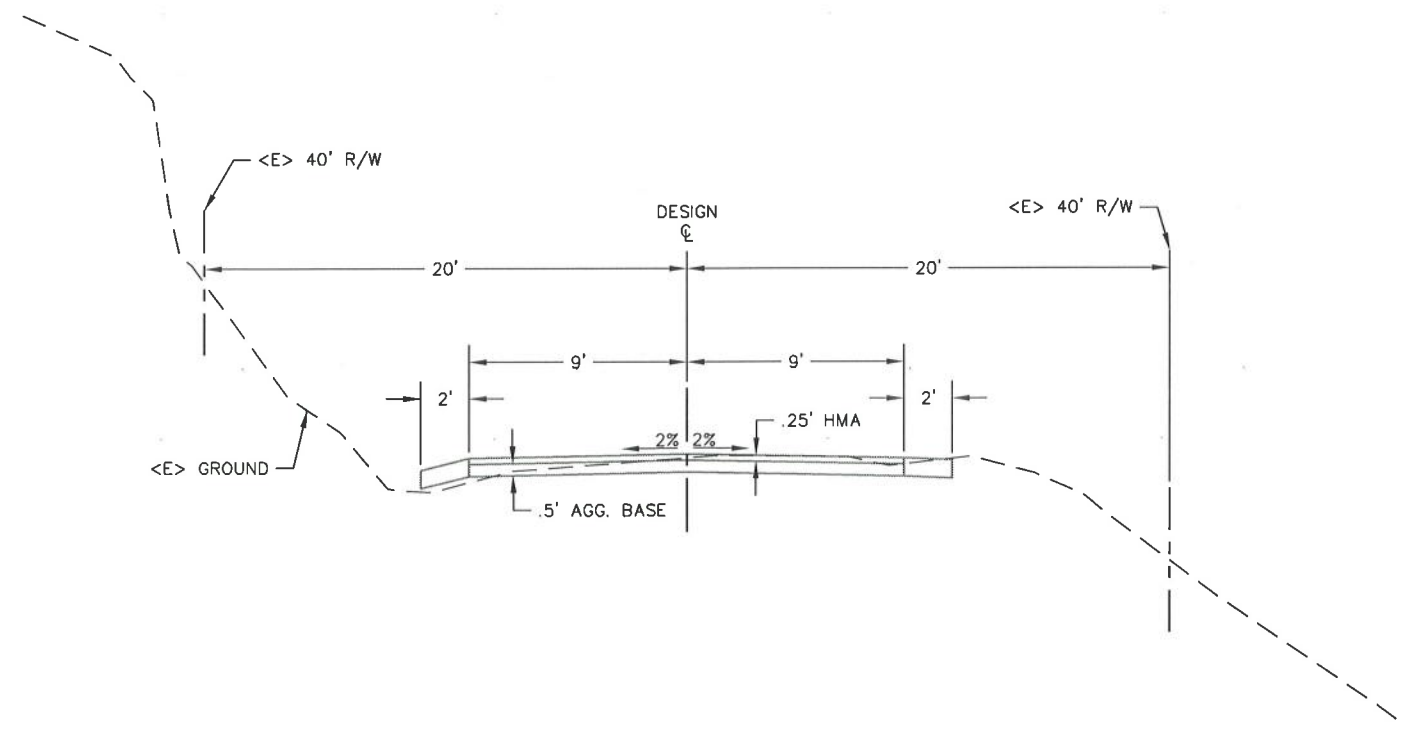
PROFILE VIEW
 HORIZ.: 1"=10'
 VERT.: 1"=10'

NOTES

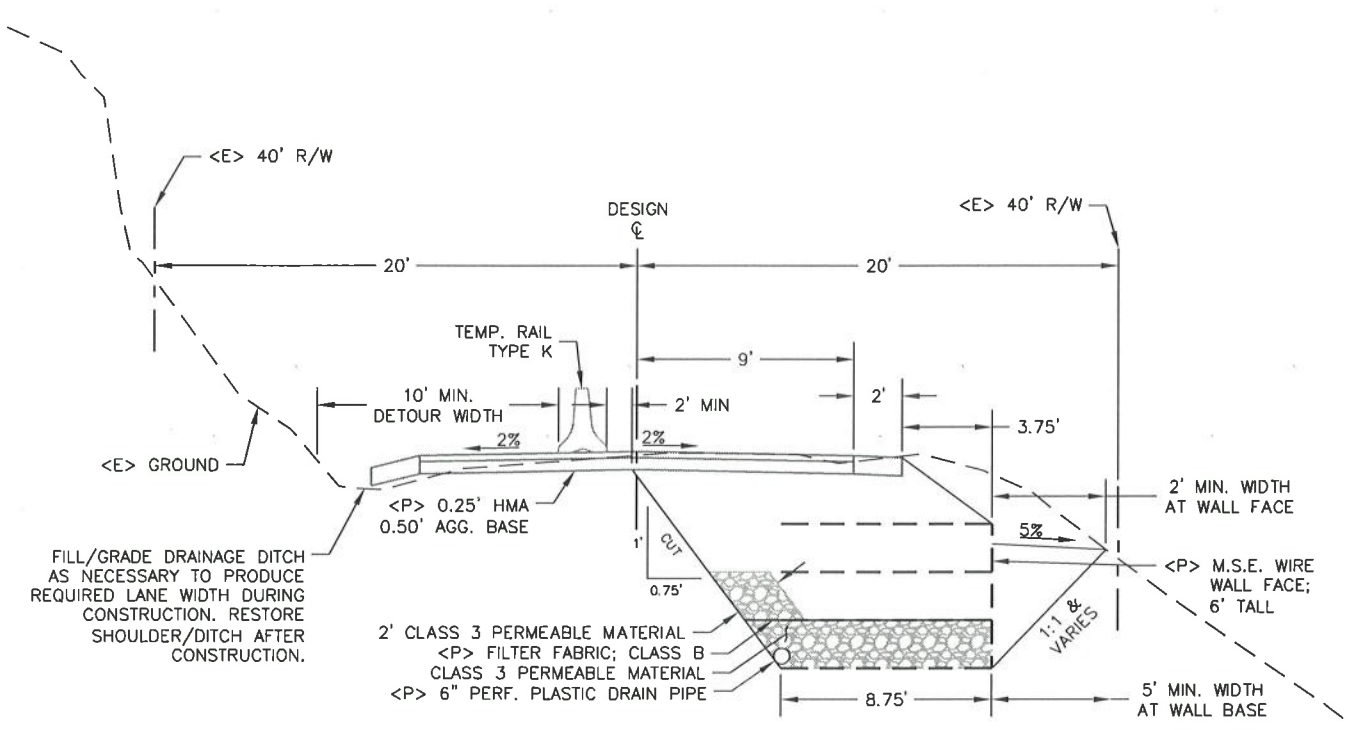
1. WALL DEPTH MAY VARY DEPENDING ON THE TYPE AND COMPETENCY OF MATERIALS ENCOUNTERED DURING STRUCTURE EXCAVATION.
2. APPLY STRAW AND DRY SEED TO ALL DISTURBED SOIL.



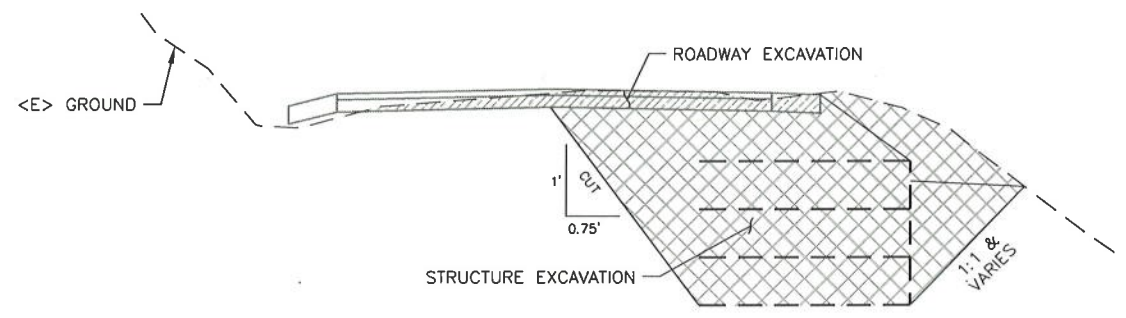
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: BAIR ROAD	DESIGN SECTION	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS STORM DAMAGE REPAIR TO BAIR ROAD PM 1.30 TYPICAL SECTIONS	SHEET 10 OF 22	
	ROAD NO.: 6L300	MILE POST: 1.30			ENGINEERING DIVISION
	PROJECT NO.: FEMA-4308-DR CA PW 1305	DESIGNED BY: RMD			DRAWN BY: RMD
	CONTRACT NO.: 217376	REVIEWED BY: JAB			APPROVED BY: TRS
	DRAWING FILE NAME: BAIR RD 1.30				
	PLOT DATE: 02/13/2020				



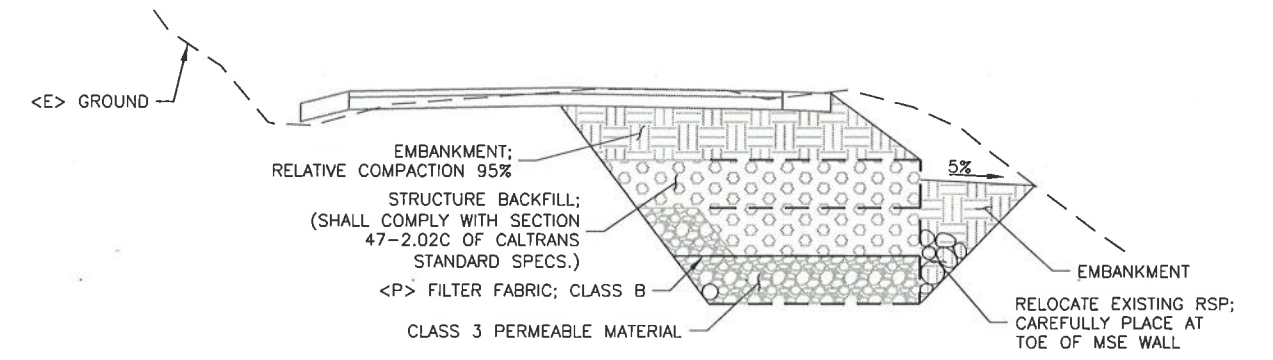
TYPICAL ROAD SECTION
SCALE: 1"=4'



TYPICAL SECTION
SCALE: 1"=4'



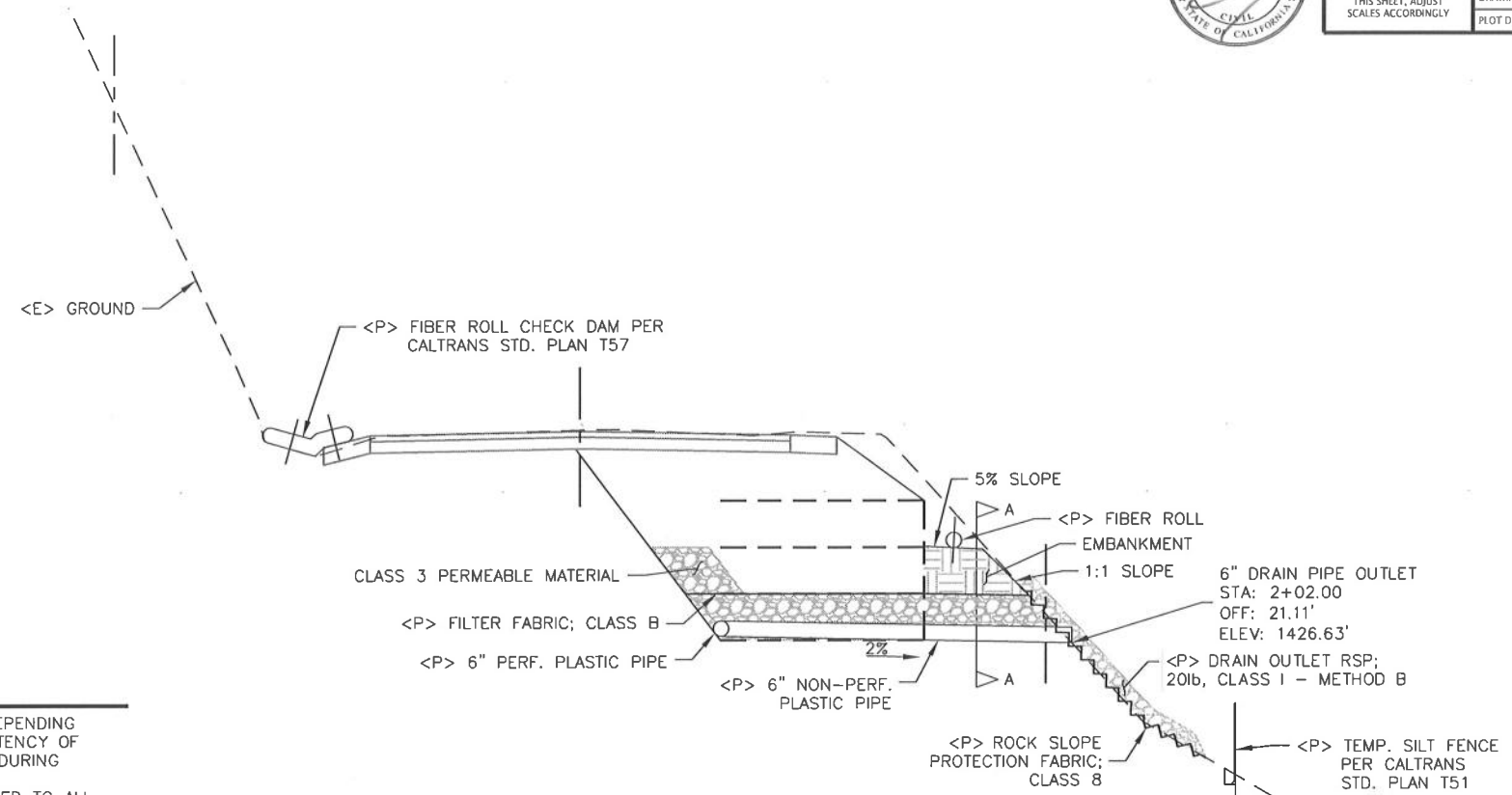
TYP. EXCAVATION SECTION
SCALE: 1"=4'



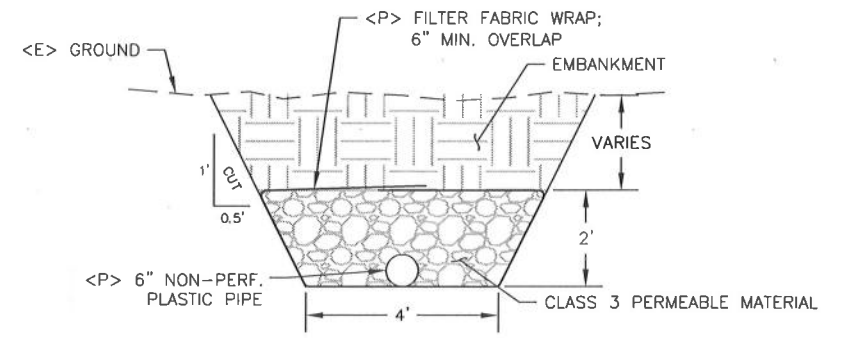
TYP. BACKFILL SECTION
SCALE: 1"=4'



BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: BAIR ROAD	DESIGN SECTION	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS STORM DAMAGE REPAIR TO BAIR ROAD PM 1.30 EROSION CONTROL	SHEET 11 OF 22	
	ROAD NO.: 6L300	MILE POST: 1.30			ENGINEERING DIVISION
	PROJECT NO.: FEMA-4308-DR-CA PW 1305				DESIGNED BY: RMD
	CONTRACT NO.: 217376				DRAWN BY: RMD
	DRAWING FILE NAME: BAIR RD 1.30	REVIEWED BY: JAB			
	PLOT DATE: 02/13/2020	APPROVED BY: TRS			

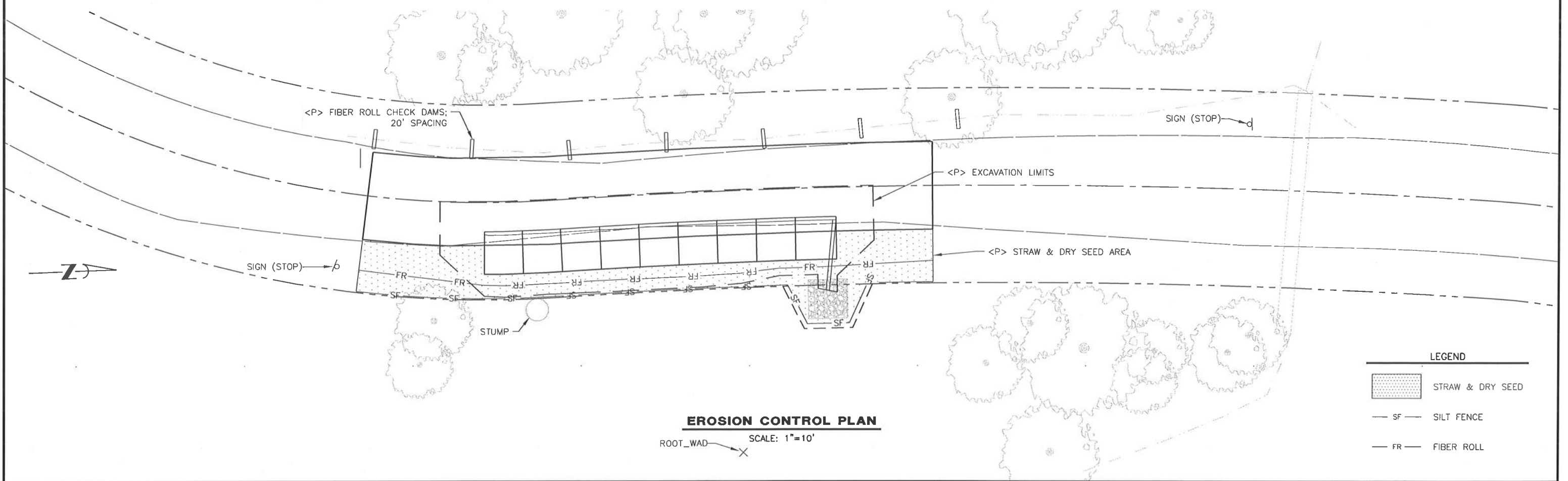


EROSION CONTROL SECTION
SCALE: 1"=4'



OUTLET PIPE SECTION A-A
SCALE: 1"=2'

- NOTES**
1. WALL DEPTH MAY VARY DEPENDING ON THE TYPE AND COMPETENCY OF MATERIALS ENCOUNTERED DURING STRUCTURE EXCAVATION.
 2. APPLY STRAW AND DRY SEED TO ALL DISTURBED SOIL.



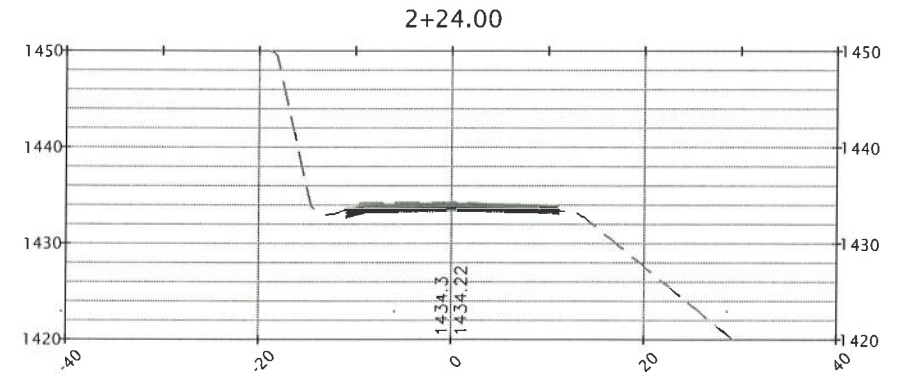
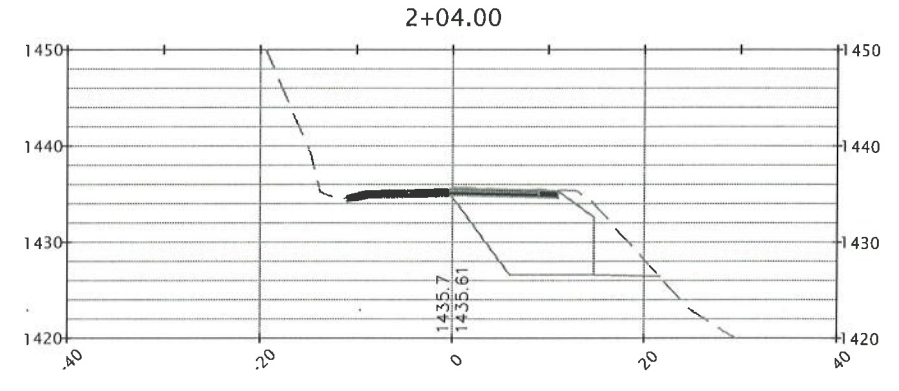
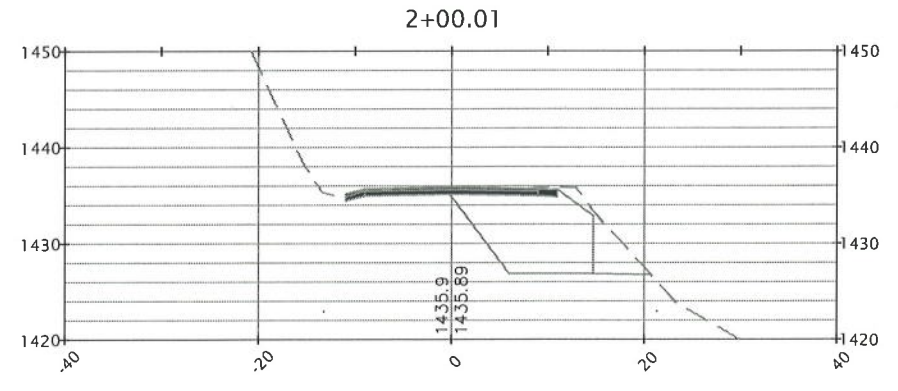
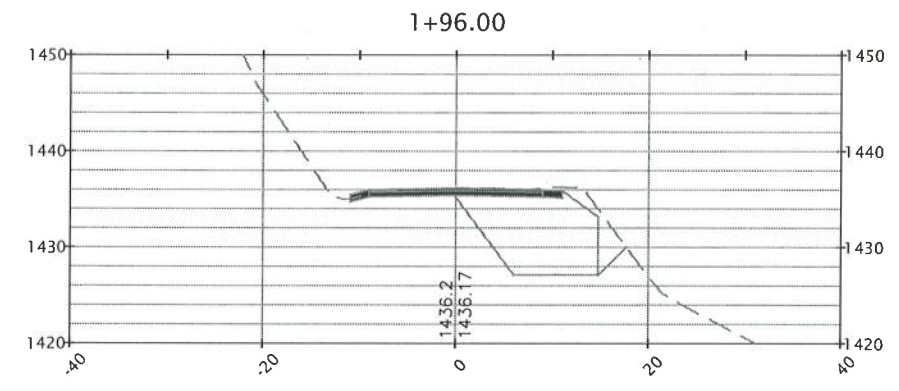
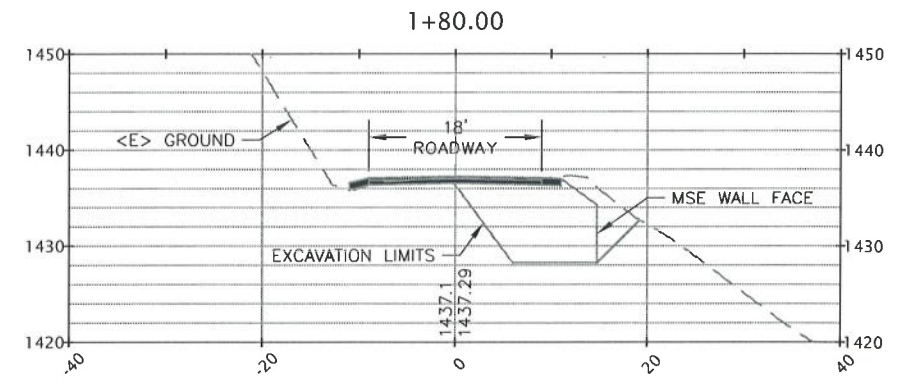
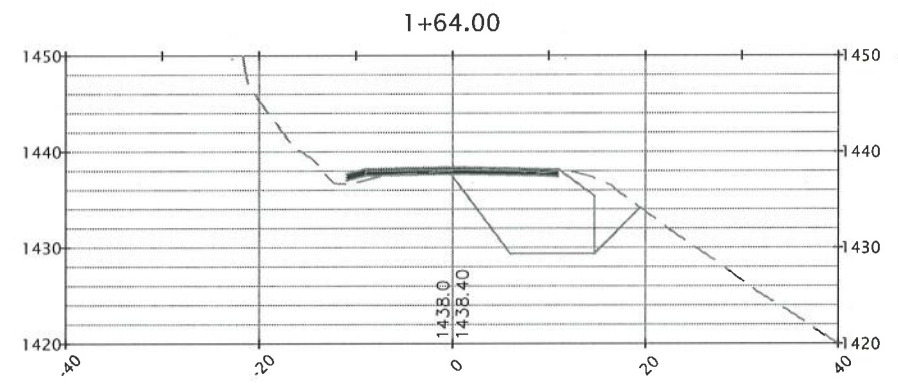
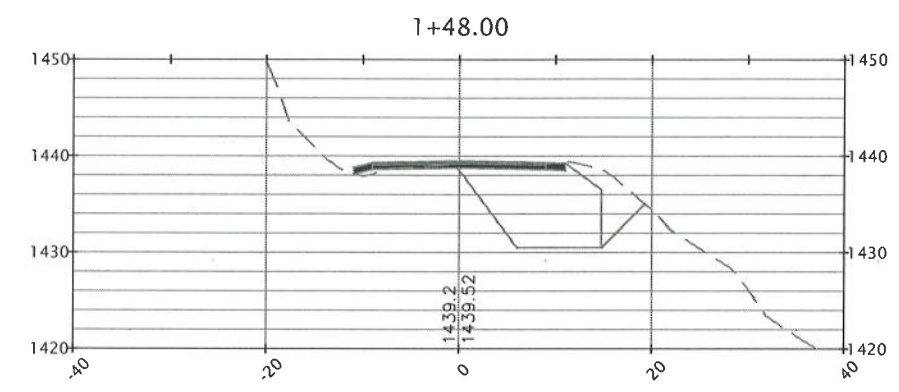
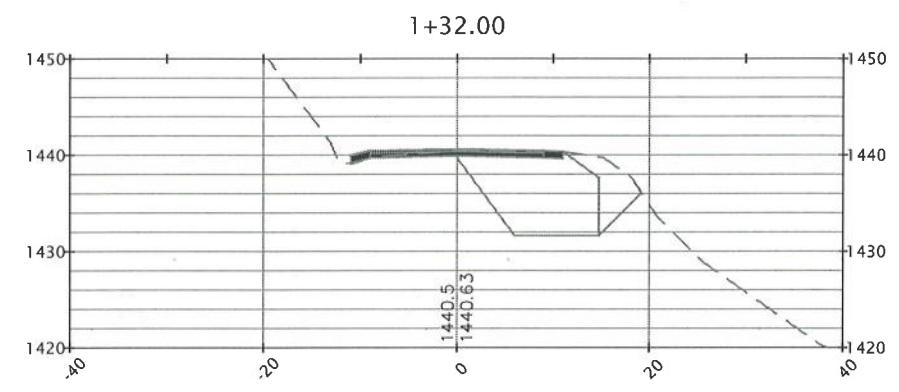
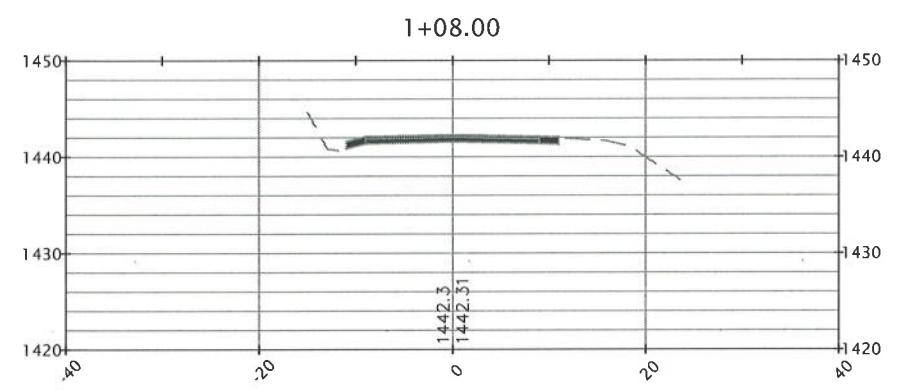
EROSION CONTROL PLAN
SCALE: 1"=10'

LEGEND

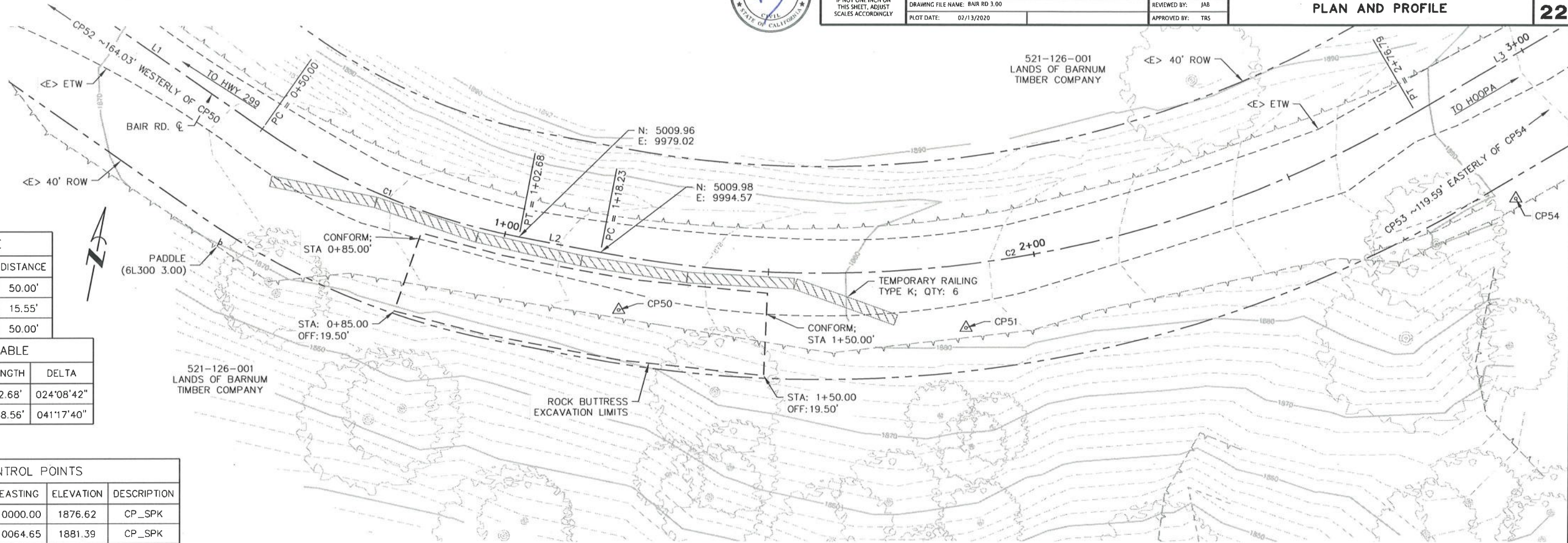
	STRAW & DRY SEED
	SILT FENCE
	FIBER ROLL



BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: BAIR ROAD	DESIGN SECTION	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 12 OF 22
	ROAD NO.: 6L300	MILE POST: 1.30		
	PROJECT NO.: FEMA-4308-DR CA PW 1305	DESIGNED BY: RMD	STORM DAMAGE REPAIR TO BAIR ROAD PM 1.30	SECTIONS
	CONTRACT NO.: 217376	DRAWN BY: RMD		
	DRAWING FILE NAME: BAIR RD 1.30	REVIEWED BY: JAB		
	PLOT DATE: 02/13/2020	APPROVED BY: TRS		



SECTION VIEWS
Scale: 1"=10'



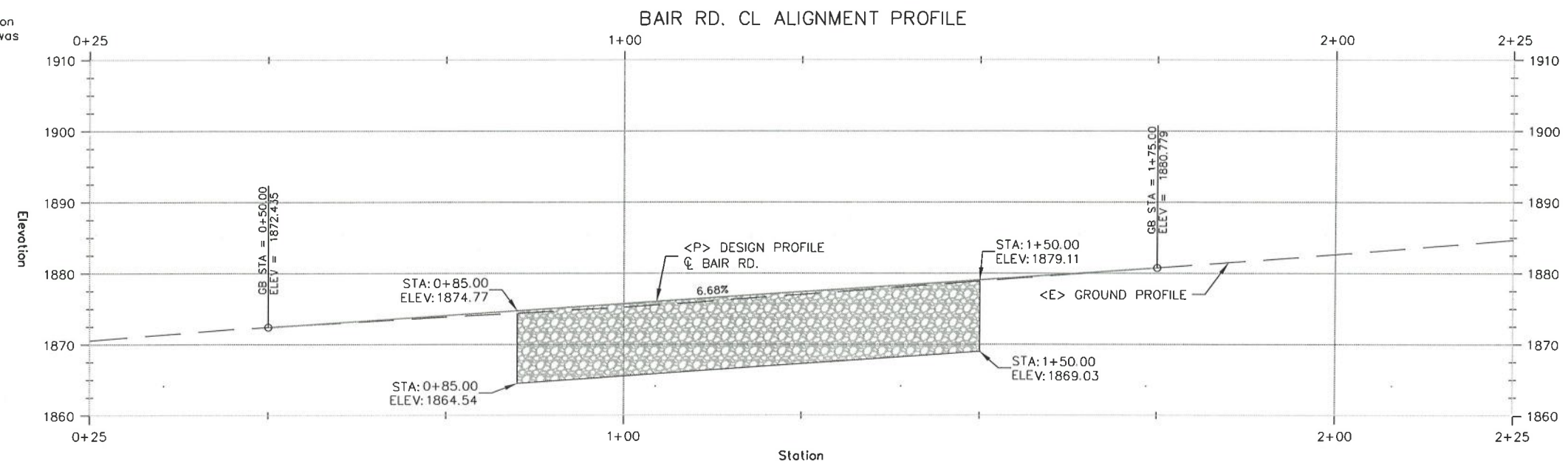
LINE #	BEARING	DISTANCE
L1	S65°56'08"E	50.00'
L2	N89°55'10"E	15.55'
L3	N48°37'30"E	50.00'

CURVE #	RADIUS	LENGTH	DELTA
C1	125.00'	52.68'	024°08'42"
C2	220.00'	158.56'	041°17'40"

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
50	5000.00	10000.00	1876.62	CP_SPK
51	5009.08	10064.65	1881.39	CP_SPK
52	5064.93	9849.37	1865.77	CP_SPK
53	5140.75	10242.25	1902.99	CP_SPK
54	5052.64	10161.39	1891.08	CP_SPK

NOTE:
 Horizontal and vertical datums are assumed. CP 50 was assumed with Northing 5,000.00, Easting 10,000.00. The elevation of CP 53 was determined by handheld GPS methods as Elevation 1903 feet. This is an approximation only and not tied to any datum. A compass bearing was taken from CP 50 to CP 51 of N82°E to establish the Basis of Bearings.

PLAN VIEW
 Scale: 1"=10'



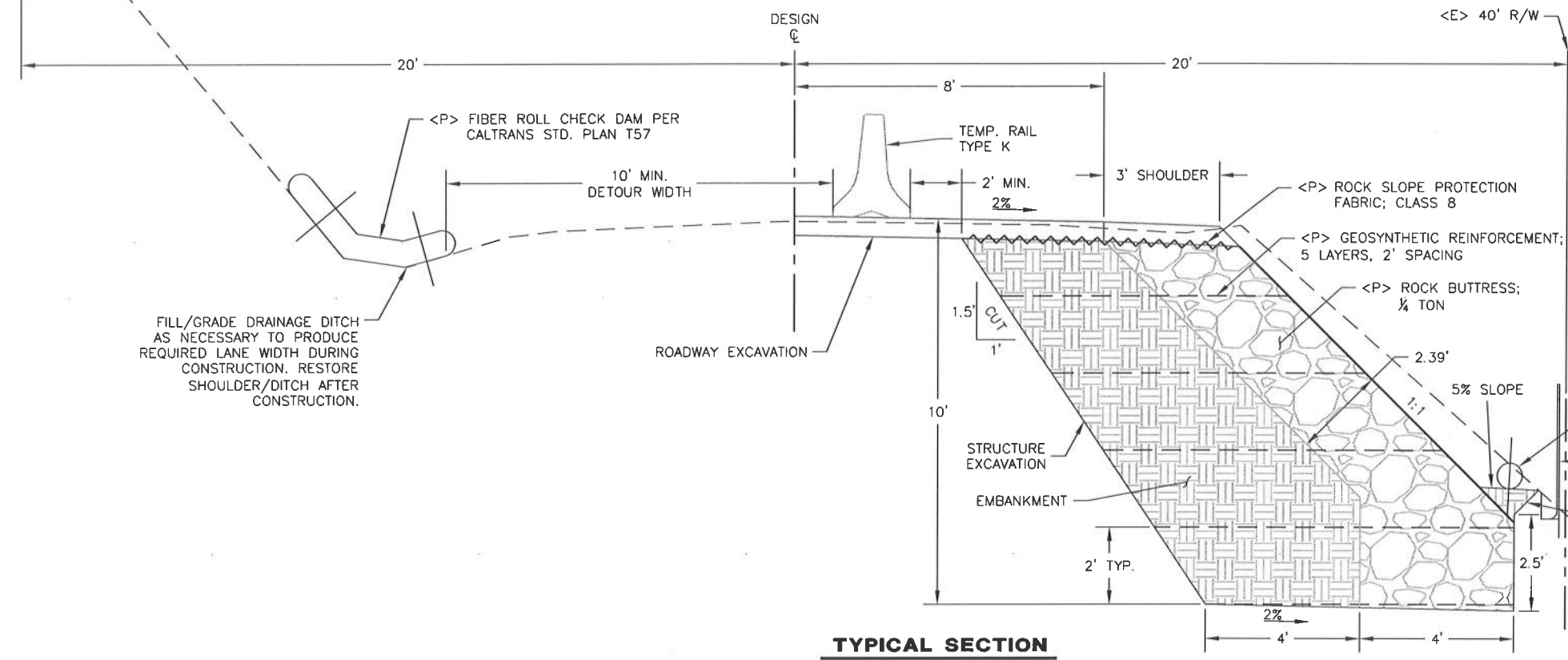
PROFILE VIEW
 HORIZ.: 1"=10'
 VERT.: 1"=10'



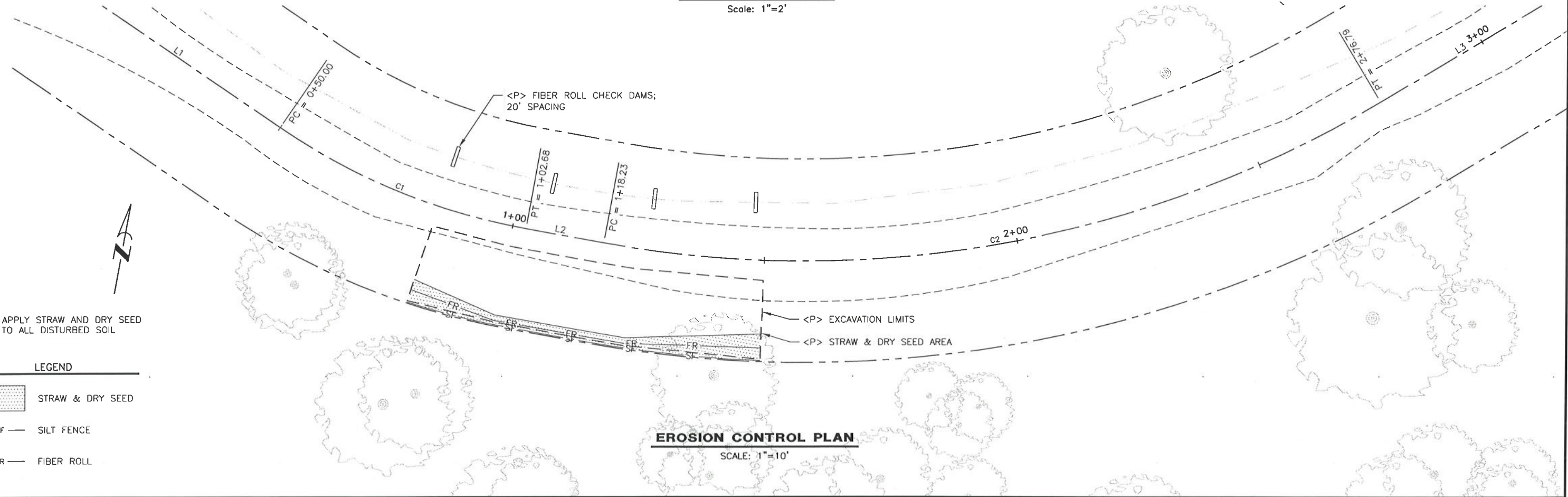
ROAD NAME: BAIR ROAD	DESIGN SECTION
ROAD NO.: 6L300	ENGINEERING DIVISION
MILE POST: 3.00	DESIGNED BY: RMD
PROJECT NO.: FEMA-4308-DR CA PW 1305	DRAWN BY: RMD
CONTRACT NO.: 217542	REVIEWED BY: JAB
DRAWING FILE NAME: BAIR RD 3.00	APPROVED BY: TRS
PLOT DATE: 02/13/2020	

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 14
STORM DAMAGE REPAIR TO BAIR ROAD PM 3.00	OF
TYPICAL SECTION & EROSION CONTROL PLAN	22

<E> 40' R/W



TYPICAL SECTION
Scale: 1"=2'



EROSION CONTROL PLAN
SCALE: 1"=10'

NOTES: APPLY STRAW AND DRY SEED TO ALL DISTURBED SOIL

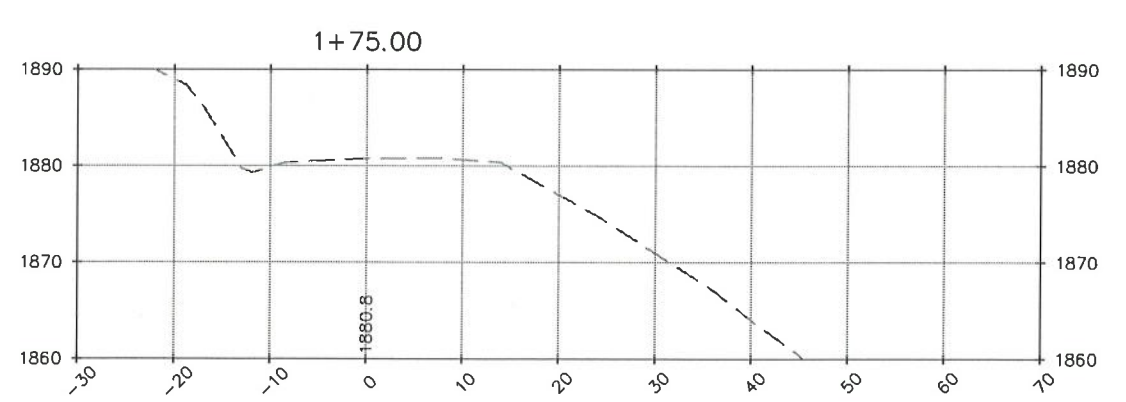
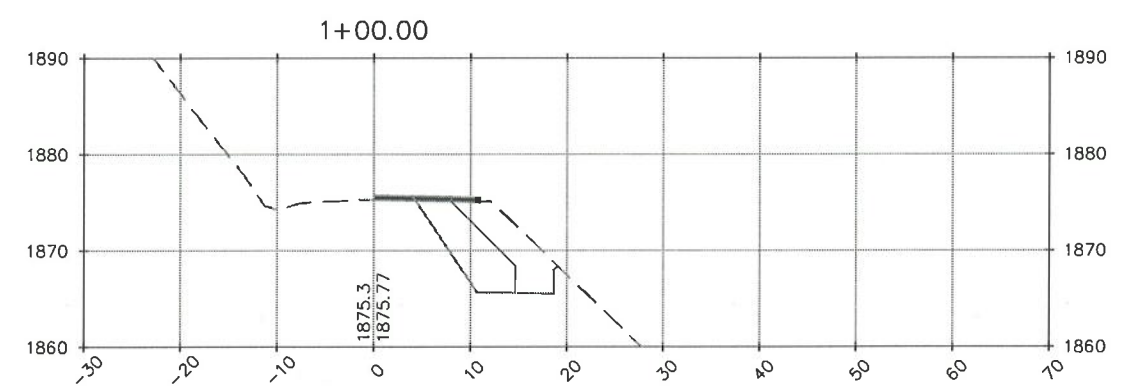
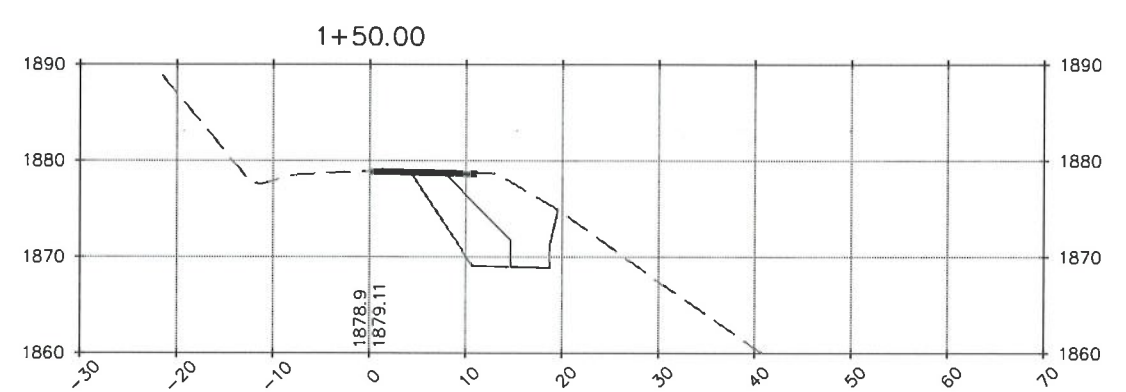
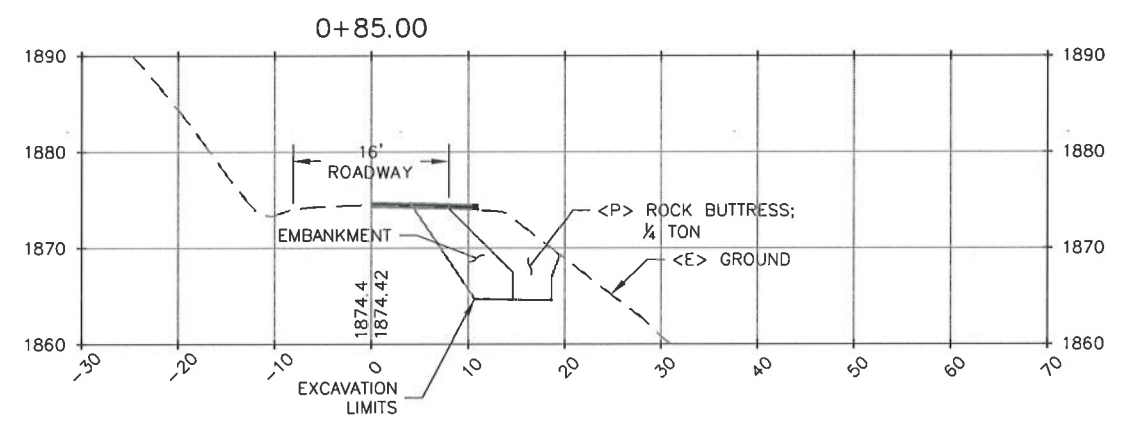
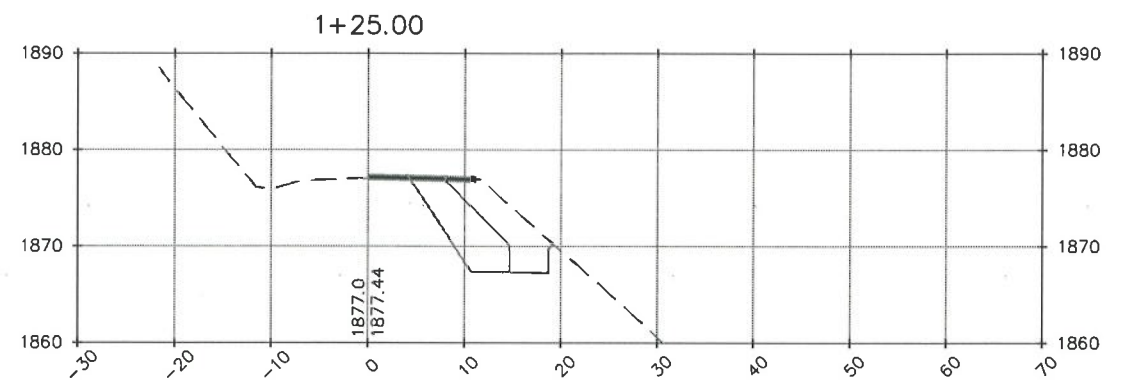
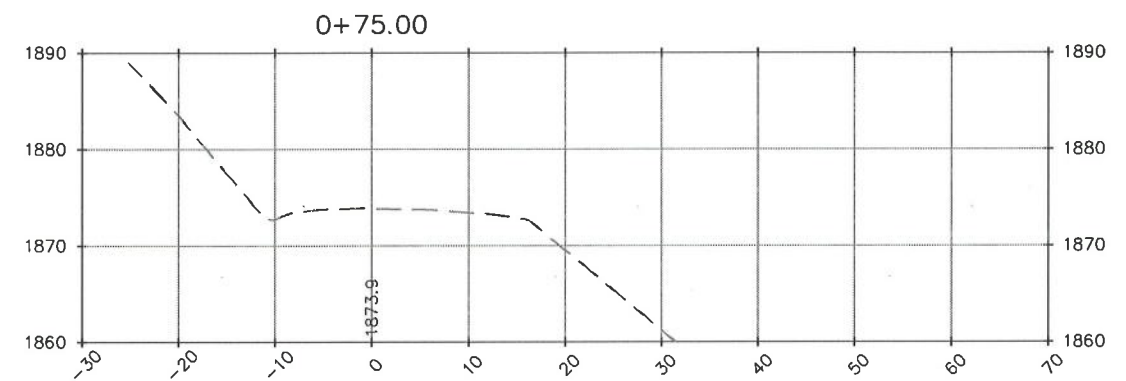
LEGEND

	STRAW & DRY SEED
	SILT FENCE
	FIBER ROLL

FILL/GRADE DRAINAGE DITCH AS NECESSARY TO PRODUCE REQUIRED LANE WIDTH DURING CONSTRUCTION. RESTORE SHOULDER/DITCH AFTER CONSTRUCTION.



BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: BAIR ROAD	DESIGN SECTION	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS STORM DAMAGE REPAIR TO BAIR ROAD PM 3.00 SECTIONS	SHEET 15 OF 22	
	ROAD NO.: 6L300	MILE POST: 3.00			ENGINEERING DIVISION
	PROJECT NO.: FEMA-4308 DR CA PW 1305	DESIGNED BY: RMD			DRAWN BY: RMD
	CONTRACT NO.: 217542	REVIEWED BY: JAB			APPROVED BY: TRS
	DRAWING FILE NAME: BAIR RD 3.00				
	PLOT DATE: 02/13/2020				

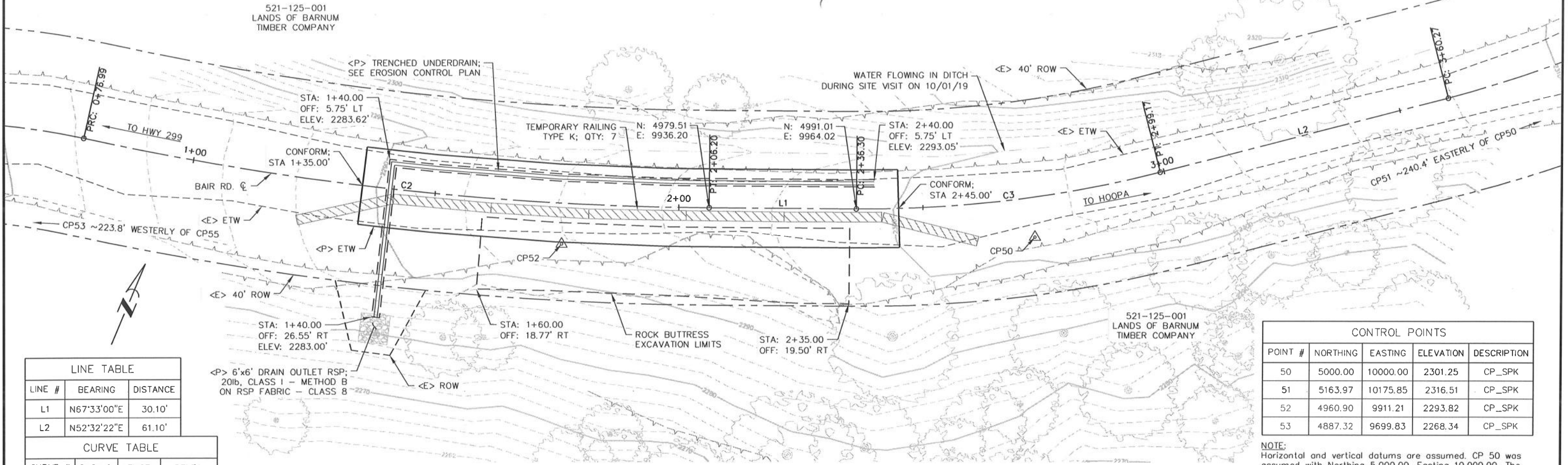


SECTION VIEWS
 Scale: 1"=10'



BAR IS ONE INCH ON ORIGINAL DRAWING	ROAD NAME: BAIR ROAD	DESIGN SECTION: ENGINEERING DIVISION
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NO.: 6L300	MILE POST: 4.10
	PROJECT NO.: FEMA-4308-DR-CA PW 1305	DESIGNED BY: RMD
	CONTRACT NO.: 217529	DRAWN BY: RMD
	DRAWING FILE NAME: BAIR RD 4.10	REVIEWED BY: JAB
	PLOT DATE: 02/13/2020	APPROVED BY: TRS

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 16 OF 22
STORM DAMAGE REPAIR TO BAIR ROAD PM 4.10	
PLAN AND PROFILE	



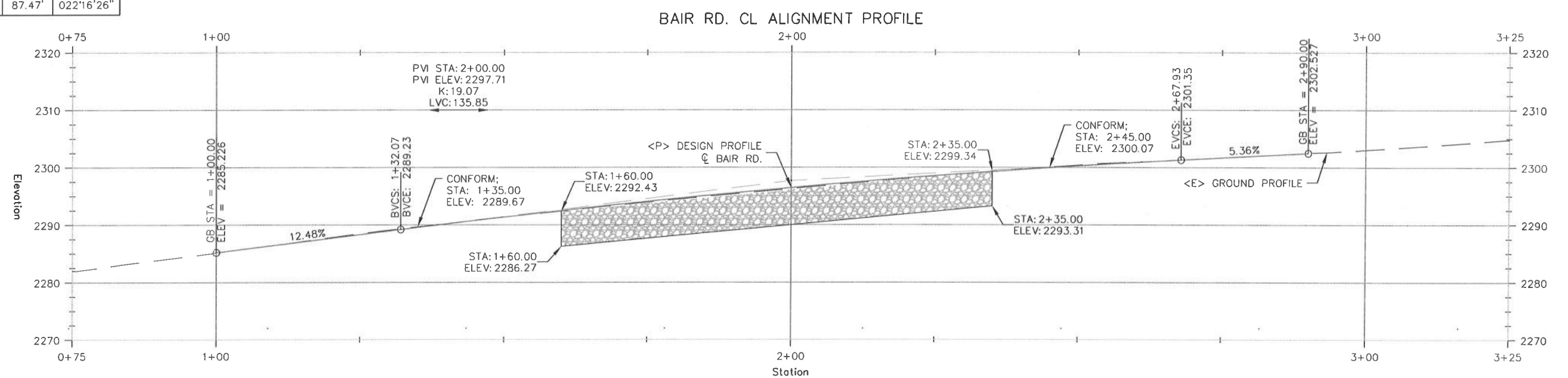
LINE #	BEARING	DISTANCE
L1	N67°33'00"E	30.10'
L2	N52°32'22"E	61.10'

CURVE #	RADIUS	LENGTH	DELTA
C1	160.00'	76.99'	027°34'18"
C2	620.00'	129.20'	011°56'24"
C3	240.00'	62.88'	015°00'38"
C4	225.00'	87.47'	022°16'26"

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
50	5000.00	10000.00	2301.25	CP_SPK
51	5163.97	10175.85	2316.51	CP_SPK
52	4960.90	9911.21	2293.82	CP_SPK
53	4887.32	9699.83	2268.34	CP_SPK

NOTE:
Horizontal and vertical datums are assumed. CP 50 was assumed with Northing 5,000.00, Easting 10,000.00. The elevation of CP 50 was determined by handheld GPS methods as Elevation 2301.25 feet. This is an approximation only and not tied to any datum. A compass bearing was taken from CP 50 to CP 51 of N47°E to establish the Basis of Bearings.

PLAN VIEW
Scale: 1"=10'

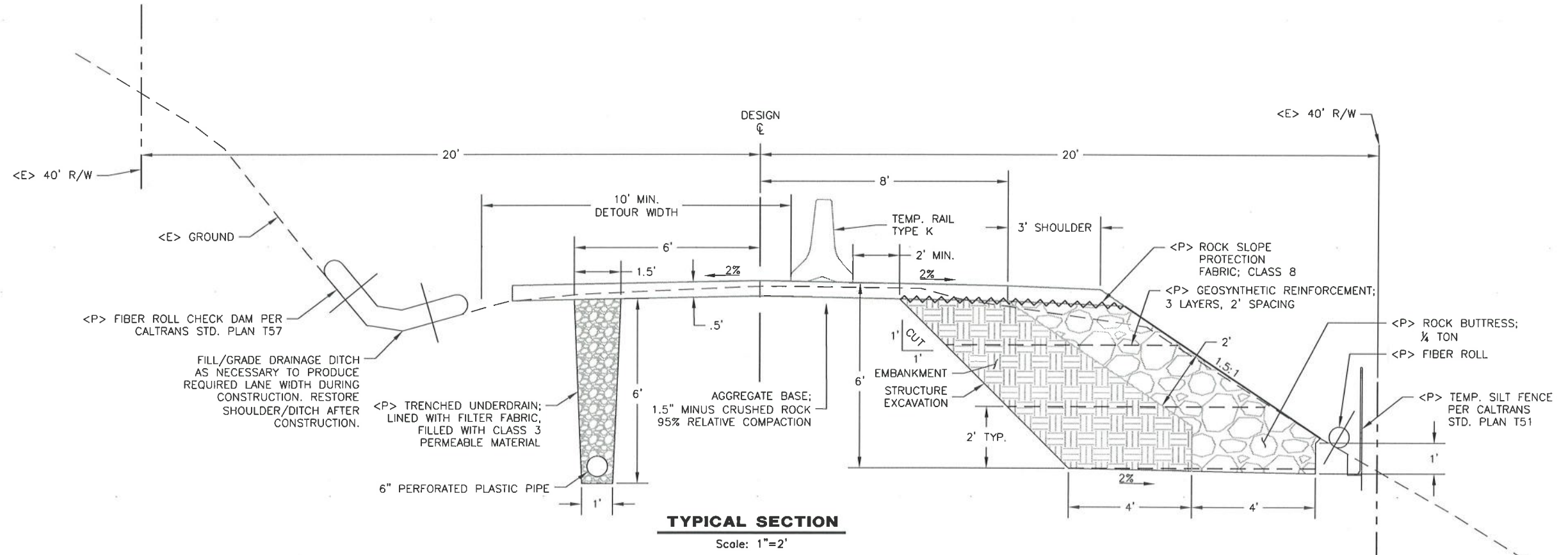


PROFILE VIEW
HORIZ.: 1"=10'
VERT.: 1"=10'

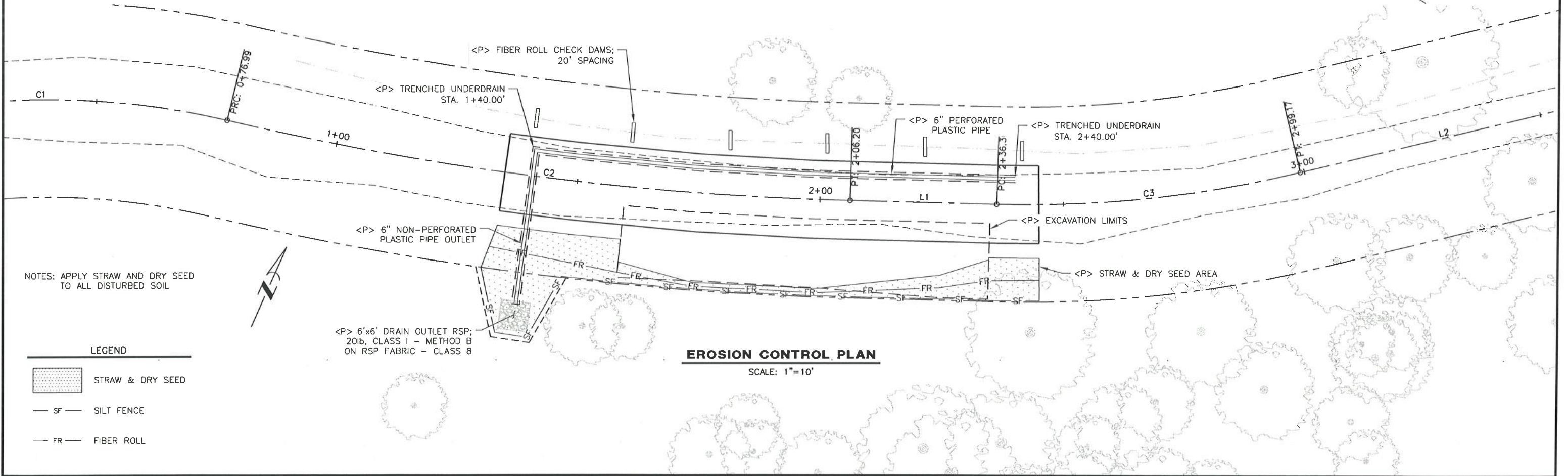


ROAD NAME: BAIR ROAD	DESIGN SECTION: ENGINEERING DIVISION
ROAD NO: 6L300	MILE POST: 4.10
PROJECT NO.: FEMA 4308 DR CA PW 1305	DESIGNED BY: RMD
CONTRACT NO.: 217529	DRAWN BY: RMD
DRAWING FILE NAME: BAIR RD 4.10	REVIEWED BY: JAB
PLOT DATE: 02/13/2020	APPROVED BY: TRS

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 17
STORM DAMAGE REPAIR TO BAIR ROAD PM 4.10	OF
TYPICAL SECTION & EROSION CONTROL PLAN	22



TYPICAL SECTION
Scale: 1"=2'



EROSION CONTROL PLAN
SCALE: 1"=10'

NOTES: APPLY STRAW AND DRY SEED TO ALL DISTURBED SOIL

- LEGEND**
- STRAW & DRY SEED
 - SILT FENCE
 - FIBER ROLL



BAR IS ONE INCH ON ORIGINAL DRAWING

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

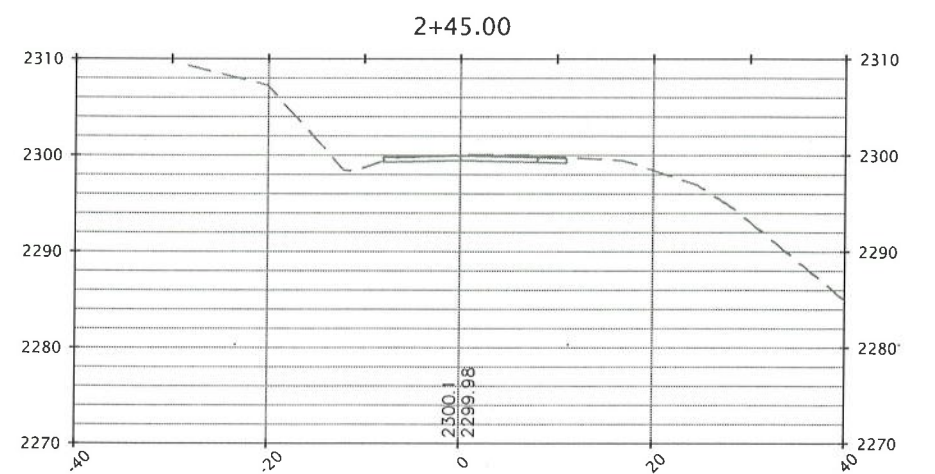
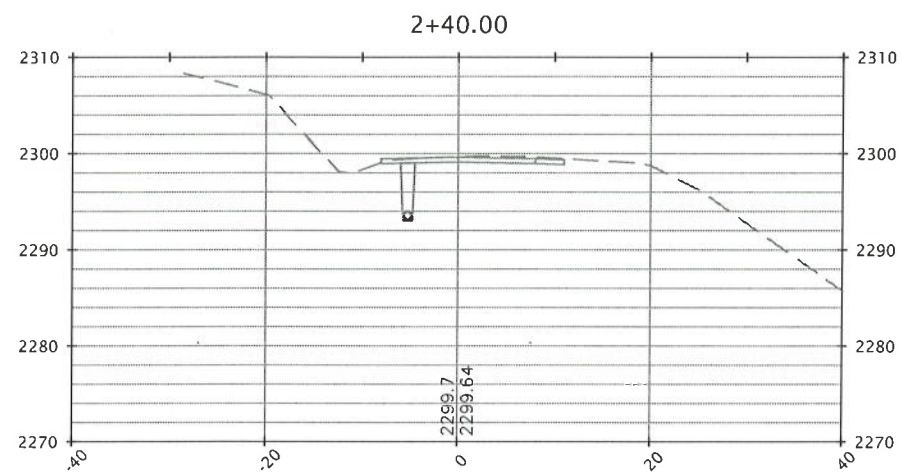
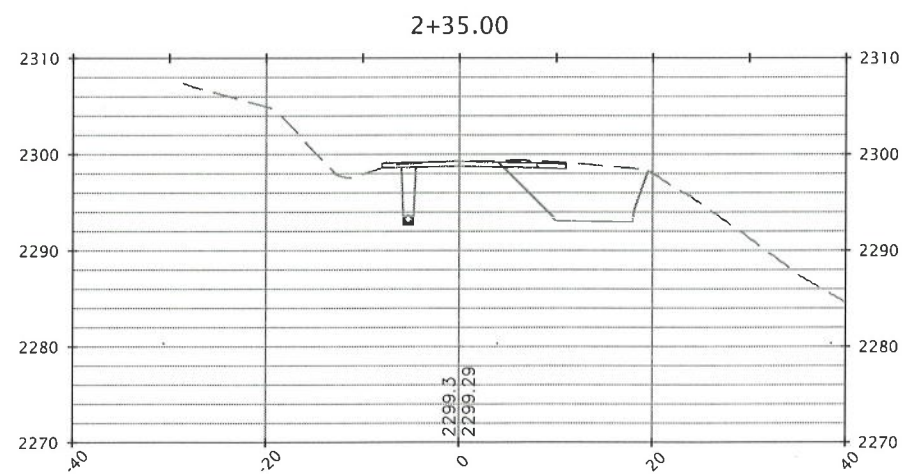
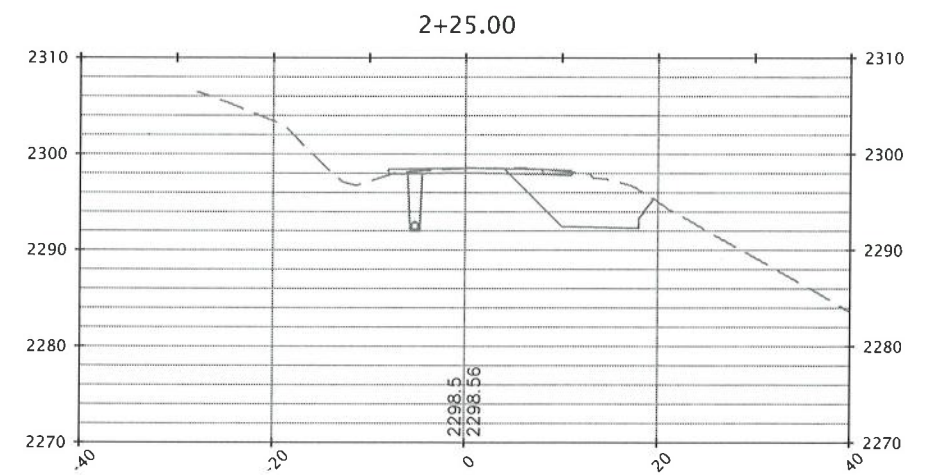
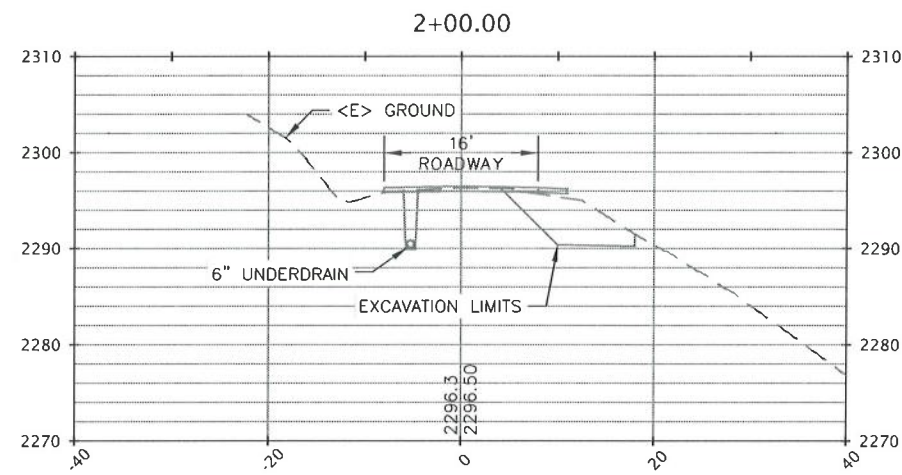
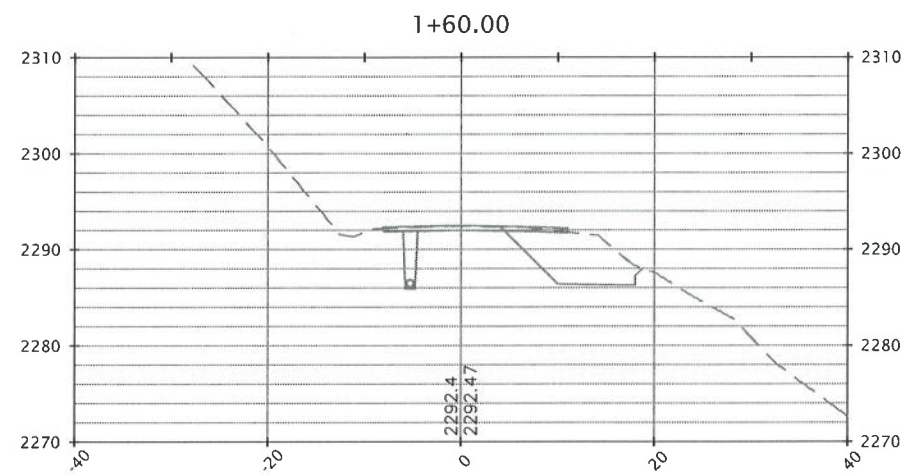
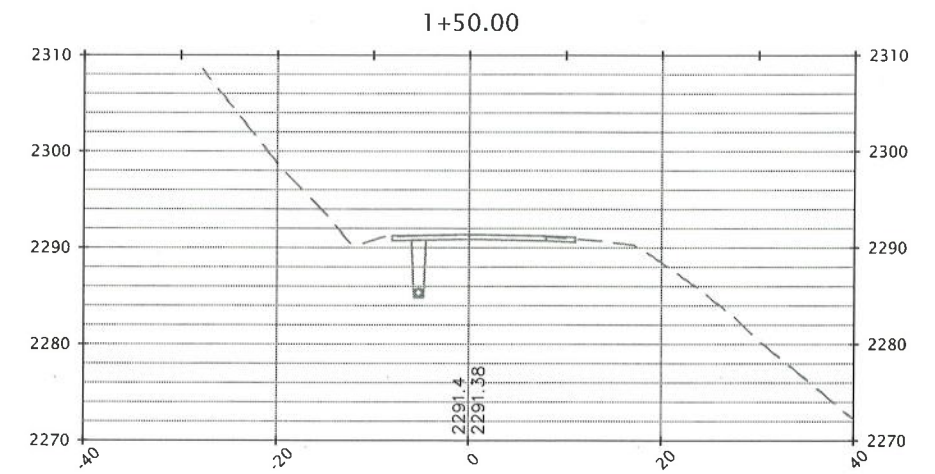
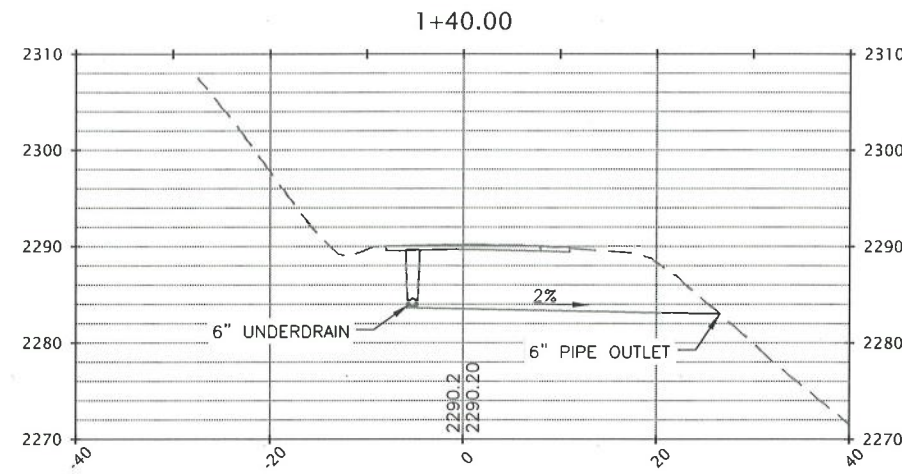
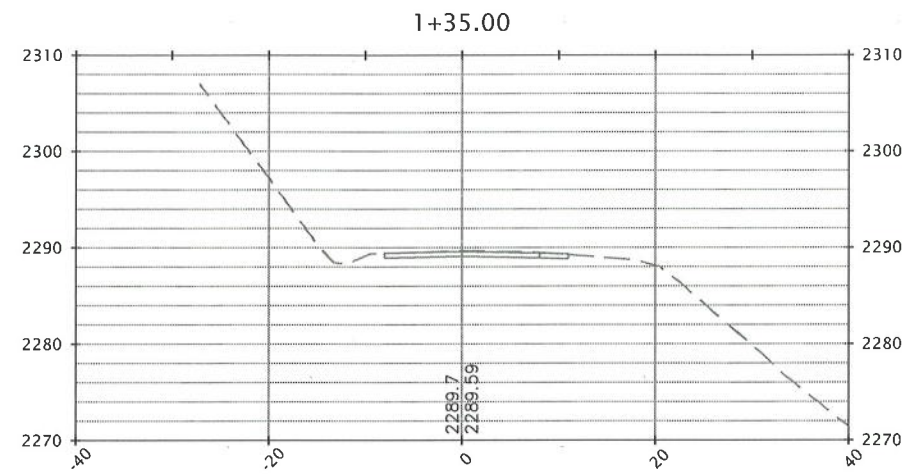
ROAD NAME: BAIR ROAD
ROAD NO.: 6L300 MILE POST: 4.10
PROJECT NO.: FEMA-4308 DR. CA PW 1305
CONTRACT NO.: 217529
DRAWING FILE NAME: BAIR RD 4.10
PLOT DATE: 02/13/2020

DESIGN SECTION
ENGINEERING DIVISION
DESIGNED BY: RMD
DRAWN BY: RMD
REVIEWED BY: JAB
APPROVED BY: TRS

COUNTY OF HUMBOLDT
DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR TO BAIR ROAD PM 4.10

SECTIONS

SHEET
18
OF
22

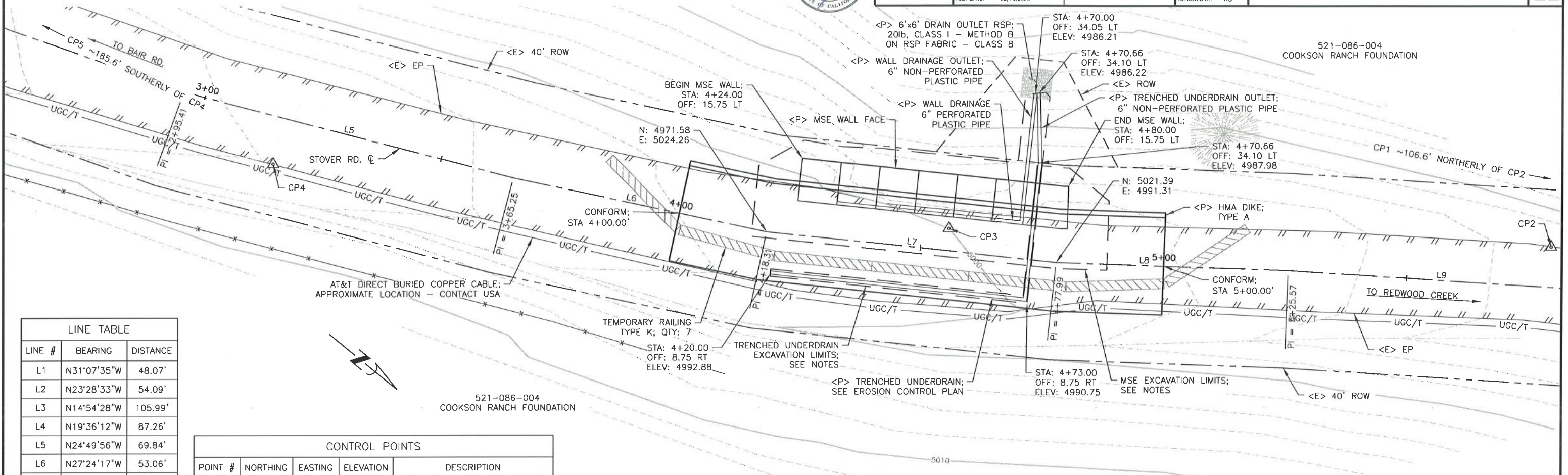


SECTION VIEWS
Scale: 1"=10'



BAR IS ONE INCH ON ORIGINAL DRAWING	ROAD NAME: STOVER ROAD	DESIGN SECTION: ENGINEERING DIVISION
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NO.: 6M100	DESIGNED BY: RMD
	PROJECT NO.: FEMA-4308 DR. CA PW 1305	DRAWN BY: RMD
	CONTRACT NO.: 217530	REVIEWED BY: JAB
	DRAWING FILE NAME: STOVER RD 5.47	APPROVED BY: TRS
	PLOT DATE: 02/13/2020	

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 19 OF 22
STORM DAMAGE REPAIR TO STOVER ROAD PM 5.47	
PLAN AND PROFILE	



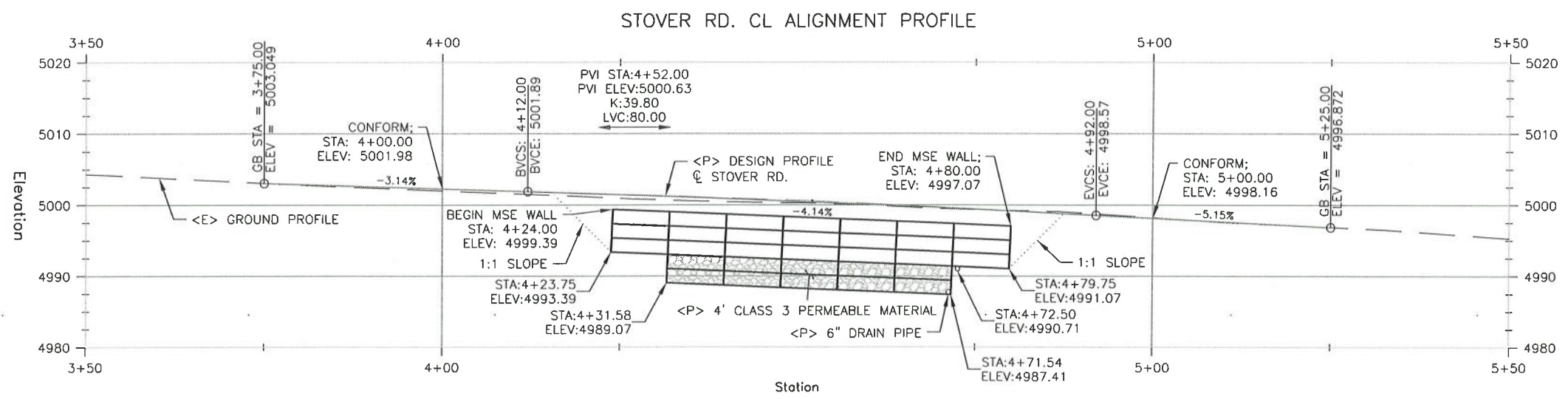
LINE #	BEARING	DISTANCE
L1	N31°07'35"W	48.07'
L2	N23°28'33"W	54.09'
L3	N14°54'28"W	105.99'
L4	N19°36'12"W	87.26'
L5	N24°49'56"W	69.84'
L6	N27°24'17"W	53.06'
L7	N33°25'32"W	59.68'
L8	N37°34'08"W	47.58'
L9	N35°53'29"W	63.05'
L10	N30°12'01"W	49.06'
L11	N26°43'16"W	39.67'

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	5191.01	4872.62	4987.35	SETMAGNAIL&HUMCOCONTROL.TAG
2	5097.68	4924.21	4993.25	SETMAGNAIL&HUMCOCONTROL.TAG
3	5000.00	5000.00	5000.00	SETMAGNAIL&HUMCOCONTROL.TAG
4	4884.71	5077.76	5005.93	SETGINSPIKE&HUMCOCONTROL.TAG
5	4703.47	5117.80	5010.87	SETGINSPIKE&HUMCOCONTROL.TAG

PLAN VIEW
Scale: 1"=10'

NOTE:

- The basis of bearings shown hereon are based on holding a compass bearing of S34°E between point CP3 & CP4.
- The basis of elevations shown hereon is based upon an assumed elevation of 5000.00 feet at point CP3.

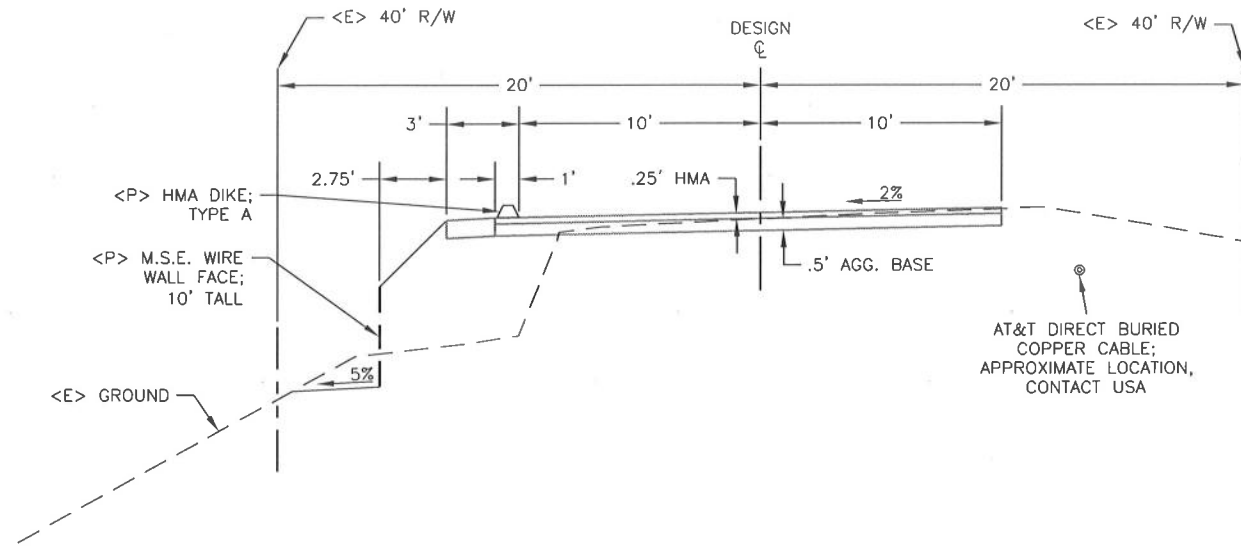


PROFILE VIEW
HORIZ.: 1"=10'
VERT.: 1"=10'

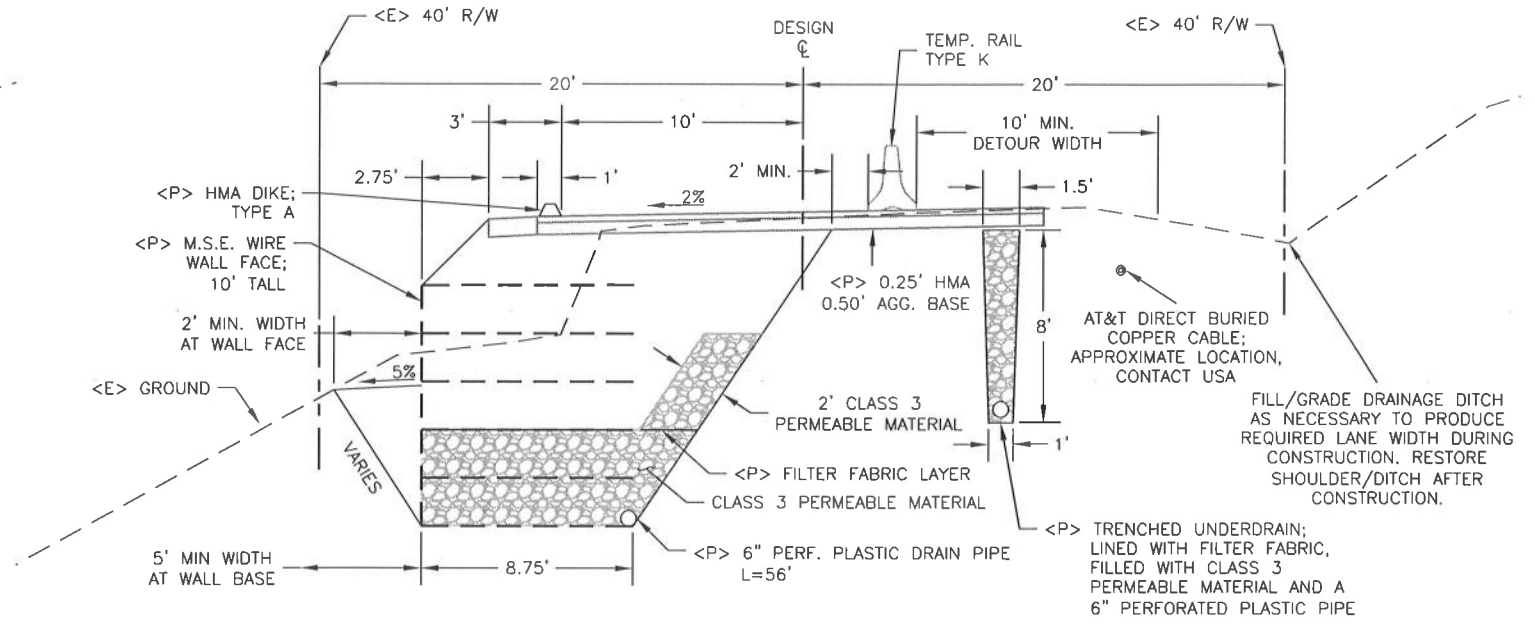
- NOTES**
- UNDERGROUND UTILITIES EXIST IN PROJECT VICINITY. CONTRACTOR TO CONTACT USA PRIOR TO ANY AND ALL EXCAVATION.
 - WALL DEPTH MAY VARY DEPENDING ON THE TYPE AND COMPETENCY OF MATERIALS ENCOUNTERED DURING STRUCTURE EXCAVATION.
 - APPLY STRAW AND DRY SEED TO ALL DISTURBED SOIL.



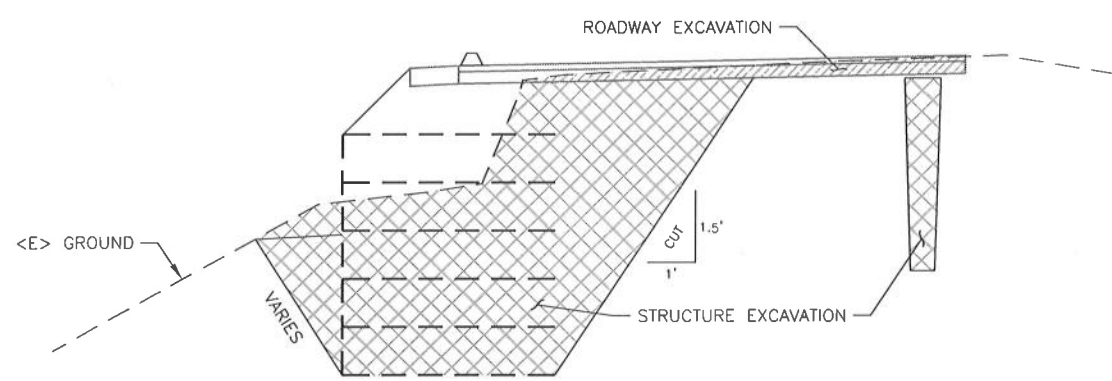
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: STOVER ROAD	DESIGN SECTION	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS STORM DAMAGE REPAIR TO STOVER ROAD PM 5.47 PLAN AND PROFILE	SHEET 20 OF 22	
	ROAD NO.: 6M100	MILE POST: 5.47			ENGINEERING DIVISION
	PROJECT NO.: FEMA-4308-DR-CA PW 1305	DESIGNED BY: RMD			DRAWN BY: RMD
	CONTRACT NO.: 217530	REVIEWED BY: JAB			APPROVED BY: TRS
	DRAWING FILE NAME: STOVER RD 5.47				
	PLOT DATE: 02/13/2020				



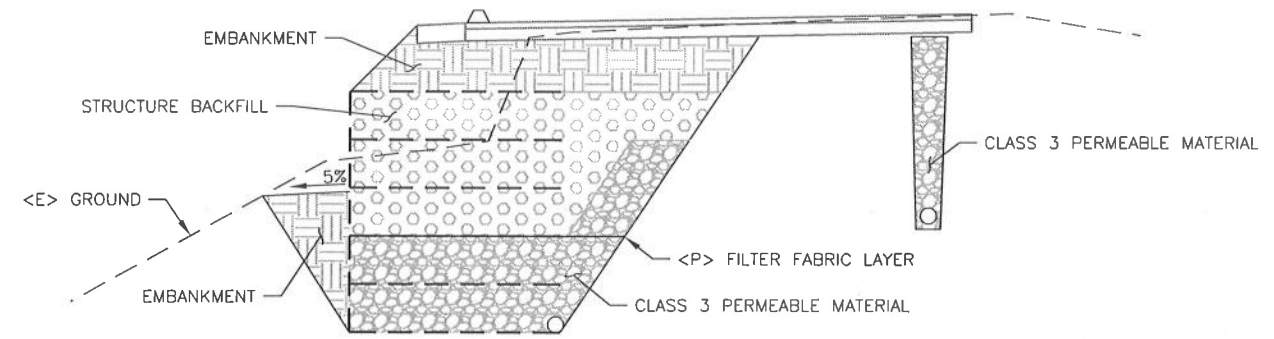
TYPICAL ROAD SECTION
SCALE: 1"=4'



TYPICAL SECTION
SCALE: 1"=4'



TYP. EXCAVATION SECTION
SCALE: 1"=4'



TYP. BACKFILL SECTION
SCALE: 1"=4'

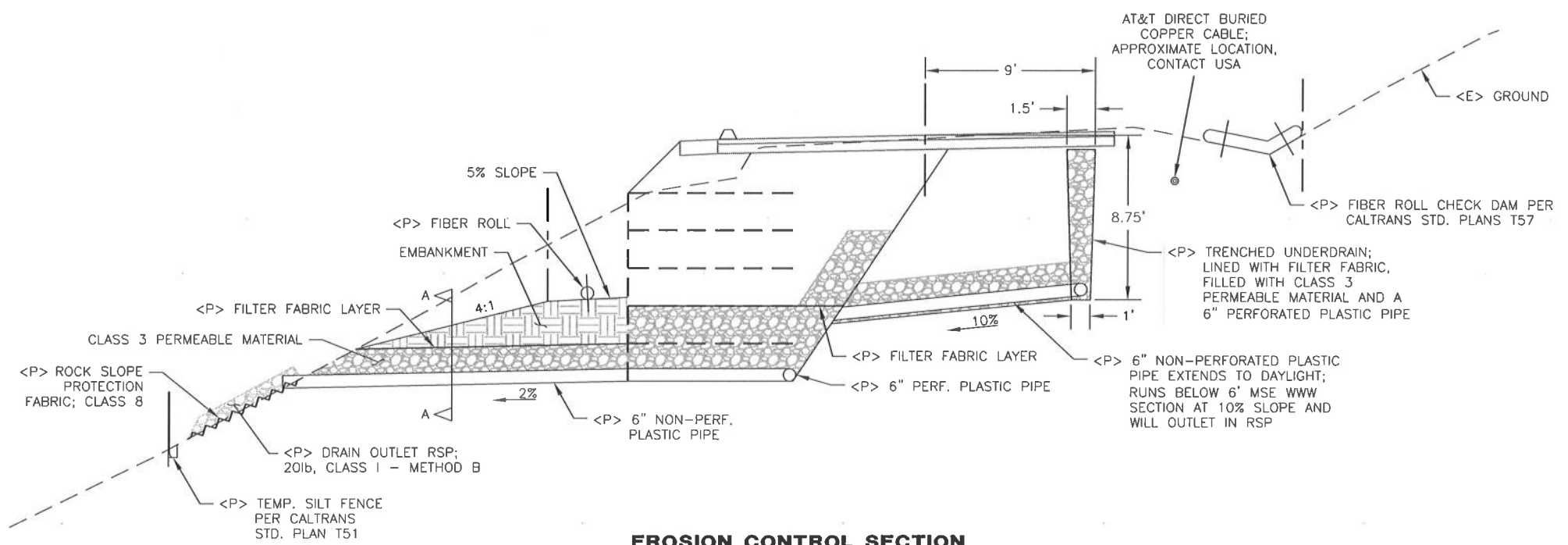
NOTES

1. UNDERGROUND UTILITIES EXIST IN PROJECT VICINITY. CONTRACTOR TO CONTACT USA PRIOR TO ANY AND ALL EXCAVATION.
2. WALL DEPTH MAY VARY DEPENDING ON THE TYPE AND COMPETENCY OF MATERIALS ENCOUNTERED DURING STRUCTURE EXCAVATION.
3. APPLY STRAW AND DRY SEED TO ALL DISTURBED SOIL.

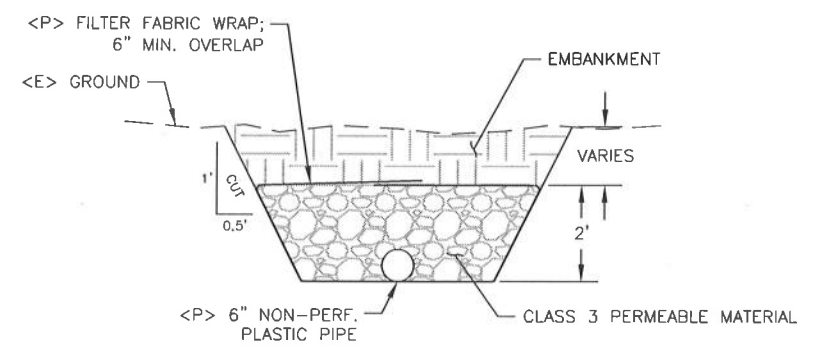


BAR IS ONE INCH ON ORIGINAL DRAWING	ROAD NAME: STOVER ROAD	DESIGN SECTION: ENGINEERING DIVISION
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NO: 6M100 MILE POST: 5.47	DESIGNED BY: RMD
	PROJECT NO.: FEMA-4308-DR-CA PW 1305	DRAWN BY: RMD
	CONTRACT NO.: 217530	REVIEWED BY: JAB
	DRAWING FILE NAME: STOVER RD 5.47	APPROVED BY: TRS
	PLOT DATE: 02/13/2020	

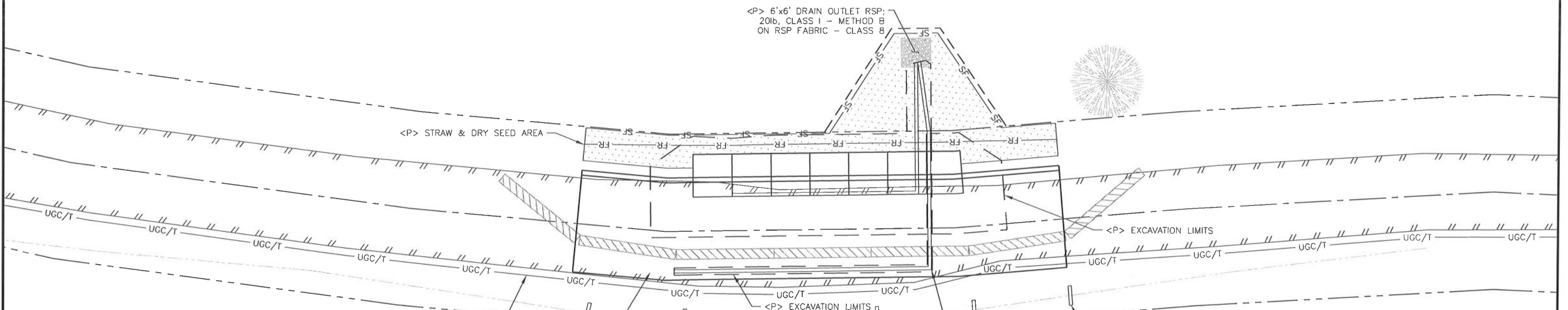
COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 21
STORM DAMAGE REPAIR TO STOVER ROAD PM 5.47	OF 22
EROSION CONTROL	



EROSION CONTROL SECTION
Scale: 1"=4'



OUTLET PIPE SECTION A-A
Scale: 1"=2'



EROSION CONTROL PLAN
SCALE: 1"=10'

LEGEND

	STRAW & DRY SEED
	SILT FENCE
	FIBER ROLL
	UNDERGROUND CABLE/TELE



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

ROAD NAME:	STOVER ROAD
ROAD NO.:	6M100
MILE POST:	5.47
PROJECT NO.:	FEMA-4308 DR. CA PW 1305
CONTRACT NO.:	217530
DRAWING FILE NAME:	STOVER RD 5.47
PLOT DATE:	02/13/2020

DESIGN SECTION
ENGINEERING DIVISION

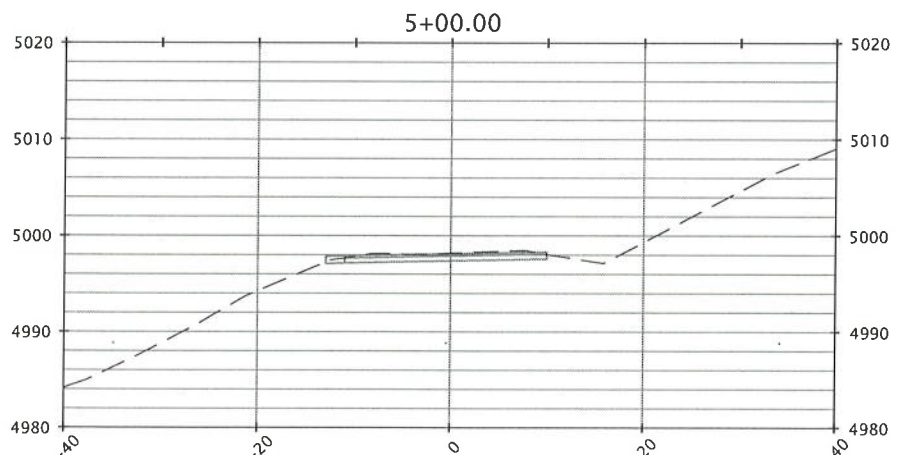
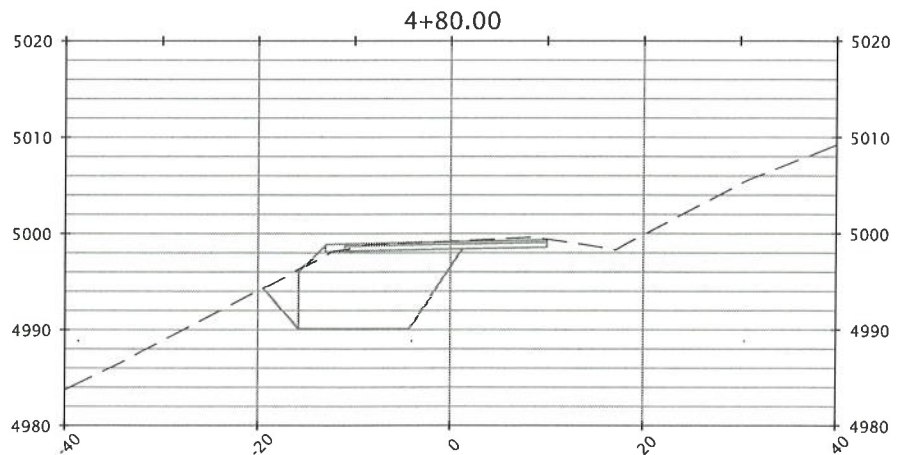
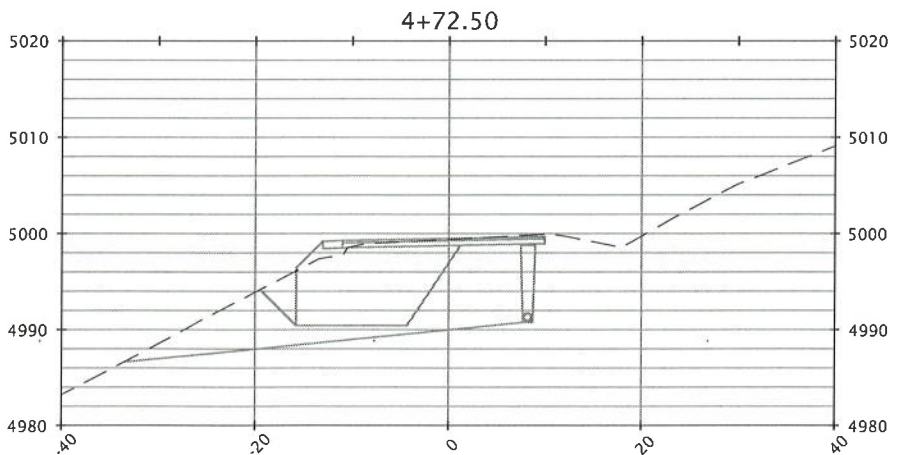
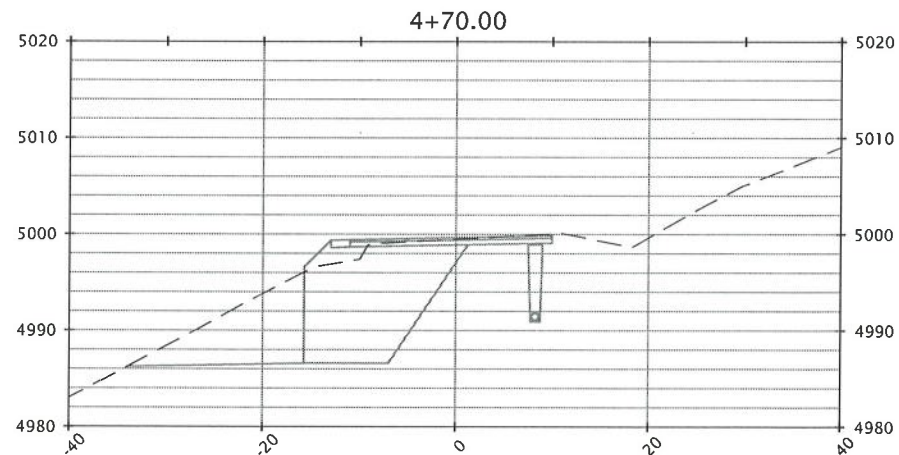
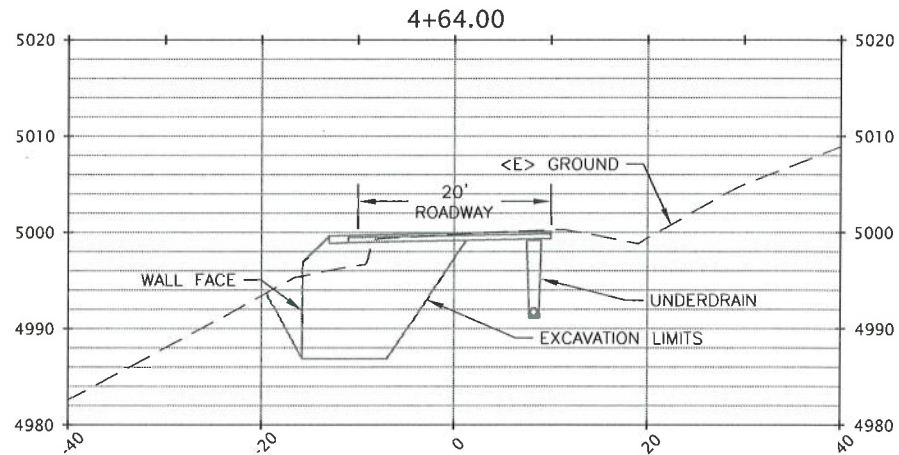
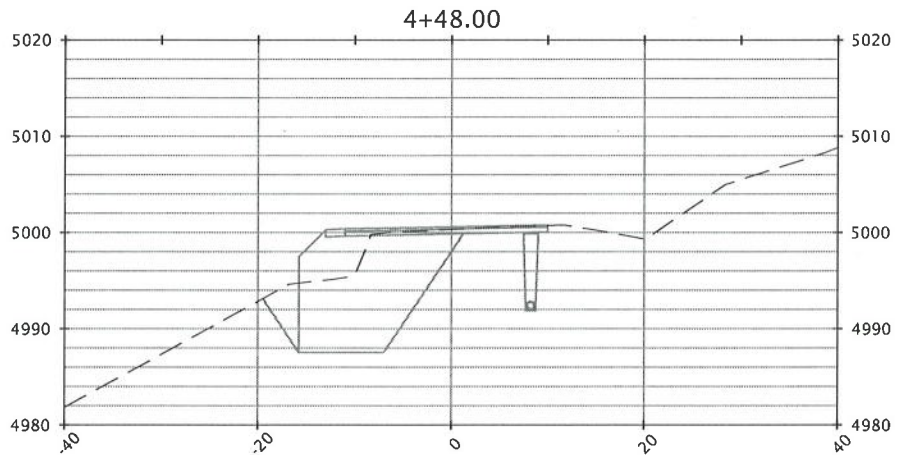
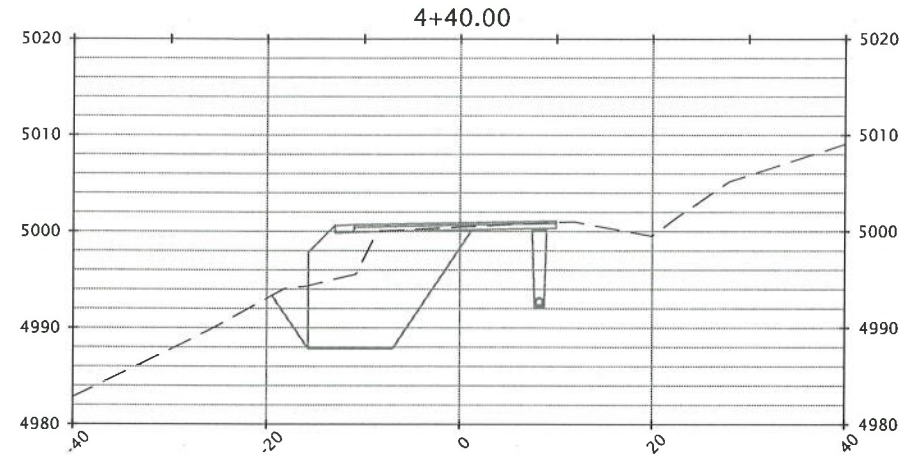
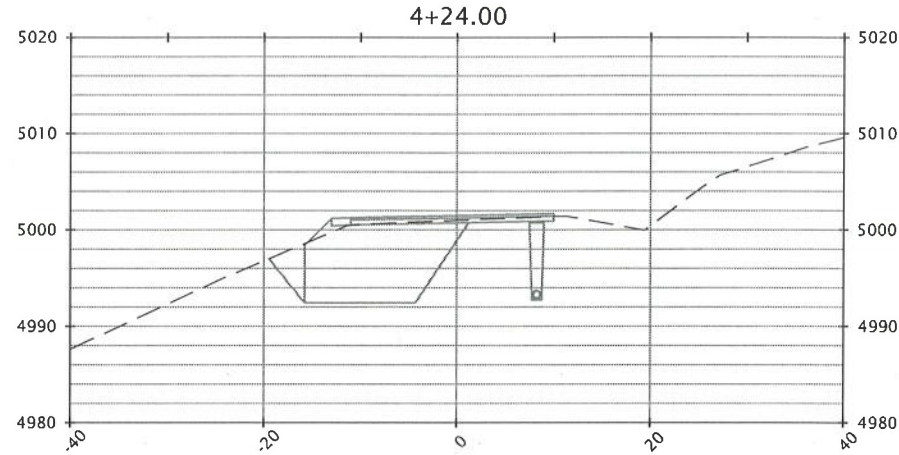
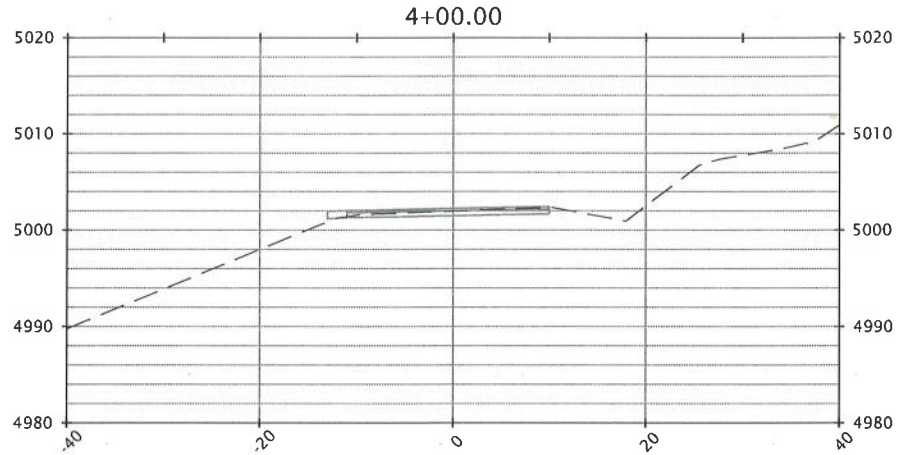
DESIGNED BY:	RMD
DRAWN BY:	RMD
REVIEWED BY:	JAB
APPROVED BY:	TRS

COUNTY OF HUMBOLDT
DEPARTMENT OF PUBLIC WORKS

STORM DAMAGE REPAIR TO STOVER ROAD PM 5.47

SECTIONS

SHEET
22
OF
22



SECTION VIEWS
Scale: 1"=10'