

FUNDING SOURCE

THIS PROJECT IS FUNDED BY THE US DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION EMERGENCY RELIEF PROGRAM



ABBREVIATIONS
(TO SUPPLEMENT CALTRANS STANDARD PLANS A3A, A3B & A3C)

- APN ASSESSORS PARCEL NUMBER
- CL CENTERLINE
- CT CALTRANS
- (E) EXISTING
- EL ELEVATION
- HDD HORIZONTAL DIRECTIONAL DRILLING
- K K-VALUE
- PVI POINT OF VERTICAL CURVATURE
- S SLOPE
- TEL TELEPHONE

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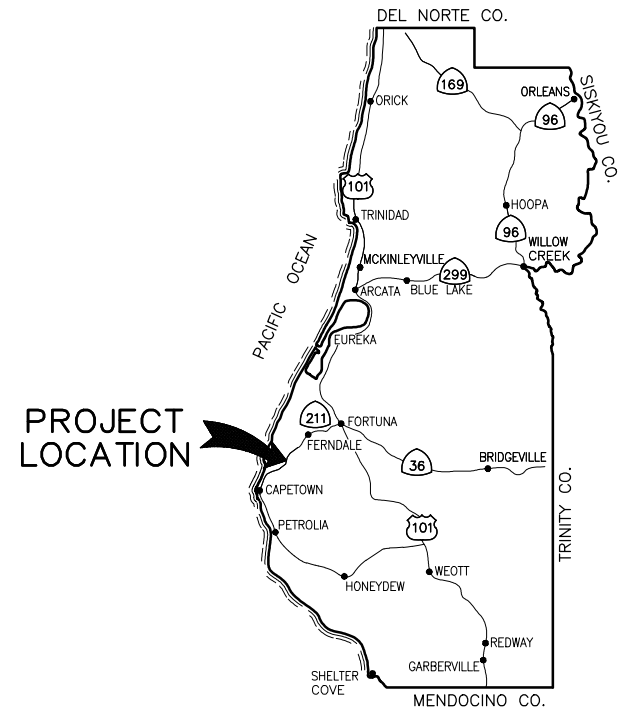


ROAD NAME: MATTOLE ROAD	DESIGN SECTION: ENGINEERING
ROAD NO: F3C010	DESIGNED BY: C.PROVO
MILE POST: 36.06 & 36.16	DRAWN BY: C.PROVO
PROJECT NO.: ER-32L0(114) & ER-32L0(325)	REVIEWED BY: J.WOLF
CONTRACT NO.: 217207 & 217433	APPROVED BY: J.WOLF
PLOT DATE: 03/05/2021	

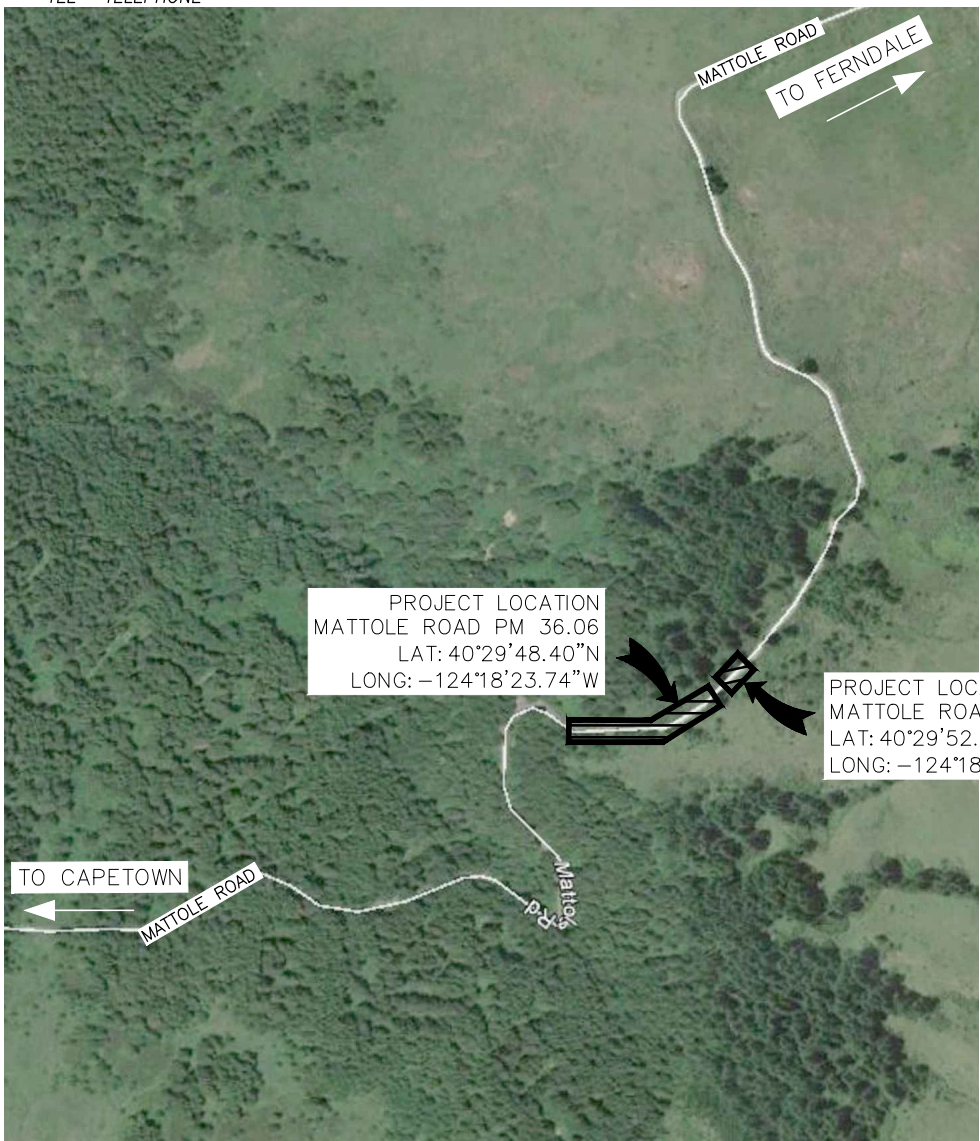
COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 1 OF 22
STORM DAMAGE REPAIR MATTOLE ROAD PM 36.06 & 36.16	
COVER SHEET, SHEET INDEX, AND MAPS	

**COUNTY OF HUMBOLDT
DEPARTMENT OF PUBLIC WORKS
PROJECT PLANS FOR CONSTRUCTION OF
STORM DAMAGE REPAIRS
MATTOLE ROAD (F3C010) AT P.M. 36.06 & P.M. 36.16
PROJECT NO. ER-32L0(114) & ER-32L0(325)
CONTRACT NO. 217207 & 217433**

TO BE SUPPLEMENTED BY STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION 2018 STANDARD PLANS, 2018 STANDARD SPECIFICATIONS, AND LATEST REVISED STANDARD PLANS AND SPECIFICATIONS.



LOCATION MAP
NOT TO SCALE



PROJECT LOCATION
MATTOLE ROAD PM 36.06
LAT: 40°29'48.40"N
LONG: -124°18'23.74"W

PROJECT LOCATION
MATTOLE ROAD PM 36.16
LAT: 40°29'52.57"N
LONG: -124°18'18.34"W

VICINITY MAP
NOT TO SCALE



NOTES

1. THE CONTRACTOR SHALL HAVE A CLASS "A" LICENSE FOR THIS PROJECT.
2. STANDARD PLAN LIST APPLICABLE TO THIS CONTRACT INCLUDED IN THE SPECIAL PROVISIONS.
3. MATTOLE ROAD PM 36.06 GEOTECHNICAL MEMORANDUM: CRAWFORD AND ASSOCIATES, NOVEMBER 25, 2020.
4. MATTOLE ROAD PM 36.16 GEOTECHNICAL MEMORANDUM: CRAWFORD AND ASSOCIATES, JANUARY 20, 2021.

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RECOMMENDED

Joshua A. Wolf
JOSH WOLF
RCE 70358
CIVIL ENGINEER
GHD INC.
3/5/2021
DATE



APPROVED

Tony R. Seghetti
TONY R. SEGHETTI
RCE 63714
DEPUTY DIRECTOR OF ENGINEERING
COUNTY OF HUMBOLDT
3-5-2021
DATE





GHD Inc.
718 Third Street
Eureka California 95501 USA
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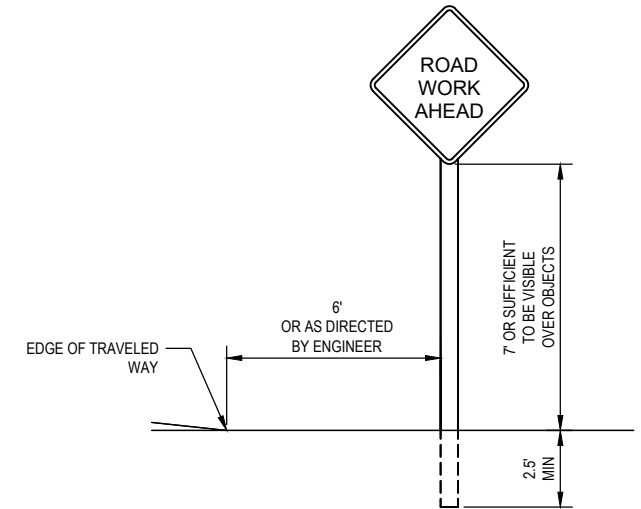
COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR MATTOLE ROAD PM 36.06 & 36.16
TRAFFIC CONTROL, STAGING/STOCKPILE LOCATIONS, AND QUANTITIES

QUANTITIES

ITEM CODE	ITEM DESCRIPTION	UNIT	PM 36.06 QUANTITY	PM 36.16 QUANTITY	TOTAL QUANTITY
120090	Construction Area Signs	LS	0.6	0.4	1
120100	Traffic Control System	LS	0.6	0.4	1
120202	Portable Signal System	LS	0.6	0.4	1
129000	Temporary Railing (Type K)	LF	1200	280	1480
130100	Job Site Management	LS	0.6	0.4	1
130300	Storm Water Pollution Prevention Plan Management	LS	0.6	0.4	1
130310	Rain Event Action Plan	EA	3	3	6
130320	Storm Water Sampling and Analysis Day	EA	2	2	4
130330	Storm Water Annual Report	EA	0.6	0.4	1
130610	Temporary Check Dam	LF	18	80	98
130620	Temporary Drainage Inlet Protection	EA	1		1
130680	Temporary Silt Fence	LF	827		827
170103	Clearing and Grubbing (LS)	LS	0.8	0.2	1
190101A	Roadway Excavation	CY	7213	3837	11050
190136A	Construct Detour	LS		1	1
198050A	Embankment	CY	4137	1126	5263
198250A	Geosynthetic Reinforcement (Uniaxial Geogrid)	SQYD	5900	1814	7714
198250B	Geosynthetic Reinforcement (Biaxial Geogrid)	SQYD	414	269	683
210212	Dry Seed (SQFT)	SQFT	18120	5120	23240
210280	Rolled Erosion Control Product (Blanket)	SQFT	18120	3710	21830
210350	Fiber Rolls	LF	1499	444	1943
210420	Straw	SQFT		1410	1410
260203	Class 2 Aggregate Base (CY)	CY	789	123	912
390132	Hot Mix Asphalt (Type A)	TON	372	90	462
641107A	18" Plastic Pipe (Heat-Fused HDPE)	LF	44		44
680902A	6" Perforated Plastic Pipe	LF	670	155	825
680903A	6" Non-Perforated Plastic Pipe	LF	309	33	342
680965A	10" Non-Perforated Plastic Pipe (HDD)	LF	322		322
682022A	Class 1 Permeable Material	CY	1583	50	1633
692381	Concrete Anchor and Cable Assembly	EA	1		1
700638	36" Corrugated Steel Pipe Inlet (.079" Thick)	LF	15		15
710132	Remove Culvert (LF)	LF	37		37
723015	Rock Slope Protection (2T, Class IX, Method A)	CY		1112	1112
723020	Rock Slope Protection (1T, Class II, Method A)	CY		1112	1112
723080	Rock Slope Protection (60 lb, Class II, Method B) (CY)	CY	4	172	176
723095A	Rock Slope Protection (20 lb, Class I, Method B) (CY)	CY		116	116
729011	Rock Slope Protection Fabric (Class 8)	SQYD	16		16
729012	Rock Slope Protection Fabric (Class 10)	SQYD		793	793
800002	Fence (Type BW, Wood Post)	LF	351		351
803020	Remove Fence	LF	348		348
840505A	4" Thermoplastic Traffic Stripe	LF	850	200	1050
999990	Mobilization	LS	1	0	1

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN CODE	PANEL SIZE	SIGN MESSAGE	NUMBER & POST SIZE	NO. OF SIGNS
W20-1	36"x36"	ROAD WORK AHEAD	(1) 4"x4"	2
G20-2	36"x18"	END ROAD WORK	(1) 4"x4"	2
W20-4	36"x36"	ONE LANE ROAD AHEAD	(1) 4"x4"	2
W3-3	36"x36"	STOP LIGHT WARNING	(1) 4"x4"	2
W1-4	36"x36"	HORIZONTAL ALIGNMENT	(1) 4"x4"	1
R10-6	24"x36"	STOP HERE ON RED	(1) 4"x4"	2



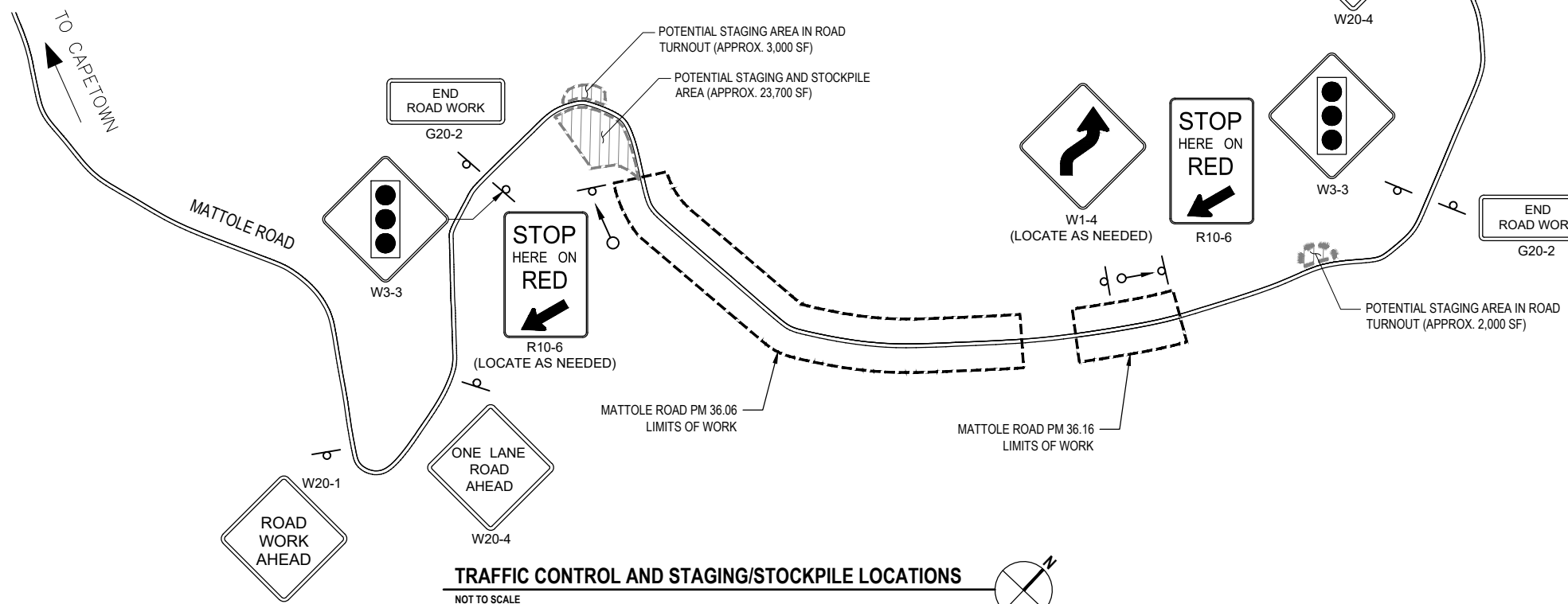
TYPICAL STATIONARY CONSTRUCTION AREA SIGNS

CONSTRUCTION SIGN NOTES:

- ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CAMUTCD) AND CALTRANS 2018 STANDARD PLANS.
- EXACT SIGN LOCATIONS AND POSITIONS TO BE APPROVED BY THE ENGINEER.
- ALL WARNING SIGNS SHALL HAVE A BLACK LEGEND AND BORDER ON ORANGE BACKGROUND.
- ALTERNATIVE POST CONFIGURATION TO BE APPROVED BY ENGINEER.
- REFER TO FIGURE 6H-12 FOR LANE CLOSURE ON A TWO-LANE ROAD USING TRAFFIC CONTROL SIGNALS (TA-12).
- MAINTAIN ONE TRAVEL LANE AT ALL TIMES.
- MAINTAIN ALL SIGNS THROUGHOUT DURATION OF CONSTRUCTION.
- PROVIDE FLAGGERS AS REQUIRED TO ACCOMMODATE CONSTRUCTION.

STOCKPILE NOTES:

- STOCKPILE SHALL HAVE FIBER ROLL, HAY BALES, SILT FENCE, OR OTHER APPROVED LINEAR BARRIER AROUND STOCKPILE.
- STOCKPILE SHALL BE COVERED WITH PLASTIC WHEN NOT IN USE AND BE WEIGHTED DOWN WITH SANDBAGS OR EQUIVALENT (AS PER STANDARD PLAN T53).
- IF STOCKPILE AREA IS IN A TURNOUT - THE TURNOUT SHALL BE REESTABLISHED TO PRE-CONSTRUCTION CONDITIONS.
- IF TEMPORARY CULVERTS ARE INSTALLED IN THE DITCH LINE - DITCH LINE SHALL BE RECONSTRUCTED AT END OF PROJECT.
- STOCKPILE LOCATIONS HAVE BEEN APPROVED BY PUBLIC WORKS AS DETAILED IN THE ENVIRONMENTAL REPORT.
- ALTERNATE STOCKPILE AND STAGING SITES SHALL BE PRE-APPROVED THROUGH PUBLIC WORKS WITH WRITTEN APPROVAL.



TRAFFIC CONTROL AND STAGING/STOCKPILE LOCATIONS

NOT TO SCALE



LEGEND

- SIGN
- TRAFFIC SIGNAL
- WORK AREA LIMITS
- POTENTIAL STAGING AREA LIMITS



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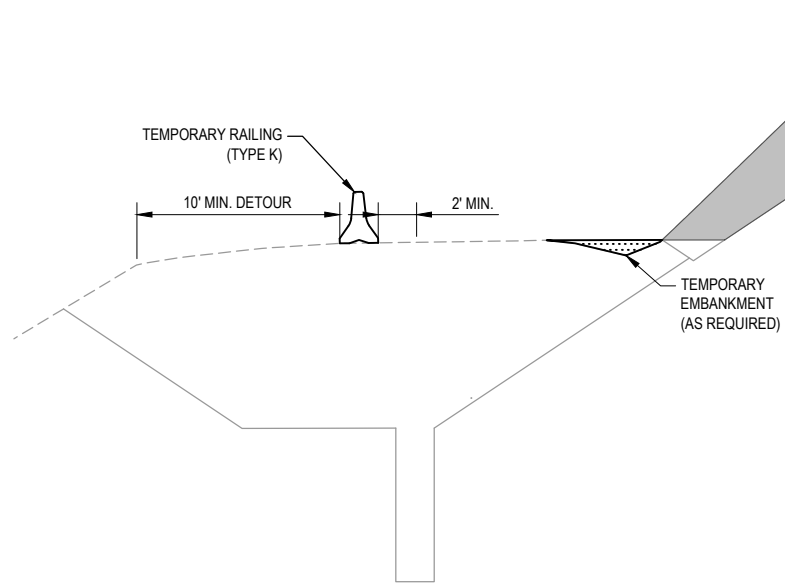


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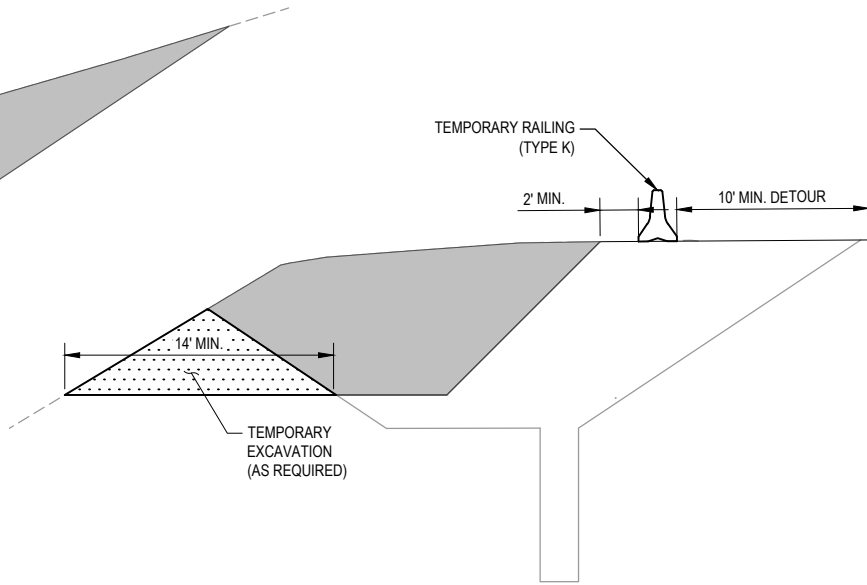
COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR MATTOLE ROAD PM 36.06 & 36.16
PM 36.06 TEMPORARY TRAFFIC CONTROL PHASING

SHEET 3 OF 22



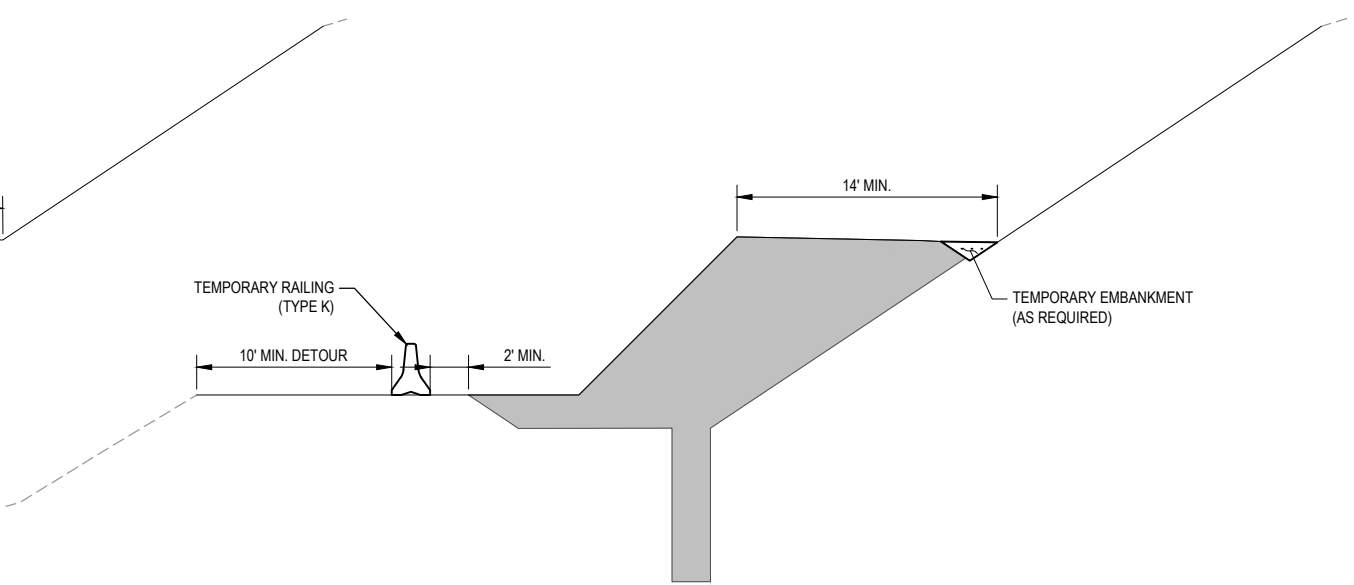
PHASE 1 - TRAFFIC CONTROL

NOT TO SCALE



PHASE 2 - TRAFFIC CONTROL

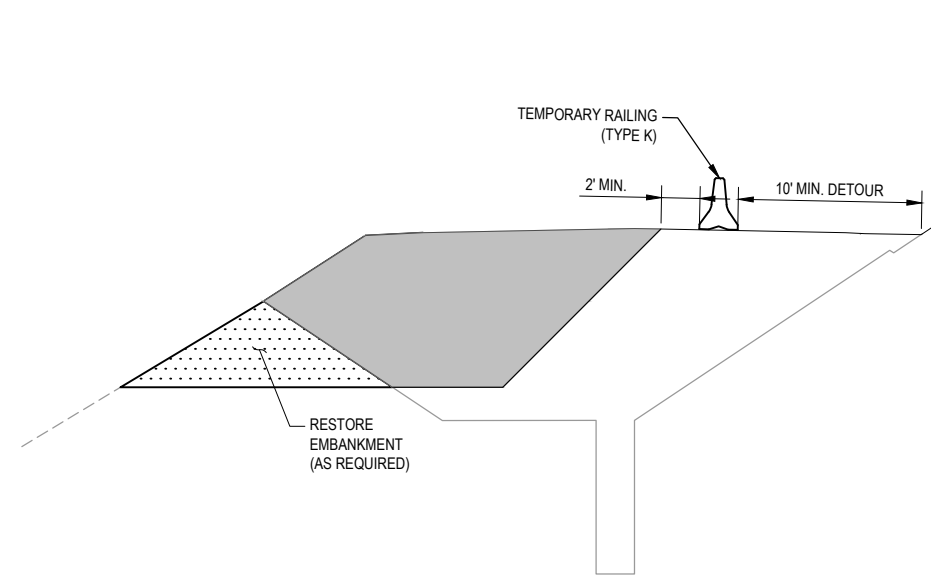
NOT TO SCALE



PHASE 3 - TRAFFIC CONTROL

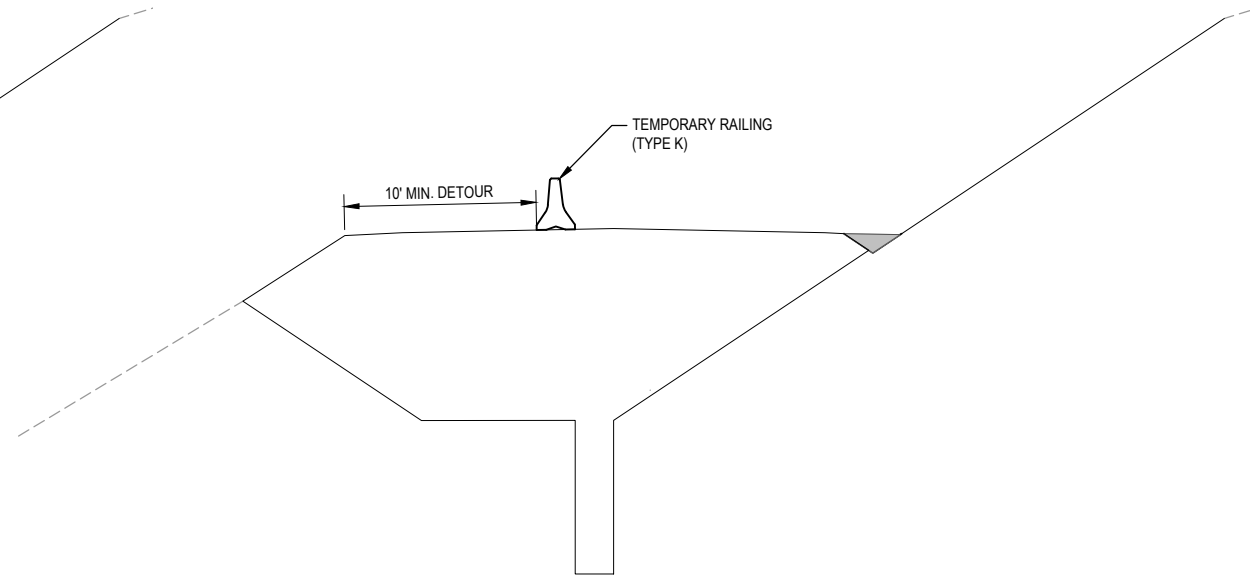
NOT TO SCALE

- NOTES:**
1. THIS SHEET IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY AND PRESENTS ONE POTENTIAL APPROACH TO TEMPORARY TRAFFIC CONTROL PHASING. THE CONTRACTOR MAY PROPOSE OTHER TRAFFIC PHASING SUBJECT TO COUNTY APPROVAL.
 2. ALL WORK AND TEMPORARY TRAFFIC ROUTES SHALL BE CONFINED TO THE COUNTY RW AND TCE'S OBTAINED BY THE COUNTY FOR THE PROJECT.
 3. CONTRACTOR SHALL PROVIDE AND MAINTAIN A MINIMUM OF ONE OPEN TRAFFIC LANE THROUGH OR AROUND THE WORK AREA AT ALL TIMES. TRAFFIC LANE SHALL BE AT LEAST 10 FEET WIDE, AND SHALL HAVE A SLOPE IN THE DIRECTION OF TRAVEL OF NO MORE THAN 15%. LANE SURFACE SHALL BE FIRM AND SMOOTH, AND FREE OF HOLES AND RUTS SO AS NOT TO IMPEDE TRAFFIC.



PHASE 4 - TRAFFIC CONTROL

NOT TO SCALE



PHASE 5 - TRAFFIC CONTROL

NOT TO SCALE

LEGEND

- WORK AREA
- TEMPORARY EXCAVATION OR EMBANKMENT



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COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR MATTOLE ROAD PM 36.06 & 36.16
SURVEY CONTROL PLAN

SURVEY CONTROL NOTES

1. THE PURPOSE OF THIS SURVEY IS TO DETERMINE TOPOGRAPHY FOR A STORM DAMAGE REPAIR SITE AT POST MILE 36.06 TO 36.10 OF MATTOLE ROAD. THIS SURVEY REFLECTS CONDITIONS AT THE TIME OF SURVEY; FIELD WORK WAS PERFORMED BETWEEN FEBRUARY 21 AND MARCH 8, 2019. ADDITIONAL WORK PERFORMED MARCH 6, 2020. CONTROL POINTS NEED TO BE VERIFIED BEFORE BEING RELIED UPON BY LOCATING THEM RELATIVE TO ONE ANOTHER FOR CONSISTENCY.
2. 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 30 MINUTES 26 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 0.99983928 TO OBTAIN GROUND DISTANCES. MAPPING ANGLE AND GRID SCALE FACTOR ARE TAKEN AT CONTROL POINT NUMBER 50, A 12 INCH SPIKE. ELEVATIONS ARE NAVD 88 DATUM BASED ON OPUS SOLUTION UTILIZING THE GEOID 12B MODEL: AN ELEVATION OF 1620.33 FEET WAS MEASURED AT THE AFOREMENTIONED CONTROL POINT 50.
3. CONTOURS AND SPOT ELEVATIONS WERE OBTAINED BY CONVENTIONAL SURVEY TECHNIQUES. ONLY TREES 12 INCH AND BIGGER WERE LOCATED; NUMEROUS OTHER SMALLER TREES EXIST WITHIN AREA SURVEYED AND ARE NOT SHOWN. TREE LOCATIONS ARE GENERALLY SHOWN AT BREAST HEIGHT AND ARE APPROXIMATE DUE TO THE FACT NOT ALL TREES ARE GROWING VERTICALLY.
4. THE RIGHT OF WAY SHOWN IS BASED ON THE PHYSICAL CENTERLINE OF MATTOLE ROAD. PER THE HUMBOLDT COUNTY PUBLIC WORKS DEPT. A FIFTY FOOT RIGHT OF WAY EXISTS BASED ON BOOK 1 OF THE ROAD REGISTER, PAGE 276.
5. SOME CONTROL POINTS SHOWN HEREON ARE SET IN AN AREA SUBJECT TO MOVEMENT. THERE ARE POINTS SET ON EITHER END OF SITE (POINTS 50 AND 58) THAT SHOULD BE USED TO CHECK OTHER CONTROL POINTS SHOWN TO CONFIRM NO MOVEMENT HAS OCCURRED. SEE NOTE 1 ABOVE.

GENERAL NOTES

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

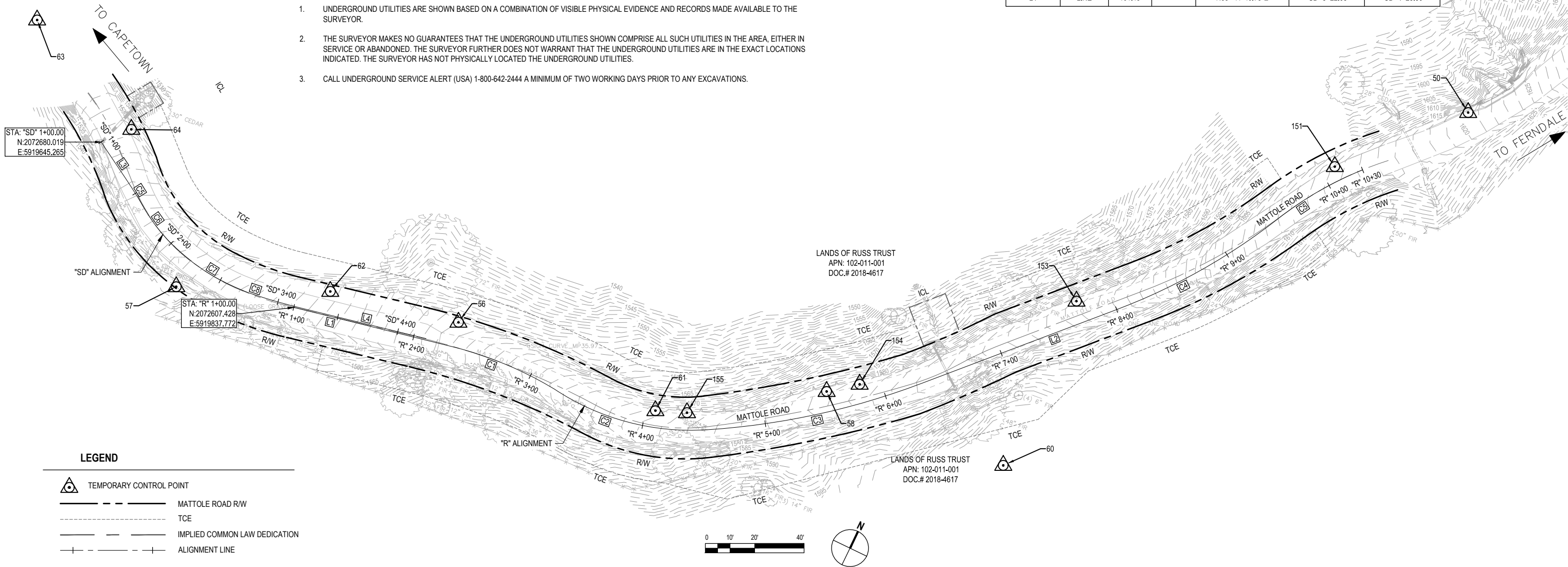
POINT TABLE				
POINT#	EASTINGS	NORTHINGS	ELEVATION	DESCRIPTION
50	5920677.84	2073081.27	1620.33	SPIKE
56	5919967.26	2072641.71	1558.86	SPIKE
57	5919742.54	2072590.60	1545.37	REBAR AND PLASTIC CAP "PWS CONTROL"
58	5920266.73	2072691.03	1580.55	SPIKE
60	5920421.73	2072683.70	1619.49	REBAR AND PLASTIC CAP "PWS CONTROL"
61	5920141.71	2072628.98	1572.50	SPIKE
62	5919861.14	2072629.68	1550.43	CP_SPK
63	5919562.69	2072755.20	1521.89	CP_SPK
64	5919664.72	2072697.98	1531.94	CP_SPK
151	5920591.27	2073003.13	1612.33	MAG NAIL
153	5920431.94	2072829.05	1591.27	SPIKE
154	5920289.90	2072705.85	1581.87	SPIKE
155	5920166.32	2072636.18	1574.03	SPIKE

MATTOLE ROAD PM 36.06 CONSTRUCTION CENTERLINE GEOMETRY - "R" ALIGNMENT						
Segment	Type	Length	Radius	Direction	Start Station	End Station
L1	LINE	131.82	-	N83° 54' 28.56"E	"R" 1+00.00	"R" 2+31.82
C1	CURVE	90.12	300.00		"R" 2+31.82	"R" 3+21.94
C2	CURVE	130.48	200.00		"R" 3+21.94	"R" 4+52.42
C3	CURVE	178.78	600.00		"R" 4+52.42	"R" 6+31.20
L2	LINE	168.69	-	N49° 15' 55.66"E	"R" 6+31.20	"R" 7+99.90
C4	CURVE	150.76	500.00		"R" 7+99.90	"R" 9+50.66
C5	CURVE	79.35	280.00		"R" 9+50.66	"R" 10+30.00

MATTOLE ROAD PM 36.06 STORM DRAIN CONSTRUCTION CENTERLINE GEOMETRY - "SD" ALIGNMENT						
Segment	Type	Length	Radius	Direction	Start Station	End Station
L3	LINE	34.04	-	S53° 54' 02.60"E	"SD" 1+00.00	"SD" 1+34.04
C5	CURVE	31.63	500.00		"SD" 1+34.04	"SD" 1+65.67
C6	CURVE	34.73	135.00		"SD" 1+65.67	"SD" 2+00.40
C7	CURVE	79.04	170.00		"SD" 2+00.40	"SD" 2+79.44
C8	CURVE	42.61	500.00		"SD" 2+79.44	"SD" 3+22.05
L4	LINE	101.45	-	N83° 41' 49.73"E	"SD" 3+22.05	"SD" 4+23.50

UNDERGROUND UTILITY NOTES

1. UNDERGROUND UTILITIES ARE SHOWN BASED ON A COMBINATION OF VISIBLE PHYSICAL EVIDENCE AND RECORDS MADE AVAILABLE TO THE SURVEYOR.
2. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES ARE IN THE EXACT LOCATIONS INDICATED. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.
3. CALL UNDERGROUND SERVICE ALERT (USA) 1-800-642-2444 A MINIMUM OF TWO WORKING DAYS PRIOR TO ANY EXCAVATIONS.



LEGEND

- TEMPORARY CONTROL POINT
- MATTOLE ROAD RW
- TCE
- IMPLIED COMMON LAW DEDICATION
- ALIGNMENT LINE



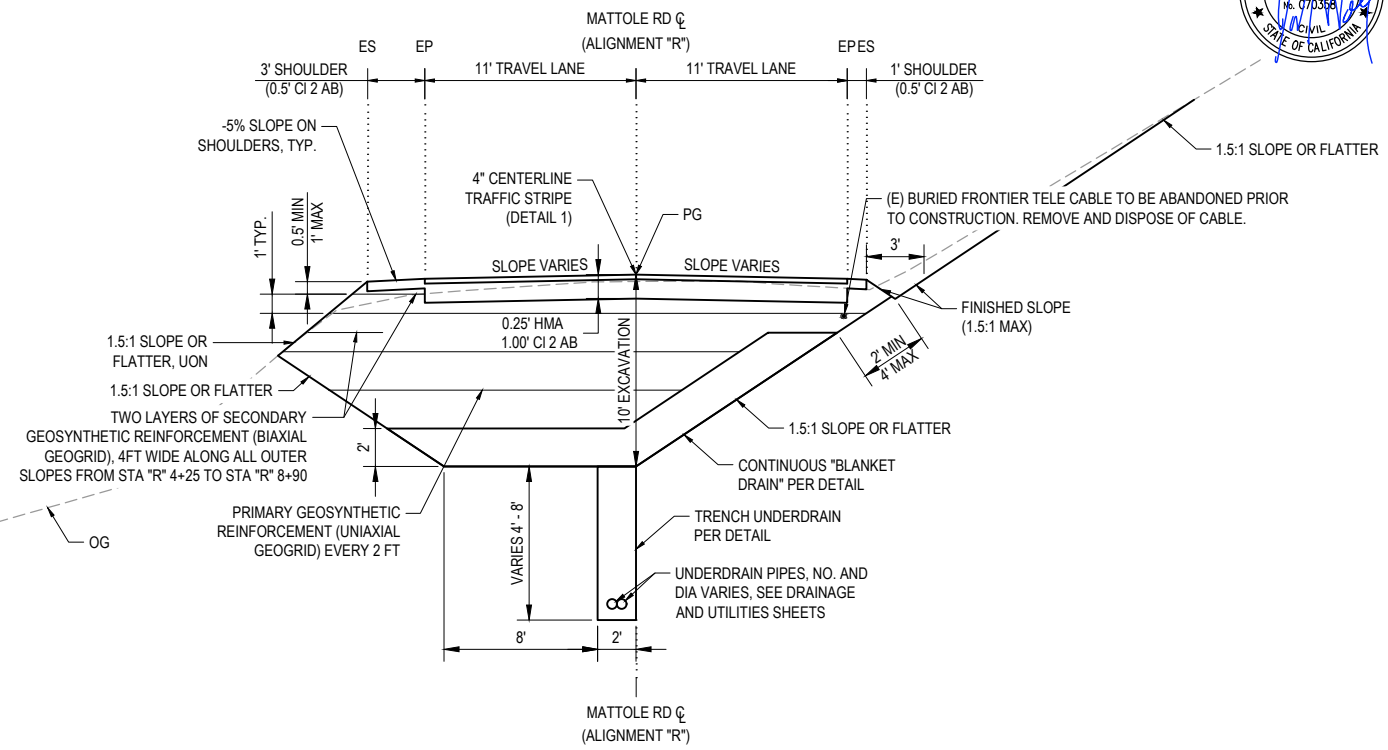
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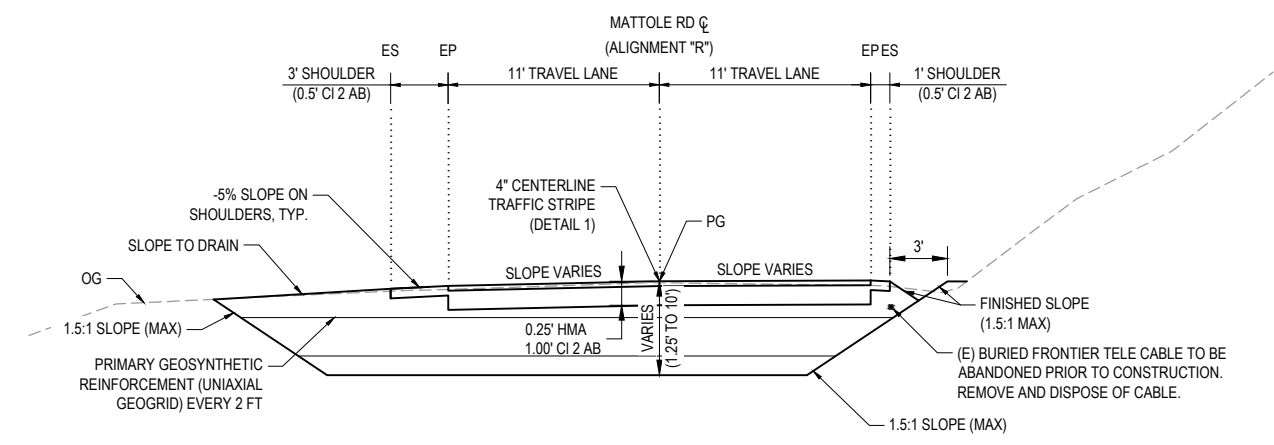
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PM 36.06 TYPICAL SECTIONS

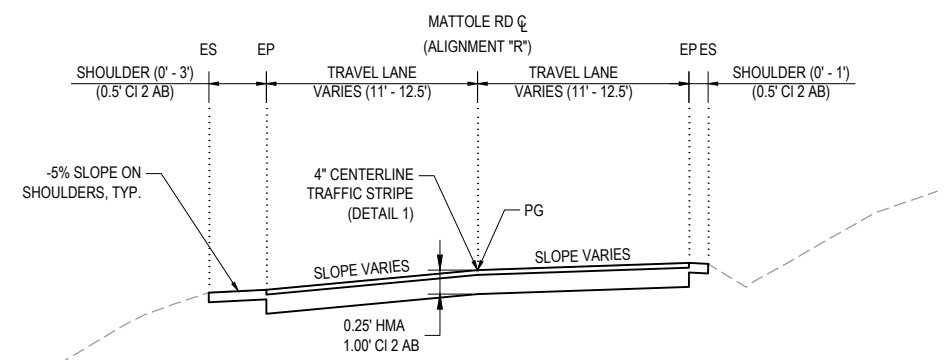
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OF
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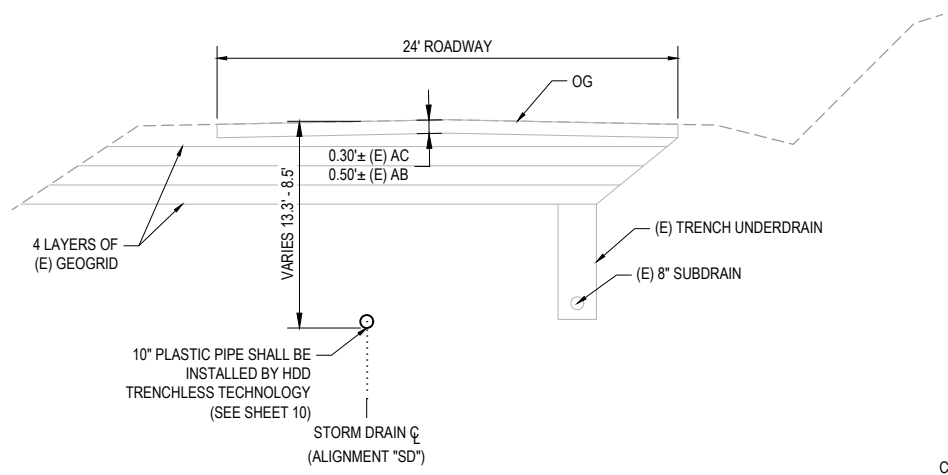
TYPICAL SECTION - MATTOLE ROAD
NOT TO SCALE STA "R" 2+10 - STA "R" 8+90



TYPICAL SECTION - MATTOLE ROAD
NOT TO SCALE STA "R" 1+80 - 2+10 & STA "R" 8+90 - 9+30



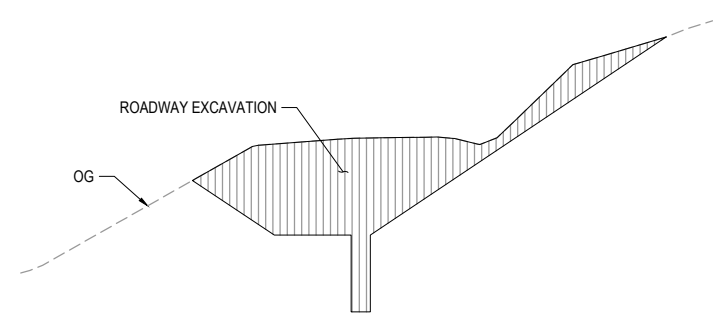
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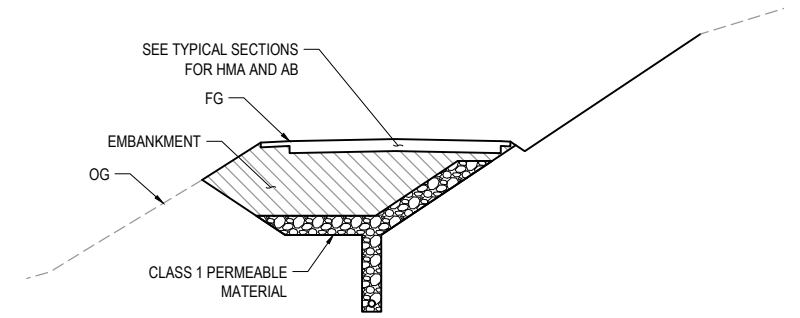
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NOT TO SCALE STA "SD" 1+00 - STA "SD" 4+23.50

LEGEND

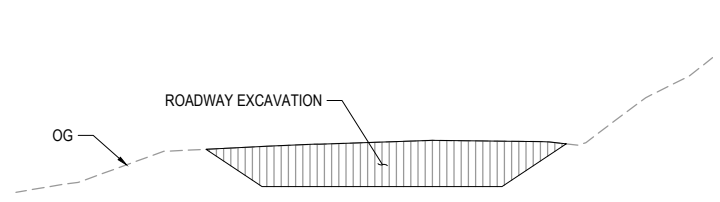
- ROADWAY EXCAVATION
- EMBANKMENT
- CLASS 1 PERMEABLE MATERIAL



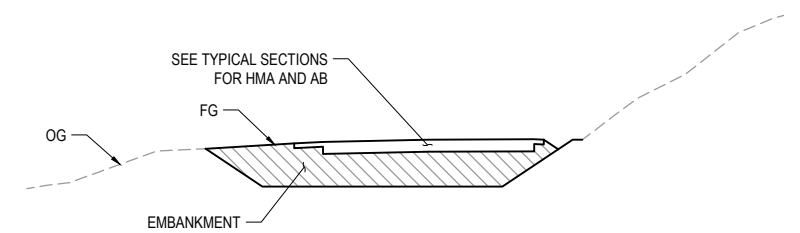
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NOT TO SCALE



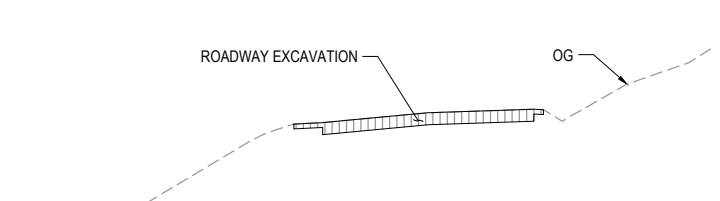
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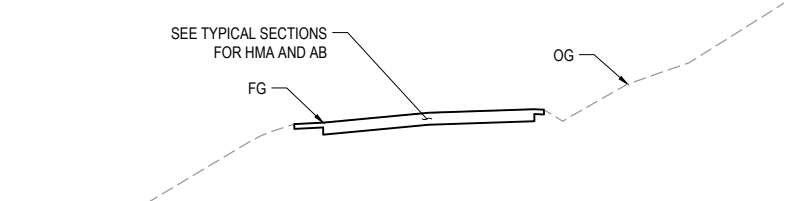
LIMITS OF PAYMENT - CUT
NOT TO SCALE



LIMITS OF PAYMENT - FILL
NOT TO SCALE



LIMITS OF PAYMENT - CUT
NOT TO SCALE



LIMITS OF PAYMENT - FILL
NOT TO SCALE



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ROAD NAME:	MATTOLE ROAD
ROAD NO.:	F3C010
MILE POST:	36.06 & 36.16
PROJECT NO.:	ER-32L0(114) & ER-32L0(325)
CONTRACT NO.:	217207 & 217433
PLOT DATE:	03/05/2021

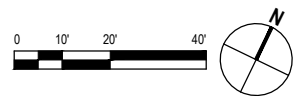
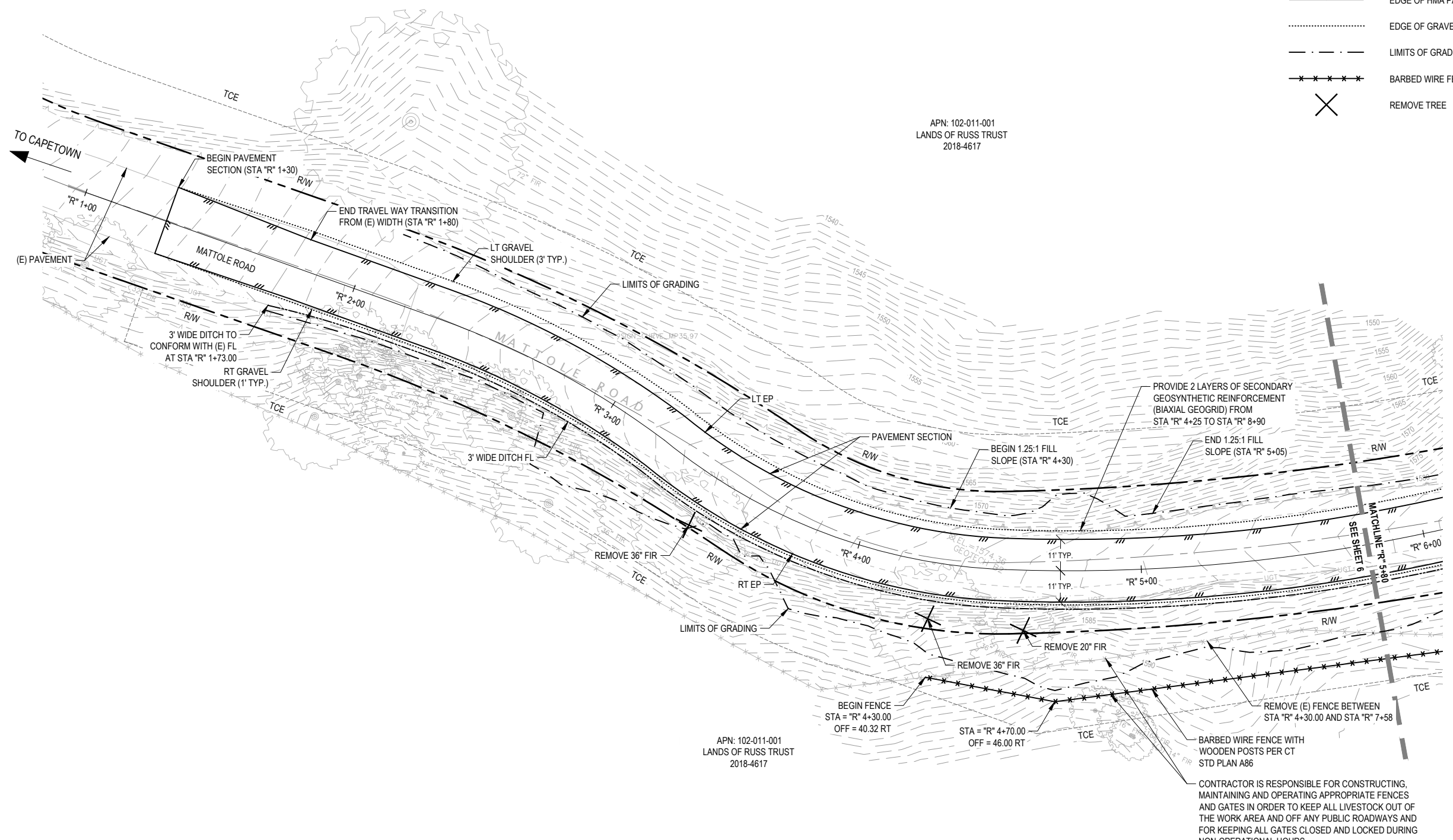
DESIGN SECTION:	ENGINEERING
DESIGNED BY:	C.PROVO
DRAWN BY:	C.PROVO
REVIEWED BY:	J.WOLF
APPROVED BY:	J.WOLF

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	
STORM DAMAGE REPAIR MATTOLE ROAD PM 36.06 & 36.16	
PM 36.06 ROADWAY PLAN - STA "R" 1+00 TO STA "R" 5+80	

SHEET
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LEGEND

- DITCH FLOWLINE
- EDGE OF HMA PAVEMENT SECTION
- EDGE OF GRAVEL SHOULDER
- LIMITS OF GRADING
- BARBED WIRE FENCE WITH WOODEN POSTS
- REMOVE TREE





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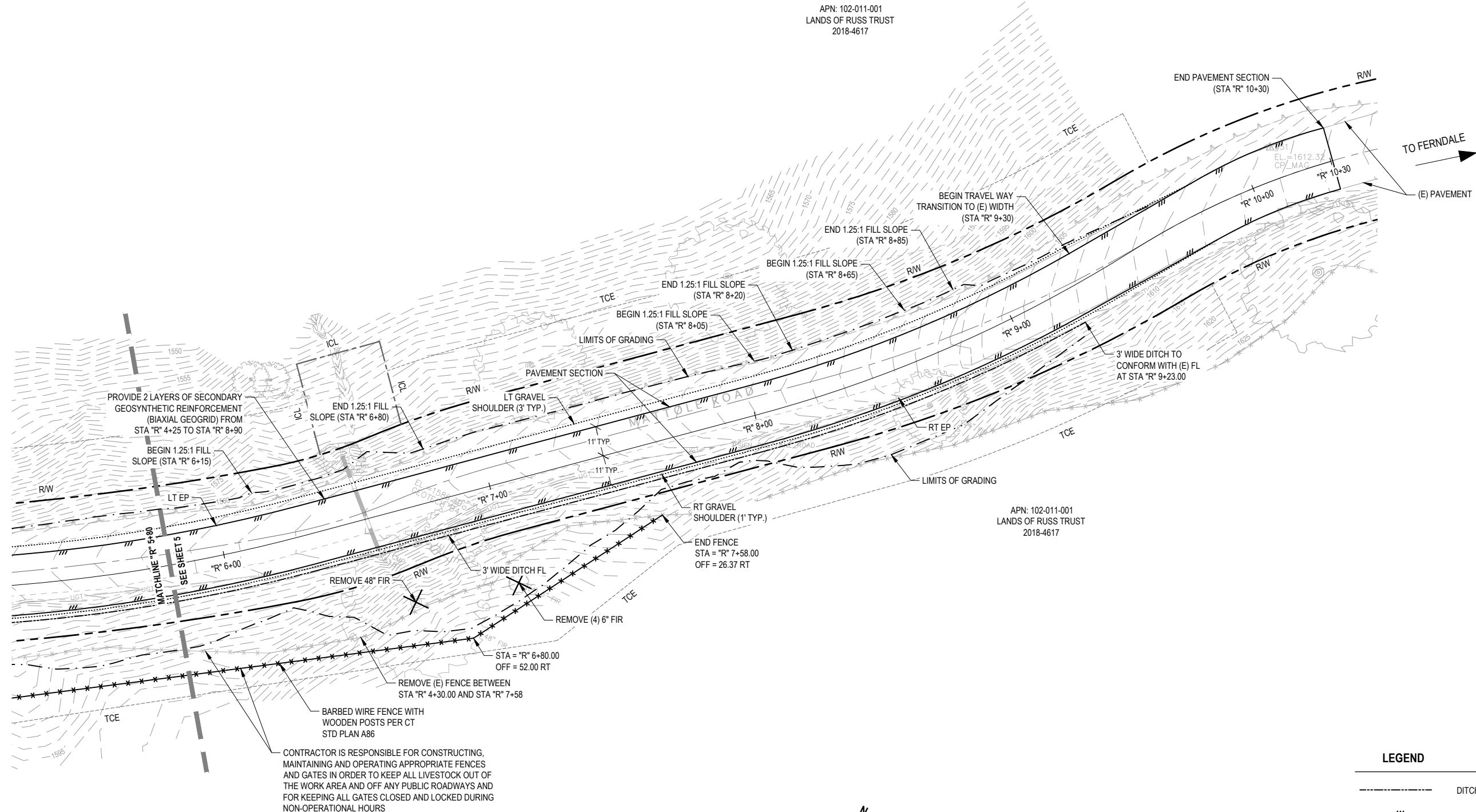


BAR IS ONE INCH ON ORIGINAL DRAWING	ROAD NAME: MATTOLE ROAD	DESIGN SECTION ENGINEERING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NO: F3C010	DESIGNED BY: C.PROVO
	MILE POST: 36.06 & 36.16	DRAWN BY: C.PROVO
	PROJECT NO.: ER-32L0(114) & ER-32L0(325)	REVIEWED BY: J.WOLF
	CONTRACT NO.: 217207 & 217433	APPROVED BY: J.WOLF
	PLOT DATE: 03/05/2021	

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR MATTOLE ROAD PM 36.06 & 36.16
PM 36.06 ROADWAY PLAN - STA "R" 5+80 TO STA "R" 9+70

SHEET 7 OF 22

APN: 102-011-001
LANDS OF RUSS TRUST
2018-4617



CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTING, MAINTAINING AND OPERATING APPROPRIATE FENCES AND GATES IN ORDER TO KEEP ALL LIVESTOCK OUT OF THE WORK AREA AND OFF ANY PUBLIC ROADWAYS AND FOR KEEPING ALL GATES CLOSED AND LOCKED DURING NON-OPERATIONAL HOURS



LEGEND

- DITCH FLOWLINE
- EDGE OF HMA PAVEMENT SECTION
- EDGE OF 2' WIDE X 0.67' TALL BERM
- EDGE OF GRAVEL SHOULDER
- LIMITS OF GRADING
- BARBED WIRE FENCE WITH WOODEN POSTS
- REMOVE TREE



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PLOT DATE: 03/05/2021	

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR MATTOLE ROAD PM 36.06 & 36.16
PM 36.06 ROADWAY PROFILE AND SUPERELEVATION

SHEET 8 OF 22

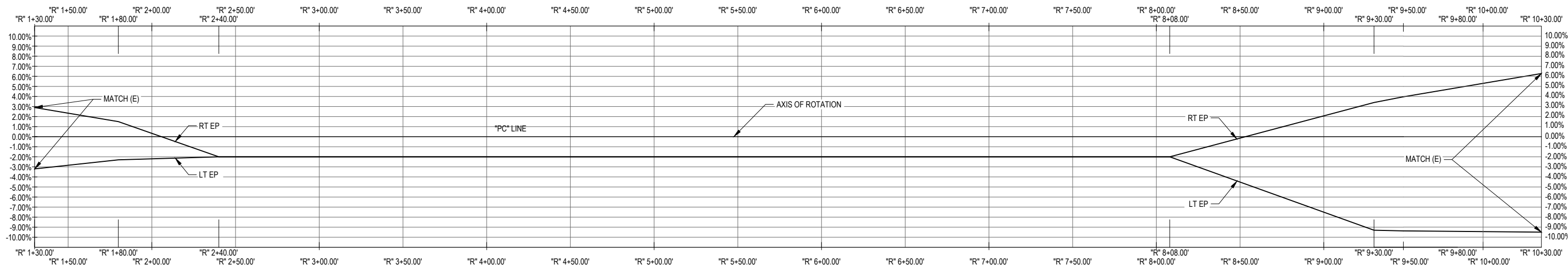
ROADWAY GEOMETRY					
STATION	LEFT TRAVEL LANE CROSS SLOPE	LEFT EP ELEVATION	CROWN ELEVATION	RIGHT EP ELEVATION	RIGHT TRAVEL LANE CROSS SLOPE
"R" 1+30	-3.20%	1550.97	1551.32	1551.64	2.90%
"R" 1+80	-2.30%	1555.40	1555.65	1555.82	1.50%
"R" 2+40	-2.00%	1560.45	1560.67	1560.45	-2.00%
"R" 8+08	-2.00%	1596.56	1596.78	1596.56	-2.00%
"R" 9+30	-9.30%	1606.55	1607.57	1607.94	3.40%
"R" 9+80	-9.50%	1610.02	1611.06	1611.61	5.00%
"R" 10+30	-9.60%	1613.35	1614.55	1615.20	6.20%

TRENCH GEOMETRY			
STATION	BOTTOM ELEVATION	TOP ELEVATION	DEPTH
"R" 2+10	1544.20	1548.20	4.00
"R" 2+40	1544.68	1550.68	6.00
"R" 3+10	1548.11	1556.11	8.00
"R" 8+90	1585.78	1593.78	8.00

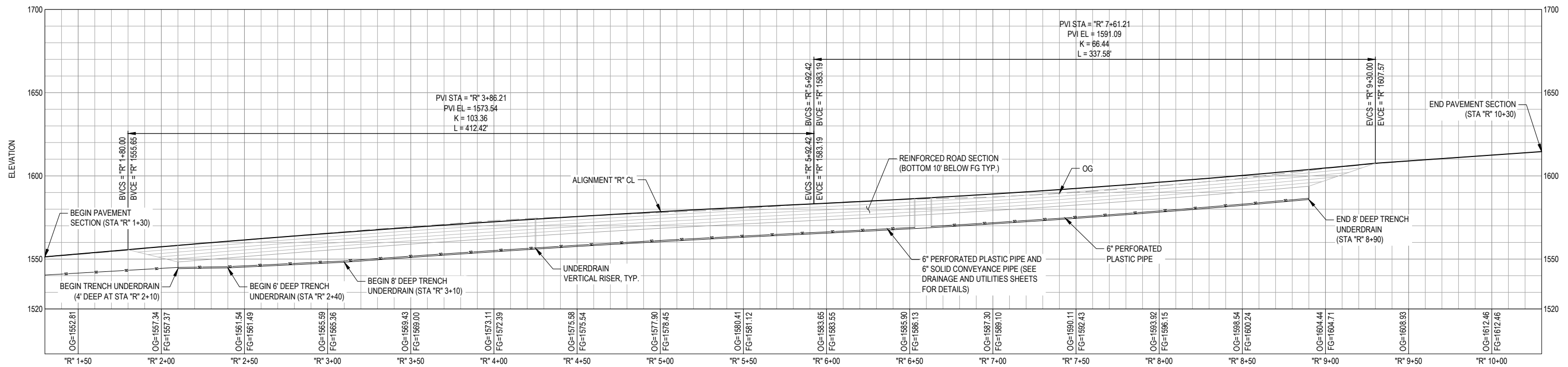
Note: Negative cross slopes indicate downwards sloping away from centerline

TRENCH ELEVATIONS

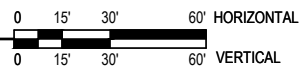
ROADWAY ELEVATIONS



MATTOLE ROAD PM 36.06 SUPERELEVATION



MATTOLE ROAD PM 36.06 PROFILE VIEW





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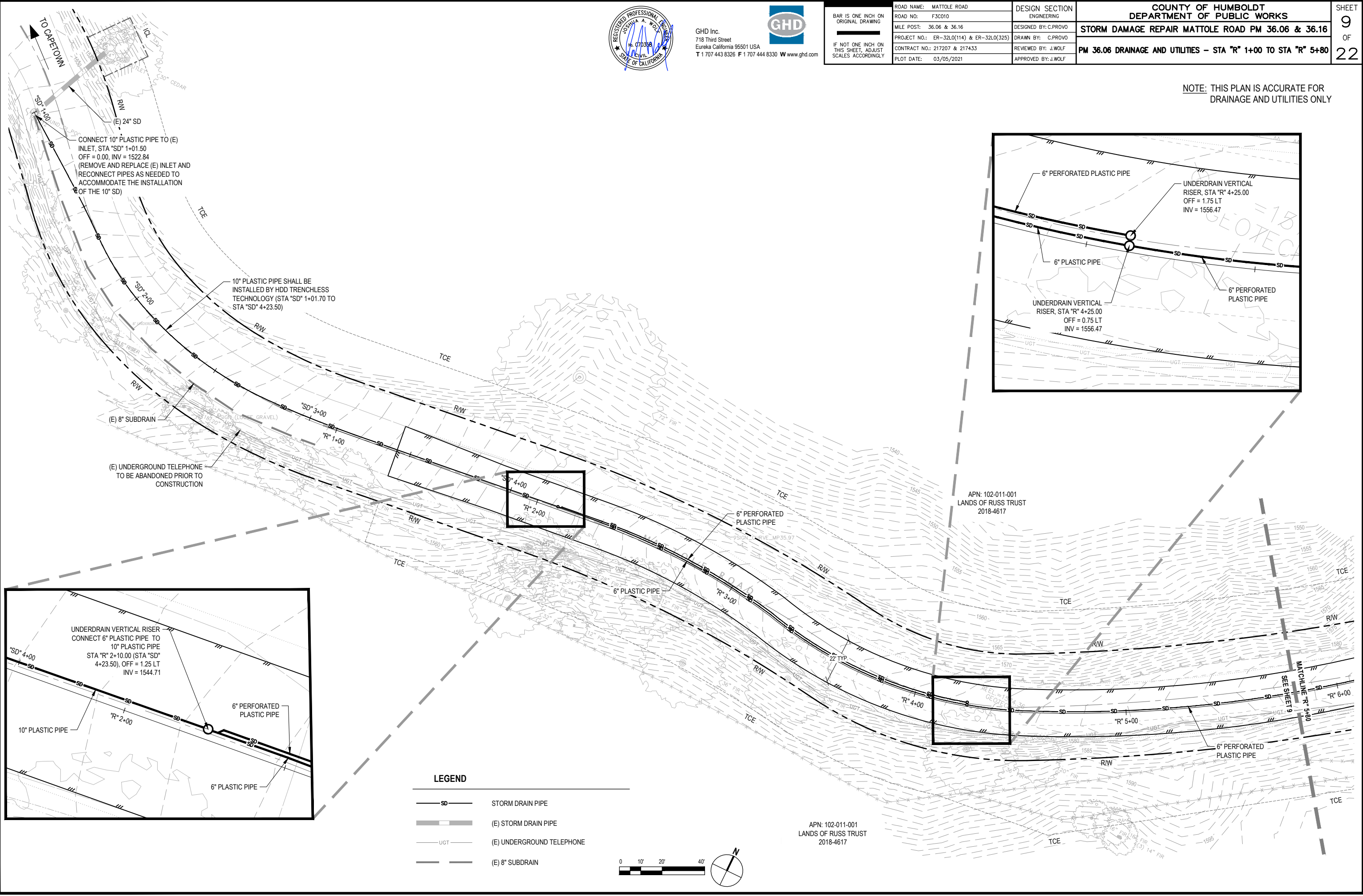


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ROAD NO: F3C010	DESIGNED BY: C.PROVO
MILE POST: 36.06 & 36.16	DRAWN BY: C.PROVO
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COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR MATTOLE ROAD PM 36.06 & 36.16
PM 36.06 DRAINAGE AND UTILITIES - STA "R" 1+00 TO STA "R" 5+80

SHEET
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OF
22

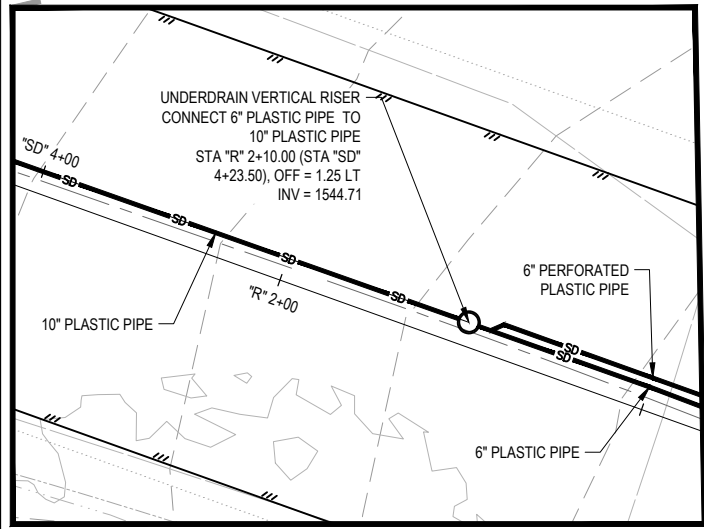
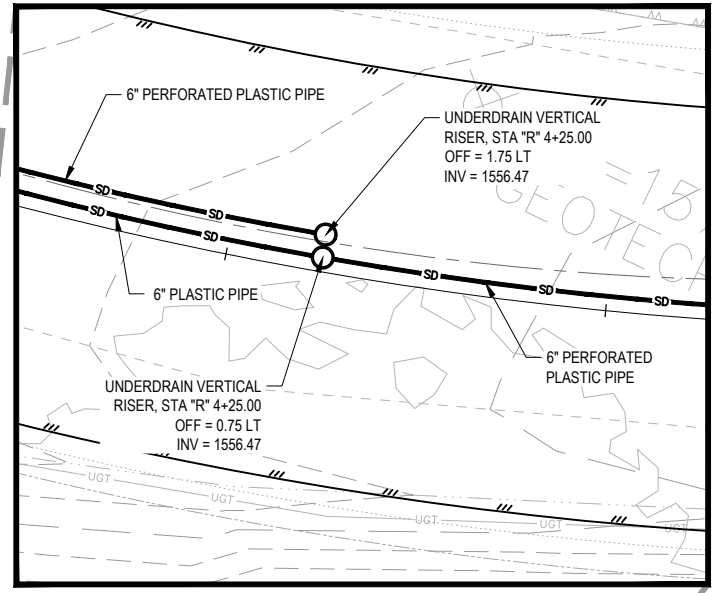
NOTE: THIS PLAN IS ACCURATE FOR DRAINAGE AND UTILITIES ONLY



CONNECT 10" PLASTIC PIPE TO (E) INLET, STA "SD" 1+01.50
OFF = 0.00, INV = 1522.84
(REMOVE AND REPLACE (E) INLET AND RECONNECT PIPES AS NEEDED TO ACCOMMODATE THE INSTALLATION OF THE 10" SD)

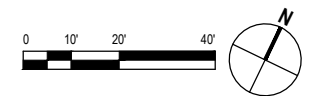
10" PLASTIC PIPE SHALL BE INSTALLED BY HDD TRENCHLESS TECHNOLOGY (STA "SD" 1+01.70 TO STA "SD" 4+23.50)

(E) UNDERGROUND TELEPHONE TO BE ABANDONED PRIOR TO CONSTRUCTION



LEGEND

	STORM DRAIN PIPE
	(E) STORM DRAIN PIPE
	(E) UNDERGROUND TELEPHONE
	(E) 8" SUBDRAIN



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SEE SHEET 9

MATCHLINE "R" 5+80



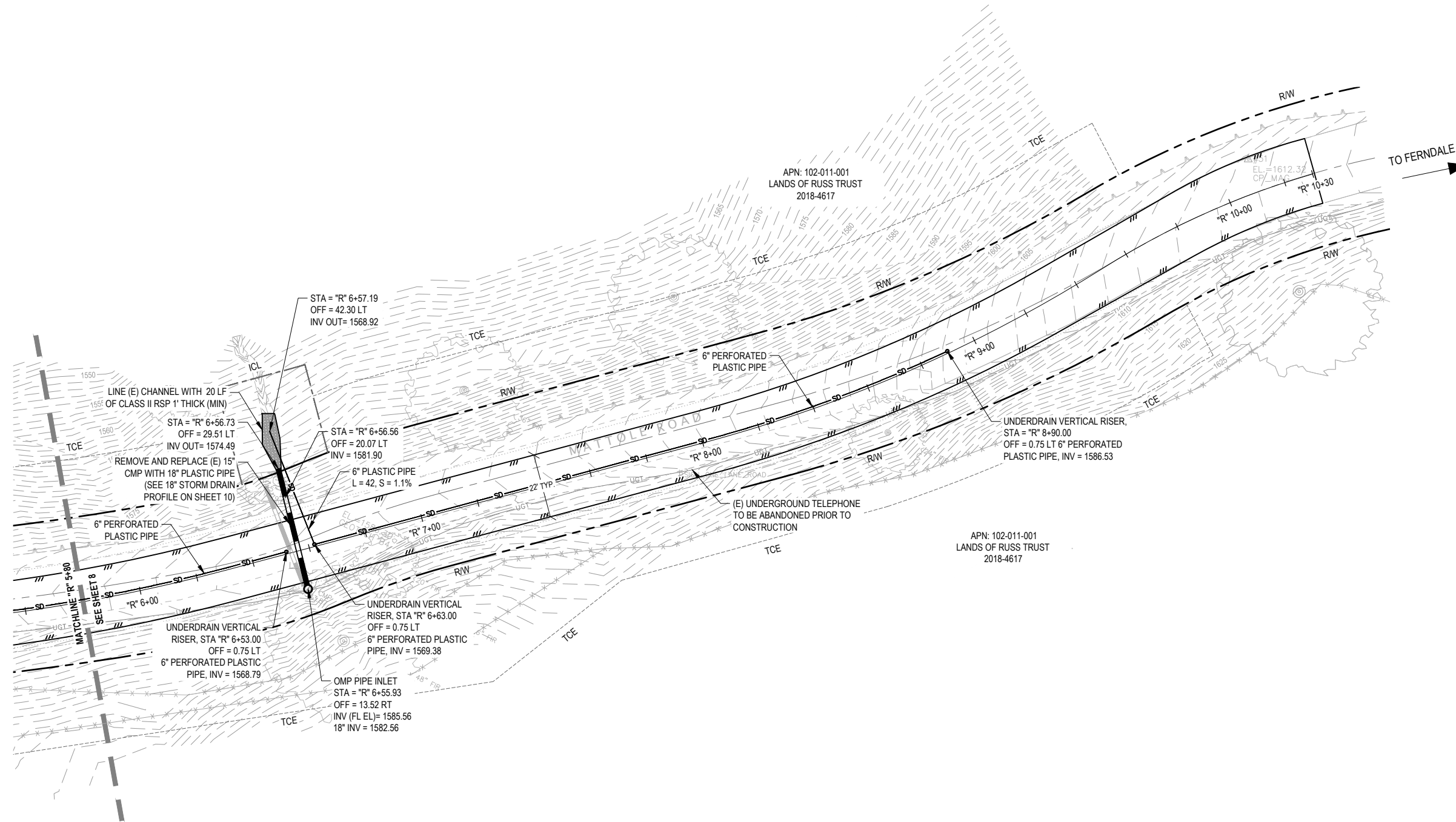
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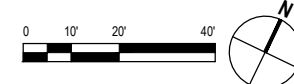
COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR MATTOLE ROAD PM 36.06 & 36.16
PM 36.06 DRAINAGE AND UTILITIES - STA "R" 5+80 TO STA "R" 9+70

SHEET
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OF
22



LEGEND

- 6" STORM DRAIN PIPE
- 18" HDPE CULVERT
- (E) STORM DRAIN PIPE
- (E) UNDERGROUND TELEPHONE





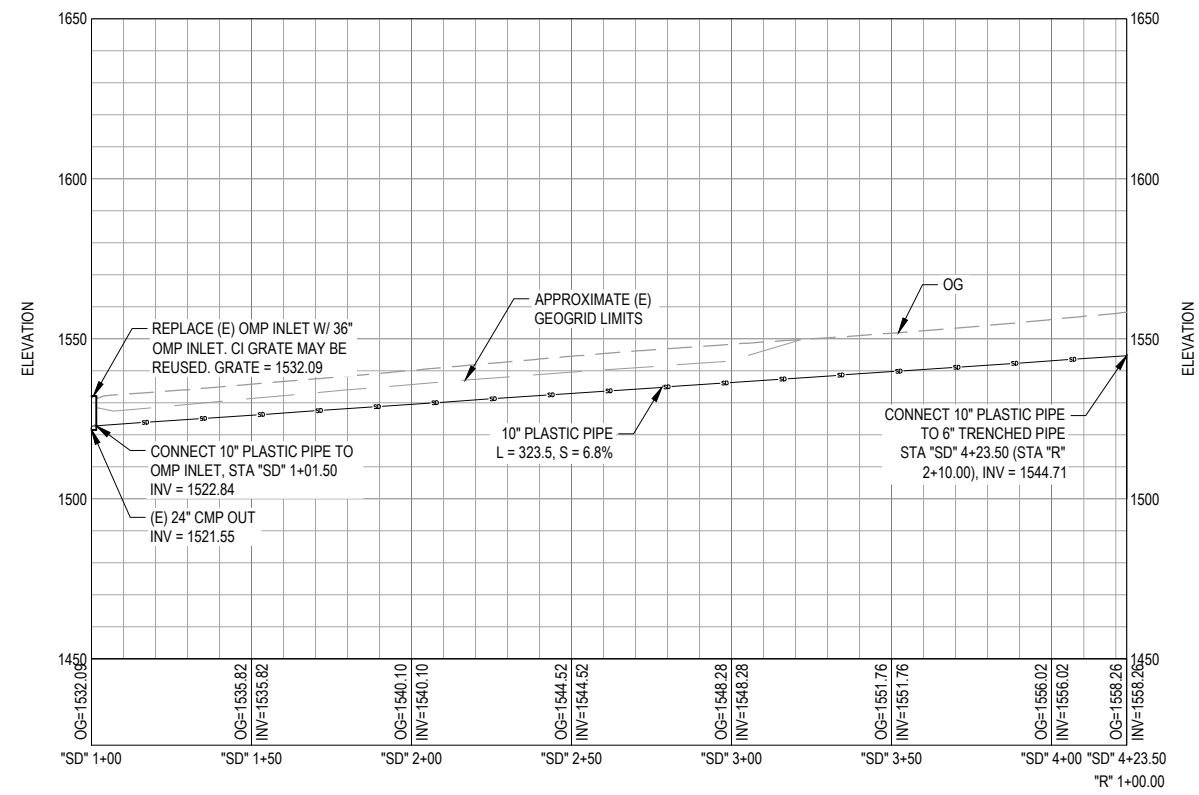
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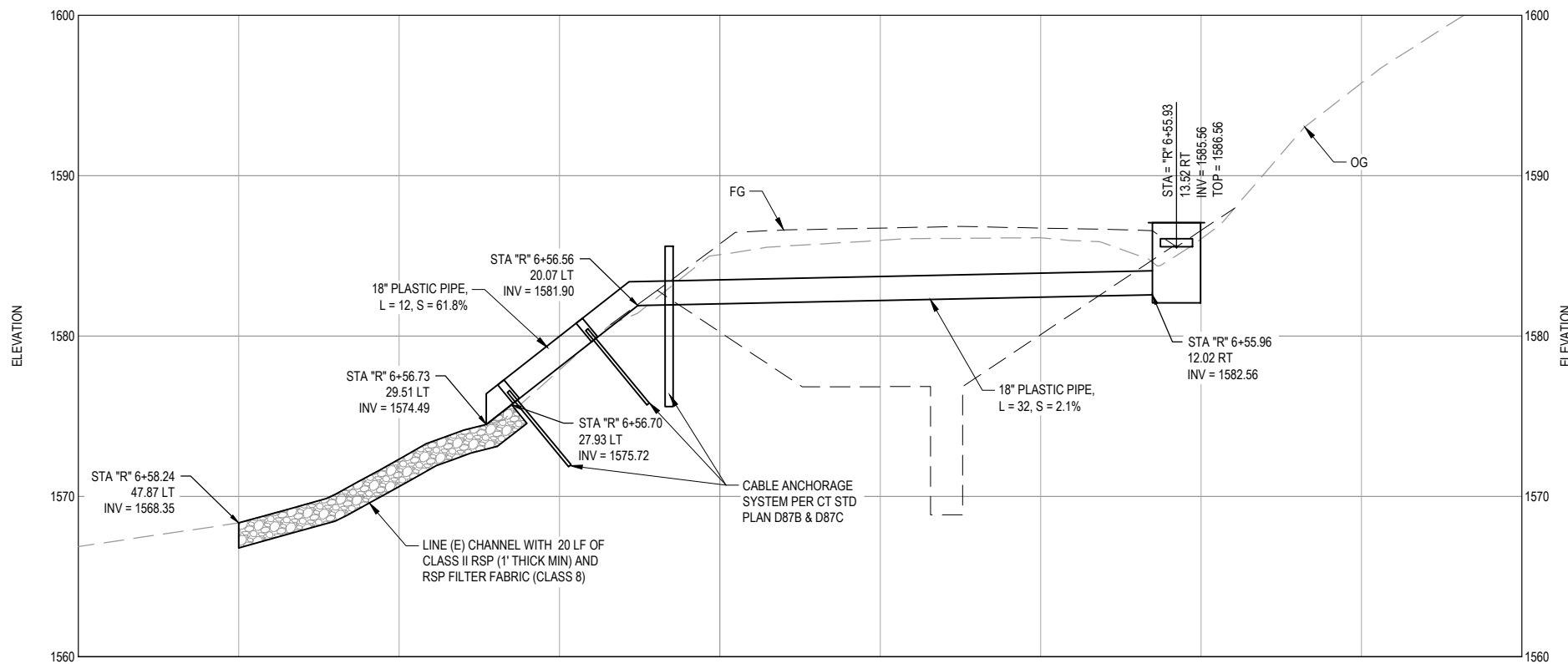
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COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 11 OF 22
STORM DAMAGE REPAIR MATTOLE ROAD PM 36.06 & 36.16	
PM 36.06 DRAINAGE PROFILES	



10" HDD PIPE PROFILE

0 15' 30' 60' HORIZONTAL
0 15' 30' 60' VERTICAL



18" STORM DRAIN PROFILE

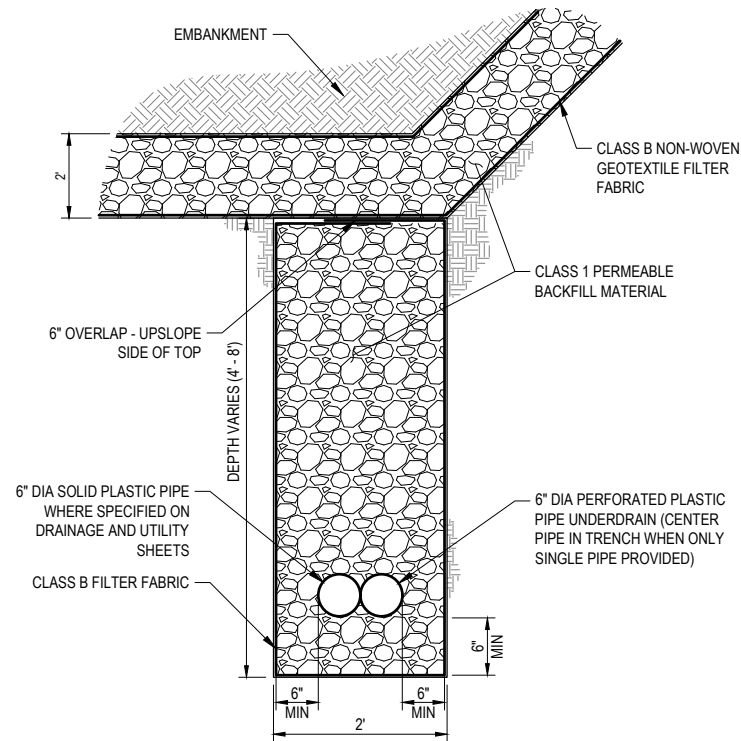
0 5' 10' HORIZONTAL
0 5' 10' VERTICAL



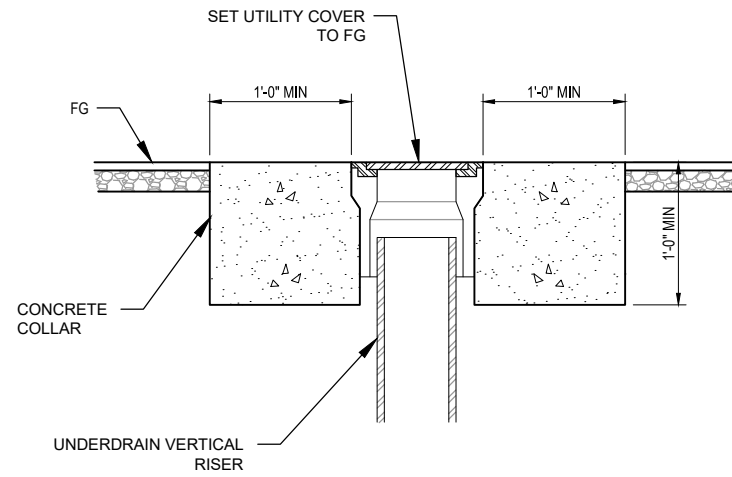
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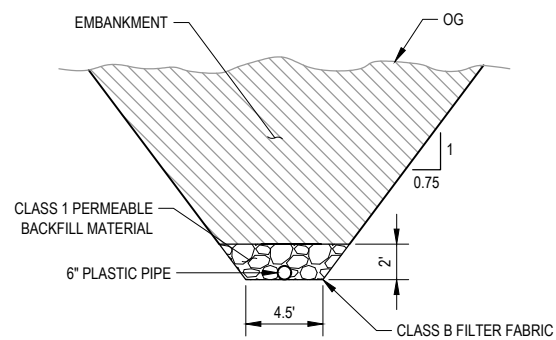
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: MATTOLE ROAD ROAD NO: F3C010 MILE POST: 36.06 & 36.16 PROJECT NO.: ER-32L0(114) & ER-32L0(325) CONTRACT NO.: 217207 & 217433 PLOT DATE: 03/05/2021	DESIGN SECTION ENGINEERING DESIGNED BY: C.PROVO DRAWN BY: C.PROVO REVIEWED BY: J.WOLF APPROVED BY: J.WOLF	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS STORM DAMAGE REPAIR MATTOLE ROAD PM 36.06 & 36.16 PM 36.06 CONSTRUCTION DETAILS	SHEET 12 OF 22
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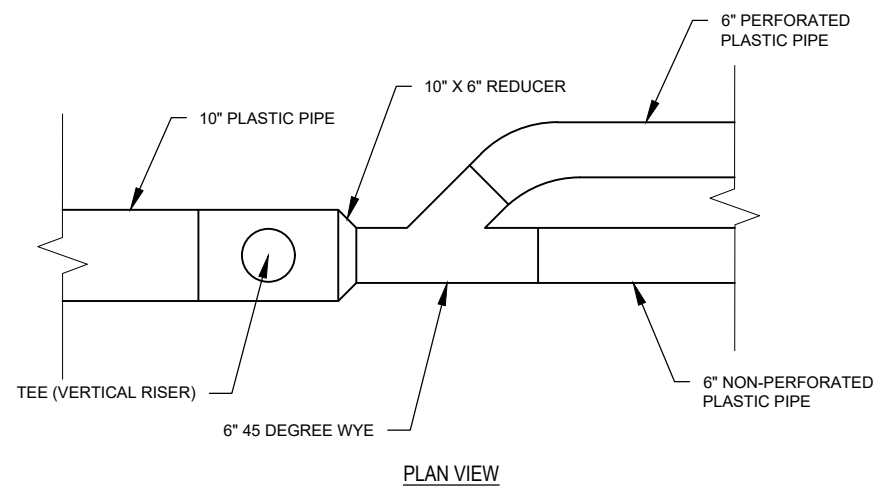
TYPICAL TRENCH UNDERDRAIN & BLANKET DRAIN
NOT TO SCALE



UNDERDRAIN RISER COVER AND CONCRETE COLLAR DETAIL
NOT TO SCALE



UNDERDRAIN OUTLET DETAIL
NOT TO SCALE



SD CONNECTION DETAIL
NOT TO SCALE

NOTE: THIS PLAN IS ACCURATE FOR EROSION CONTROL ONLY



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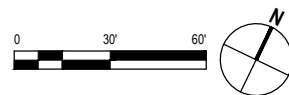
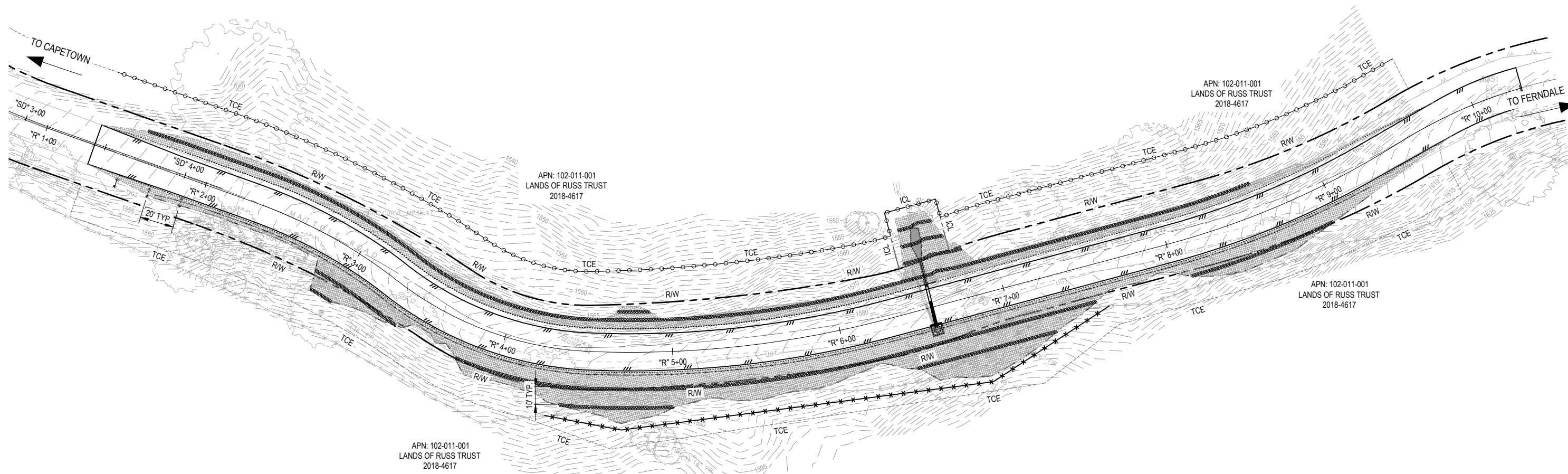


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COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR MATTOLE ROAD PM 36.06 & 36.16
PM 36.06 EROSION CONTROL PLAN

SHEET 13 OF 22



LEGEND

- HAND SOWN SEED UNDER ROLLED EROSION CONTROL PRODUCT
- TEMPORARY CHECK DAMS
- TEMPORARY SILT FENCE
- FIBER ROLLS
- TEMPORARY DRAINAGE INLET PROTECTION



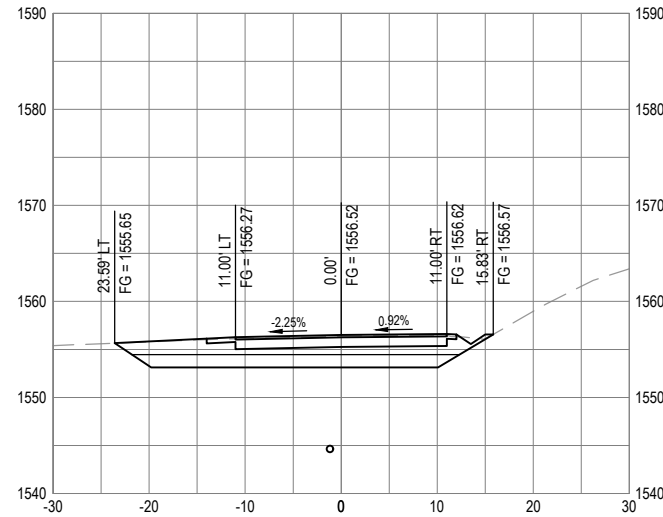
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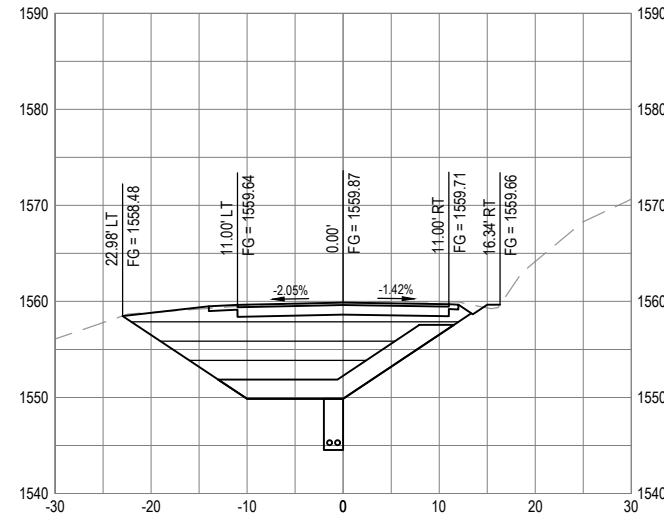
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COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR MATTOLE ROAD PM 36.06 & 36.16
PM 36.06 CROSS SECTIONS - 1 OF 3

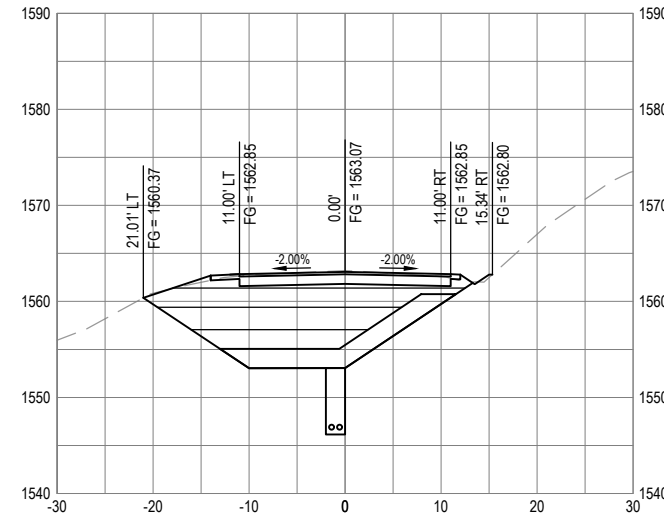
SHEET 14 OF 22



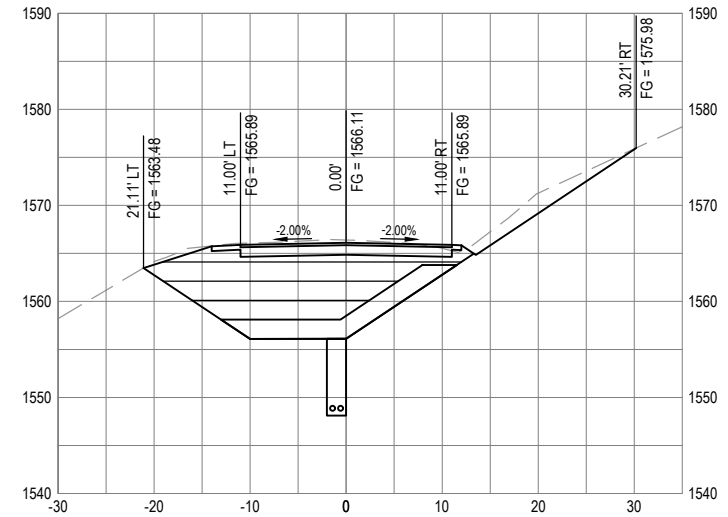
SECTION - STA "R" 1+90



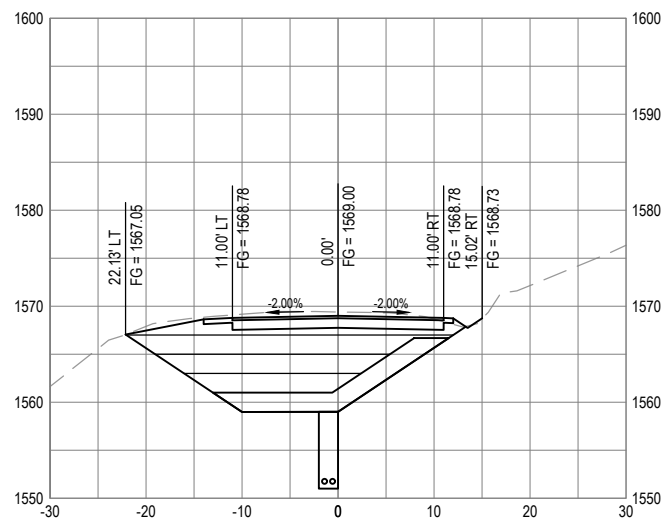
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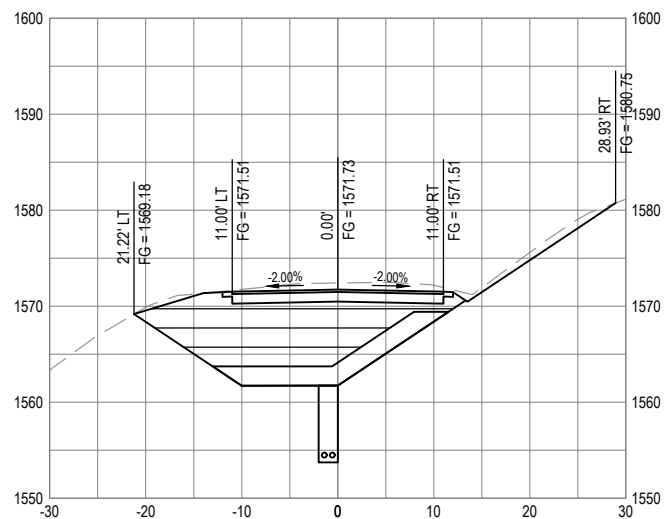
SECTION - STA "R" 2+70



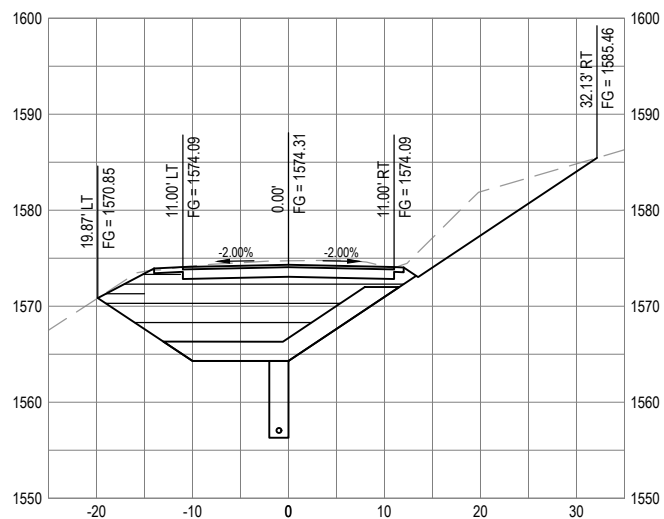
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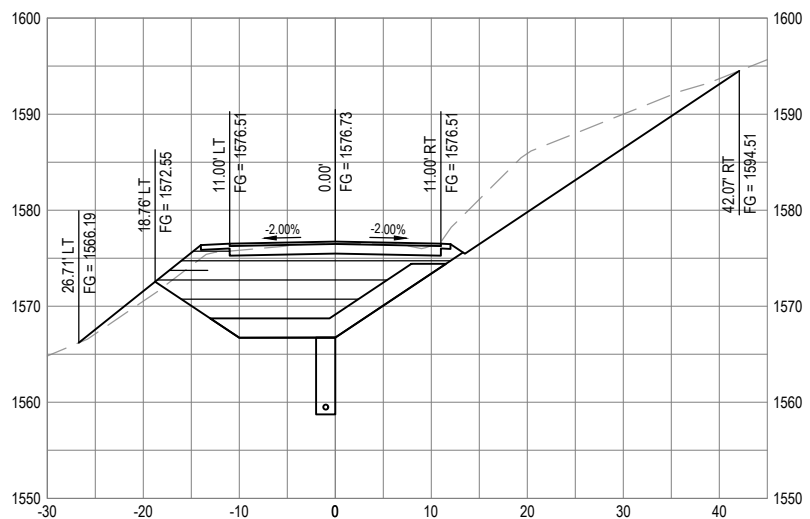
SECTION - STA "R" 3+50



SECTION - STA "R" 3+90



SECTION - STA "R" 4+30



SECTION - STA "R" 4+70



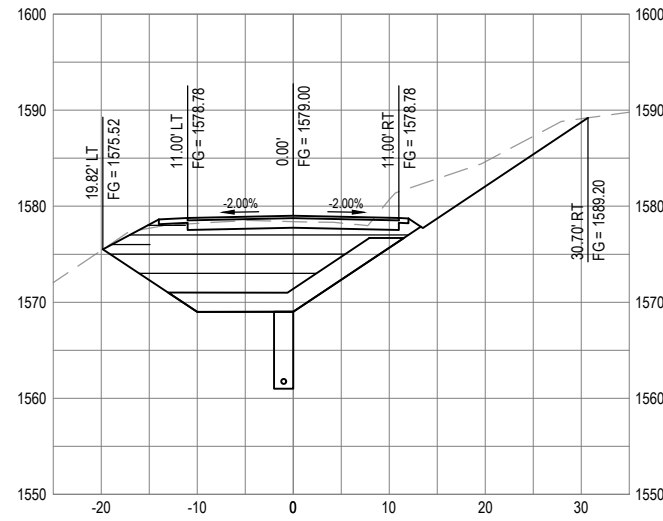
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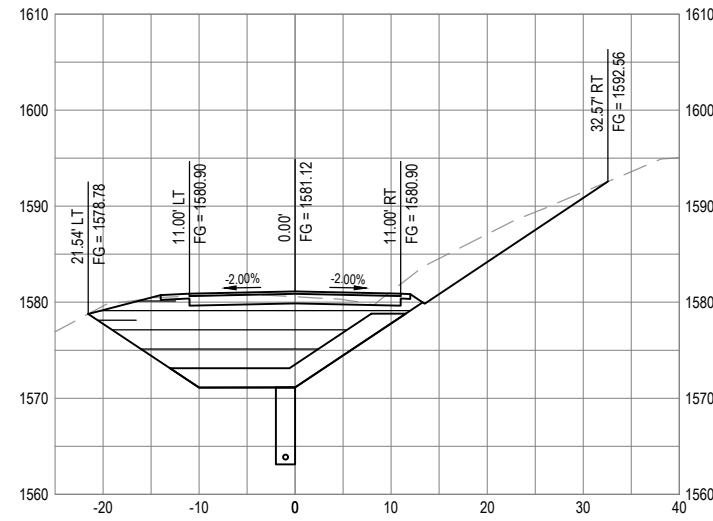
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PLOT DATE: 03/05/2021	

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR MATTOLE ROAD PM 36.06 & 36.16
PM 36.06 CROSS SECTIONS - 2 OF 3

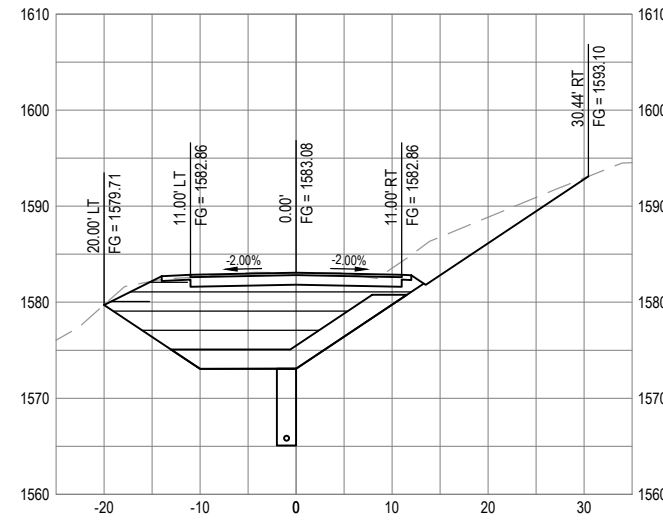
SHEET 15 OF 22



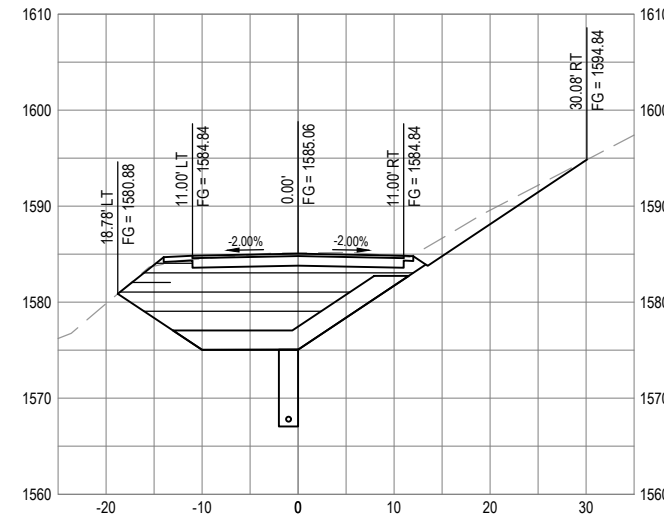
SECTION - STA "R" 5+10



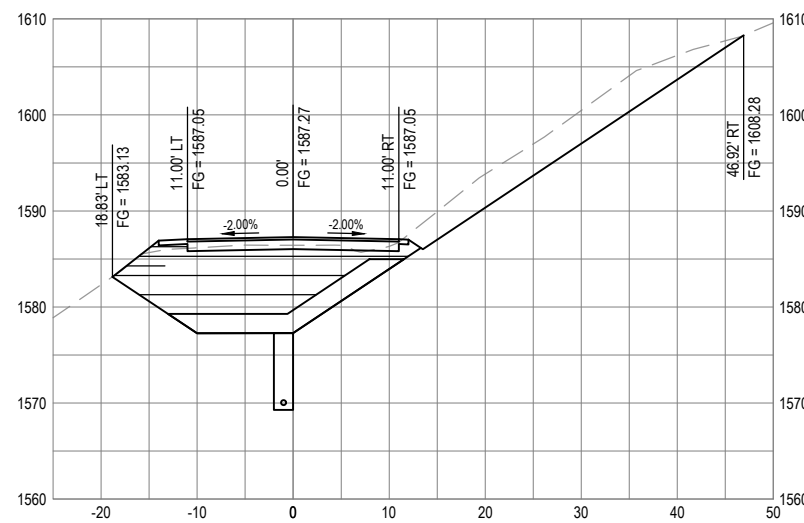
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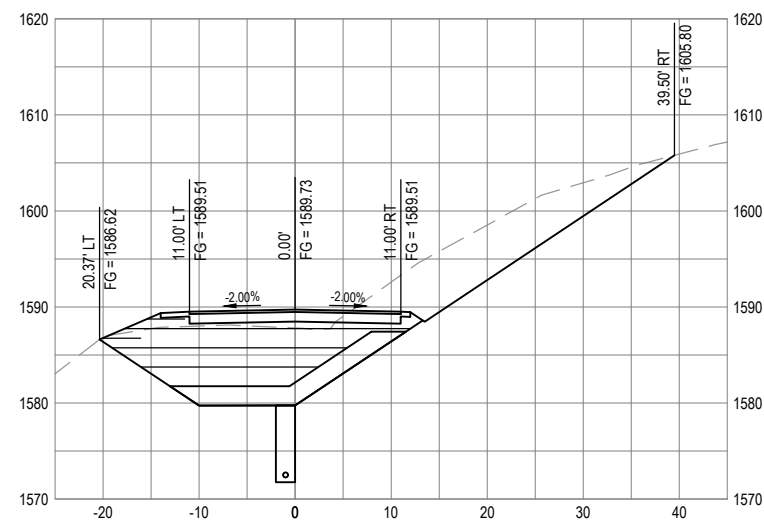
SECTION - STA "R" 5+90



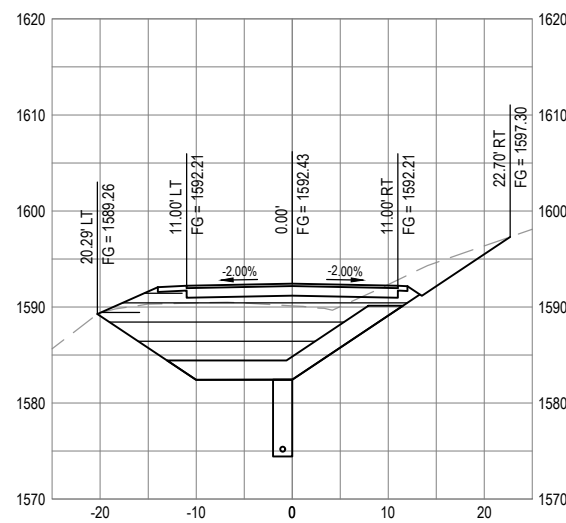
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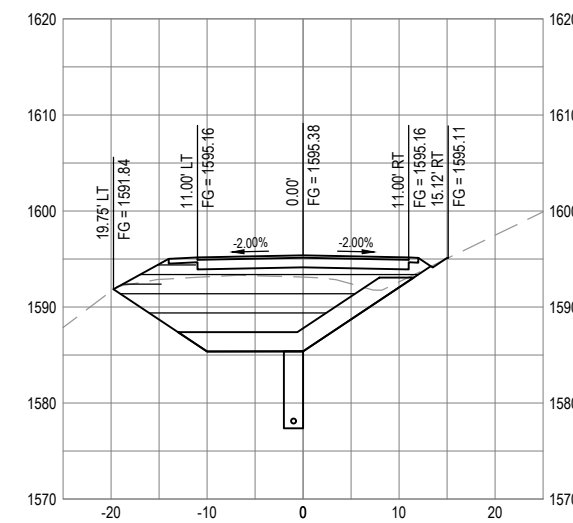
SECTION - STA "R" 6+70



SECTION - STA "R" 7+10



SECTION - STA "R" 7+50



SECTION - STA "R" 7+90



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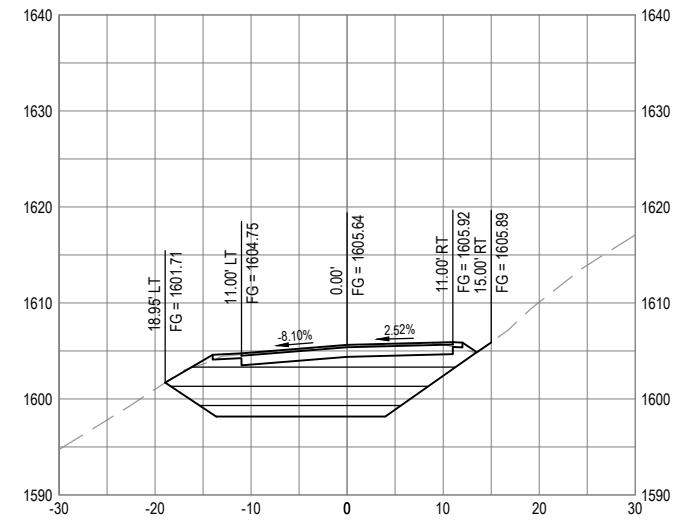
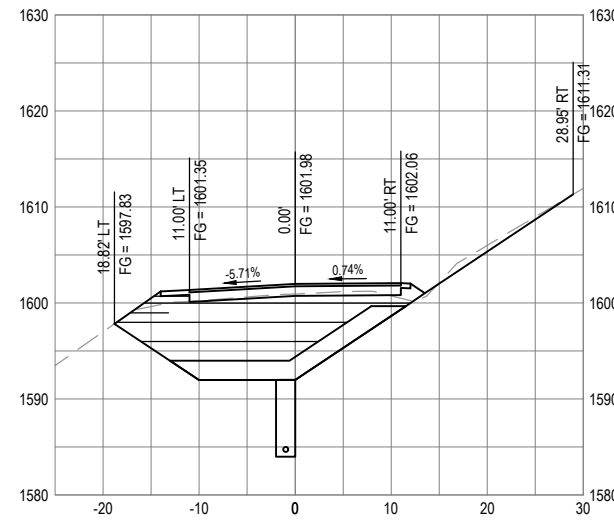
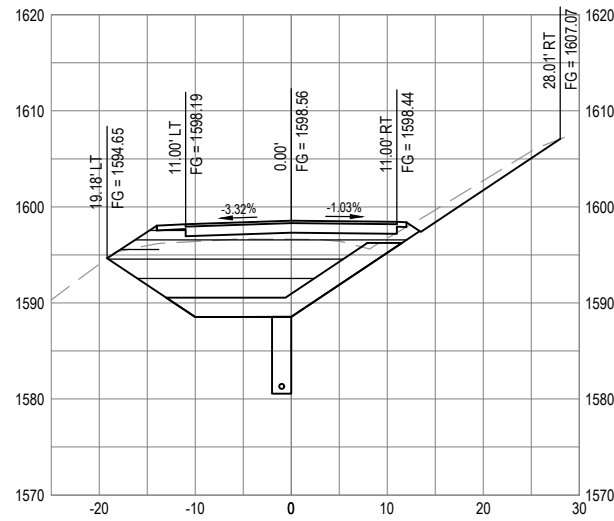
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PLOT DATE:	03/05/2021

DESIGN SECTION	ENGINEERING
DESIGNED BY:	C.PROVO
DRAWN BY:	C.PROVO
REVIEWED BY:	J.WOLF
APPROVED BY:	J.WOLF

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR MATTOLE ROAD PM 36.06 & 36.16
PM 36.06 CROSS SECTIONS - 3 OF 3

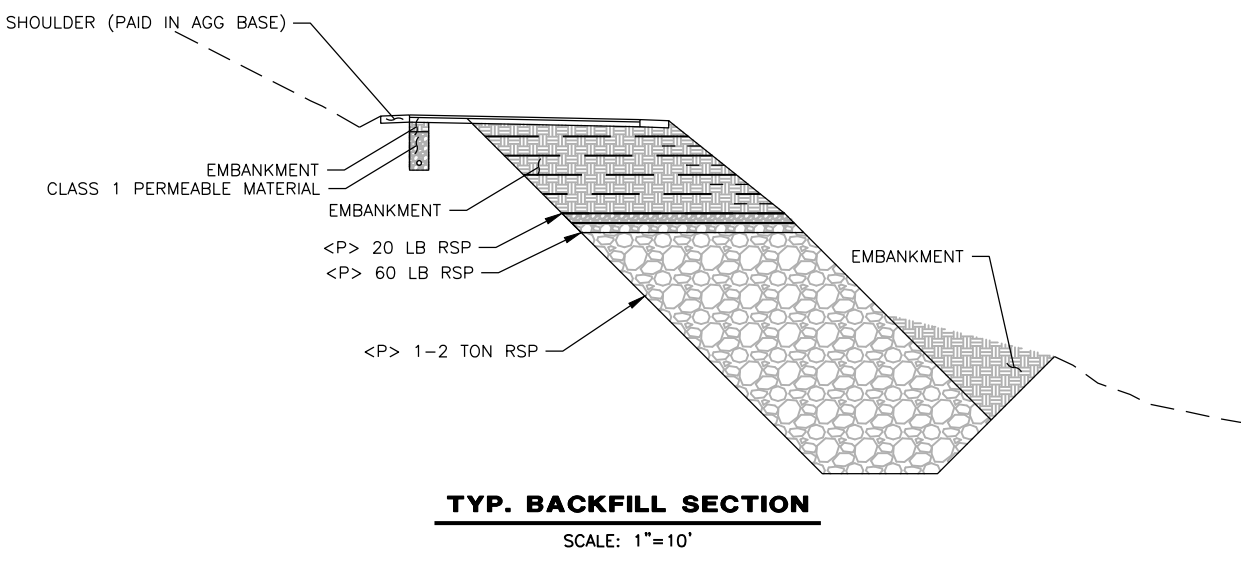
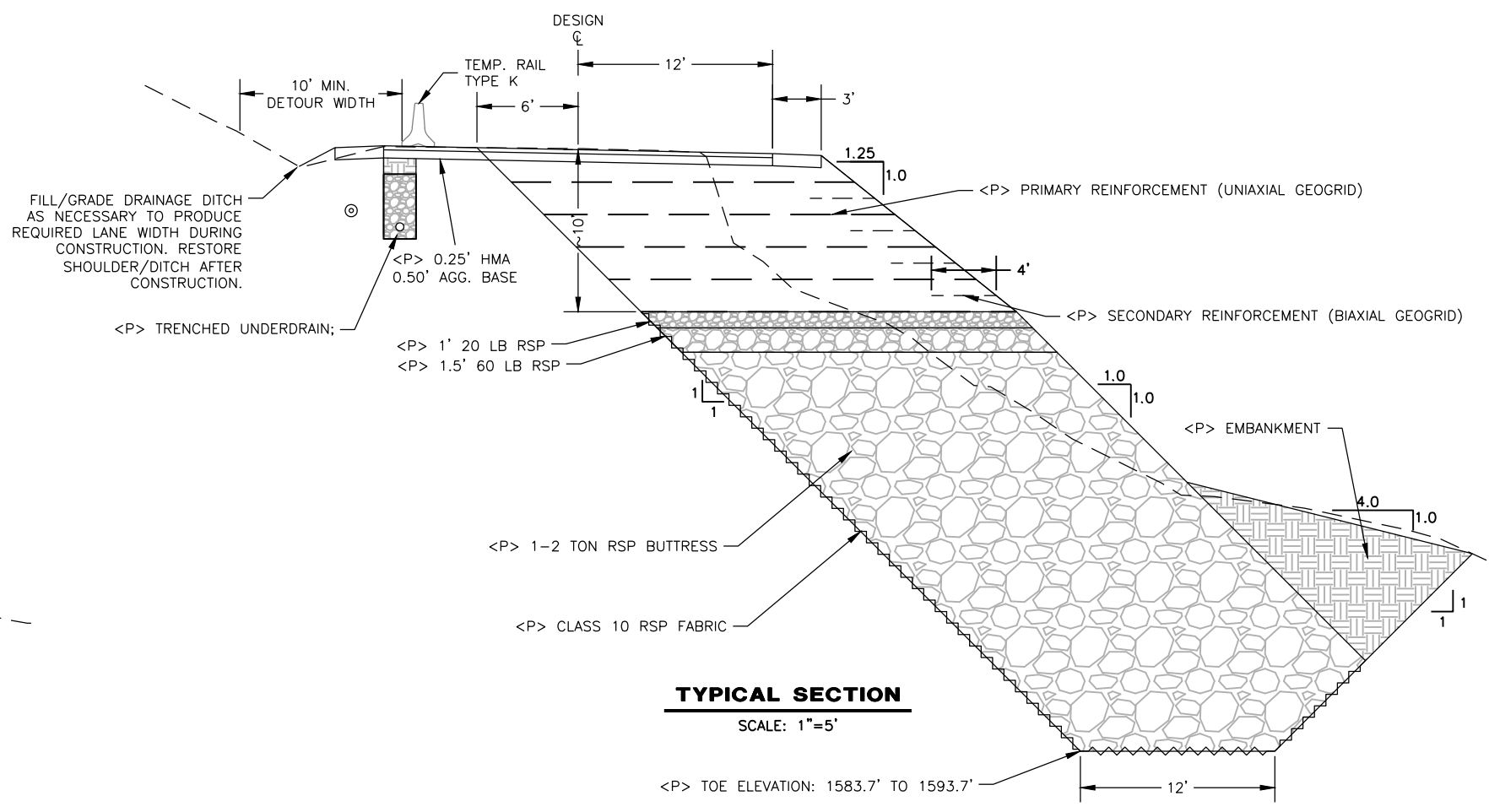
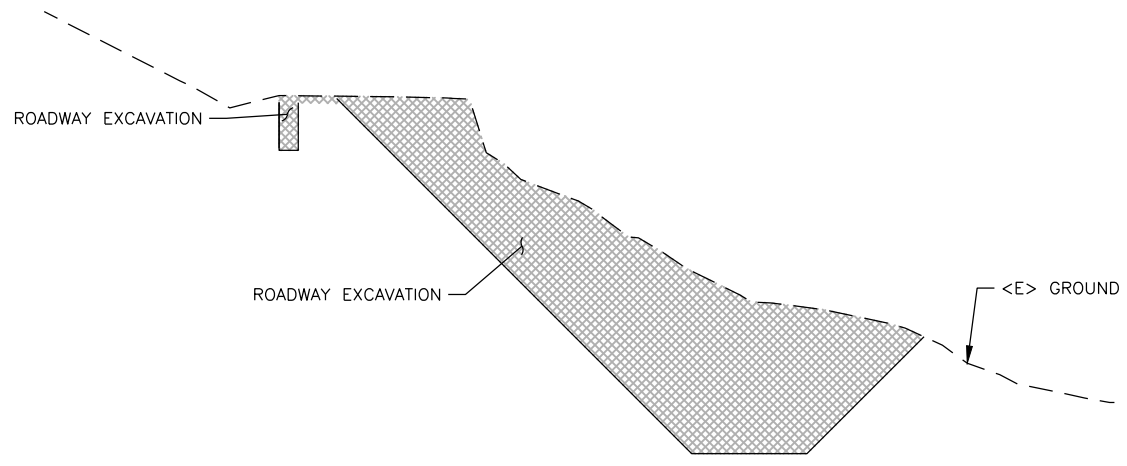
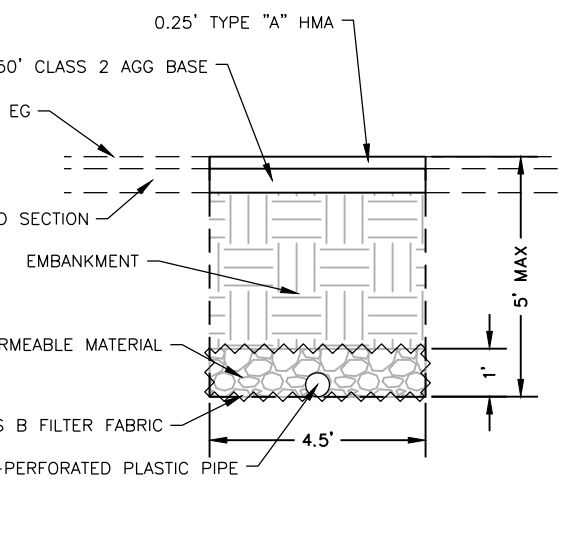
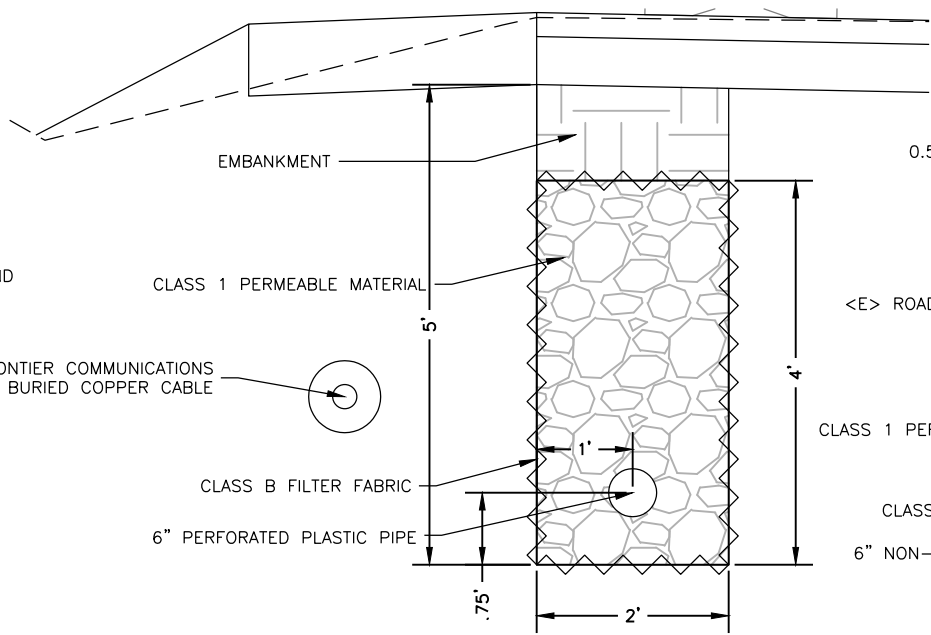
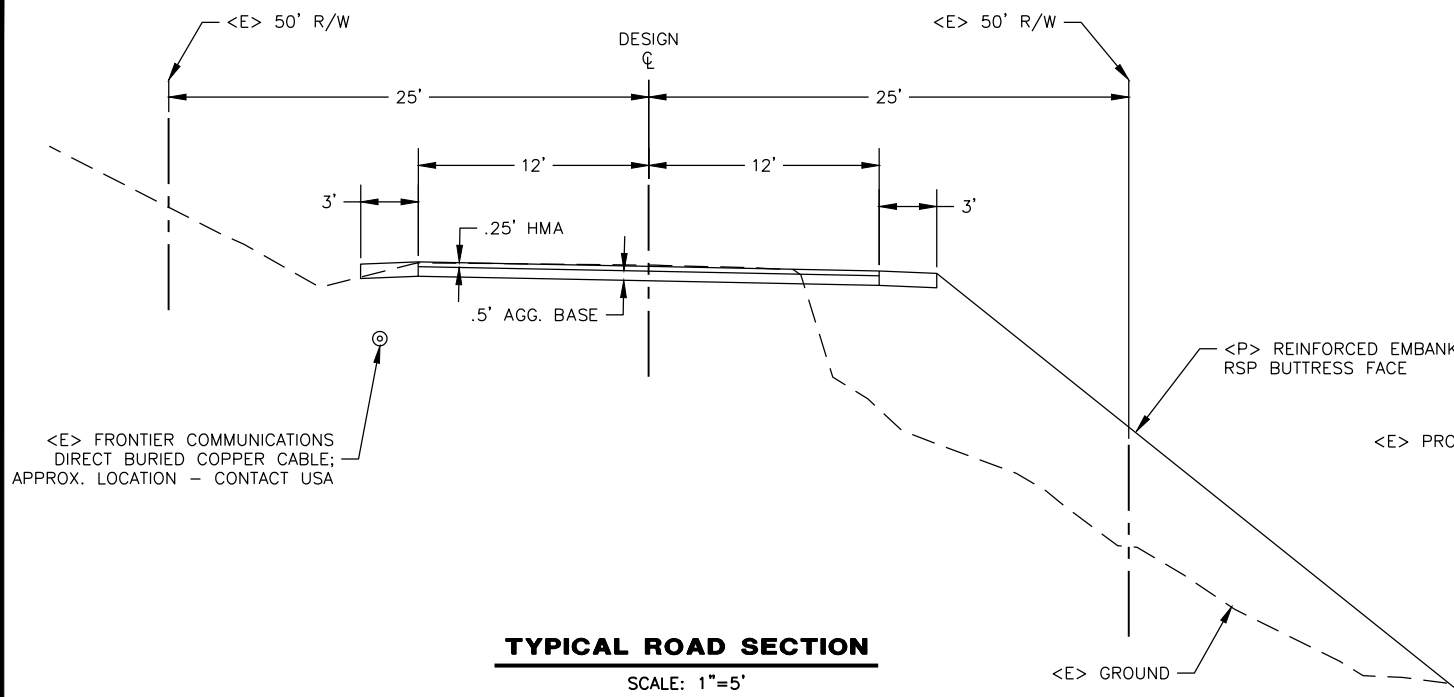
SHEET 16
OF 22





ROAD NAME: MATTOLE ROAD	DESIGN SECTION
ROAD NO: F3C010	ENGINEERING DIVISION
PROJECT NO: ER-32LO(325)PR	DESIGNED BY: RMD/MMS
CONTRACT NO: 217433	DRAWN BY: RMD/MMS
DRAWING FILE NAME: MATTOLE 36.16	REVIEWED BY: JAB
PLOT DATE: 3/2/2021	APPROVED BY: TRS

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 17
STORM DAMAGE REPAIR TO MATTOLE ROAD PM 36.16	OF 22
PM 36.16 TYPICAL SECTIONS	



NOTES

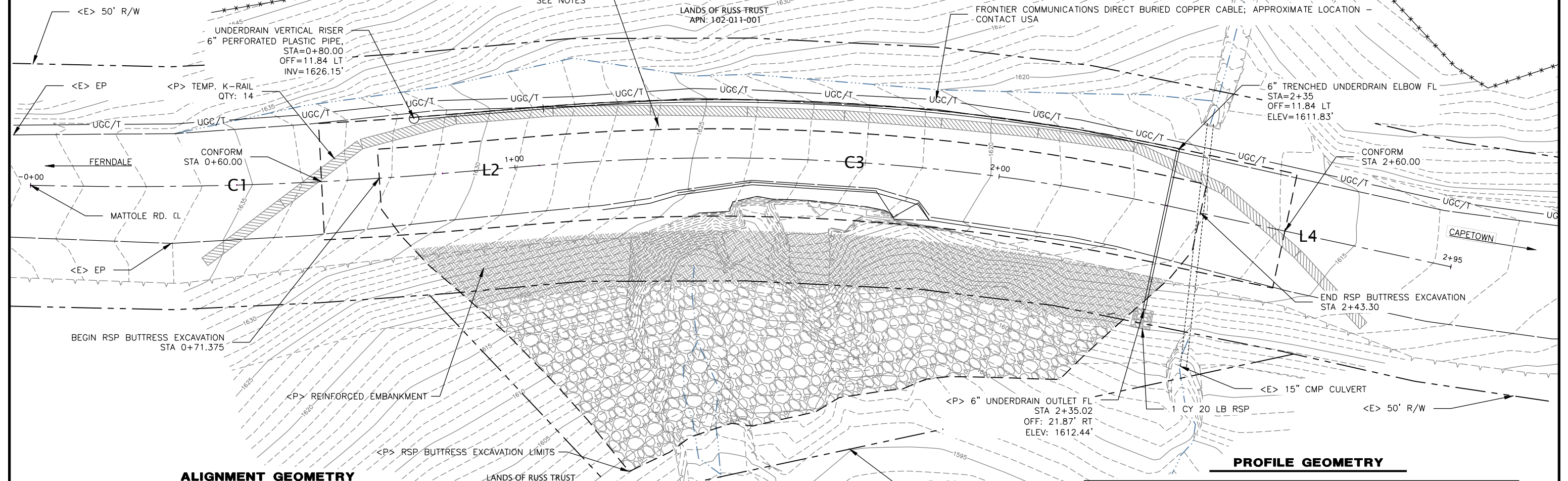
1. UNDERGROUND UTILITIES EXIST IN PROJECT VICINITY. CONTRACTOR TO CONTACT USA PRIOR TO ANY AND ALL EXCAVATION.
2. RSP TOE DEPTH MAY VARY DEPENDING ON THE TYPE AND COMPETENCY OF MATERIALS ENCOUNTERED DURING EXCAVATION.
3. 50' RIGHT OF WAY PER ROAD REGISTRY.



ROAD NAME: MATTOLE ROAD	DESIGN SECTION: ENGINEERING DIVISION
ROAD NO: F3C010	MILE POST: 36.16
PROJECT NO: ER-32LO(325)PR	DESIGNED BY: RMD/MMS
CONTRACT NO: 217433	DRAWN BY: RMD/MMS
DRAWING FILE NAME: MATTOLE 36.16	REVIEWED BY: JAB
PLOT DATE: 3/2/2021	APPROVED BY: TRS

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	
STORM DAMAGE REPAIR TO MATTOLE ROAD PM 36.16	
PM 36.16 PLAN AND PROFILE	

SHEET
18
OF
22

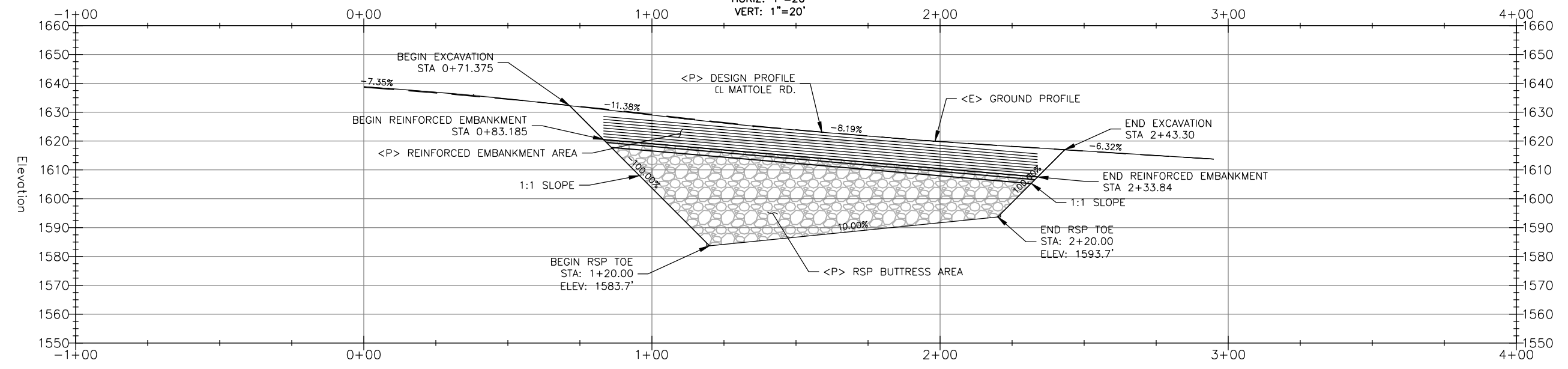


ALIGNMENT GEOMETRY

Segment	Type	Length	Radius	Direction	Start Station	End Station	Delta angle
C1	Curve	85.00'	770.00'		0+00.00'	0+85.00'	6°19'29"
L2	Line	20.00'		S31° 15' 06"W	0+85.00'	1+05.00'	
C3	Curve	130.00'	440.00'		1+05.00'	2+35.00'	16°55'42"
L4	Line	60.00'		S48° 10' 48"W	2+35.00'	2+95.00'	

PROFILE GEOMETRY

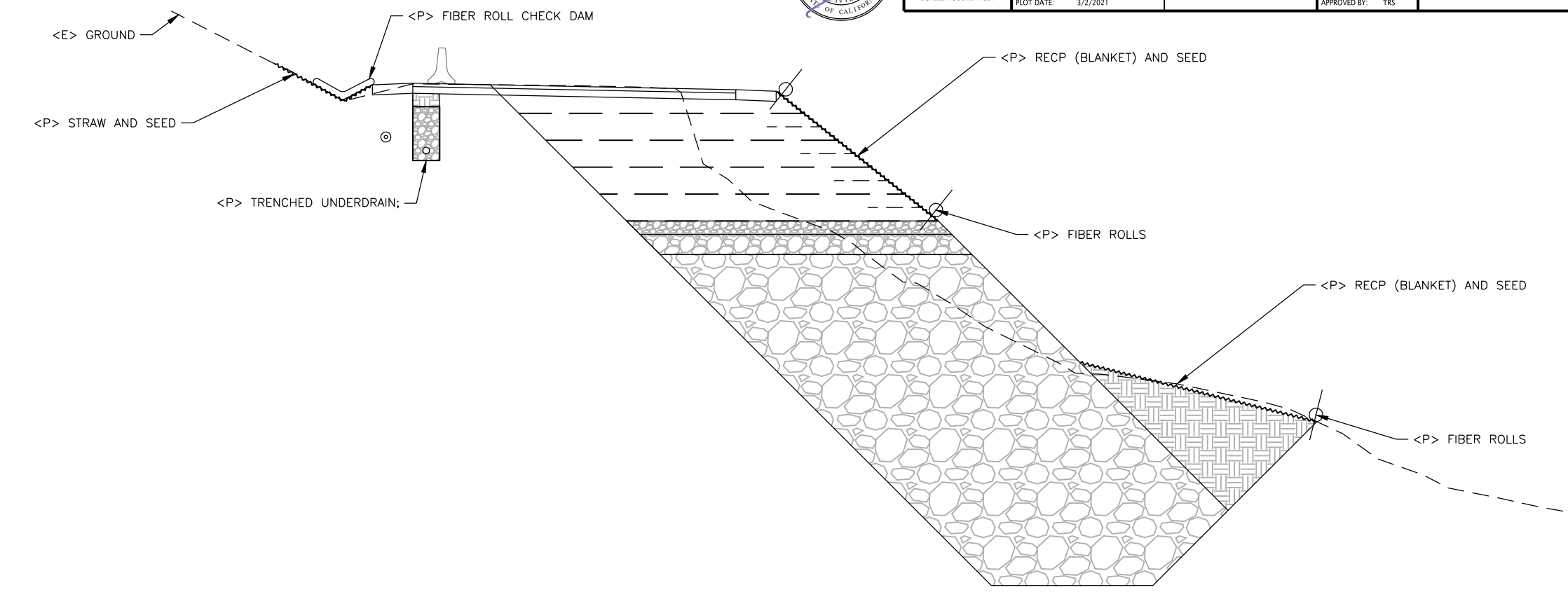
No.	PVI Station	PVI Elevation	Grade In	Grade Out	A (Grade Change)	Profile Curve Type	Profile Curve Length	K Value
1	0+00.00'	1638.85'	-0.07	-0.11	0.04	Crest	58.73'	14.57
2	0+38.08'	1636.05'	-0.07	-0.11	0.04	Crest	58.73'	14.57
3	1+35.21'	1624.99'	-0.11	-0.08	0.03	Sag	47.51'	14.87
4	1+97.64'	1619.88'	-0.08	-0.06	0.02	Sag	43.98'	23.53
5	2+95.00'	1613.73'	-0.06					



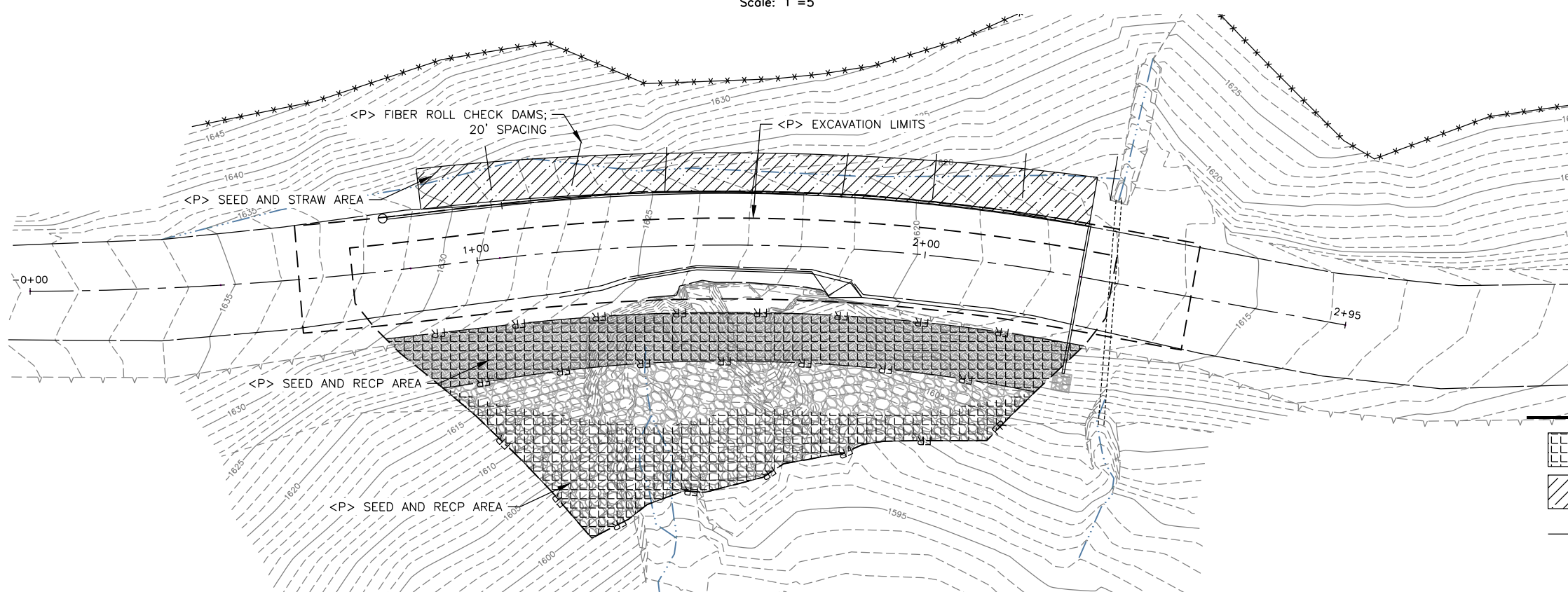


ROAD NAME: MATTOLE ROAD	DESIGN SECTION: ENGINEERING DIVISION
ROAD NO: F3C010	MILE POST: 36.16
PROJECT NO: ER-32LO(325)PR	DESIGNED BY: RMD/MMS
CONTRACT NO: 217433	DRAWN BY: RMD/MMS
DRAWING FILE NAME: MATTOLE 36.16	REVIEWED BY: JAB
PLOT DATE: 3/2/2021	APPROVED BY: TRS

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 19
STORM DAMAGE REPAIR TO MATTOLE ROAD PM 36.16	OF 22
PM 36.16 EROSION CONTROL	



EROSION CONTROL SECTION
Scale: 1"=5'



EROSION CONTROL PLAN
SCALE: 1"=15'

LEGEND

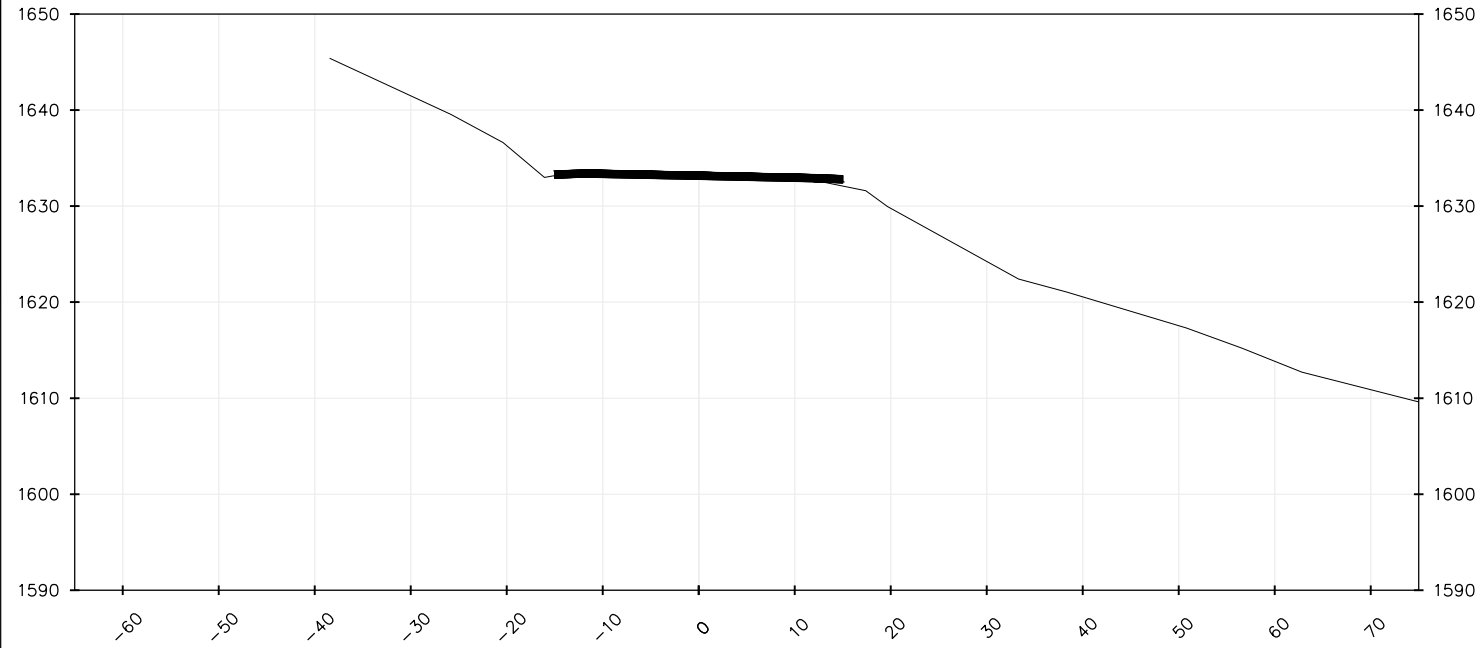
	SEED AND RECP (BLANKET)
	SEED AND STRAW
	FR FIBER ROLL



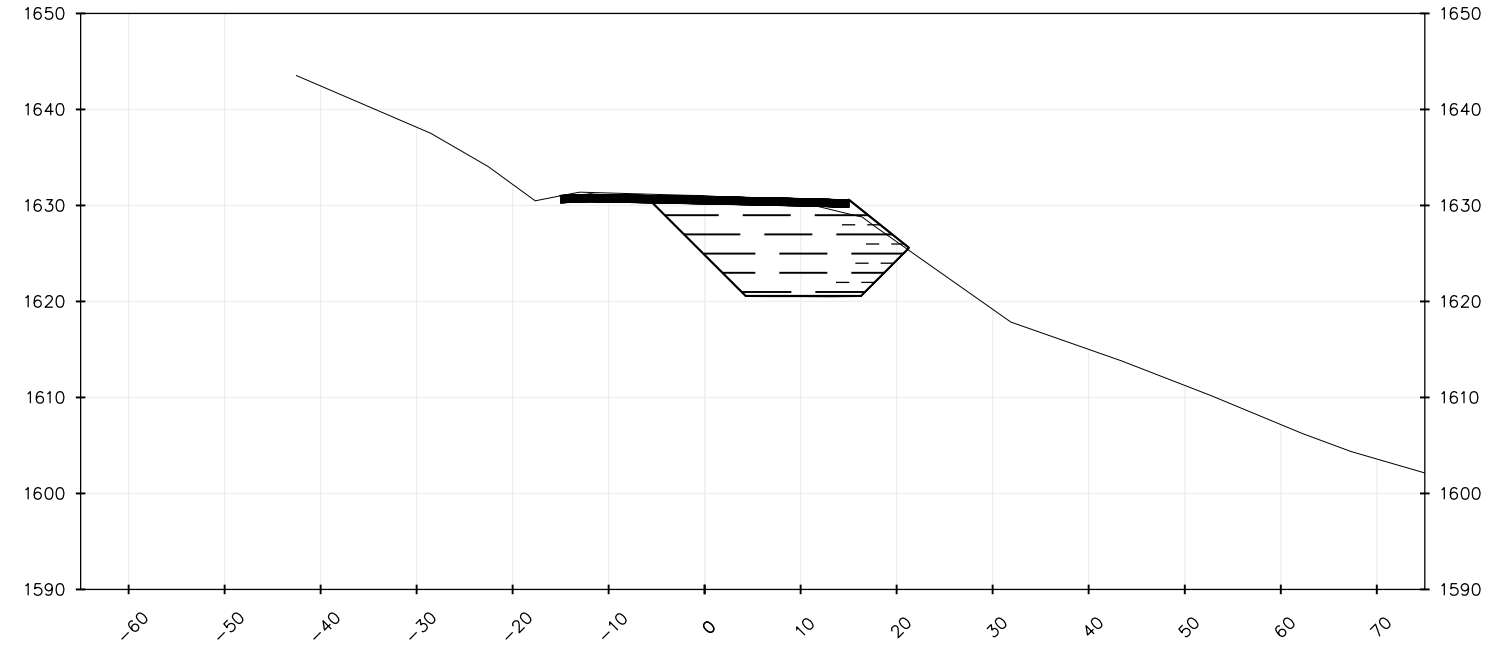
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: MATTOLE ROAD	DESIGN SECTION: ENGINEERING DIVISION	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS STORM DAMAGE REPAIR TO MATTOLE ROAD PM 36.16 PM 36.16 SECTIONS 0+60 TO 1+00
	ROAD NO: F3C010	MILE POST: 36.16	
	PROJECT NO: ER-32LO(325)PR	DESIGNED BY: RMD/MMS	
	CONTRACT NO: 217433	DRAWN BY: RMD/MMS	
	DRAWING FILE NAME: MATTOLE 36.16	REVIEWED BY: JAB	
	PLOT DATE: 3/2/2021	APPROVED BY: TRS	

SHEET
20
OF
22

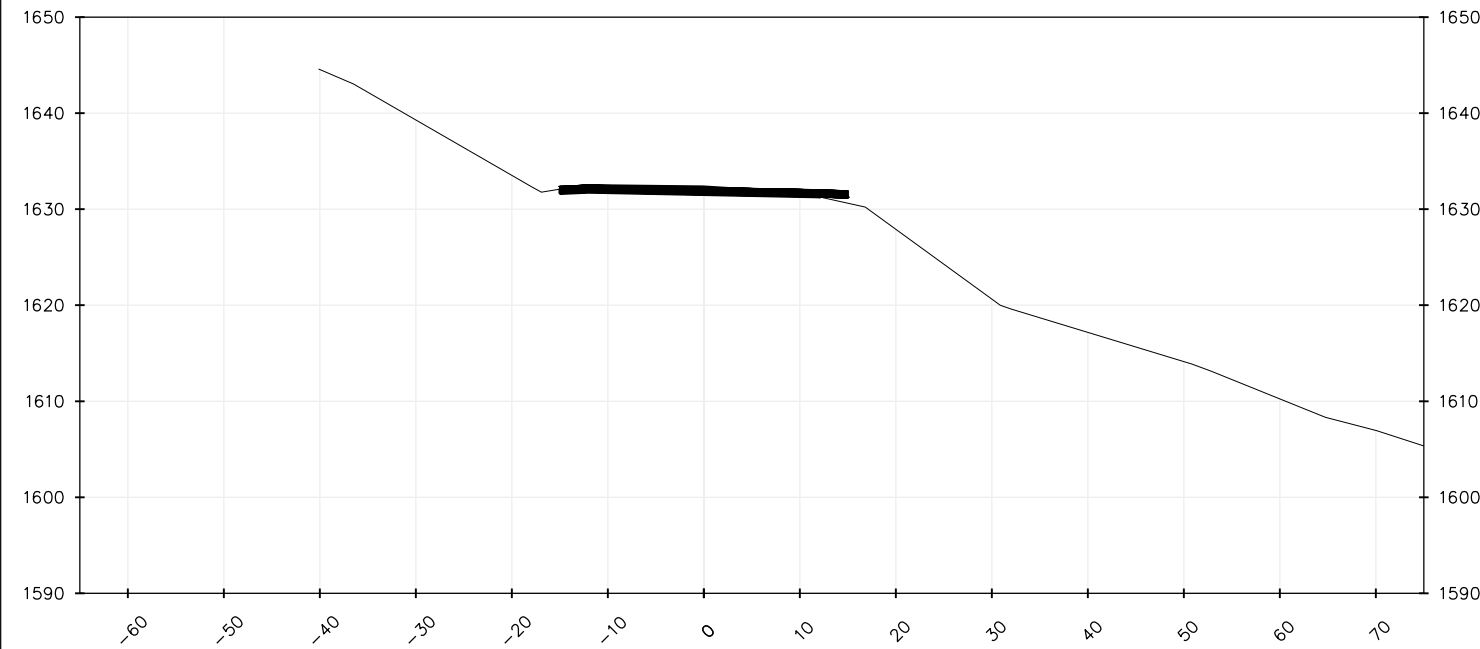
0+60.00



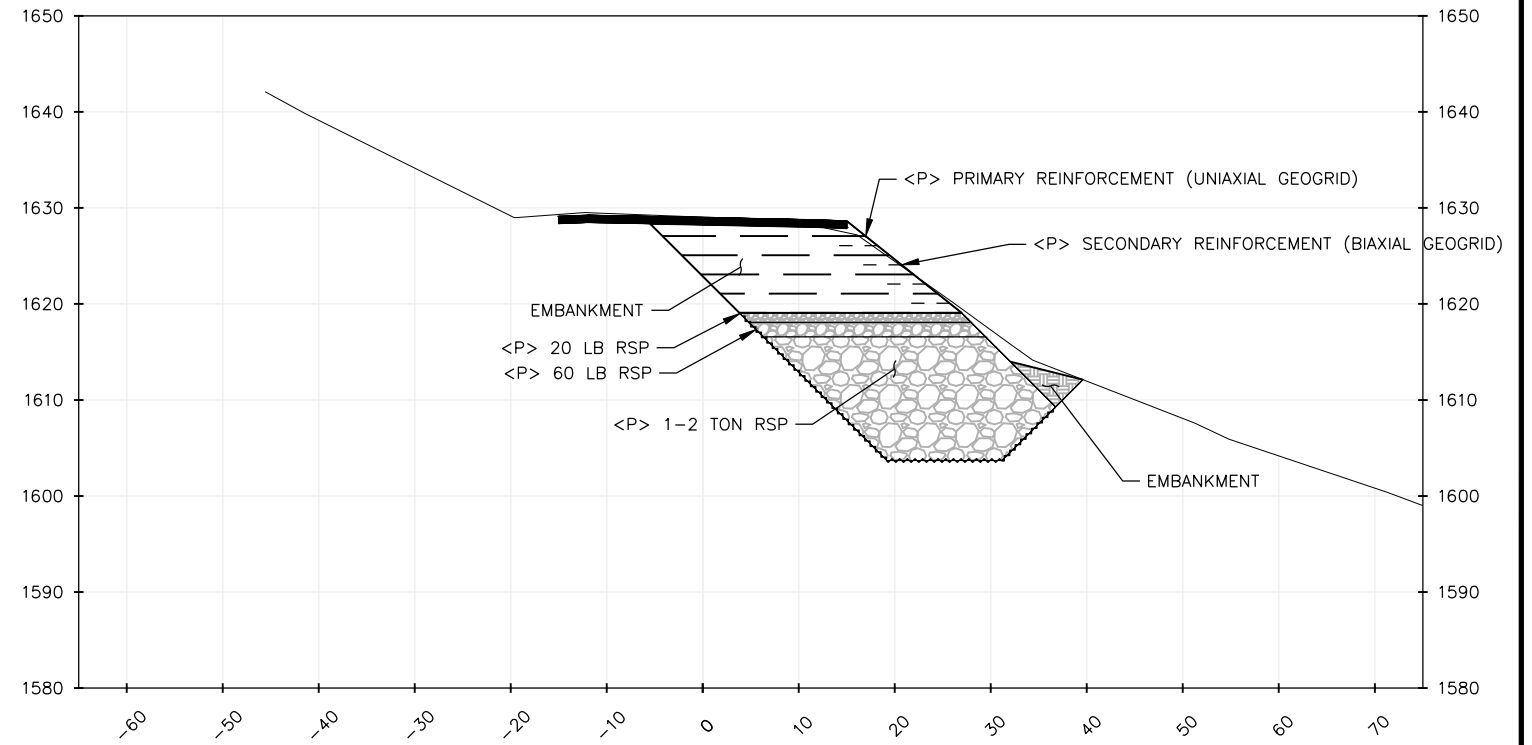
0+83.18



0+71.38



1+00.00



SECTION VIEWS

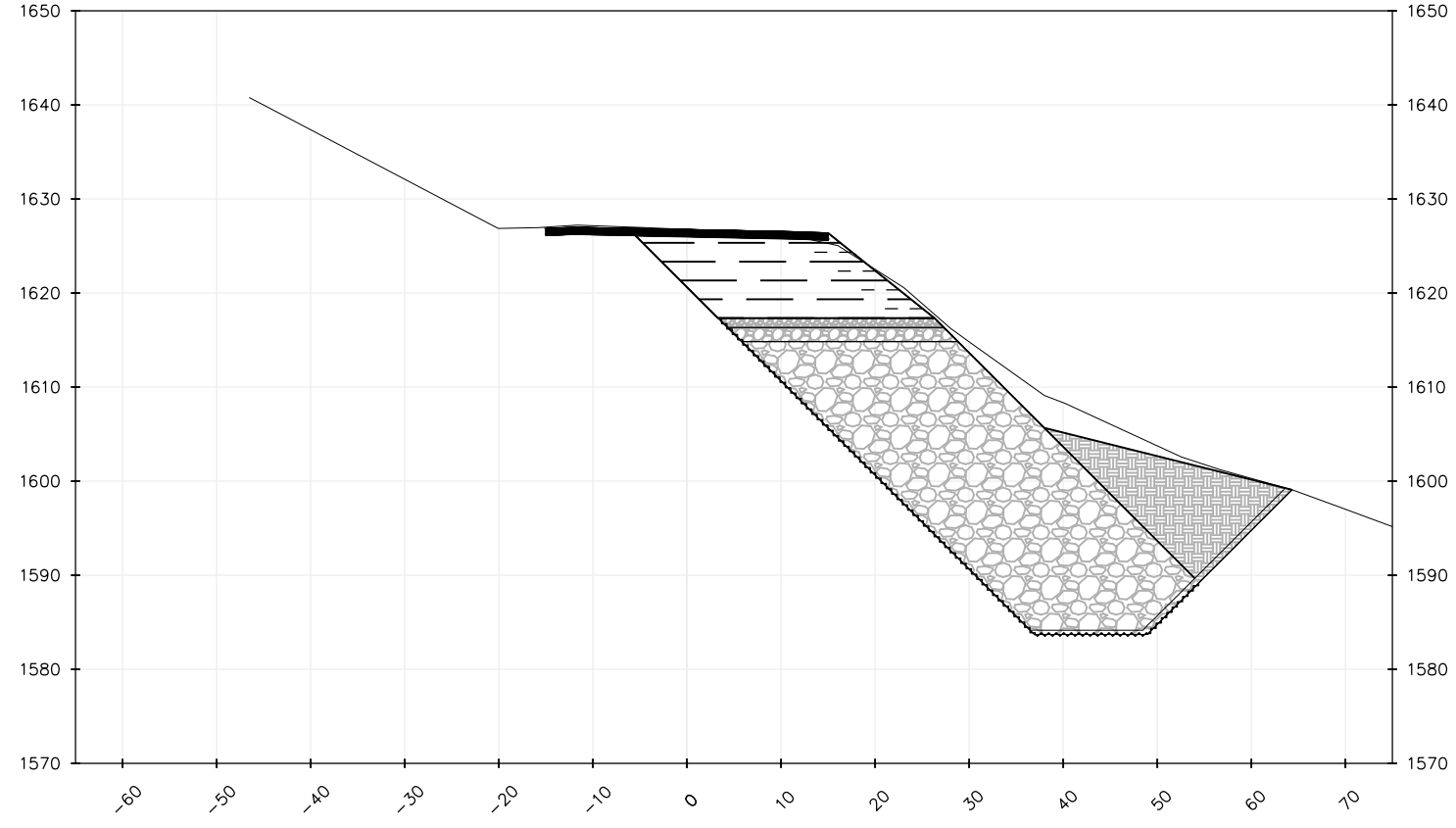
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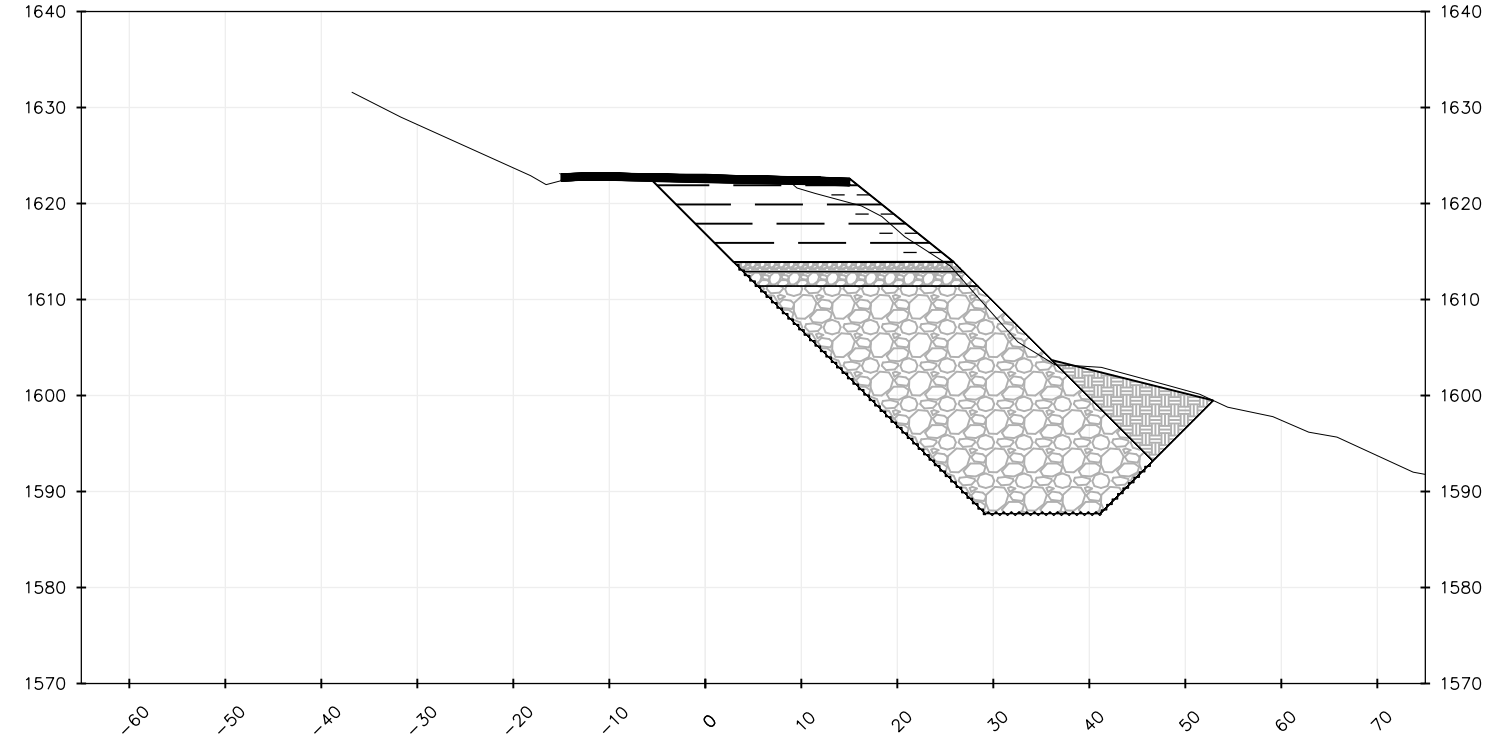
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: MATTOLE ROAD	DESIGN SECTION: ENGINEERING DIVISION	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS STORM DAMAGE REPAIR TO MATTOLE ROAD PM 36.16 MATTOLE ROAD PM 36.16 SECTIONS 1+20 TO 1+80
	ROAD NO: F3C010	MILE POST: 36.16	
	PROJECT NO: ER-32LO(325)PR	DESIGNED BY: RMD/MMS	
	CONTRACT NO: 217433	DRAWN BY: RMD/MMS	
	DRAWING FILE NAME: MATTOLE 36.16	REVIEWED BY: JAB	
	PLOT DATE: 3/2/2021	APPROVED BY: TRS	

SHEET
21
OF
22

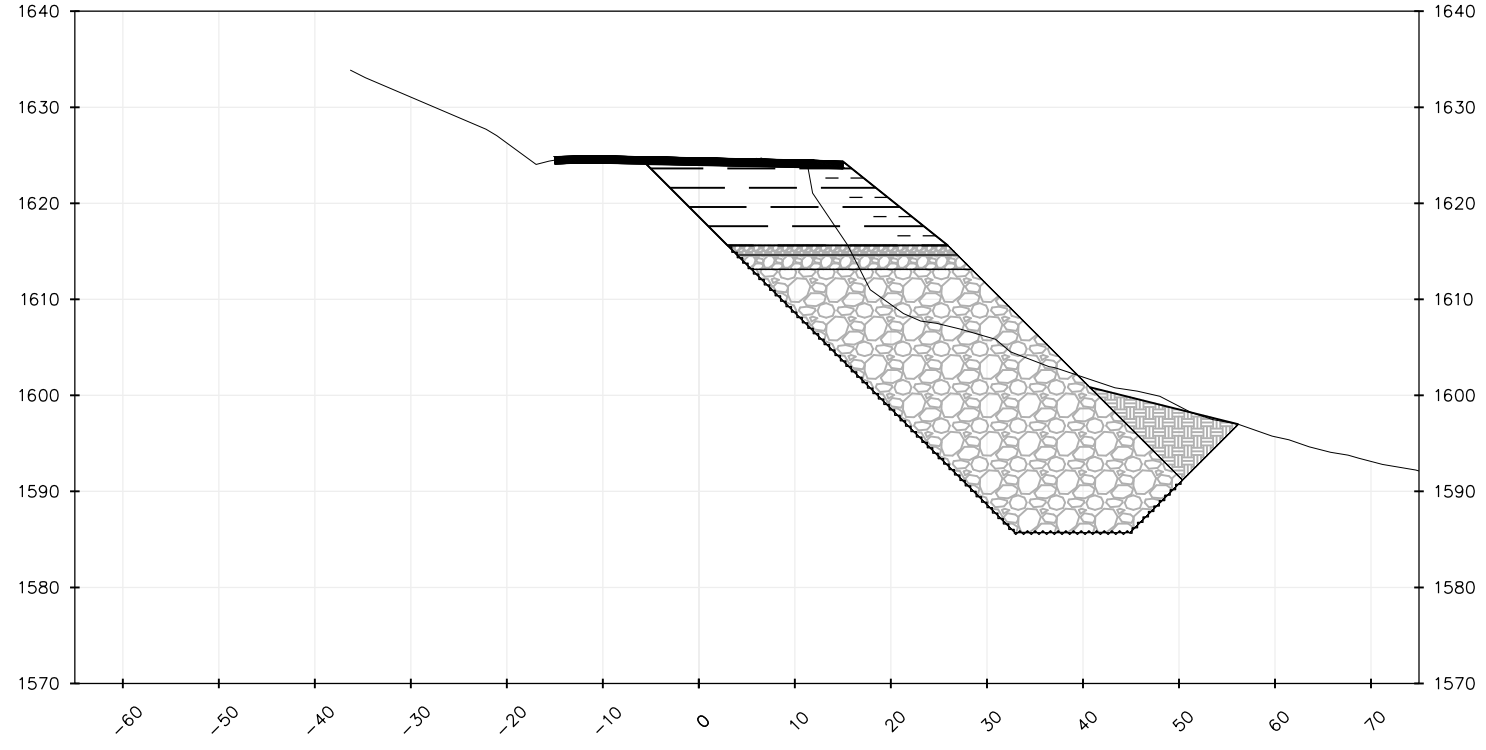
1+20.00



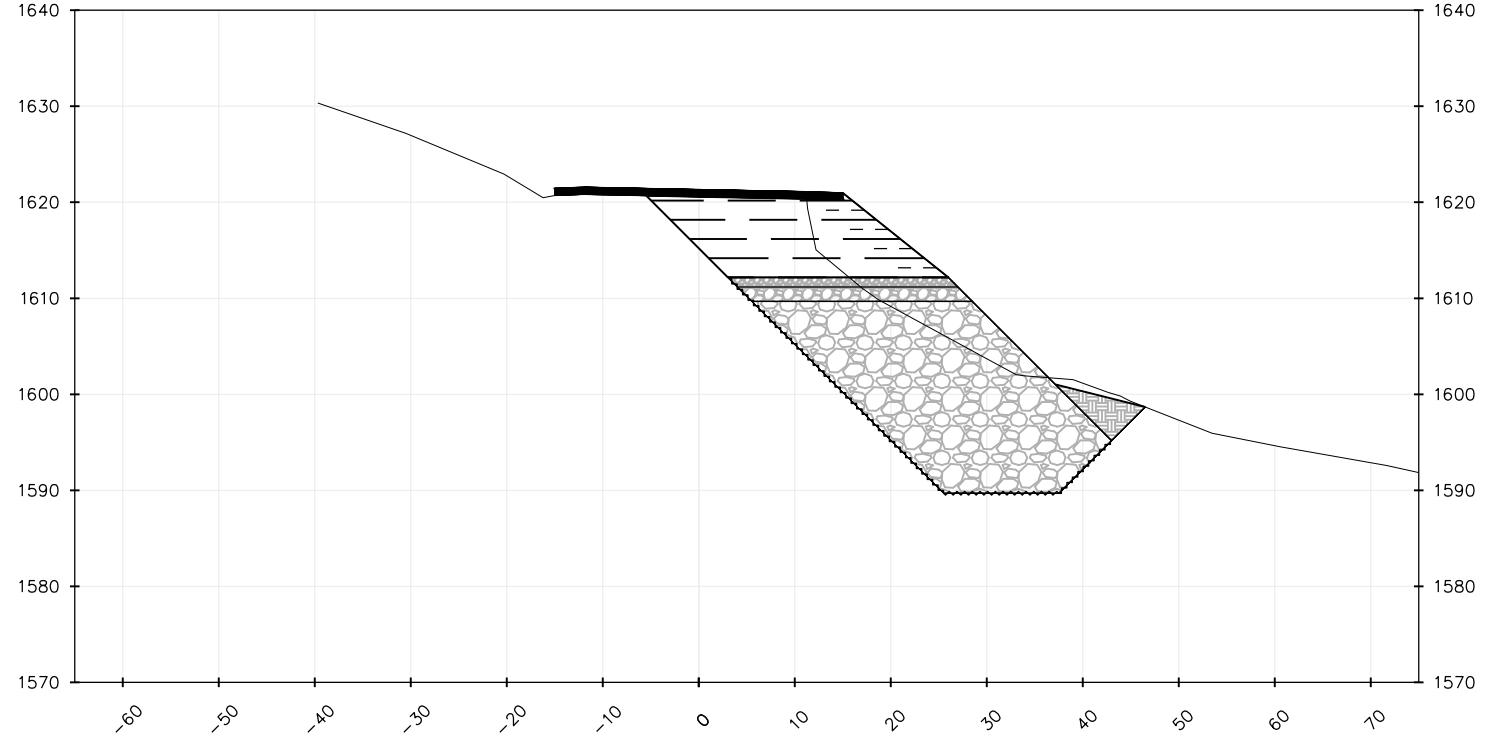
1+60.00



1+40.00



1+80.00

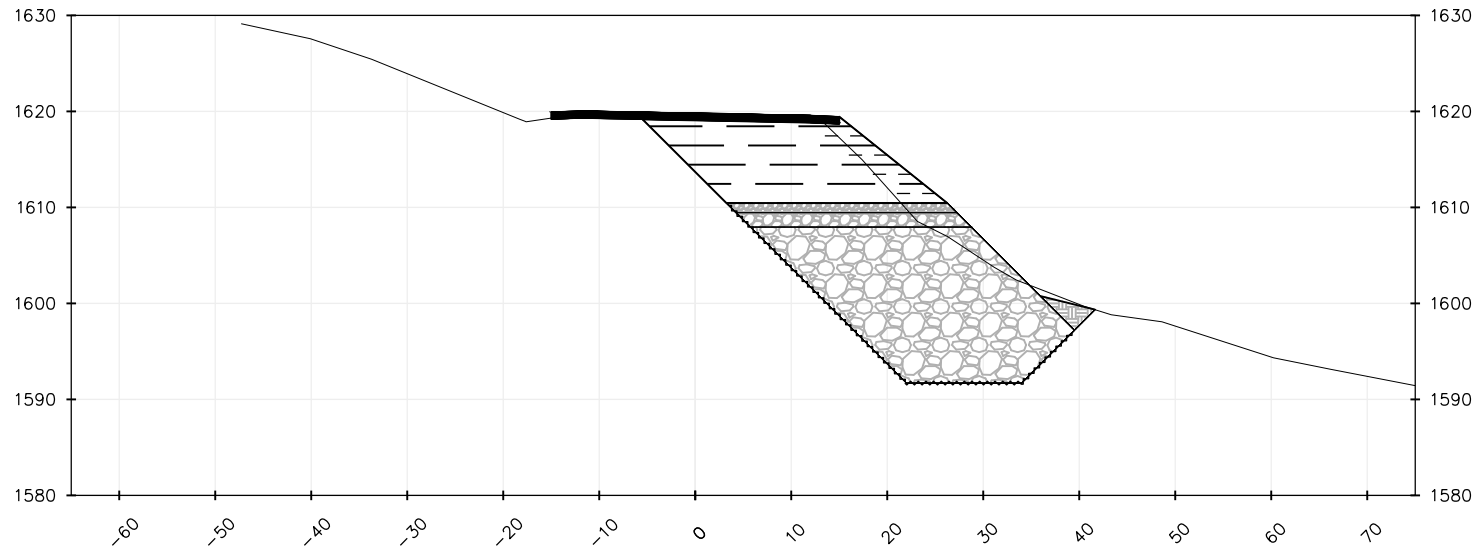


SECTION VIEWS
Scale: 1"=10'

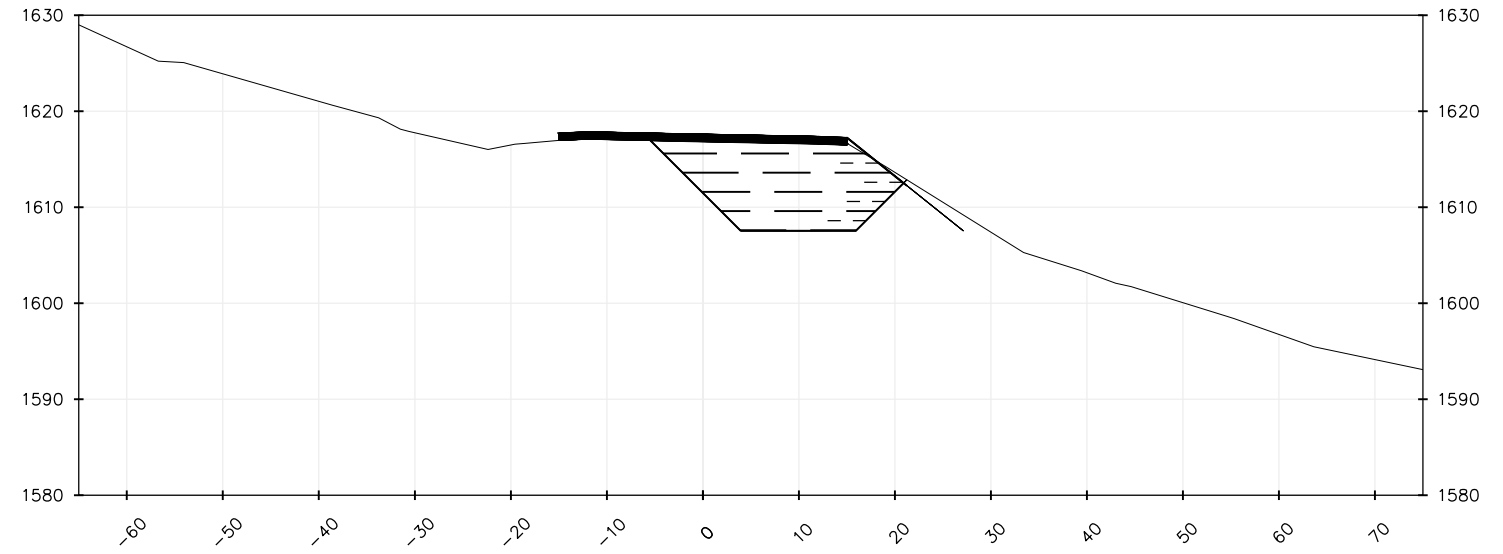


BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: MATTOLE ROAD	DESIGN SECTION: ENGINEERING DIVISION	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 22 OF 22
	ROAD NO: F3C010	MILE POST: 36.16		
	PROJECT NO: ER-32LO(325)PR	DESIGNED BY: RMD/MMS	PM 36.16 SECTIONS 2+00 TO 2+60	
	CONTRACT NO: 217433	DRAWN BY: RMD/MMS		
DRAWING FILE NAME: MATTOLE 36.16	REVIEWED BY: JAB	APPROVED BY: TRS		
PLOT DATE: 3/2/2021				

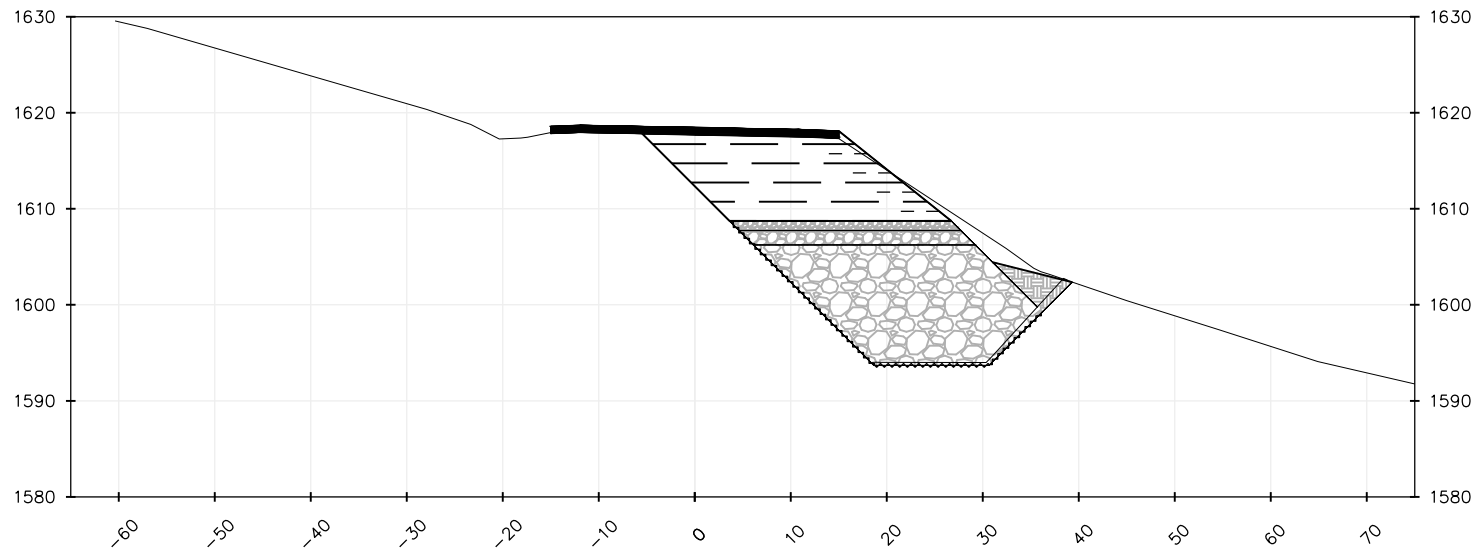
2+00.00



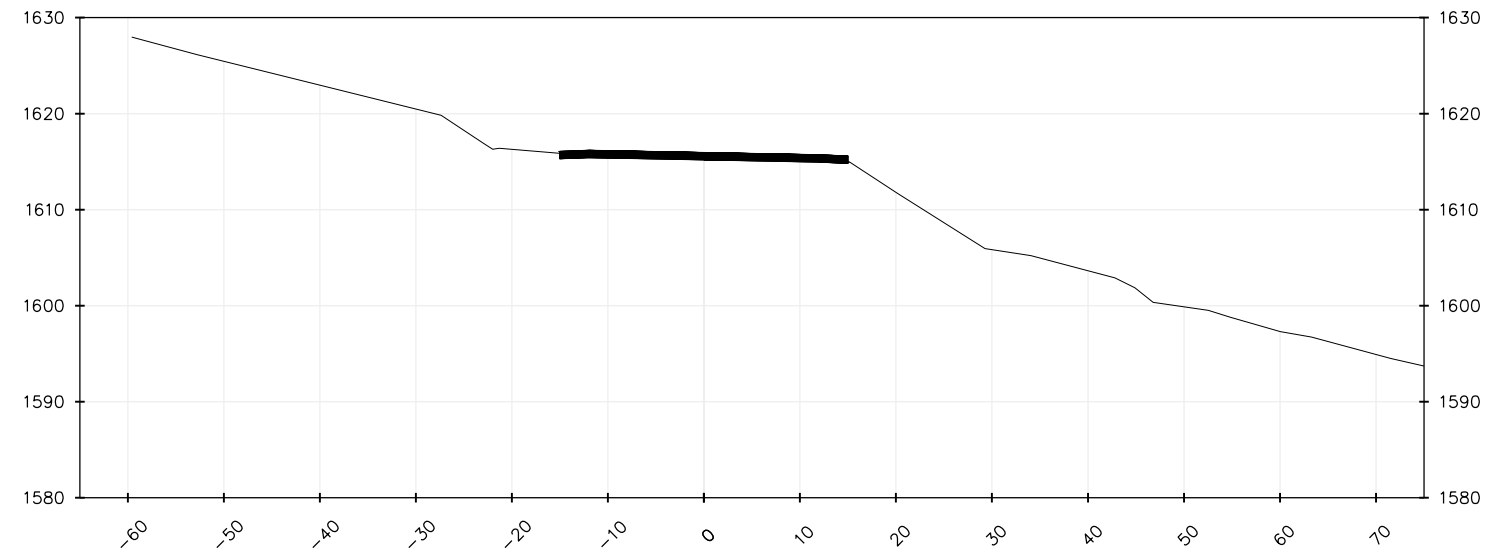
2+33.84



2+20.00



2+60.00



SECTION VIEWS

Scale: 1"=10'