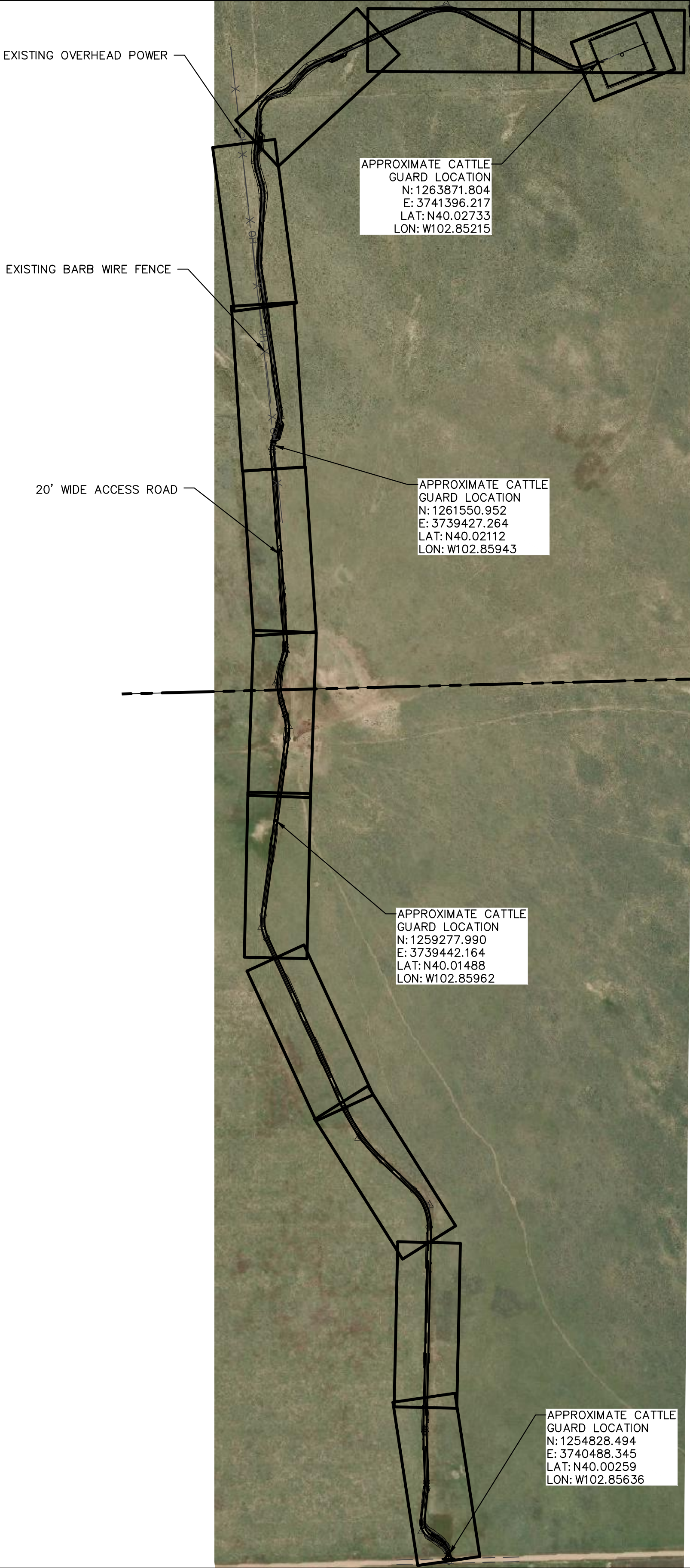


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LINE AND CURVE TABLE : RD-01						
Number	Radius	Length	Line/Chord Direction	START	END	CURVE PI
L1		25.40	N1° 25' 34.78"W	N:1254792.564 E:3740489.792	N:1254817.959 E:3740489.159	
C1	100.00	100.61	N30° 14' 53.90"W			N:1254872.968 E:3740487.790
L2		70.88	N59° 04' 13.02"W	N:1254901.250 E:3740440.589	N:1254937.684 E:3740379.785	
C2	100.00	114.05	N26° 23' 46.99"W			N:1254970.648 E:3740324.770
L3		188.94	N6° 16' 39.04"E	N:1255034.398 E:3740331.783	N:1255222.201 E:3740352.442	
C3	350.00	48.38	N2° 19' 04.41"E			N:1255246.282 E:3740355.091
L4		309.17	N1° 38' 30.21"W	N:1255270.499 E:3740354.397	N:1255579.545 E:3740345.539	
C4	350.00	17.31	N0° 13' 28.89"W			N:1255588.200 E:3740345.291
L5		1218.76	N1° 11' 32.43"E	N:1255596.856 E:3740345.471	N:1256815.354 E:3740370.832	
C5	300.00	251.12	N22° 47' 17.24"W			N:1256948.771 E:3740373.609
L7		263.74	N46° 46' 06.91"W	N:1257040.174 E:3740276.381	N:1257220.824 E:3740084.220	
C6	1000.00	385.11	N35° 44' 09.75"W			N:1257354.368 E:3739942.167
L8		1138.29	N24° 42' 12.58"W	N:1257531.495 E:3739860.684	N:1258565.609 E:3739384.968	
C7	250.00	141.47	N8° 29' 33.35"W			N:1258631.640 E:3739354.592
L9		1080.26	N7° 43' 05.88"E	N:1258703.665 E:3739364.354	N:1259774.133 E:3739509.435	
C8	350.00	146.03	N4° 14' 04.92"W			N:1259847.557 E:3739519.386
L10		80.82	N16° 11' 15.72"W	N:1259918.714 E:3739498.730	N:1259996.330 E:3739476.198	
C9	400.00	232.46	N0° 27' 40.89"E			N:1260111.206 E:3739442.851
L11		58.12	N17° 06' 37.50"E	N:1260225.529 E:3739478.044	N:1260281.078 E:3739495.144	
C10	150.00	54.61	N6° 40' 47.22"E			N:1260307.469 E:3739503.268
L12		585.07	N3° 45' 03.06"W	N:1260335.023 E:3739501.462	N:1260918.836 E:3739463.188	
L13		587.13	N4° 07' 44.61"W	N:1260918.836 E:3739463.188	N:1261504.445 E:3739420.913	

LINE AND CURVE TABLE : RD-01						
Number	Radius	Length	Line/Chord Direction	START	END	CURVE PI
C11	200.00	68.81	N5° 43' 39.30"E			N:1261539.104 E:3739418.411
L14		118.41	N15° 35' 03.21"E	N:1261572.576 E:3739427.746	N:1261686.634 E:3739459.558	
C12	200.00	82.42	N3° 46' 43.37"E			N:1261726.900 E:3739470.788
L15		860.69	N8° 01' 36.47"W	N:1261768.293 E:3739464.951	N:1262620.553 E:3739344.767	
C13	300.00	59.51	N2° 20' 38.24"W			N:1262650.113 E:3739340.599
L16		358.52	N3° 20' 19.99"E	N:1262679.916 E:3739342.337	N:1263037.829 E:3739363.218	
C14	300.00	97.01	N5° 55' 30.51"W			N:1263086.680 E:3739366.068
L17		86.14	N15° 11' 21.01"W	N:1263133.904 E:3739353.247	N:1263217.038 E:3739330.677	
C15	300.00	107.77	N4° 53' 53.71"W			N:1263269.606 E:3739316.406
L18		160.94	N5° 23' 33.59"E	N:1263323.835 E:3739321.525	N:1263484.066 E:3739336.650	
C16	300.00	38.00	N1° 45' 48.89"E			N:1263503.009 E:3739338.439
L19		6.23	N1° 51' 55.80"W	N:1263522.026 E:3739337.819	N:1263528.257 E:3739337.616	
C17	150.00	200.98	N36° 31' 04.49"E			N:1263647.012 E:3739333.748
L20		19.17	N74° 54' 04.79"E	N:1263677.962 E:3739448.464	N:1263682.954 E:3739466.968	
C18	150.00	90.06	N57° 42' 02.42"E			N:1263695.050 E:3739511.800
L21		71.22	N40° 30' 00.06"E	N:1263730.359 E:3739541.957	N:1263784.512 E:3739588.208	
C19	300.00	128.90	N52° 48' 34.08"E			N:1263834.290 E:3739630.722
L22		718.69	N65° 07' 08.09"E	N:1263861.833 E:3739690.109	N:1264164.213 E:3740342.094	
C20	300.00	271.66	S88° 56' 20.48"E			N:1264225.617 E:3740474.492
L23		691.53	S62° 59' 49.05"E	N:1264159.352 E:3740604.526	N:1263845.372 E:3741220.666	
C21	118.01	100.00	S87° 16' 22.13"E			N:1263821.207 E:3741268.087
L24		408.03	N68° 27' 04.78"E	N:1263840.755 E:3741317.591	N:1263990.621 E:3741697.101	



Earthwork Volume Summary						
Name	Cut Factor	Fill Factor	2d Area (Sq. Ft.)	Cut (Cu. Yd.)	Fill (Cu. Yd.)	Net (Cu. Yd.)
Vol_Dirt	1.00	1.15	456,331	7,563	14,372	(6,809)

REFERENCE DRAWINGS	
-	-
DWG. NO.	DESCRIPTION

REVISIONS									
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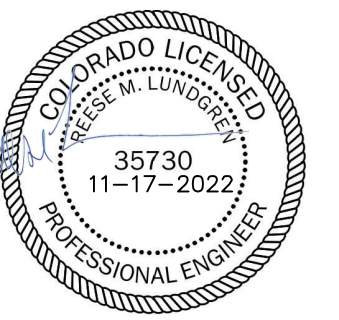
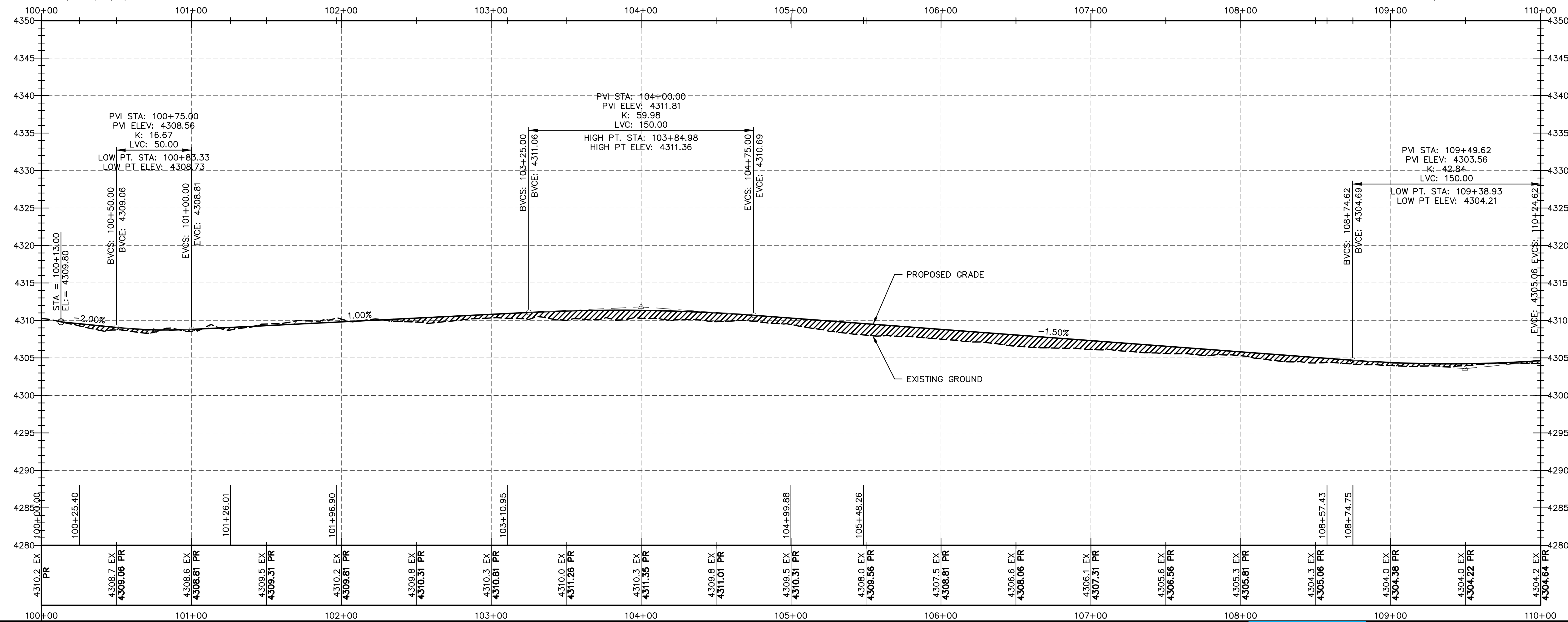




Washington County, Colorado

DENOVA CIVIL
OVERALL SITE PLAN

SCALE: 1" = 500' DWG. NUMBER: 3671-C-2000 REV: 0

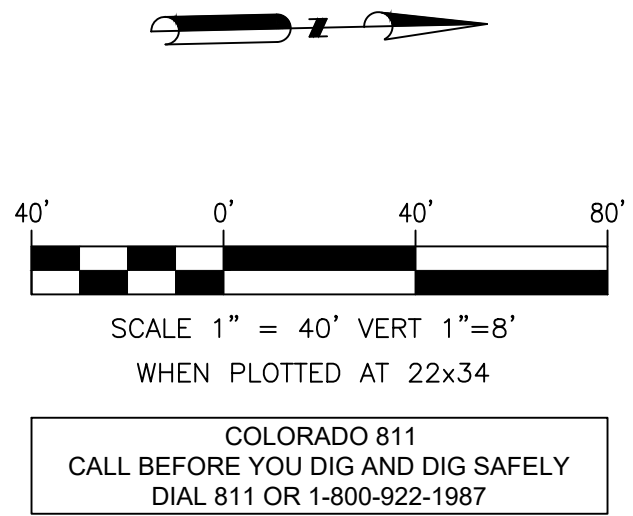
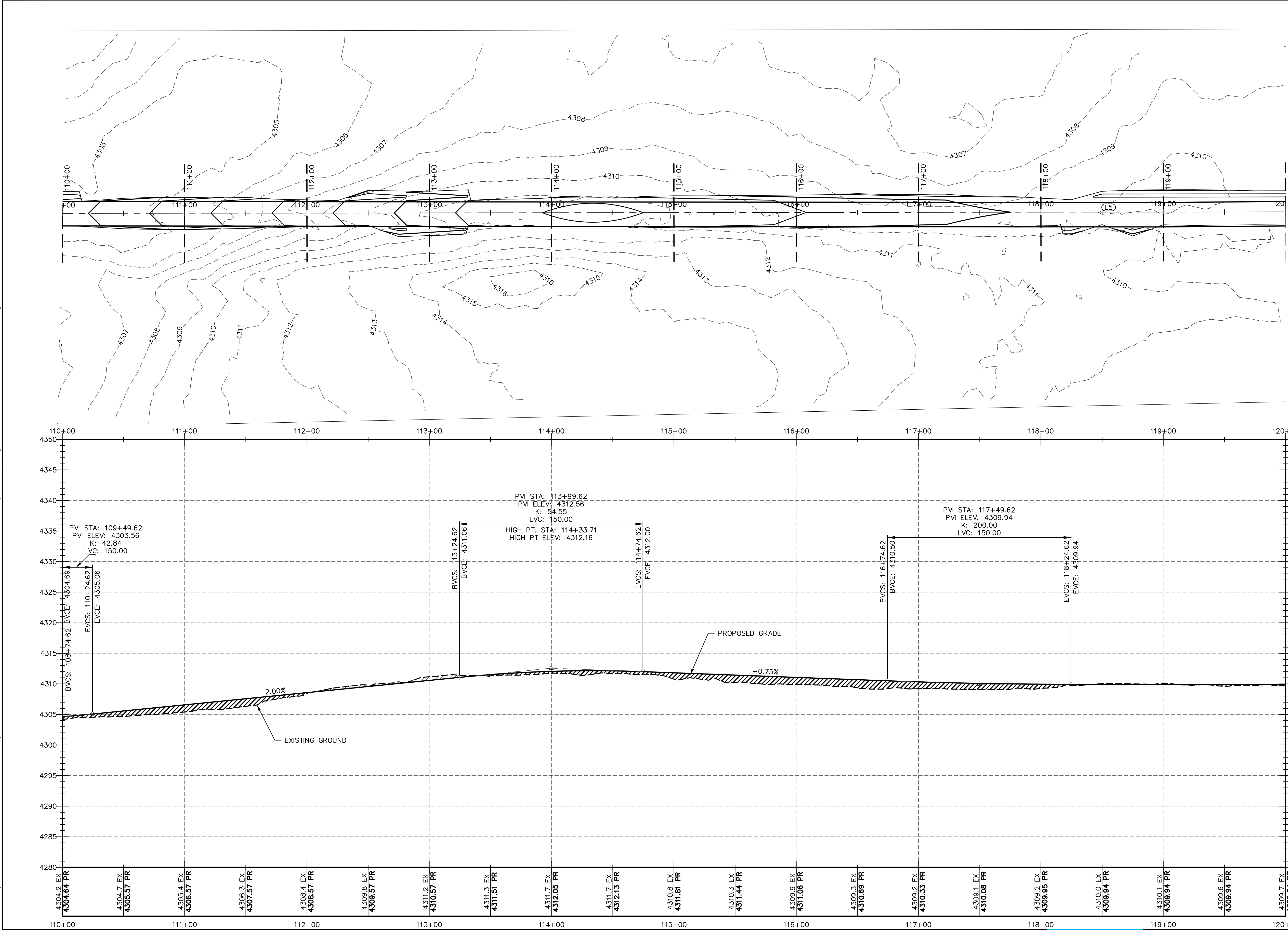




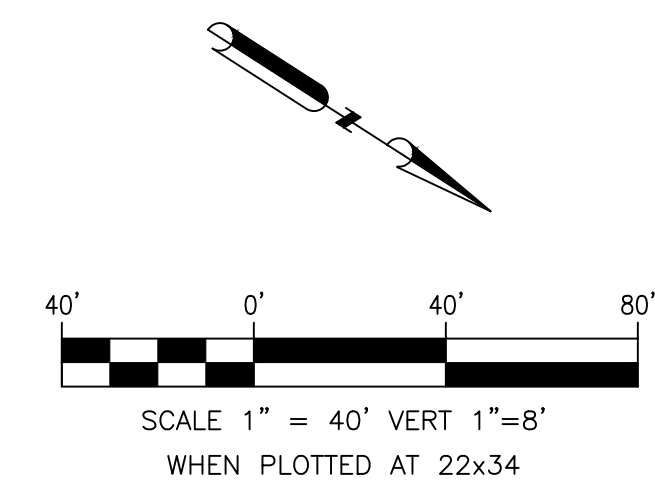
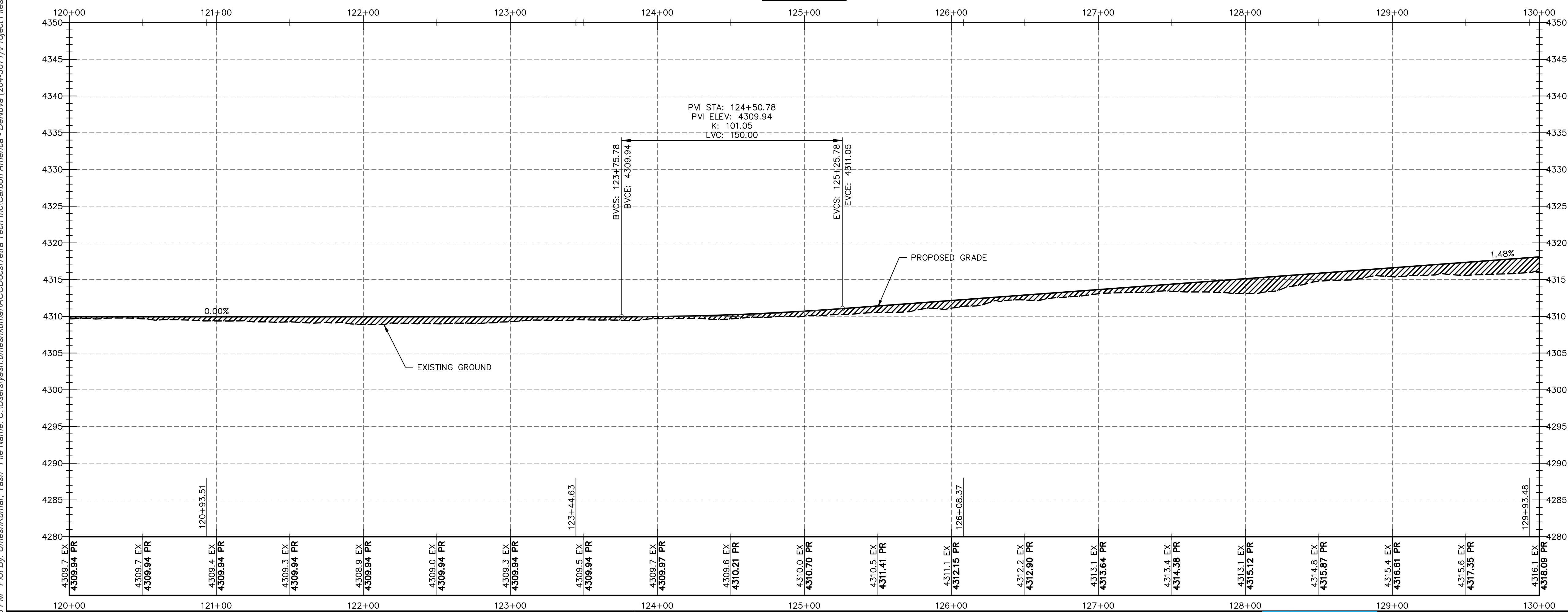
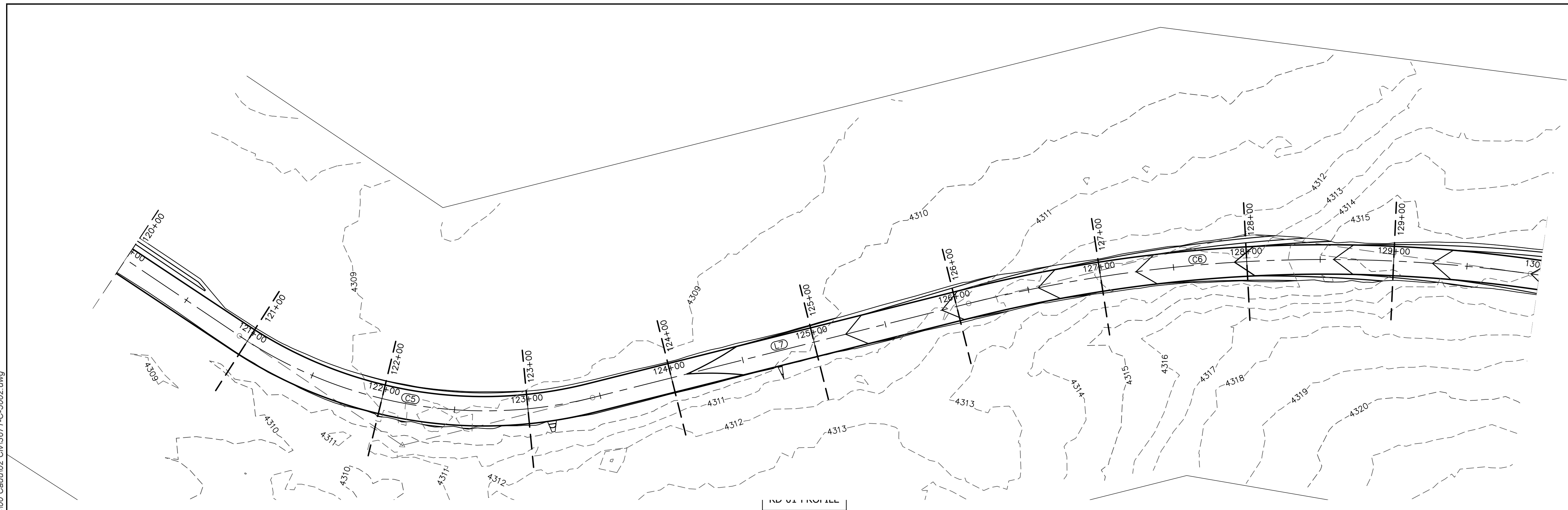
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DWG. NO.	DESCRIPTION	NO.		DESCRIPTION				BY	DATE	CHK	DATE	APP	DATE				
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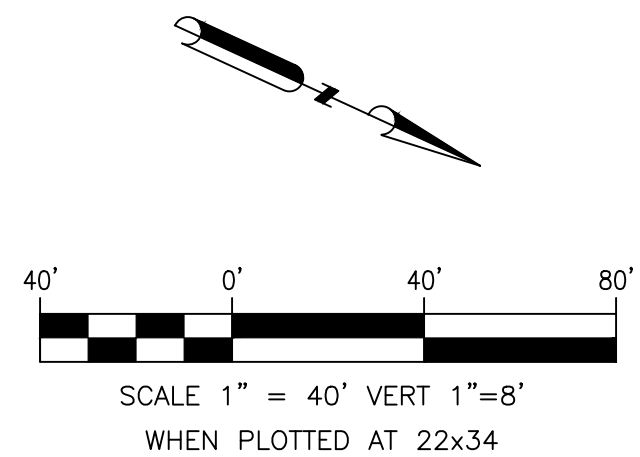
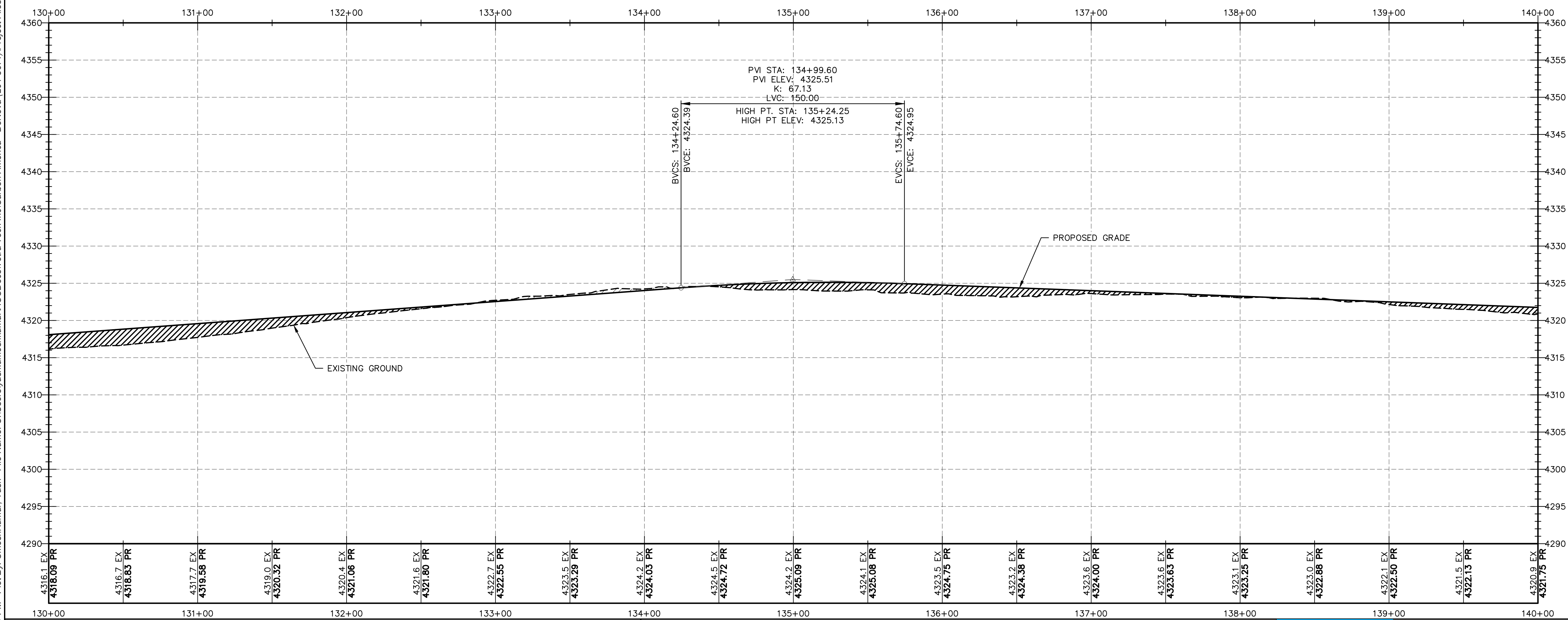
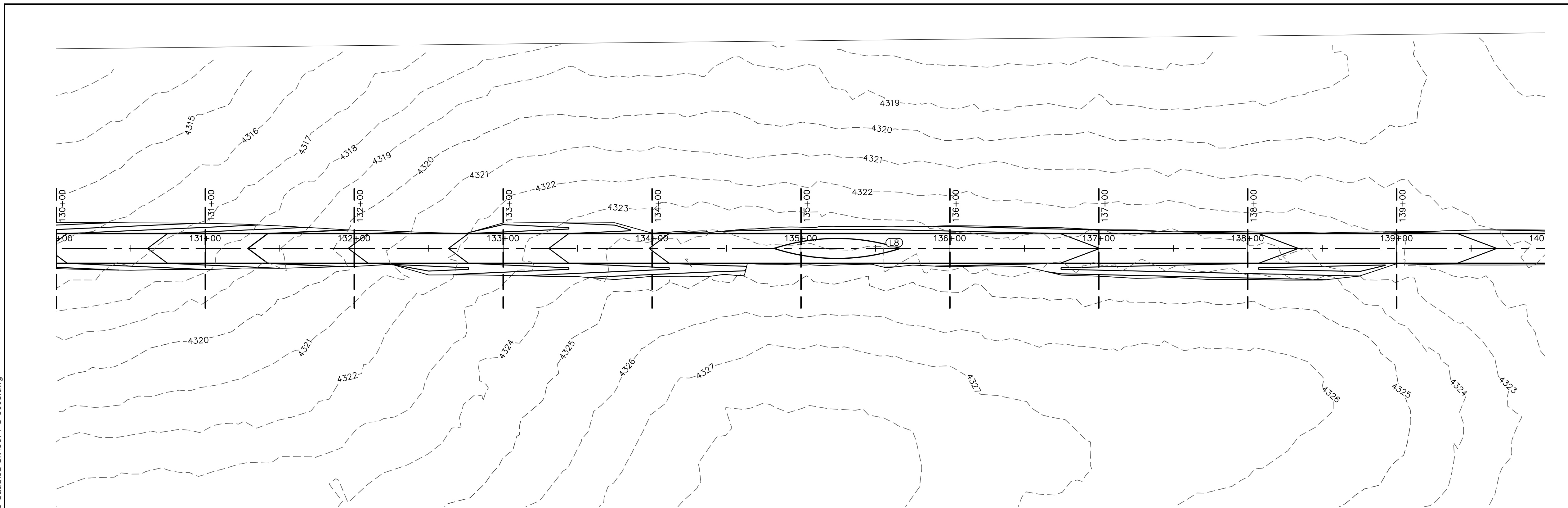


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REFERENCE DRAWINGS				REVISIONS										



	Washington County, Colorado		
	DENOVA CIVIL PLAN & PROFILE STA 130+00 TO 140+00		
 TETRA TECH ROONEY (303) 792-5911	SCALE: 1" = 40'	DWG. NUMBER: 3671-C-5002	REV: 0



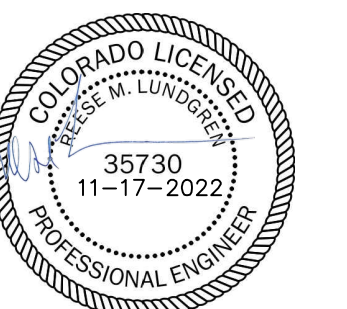
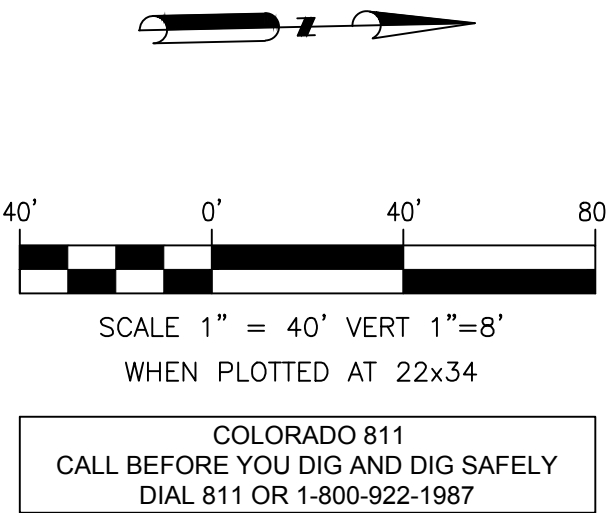
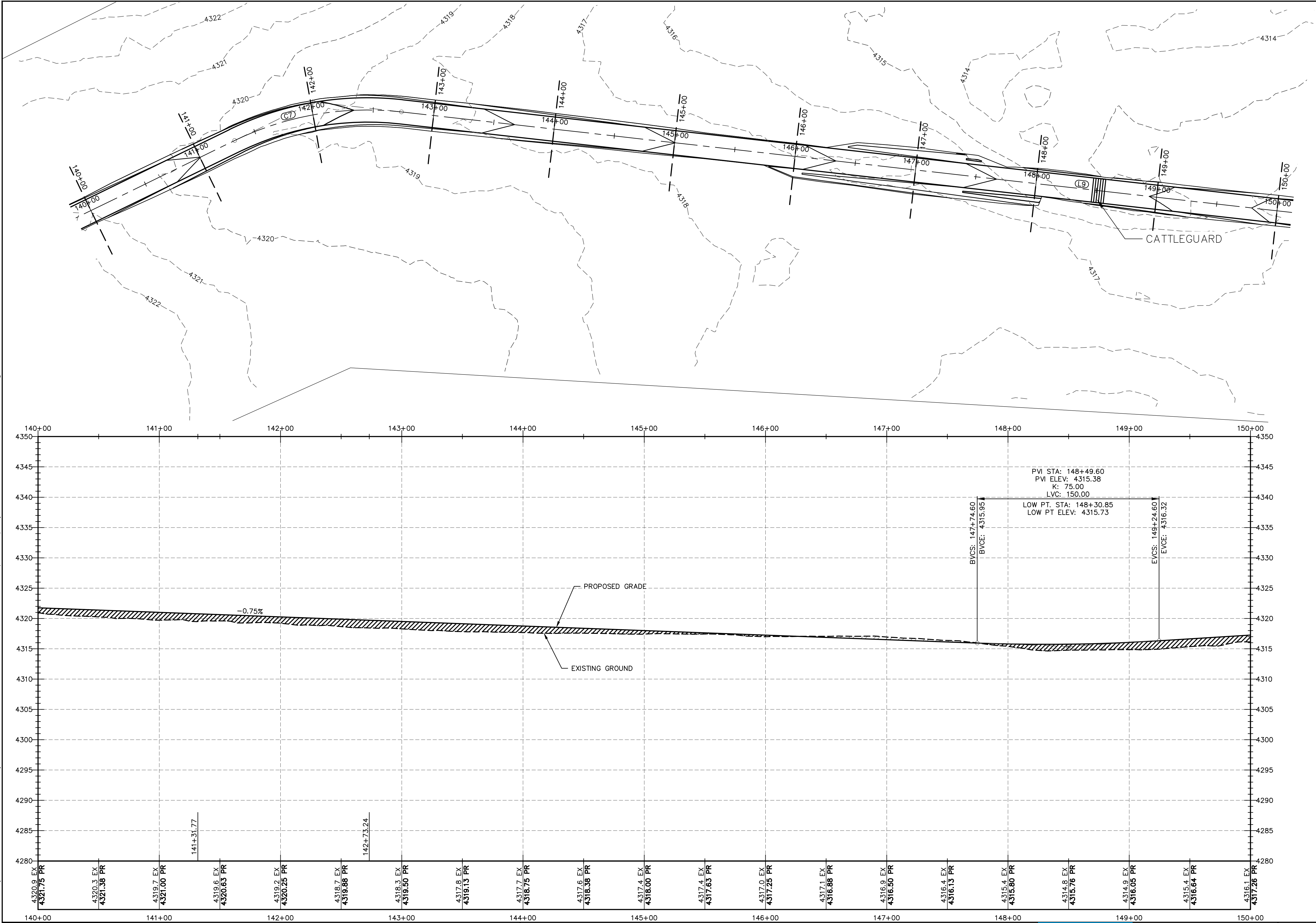
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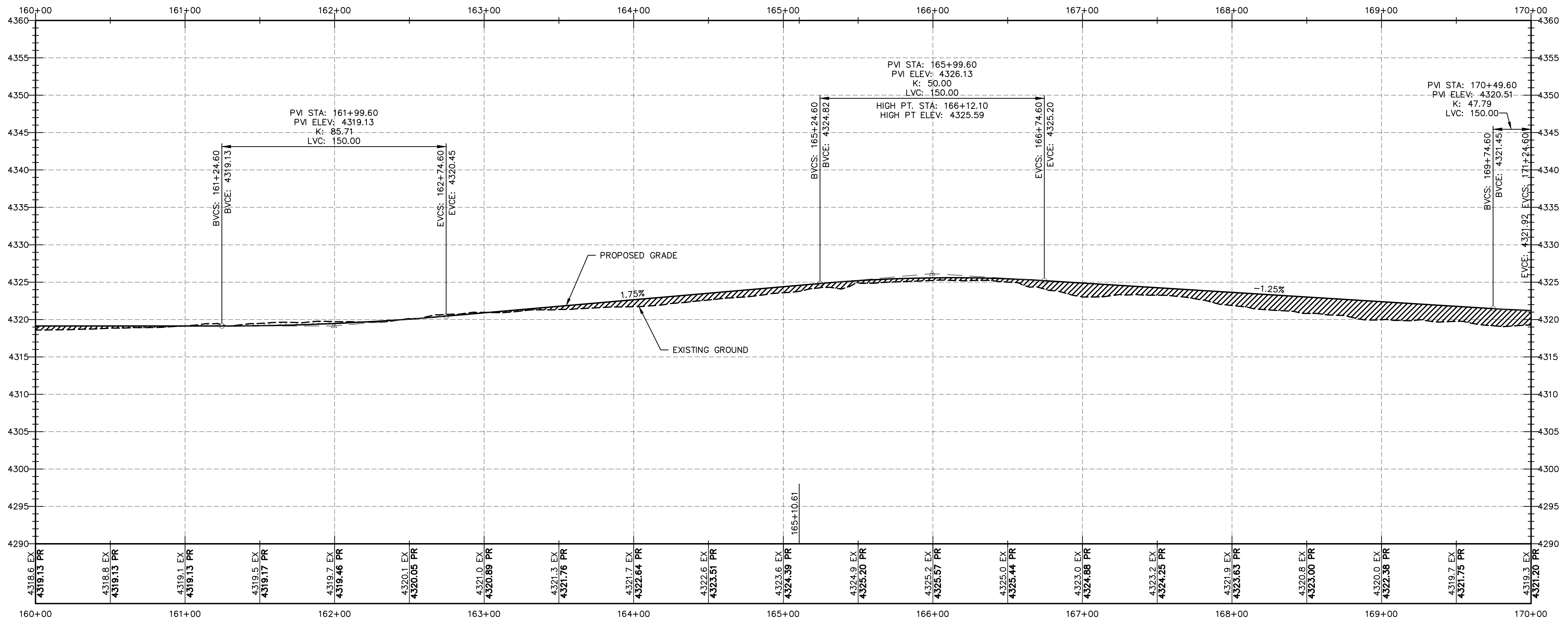
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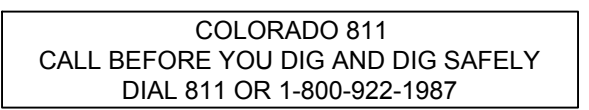
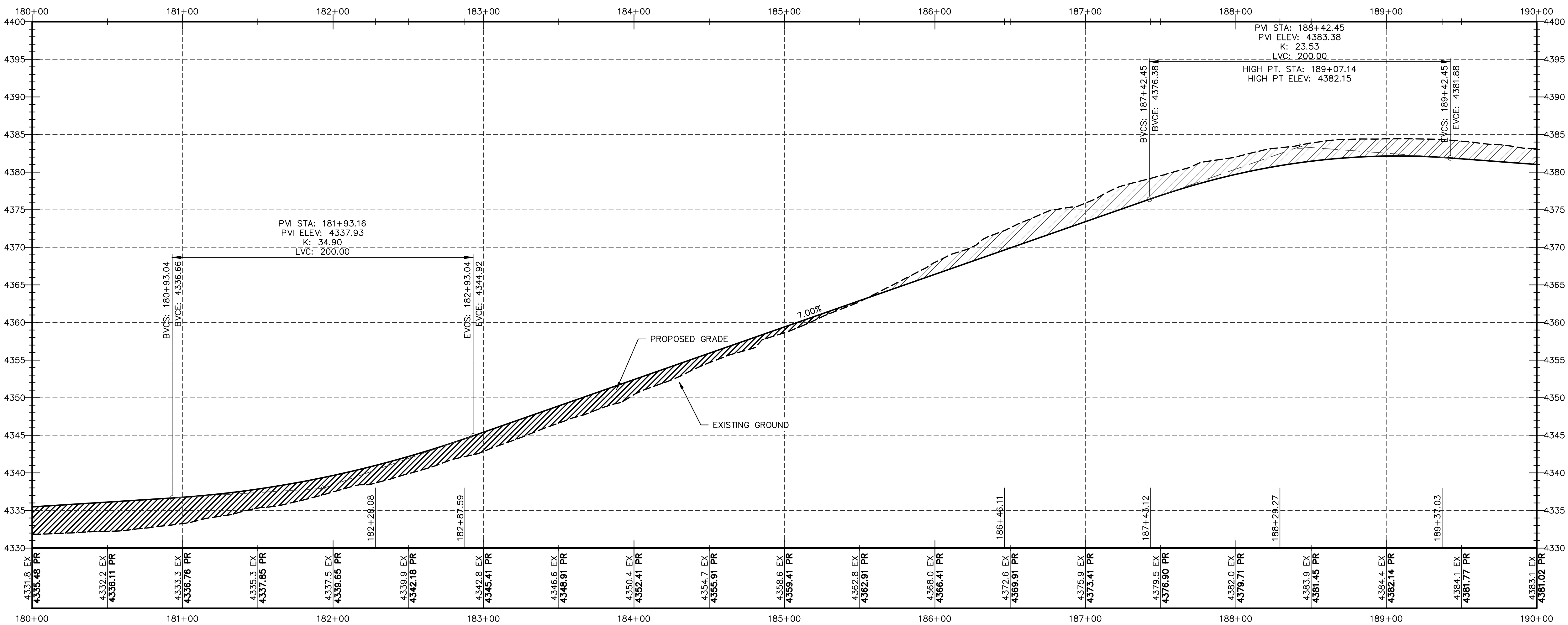
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REFERENCE DRAWINGS				REVISIONS												Washington County, Colorado		
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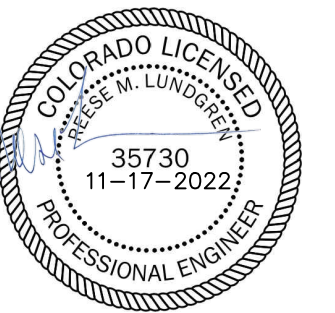
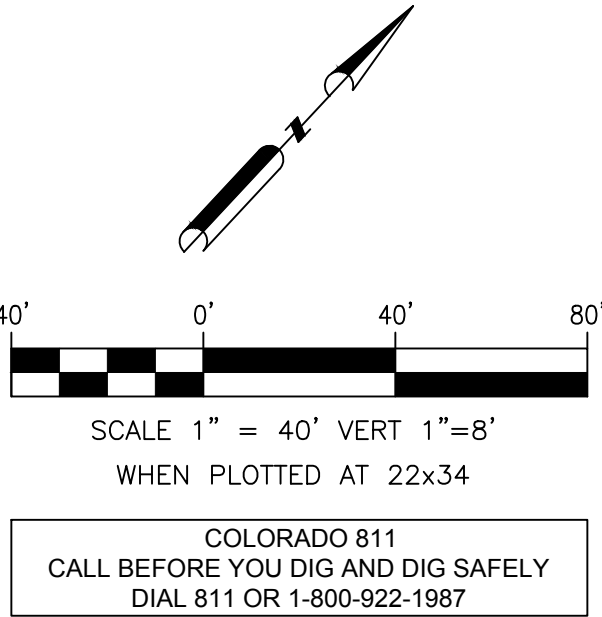






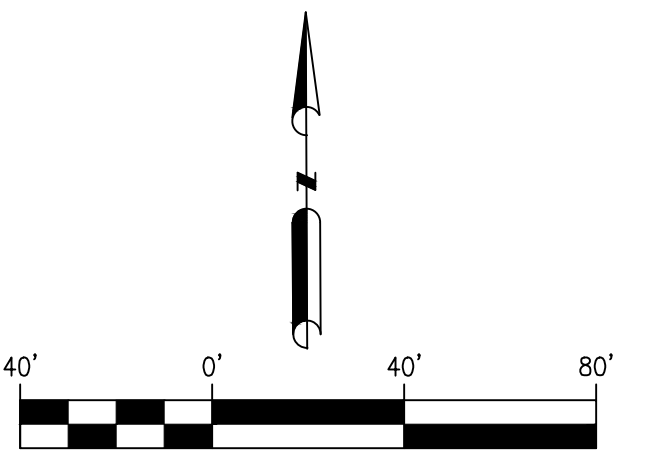
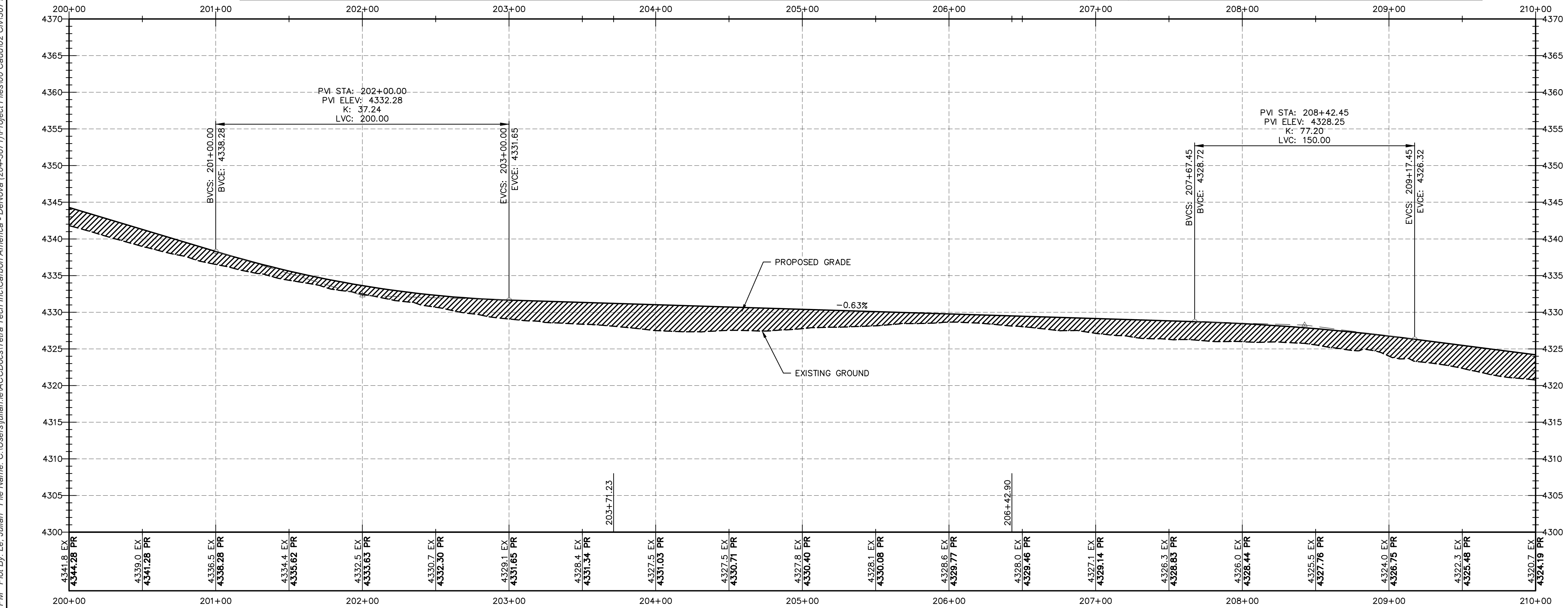
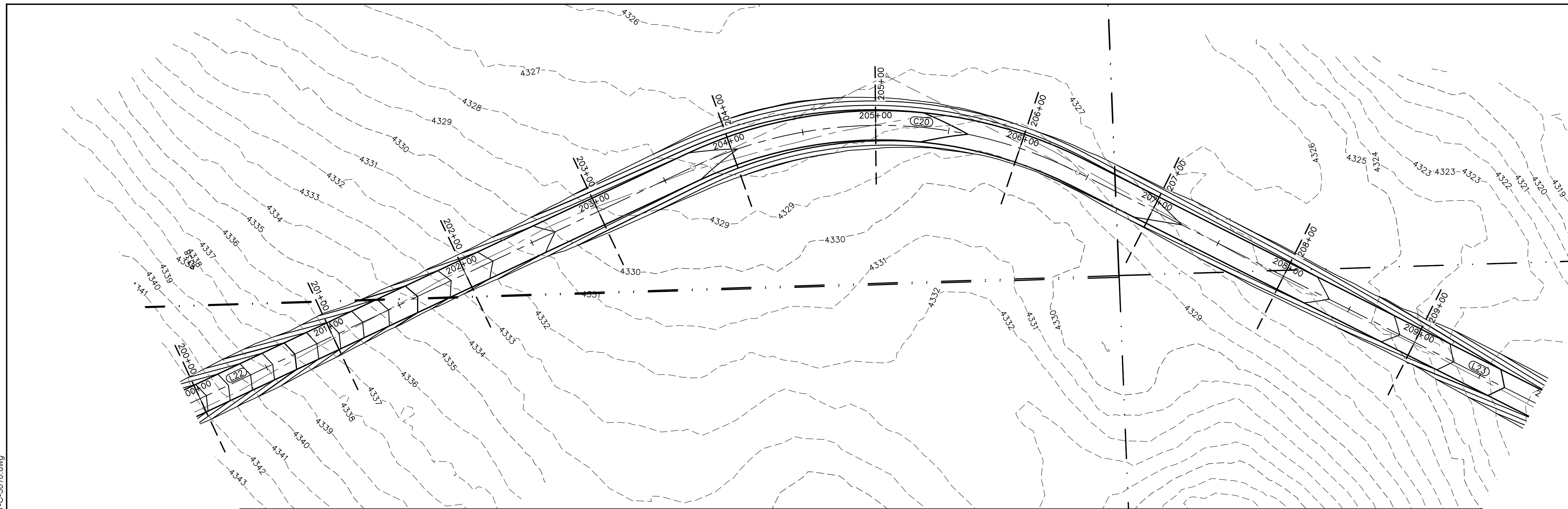


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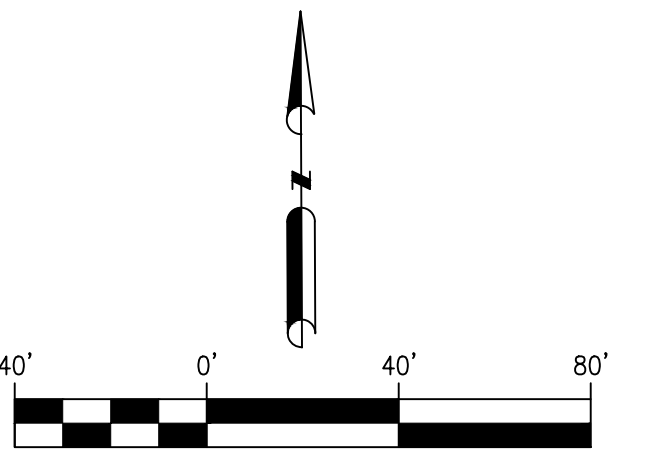
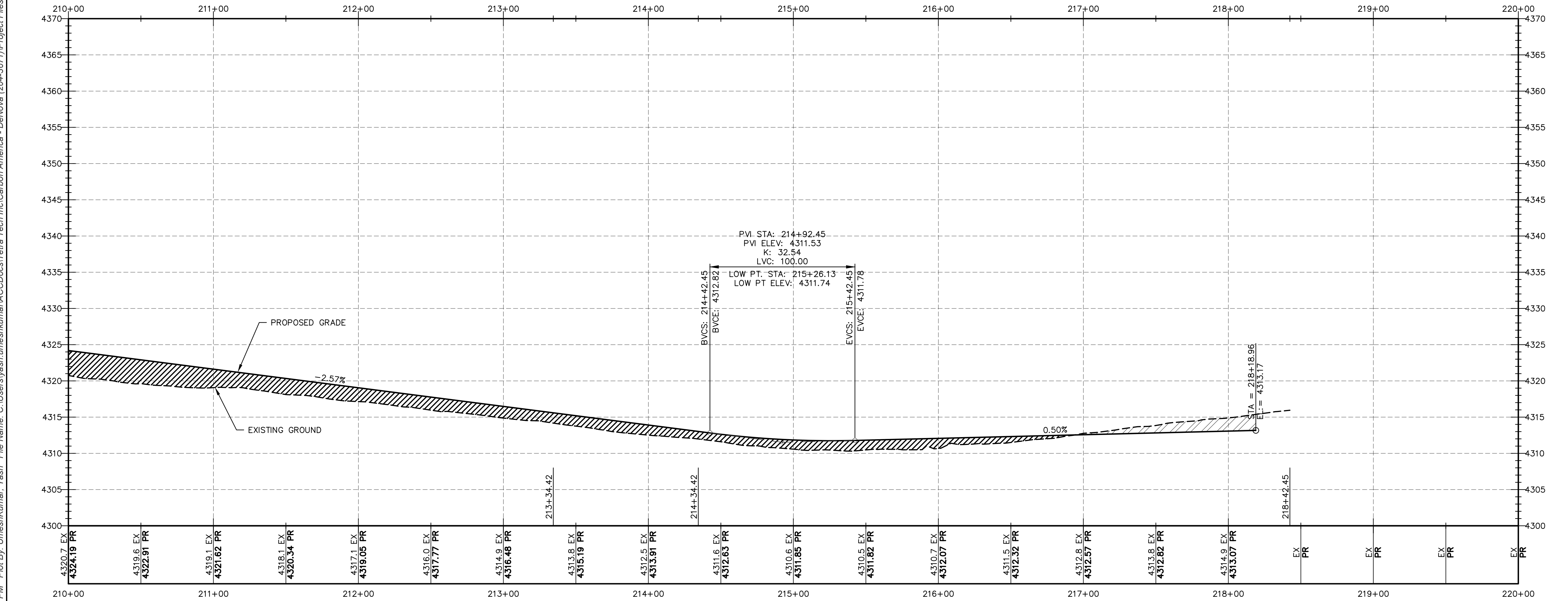
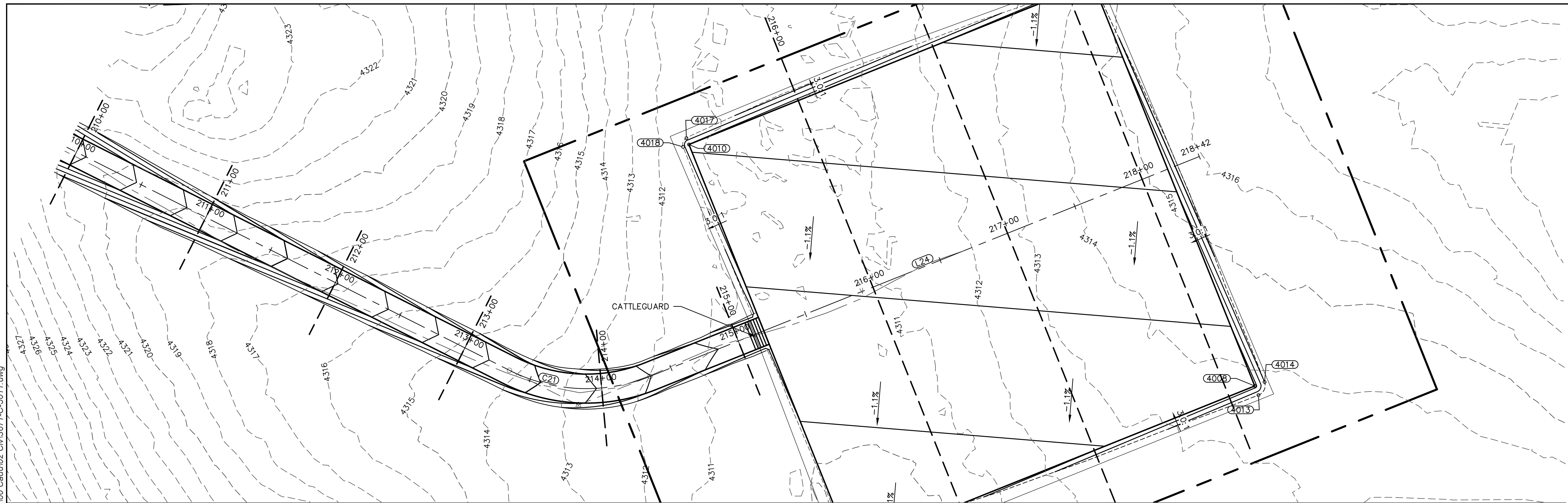


SCALE 1" = 40' VERT 1"=8'
WHEN PLOTTED AT 22x34

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REFERENCE DRAWINGS			REVISIONS									Washington County, Colorado		
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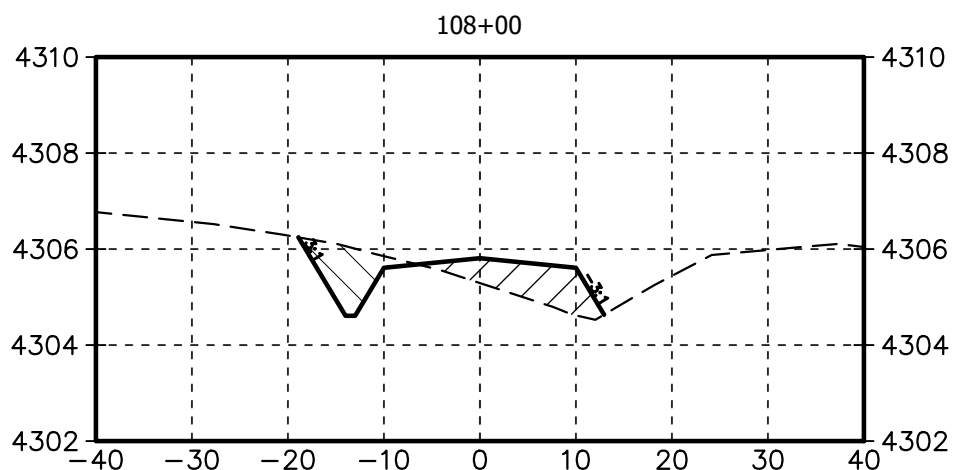
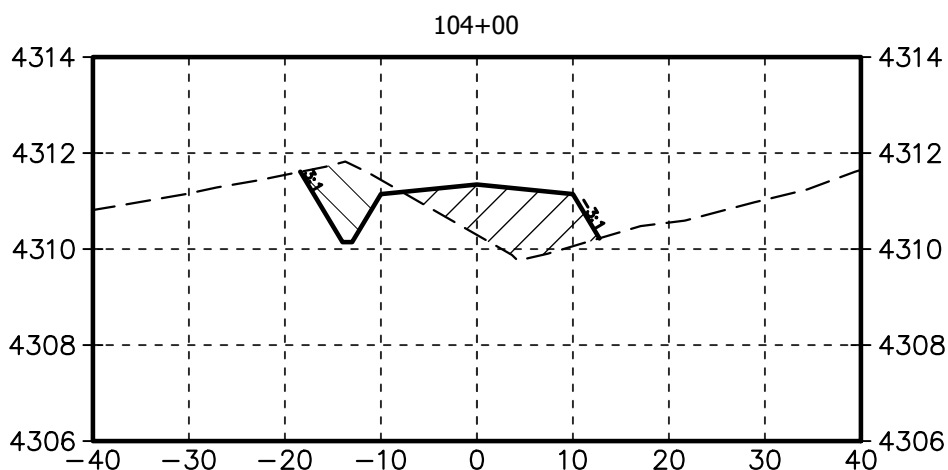
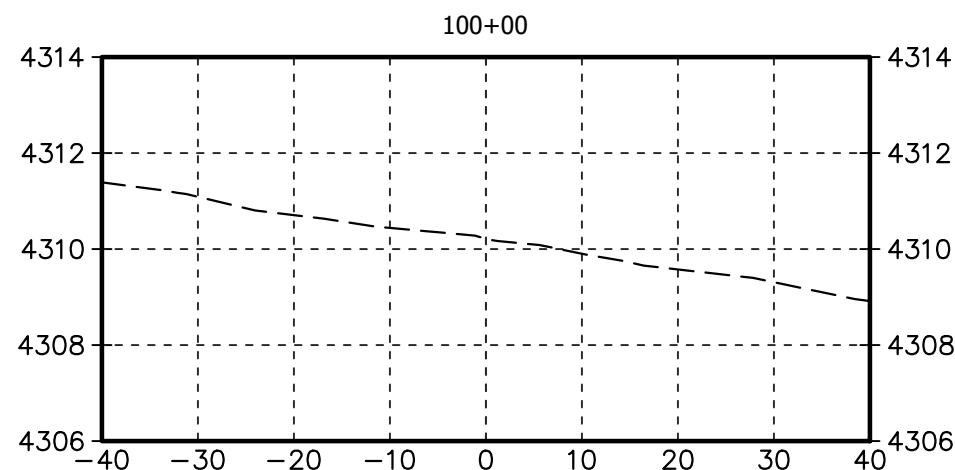
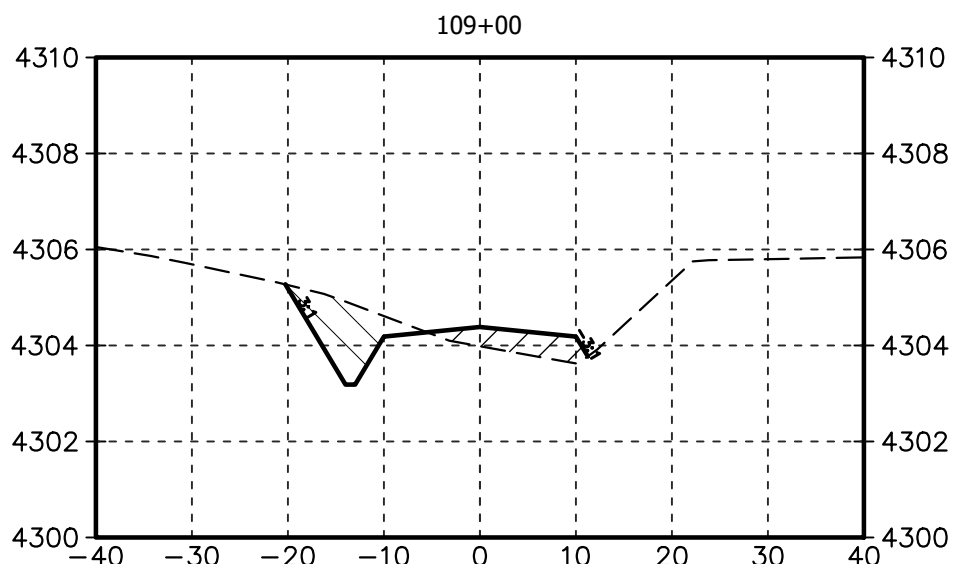
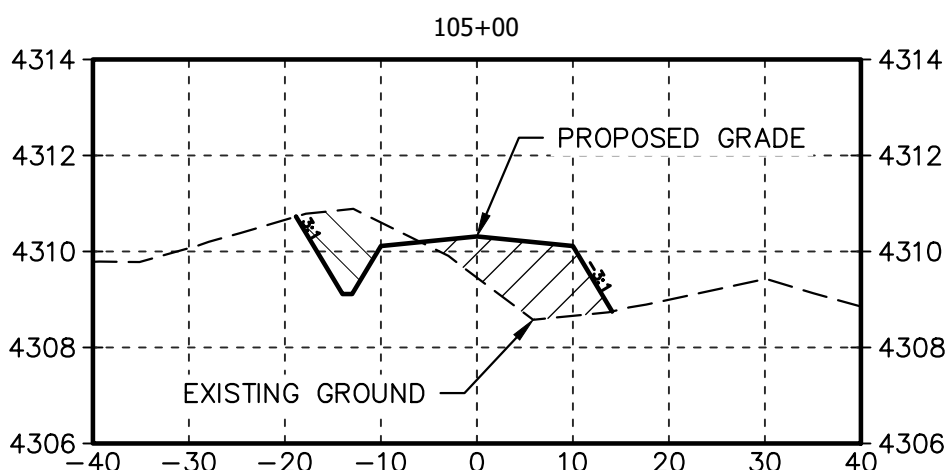
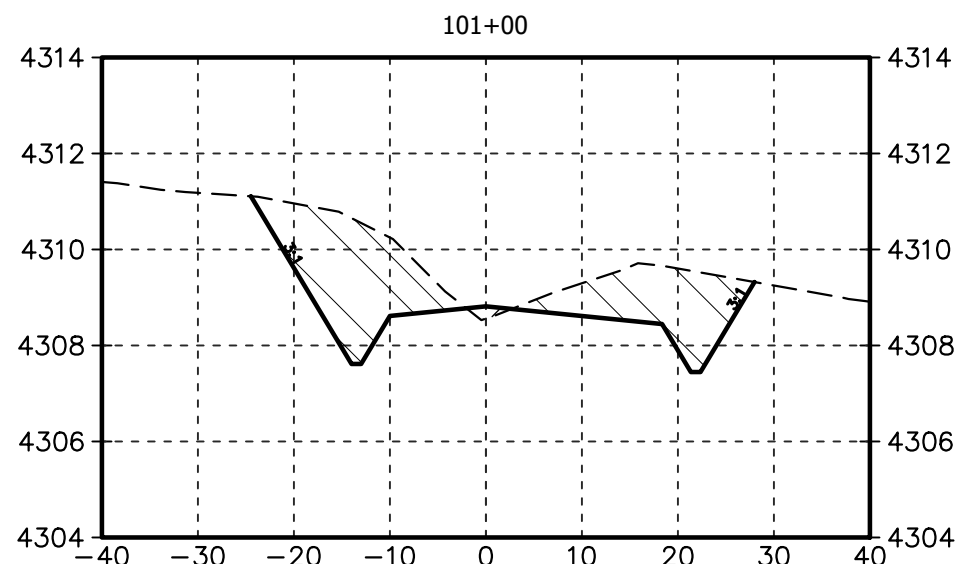
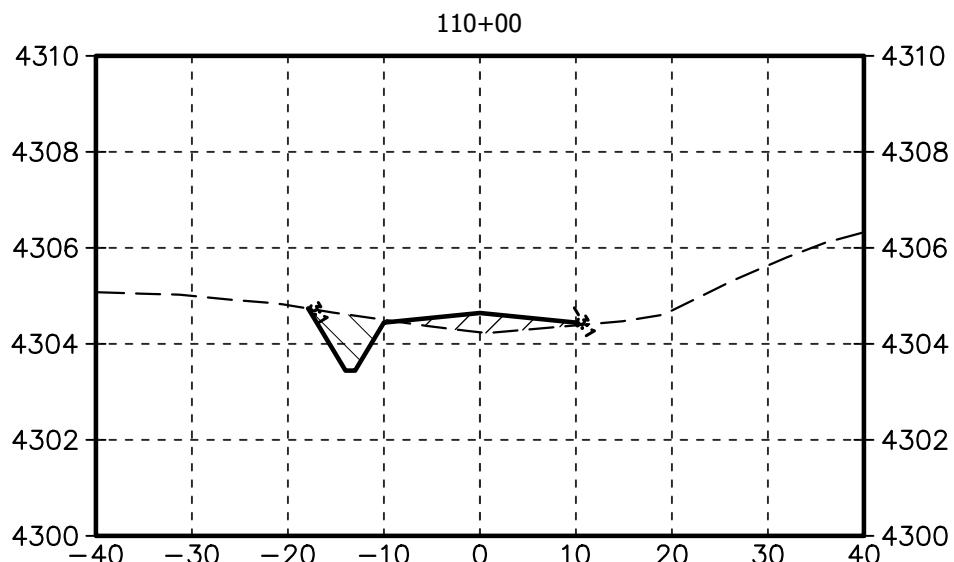
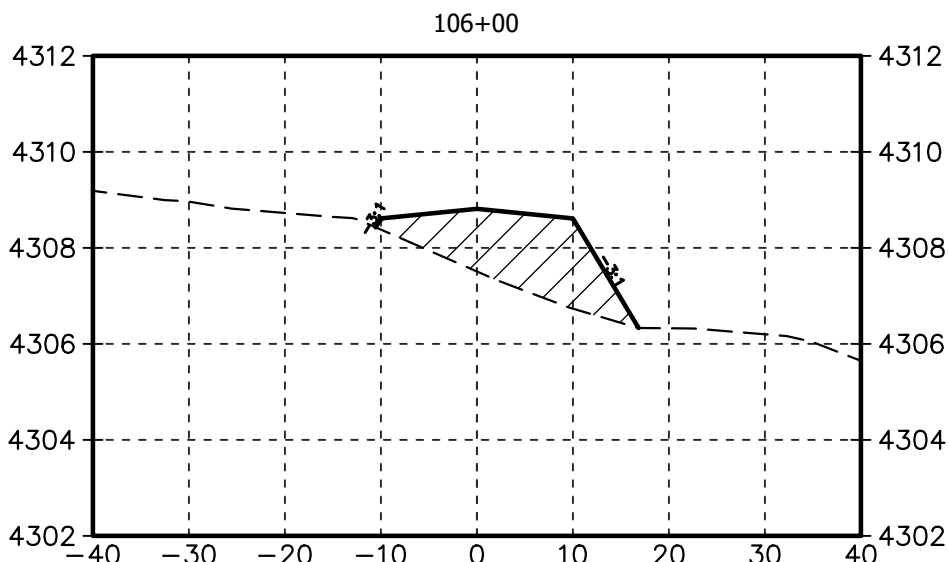
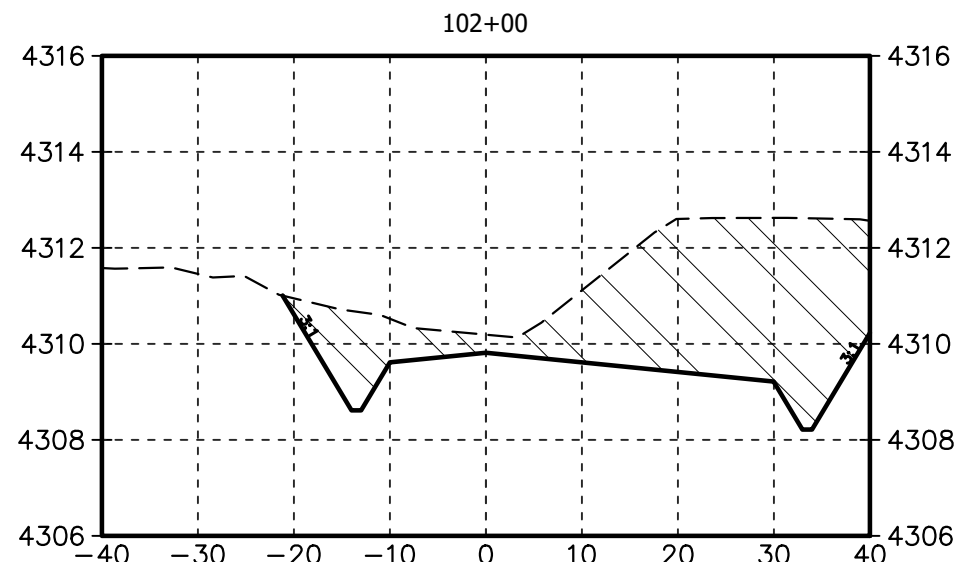
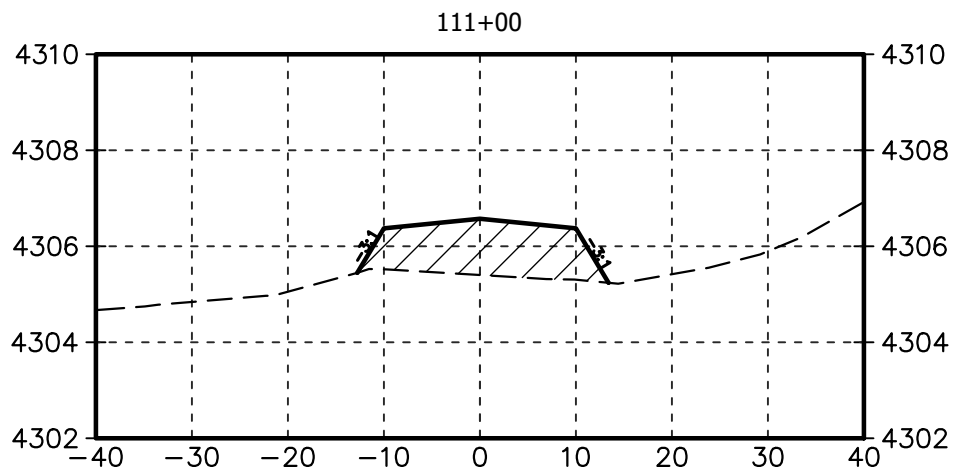
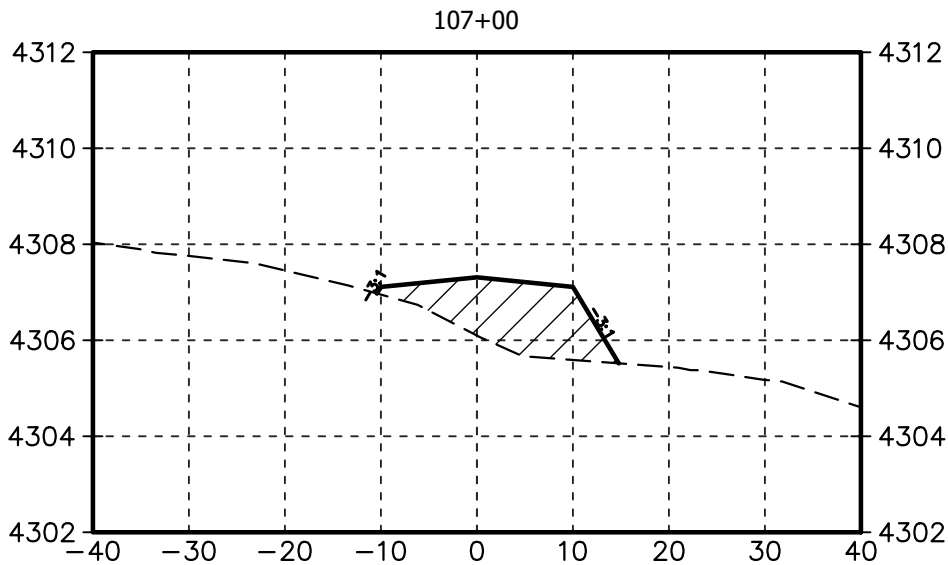
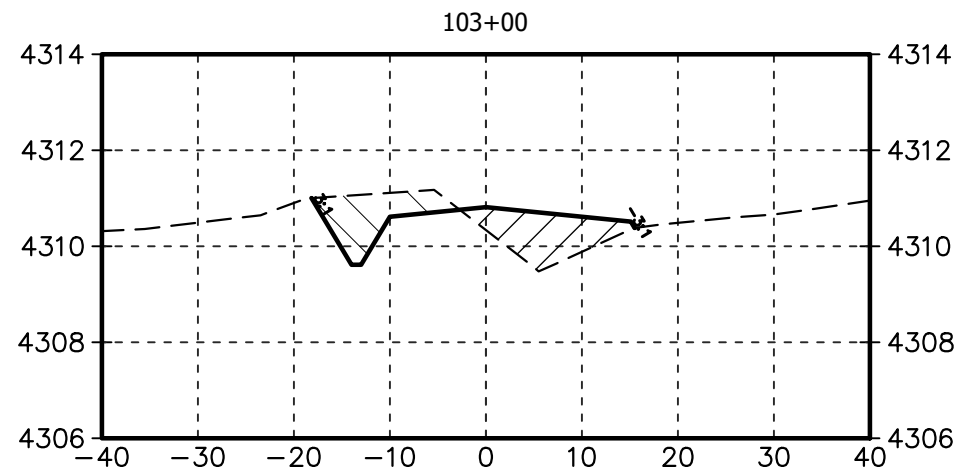


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REFERENCE DRAWINGS			REVISIONS									Washington County, Colorado DENOVA CIVIL PLAN & PROFILE STA: 210+00 TO 220+00		
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SCALE 1" = 20' VERT 1" = 4'
WHEN PLOTTED AT 22x34



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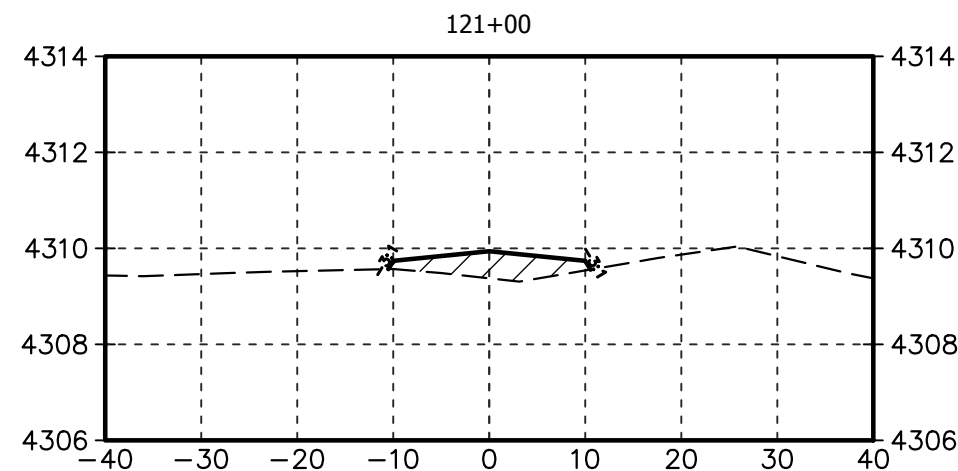




Washington County, Colorado

DENOVA CIVIL
ROADWAY SECTIONS
STA: 100+00 TO 111+00

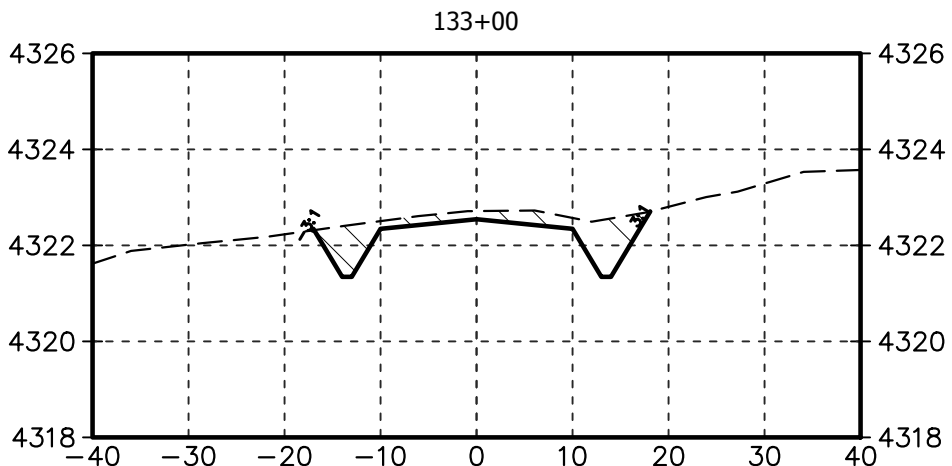
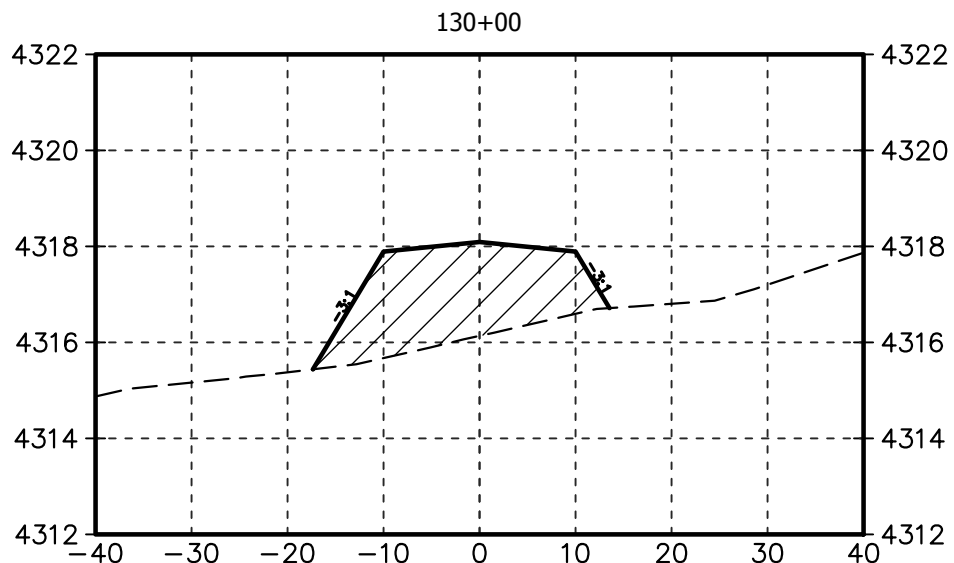
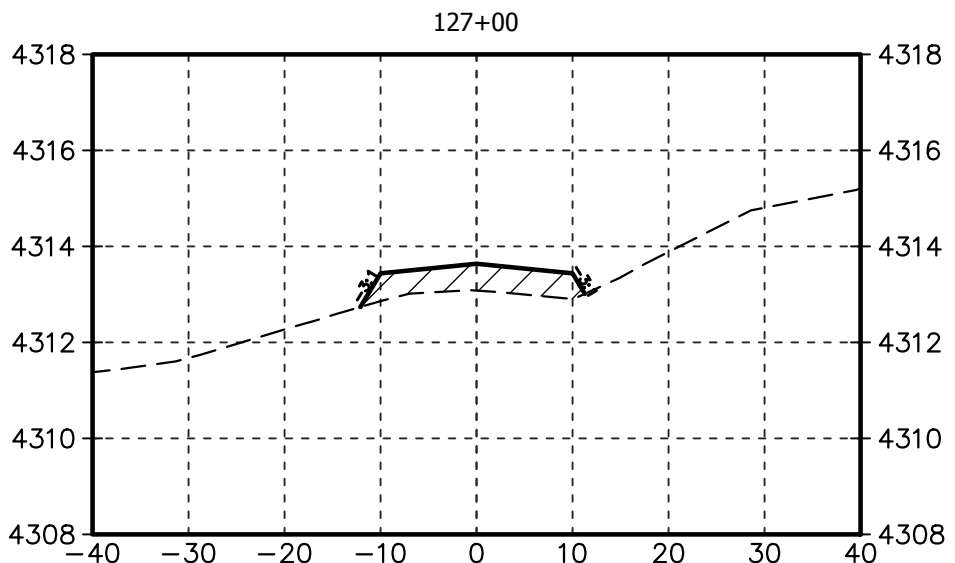
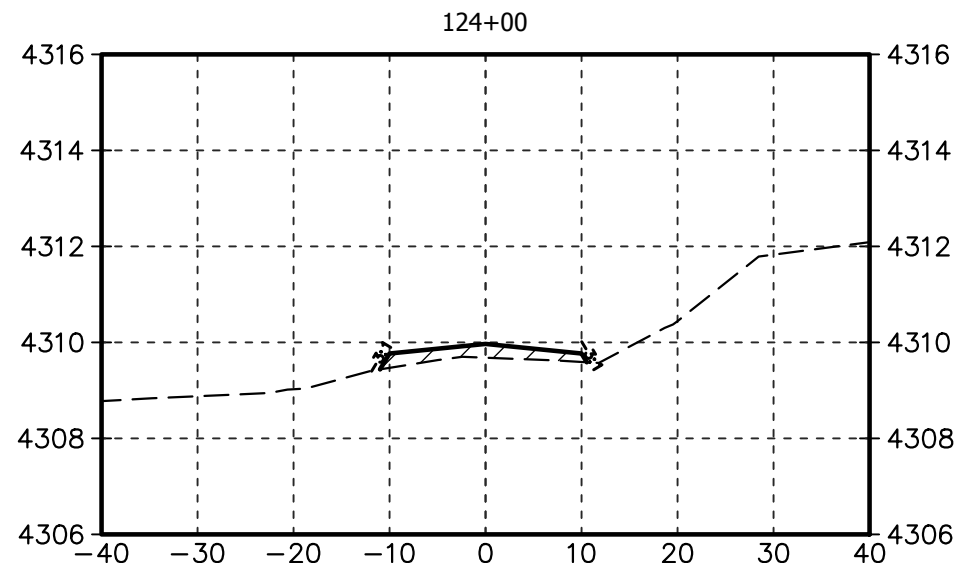
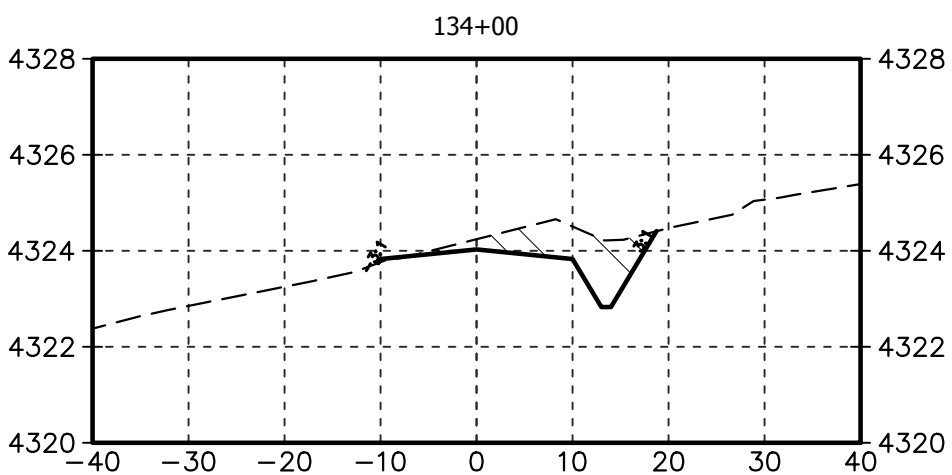
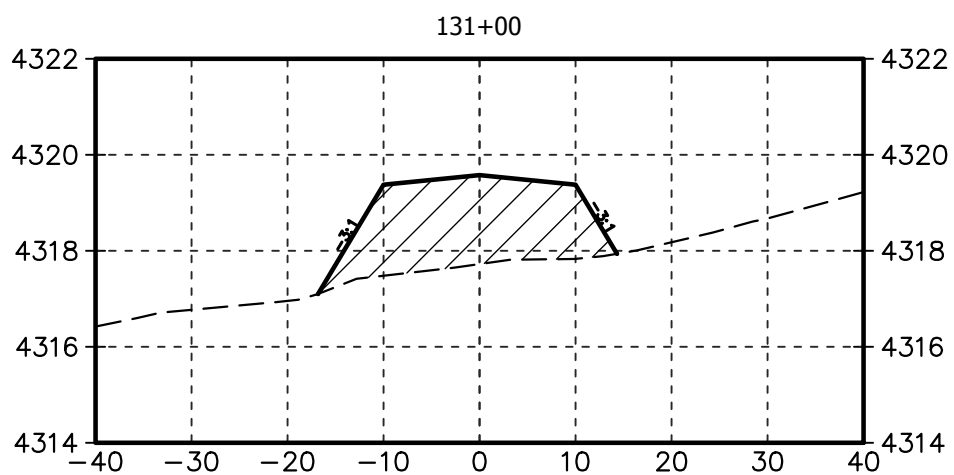
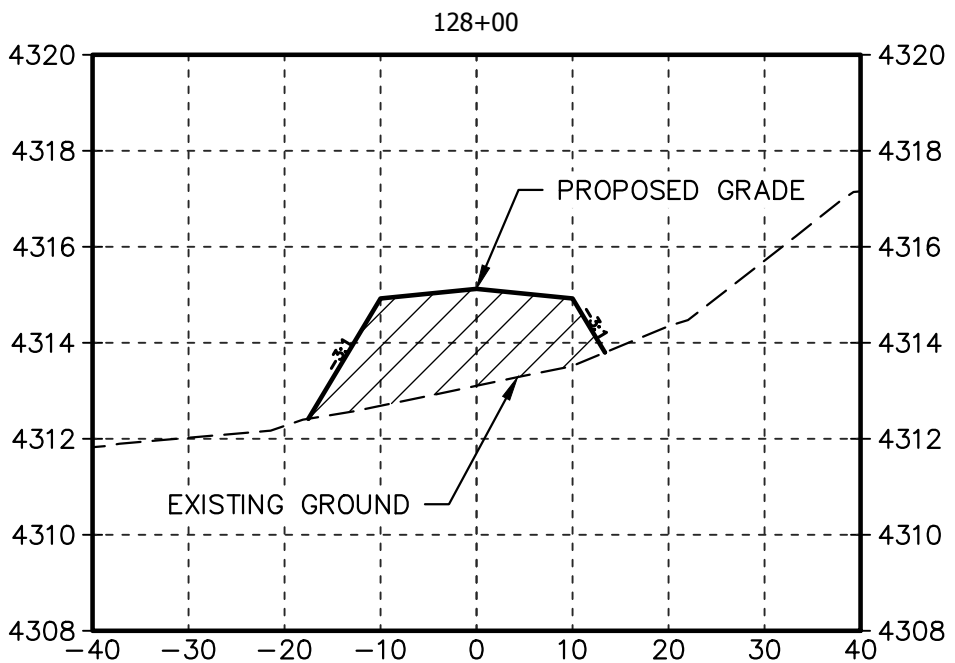
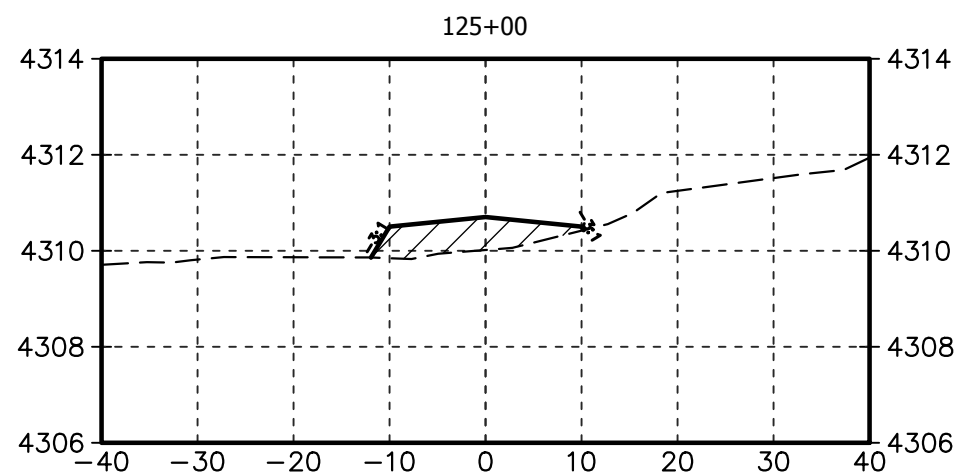
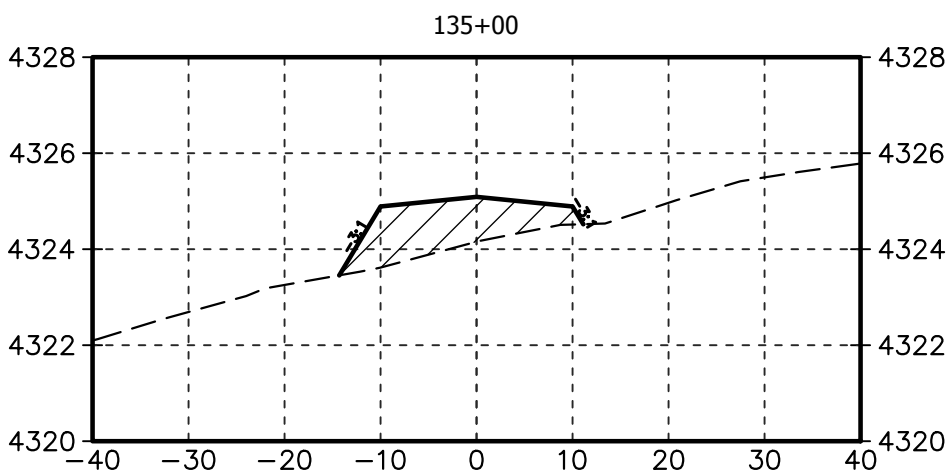
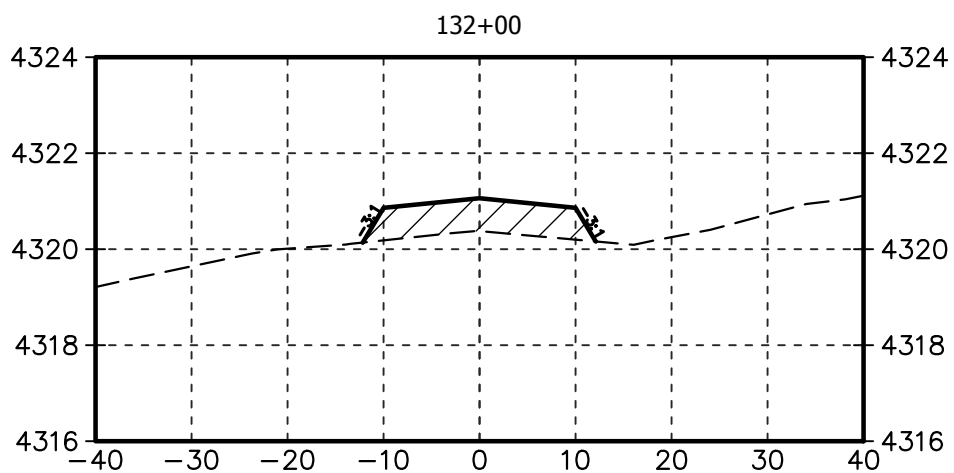
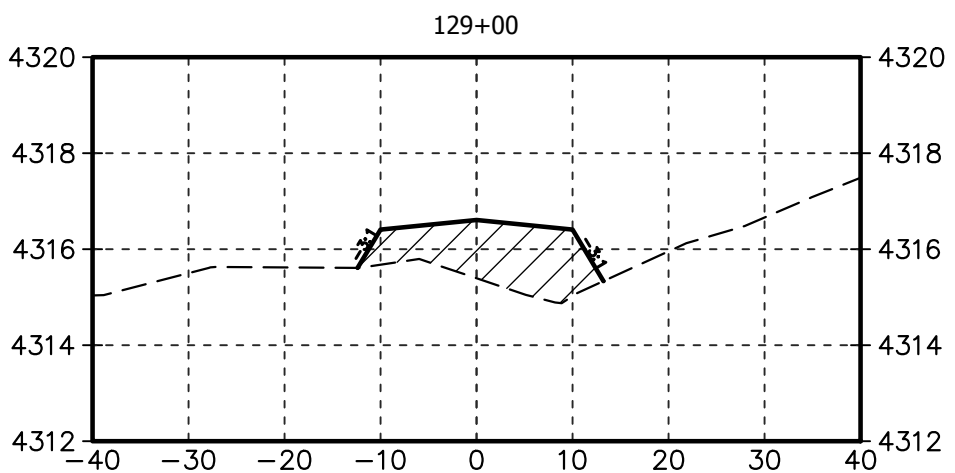
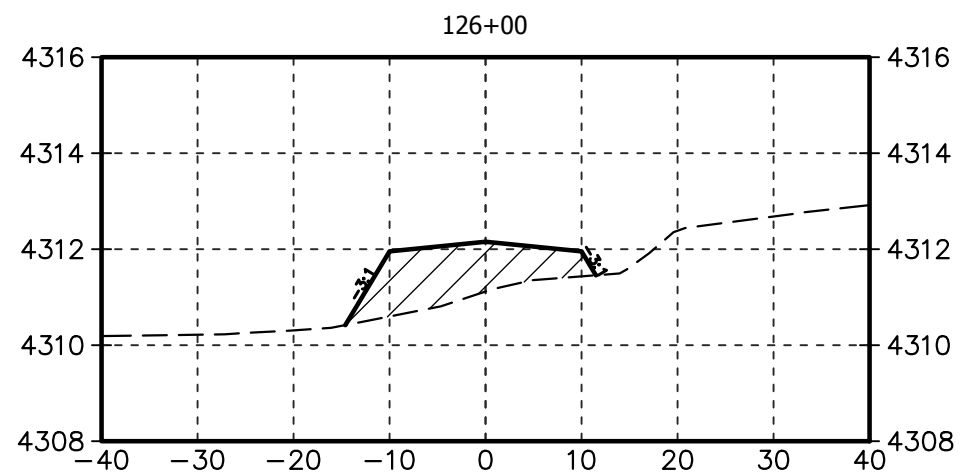
SCALE: 1" = 20' DWG. NUMBER: 3671-C-6000 REV: 0

REFERENCE DRAWINGS	
-	-
DWG. NO.	DESCRIPTION



REFERENCE DRAWINGS			REVISIONS								 	Washington County, Colorado		
												DENOVA CIVIL ROADWAY SECTIONS STA: 112+00 TO 123+00		
- - DWG. NO. DESCRIPTION			0 ISSUED FOR CONSTRUCTION NO. DESCRIPTION BY DATE CHK DATE APP DATE									SCALE: 1" = 20' DWG. NUMBER: 3671-C-6001 REV: 0		

Plot Date: 11/16/2022 4:58:48 PM Plot By: Fries, Chris File Name: C:\Users\chris.fries\ACCDocs\Tetra Tech Inc\Carbon America - DeNova (204-3671)\Project Files\00 Cadd\02 Civil\3671-C-6002.dwg



SCALE 1" = 20' VERT 1" = 4'
WHEN PLOTTED AT 22x34



REFERENCE DRAWINGS	
-	-
DWG. NO.	DESCRIPTION

REVISIONS							
0	ISSUED FOR CONSTRUCTION	CEF	11-17-2022	RML	11-17-2022	ZB	11-17-2022
NO.	DESCRIPTION	BY	DATE	CHK	DATE	APP	DATE





Washington County, Colorado

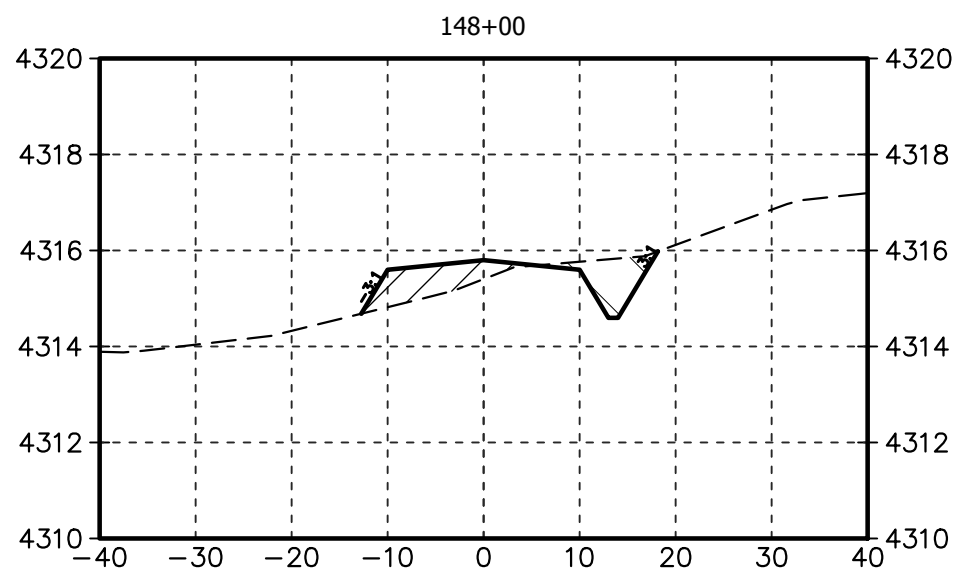
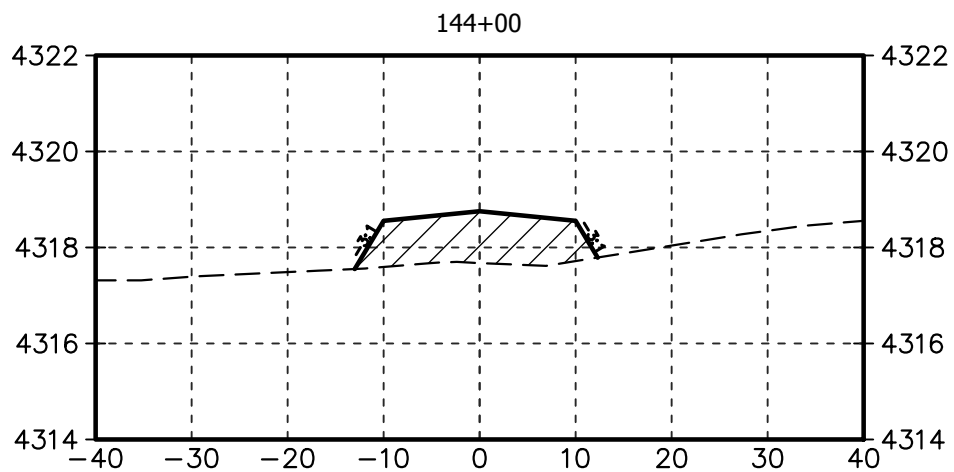
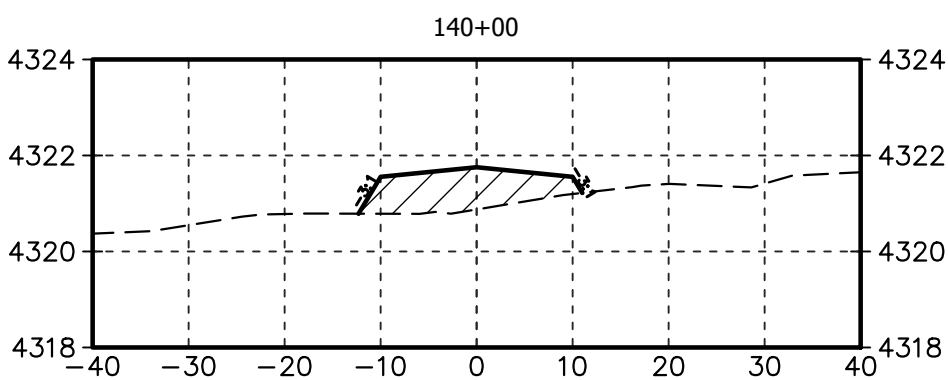
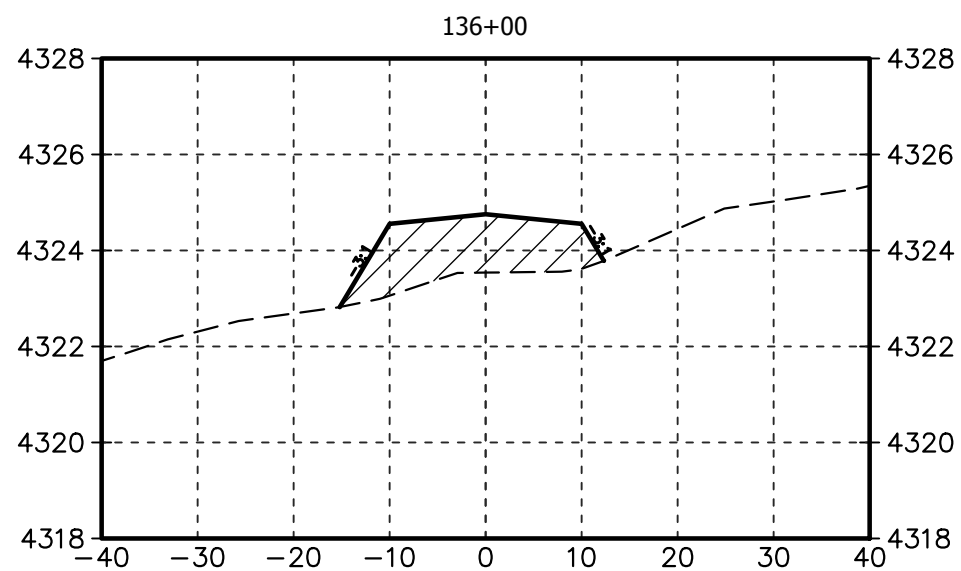
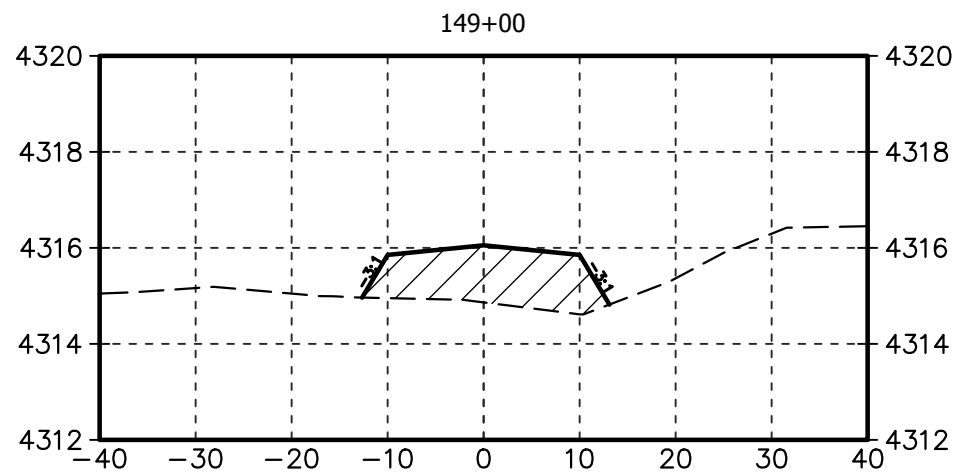
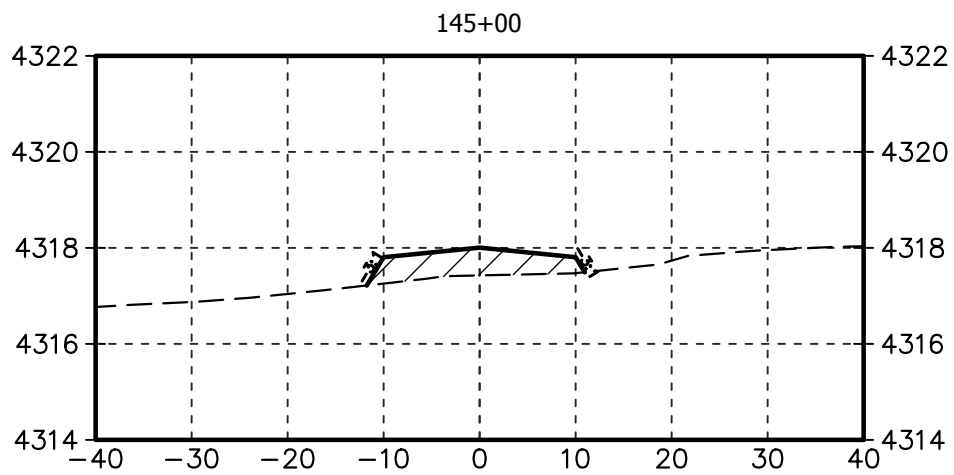
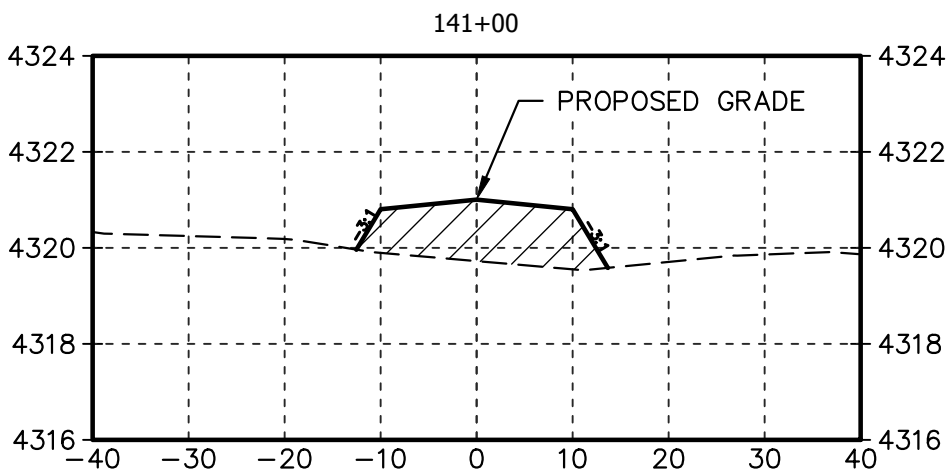
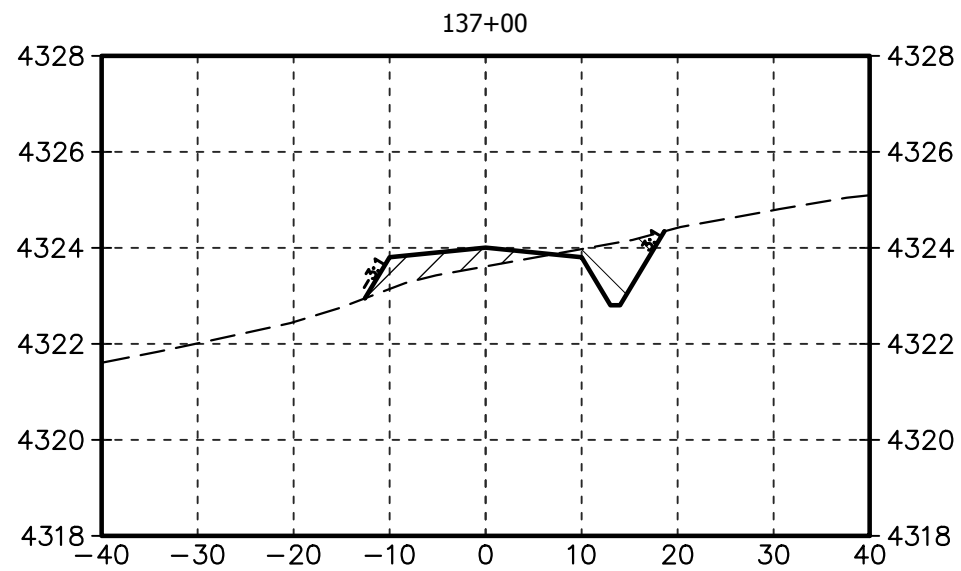
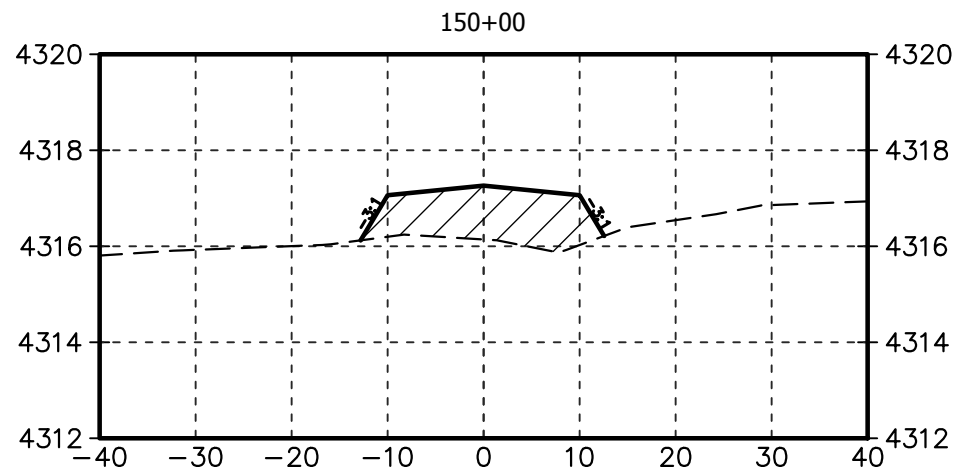
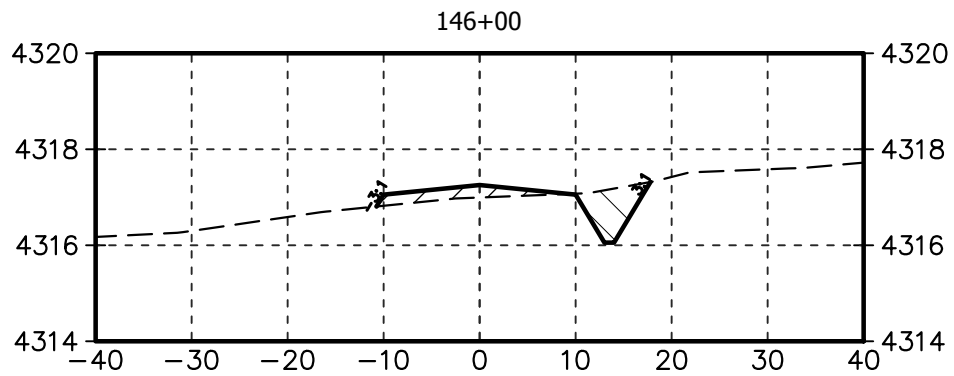
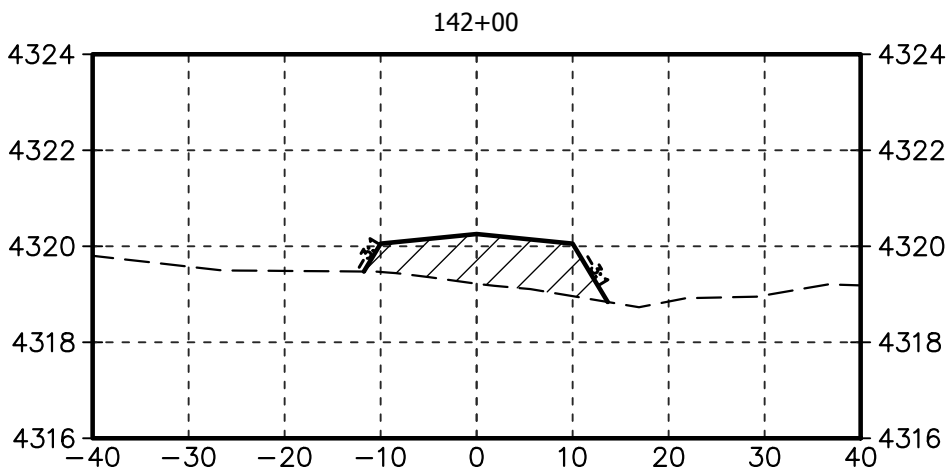
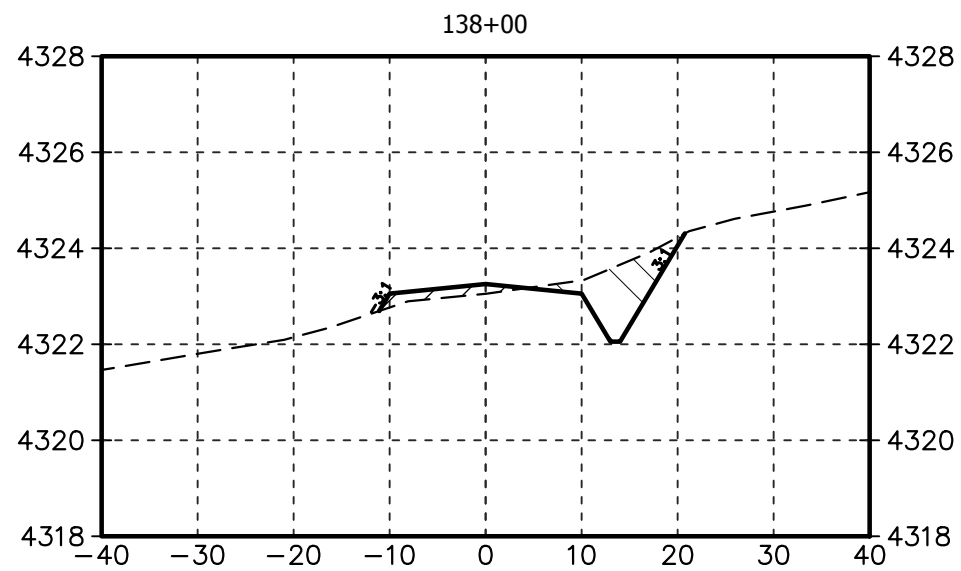
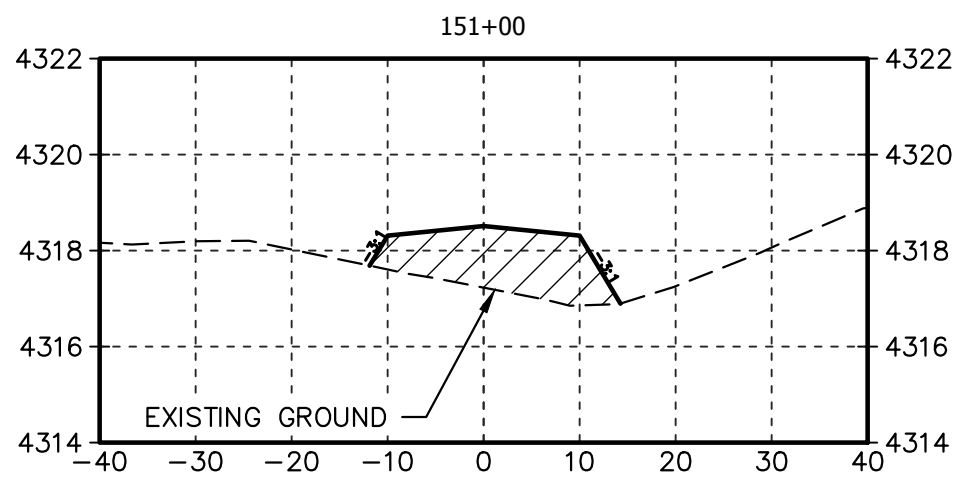
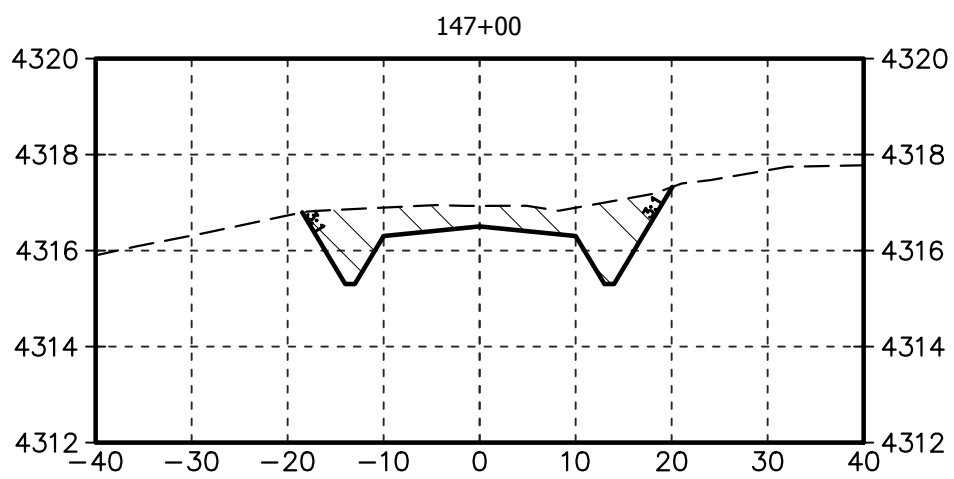
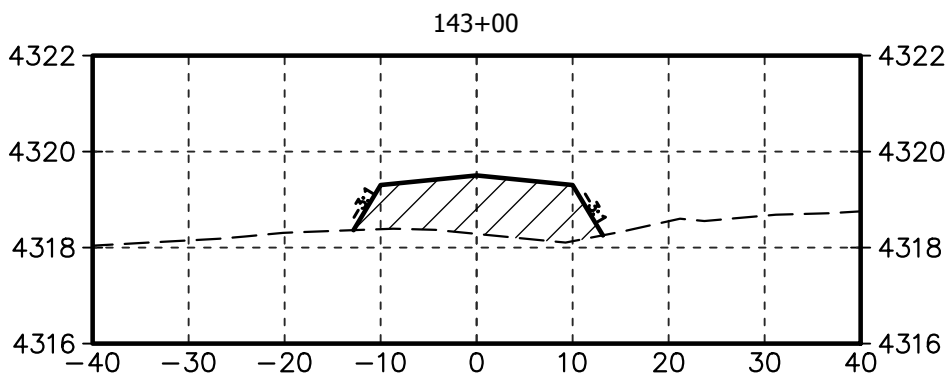
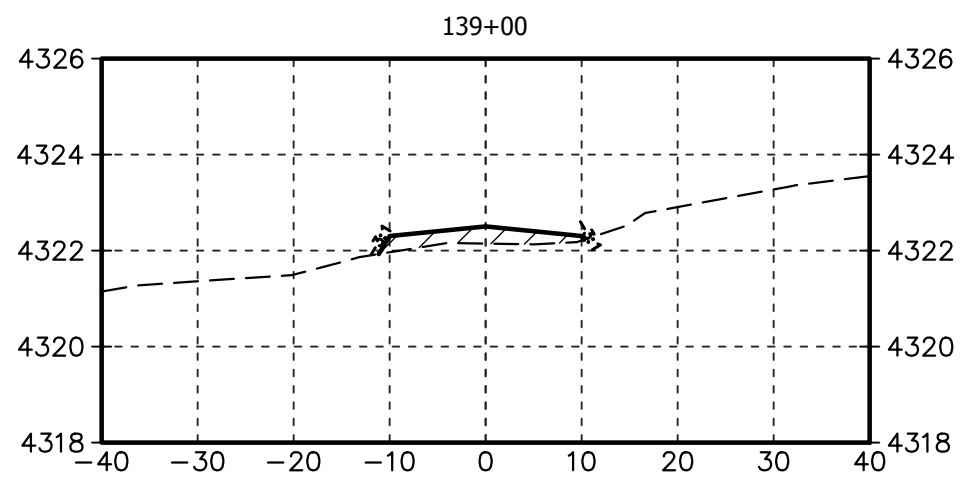
DENOVA CIVIL
ROADWAY SECTIONS
STA: 124+00 TO 135+00

SCALE: 1" = 20'

DWG. NUMBER: 3671-C-6002

REV: 0

Plot Date: 11/16/2022 4:54:01 PM Plot By: Fries, Chris File Name: C:\Users\chris.fries\ACCDocs\Tetra Tech Inc\Carbon America - DeNova (204-3671)\Project Files\00 Cadd\02 Civil\3671-C-6003.dwg



SCALE 1" = 20' VERT 1" = 4'
WHEN PLOTTED AT 22x34



REFERENCE DRAWINGS	
-	-
DWG. NO.	DESCRIPTION

REVISIONS	
0	ISSUED FOR CONSTRUCTION
NO.	DESCRIPTION

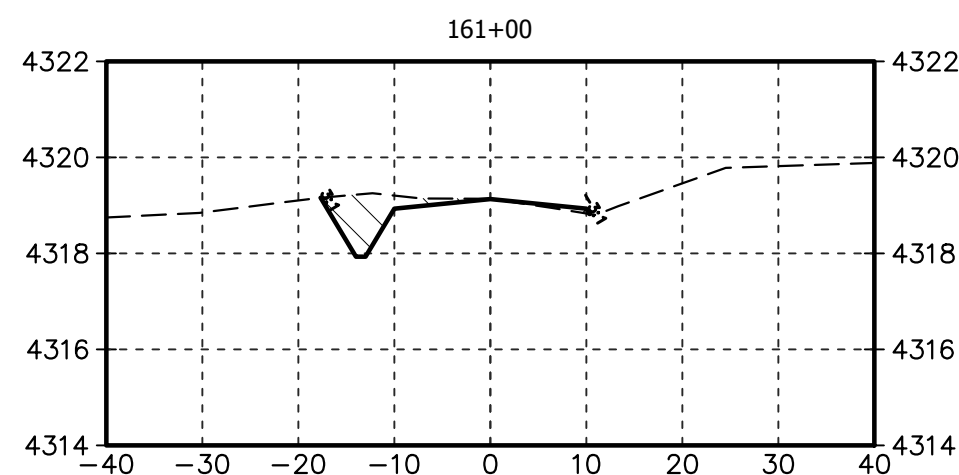
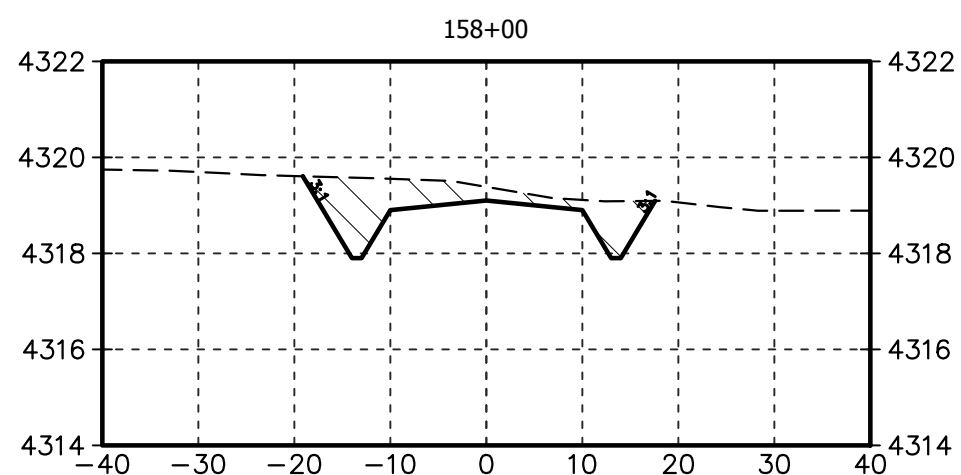
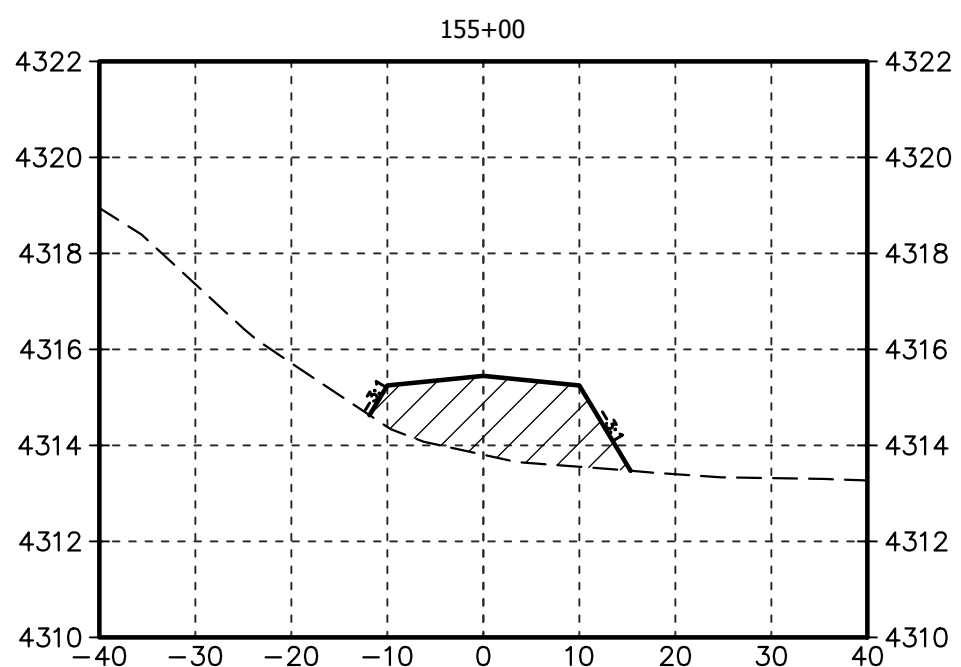
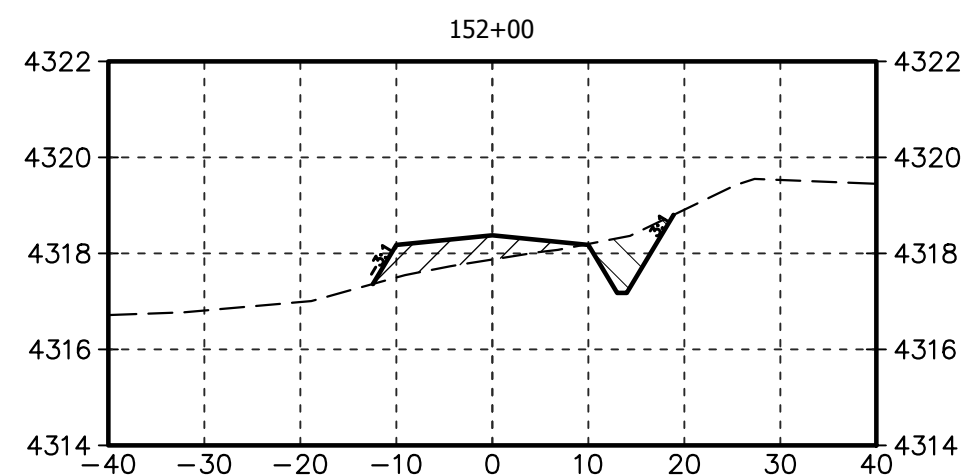
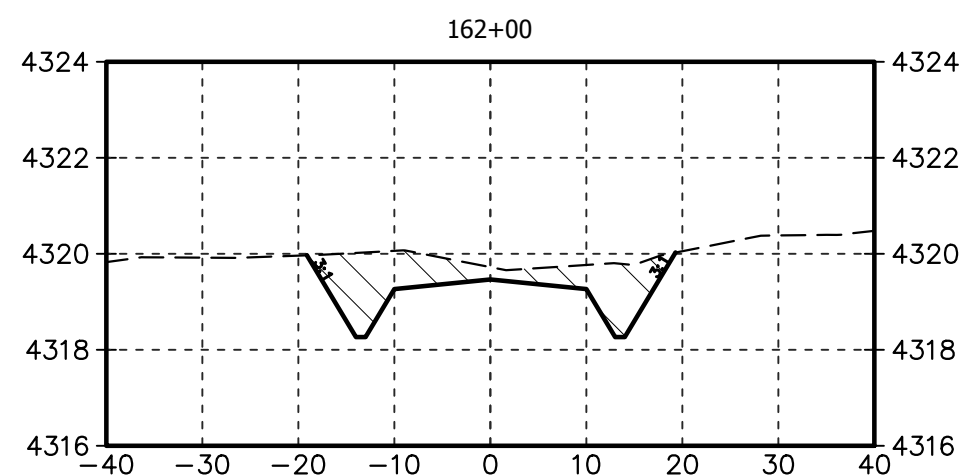
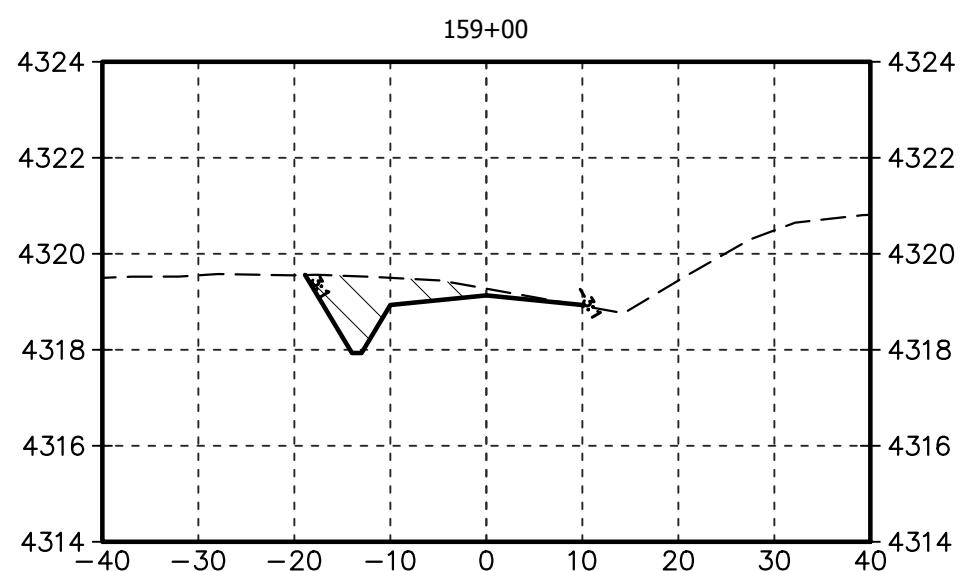
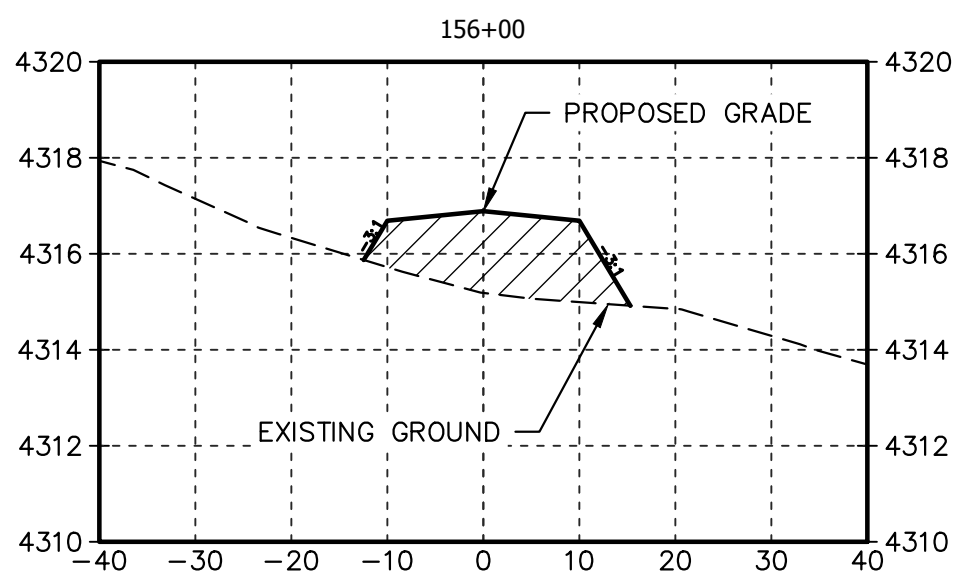
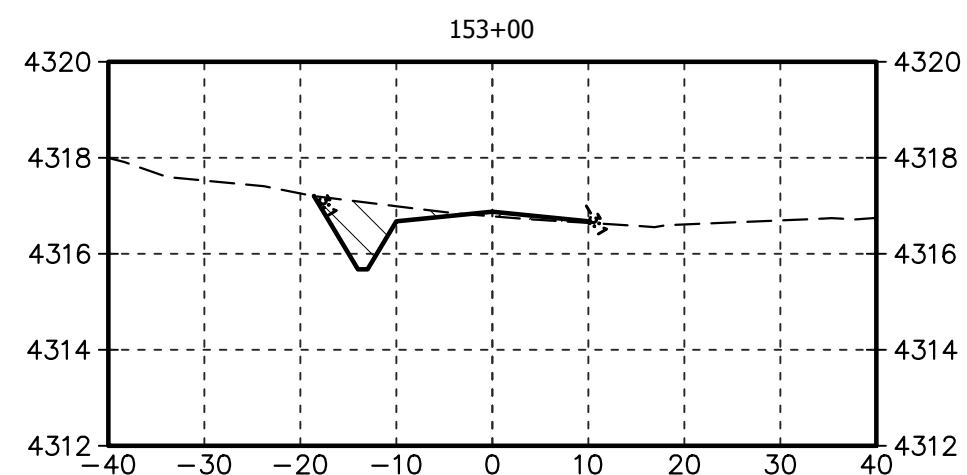
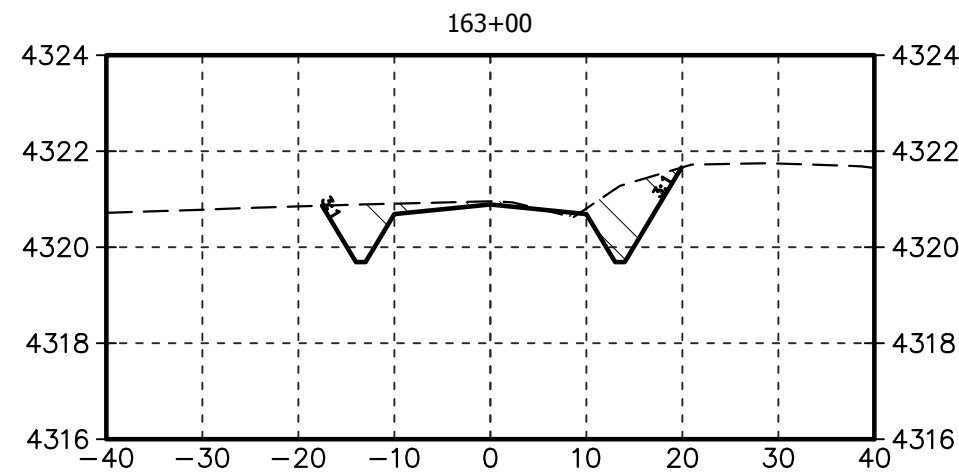
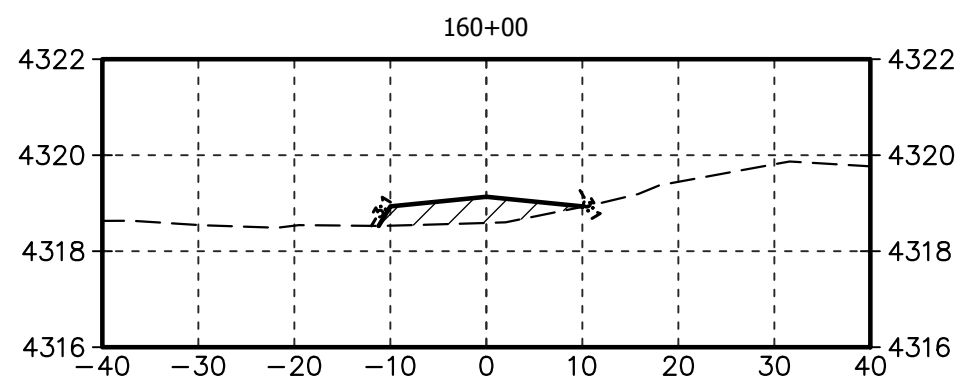
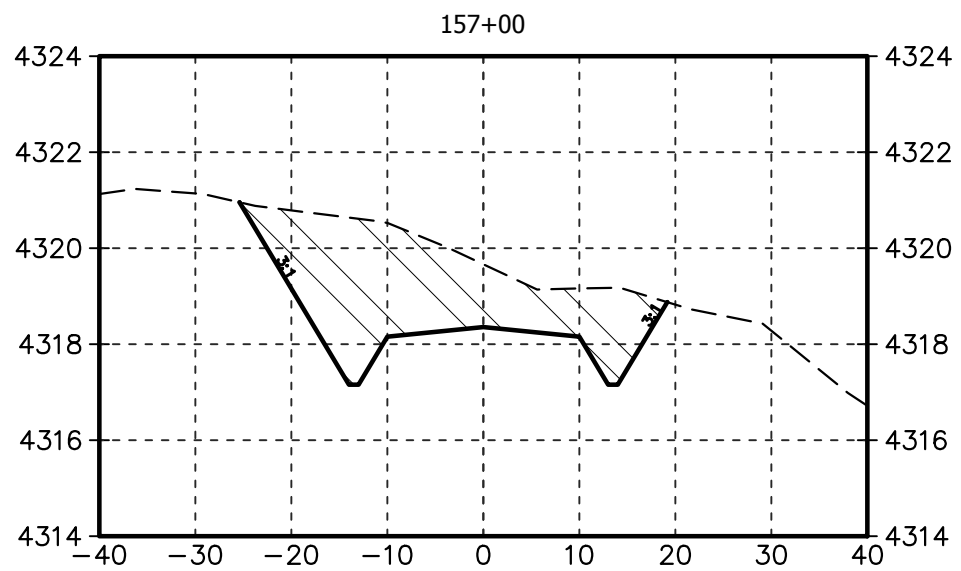
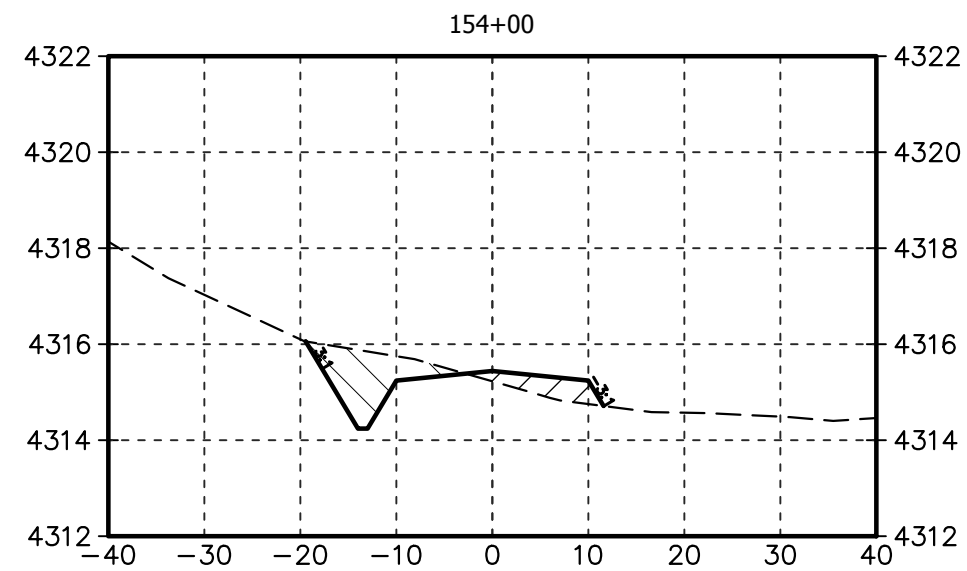




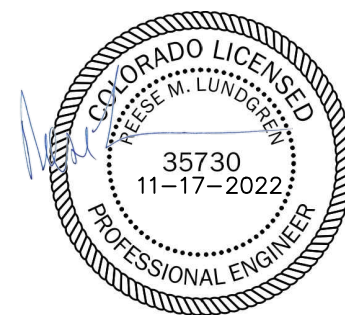
(303) 792-5911

Washington County, Colorado		
DENOVA CIVIL ROADWAY SECTIONS STA: 136+00 TO 151+00		
SCALE: 1" = 20'	DWG. NUMBER: 3671-C-6003	REV: 0

Plot Date: 11/16/2022 4:50:11 PM Plot By: Fries, Chris File Name: C:\Users\chris.fries\OneDrive\Documents\Tetra Tech\Inc\Carbon America - DeNova (204-3671)\Project Files\00 Cadd\02 Civil\3671-C-6004.dwg

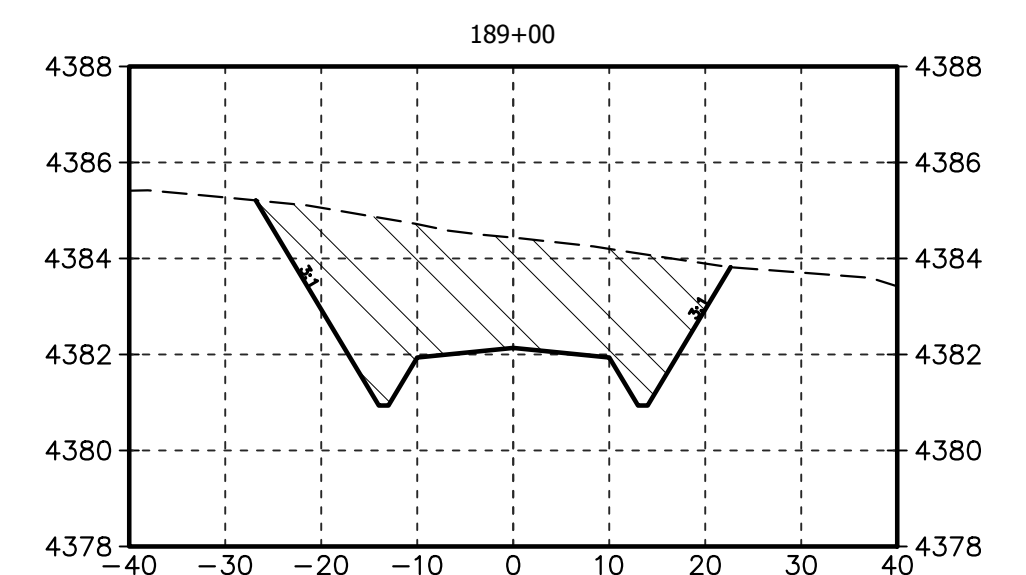
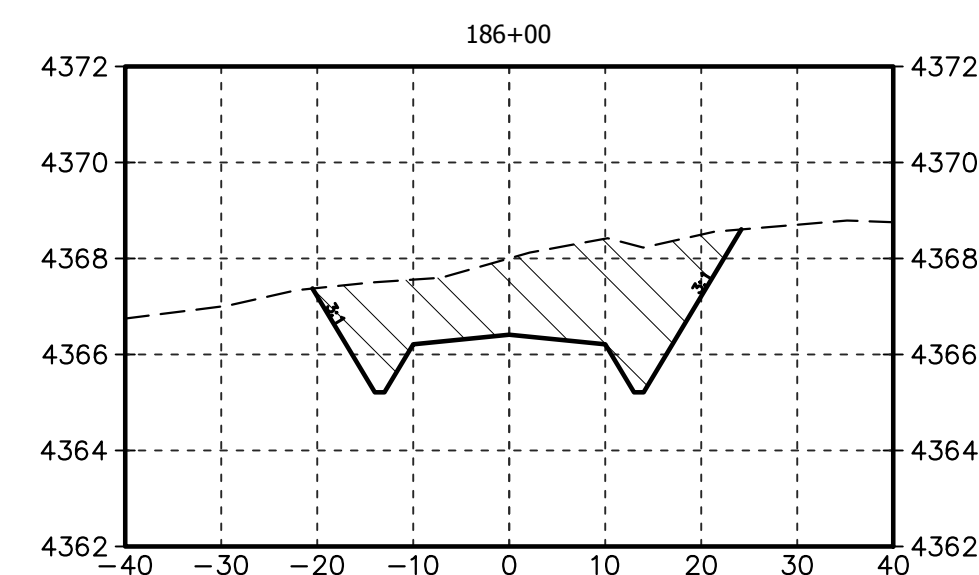
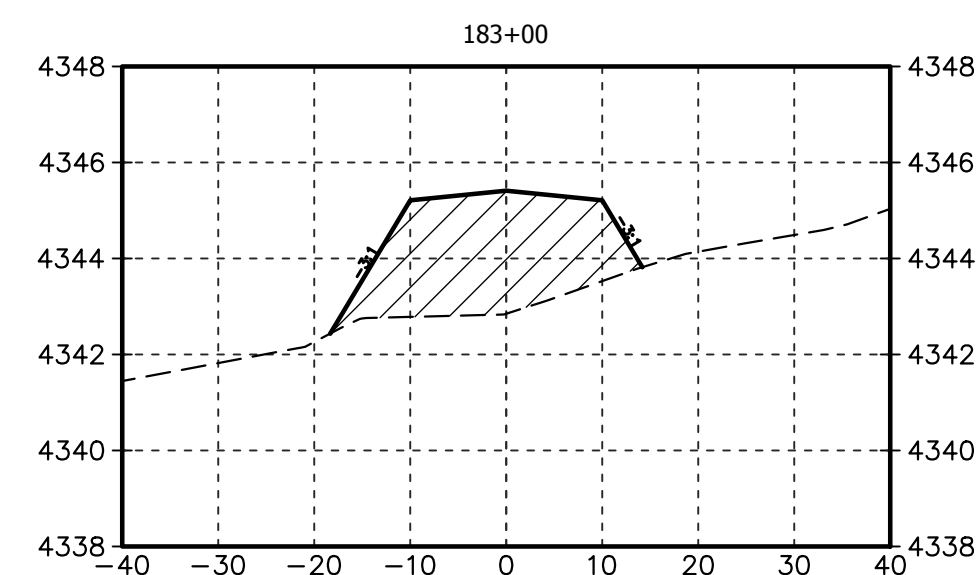
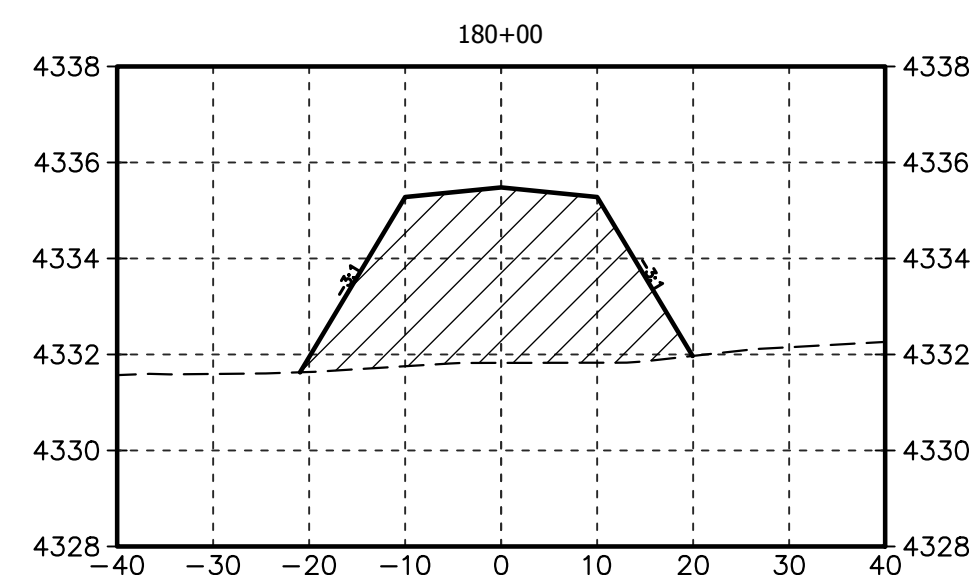
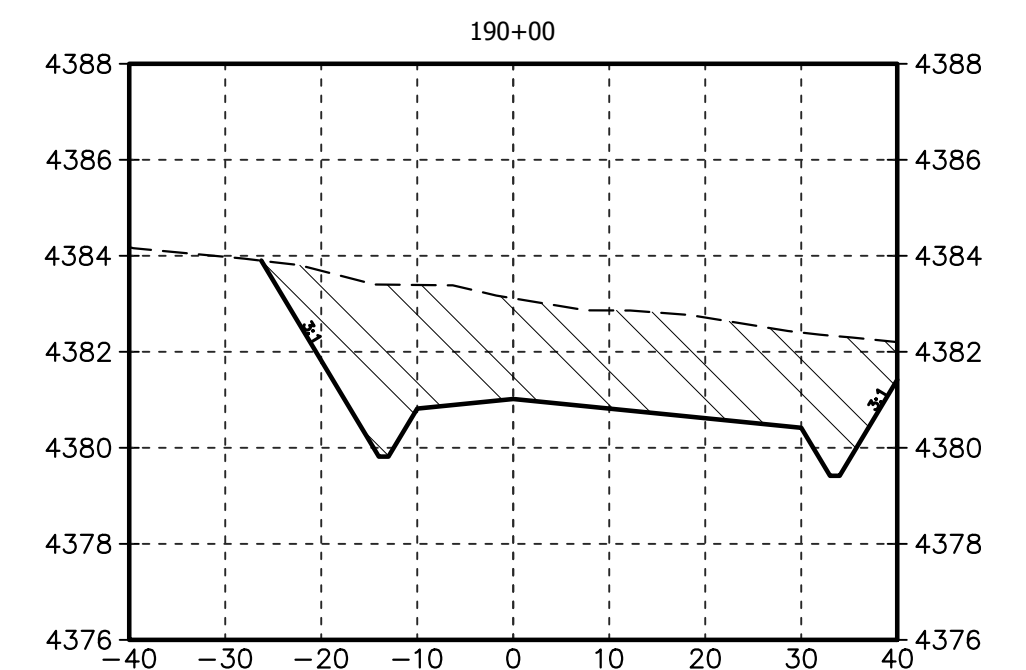
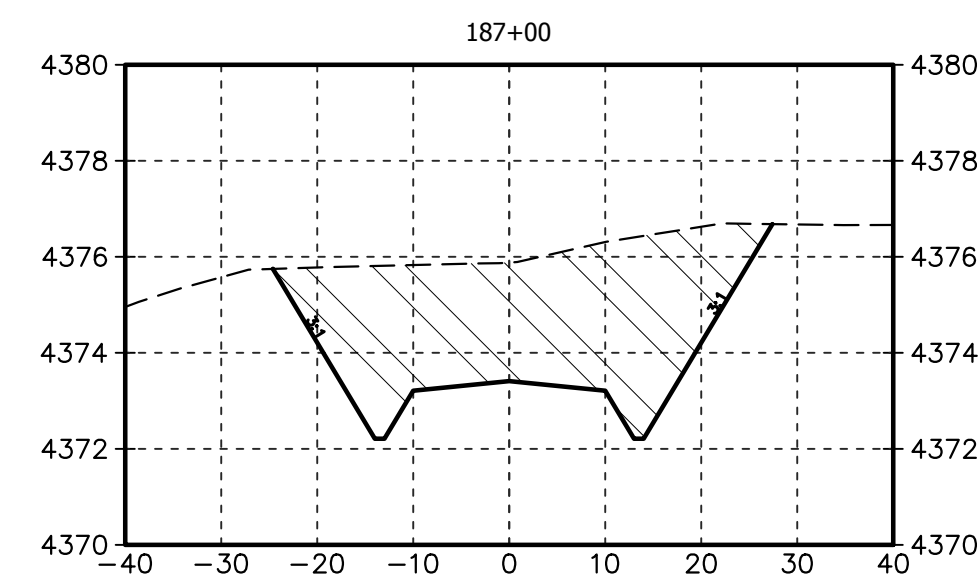
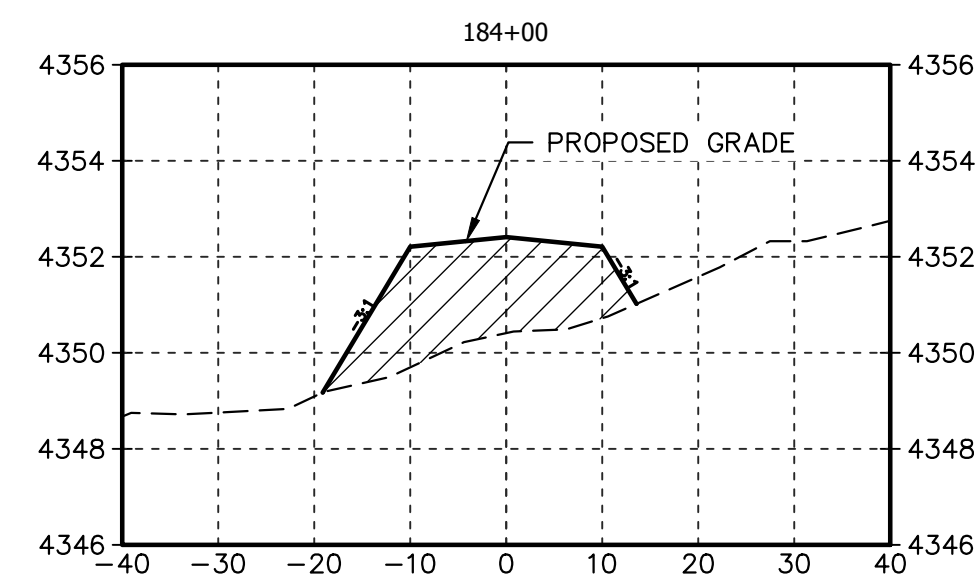
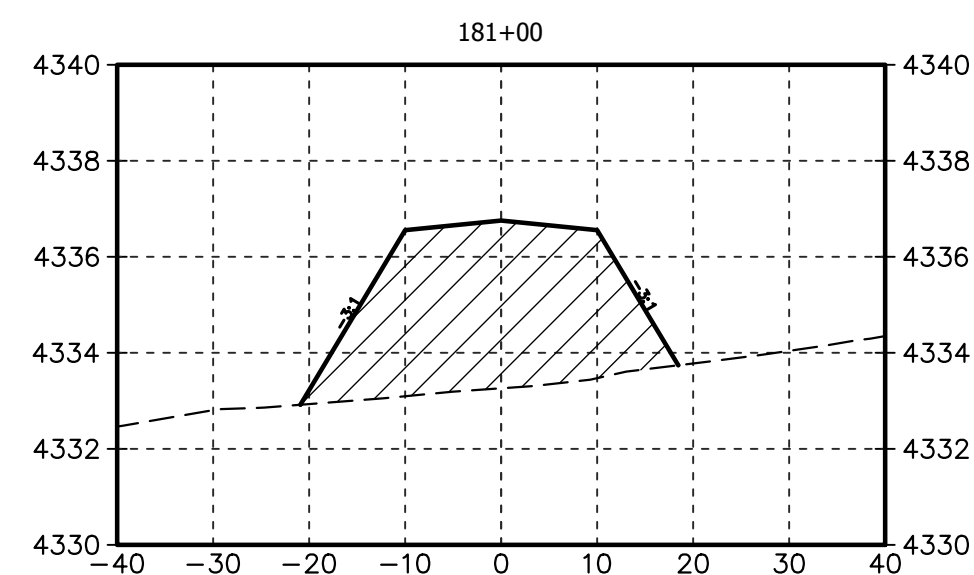
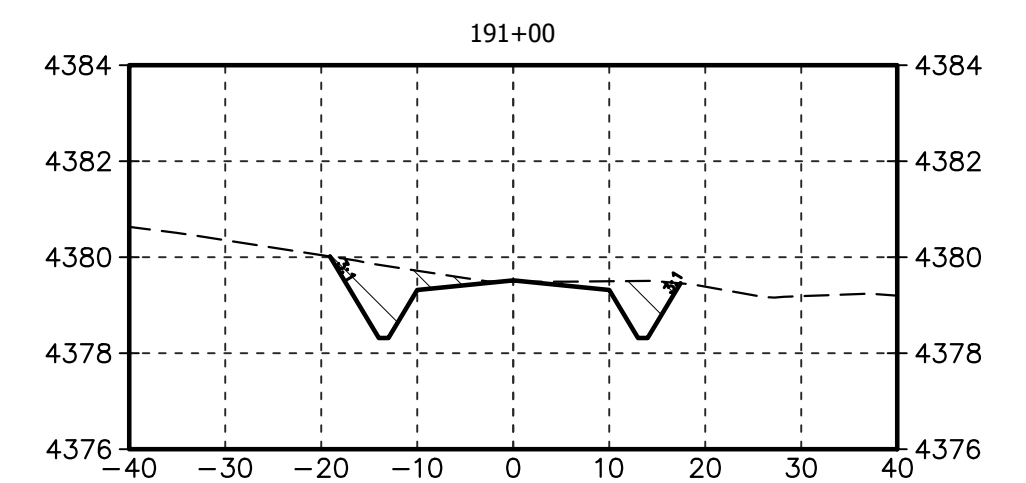
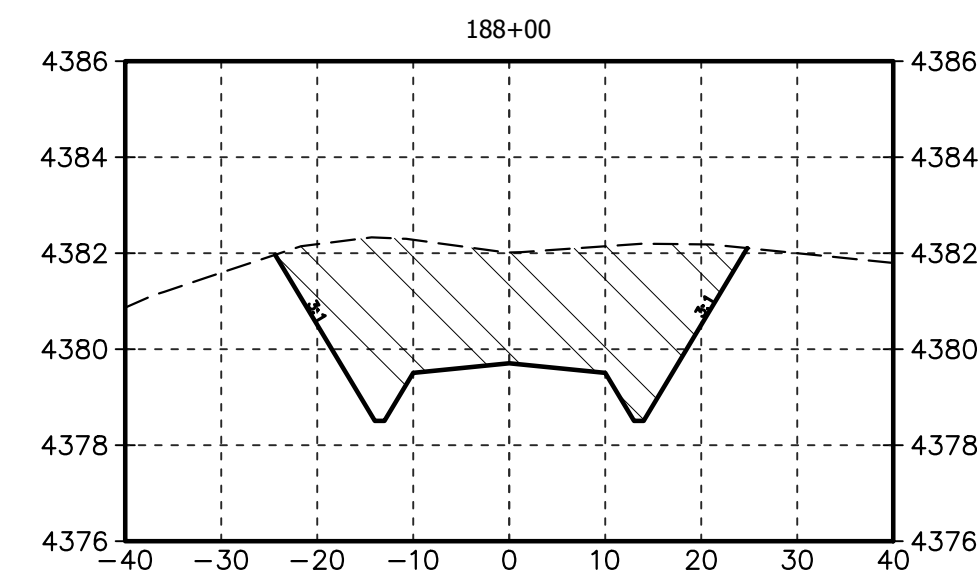
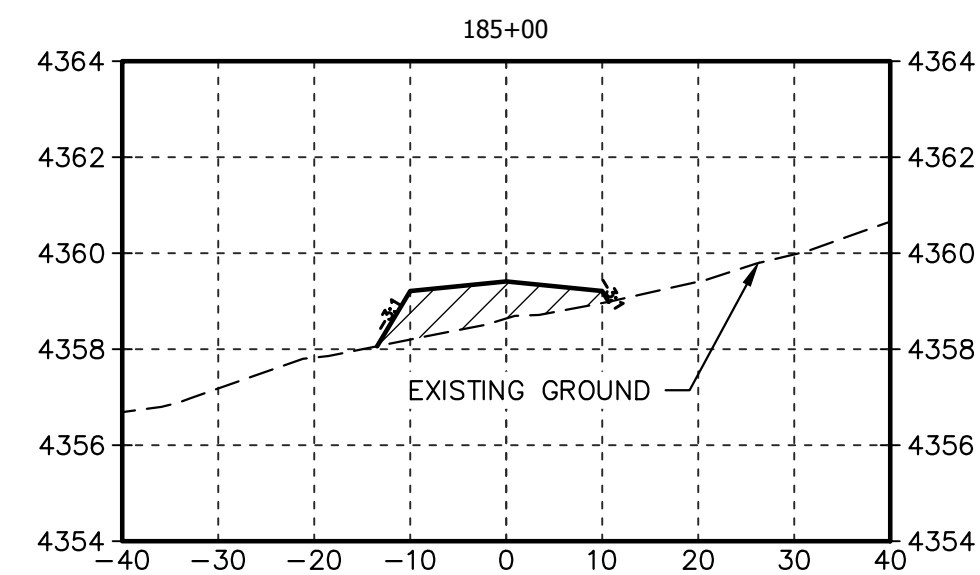
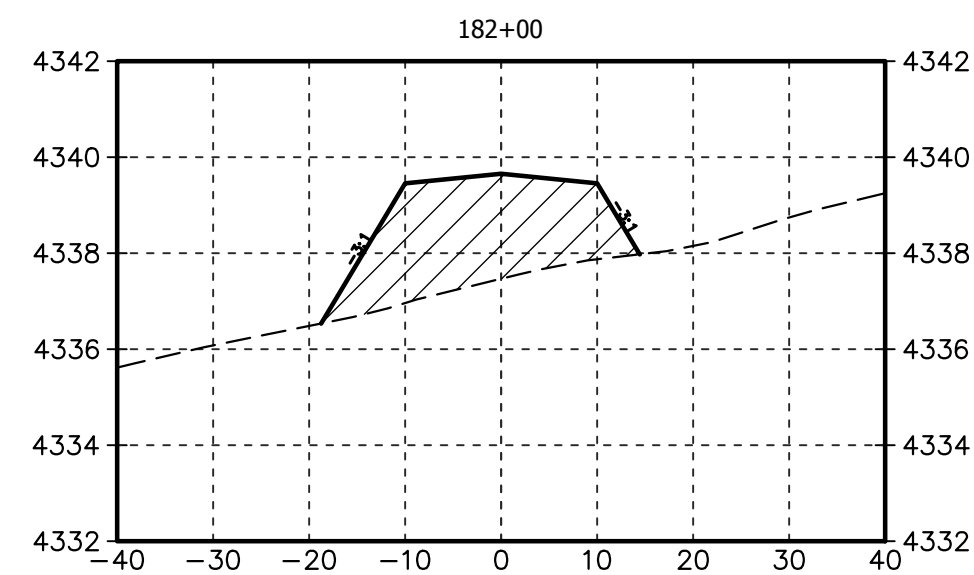


SCALE 1" = 20' VERT 1" = 4'
WHEN PLOTTED AT 22x34





REFERENCE DRAWINGS				REVISIONS								<div>Carbon America</div>		Washington County, Colorado					
														DENOVA CIVIL ROADWAY SECTIONS STA: 152+00 TO 163+00					
												<div>TETRA TECH ROONEY</div> <div>(303) 792-5911</div>		SCALE: 1" = 20'		DWG. NUMBER: 3671-C-6004		REV: 0	
-	-		0	ISSUED FOR CONSTRUCTION				CEF	11-17-2022	RML	11-17-2022	ZB	11-17-2022						
DWG. NO.	DESCRIPTION			NO.	DESCRIPTION				BY	DATE	CHK	DATE	APP	DATE					

Washington County, Colorado		
DENOVA CIVIL ROADWAY SECTIONS STA: 164+00 TO 179+00		
SCALE: 1" = 20'	DWG. NUMBER: 3671-C-6005	REV: 0

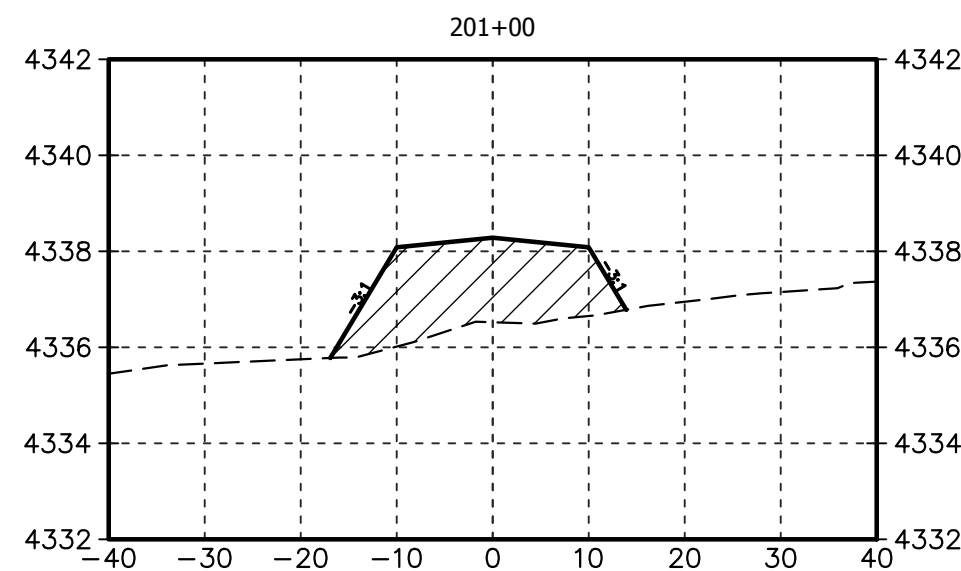
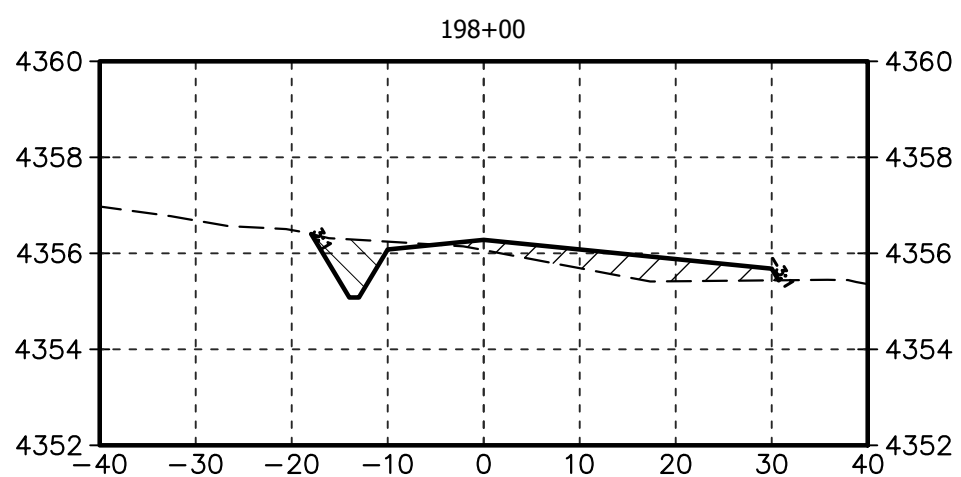
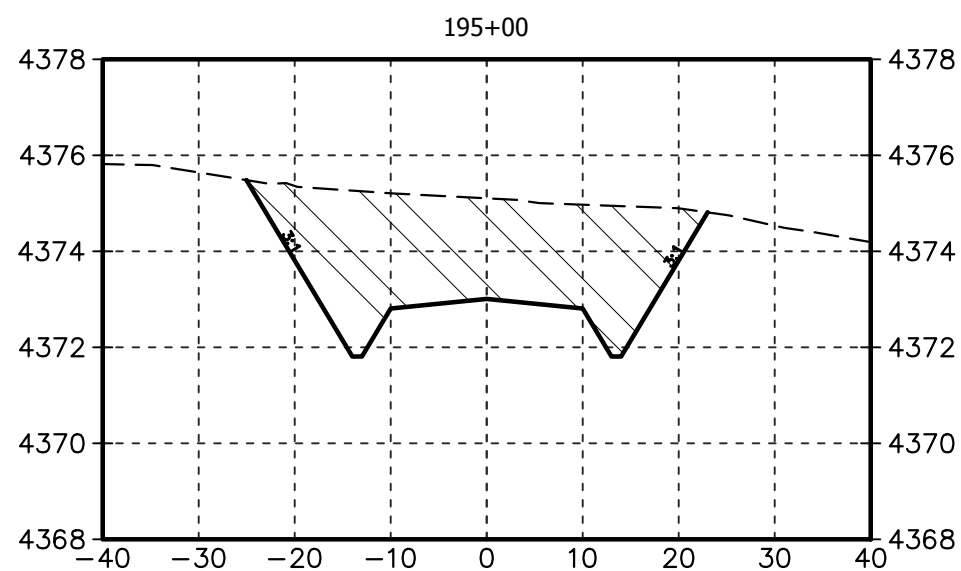
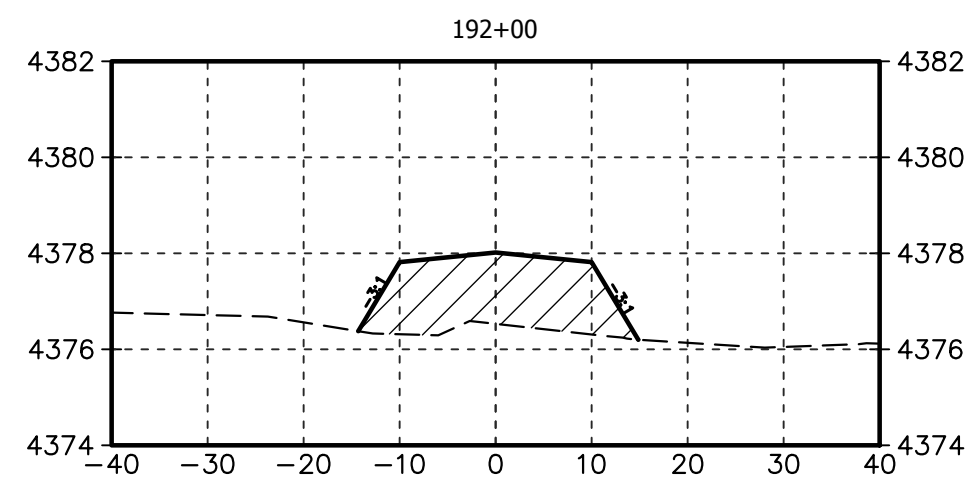
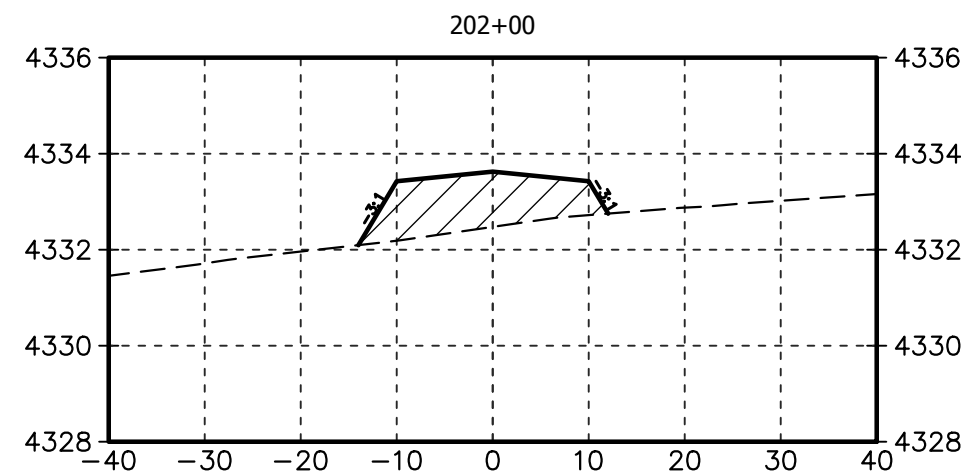
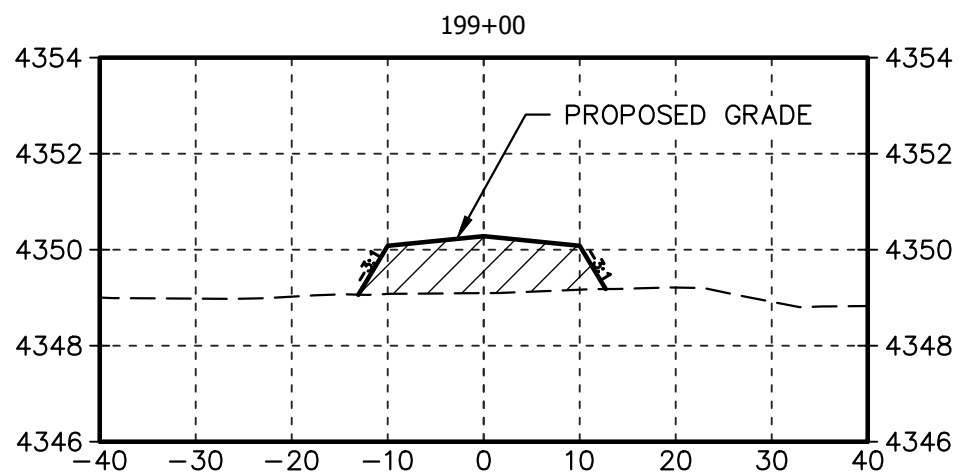
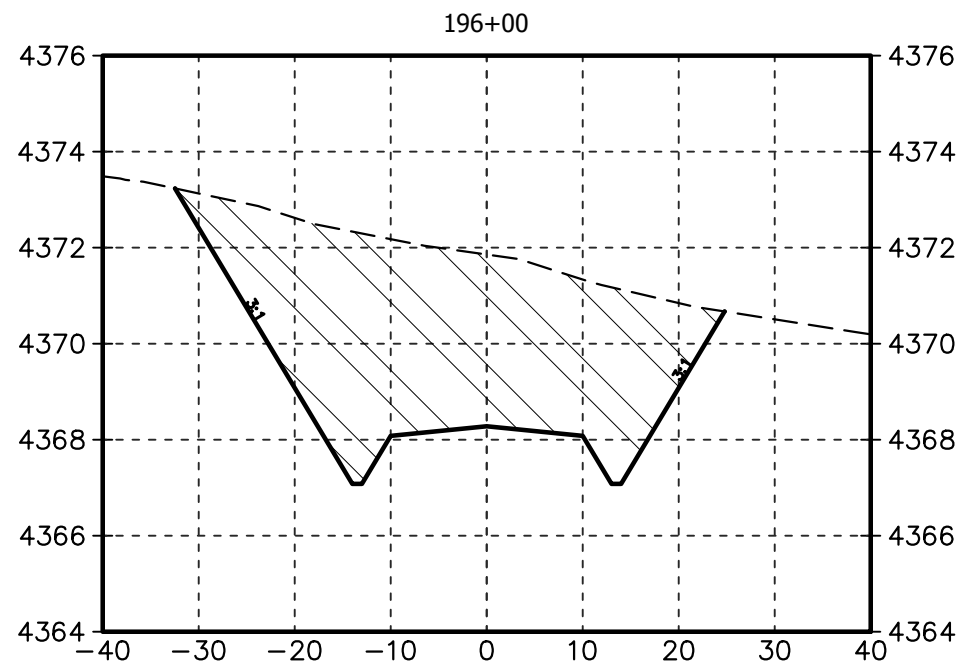
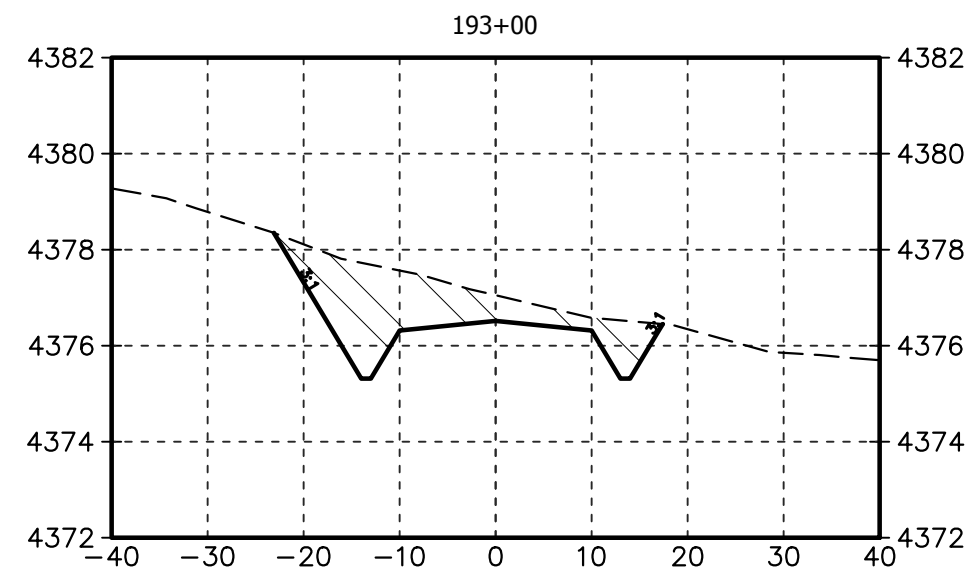
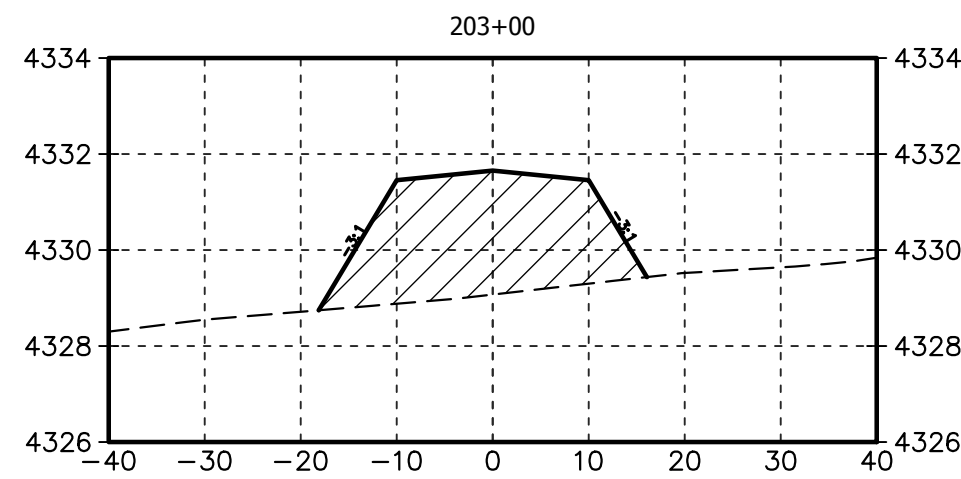
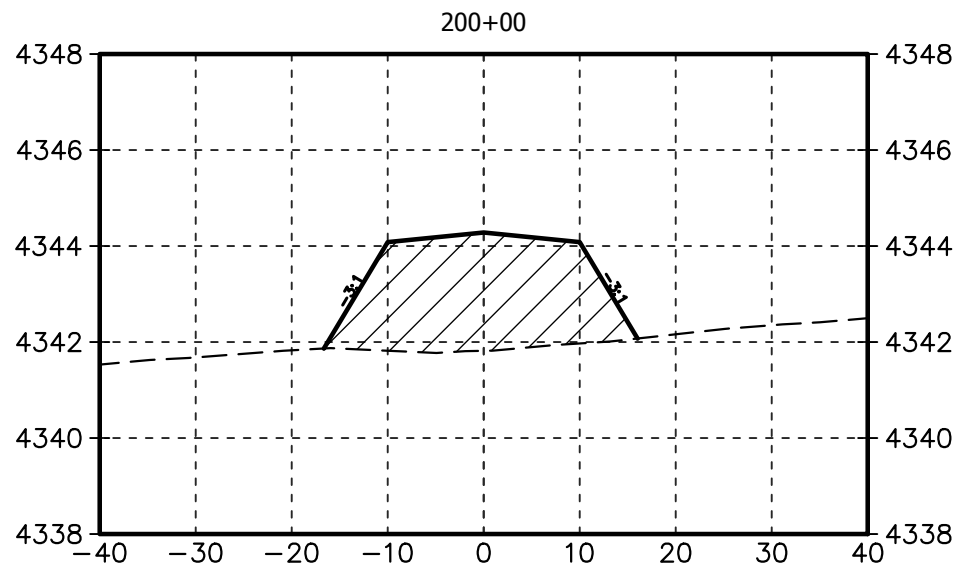
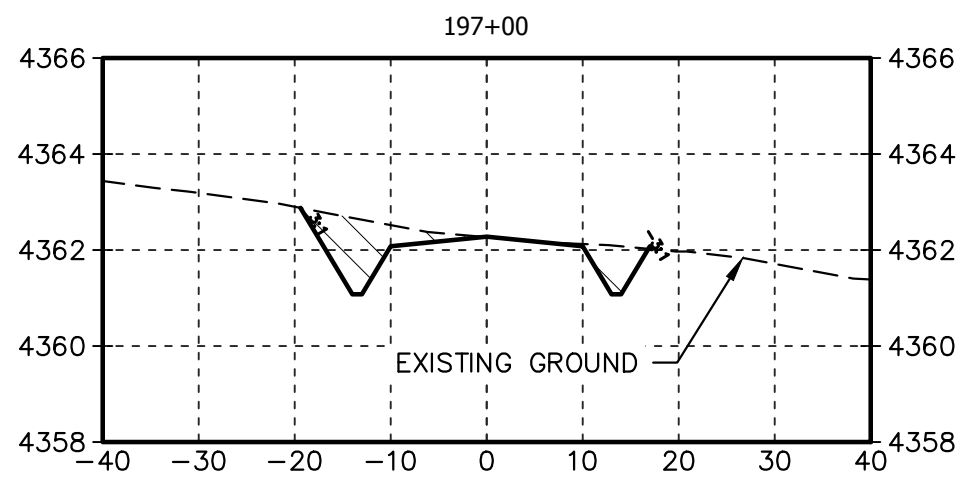
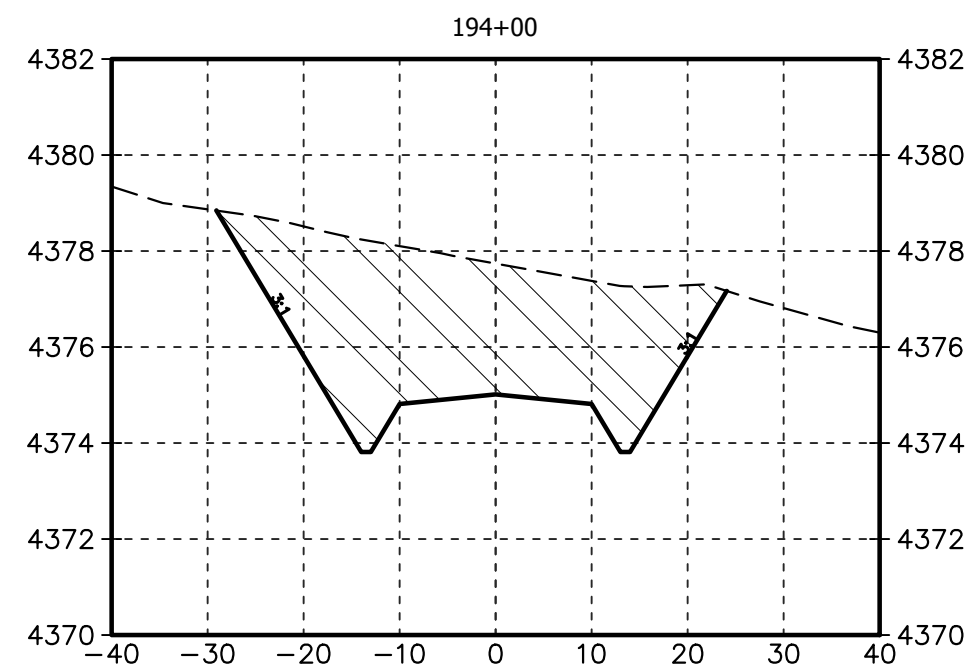


SCALE 1" = 20' VERT 1" = 4'
WHEN PLOTTED AT 22x34



REFERENCE DRAWINGS			REVISIONS												Washington County, Colorado			
																DENOVA CIVIL ROADWAY SECTIONS STA: 180+00 TO 191+00		
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-	-	0	ISSUED FOR CONSTRUCTION	CEF	11-17-2022	RML	11-17-2022	ZB	11-17-2022									
DWG. NO.	DESCRIPTION	NO.	DESCRIPTION	BY	DATE	CHK	DATE	APP	DATE									

Plot Date: 11/16/2022 6:10:23 PM Plot By: Fries, Chris File Name: C:\Users\chris.fries\ACCDocs\Tetra Tech Inc\Carbon America - DeNova (204-3671)\Project Files\00 Cadd\02 Civil\3671-C-6007.dwg



SCALE 1" = 20' VERT 1" = 4'
WHEN PLOTTED AT 22x34



REFERENCE DRAWINGS	
-	-
DWG. NO.	DESCRIPTION

REVISIONS								
A	ISSUED FOR CONSTRUCTION		CEF	11-17-2022	RML	11-17-2022	ZB	11-17-2022
NO.	DESCRIPTION		BY	DATE	CHK	DATE	APP	DATE



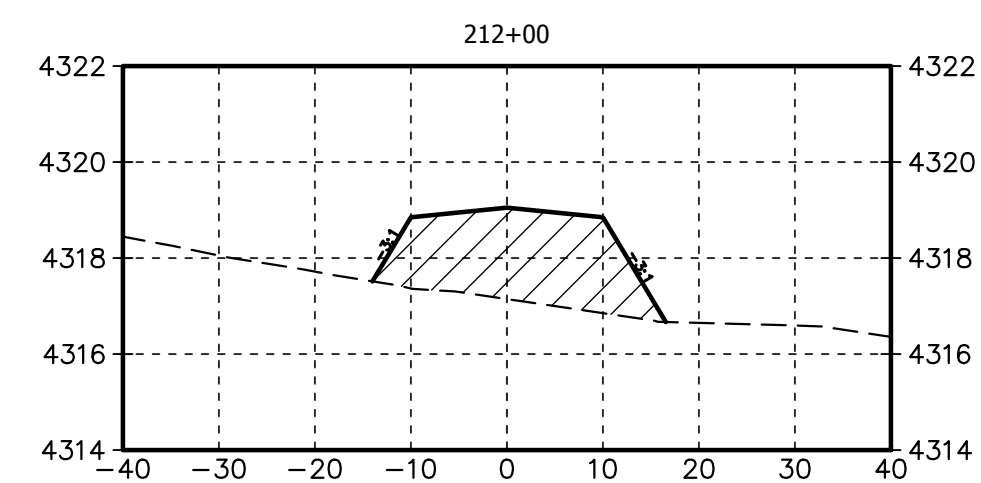
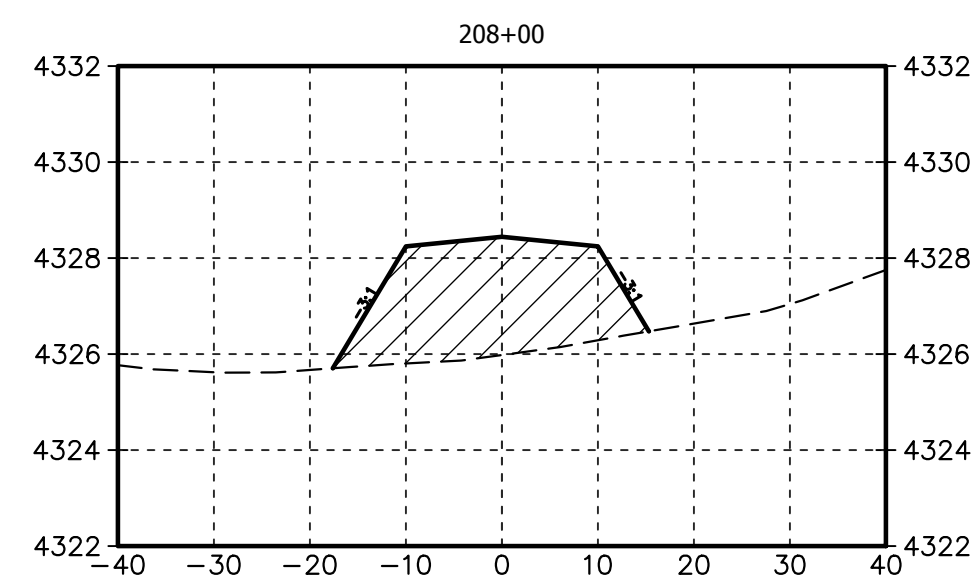
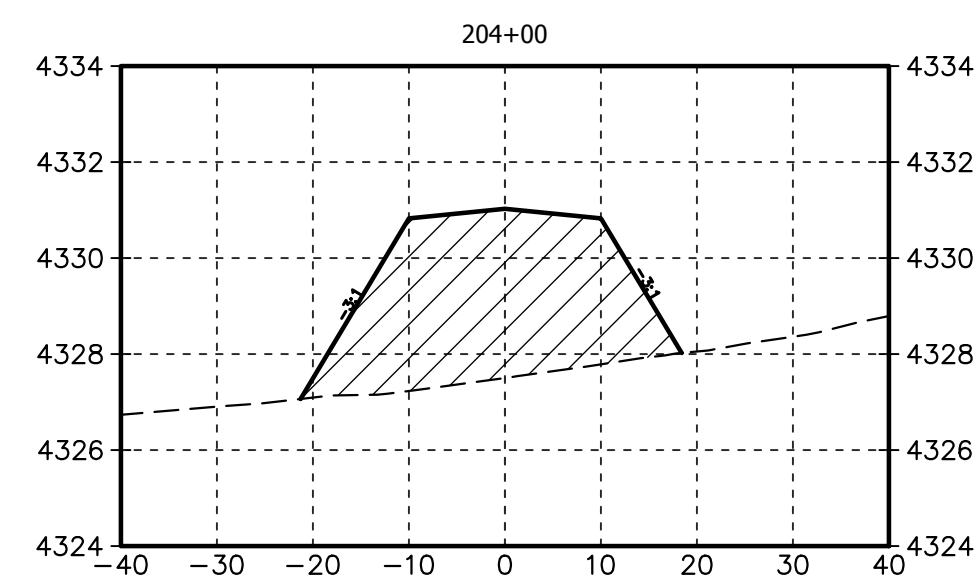
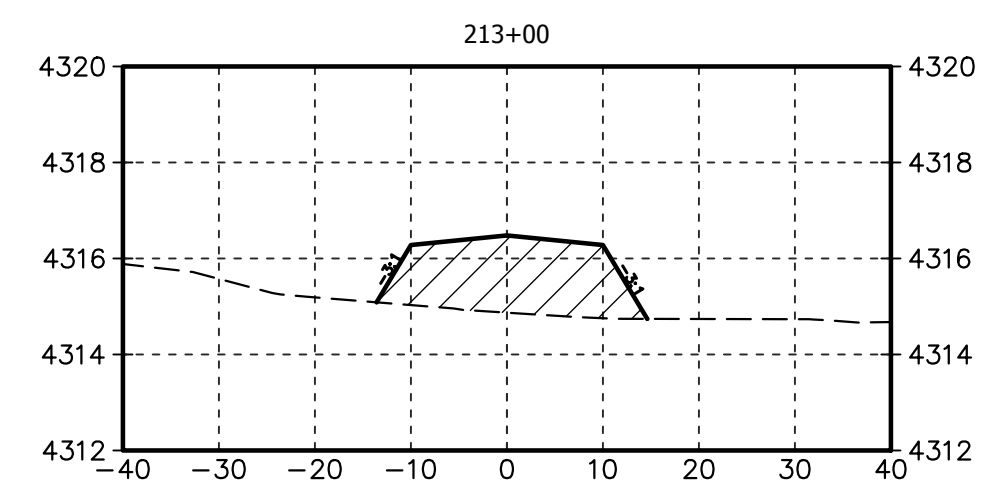
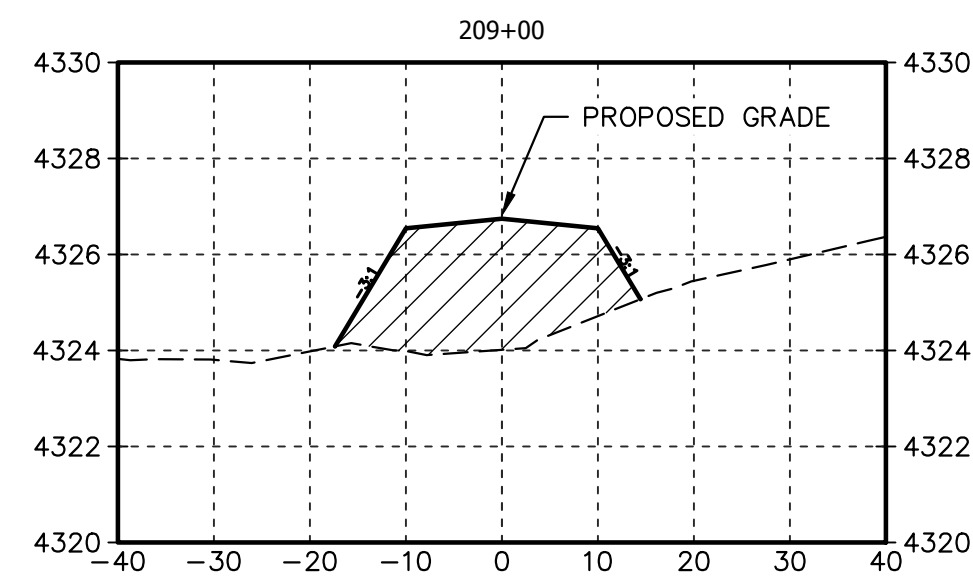
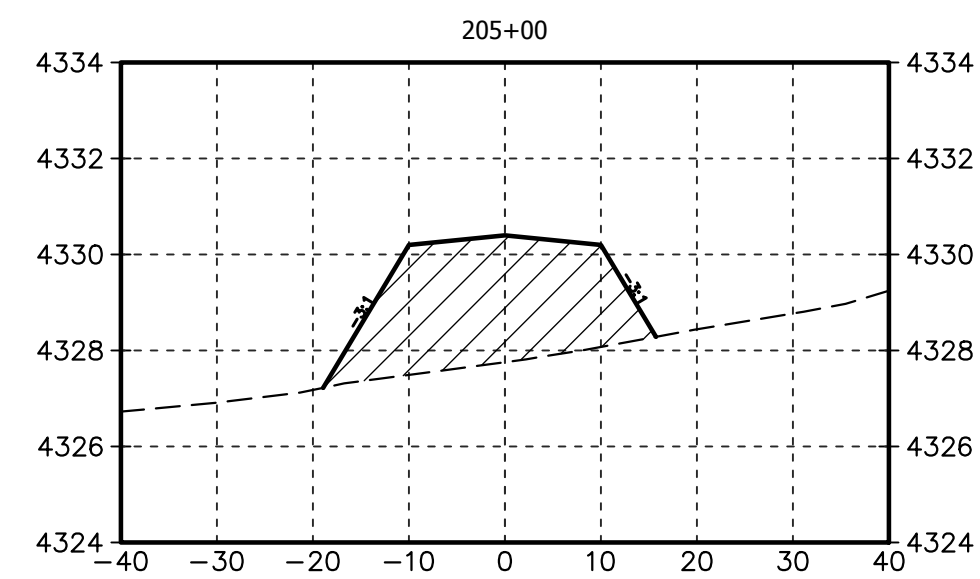
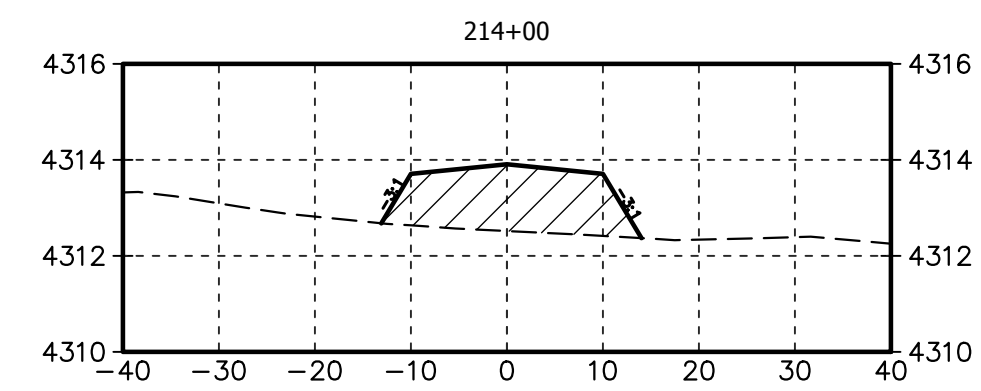
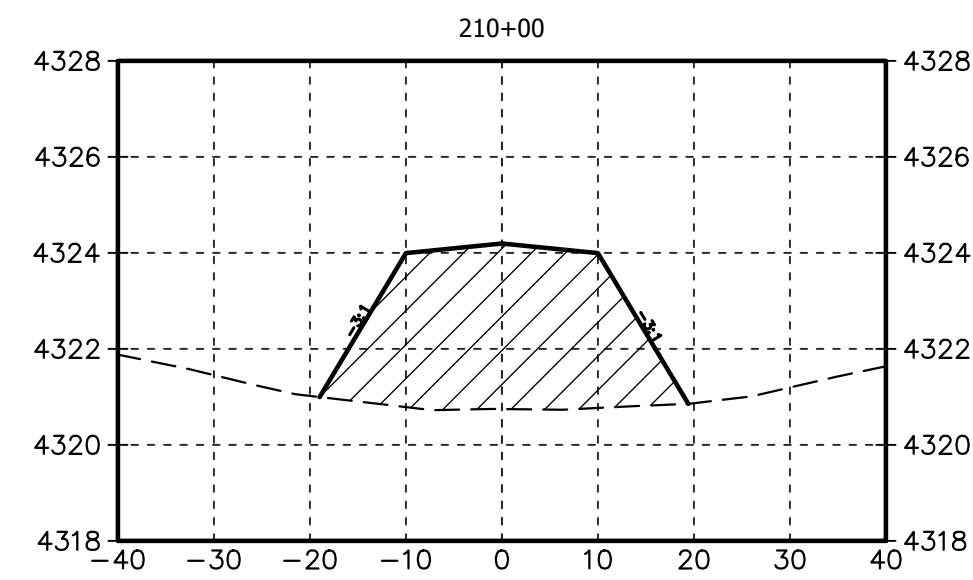
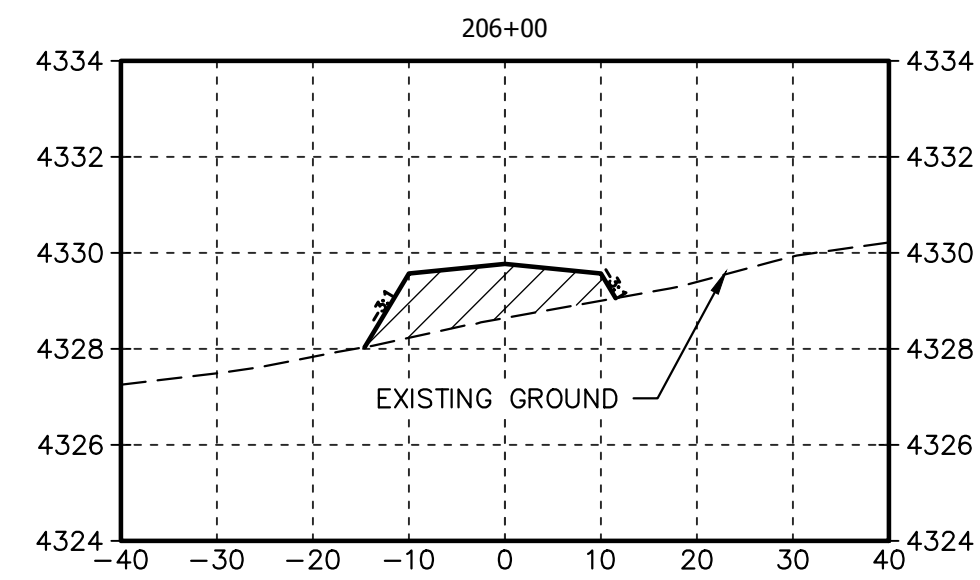
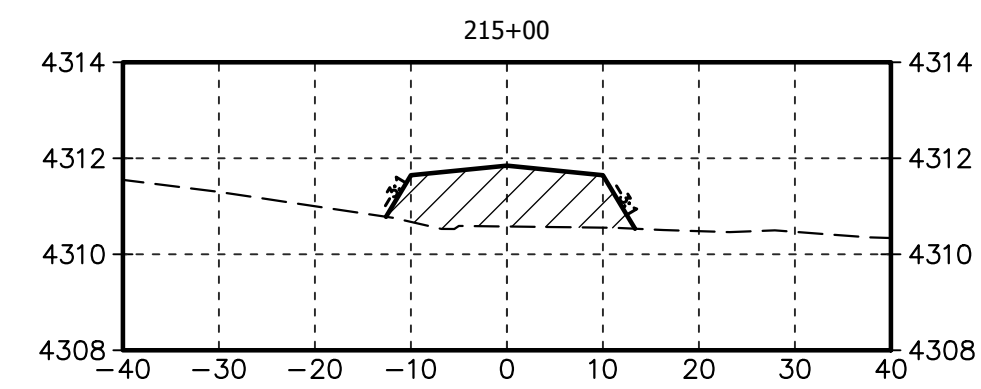
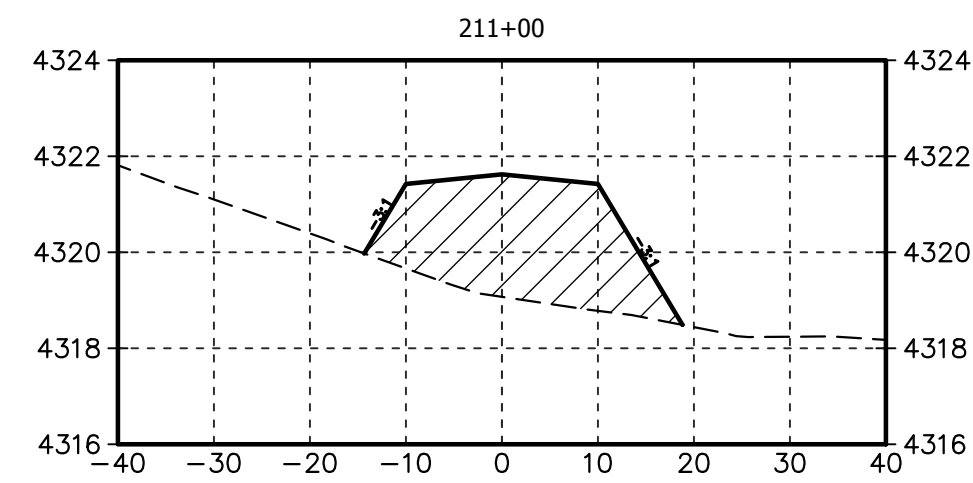
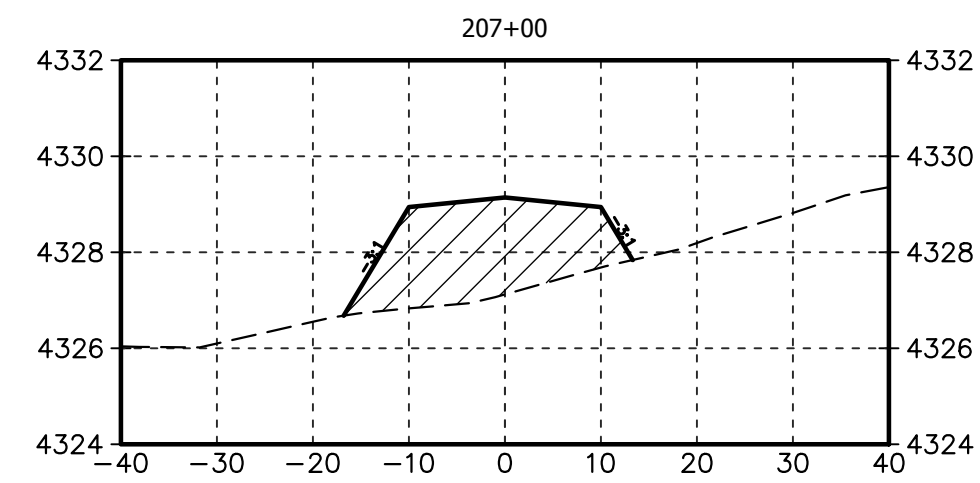
Washington County, Colorado

DENOVA CIVIL
ROADWAY SECTIONS
STA: 192+00 TO 203+00

SCALE: 1" = 20'

DWG. NUMBER: 3671-C-6007

REV: 0

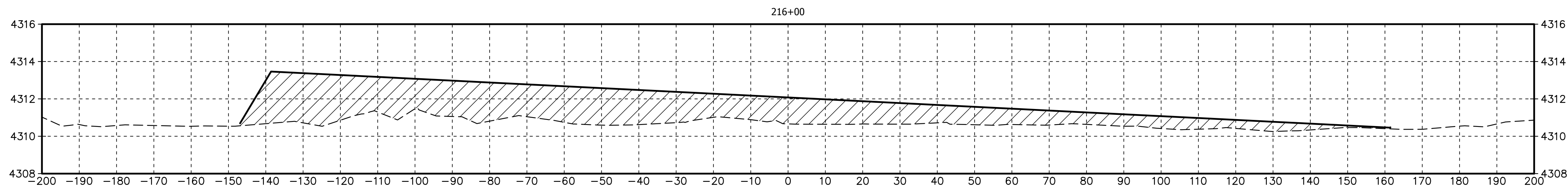
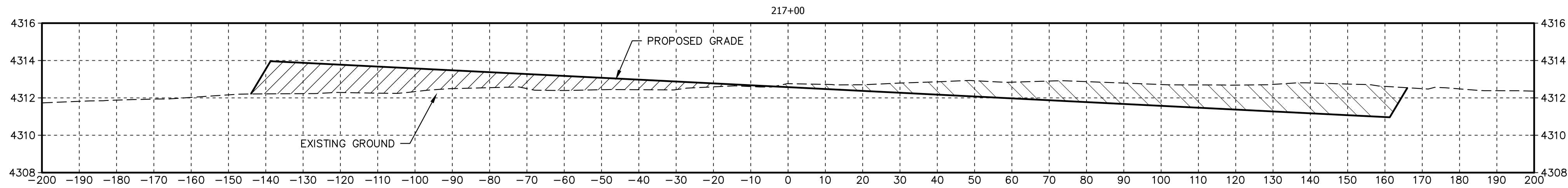
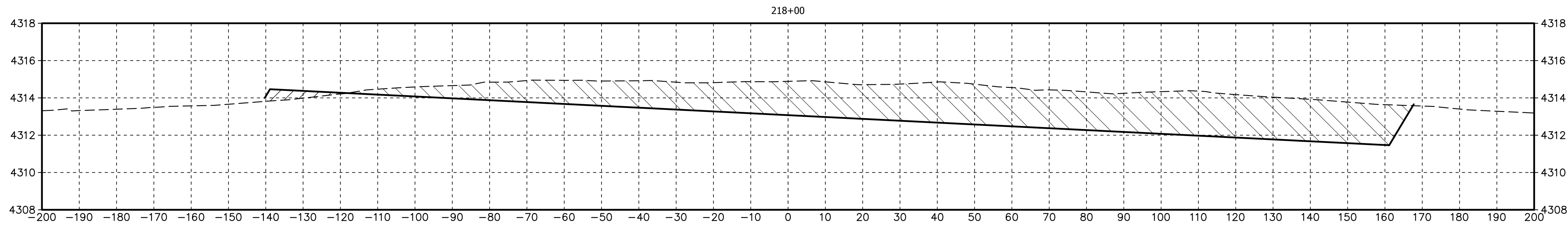


SCALE 1" = 20' VERT 1" = 4'
WHEN PLOTTED AT 22x34



REFERENCE DRAWINGS		REVISIONS									<div>Carbon America</div>	Washington County, Colorado		
										DENOVA CIVIL ROADWAY SECTIONS STA: 204+00 TO 215+00				
-	-	0	ISSUED FOR CONSTRUCTION	CEF	11-17-2022	RML	11-17-2022	ZB	11-17-2022	<div>Tt TETRA TECH ROONEY (303) 792-5911</div>	SCALE: 1" = 20'	DWG. NUMBER: 3671-C-6008	REV: 0	
DWG. NO.	DESCRIPTION	NO.	DESCRIPTION	BY	DATE	CHK	DATE	APP	DATE					

Plot Date: 11/16/2022 4:30:25 PM Plot By: Fries, Chris File Name: C:\Users\chris.fries\ACCDocs\Tetra Tech Inc\Carbon America - DeNova (204-3671)\Project Files\00 Cadd\02 Civil\3671-C-6009.dwg

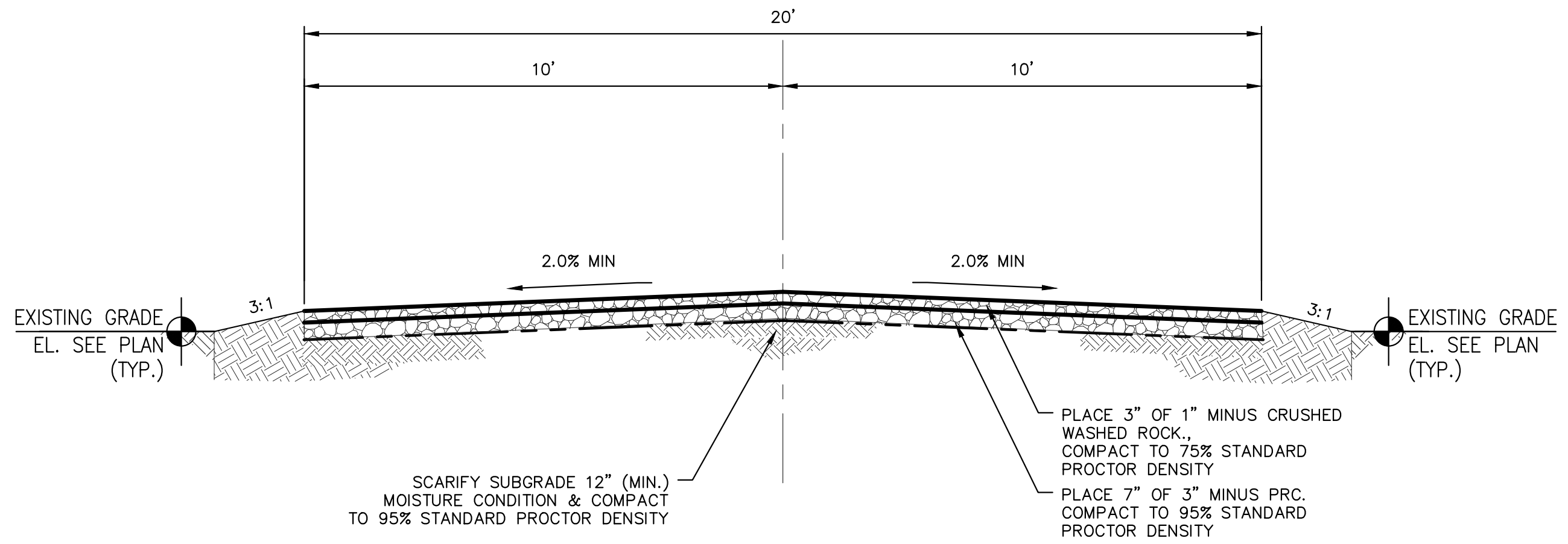


SCALE 1" = 20' VERT 1" = 4'
WHEN PLOTTED AT 22x34



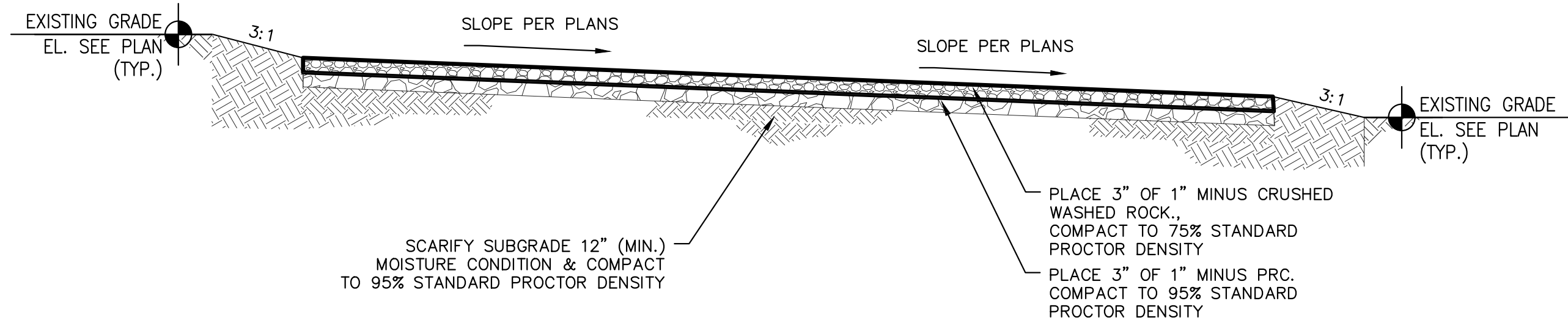
REFERENCE DRAWINGS				REVISIONS								<div>Carbon America</div>		Washington County, Colorado				
														DENOVA CIVIL ROADWAY SECTIONS STA: 216+00 TO 218+00				
														<div><div>Tt</div><div>TETRA TECH ROONEY</div><div>(303) 792-5911</div></div>				
-	-			0	ISSUED FOR CONSTRUCTION				CEF	11-17-2022	RML	11-17-2022	ZB				11-17-2022	
DWG. NO.	DESCRIPTION			NO.	DESCRIPTION				BY	DATE	CHK	DATE	APP	DATE	SCALE: 1" = 20'		DWG. NUMBER: 3671-C-6009	REV: 0

Plot Date: 11/16/2022 4:27:33 PM Plot By: Fries, Chris File Name: C:\Users\chris.fries\OneDrive\Tetra Tech\Carbon America - DeNova (204-3671)\Project Files\00 Cadd\02 Civil\3671-C-7000.dwg



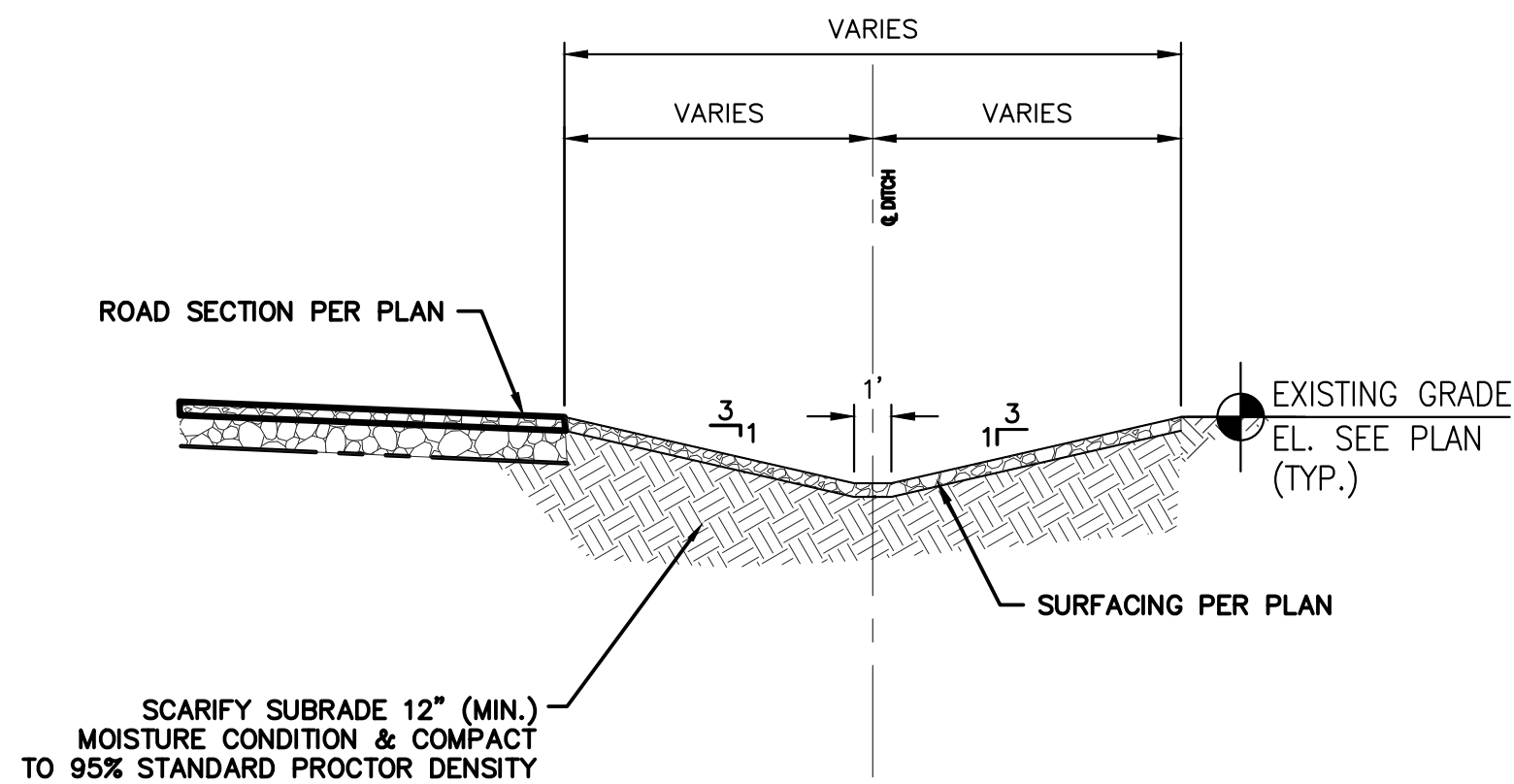
TYPICAL 20' ACCESS ROAD SECTION

NTS



TYPICAL SITE SECTION

NTS



ROADSIDE DITCH SECTION

NTS

1. CONTRACTOR SHALL PERFORM FINAL GRADING TO RESTORE THE WORK AREA TO THE FINAL CONTOURS SHOWN ON GRADING DRAWINGS.
2. WHERE PERSONNEL ENTER EXCAVATIONS 5 FEET OR MORE IN DEPTH, THE EXCAVATION SHALL BE PROTECTED BY A SUPPORT SYSTEM OF SLOPING SHORING OR BRACING MEETING OSHA STANDARDS. SUCH PROTECTION SHALL ALSO BE PROVIDED IN EXCAVATIONS LESS THAN 5 FEET DEEP WHERE HAZARDOUS EARTH MOVEMENT MAY BE EXPECTED. SHORING OR BRACING SYSTEMS SHALL BE INSPECTED DAILY AND AFTER RAINSTORMS OR OTHER HAZARD-INCREASING OCCURRENCE.
3. NO CONTRACTOR SHALL PERFORM ANY GRADING OR GRUBBING OPERATION SO AS TO CAUSE FALLING ROCKS, SOIL OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW ONTO ADJOINING PROPERTIES, STREETS, OR NATURAL WATERCOURSES.
4. THE LIMITS OF THE AREA TO BE GRUBBED AND GRADED SHALL BE FLAGGED BEFORE COMMENCEMENT OF THE GRUBBING WORK.
5. WHERE APPLICABLE AND FEASIBLE, THE MEASURES TO CONTROL EROSION AND OTHER POLLUTANTS SHALL BE IN PLACE BEFORE ANY GRUBBING WORK IS INITIATED.
6. TEMPORARY EROSION CONTROLS SHALL NOT BE REMOVED BEFORE PERMANENT EROSION CONTROLS ARE IN PLACE AND ESTABLISHED.
7. IF THE GRADING OR GRUBBING WORK INVOLVES CONTAMINATED SOIL, THEN ALL GRUBBING WORK SHALL BE DONE IN CONFORMANCE WITH APPLICABLE STATE AND FEDERAL REQUIREMENTS.
8. ALL STRUCTURAL BACKFILL SHALL BE PLACED UNDER THE DIRECTION OF THE OWNER'S REPRESENTATIVE.
9. ALL BACKFILL MATERIAL SHALL BE THOROUGHLY COMPACTED AND MOISTURE CONDITIONED TO 95% STANDARD PROCTOR DENSITY.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE THROUGHOUT THE PROJECT.



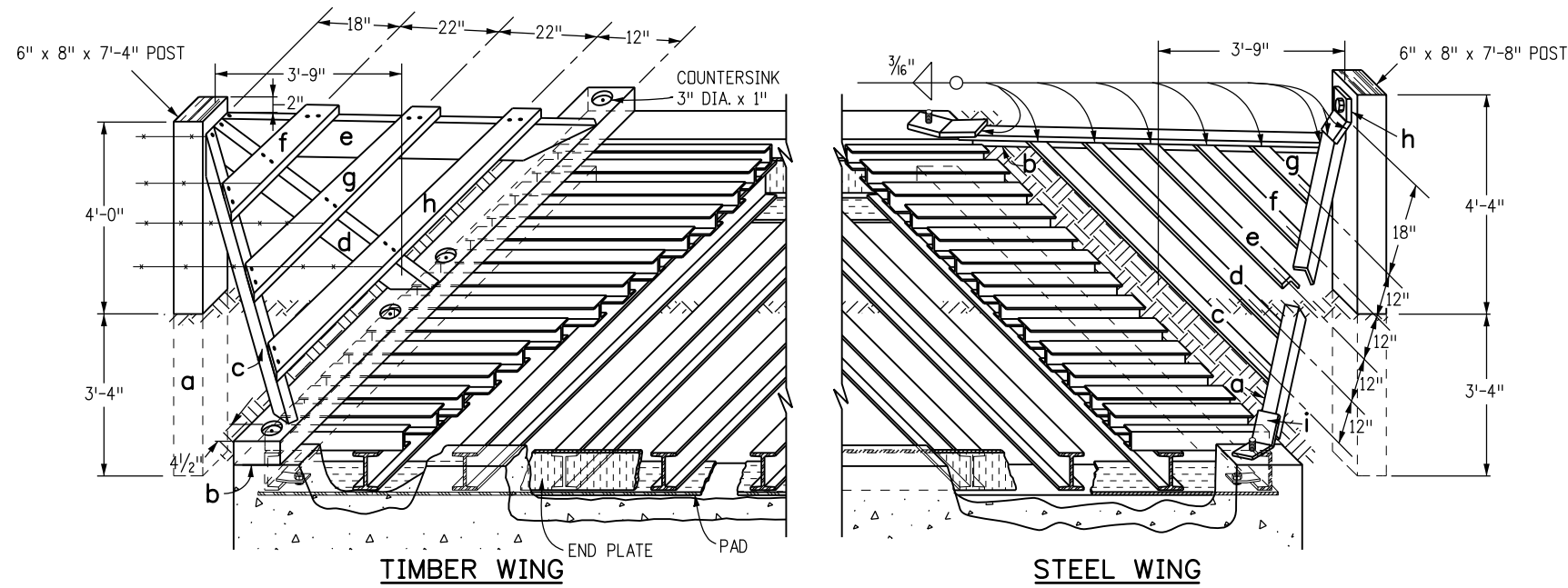
REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION
-	-

REVISIONS	
NO.	DESCRIPTION
0	ISSUED FOR CONSTRUCTION



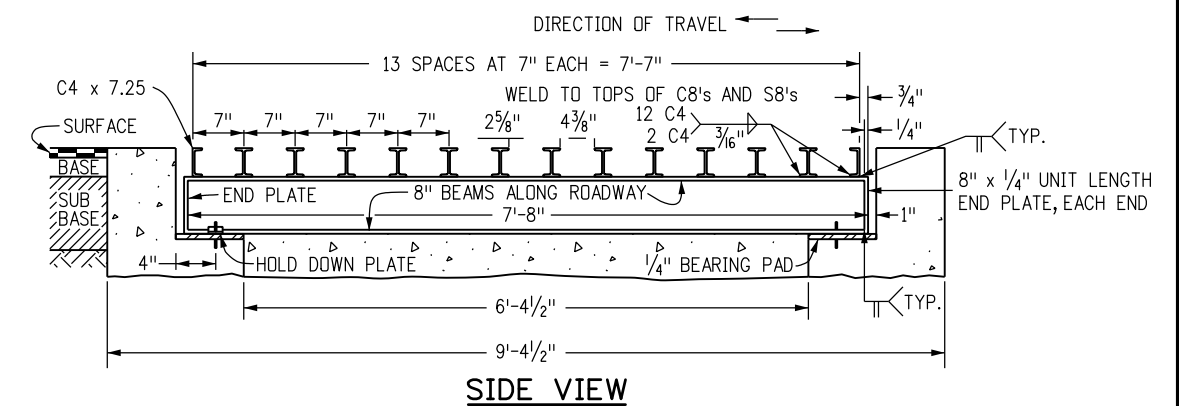
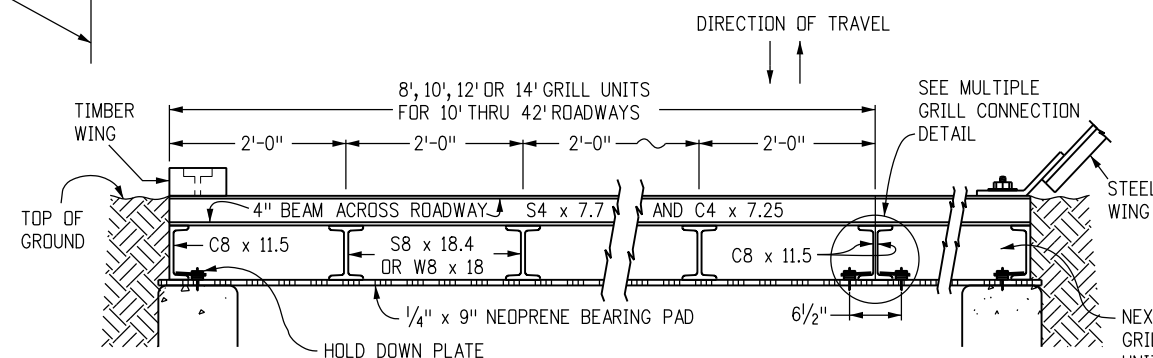
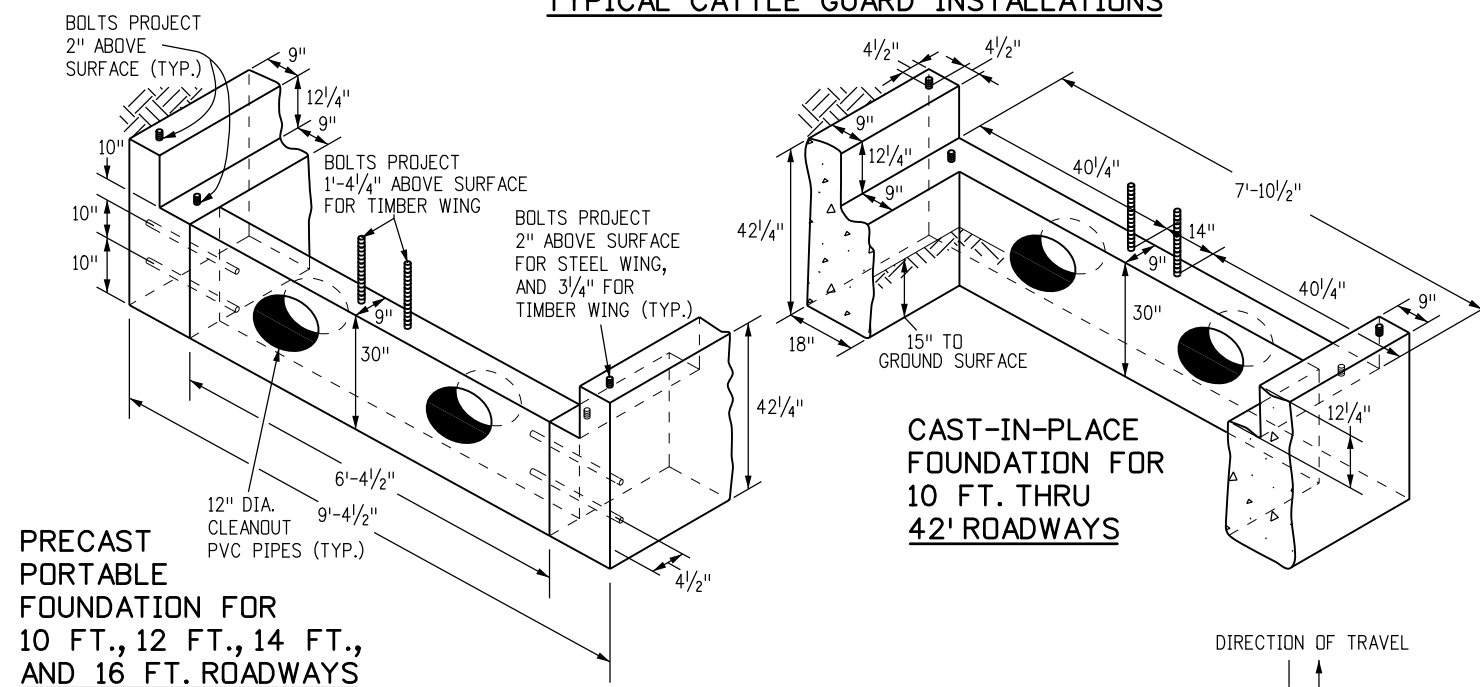
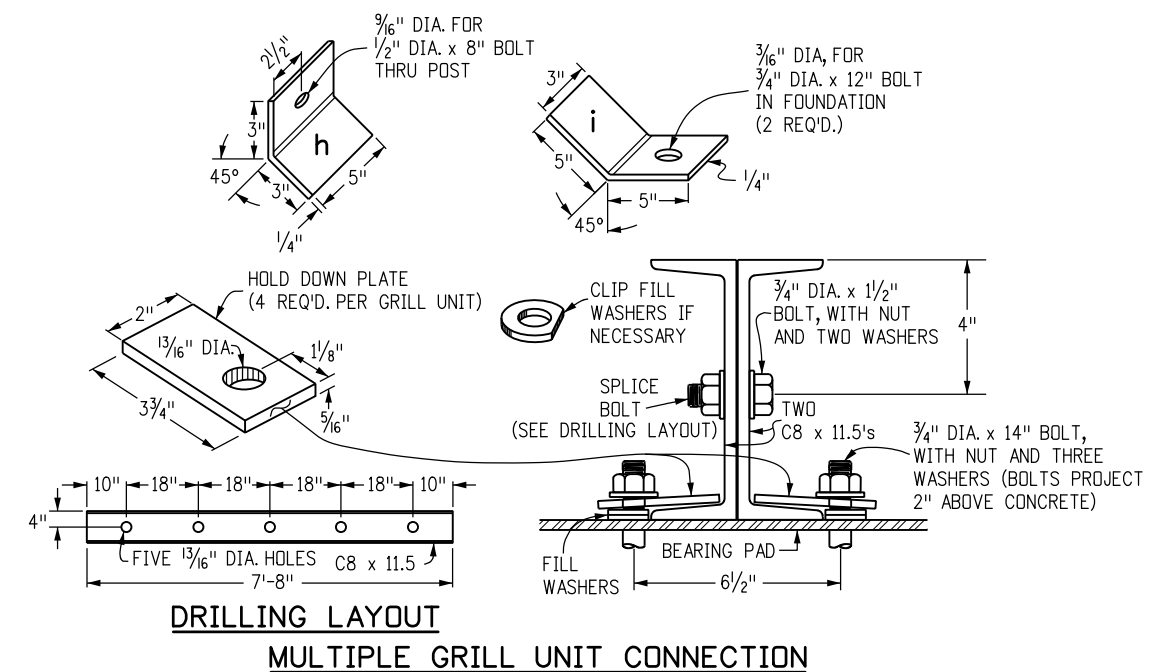
(303) 792-5911

Washington County, Colorado		
DENOVA CIVIL TYPICAL DETAILS		
SCALE: NTS	DWG. NUMBER: 3671-C-7000	REV: 0



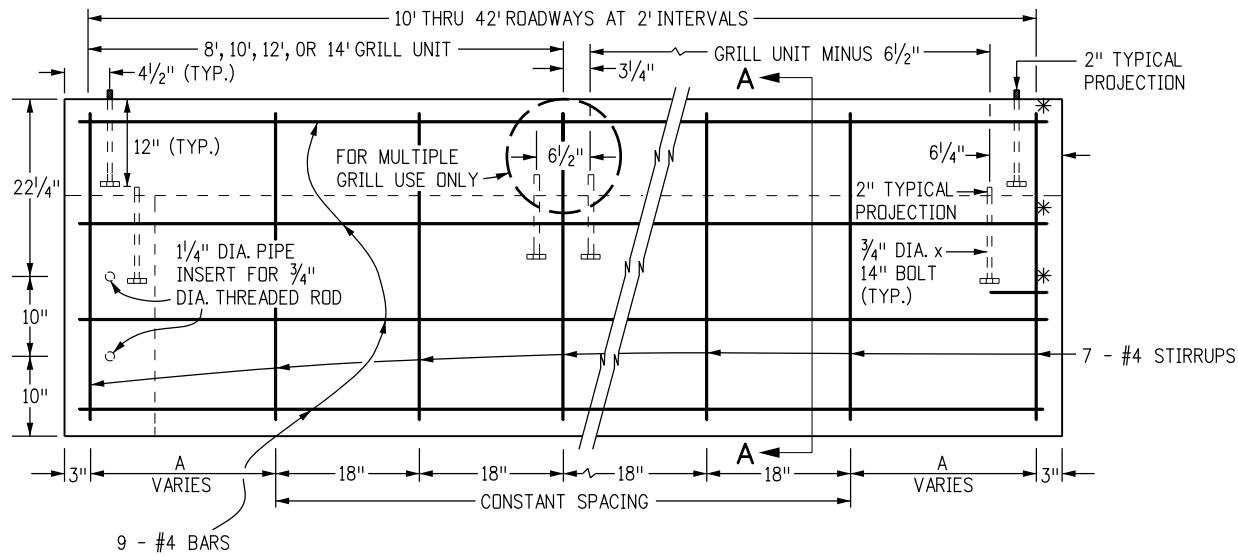
GENERAL NOTES

1. CONCRETE SHALL BE CLASS B. FOUNDATION MAY BE CAST-IN-PLACE OR PRECAST.
2. REINFORCING BARS SHALL BE #4, GRADE 60.
3. ALL TIMBER SHALL BE TREATED IN CONFORMANCE WITH ASSHTO M 133 AND AWP A C14.
4. WING POSTS MAY BE MADE FROM 8 IN. ROUND NATIVE TIMBER.
5. ALL STRUCTURAL STEEL SHALL BE FABRICATED AND PAINTED WITH ALUMINUM PAINT IN ACCORDANCE WITH SECTION 509. ALL HARDWARE SHALL BE GALVANIZED IN CONFORMANCE WITH AASHTO M 111 OR PAINTED WITH ZINC-RICH PAINT MEETING MILITARY SPECIFICATION DOD-P-21035
6. ALL STRUCTURAL STEEL SHALL CONFORM TO AASHTO M 270 (ASTM A 709) GRADE 36.
7. WELDING SHALL CONFORM TO THE AWS STRUCTURAL WELDING CODE AND AASHTO STANDARD SPECIFICATIONS FOR WELDING OF STRUCTURAL STEEL HIGHWAY BRIDGES.
8. WHEN A CATTLE GUARD IS TO BE INSTALLED IN IMPERVIOUS MATERIAL, ADEQUATE DRAINAGE SHALL BE PROVIDED TO INSURE AGAINST POSSIBLE SUBGRADE DAMAGE. DRAINAGE DETAILS SHALL BE AS SHOWN ON THE PLANS. AN OUTLET PIPE MAY BE CONSIDERED.
9. TYPE OF WING (TIMBER OR STEEL) SHALL BE STEEL UNLESS OTHERWISE SHOWN ON THE PLANS.
10. STRUCTURE EXCAVATION AND STRUCTURE BACKFILL WILL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK.
11. ALTERNATIVE CATTLE GUARDS MAY BE CONSTRUCTED UPON APPROVAL BY THE PROJECT ENGINEER.



WELDED GRILL CROSS SECTIONS

Computer File Information		Sheet Revisions		Colorado Department of Transportation 2829 West Howard Place CDOT HQ, 3rd Floor Denver, CO 80204 Phone: 303-757-9021 FAX: 303-757-9868 Project Development Branch JBK	CATTLE GUARD	STANDARD PLAN NO.	
Creation Date: 07/31/19		Date:	Comments			M-611-1	
Designer Initials: JBK	(R-X)					Standard Sheet No. 1 of 2	
Last Modification Date: 07/31/19	(R-X)					Project Sheet Number:	
Detailer Initials: LTA	(R-X)						
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English					Issued by the Project Development Branch: July 31, 2019		



PRECAST PORTABLE FOUNDATION

CAST-IN-PLACE FOUNDATION

ELEVATION OF FOUNDATION

* WHEN CAST IN PLACE, LONGITUDINAL BARS EXTENDING FROM AND INTO THE LATERAL SUPPORT SHALL BE BENT 90° WITH A 2 IN. RADIUS AND CONTINUE PERPENDICULAR 10 IN. FROM THE BEND

a	- 6" x 8" x 7'-4"
b	- 4" x 8" x 9'-4½"
c	- 2" x 6" x 6'-7"
d	- 2" x 6" x 5'-8"
e	- 2" x 6" x 6'-7"
f	- 2" x 6" x 2'-5"
g	- 2" x 6" x 4'-4"
h	- 2" x 6" x 6'-2"
16d NAILS (GALV.) - 2 LB.	

ONE TIMBER WING

a	- 2" x 2" x ¼" x 79"	63.26 LBS.
b	- 2" x 2" x ¼" x 79"	
c	- 2" x 2" x ¼" x 84"	
d	- 1½" x 1½" x ¼" x 69"	36.86 LBS.
e	- 1½" x 1½" x ¼" x 55"	
f	- 1½" x 1½" x ¼" x 40"	
g	- 1½" x 1½" x ¼" x 25"	
h	- 5" x 6" x ¼" x BAR - 2.13 LBS.	
i	- TWO 3" x 10" x ¼" x BARS - 4.25 LBS.	
6" x 8" x 7'-8" TIMBER POST		
TOTAL LBS. STEEL = ~106.5		

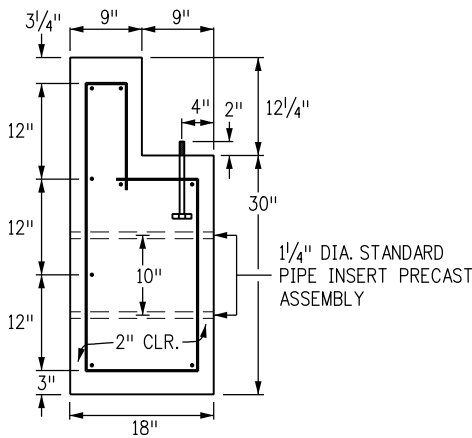
ONE STEEL WING
WING QUANTITIES

ROADWAY WIDTH (FT.)	USE GRILL UNITS (FT.)	PRECAST		CAST-IN-PLACE		A (IN.)	TOTAL GRILL WEIGHT (LBS.)
		CONCRETE (CU. YD.)	REINF. STEEL (LBS.)	CONCRETE (CU. YD.)	REINF. STEEL (LBS.)		
10	10	5.6	295	5.6	316	24	1946
12	12	6.5	342	6.5	364	18	2328
14	14	7.4	378	7.4	399	21	2170
16	8 8	8.1	414	8.1	435	24	3128
18	8 10			9.0	482	18	3434
20	10 10			9.8	518	21	3806
22	10 12			10.6	553	24	4274
24	12 12			11.5	601	18	4656
26	12 14			12.3	636	21	5038
28	14 14			13.1	672	24	5420
30	10 10 10			13.9	719	18	5838
32	10 12 10			14.8	755	21	6220
34	12 10 12			15.5	790	24	6602
36	12 12 12			16.4	838	18	6984
38	12 14 12			17.3	873	21	7366
40	14 12 14			18.0	909	24	7748
42	14 14 14			18.9	956	18	8130

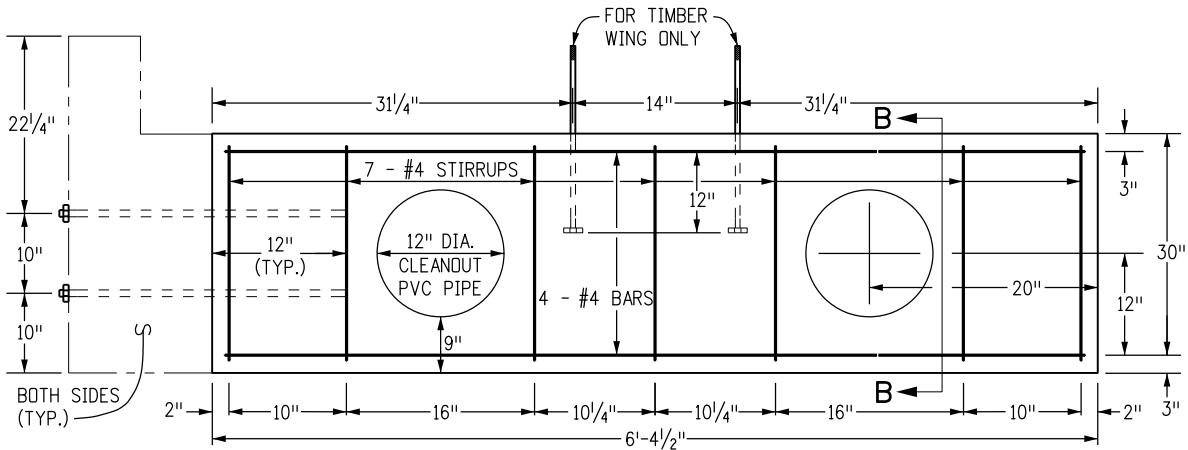
FOUNDATION QUANTITIES

SIZE	WEIGHT (LBS.)
8'	1564
10'	1946
12'	2328
14'	2710

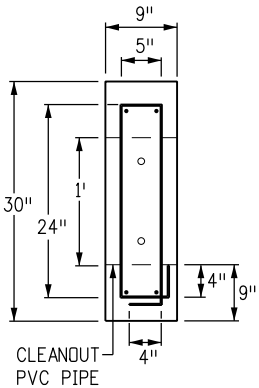
WELDED GRILL UNITS



END SECTION OF FOUNDATION
SECTION A-A



ELEVATION OF LATERAL SUPPORT



LATERAL SUPPORT
SECTION B-B

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Creation Date: 07/31/19	(R-X)	Date:	Comments			M-611-1
Designer Initials: JBK	(R-X)					Standard Sheet No. 2 of 2
Last Modification Date: 07/31/19	(R-X)					Project Sheet Number:
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CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	(R-X)					