

PROJECT ID: 5667-00-75
WITH: N/A

COUNTY: GRANT

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS =



DESIGN DESIGNATION 5667-00-05

A.A.D.T.	2022	=	820
A.A.D.T.	2042	=	920
D.H.V.		=	120
D.D.		=	62/38
T.		=	6.1%
DESIGN SPEED		=	45
ESALS		=	81,000

CONVENTIONAL SYMBOLS

PLAN

CORPORATE LIMITS	
PROPERTY LINE	
LOT LINE	
LIMITED HIGHWAY EASEMENT	
EXISTING RIGHT OF WAY	
PROPOSED OR NEW R/W LINE	
SLOPE INTERCEPT	
REFERENCE LINE	
EXISTING CULVERT	
PROPOSED CULVERT (Box or Pipe)	
COMBUSTIBLE FLUIDS	
MARSH AREA	
WOODED OR SHRUB AREA	

PROFILE

GRADE LINE	
ORIGINAL GROUND	
MARSH OR ROCK PROFILE (To be noted as such)	
SPECIAL DITCH	
GRADE ELEVATION	
CULVERT (Profile View)	
UTILITIES	
ELECTRIC	
FIBER OPTIC	
GAS	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
WATER	
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

C OF FENNIMORE - T CASTLE ROCK

(USH 61 TO CTH Q)

CTH Q

GRANT COUNTY

STATE PROJECT NUMBER

5667-00-75

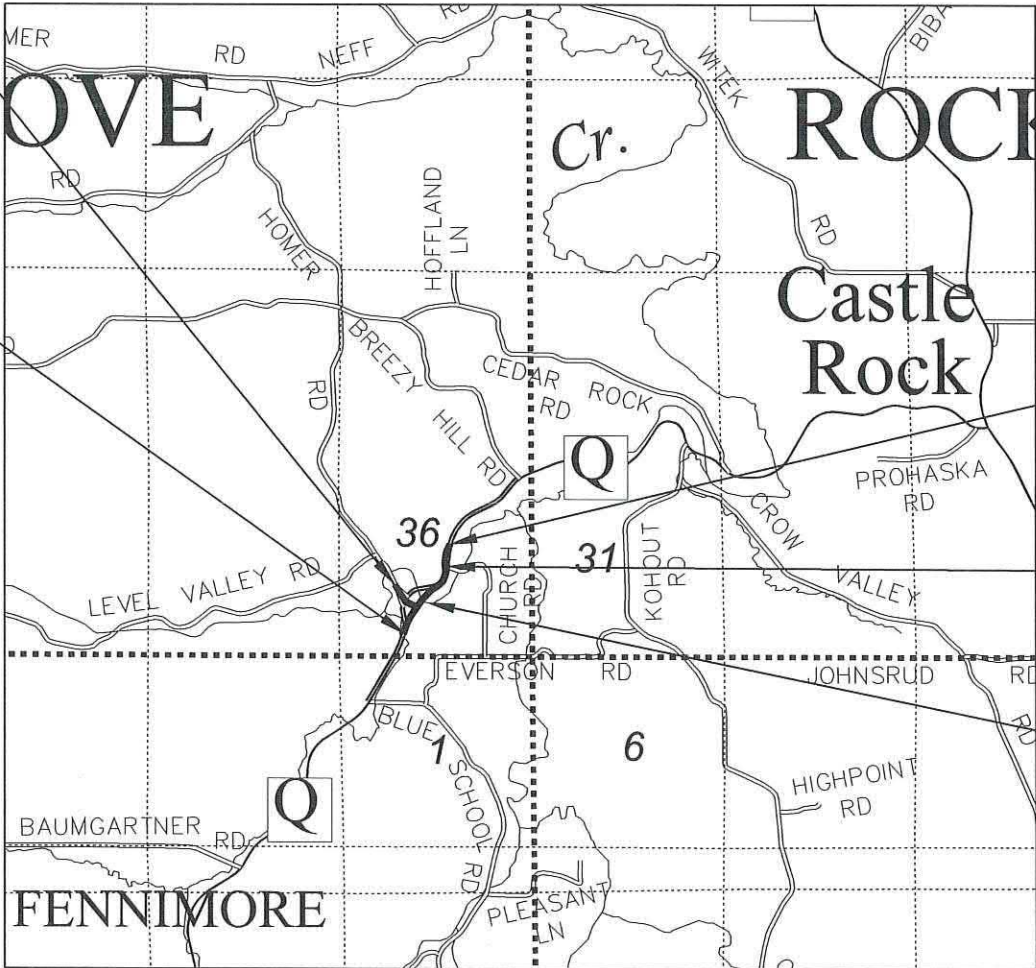
BEGIN CONSTRUCTION
STA. 00+38.00H
Y = 592,743.55
X = 858,782.33

BEGIN PROJECT
STA. 99+77.83
Y = 591,397.68
X = 859,167.99

END PROJECT
STA. 132+36.41

BEGIN CONSTRUCTION
STA. 00+53.23C
Y = 593,019.90
X = 860,472.32

STRUCTURE B-22-296
STA. 110+00



LAYOUT
SCALE 0 1 MI
TOTAL NET LENGTH OF CENTERLINE = 0.617 MILES

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), GRANT NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

STATE PROJECT

5667-00-75

FEDERAL PROJECT

PROJECT

CONTRACT

ACCEPTED FOR

GRANT COUNTY

Date 9-27 Jon A. Knaut
HIGHWAY DEPARTMENT COMMISSIONER

ORIGINAL PLANS PREPARED BY



1702 Pankratz Street, Madison, WI 53704
608-242-7779 1-800-446-0679 Fax: 608-242-5664



DATE: 9/27/21 Amanda DeAmico
(Professional Engineer Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	MSA PROFESSIONAL SERVICES, INC.
Designer	MSA PROFESSIONAL SERVICES, INC.
Project Manager	ALEIGHA BURG
Regional Examiner	SW REGION
Regional Supervisor	JOHN STOLZMAN

APPROVED FOR THE DEPARTMENT

DATE: 10/7/2021 Aleigha Burg, P.E.
(Signature)

E

GENERAL NOTES

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS SHALL BE FERTILIZED, SEEDED AND MULCHED AS DIRECTED BY THE ENGINEER.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE AREA THAT ARE NOT SHOWN.

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

SILT FENCE TO BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER AND IN PLACE PRIOR TO BRIDGE REMOVAL.

STONE OR ROCK DITCH CHECKS, IF NEEDED, SHALL BE PLACED AS DIRECTED BY THE ENGINEER.

THE EROSION CONTROL FEATURES ARE SHOWN ON THE EROSION CONTROL PLAN AND ARE AT SUGGESTED LOCATIONS, THE EXACT LOCATION WILL BE DETERMINED BY THE ENGINEER.

FINAL FIELD ENTRANCE LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

WETLANDS EXIST ALONG THE CREEK AND AT STA. 112+50. A STREAM EXISTS FROM STA. 127+00 TO STA. 131+75, WITH A SPRING AT STA. 127+00. DO NOT DISTURB AREAS OUTSIDE OF THE SLOPE INTERCEPT IN THESE AREAS.

PRIOR TO THE PLACEMENT OF BEAM GUARD, THE SHOULDERS SHALL BE IN PLACE, SHAPED, AND COMPACTED.

THE HMA PAVEMENT SHALL CONSIST OF A 2" UPPER LAYER OF 4 LT 58-28 S AND A 3" LOWER LAYER OF 3 LT 58-28 S.

HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 112 LB/SY/IN.

APPLY TACK COAT AT A RATE OF 0.05 GAL/SY BETWEEN LAYERS OF HMA PAVEMENT.

DESIGN CONTACT

MSA PROFESSIONAL SERVICES, INC.
ATTN: AMANDA DEAMICO, P.E.
1702 PANKRATZ STREET
MADISON, WI 53704
PHONE: (608) 216-2060
EMAIL: ADEAMICO@MSA-PS.COM

GRANT COUNTY HIGHWAY COMMISSIONER
ATTN: JON KNAUTZ
1011 N. ADAMS ST., PO BOX 150
LANCASTER, WI 53813
PHONE: (608) 723-2595
EMAIL: JKNAUTZ@CO.GRANT.WI.GOV

DNR LIAISON

DEPARTMENT OF NATURAL RESOURCES
ATTN: ANDY BARTA
3911 FISH HATCHERY ROAD
FITCHBURG, WI 53711
PHONE: (608) 235-2955
EMAIL: ANDREW.BARTA@WISCONSIN.GOV

UTILITIES

TELEPHONE:
TDS TELECOM
ATTN: JERRY MYERS
525 JUNCTION RD
MADISON, WI 53717
PHONE: (608) 664-4404
EMAIL: JERRY.MYERS@TDSTELECOM.COM

ELECTRIC:
SCENIC RIVERS ENERGY COOPERATIVE
ATTN: PHIL SCHNEIDER
231 NORTH SHERIDAN STREET
LANCASTER, WI 53813
PHONE: (608) 723-2121 EXT. 505
EMAIL: PSCHNEIDER@SREC.NET

GAS:
NORTHERN NATURAL GAS COMPANY
ATTN: SERGIO GONZALEZ
5557 COUNTY D
PLATTEVILLE, WI 53818
PHONE: (402) 530-2026
EMAIL: SERGIO.GONZALEZ@NNGCO.COM

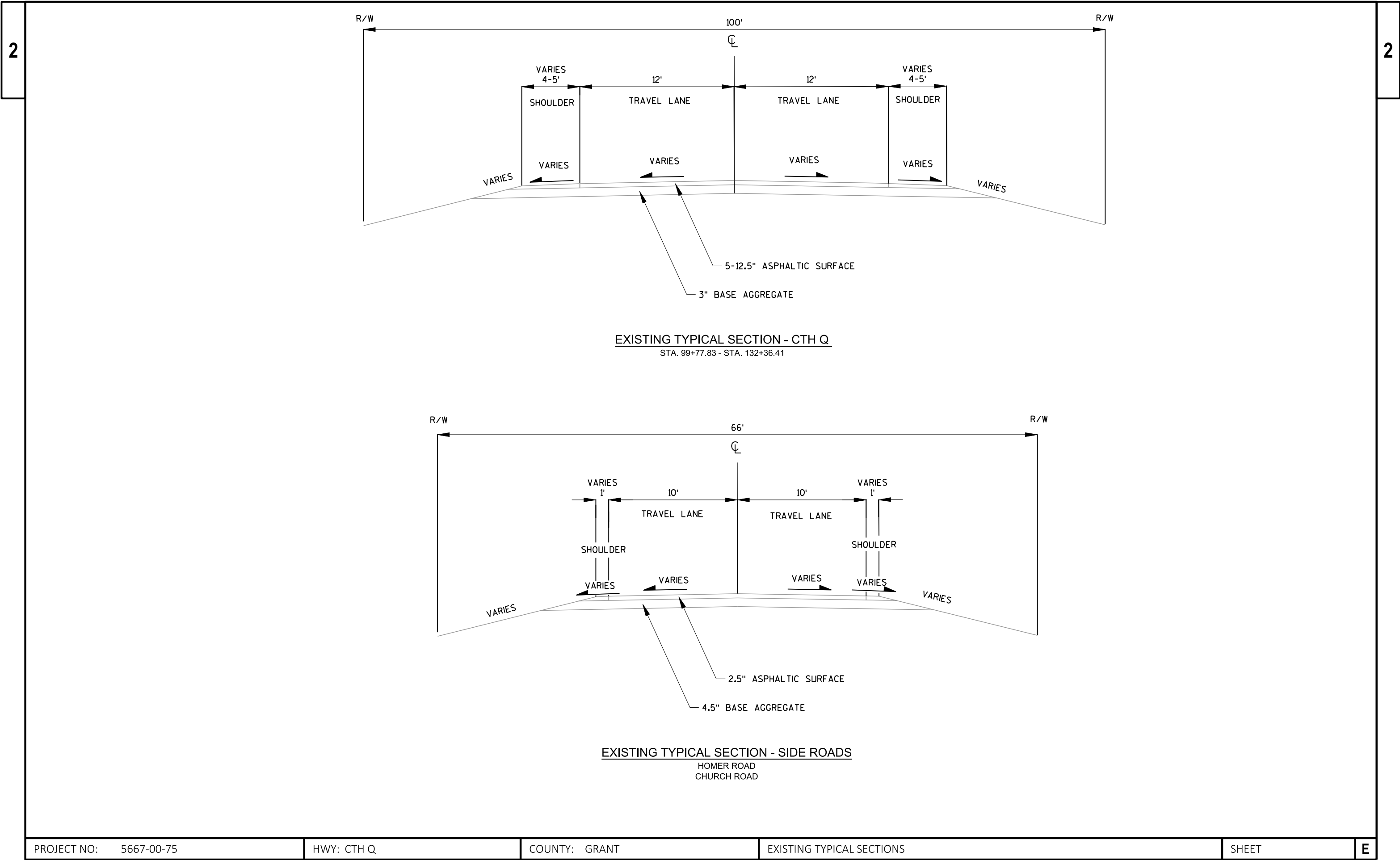
*LISTED UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

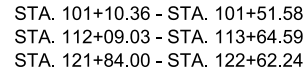


RUNOFF COEFFICIENT TABLE

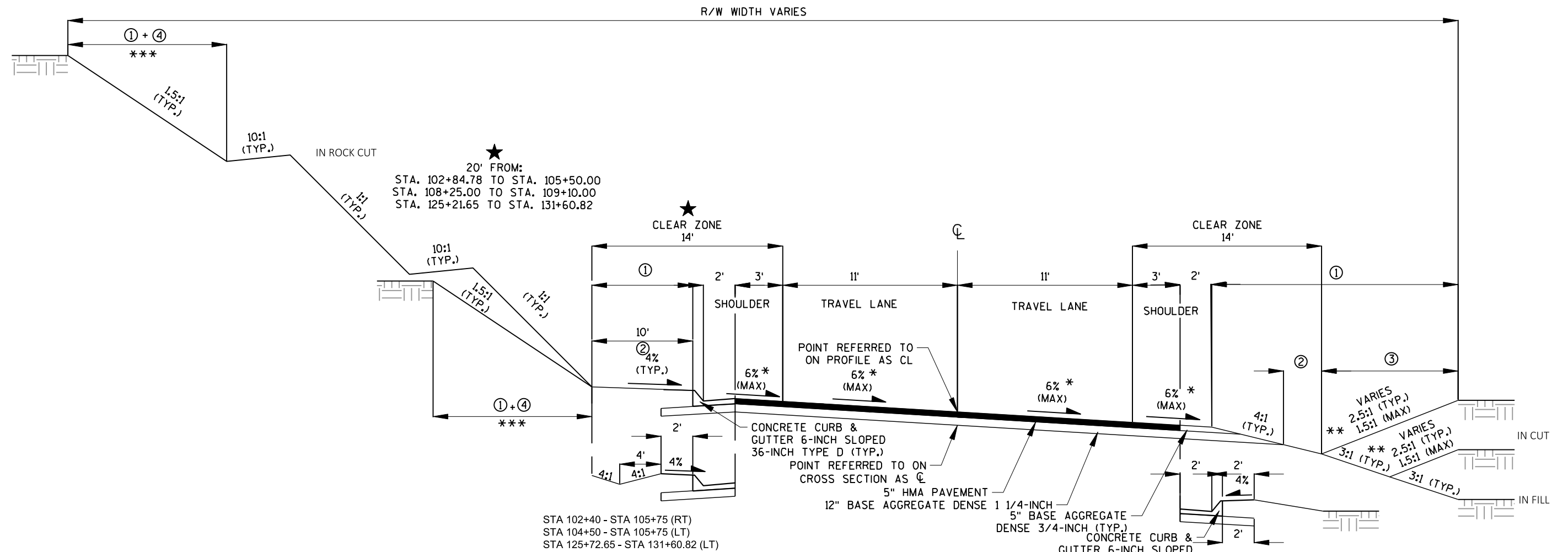
	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP-TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE-TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT						.70 - .95						
CONCRETE						.80 - .95						
BRICK						.70 - .80						
DRIVES, WALKS						.75 - .85						
ROOFS						.75 - .95						
GRAVEL ROADS, SHOULDERS						.40 - .60						

TOTAL PROJECT AREA = 16.57 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 11.01 ACRES



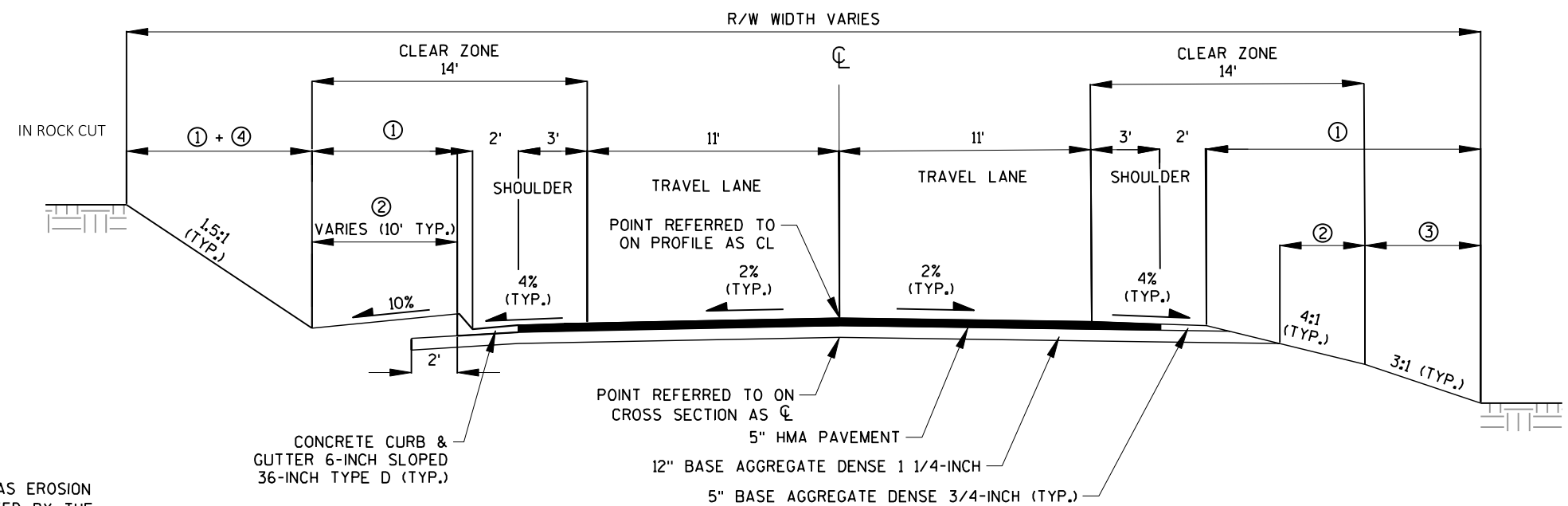


- [illegible]



FINISHED SUPERELEVATION TYPICAL SECTION - CTH Q ROCK EXCAVATION AREAS

STA. 102+40.00 - STA. 105+75.00
STA. 125+21.65 - STA. 131+60.82



FINISHED TYPICAL SECTION - CTH Q ROCK EXCAVATION AREAS

STA. 122+62.24 - STA. 125+21.65

① SEEDING MIXTURE #20, SEEDING TEMPORARY, & FERTILIZER TYPE B LIMITS

② TOPSOIL & MULCHING LIMITS

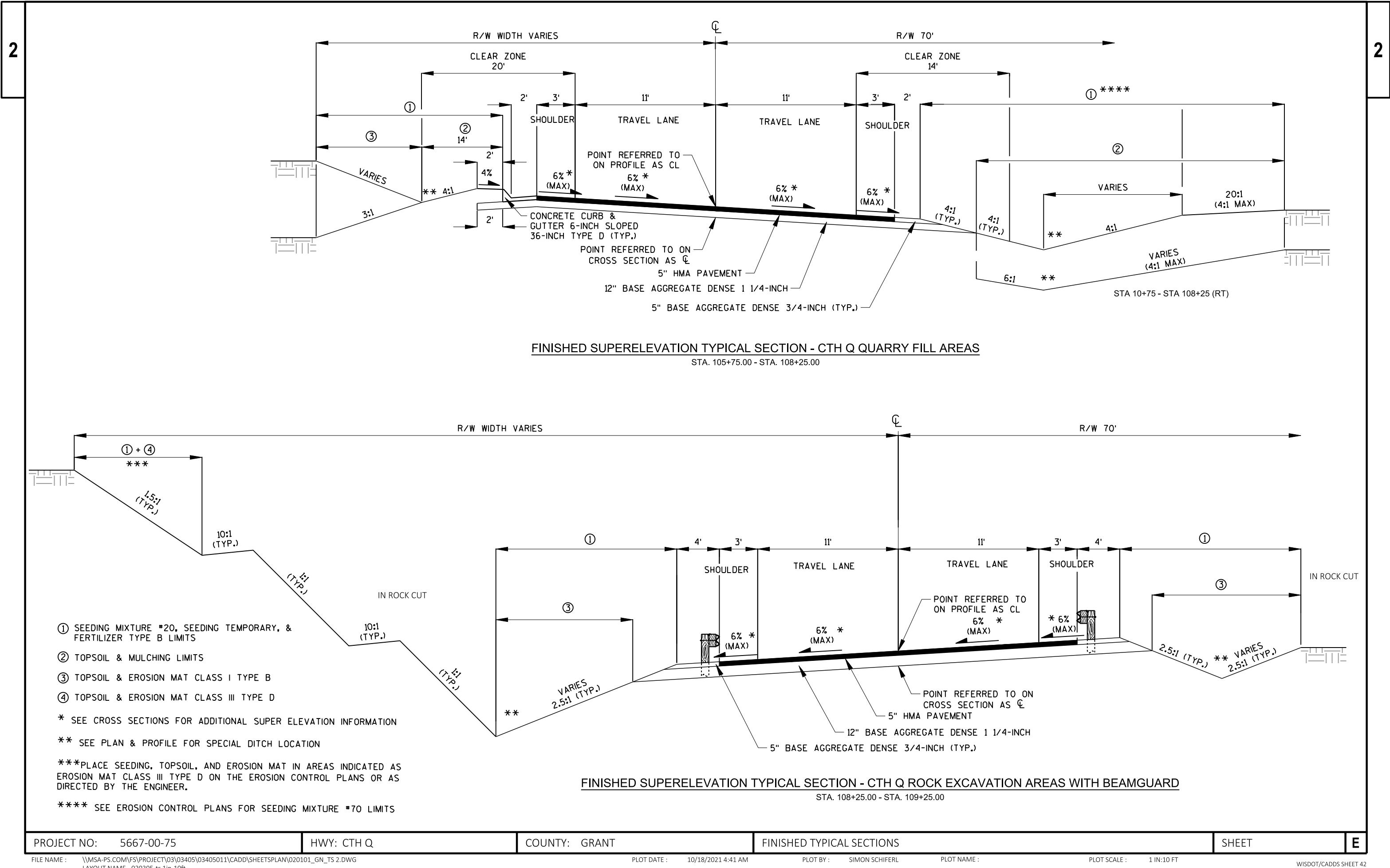
③ TOPSOIL & EROSION MAT CLASS I TYPE B

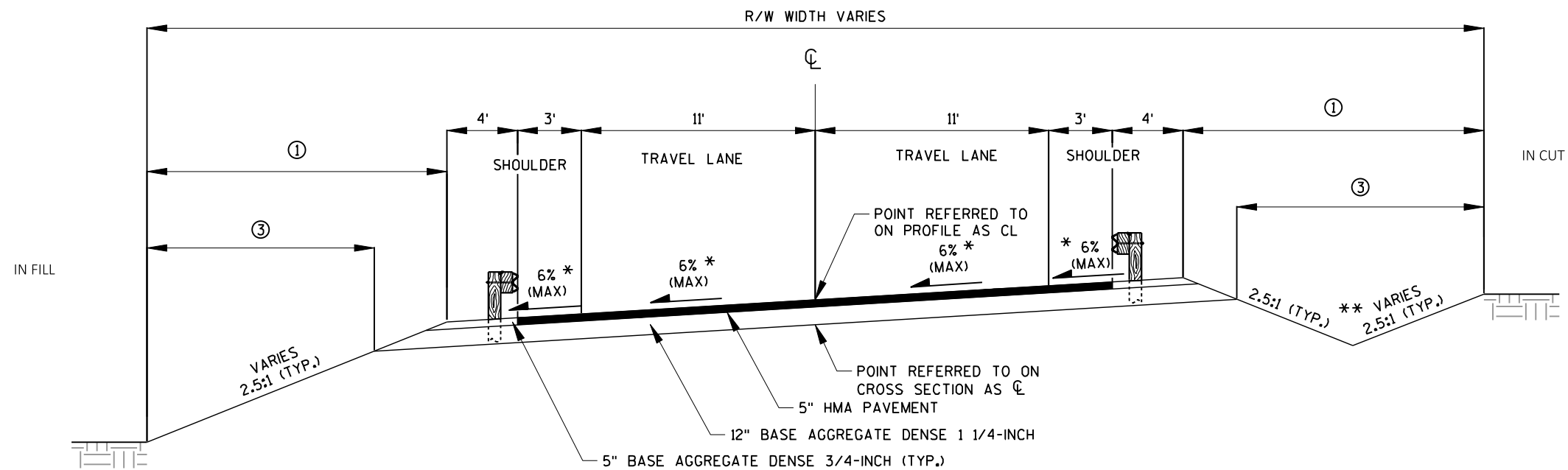
④ TOPSOIL & EROSION MAT CLASS III TYPE D

*SEE CROSS SECTIONS FOR ADDITIONAL SUPER ELEVATION INFORMATION

**SEE PLAN & PROFILE FOR SPECIAL DITCH LOCATION

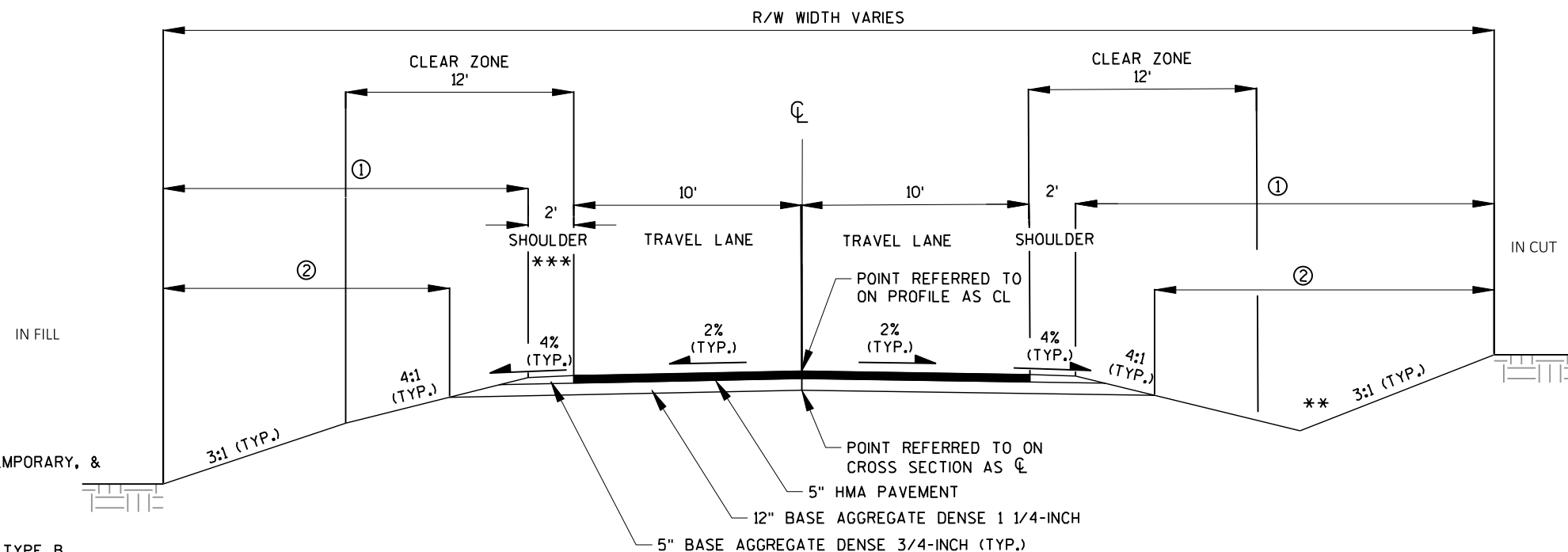
***PLACE SEEDING, TOPSOIL, AND EROSION MAT IN AREAS INDICATED AS EROSION MAT CLASS III TYPE D ON THE EROSION CONTROL PLANS OR AS DIRECTED BY THE ENGINEER.





FINISHED SUPERELEVATION TYPICAL SECTION - CTH Q BEAMGUARD

STA. 109+25.00 - STA. 109+42.67
STA. 110+57.17 - STA. 111+60.91



FINISHED TYPICAL SECTION - SIDE ROADS

HOMER ROAD
CHURCH ROAD

① SEEDING MIXTURE #20, SEEDING TEMPORARY, & FERTILIZER TYPE B LIMITS

② TOPSOIL & MULCHING LIMITS

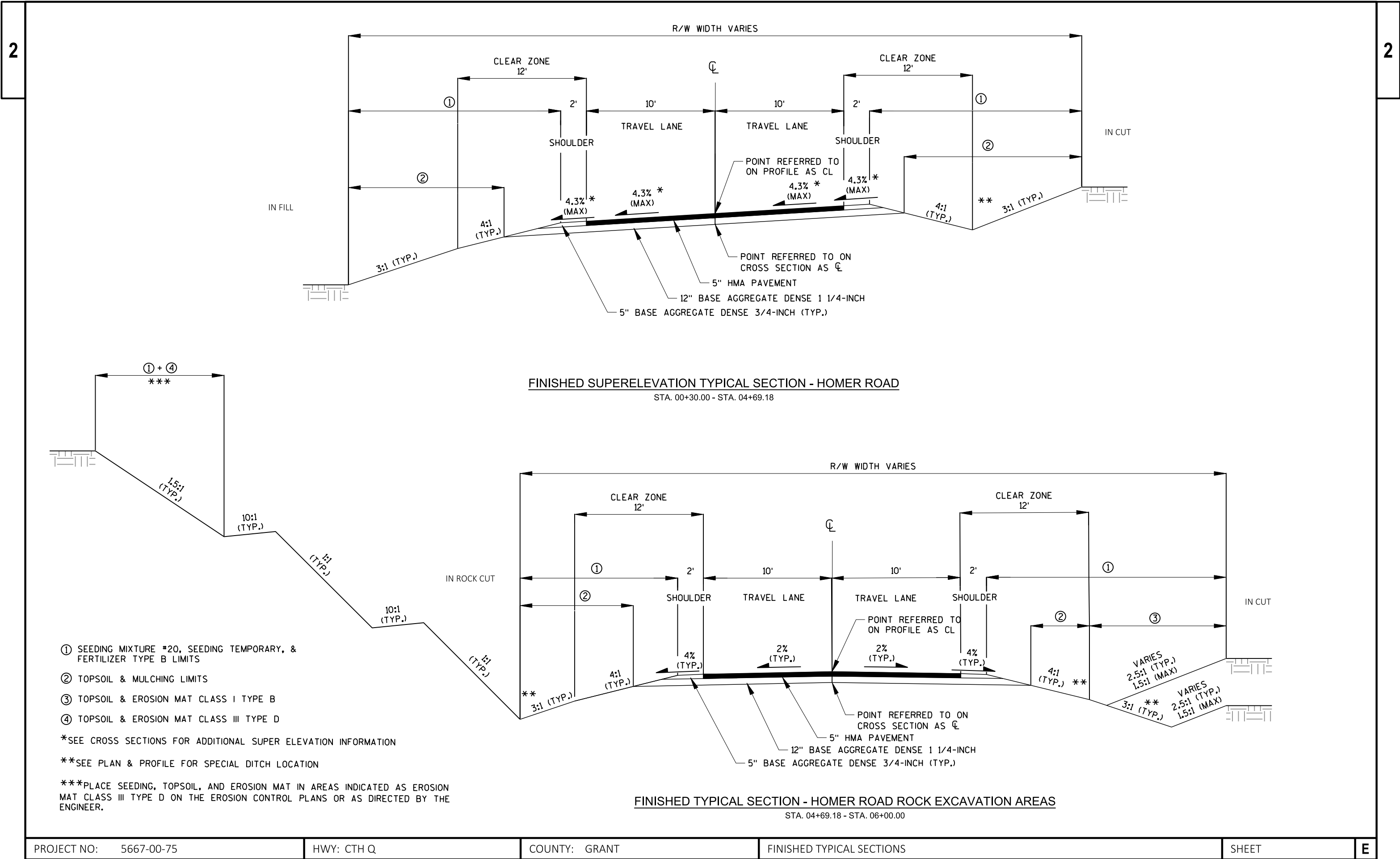
③ TOPSOIL & EROSION MAT CLASS I TYPE B

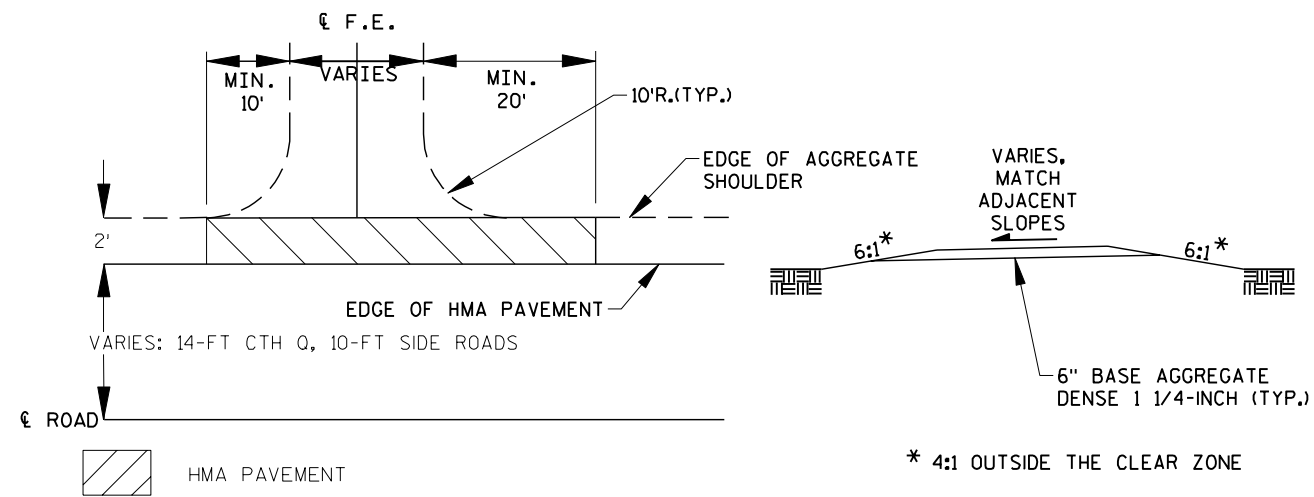
④ TOPSOIL & EROSION MAT CLASS III TYPE D

*SEE CROSS SECTIONS FOR ADDITIONAL SUPER ELEVATION INFORMATION

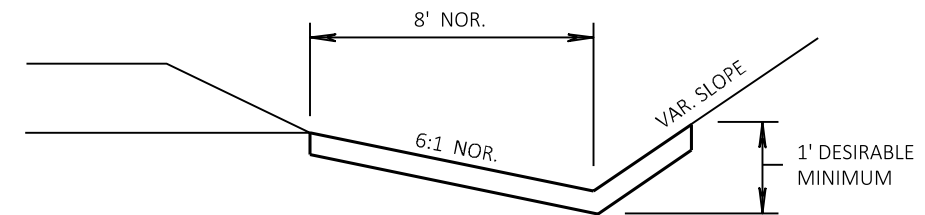
**SEE PLAN & PROFILE FOR SPECIAL DITCH LOCATION

***10' FROM STA 4+32H TO STA 6+50H LT

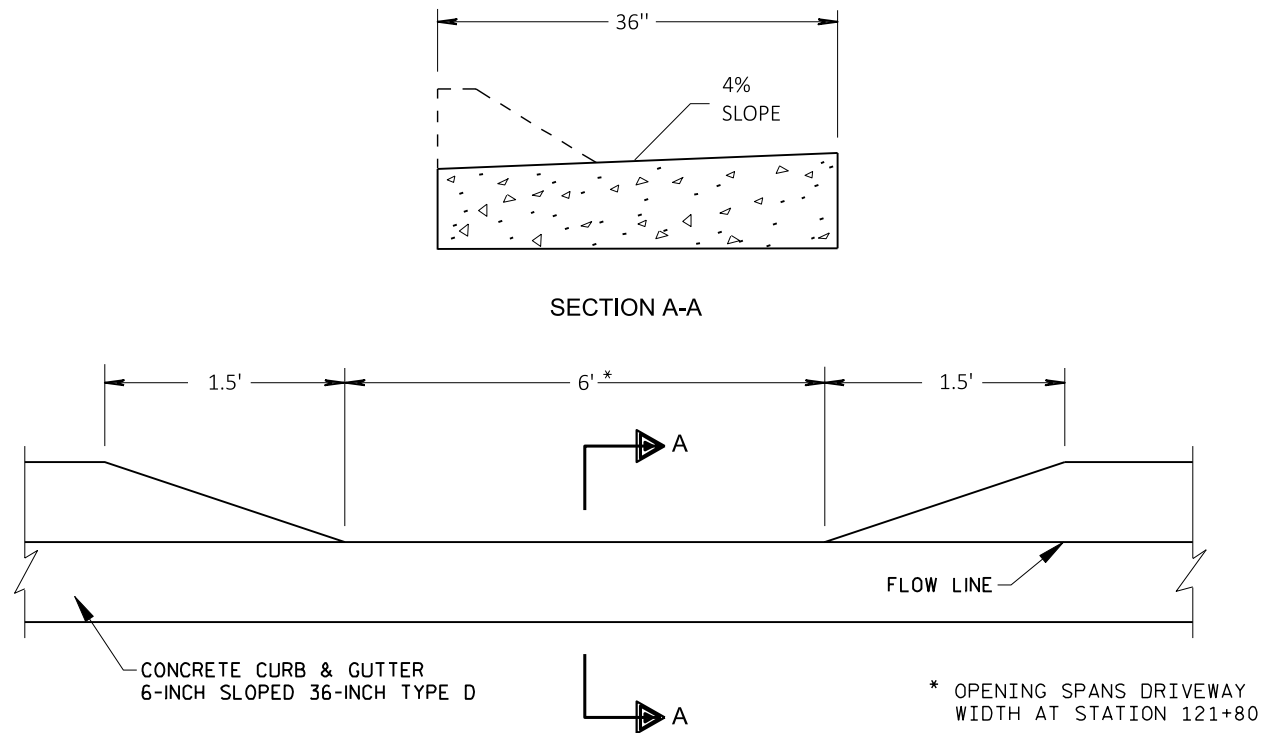




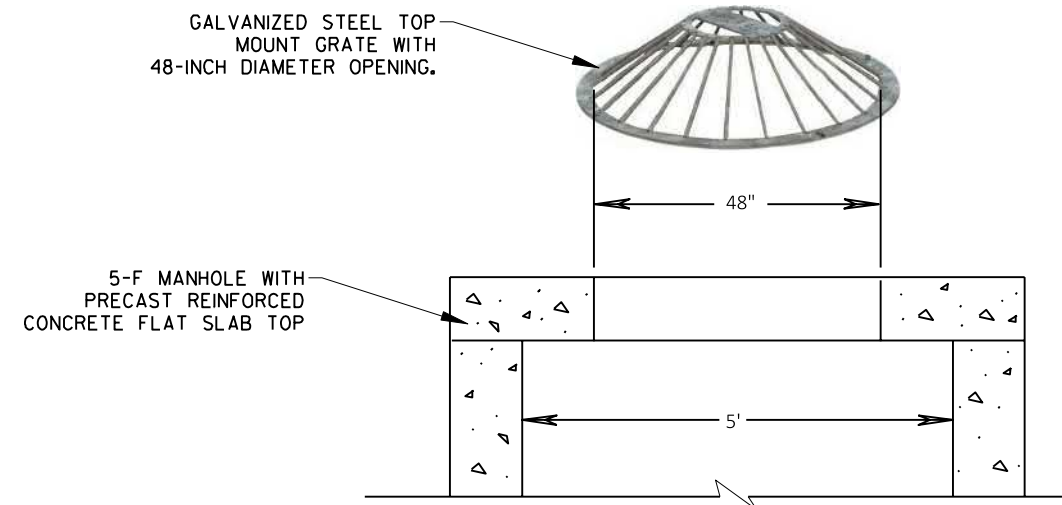
PRIVATE/FIELD ENTRANCE DETAIL



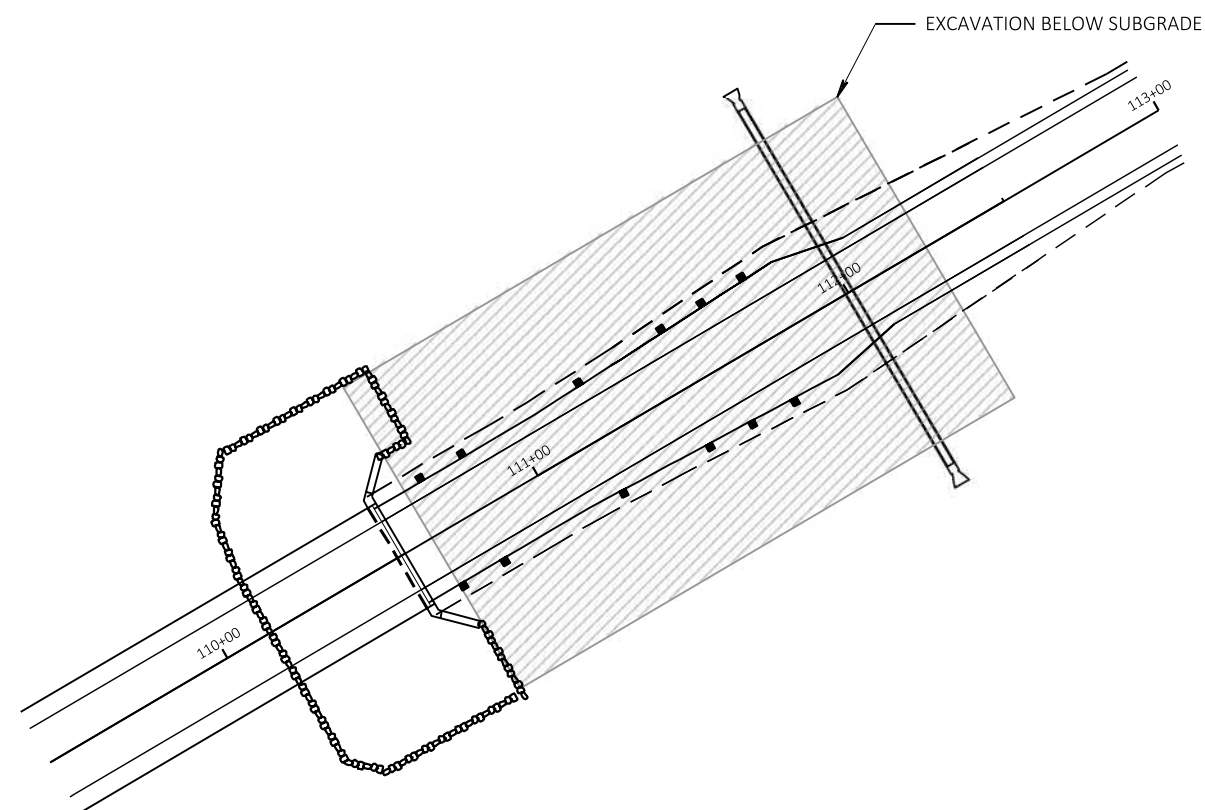
EROSION MAT DETAIL FOR DITCHES



DETAIL OF CURB HEAD DEPRESSION FOR
DRAINAGE AT CURB & GUTTER SECTION

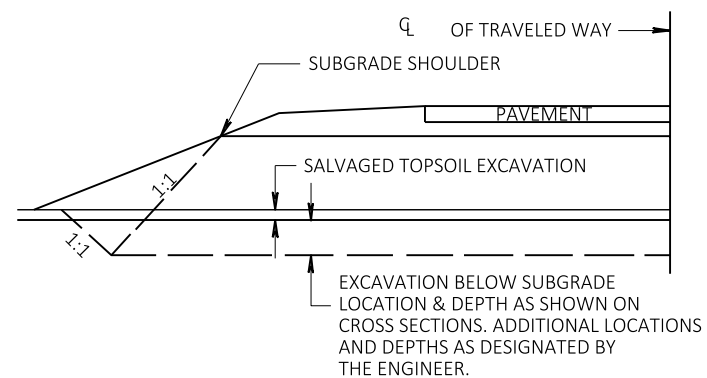


TOP MOUNT GRATE 48-INCH DETAIL
ON 5-FT MANHOLE



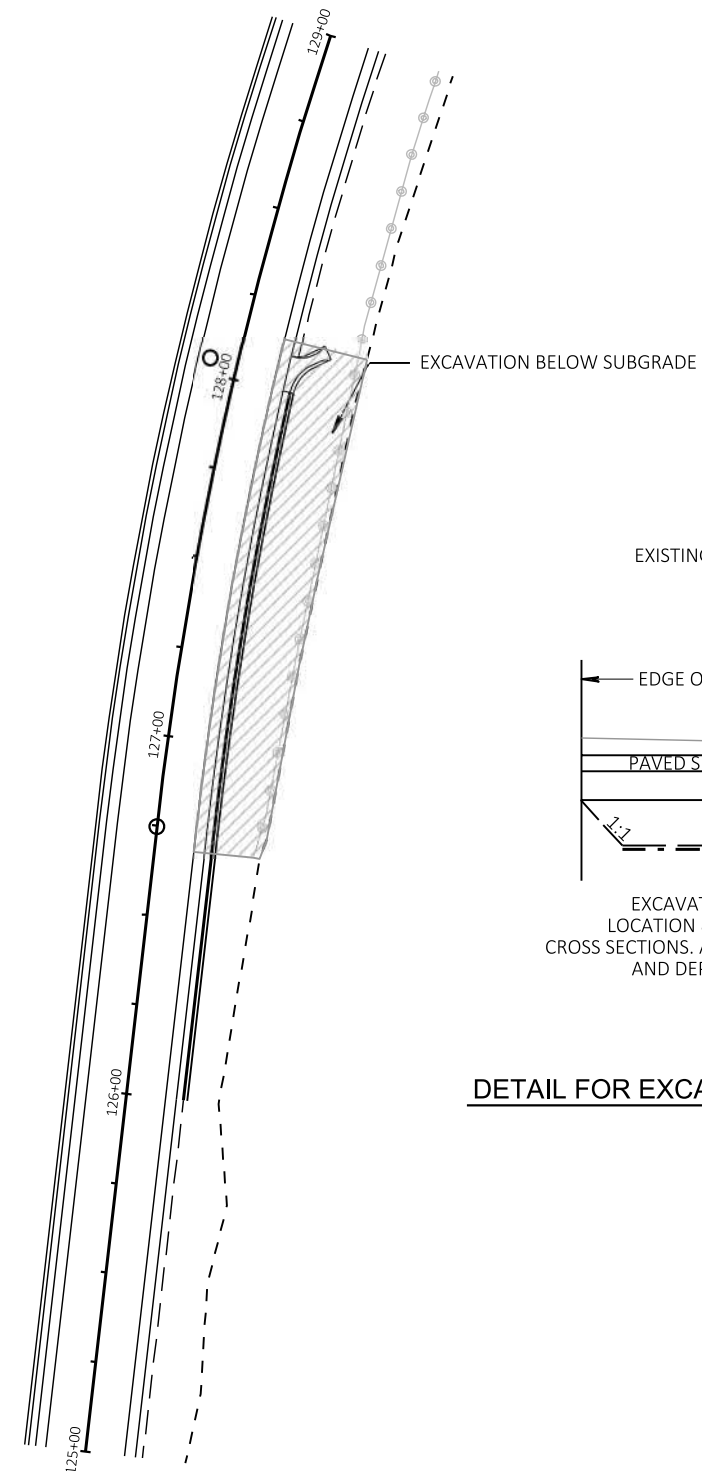
EXCAVATION BELOW SUBGRADE PLAN VIEW (EAST BRIDGE APPROACH)

STA. 110+57 - STA. 112+25



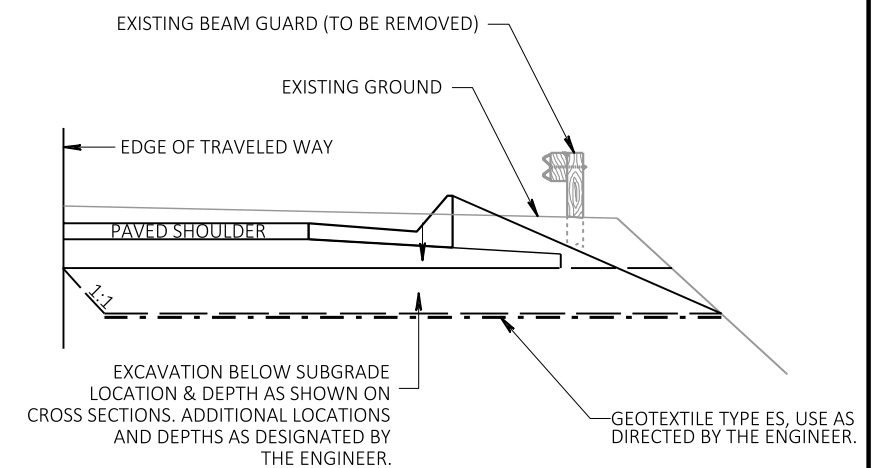
DETAIL FOR EXCAVATION BELOW SUBGRADE (EAST BRIDGE APPROACH)

STA. 110+57 - STA. 112+25



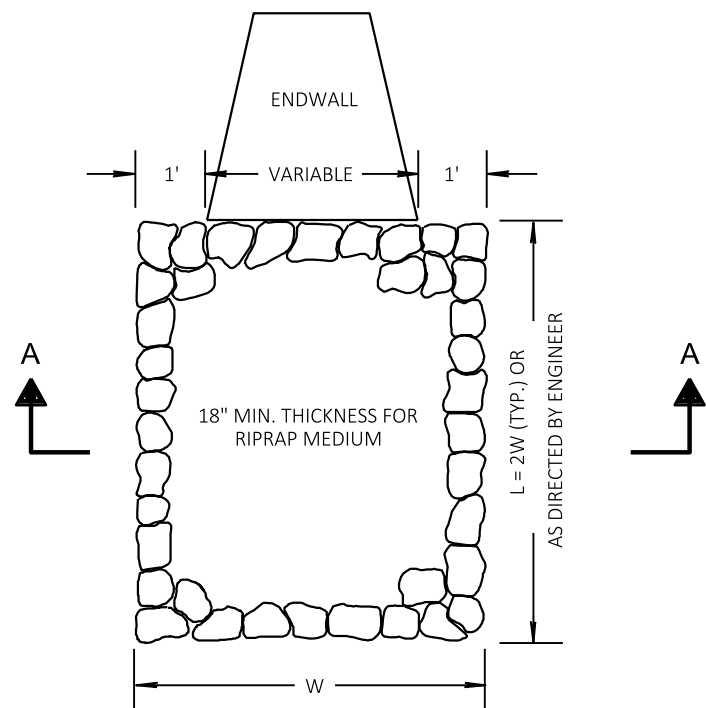
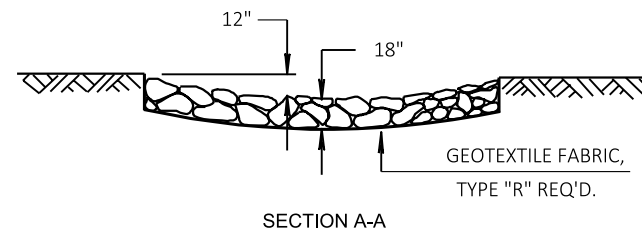
EXCAVATION BELOW SUBGRADE PLAN VIEW (SPRING AREA)

STA. 126+69 - STA. 128+15

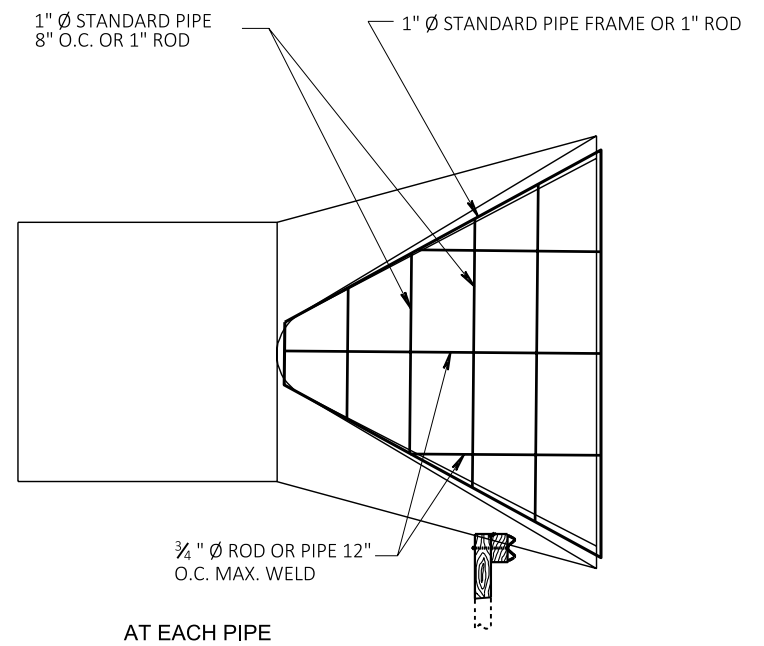
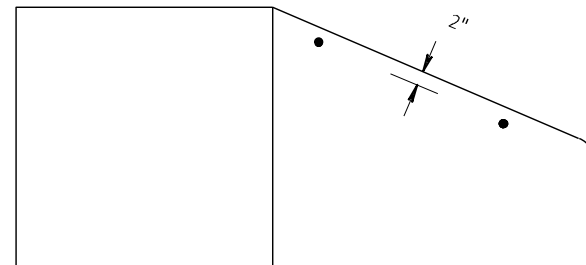
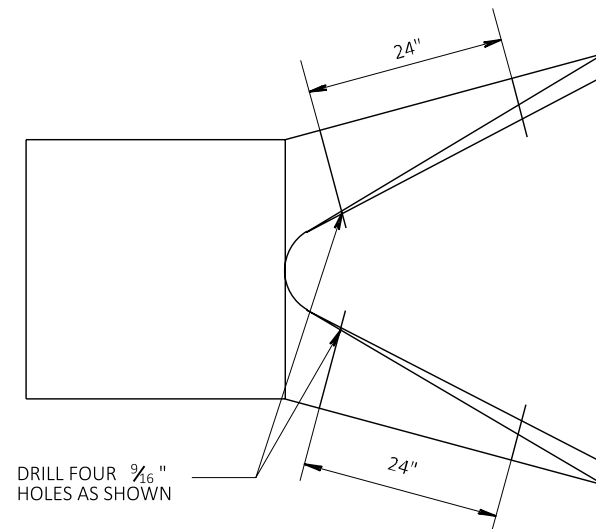


DETAIL FOR EXCAVATION BELOW SUBGRADE (SPRING AREA)

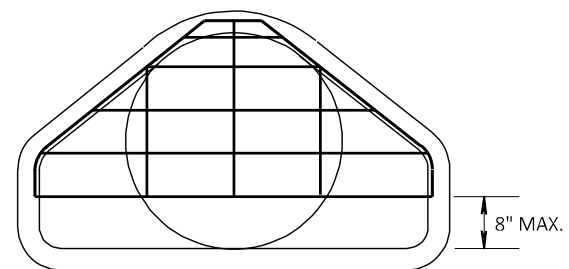
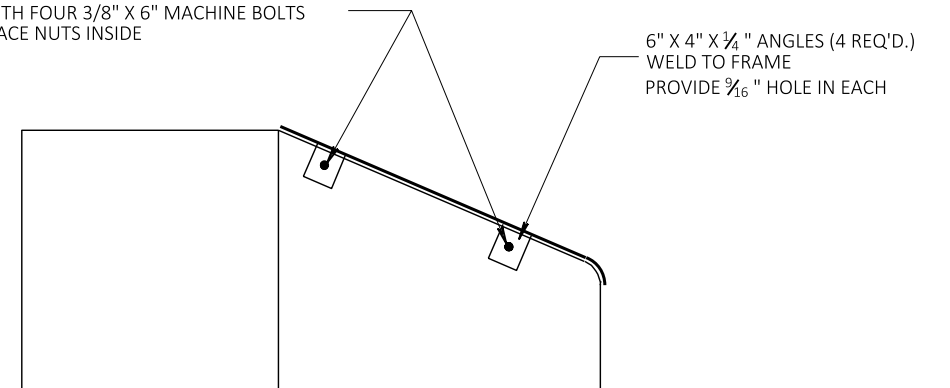
STA. 126+69 - STA. 128+15



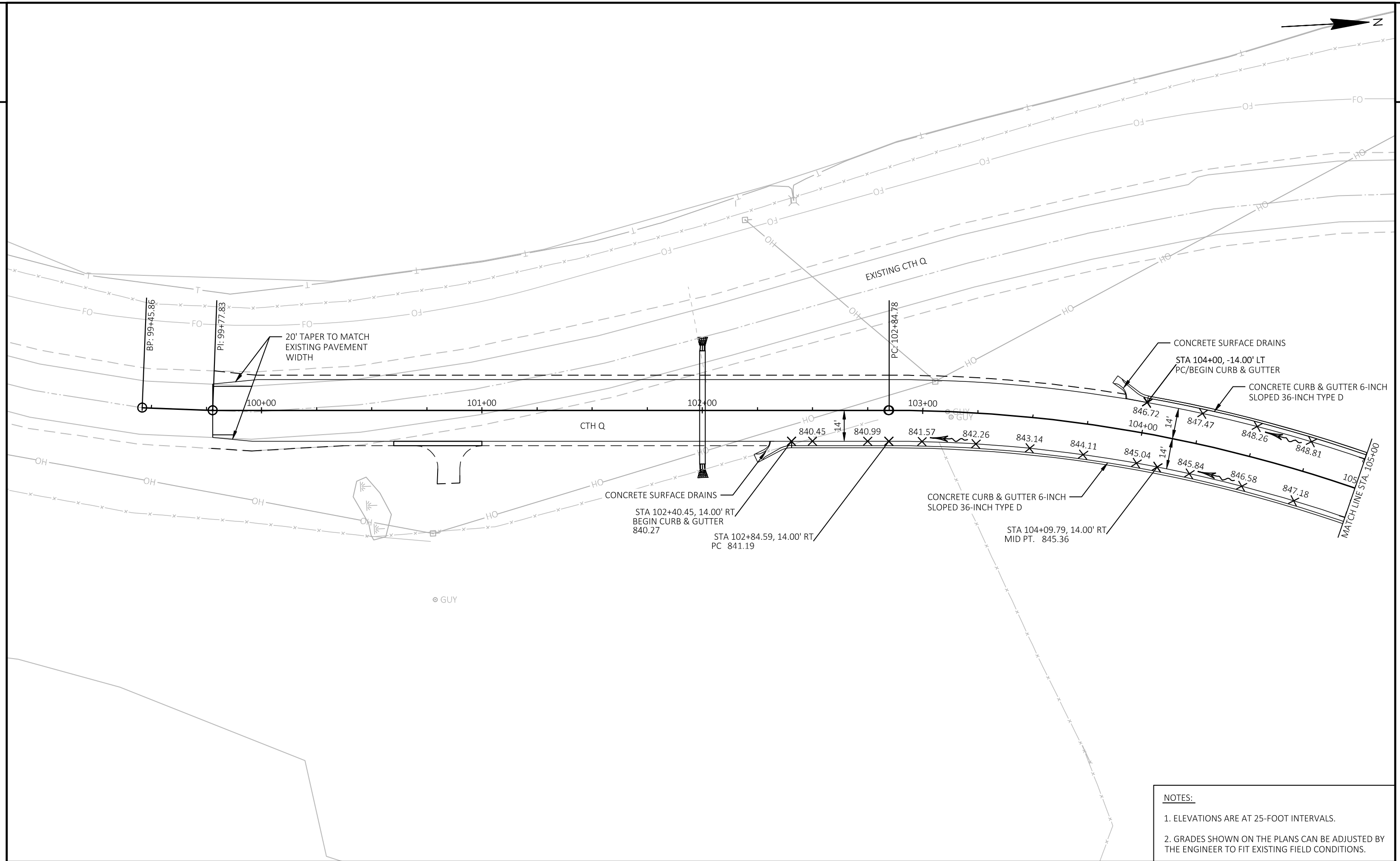
RIPRAP MEDIUM TREATMENT AT CULVERTS



BOLT GRATE TO CONCRETE ENDWALL
WITH FOUR 3/8" X 6" MACHINE BOLTS
PLACE NUTS INSIDE



PIPE GRATE DETAIL



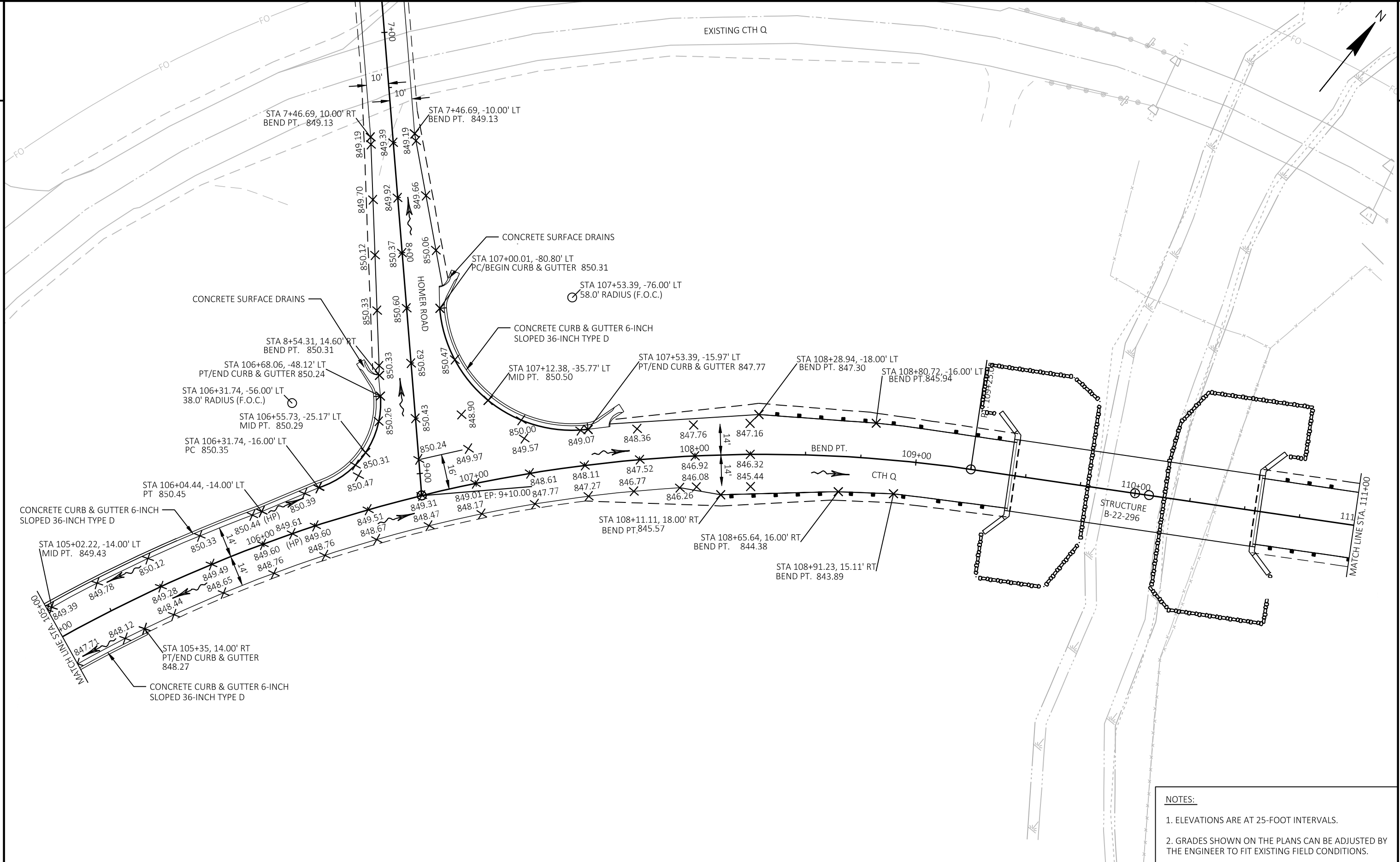
NOTES:

1. ELEVATIONS ARE AT 25-FOOT INTERVALS.

2. GRADES SHOWN ON THE PLANS CAN BE ADJUSTED BY THE ENGINEER TO FIT EXISTING FIELD CONDITIONS.

2

2

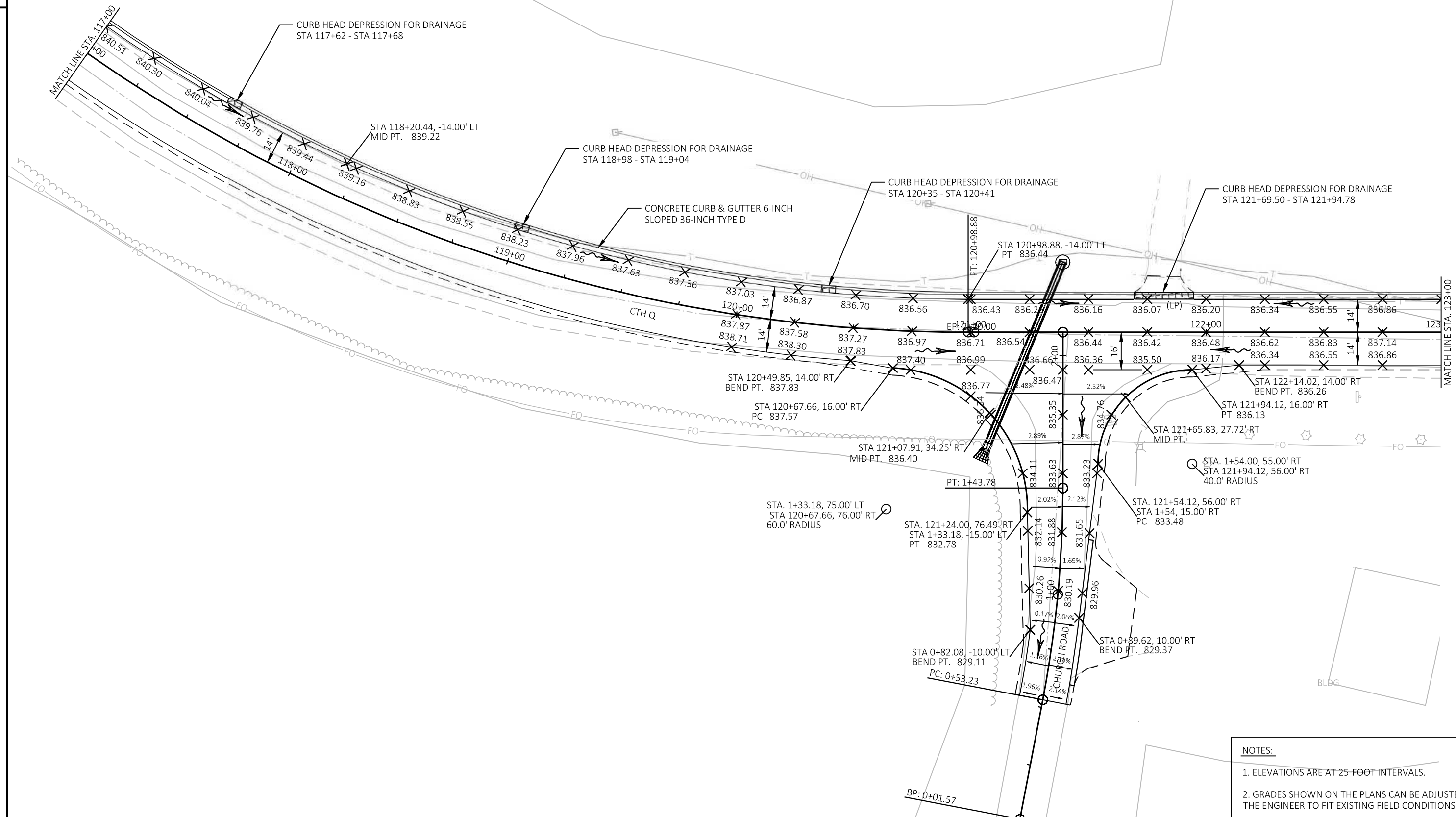


NOTES:

1. ELEVATIONS ARE AT 25-FOOT INTERVALS.
2. GRADES SHOWN ON THE PLANS CAN BE ADJUSTED BY THE ENGINEER TO FIT EXISTING FIELD CONDITIONS.

PROJECT NO: 5667-00-75	HWY: CTH Q	COUNTY: GRANT	INTERSECTION, CURB & GUTTER, AND BEAM GUARD STAKING DETAILS	SHEET	E
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PROJECT NO: 5667-00-75

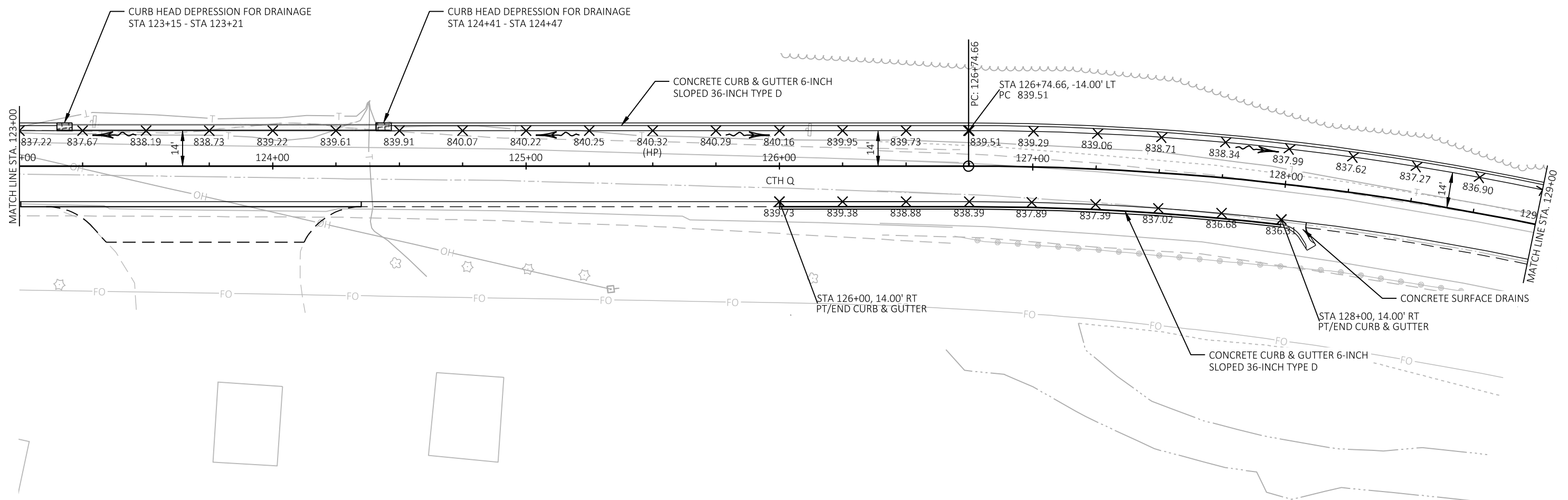
HWY: CTH Q

COUNTY: GRANT

INTERSECTION, CURB & GUTTER, AND BEAM GUARD STAKING DETAILS

SHEET

E

**NOTES:**

1. ELEVATIONS ARE AT 25-FOOT INTERVALS.
2. GRADES SHOWN ON THE PLANS CAN BE ADJUSTED BY THE ENGINEER TO FIT EXISTING FIELD CONDITIONS.

PROJECT NO: 5667-00-75

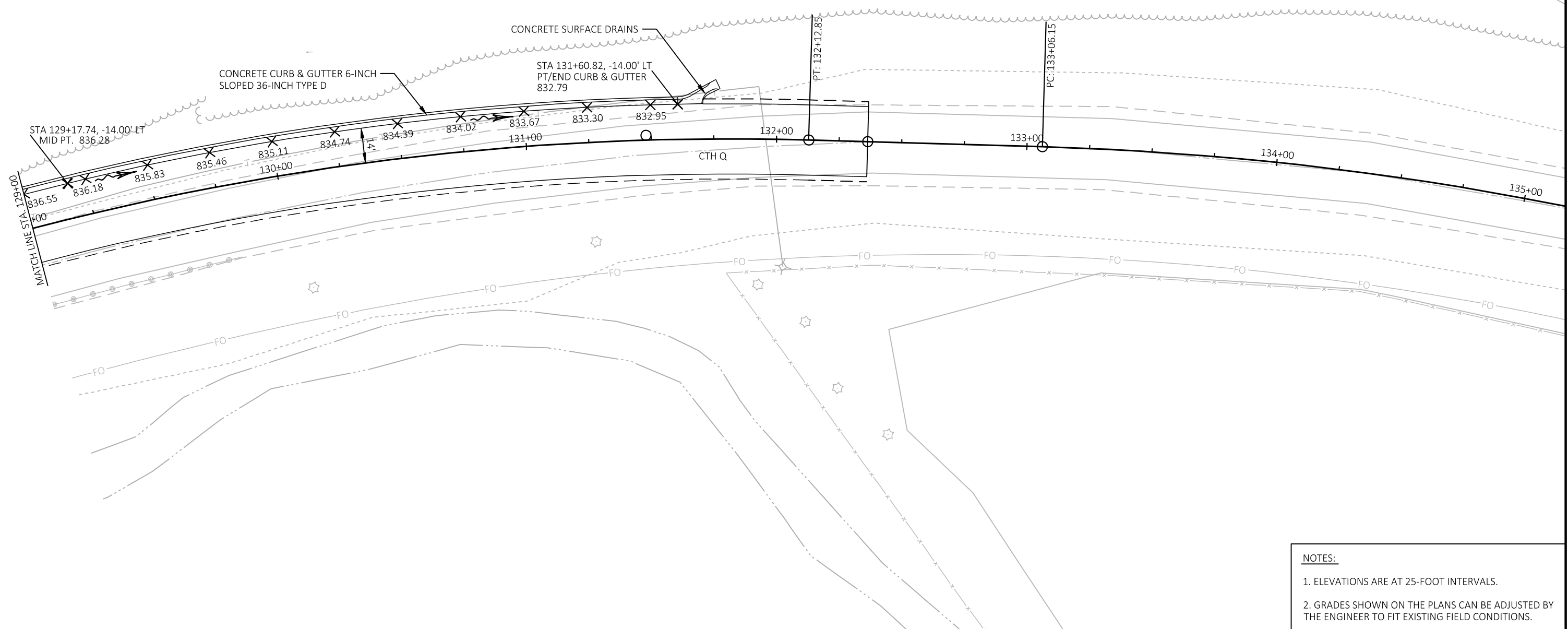
HWY: CTH Q

COUNTY: GRANT

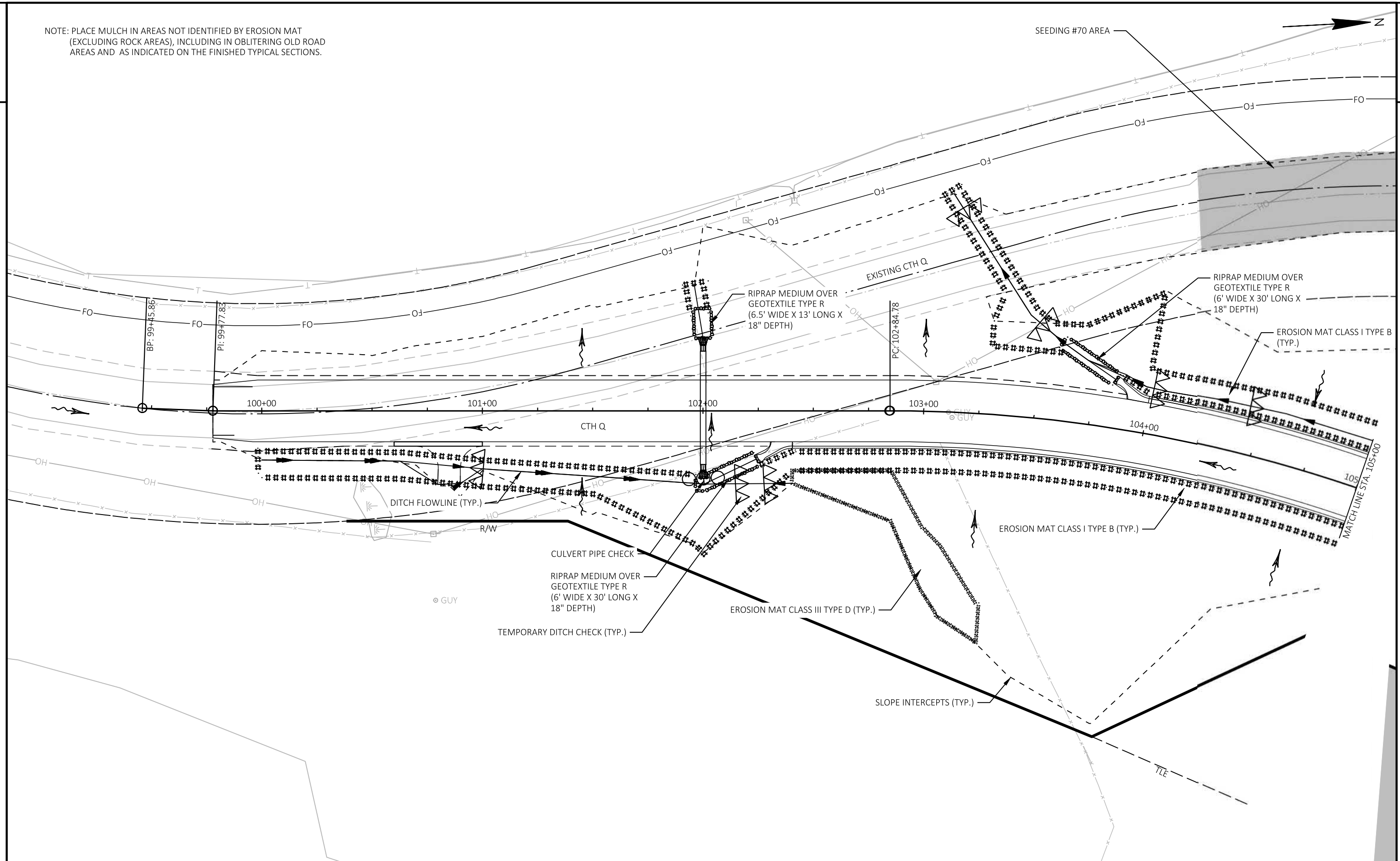
INTERSECTION, CURB & GUTTER, AND BEAM GUARD STAKING DETAILS

SHEET

E

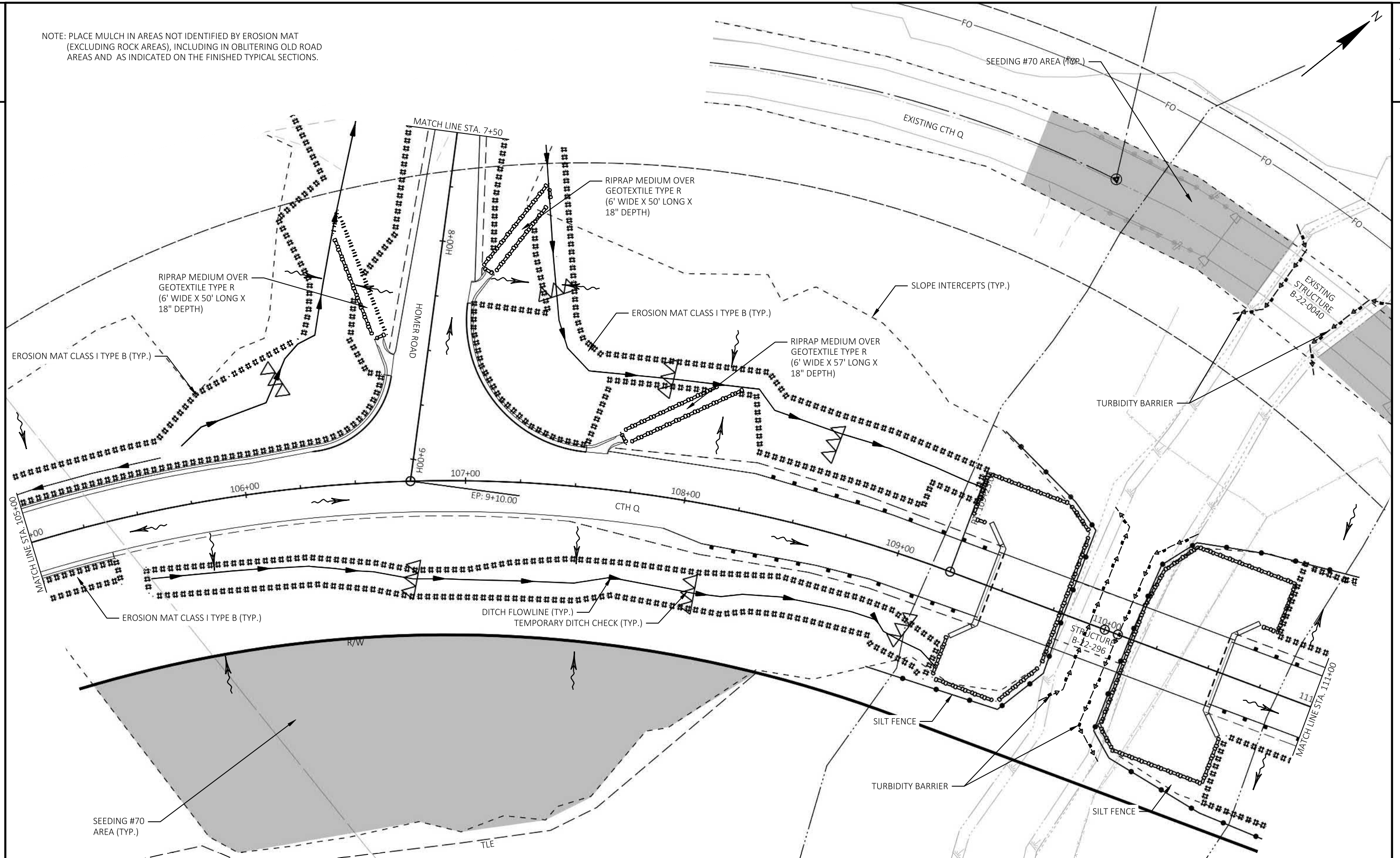


NOTE: PLACE MULCH IN AREAS NOT IDENTIFIED BY EROSION MAT
(EXCLUDING ROCK AREAS), INCLUDING IN OBLITERING OLD ROAD
AREAS AND AS INDICATED ON THE FINISHED TYPICAL SECTIONS.



PROJECT NO: 5667-00-75	HWY: CTH Q	COUNTY: GRANT	EROSION CONTROL	SHEET	E
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NOTE: PLACE MULCH IN AREAS NOT IDENTIFIED BY EROSION MAT
(EXCLUDING ROCK AREAS), INCLUDING IN OBLITERING OLD ROAD
AREAS AND AS INDICATED ON THE FINISHED TYPICAL SECTIONS.



PROJECT NO: 5667-00-75

HWY: CTH Q

COUNTY: GRANT

EROSION CONTROL

SHEET

E

FILE NAME : \\MSA-PS.COM\F5\PROJECT\03\03405\03405011\CADD\SHETSPLAN\022001-EC.DWG
LAYOUT NAME - 022002-ec

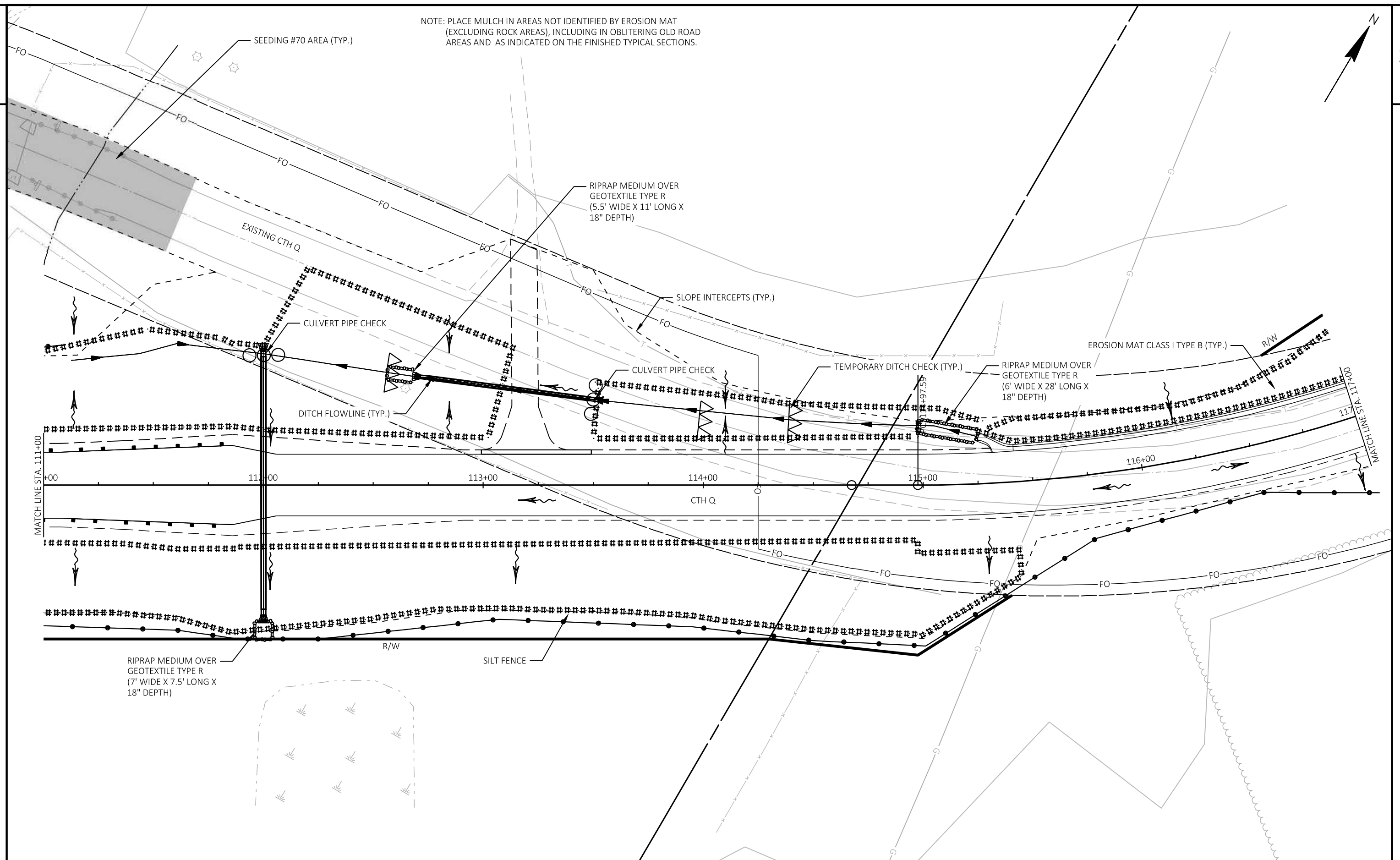
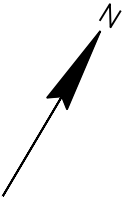
PLOT DATE : 10/18/2021 5:50 AM

PLOT BY : SIMON SCHIFERL

PLOT NAME :

PLOT SCALE : 1 IN=40 FT

WISDOT/CADD5 SHEET 42

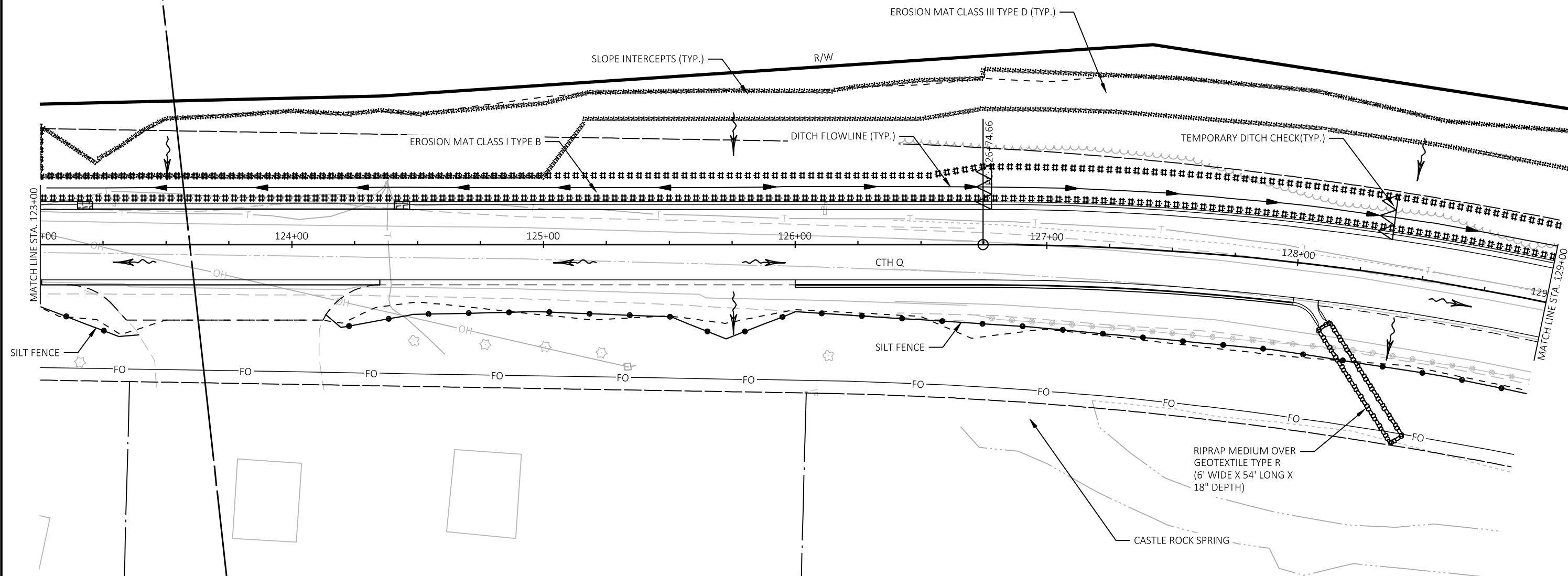




A diagram showing a horizontal arrow pointing to the right, labeled with the letter 'z' at its tip, representing the z-axis.



NOTE: PLACE MULCH IN AREAS NOT IDENTIFIED BY EROSION MAT
(EXCLUDING ROCK AREAS), INCLUDING IN OBLITERATING OLD ROAD
AREAS AND AS INDICATED ON THE FINISHED TYPICAL SECTIONS.



PROJECT NO: 5667-00-75

HWY: CTH Q

COUNTY: GRANT

EROSION CONTROL

SHEET

E

FILE NAME: \\MSA-PS.COM\F5\PROJECT\03\03405\03405011\CADD\SHEETSP\022001-EC.DWG
LAYOUT NAME - 022007-ec

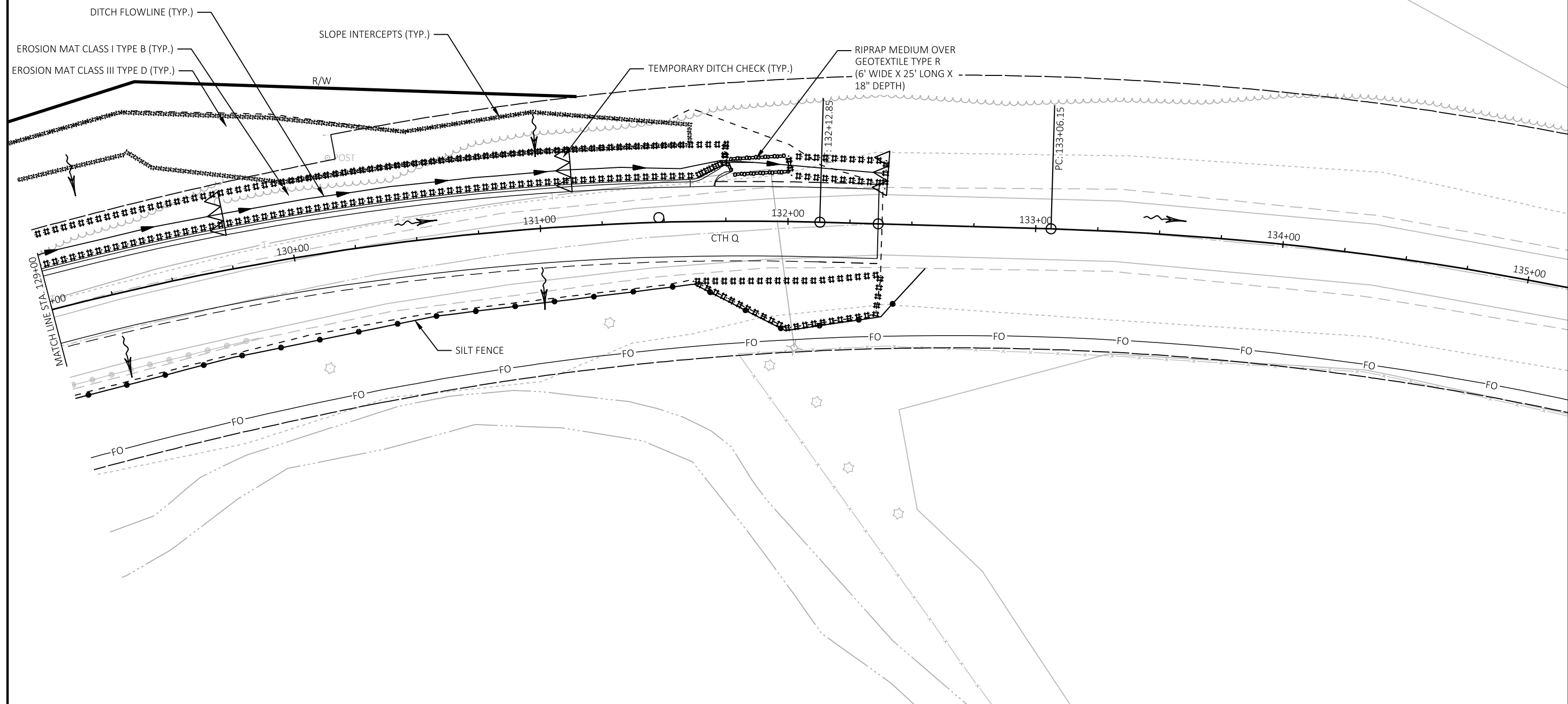
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PLOT BY: SIMON SCHIFERL

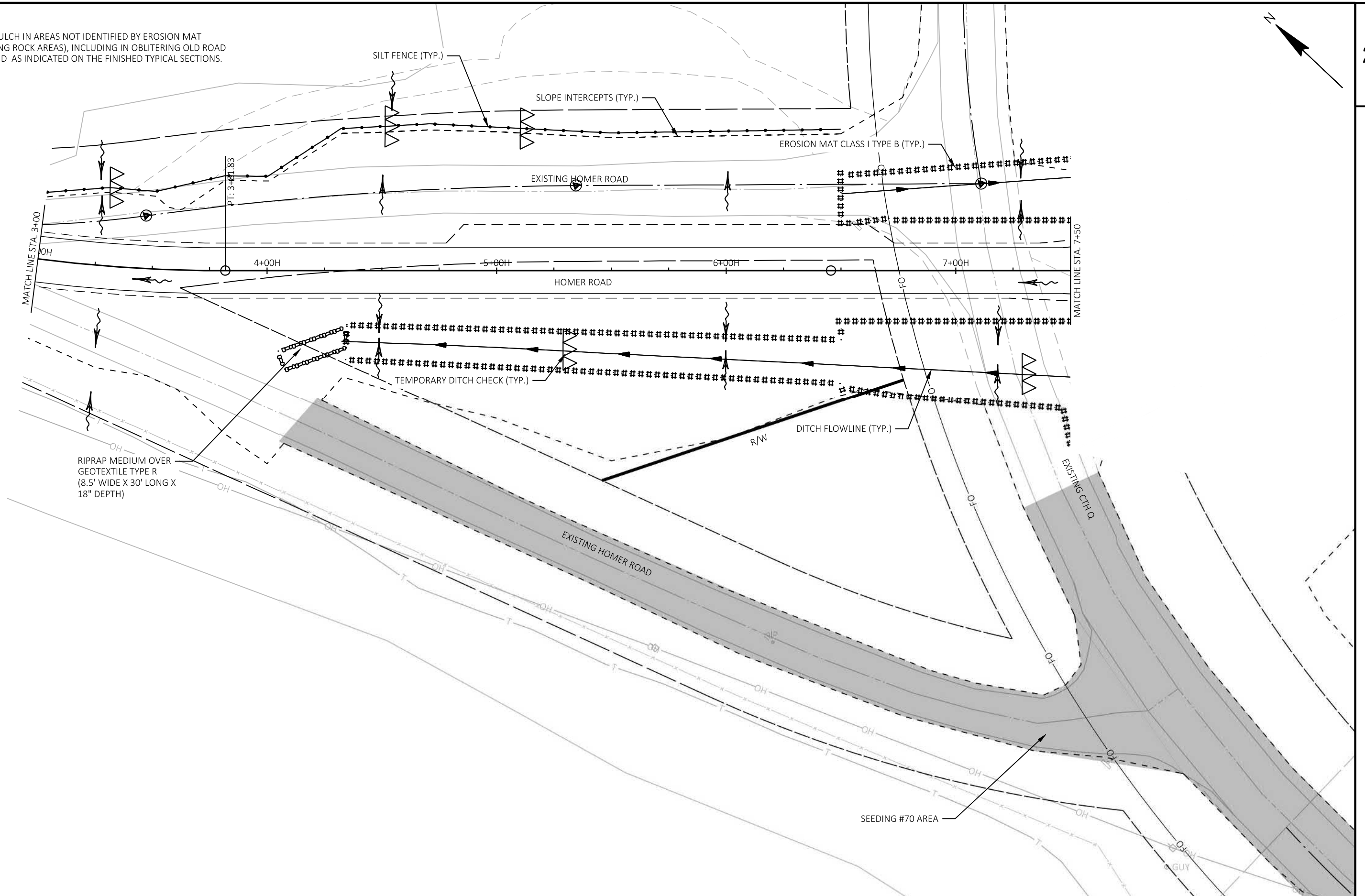
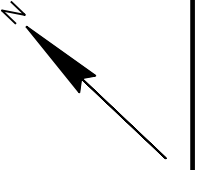
PLOT NAME:

PLOT SCALE: 1 IN=40 FT

WISDOT/CADD'S SHEET 42

A diagram showing a vector labeled z . It consists of a horizontal line segment with an arrowhead pointing to the right, and a short diagonal line segment extending upwards and to the right from the tip of the horizontal segment, labeled with a script z .

NOTE: PLACE MULCH IN AREAS NOT IDENTIFIED BY EROSION MAT
(EXCLUDING ROCK AREAS), INCLUDING IN OBLITERING OLD ROAD
AREAS AND AS INDICATED ON THE FINISHED TYPICAL SECTIONS.



PROJECT NO: 5667-00-75

HWY: CTH Q

COUNTY: GRANT

EROSION CONTROL

SHEET

E

FILE NAME : \\MSA-PS.COM\F5\PROJECT\03\03405\03405011\CADD\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022003-ec

PLOT DATE : 10/18/2021 5:50 AM

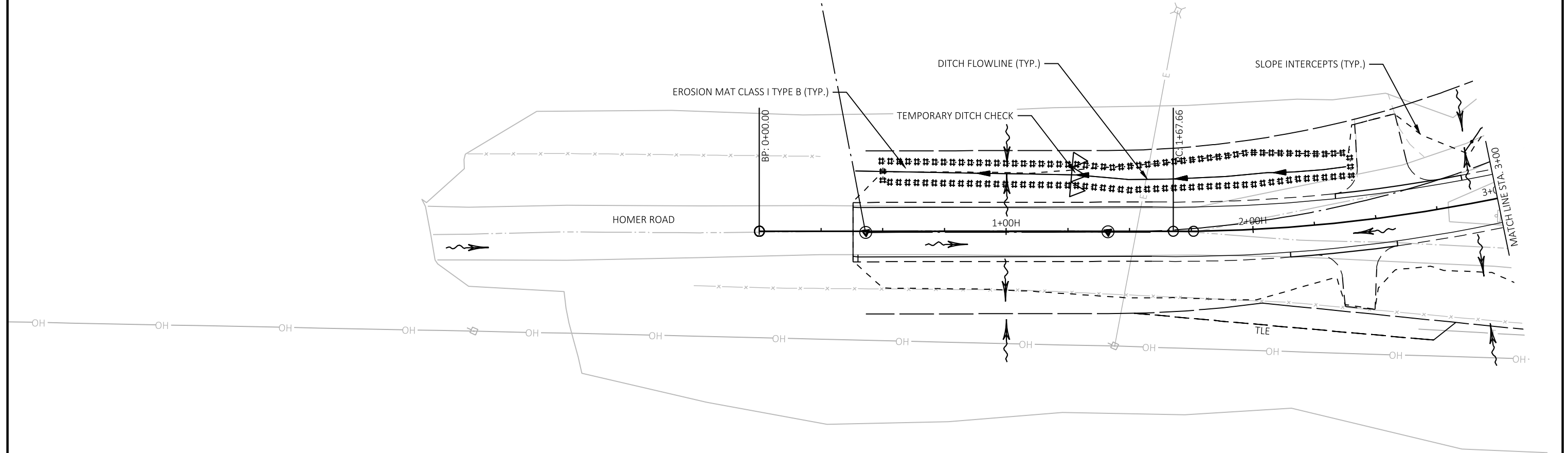
PLOT BY : SIMON SCHIFERL

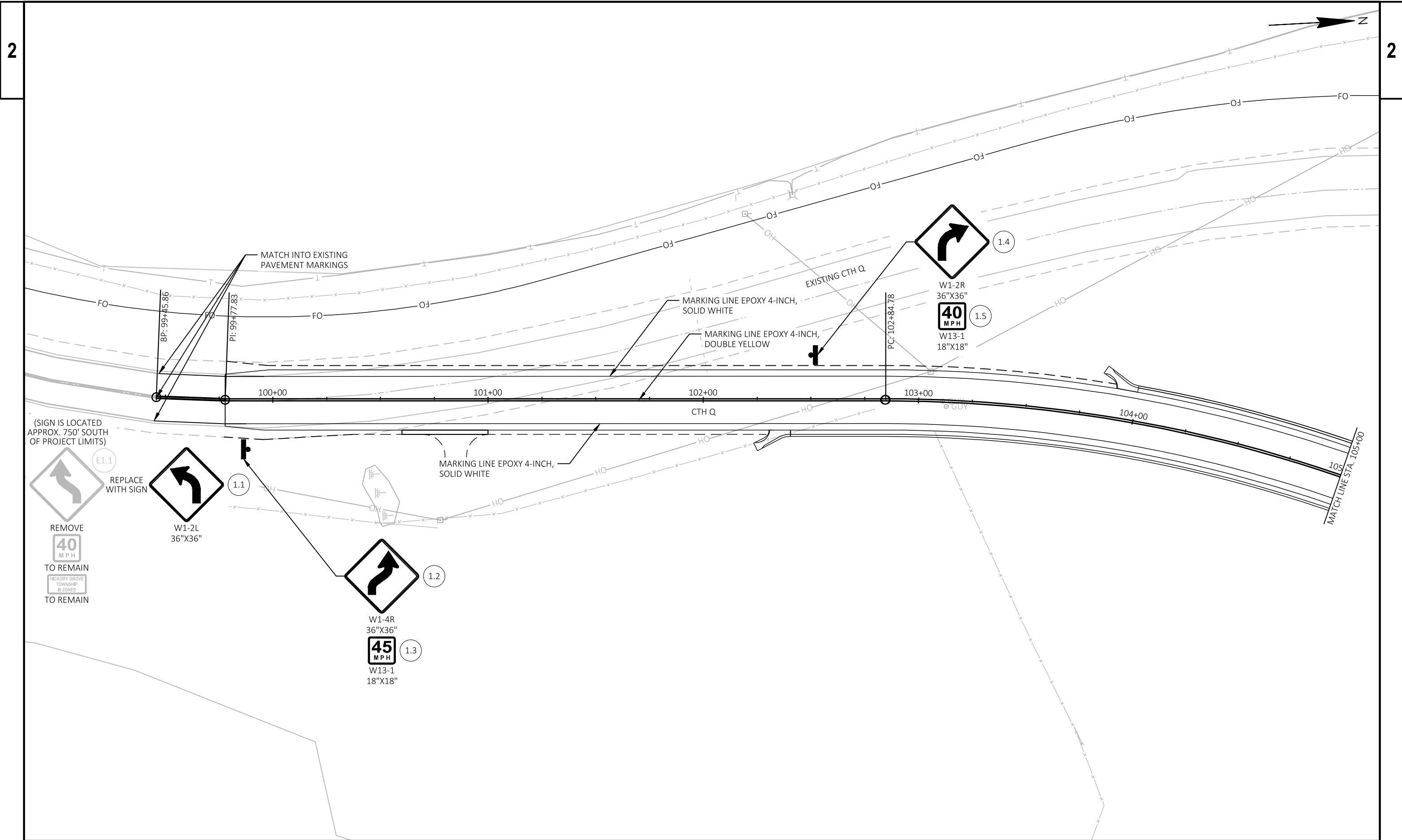
PLOT NAME :

PLOT SCALE : 1 IN=40 FT

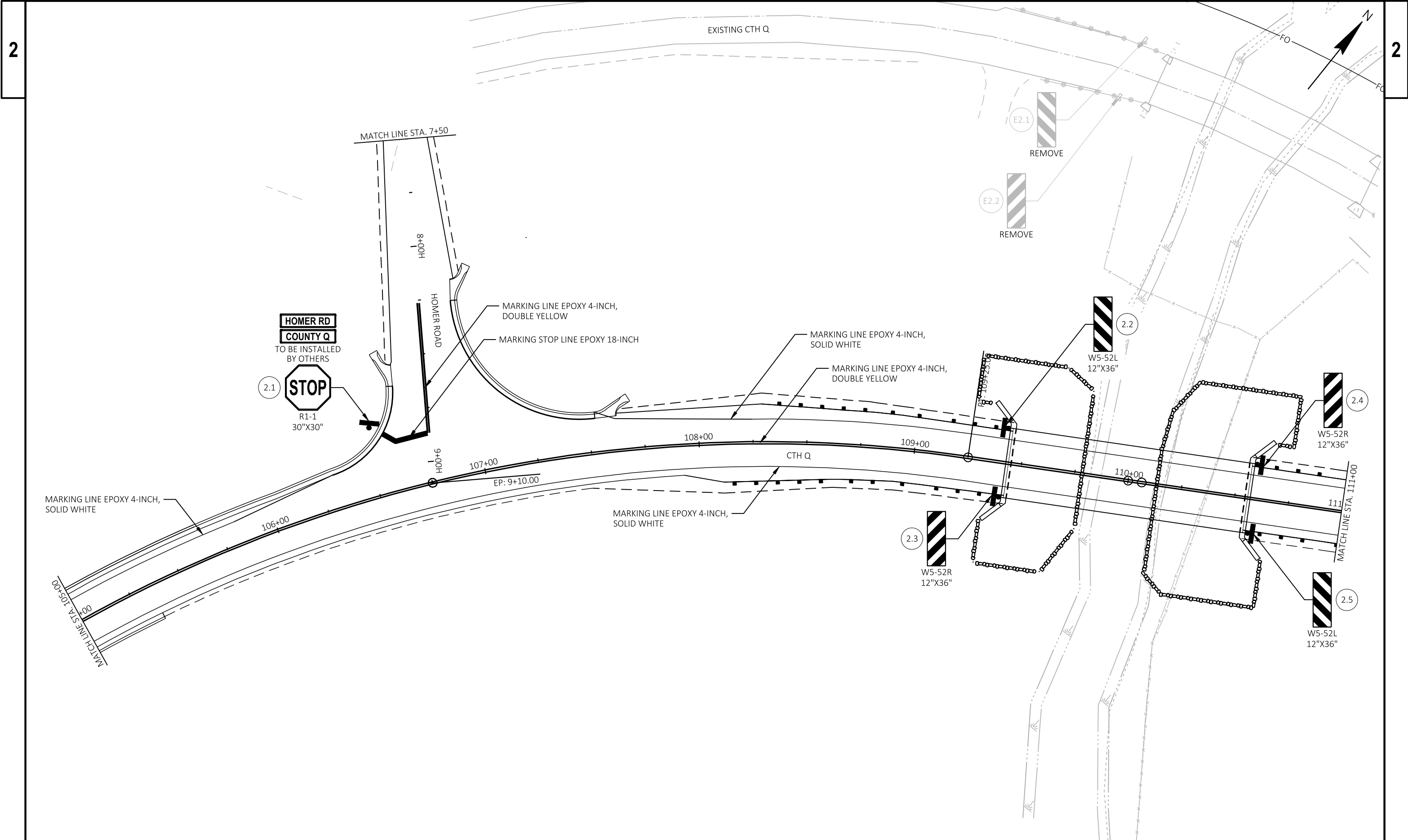
WISDOT/CADD'S SHEET 42

NOTE: PLACE MULCH IN AREAS NOT IDENTIFIED BY EROSION MAT
(EXCLUDING ROCK AREAS), INCLUDING IN OBLITERING OLD ROAD
AREAS AND AS INDICATED ON THE FINISHED TYPICAL SECTIONS.





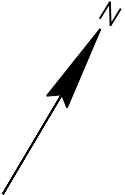
PROJECT NO: 5667-00-75	HWY: CTH Q	COUNTY: GRANT	PERMANENT SIGNING AND PAVEMENT MARKINGS	SHEET	E
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PROJECT NO: 5667-00-75	HWY: CTH Q	COUNTY: GRANT	PERMANENT SIGNING AND PAVEMENT MARKINGS	SHEET	E
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2

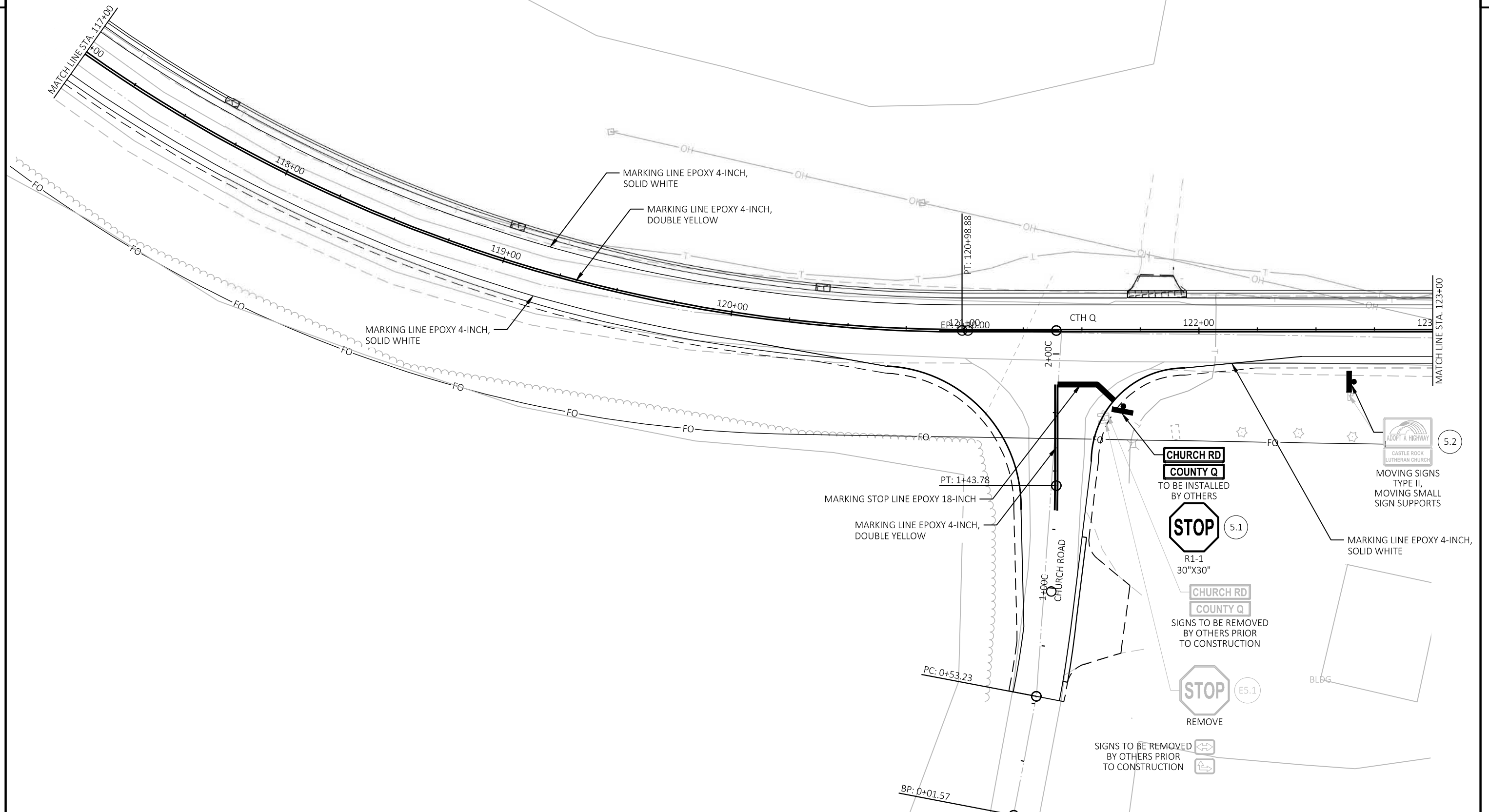
2



PROJECT NO: 5667-00-75	HWY: CTH Q	COUNTY: GRANT	PERMANENT SIGNING AND PAVEMENT MARKINGS	SHEET	E
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FILE NAME : \\MSA-PS.COM\FS\PROJECT\03\03405\03405011\CADD\SHEETPLAN\020201 - PS & PM.DWG LAYOUT NAME - 023204-ps pm	PLOT DATE :	10/18/2021 5:53 AM	PLOT BY :	SIMON SCHIFERL	PLOT NAME :		PLOT SCALE :	1 IN=40 FT	WISDOT/CADDS SHEET 42
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WISDOT/CADDS SHEET 42



PROJECT NO: 5667-00-75

HWY: CTH Q

COUNTY: GRANT

PERMANENT SIGNING AND PAVEMENT MARKINGS

SHEET

E

FILE NAME : \\MSA-PS.COM\FS\PROJECT\03\03405\03405011\CADD\SHEETS\PLAN\020201 - PS & PM.DWG
LAYOUT NAME - 023205-ps pm

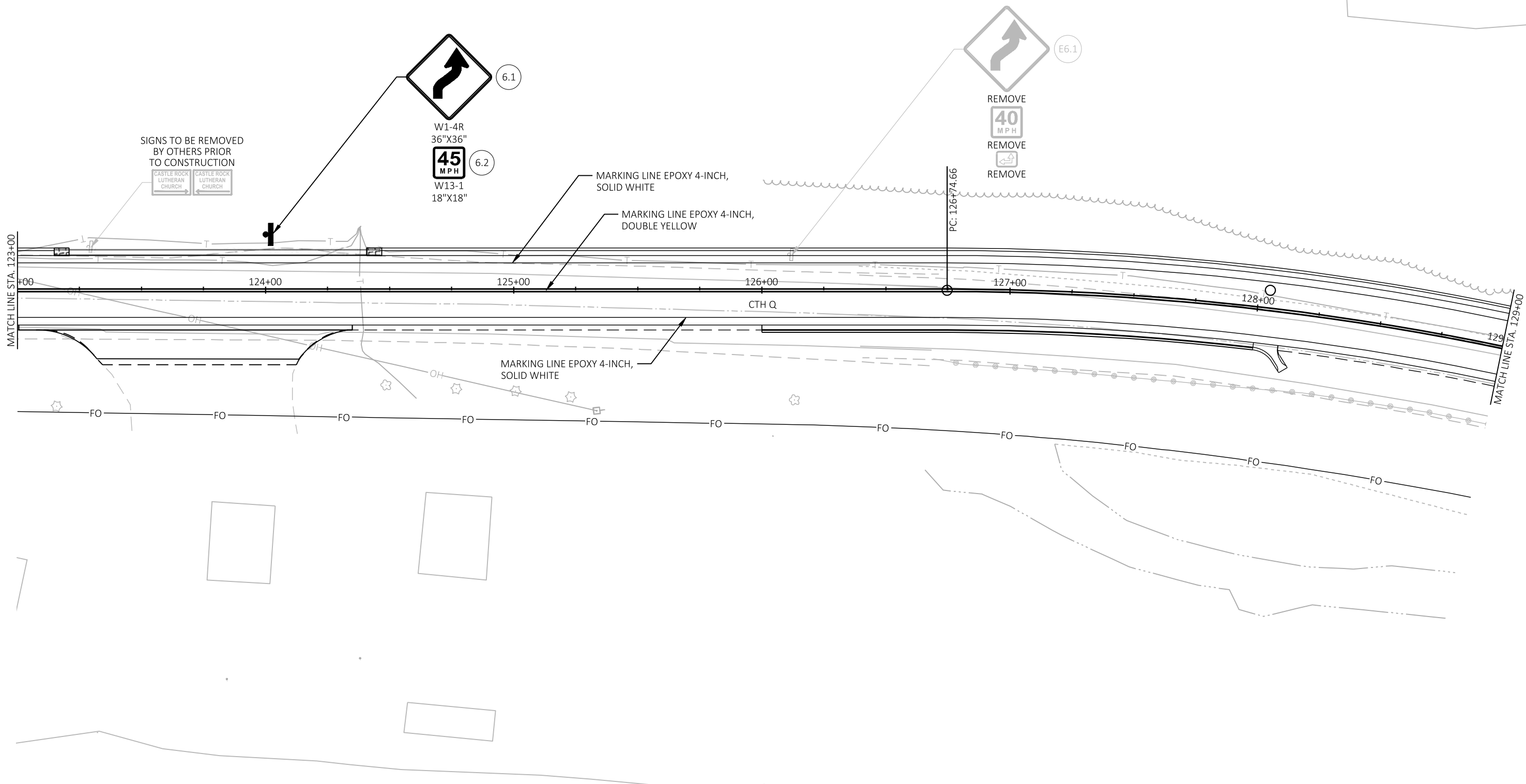
PLOT DATE : 10/18/2021 5:53 AM

PLOT BY : SIMON SCHIFERL

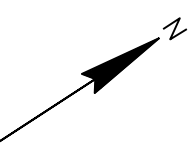
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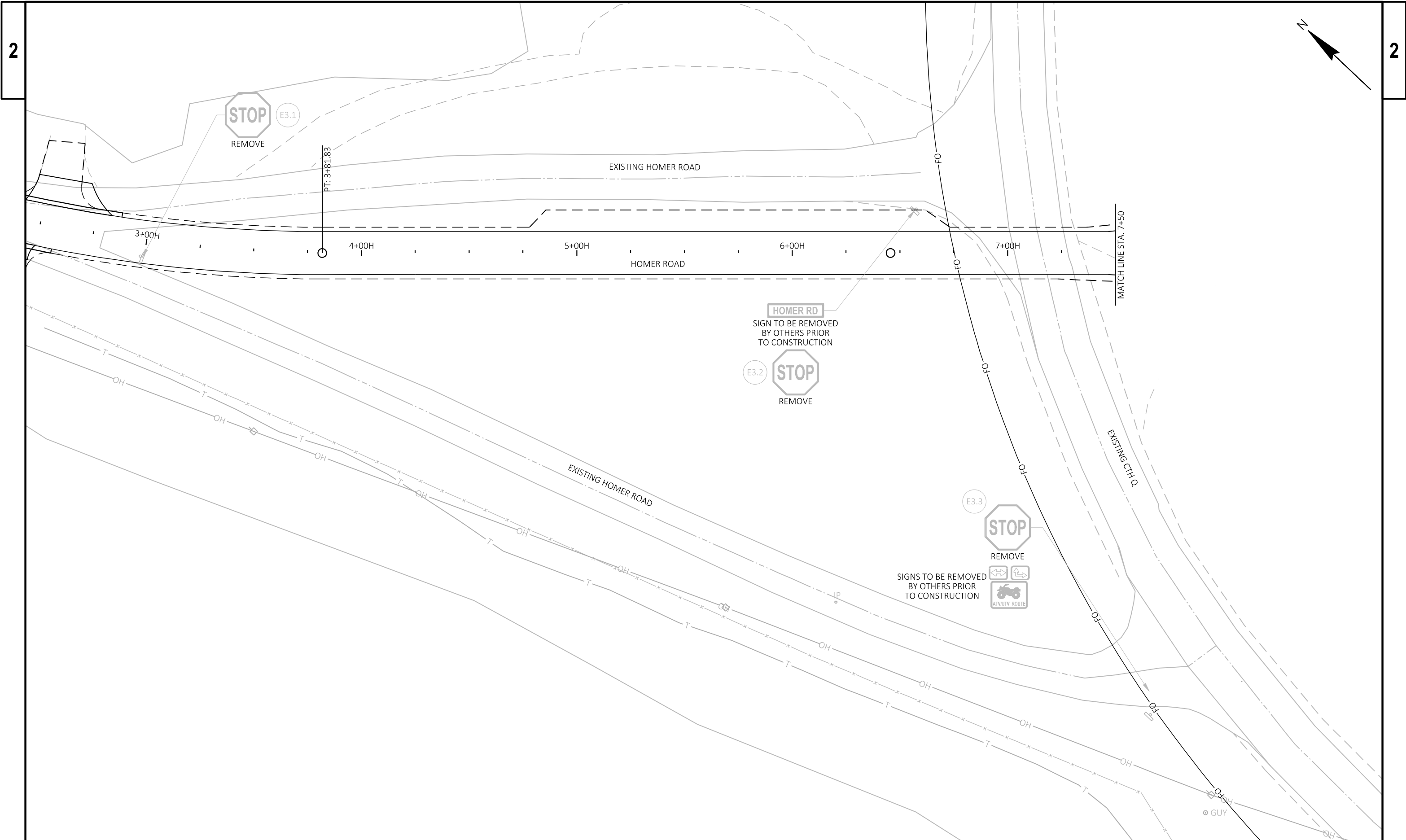
PLOT SCALE : 1 IN=40 FT

WISDOT/CADD'S SHEET 42

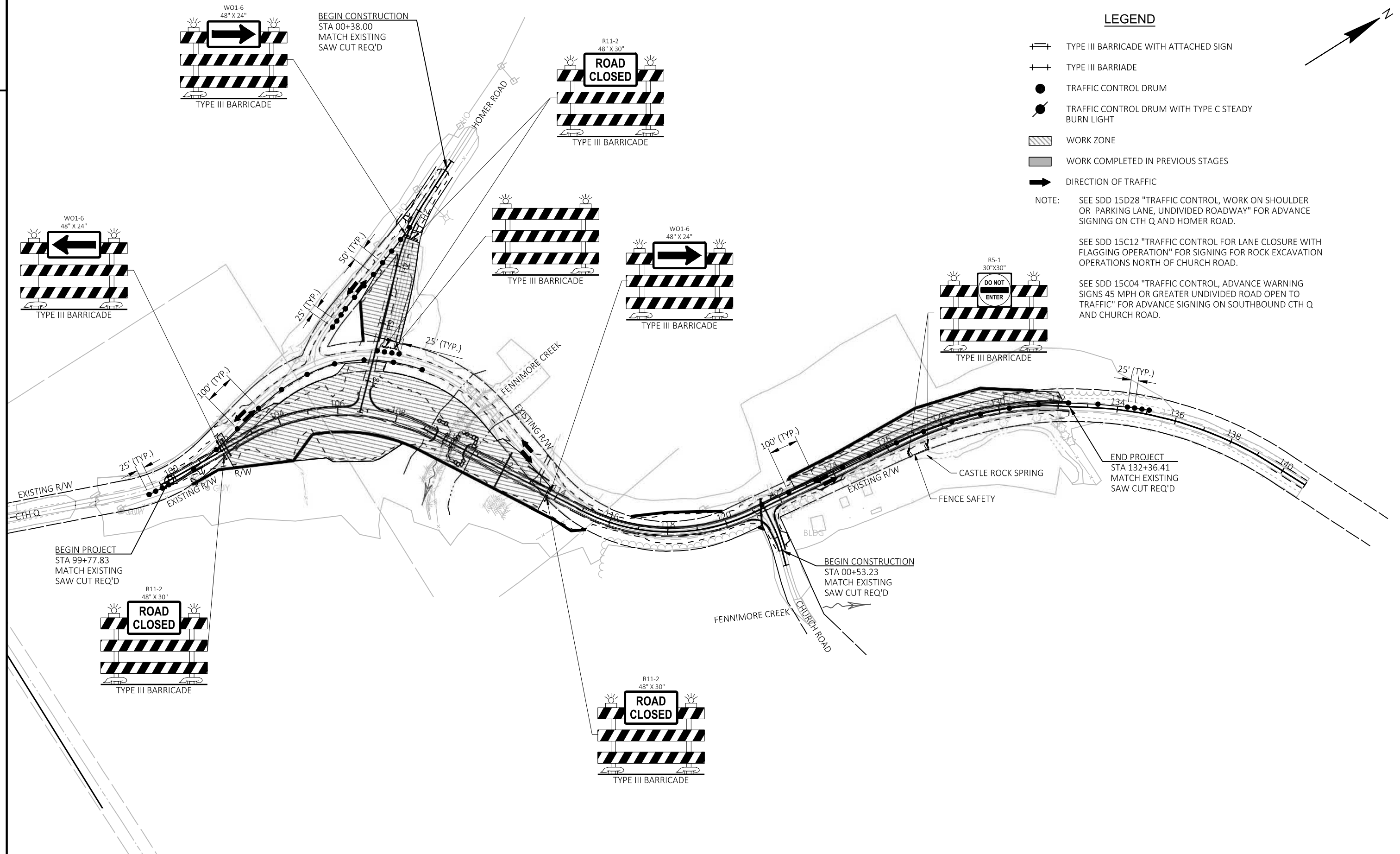


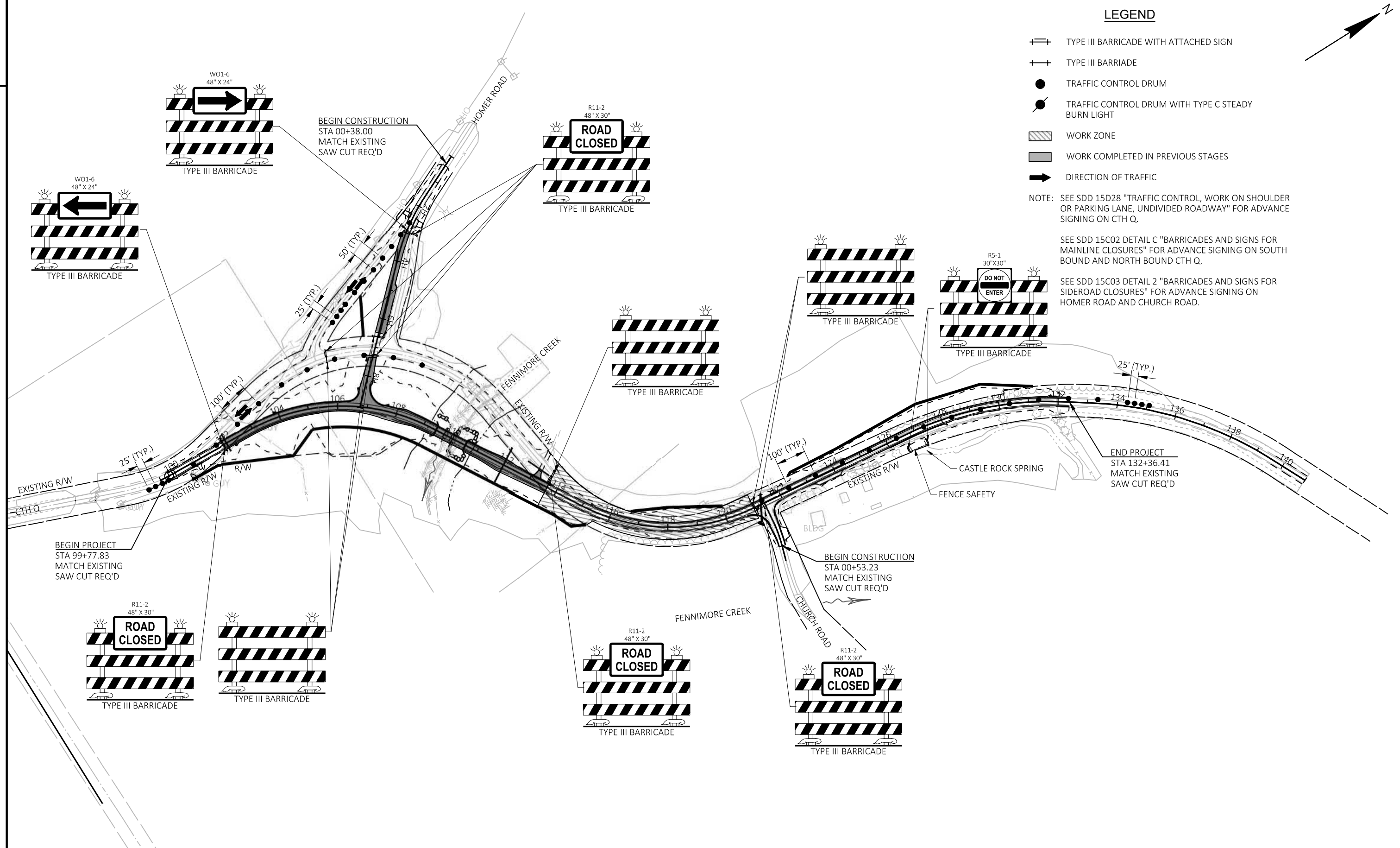
PROJECT NO: 5667-00-75	HWY: CTH Q	COUNTY: GRANT	PERMANENT SIGNING AND PAVEMENT MARKINGS	SHEET	E
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PROJECT NO: 5667-00-75	HWY: CTH Q	COUNTY: GRANT	PERMANENT SIGNING AND PAVEMENT MARKINGS	SHEET	E
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PROJECT NO: 5667-00-75

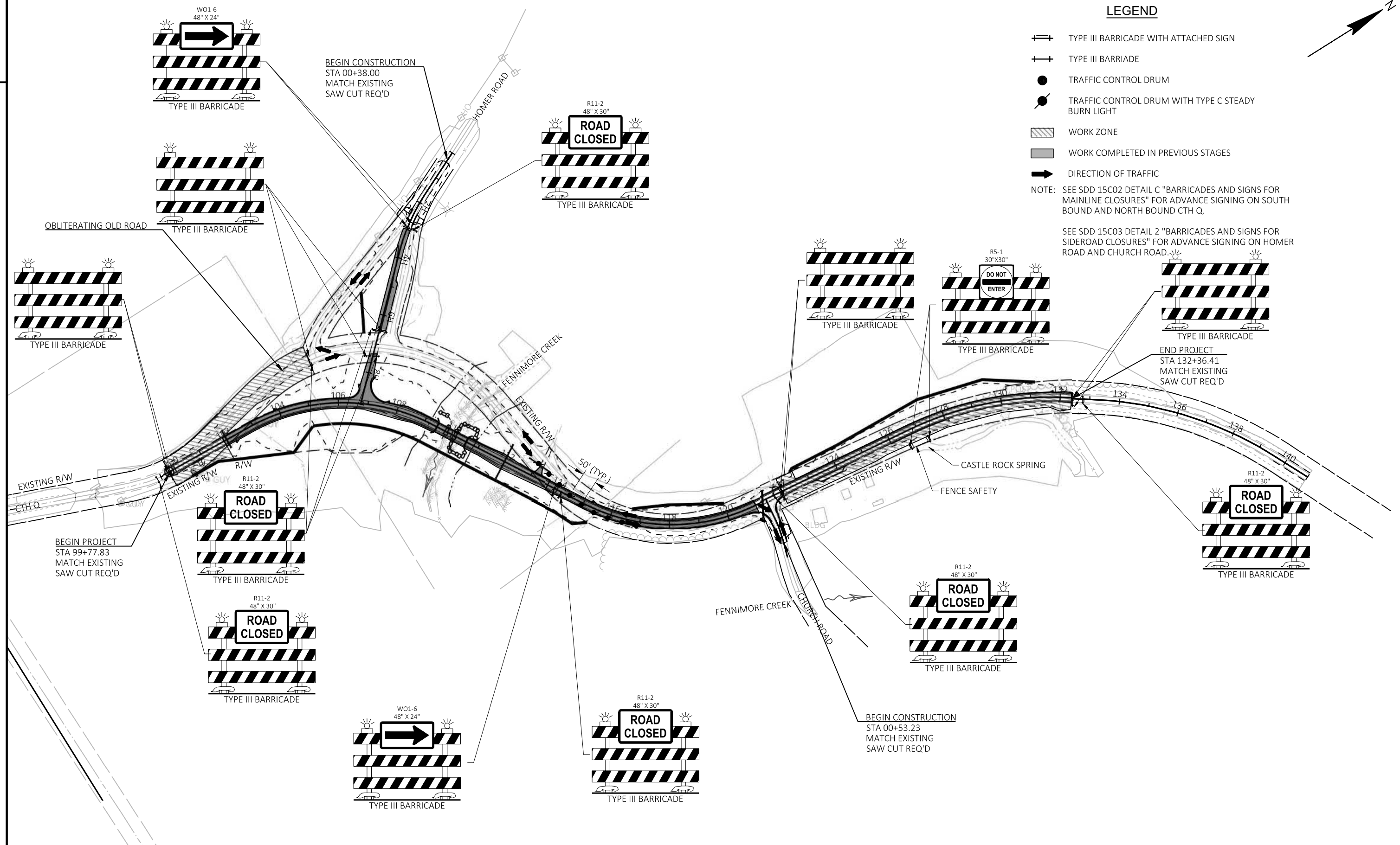
HWY: CTH Q

COUNTY: GRANT

STAGE CONSTRUCTION - STAGE 2A

SHEET

E



PROJECT NO: 5667-00-75

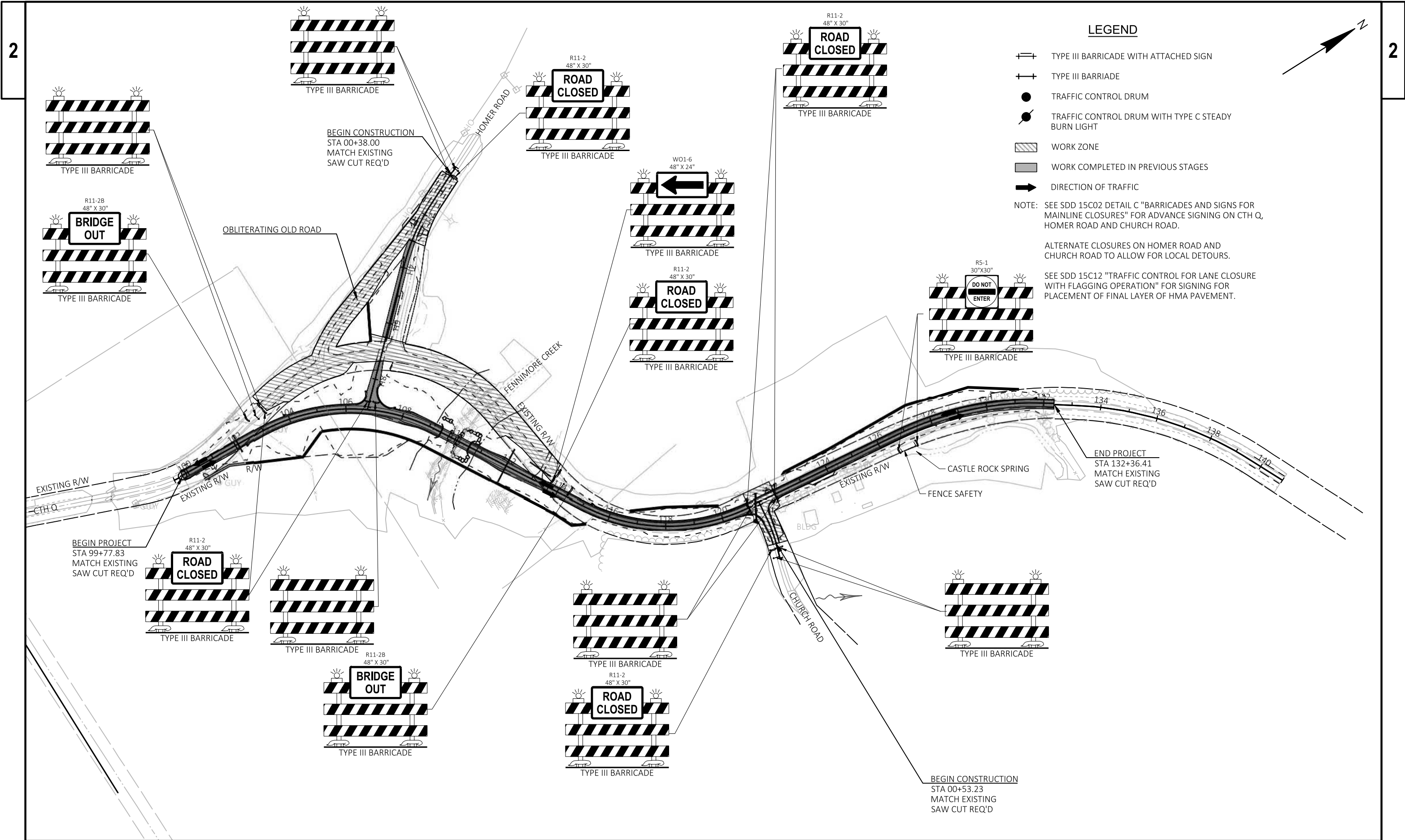
HWY: CTH Q

COUNTY: GRANT

STAGE CONSTRUCTION - STAGE 2B

SHEET

E



LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE III BARRICADE
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- WORK ZONE
- WORK COMPLETED IN PREVIOUS STAGES
- DIRECTION OF TRAFFIC

NOTE: SEE SDD 15C02 DETAIL C "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" FOR ADVANCE SIGNING ON CTH Q, HOMER ROAD AND CHURCH ROAD.

ALTERNATE CLOSURES ON HOMER ROAD AND CHURCH ROAD TO ALLOW FOR LOCAL DETOURS.

SEE SDD 15C12 "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION" FOR SIGNING FOR PLACEMENT OF FINAL LAYER OF HMA PAVEMENT.

3

EARTHWORK SUMMARY																
DIVISION	FROM/TO STATION	205.0100 COMMON EXCAVATION (1)		SALVAGED/ UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	ROCK EXCAVATION		REDUCED EBS IN FILL (9)	EXPANDED EBS BACKFILL (11)	EXPANDED ROCK (12)	UNEXPANDED FILL	EXPANDED FILL (13)	MASS ORDINATE +/- (14)	WASTE	311.0110 BREAKER RUN (TON)	COMMENT
		CUT (2)	EBS EXCAVATION (3)			205.0200 ROCK EXCAVATION	SPV.0035.01 EXCAVATION ROCK SPECIAL	FACTOR 0.80	FACTOR 1.30	FACTOR 1.10		FACTOR 1.25				
STAGE 1																
CTH QEW STAGE 1	101+95.918/132+12.845	4,544	2,513	0	4,544	31,155	6,828	2,010	3,267	41,781	36,863	-8,661	9,938	9,938	5,881	
HOMER EW STAGE 1	03+00/08+49.947	561	0	0	561	5,517	0	0	0	6,069	3,751	-2,897	3,458	3,458	0	
STAGE 1 SUBTOTAL		5,105	2,513	0	5,105	36,672	6,828	2,010	3,267	47,850	40,614	-11,558	13,396	13,396	5,881	
STAGE 2A																
CTH QEW STAGE 2A	113+64.59/121+26.25	2,163	0	0	2,163	0	0	0	0	0	3,315	4,144	-1,981	-1,989	0	USE WASTE MATERIAL FROM STAGE 1
STAGE 2A SUBTOTAL		2,163	0	0	2,163	0	0	0	0	0	3,315	4,144	-1,981	-1,989	0	
STAGE 2B																
CTH QEW STAGE 2B	99+78.767/132+35.78	2,788	187	0	2,788	0	0	150	243	0	168	23	2,765	2,765	438	
STAGE 2B SUBTOTAL		2,788	187	0	2,788	0	0	150	243	0	168	23	2,765	2,765	438	
STAGE 3																
CTH QEW STAGE 3	120+49.989/132+35.78	897	0	0	897	0	0	0	0	0	53	66	831	831	0	
CHURCH EW STAGE 3	00+53.25/01+75	101	0	0	101	0	0	0	0	0	148	185	-84	-84	0	USE WASTE MATERIAL FROM PREVIOUS STAGES
HOMER EW STAGE 3	00+38.01/07+50.00	656	0	0	656	0	0	0	0	0	1,008	1,260	-604	-604	0	USE WASTE MATERIAL FROM PREVIOUS STAGES
STAGE 3 SUBTOTAL		1,654	0	0	1,654	0	0	0	0	0	1,209	1,511	143	143	0	
GRAND TOTAL		11,710	2,700	0	11,710	36,672	6,828	2,160	3,510	47,850	45,306	-5,880	14,323	14,315	6,319	
TOTAL COMMON EXC		14,410														

NOTES:

- (1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100
- (2) SALVAGED/UNSUALE PAVEMENT MATERIAL IS INCLUDED IN CUT.
- (3) EBS EXCAVATION TO BE BACKFILLED WITH BREAKER RUN MATERIAL.
- (4) SALVAGED/UNUSABLE PAVEMENT MATERIAL
- (5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSUALE PAVEMENT MATERIAL
- (7) ROCK EXCAVATION ITEM NUMBER 205.0200
- (9) REDUCED EBS IN FILL - EXCAVATED EBS MATERIAL IS USABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = 0.80
- (11) EXPANDED EBS BACKFILL - THIS IS TO BE FILLED WITH BREAKER RUN MATERIAL. EBS BACKFILL FACTOR = 1.30
- (12) EXPANDED ROCK FACTOR = 1.10
- (13) EXPANDED FILL FACTOR = 1.25; EXPANDED FILL =(UNEXPANDED FILL - EXPANDED ROCK - REDUCED EBS) * FILL FACTOR
- (14) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.
- (15) FACTORS USED TO COMPUTE ANTICIPATED WASTE AND THE COMPUTED WASTE VOLUME IDENTIFIED ARE FOR GENERAL INFORMATION ONLY.

CLEARING AND GRUBBING

CATEGORY	STATION	TO	STATION	LOCATION	201.0105 CLEARING STA	201.0120 CLEARING ID	201.0205 GRUBBING STA	201.0220 GRUBBING ID
0010	101+00	-	110+00	LT & RT	9		9	
0010	115+00	-	120+00	LT	5		5	
0010	122+00	-	132+00	LT	10		10	
0010	113+00	-	113+00	LT		12		12
TOTAL 0010					24	12	24	12

REMOVING GUARDRAIL

CATEGORY	STATION	TO	STATION	LOCATION	204.0165 REMOVING GUARDRAIL LF
0010	109+16	-	109+89	LT	74
0010	109+32	-	109+84	LT	50
0010	110+96	-	111+43	LT	50
0010	110+89	-	111+34	LT	50
0010	126+70	-	129+80	RT	300
TOTAL 0010					524

3

CONCRETE SURFACE DRAINS

REMOVING SMALL PIPE CULVERTS

416.1010

CONCRETE
SURFACE DRAINS

OBLITERATING OLD ROAD

214.0100
OBLITERATING
OLD ROAD

CATEGORY	STATION	LOCATION	203.0100 REMOVING SMALL PIPE CULVERTS EACH	REMARKS
0010	102+00	LT	1	44-ft 24-Inch CMP
0010	121+25	LT&RT	1	66-ft 24-Inch CMP
0010	121+81	LT	1	25-ft 12-Inch CMP
TOTAL 0010			3	

CATEGORY	STATION	LOCATION	CY
0010	102+40	RT	1
0010	104+00	LT	1
0010	8+64H	RT	1
0010	8+26H	LT	1
0010	107+53	LT	1
0010	115+42	LT	1
0010	128+00	RT	1
0010	131+61	LT	1

CATEGORY	STATION	TO	STATION	LOCATION	STA
0010	103+00	-	111+00	LT	8
0010	4+00H	-	8+00H	RT	4
TOTAL 0010					12

TOTAL 0010

8

CULVERT AND STORM SEWER ITEMS

			522.0118		522.0124		522.0424		522.1018 APRON		522.1024 APRON		522.1030 APRON		608.0430		611.2005		611.9800.S		628.7555		633.5200		650.4000		650.6000		SPV.0060.01	
			CULVERT PIPE REINFORCED CONCRETE CLASS III 18-INCH		CULVERT PIPE REINFORCED CONCRETE CLASS III 24-INCH		CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH		ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18- INCH		ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24- INCH		ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30- INCH		STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 30-INCH		MANHOLES 5-FT DIAMETER		PIPE GRATES		CULVERT PIPE CHECKS		MARKERS CULVERT END		CONSTRUCTION STAKING STORM SEWER		CONSTRUCTION STAKING PIPE CULVERTS		SPECIAL (01. TOP MOUNT GRATE 48-INCH)	
CATEGORY	STATION	LOCATION	INVERT STATION	ELEV.	OUTLET STATION	ELEV.	MANHOLE* STATION		RIM ELEV.	LF	LF	LF	EACH	EACH	EACH	LF	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	REMARKS
0010	102+00	LT&RT	102+00, 24.3' RT	834.94'	102+00, 27.0' LT	834.66'							2					2		3		2					1			
0010	112+00	LT&RT	112+00, 58.3' LT	824.55'	112+00, 56.5' RT	824.07'					115			2					3		2					1				
0010	113+02	LT	113+48, 39.2' LT	831.47'	112+75, 48.8' LT	827.85'				74			2						2		2					1				
0010	121+06	LT&RT	121+39	830.23'	121+08, 47.1' RT	829.94'	121+39, 29.8' LT	834.47							1	83	1	1	5	1	2					1	MANHOLE DEPTH: 830.23' USE FLAT SLAB TOP WITH 48" OPENING			
TOTAL 0010										74	115	52	2	4	1	83	1	3	13	7	2	3	1							

* STATION AND OFFSET MEASURED TO CENTER OF STRUCTURE
** DEPTH = RIM ELEV - INVERT ELEV

INLET PROTECTION

BASE AGGREGATE DENSE ITEMS

			305.0110	305.0120 BASE AGGREGATE DENSE 1 1/4- INCH	624.0100 WATER MGAL
CATEGORY	STATION	TO	STATION	LOCATION	TON
0010	99+78	-	109+43	LT & RT	130
0010	110+57	-	121+40	LT & RT	145
0010	121+40	-	132+37	LT & RT	105
0010	0+38H	-	8+97H	LT & RT	165
0010	0+53C	-	1+95C	LT & RT	35
0010	100+70	-	101+00	RT	5
0010	113+07	-	113+31	LT	45
0010	121+70	-	121+95	LT	5
0010	123+11	-	124+35	RT	50
0010	2+34H	-	2+48H	RT	15
0010	2+43H	-	2+76H	LT	20
0010	2+43H	-	2+76H	LT	55
0010	0+61C	-	1+22C	RT	30
TOTAL 0010			580.00	11,960	175

628.7020
INLET
PROTECTION
TYPE D
EACH

CATEGORY	STATION	LOCATION	EACH
0010	121+39	LT	1
TOTAL 0010			1

TURBIDITY BARRIERS

CATEGORY	STATION	TO	STATION	LOCATION	628.6005 TURBIDITY BARRIERS SY
0010	109+95	-	109+95	LT	132
0010	110+04	-	110+17	LT	76
0010	110+10	-	110+10	LT	160
0010	110+42	-	110+72	LT	76

TOTAL 0010

444

EROSION CONTROL MOBILIZATION ITEMS

CATEGORY	LOCATION	EACH	628.1905 MOBILIZATIONS EROSION CONTROL	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL
0010	Project 5667-00-75	8	4	
TOTAL 0010		8	4	

PROJECT NO: 5667-00-75

HWY: CTH Q

COUNTY: GRANT

MISCELLANEOUS QUANTITIES

SHEET:

E

3

3

ASPHALTIC ITEMS										GUARDRAIL ITEMS											
					455.0605	460.5223	460.5224						614.2300	614.2500	614.2610						
					TACK COAT	HMA PAVEMENT	HMA PAVEMENT						MGS GUARDRAIL	MGS THRIE	MGS GUARDRAIL						
					GAL	3 LT 58-28 S	4 LT 58-28 S						3	BEAM	TERMINAL EAT						
CATEGORY	STATION	TO	STATION	LOCATION		TON	TON						LF	LF	EACH						
0010	99+78	-	109+43	LT & RT	157	528	352						0010	108+11	-	109+44	RT	37.5	39.4	1	
0010	110+57	-	121+40	LT & RT	175	587	392						0010	108+29	-	109+44	LT	25.0	39.4	1	
0010	121+40	-	132+37	LT & RT	173	580	387						0010	110+56	-	111+86	RT	37.5	39.4	1	
0010	0+38H	-	8+97H	LT & RT	110	370	247						0010	110+56	-	111+86	LT	37.5	39.4	1	
0010	0+53C	-	1+95C	LT & RT	28	95	62						0010		-						
TOTAL 0010					643	2,160	1,440						TOTAL 0010					137.5	157.6	4	
FINISHING ITEMS																					
					625.0100	625.0500	627.0200	628.1504	628.1520	628.2004	628.2039	628.7504	629.0210	630.0120	630.0170	630.0200	630.0400	630.0500			
					TOPSOIL	SALVAGED	MULCHING	SILT FENCE	SILT FENCE	EROSION MAT	EROSION MAT	TEMPORARY	FERTILIZER TYPE	SEEDING	SEEDING	SEEDING	SEEDING NURSE				
CATEGORY	STATION	TO	STATION	LOCATION	SY	SY	SY	LF	LF	SY	SY	LF	CWT	LB	LB	LB	LB	MGAL			
0010	99+78	-	109+43	LT & RT	3,959	5,977	6,857	280	560	2,877	202	240	13.0	286	10	148	20	461			
0010	109+43	-	121+40	LT & RT	2,668	5,800	3,373	1,508	3,016	5,095		60	10.4	216	2	109	4	370			
0010	121+40	-	132+37	LT & RT	4,012	983	2,096	1,092	2,184	1,574	1,325	50	6.4	137	0	69	0	227			
0010	0+38H		8+97H	LT & RT	8,801	1,852	8,605	366	732	2,048		100	7.4	29	8	19	16	263			
0010	0+53C		2+10C	LT & RT	13	86	37			62			0.3	7	0	4	0	8			
Undistributed					4947	3702	5332	754	1508	2844	373	110	9.4	169	5	88	14	371			
TOTAL 0010					24,400	18,400	26,300	4,000	8,000	14,500	1,900	560	46.9	844	25	437	54	1,700			
TRACKING PADS																					
					628.7560						633.5100						638.2602	638.3000			
					TRACKING PADS						MARKERS ROW						REMOVING	REMOVING			
					EACH						EACH						SIGNS TYPE II	SMALL SIGN			
					REMARKS						REMARKS						SUPPORTS				
0010	99+78				1	BEGINNING OF PROJECT					0010	Project		44							
0010	132+36				1	END OF PROJECT					TOTAL 0010					44					
0010	0+38H				1	END OF CONSTRUCTION LIMITS															
TOTAL 0010					3																
FENCE SAFETY																					
					616.0700.S																
					FENCE SAFETY																
					LF																
0010	126+65	-	127+21	RT	132																
TOTAL 0010					132																
REMOVING SIGNS																					
					638.2602	638.3000															
					REMOVING	REMOVING															
					SIGNS TYPE II	SMALL SIGN															
					SUPPORTS																
0010	99+78				1	BEGINNING OF PROJECT					0010	Project		44							
0010	132+36				1	END OF PROJECT					TOTAL 0010					44					
0010	0+38H				1	END OF CONSTRUCTION LIMITS															
TOTAL 0010					3																
FENCE SAFETY																					
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					LF																
0010	126+65	-	127+21	RT	132																
TOTAL 0010					132																
REMOVING SIGNS																					
					638.2602	638.3000															
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					SIGNS TYPE II	SMALL SIGN															
					SUPPORTS																
0010	99+78				1	BEGINNING OF PROJECT					0010	Project		44							
0010	132+36				1	END OF PROJECT					TOTAL 0010					44					
0010	0+38H				1	END OF CONSTRUCTION LIMITS															
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FENCE SAFETY																					
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0010	99+78				1	BEGINNING OF PROJECT					0010	Project		44							
0010	132+36				1	END OF PROJECT					TOTAL 0010					44					
0010	0+38H				1	END OF CONSTRUCTION LIMITS															
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					SUPPORTS																
0010	99+78				1	BEGINNING OF PROJECT					0010	Project		44							
0010	132+36				1	END OF PROJECT					TOTAL 0010					44					
0010	0+38H				1	END OF CONSTRUCTION LIMITS															
TOTAL 0010					3																
FENCE SAFETY																					
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0010	126+65	-	127+21	RT	132																
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REMOVING SIGNS																					
					638.2602	638.3000															
					REMOVING	REMOVING															
					SIGNS TYPE II	SMALL SIGN															
					SUPPORTS																
0010	99+78				1	BEGINNING OF PROJECT					0010	Project		44							
0010	132+36				1	END OF PROJECT					TOTAL 0010					44					
0010	0+38H				1	END OF CONSTRUCTION LIMITS															
TOTAL 0010					3																
FENCE SAFETY																					
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					FENCE SAFETY																
					LF																
0010	126+65	-	127+21	RT	132																
TOTAL 0010					132																
REMOVING SIGNS																					
					638.2602	638.3000															
					REMOVING	REMOVING															
					SIGNS TYPE II	SMALL SIGN															
					SUPPORTS																
0010	99+78				1	BEGINNING OF PROJECT					0010	Project		44							
0010	132+36				1	END OF PROJECT					TOTAL 0010					44					
0010	0+38H				1	END OF CONSTRUCTION LIMITS															
TOTAL 0010					3																
FENCE SAFETY																					
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0010	126+65	-	127+21	RT	132																
TOTAL 0010					132																
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					638.2602	638.3000															
					REMOVING	REMOVING															
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					SUPPORTS																
0010	99+78				1	BEGINNING OF PROJECT					0010	Project		44							
0010	132+36				1	END OF PROJECT					TOTAL 0010					44					
0010	0+38H				1	END OF CONSTRUCTION LIMITS															
TOTAL 0010					3																
FENCE SAFETY																					
					616.0700.S																
					FENCE SAFETY																
					LF																
0010	126+65	-	127+21	RT	132																
TOTAL 0010					132																
REMOVING SIGNS																					
					638.2602	638.3000															
					REMOVING	REMOVING															
					SIGNS TYPE II	SMALL SIGN															
					SUPPORTS																
0010	99+78				1	BEGINNING OF PROJECT					0010	Project		44							
0010	132+36				1	END OF PROJECT					TOTAL 0010					44					
0010	0+38H				1	END OF CONSTRUCTION LIMITS															
TOTAL 0010					3																
FENCE SAFETY																					
					616.0700.S																
					FENCE SAFETY																
					LF																
0010	126+65	-	127+21	RT	132																
TOTAL 0010					132																
REMOVING SIGNS																					
					638.2602	638.3000															
					REMOVING	REMOVING															
					SIGNS TYPE II	SMALL SIGN															
					SUPPORTS																
0010	99+78				1	BEGINNING OF PROJECT					0010	Project		44							
0010	132+36				1	END OF PROJECT					TOTAL 0010					44					
0010	0+38H				1	END OF CONSTRUCTION LIMITS															
TOTAL 0010					3																
FENCE SAFETY																					
					616.0700.S																
					FENCE SAFETY																
					LF																
0010	126+65	-	127+21	RT	132																
TOTAL 0010					132																
REMOVING SIGNS																					
					638.2602	638.3000															
					REMOVING	REMOVING															
					SIGNS TYPE II	SMALL SIGN															
					SUPPORTS																
0010	99+78				1	BEGINNING OF PROJECT					0010	Project		44							
0010	132+36				1	END OF PROJECT					TOTAL 0010					44					
0010	0+38H				1	END OF CONSTRUCTION LIMITS															
TOTAL 0010					3																
FENCE SAFETY																					
					616.0700.S																
					FENCE SAFETY																

PROJECT NO: 5667-00-75	HWY: CTH Q	COUNTY: GRANT	MISCELLANEOUS QUANTITIES	SHEET:
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3

PERMANENT SIGNING												
				634.0612 POSTS WOOD 4X6-INCH X 12- FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16- FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF					
CATEGORY	STATION	LOCATION						REMARKS				
0010	N/A	RT				-	9.00	1.1 (W1-2L) 750' S OF PROJECT LIMITS, REPLACE EXISTING W1-4L				
0010	99+85	RT			1	-	9.00	1.2 (W1-4R)				
0010	99+85	RT				-	2.25	1.3 (W13-1; 45 MPH)				
0010	102+50	LT			1		9.00	1.4 (W1-2R)				
0010	102+50	LT					2.25	1.5 (W13-1; 40 MPH)				
0010	8+82H	RT (Homer)			1	5.18	-	2.1 (R1-1) {Signs installed by others on same post}				
0010	109+41	LT		1		-	3.00	2.2 (W5-52L)				
0010	109+42	RT		1		-	3.00	2.3 (W5-52R)				
0010	110+58	LT		1		-	3.00	2.4 (W5-52R)				
0010	110+58	RT		1		-	3.00	2.5 (W5-52L)				
0010	1+78C	RT (Church)			1	5.18	-	5.1 (R1-1) {Signs installed by others on same post}				
0010	124+00				1	-	9.00	6.1 (W1-4R)				
0010	124+00					-	2.25	6.2(W13-1; 45 MPH)				
		TOTAL 0010		4	5	10.36	54.75					
GEOTEXTILE												
645.0115 GEOTEXTILE TYPE ES SY												
CATEGORY	STATION	TO	STATION	LOCATION		REMARKS						
0010	126+69	-	128+15	RT	280	USE AS DIRECTED BY THE ENGINEER						
				TOTAL 0010	280							
643.0300												
643.0420												
643.0705												
TRAFFIC CONTROL												
TRAFFIC CONTROL WARNING LIGHTS TYPE A												
643.0715												
WARNING LIGHTS TYPE C												
643.0900												
TRAFFIC CONTROL SIGNS												
CATEGORY	STATION	TO	STATION	LOCATION		EACH*	DAY	EACH*	DAY	EACH*	DAY	REMARKS
STAGE 1												
0010				PROJECT		29	1,740	14	840	20	1,200	
0010	122+50	-	132+36	LT		0	0	0	0	0	0	
0010	122+50	-	132+36	LT		17	680	0	0	0	0	
0010				UNDISTRIBUTED		5	300	3	180	6	360	
STAGE 1 SUBTOTALS						51	2,720	17	1,020	26	1,560	
STAGE 2A												
0010				PROJECT		42	462	28	308	40	440	
				UNDISTRIBUTED		4	44	2	22	5	55	
STAGE 2A SUBTOTALS						46	506	30	330	45	495	
STAGE 2B												
0010				PROJECT		9	99	36	396	48	528	9
0010				UNDISTRIBUTED		4	44	4	44	6	66	4
STAGE 2B SUBTOTALS						13	143	40	440	54	594	13
STAGE 3												
0010				PROJECT		0	0	49	735	70	1,050	
0010				FLAGGING		0	0	0	0		0	
0010				UNDISTRIBUTED		10	150	4	60	5	75	
STAGE 3 SUBTOTALS						10	150	53	795	75	1,125	
				TOTAL 0010		120	3,519	140	2,585	200	3,774	13
*FOR INFORMATION ONLY												

MOVING SIGNS							
CATEGORY	STATION	TO	STATION	LOCATION	638.2102	638.4000	REMARKS
					MOVING SIGNS	MOVING SMALL	
					TYPE II	SIGN SUPPORTS	
					EACH	EACH	
0010	122+65	-	122+66	RT	1	1	5.2 (Adopt a Highway)
RIPRAP							
CATEGORY	STATION	TO	STATION	LOCATION	606.0200	645.0130	
					RIPRAP MEDIUM	GEOTEXTILE TYPE	
					CY	R SY	
0010	102+00	-	102+00	LT	6	11	
0010	101+96	-	102+25	RT	10	20	
0010	103+59	-	103+85	LT	10	20	
0010	4+04H	-	4+34H	RT	14	28	
0010	8+64H	-	8+64H	RT	19	38	
0010	8+26H		8+26H	LT	15	30	
0010	107+53		107+53	LT	19	38	
0010	111+96	-	112+04	RT	4	7	
0010	112+88	-	113+00	LT	3	6	
0010	114+98	-	115+26	LT	10	20	
0010	121+06	-	121+06	RT	4	8	
0010	131+76	-	132+00	LT	9	18	
TOTAL 0010					123	244	

3

PAVEMENT MARKINGS

		646.1020		646.6120			
		MARKING LINE		MARKING STOP			
		EPOXY 4-INCH		LINE EPOXY 18-INCH			
CATEGORY	STATION	TO	STATION	LOCATION	LF	LF	REMARKS
0010	99+46	-	110+57	CENTERLINE	2,222		YELLOW
0010	99+46	-	110+57	LT & RT	2,098		WHITE
0010	110+57	-	121+40	CENTERLINE	2,167		YELLOW
0010	110+57	-	121+40	LT & RT	2,189		WHITE
0010	121+40	-	132+75	CENTERLINE	2,270		YELLOW
0010	121+40	-	132+75	LT & RT	2,279		WHITE
0010	8+26H	-	8+87H	CENTERLINE	121		YELLOW
0010	8+85H	-	8+87H	RT	-	23	WHITE
0010	1+33C	-	1+87C	CENTERLINE	108		YELLOW
0010	1+80C	-	1+87C	RT	-	27	WHITE
TOTAL 0010					13,454	50	

CURB & GUTTER ITEMS

		601.0557		650.5500			
		CONCRETE CURB		CONSTRUCTION			
		& GUTTER 6-INCH SLOPED 36-INCH TYPE D		STAKING CURB GUTTER AND CURB & GUTTER			
CATEGORY	STATION	TO	STATION	LOCATION	LF	LF	
0010	102+40	-	105+35	RT	290	290	
0010	104+00	-	106+68	LT	291	291	
0010	107+00	-	107+53	LT	97	97	
0010	115+42	-	131+61	LT	1,614	1,614	
0010	126+00	-	128+00	RT	200	200	
TOTAL 0010					2,492	2,492	

CONSTRUCTION STAKING

		650.4500		650.5000		650.9910.01		650.9920	
		CONSTRUCTION		CONSTRUCTION		CONSTRUCTION		CONSTRUCTION	
		STAKING		STAKING		CONTROL		STAKING	
		SUBGRADE		BASE		(PROJECT) (01.5667-00-75)		SLOPE	
CATEGORY	STATION	TO	STATION	LOCATION	LF	LF	LS	STAKES	LF
0010	99+78	-	109+43	LT & RT	965	965			965
0010	110+57	-	121+40	LT & RT	1,083	1,083			1,083
0010	121+40	-	132+37	LT & RT	1,097	1,097			1,097
0010	0+38H		8+97H	LT & RT	859	859			859
0010	0+53C		2+10C	LT & RT	157	157			157
0010			PROJECT 5667-00-75				1		
TOTAL 0010					4,161	4,161	1		4,161

SAWING ASPHALT

		690.0150					
		SAWING					
		ASPHALT					
CATEGORY	STATION	TO	LOCATION	LF	REMARKS		
0010	99+78	-	LT&RT	25			
0010	132+36	-	LT&RT	25			
0010	0+38H	-	LT&RT	20			
0010	0+53C	-	LT&RT	21			
0010	UNDISTRIBUTED			100	FOR STAGING		
TOTAL 0010				191			

BIRD DETERRENT

		999.2000.S			
		INSTALLING AND			
		MAINTAINING			
		BIRD DETERRENT			
		SYSTEM			
CATEGORY	STATION	LOCATION	EACH		
0010	110+38	B-22-0040	1		
TOTAL 0010			1		

CONVENTIONAL SYMBOLS

SECTION LINE	---	SECTION CORNER SYMBOL		R/W MONUMENT (TO BE SET)	•
QUARTER LINE	---	SIXTEENTH LINE	---	NON-MONUMENTED R/W POINT	○
NEW REFERENCE LINE	---	NEW R/W LINE	---	FOUND IRON PIN (1-INCH UNLESS NOTED)	IP
EXISTING R/W OR HE LINE	---	PROPERTY LINE	---	GEODETIC SURVEY MONUMENT	
LOT, TIE & OTHER MINOR LINES	---	SIXTEENTH CORNER MONUMENT	---	SIGN	
SLOPE INTERCEPT	---	OFF-PREMISE SIGN		COMPENSABLE	
CORPORATE LIMITS	---	ELECTRIC POLE		NON-COMPENSABLE	
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC.)	---	TELEPHONE POLE			
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)	---	PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)			
TEMPORARY LIMITED EASEMENT AREA	---	ACCESS RESTRICTED BY ACQUISITION			
EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)	---	NO ACCESS (BY STATUTORY AUTHORITY)			
TRANSMISSION STRUCTURES	---	ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)			
BUILDING TO BE REMOVED		NO ACCESS (NEW HIGHWAY)			
BRIDGE		PARCEL NUMBER (25)			
CULVERT		UTILITY NUMBER (40)			
		PARALLEL OFFSETS			

CONVENTIONAL UTILITY SYMBOLS

WATER	---
GAS	---
TELEPHONE	---
OVERHEAD TRANSMISSION LINES	---
ELECTRIC	---
CABLE TELEVISION	---
FIBER OPTIC	---
SANITARY SEWER	---
STORM SEWER	---
ELECTRIC TOWER	

POWER POLE	---
TELEPHONE POLE	---
TELEPHONE PEDESTAL	---

CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	OUTLOT	OL
ACRES	AC	PAGE	P
AHEAD	AH	POINT OF TANGENCY	PT
ALUMINUM	ALUM	PROPERTY LINE	PL
AND OTHERS	ET AL	RECORDED AS	(100')
BACK	BK	REEL / IMAGE	R/I
BLOCK	BLK	REFERENCE LINE	R/L
CENTERLINE	C/L	PERMANENT LIMITED EASEMENT	PLE
CERTIFIED SURVEY MAP	CSM	POINT OF BEGINNING	POB
CONCRETE	CONC	POINT OF CURVATURE	PC
COUNTY	CO	POINT OF COMPOUND CURVE	PCC
COUNTY TRUNK HIGHWAY	CTH	POINT OF INTERSECTION	PI
DISTANCE	DIST	REMAINING	REM
CORNER	COR	RESTRICTIVE DEVELOPMENT EASEMENT	RDE
DOCUMENT NUMBER	DOC	RIGHT	RT
EASEMENT	EASE	RIGHT OF WAY	R/W
EXISTING	EX	SECTION	SEC
GAS VALVE	GV	SEPTIC VENT	SEPV
GRID NORTH	GN	SQUARE FEET	SF
HIGHWAY EASEMENT	HE	STATE TRUNK HIGHWAY	STH
IDENTIFICATION	ID	STATION	STA
LAND CONTRACT	LC	TELEPHONE PEDESTAL	TP
LEFT	LT	TEMPORARY LIMITED EASEMENT	TLE
MONUMENT	MON	TRANSPORTATION PROJECT PLAT	TPP
NATIONAL GEODETIC SURVEY	NGS	UNITED STATES HIGHWAY	USH
NUMBER	NO	VOLUME	V

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), GRANT COUNTY, NAD83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICALLY 3/4"x24" REBAR) AND ARE PLACED AT THE COMPLETION OF THE CONSTRUCTION PROJECT.

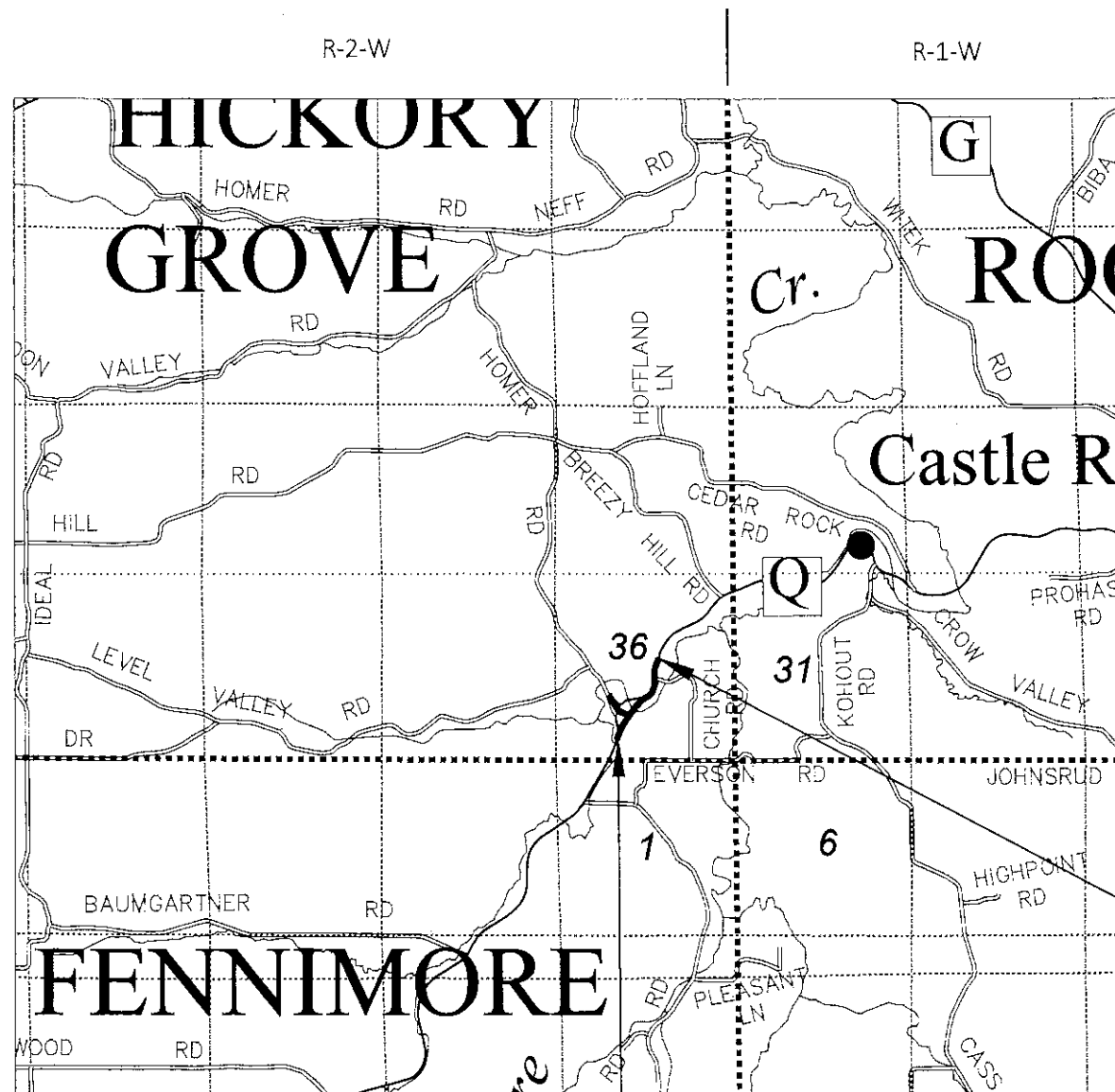
RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

DIMENSIONS FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLES) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPANCIAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

INFORMATION FOR THE BASIS OF EXISTING HIGHWAY RIGHT-OF-WAY POINTS OF REFERENCE ARE LISTED ON THE DETAIL PAGES.



812.40 FEET WEST OF AND
801.87 FEET NORTH OF THE
SOUTH QUARTER CORNER OF
SECTION 36, T-7-N, R-2-W,
TOWN OF HICKORY GROVE,
GRANT COUNTY, WI

BEGIN RELOCATION ORDER

STA. 100+00.00
Y = 591,419.820
X = 859,169.183

LAYOUT
SCALE 0 1 MI
TOTAL NET LENGTH OF CENTERLINE = 0.778 MI

R/W PROJECT NUMBER 5667-00-05	SHEET NUMBER	TOTAL SHEETS
CONSTRUCTION PROJECT NUMBER 5667-00-75	1	3

PLAT OF RIGHT OF WAY REQUIRED FOR
C OF FENNIMORE - T CASTLE ROCK
(USH 61 TO CTH G)

CTH Q

GRANT COUNTY

ORIGINAL PLAT PREPARED BY

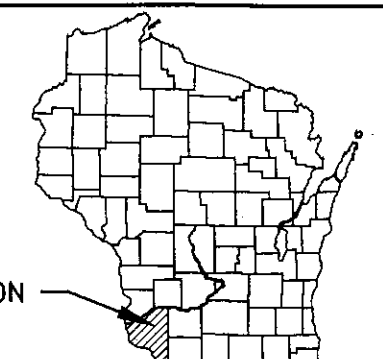


1702 Pankratz Street, Madison, WI 53704
608-242-7779 1-800-446-0679 Fax: 608-242-5664



05/10/2021
(DATE)

Bradley L. Tisdale
(Professional Land Surveyor)



PROJECT LOCATION

END RELOCATION ORDER

STA. 132+00.00
Y = 594,066.528
X = 860,558.615

577.03 FEET EAST OF AND
3448.58 FEET NORTH OF
THE SOUTH QUARTER CORNER
OF SECTION 36, T-7-N,
R-2-W, TOWN OF HICKORY
GROVE, GRANT COUNTY, WI

CAUTION:

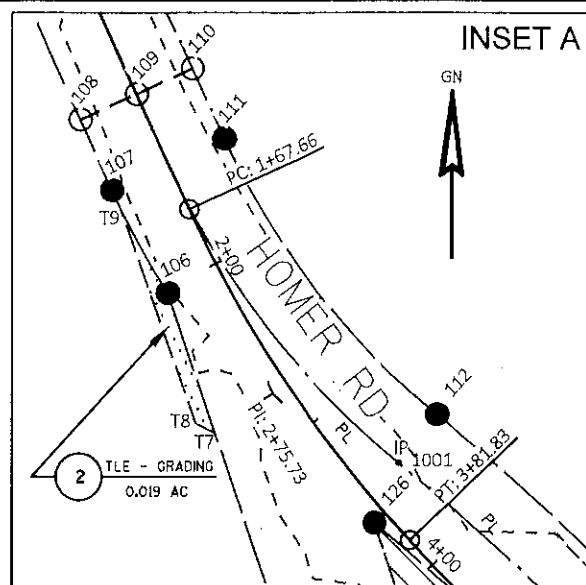
THIS PLAT IS FOR ILLUSTRATIVE PURPOSES ONLY. DEEDS
MUST BE CHECKED TO DETERMINE PROPERTY BOUNDARIES.

REVISION DATE
05/20/2021 - N.C.

GRANT COUNTY

APPROVED FOR THE COUNTY

DATE: 5-27-21 *Jon P. Knapp*
(Signature)



TOWN

HOMER RD (HR)

PI = 2+75.73
Y = 592,527.200
X = 858,880.855
Δ = 18°52'44" RT
D = 8°48'53"
T = 108.07'
L = 214.17'
R = 650.00'
PC = 1+67.66
PT = 3+81.83

EP = 9+10.00
Y = 592,064.731
X = 859,317.789

TLE POINT	STATION	OFFSET
T1	105+44.84 CQ	153.19'
T2	105+73.25 CQ	168.05'
T3	106+99.81 CQ	164.53'
T4	107+53.50 CQ	156.61'
T5	107+79.16 CQ	143.84'
T6	108+50.65 CQ	70.00'
T7	2+75.00 HR	46.33'
T8	2+65.74 HR	52.00'
T9	1+51.77 HR	33.12'

LINE	BEARING	DISTANCE
100-101	N86°54'45"W	48.57'
107-108	N24°36'11"W	41.27'
108-109	N65°30'18"E	33.33'
109-110	N65°30'18"E	32.67'
110-111	S24°36'11"E	41.15'
117-118	S00°13'37"E	61.62'
118-119	S00°13'37"E	81.00'
123-124	S03°05'15"W	100.39'
125-100	N86°54'45"W	51.43'
131-127	N18°45'50"W	80.65'

URBAN REVOCABLE LIVING TRUST
PID: 024-00800-0020

LEVEL VALLEY FARMS LLC
PID: 024-00795-0000

AUSTIN
PLAT OF SURVEY
03-23-2000

PID: 024-00800-0020

PID: 024-00795-0000

PID: 024-00795-0000

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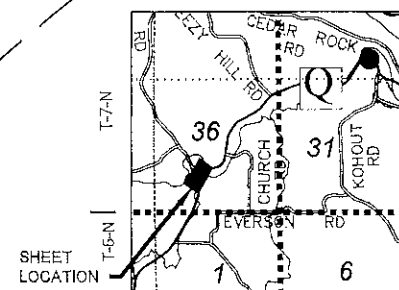
PID: 024-00795-0000

PID: 024-00795-0000

PID: 024-00795-0000

PID: 024-00795-0000

IP POINT	STATION	OFFSET	TYPE
1000	6+20.29 HR	162.06'	MAG NAIL
1001	3+46.08 HR	-23.00'	MAG NAIL
1002	5+34.57 HR	-37.09'	MAG NAIL
1003	107+28.28	-193.20'	MAG NAIL
1004	109+33.15	-193.34'	MAG NAIL



NOTES:
EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: CTH Q AND HOMER ROAD - PREVIOUS PROJECT 502102, LARRY AUSTIN 03/23/2000 PLAT OF SURVEY, MICHAEL ROCHON 05/17/2011 PLAT OF SURVEY, AARON AUSTIN 08/14/2018 PLAT OF SURVEY.

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCONSIN), GRANT COUNTY, NAD83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICALLY 3/4"x24" REBAR) AND ARE PLACED AT THE COMPLETION OF THE CONSTRUCTION PROJECT.

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED			TLE ACRES
			NEW	EXISTING	TOTAL	
1	TODD R. & DEANNA S. GUNDERSON	FEE/TLE	1.134		1.134	0.249
2	LEVEL VALLEY FARMS, LLC	FEE/TLE	3.936		3.936	0.379

CURVE	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD LENGTH
101-102	127.80'	471.70'	15°31'25"	N4°55'55"W	127.41'
103-104	230.21'	595.70'	22°08'33"	N1°37'22"W	228.78'
104-105	188.64'	588.00'	18°22'54"	N2°57'17"W	187.83'
106-107	62.67'	473.00'	7°35'28"	N28°23'52"W	62.62'
111-112	188.44'	407.00'	26°31'38"	S37°51'57"E	186.76'
112-113	192.44'	1473.00'	7°29'07"	S47°23'12"E	192.30'
114-115	427.45'	595.70'	41°06'53"	N61°58'25"E	418.34'
116-117	130.54'	471.70'	15°51'22"	N74°36'05"E	130.12'
120-121	378.14'	580.00'	4°34'23"	S40°50'47"W	371.48'
124-125	38.36'	571.70'	3°50'42"	S0°57'09"W	38.36'
129-128	54.00'	595.70'	5°11'37"	S32°24'16"W	53.98'
126-130	173.58'	1407.00'	7°04'06"	S47°10'41"E	173.47'
132-131	111.22'	522.00'	12°12'27"	N24°52'03"W	111.01'
128-132	122.61'	595.70'	11°47'34"	S23°54'40"W	122.39'
124-133	116.98'	571.70'	11°43'26"	N6°49'55"W	116.78'
134-135	823.84'	495.70'	95°13'26"	N34°55'05"E	732.24'
136-137	116.18'	571.70'	11°38'37"	N76°42'28"E	115.98'

RW POINT	STATION	OFFSET
100	100+00.00 CQ	0.00'
101	100+00.00 CQ	-48.57'
102	101+26.17 CQ	-66.35'
103	103+37.32 CQ	-131.56'
104	105+12.21 CQ	-199.25'
105	5+91.81 HR	185.31'
106	2+02.18 HR	29.95'
107	1+41.27 HR	33.26'
108	1+00.00 HR	33.33'
109	1+00.00 HR	0.00'
110	1+00.00 HR	-32.67'
111	1+41.15 HR	-32.74'
112	3+39.27 HR	-55.33'
113	5+34.75 HR	-70.06'
114	107+55.09 CQ	-248.06'

RW POINT	STATION	OFFSET
115	111+10.85 CQ	-199.66'
116	113+76.00 CQ	-87.07'
117	115+02.00 CQ	-53.21'
118	114+70.60 CQ	0.00'
119	114+29.78 CQ	70.00'
120	109+25.03 CQ	70.00'
121	105+01.26 CQ	70.00'
122	104+01.77 CQ	139.49'
123	101+38.72 CQ	50.00'
124	100+38.33 CQ	50.00'
125	100+00.00 CQ	51.43'
126	3+62.21 HR	7.75'
127	5+45.97 HR	91.72'
128	106+67.63 CQ	-237.37'
129	107+06.82 CQ	-243.16'
130	5+35.07 HR	-4.06'
131	6+19.29 HR	125.31'
132	105+78.04 CQ	-218.23'
133	101+53.36 CQ	29.88'
134	103+70.25 CQ	-38.72'
135	110+71.76 CQ	-107.61'
136	113+36.92 CQ	4.97'
137	114+47.72 CQ	39.24'

REVISION DATE 05/20/2021 - N.C.	DATE 05/10/2021	SCALE, FEET 0 50 100	HWY: CTH Q	STATE R/W PROJECT NUMBER 5667-00-05	PLAT SHEET 4.02
	GRID FACTOR		COUNTY: GRANT	CONSTRUCTION PROJECT NUMBER 5667-00-75	PS&E SHEET E

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED			TLE SQ FT
			NEW	EXISTING	TOTAL	
3	MICHAEL GRAVES, TRUSTEE OF THE MICHAEL GRAVES TRUST DATED APRIL 23, 2007; AND CHERYL GRAVES, TRUSTEE OF THE CHERYL GRAVES TRUST DATED APRIL 23, 2007 - TO EACH AN UNDIVIDED ONE-HALF INTEREST AS TENANTS-IN-COMMON	FEE	0.768	--	0.768	--

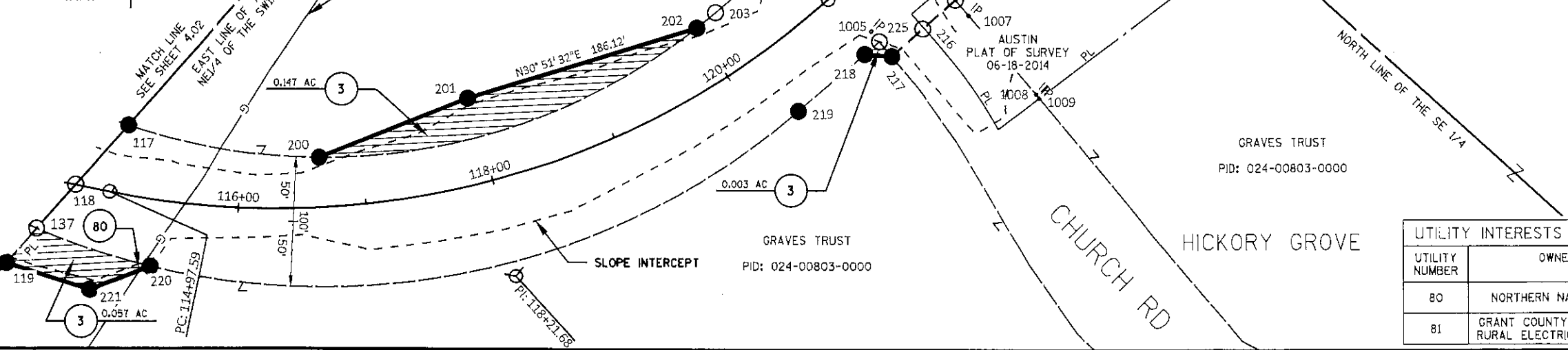
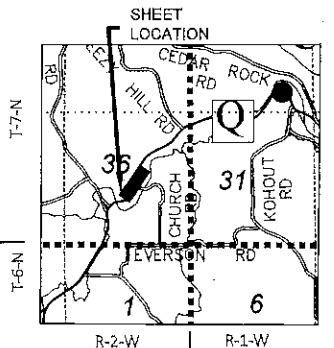
OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE COUNTY.

CURVE	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD DISTANCE
117-200	152.80'	471.70'	18°33'37"	N57°23'37"E	152.13
202-203	18.78	471.70'	2°16'05"	N8°37'37"E	18.78
211-212	85.58	1203.83	4°08'48"	S23°57'40"W	85.56'
212-213	400.00'	1587.30'	14°26'19"	S14°42'19"W	398.94'
219-220	539.19'	571.70'	54°02'14"	S34°30'17"W	519.42'
202-200	315.69'	471.70'	38°20'47"	S28°56'27"W	309.83'
209-224	100.31'	1313.83'	4°22'29"	S24°06'43"W	100.29'
223-222	425.20'	1487.30'	14°26'19"	S14°42'19"W	424.08'

R/W POINT	STATION	OFFSET
200	116+65.38	CO -38.52'
201	117+97.09	CO -66.38'
202	120+00.00	CO -44.47'
203	120+20.09	CO -46.34'
204	122+50.00	CO -47.00'
205	122+62.60	CO -54.89'
206	124+35.68	CO -59.04'
207	127+37.68	CO -81.35'
208	129+51.60	CO -81.80'
209	131+17.58	CO -52.09'
210	131+17.58	CO 0.00'
211	131+17.58	CO 58.11'
212	130+27.15	CO 63.00'
213	126+06.43	CO 59.01'
214	121+73.12	CO 51.72'
215	121+72.84	CO 65.61'
216	121+39.12	CO 65.61'
217	121+06.71	CO 65.61'
218	120+92.54	CO 50.39'
219	120+29.73	CO 53.19'
220	115+37.29	CO 51.40'
221	114+97.68	CO 77.29'
222	126+08.11	CO -40.98'
223	130+22.16	CO -36.88'
224	130+21.71	CO -46.87'
225	121+07.05	CO 50.61'

LINE	DIRECTION	LENGTH
200-201	N26°03'38"E	123.98'
204-205	N25°32'48"W	14.87'
224-223	S68°04'32"E	10.00'
209-210	S60°24'20"E	52.09'
210-211	S60°24'20"E	58.11'
214-215	S82°18'23"E	13.89'
215-216	S06°31'21"W	33.72'
216-217	S06°31'21"W	32.41'
217-218	S52°38'54"W	21.15'
218-219	S07°29'10"W	67.85'
220-221	S27°02'12"W	50.64'
221-119	S65°39'05"W	68.30'
218-225	N7°29'10"E	15.00'
225-217	S82°11'21"E	15.00'

IP POINT	STATION	OFFSET	TYPE
1005	121+07.54	CO 40.40'	3/4" IR
1006	121+73.52	CO 40.76'	3/4" IR
1007	121+72.44	CO 81.23'	3/4" IR
1008	121+71.20	CO 161.62'	3/4" IR
1009	121+70.89	CO 165.47'	3/4" IR
1010	123+32.21	CO 178.21'	3/4" IR
1011	126+00.82	CO 199.14'	3/4" IR
1012	126+04.38	CO 58.76'	3/4" IR



END RELOCATION ORDER STA. 132+00.00
Y = 594,066.528
X = 860,558.615

CTH Q (CO)
 PI = 118+21.68
 Y = 592,684.138
 X = 860,276.680
 Δ = 53°00'05" LT
 D = 8°48'53"
 T = 324.09'
 L = 601.28'
 R = 650.00'
 PC = 114+97.59
 PT = 120+98.88

PI = 129+49.25
 Y = 593,850.999
 X = 860,410.090
 Δ = 28°01'58" RT
 D = 5°12'31"
 T = 274.59'
 L = 538.19'
 R = 1100.00'
 PC = 126+74.66
 PT = 132+12.85

NOTES:
 EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
 CTH Q - PREVIOUS PROJECT 50210 (2), PREVIOUS PROJECT 50210 (4)
 CHURCH ROAD - PREVIOUS PROJECT 5852-00-01

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), GRANT COUNTY, NAD83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

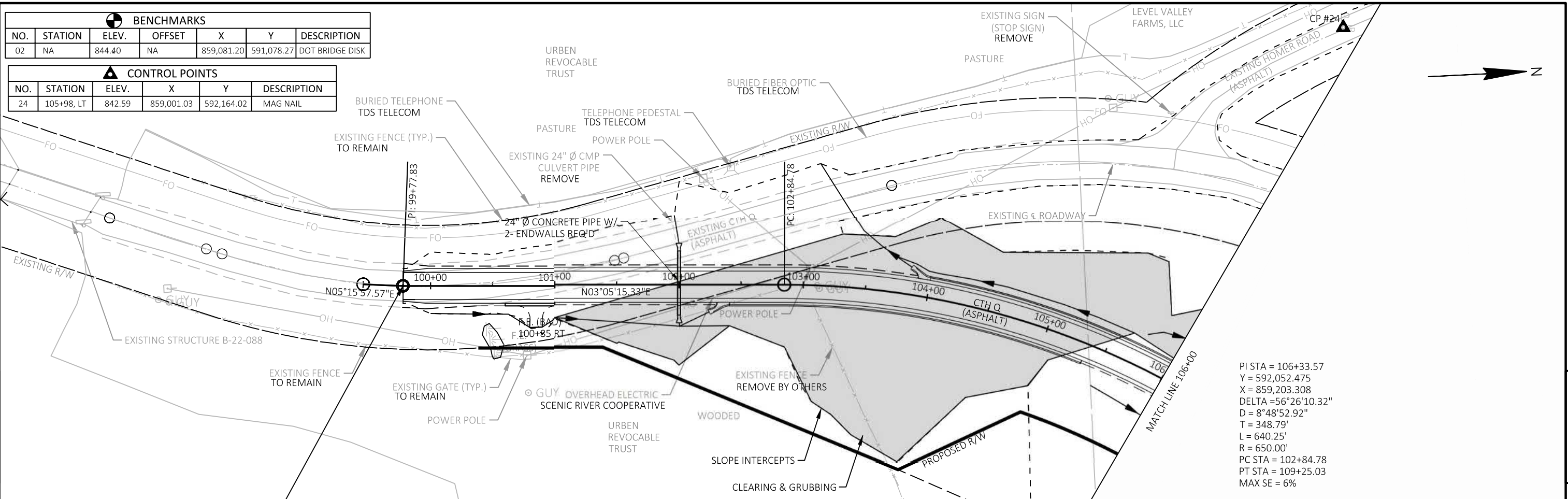
RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICALLY 3/4"x24" REBAR) AND ARE PLACED AT THE COMPLETION OF THE CONSTRUCTION PROJECT.

UTILITY INTERESTS REQUIRED				
UTILITY NUMBER	OWNER(S)	PARCEL AFFECTED	INTEREST REQUIRED	EASEMENT AFFECTING
80	NORTHERN NATURAL GAS	3	RELEASE OF RIGHTS	V.381, P.578, DOC. NO. 366700
81	GRANT COUNTY COOPERATIVE RURAL ELECTRIC ASSOCIATION	3	RELEASE OF RIGHTS	V.3, P.200, DOC. NO. 130517 (BLANKET EASEMENT)

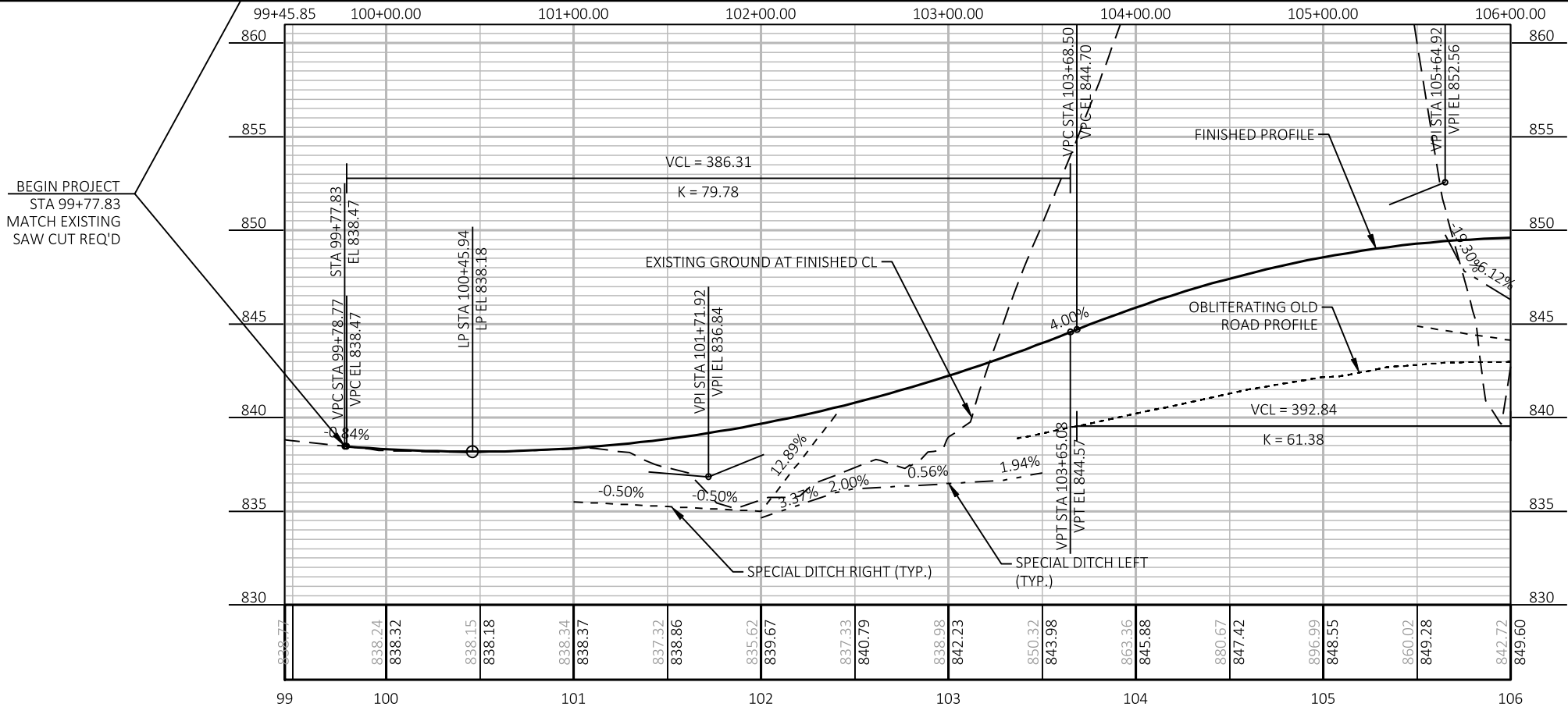
REVISION DATE 05/20/2021 - CORRECT TYPOGRAPHICAL ERROR OF THE ACREAGE IN THE SCHEDULE OF LANDS AND INTERESTS.	DATE 05/10/2021	SCALE, FEET 0 50 100	HWY: CTH Q COUNTY: GRANT	STATE R/W PROJECT NUMBER 5667-00-05	PLAT SHEET 4.03
GRID FACTOR			CONSTRUCTION PROJECT NUMBER 5667-00-75	PS&E SHEET	E

BENCHMARKS						
NO.	STATION	ELEV.	OFFSET	X	Y	DESCRIPTION
02	NA	844.40	NA	859,081.20	591,078.27	DOT BRIDGE DISK

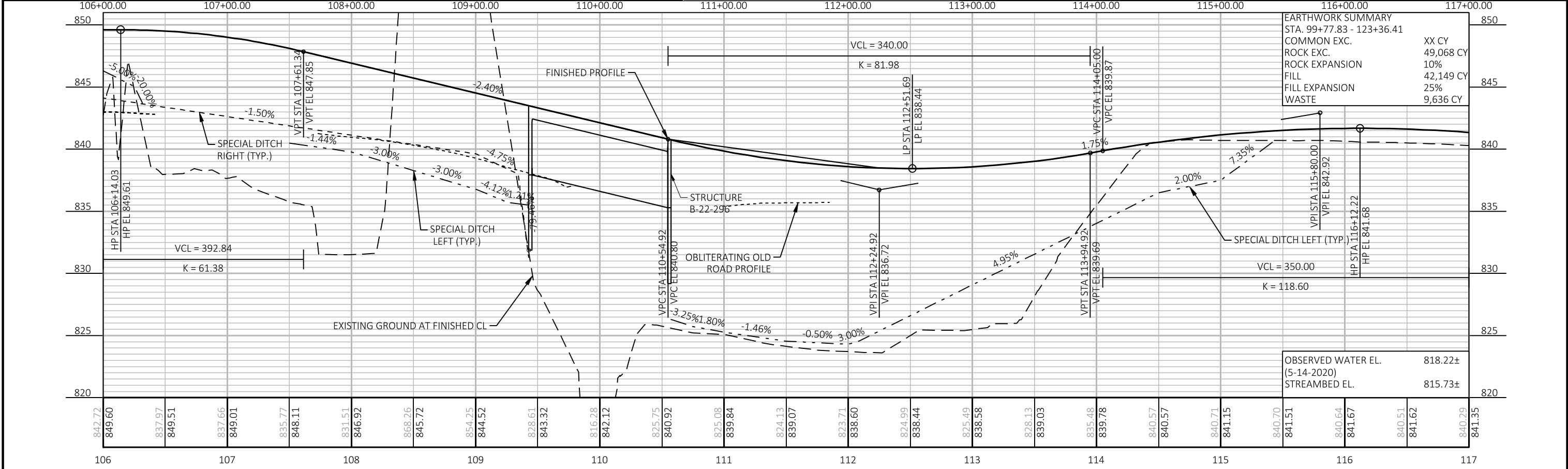
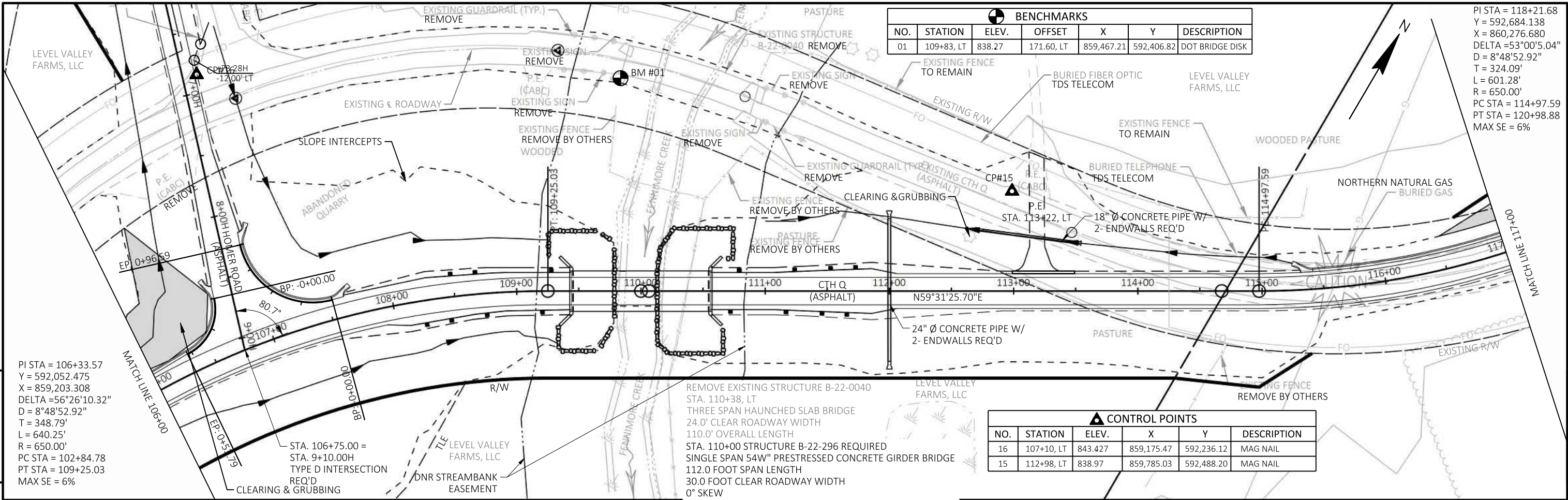
CONTROL POINTS					
NO.	STATION	ELEV.	X	Y	DESCRIPTION
24	105+98, LT	842.59	859,001.03	592,164.02	MAG NAIL



PI STA = 106+33.57
Y = 592,052.475
X = 859,203.308
DELTA = 56°26'10.32"
D = 8°48'52.92"
T = 348.79'
L = 640.25'
R = 650.00'
PC STA = 102+84.78
PT STA = 109+25.03
MAX SE = 6%



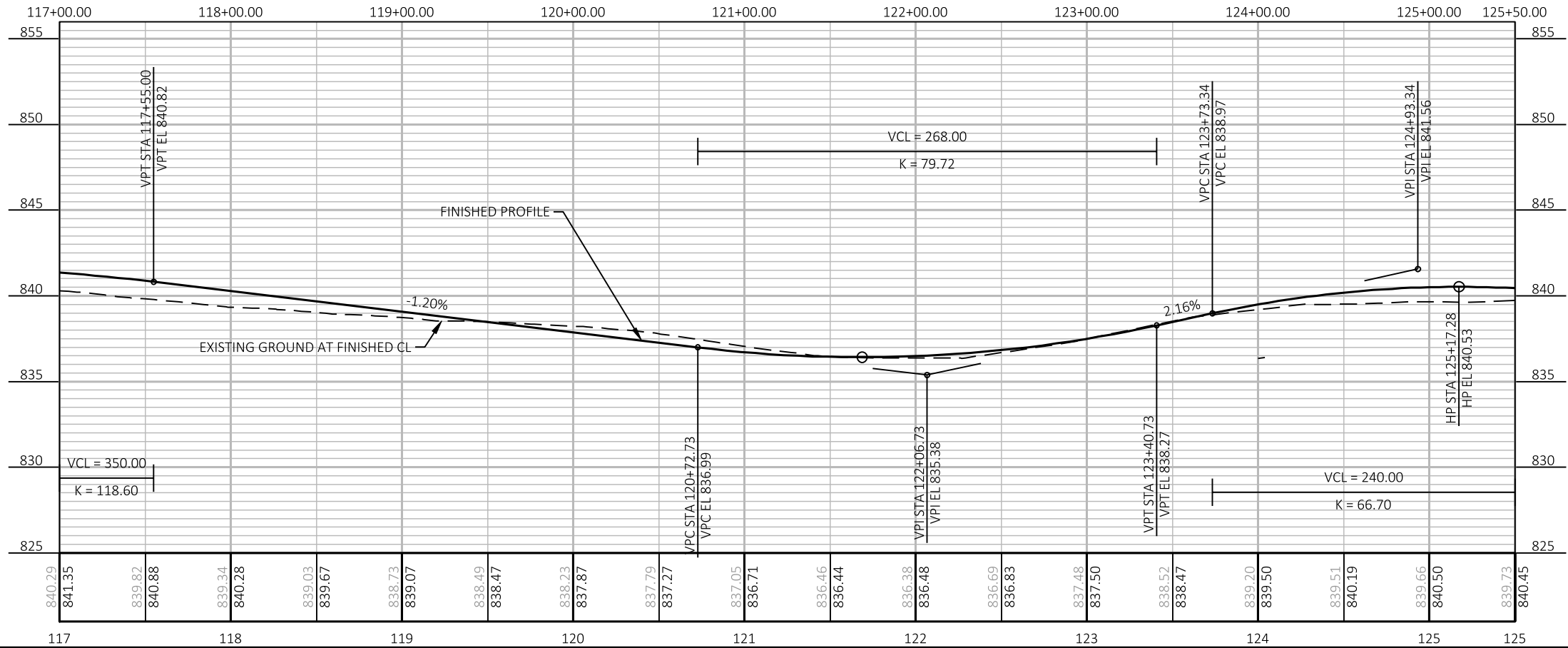
PROJECT NO: 5667-00-75	HWY: CTH Q	COUNTY: GRANT	PLAN AND PROFILE: CTH Q	SHEET	E
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PROJECT NO:	5667-00-75	HWY:	CTH Q	COUNTY:	GRANT	PLAN AND PROFILE:	CTH Q	SHEET	5
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PI STA = 118+21.68
Y = 592,684.138
X = 860,276.680
DELTA = 53°00'5.04"
D = 8°48'52.92"
T = 324.09'
L = 601.28'
R = 650.00'
PC STA = 114+97.59
PT STA = 120+98.88
MAX SE = 6%

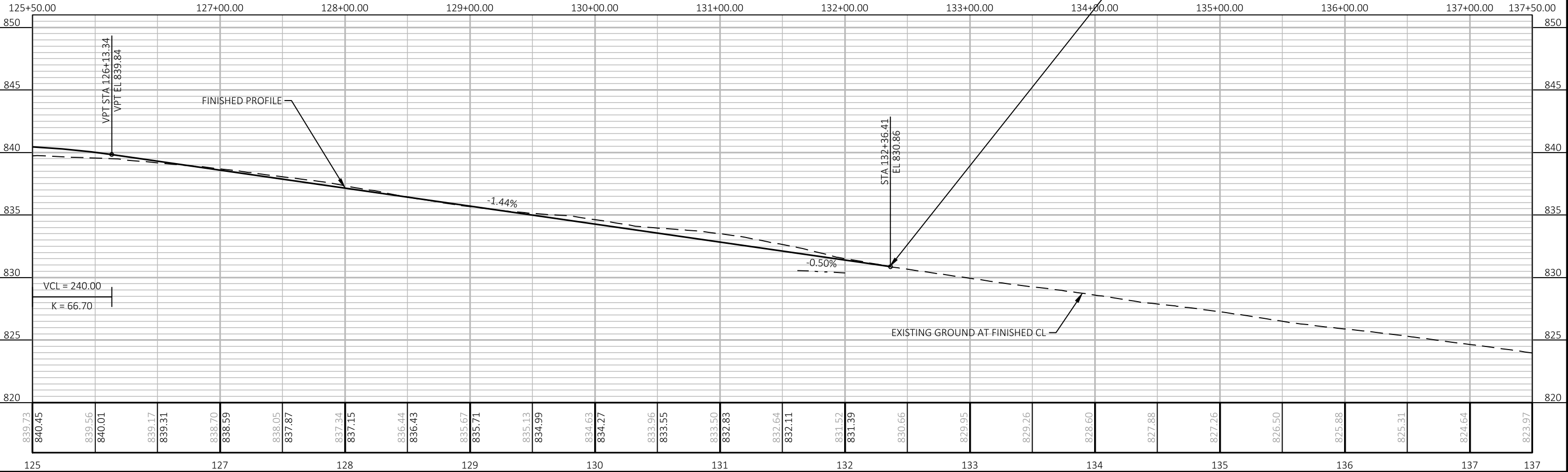
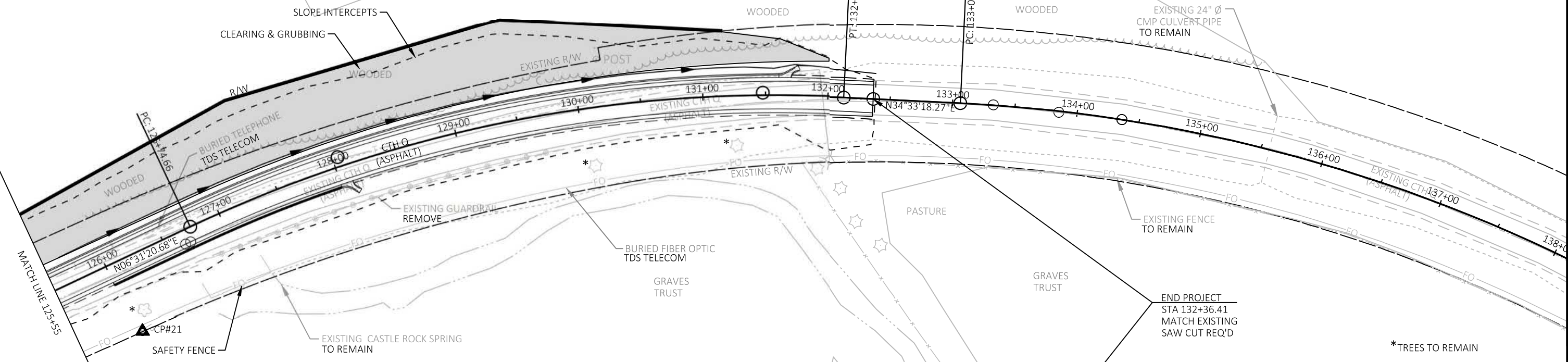
CONTROL POINTS					
NO.	STATION	ELEV.	X	Y	DESCRIPTION
17	121+78, RT	835.88	860,337.26	593,083.23	MAG NAIL
18	121+71, RT	822.18	860,486.14	593,059.25	IRON PIPE 3/4" REBAR
19	123+32, RT	819.78	860,517.06	593,217.71	IRON PIPE 3/4" REBAR



CONTROL POINTS					
NO.	STATION	ELEV.	X	Y	DESCRIPTION
21	126+04.15	834.06	860,429.30	593,501.68	IRON PIPE 3/4" REBAR

PI STA = 129+49.25
Y = 593,850.998
X = 860,410.089
DELTA = 28°01'57.72"
D = 5°12'31.32"
T = 274.59'
L = 538.19'
R = 1,100'
PC STA = 126+74.66
PT STA = 132+12.85
MAX SE = 6%

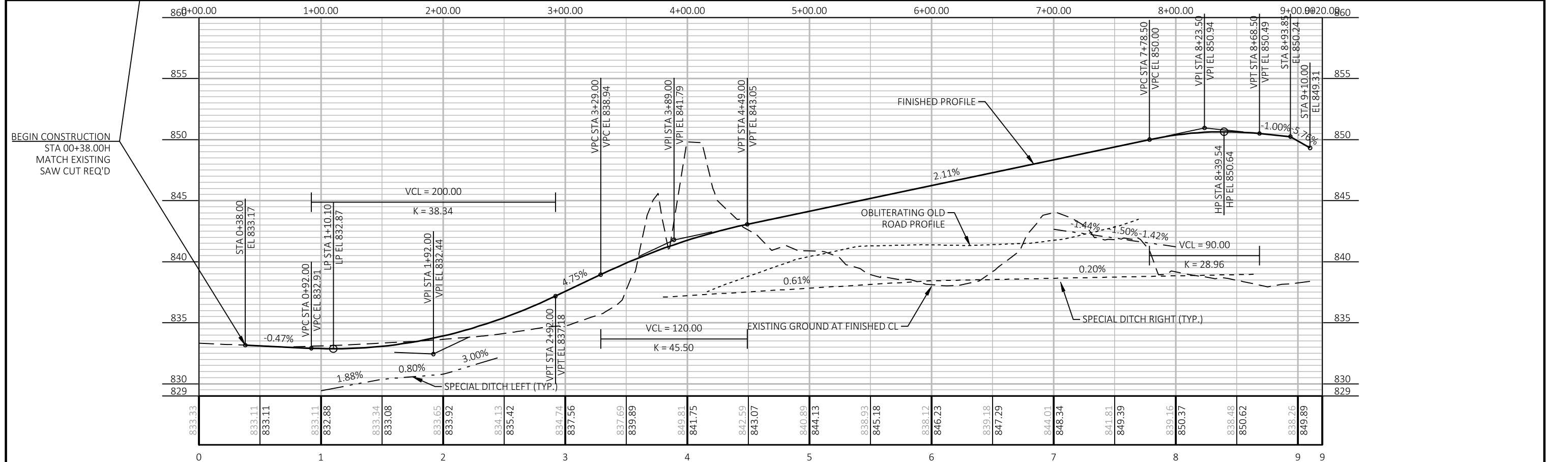
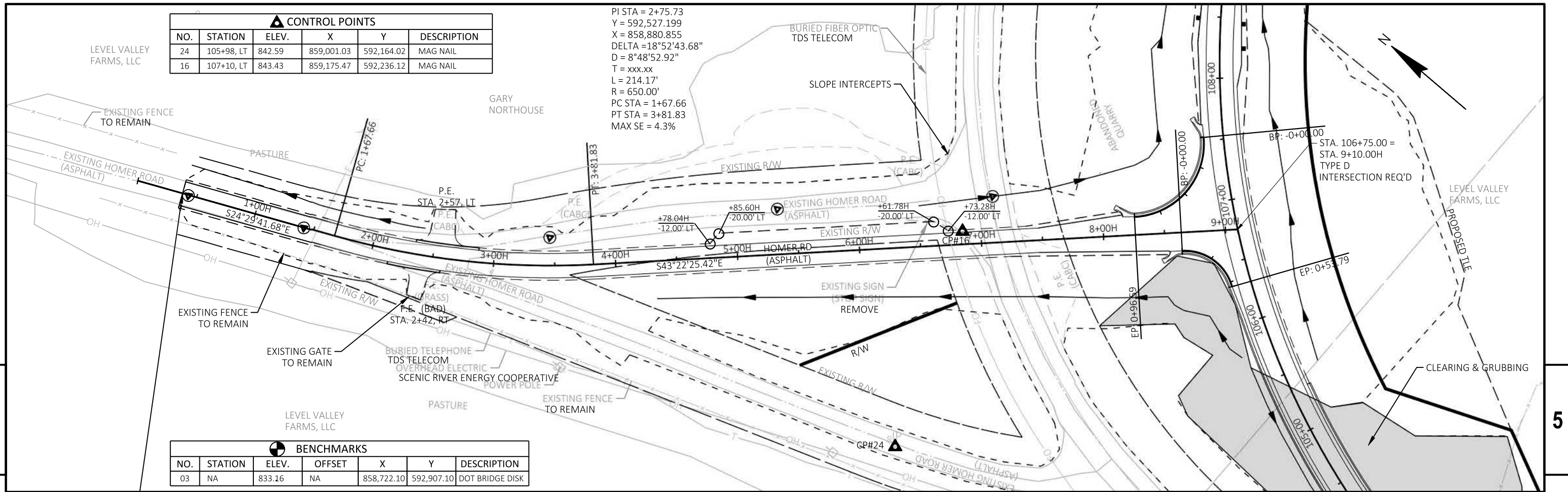
PI STA = 136+42.03
Y = 594,430.616
X = 860,809.270
DELTA = 30°04'48.72"
D = 4°35'01.32"
T = 335.87'
L = 656.25'
R = 1,250'
PC STA = 133+12.85
PT STA = 139+62.40
MAX SE = 6%

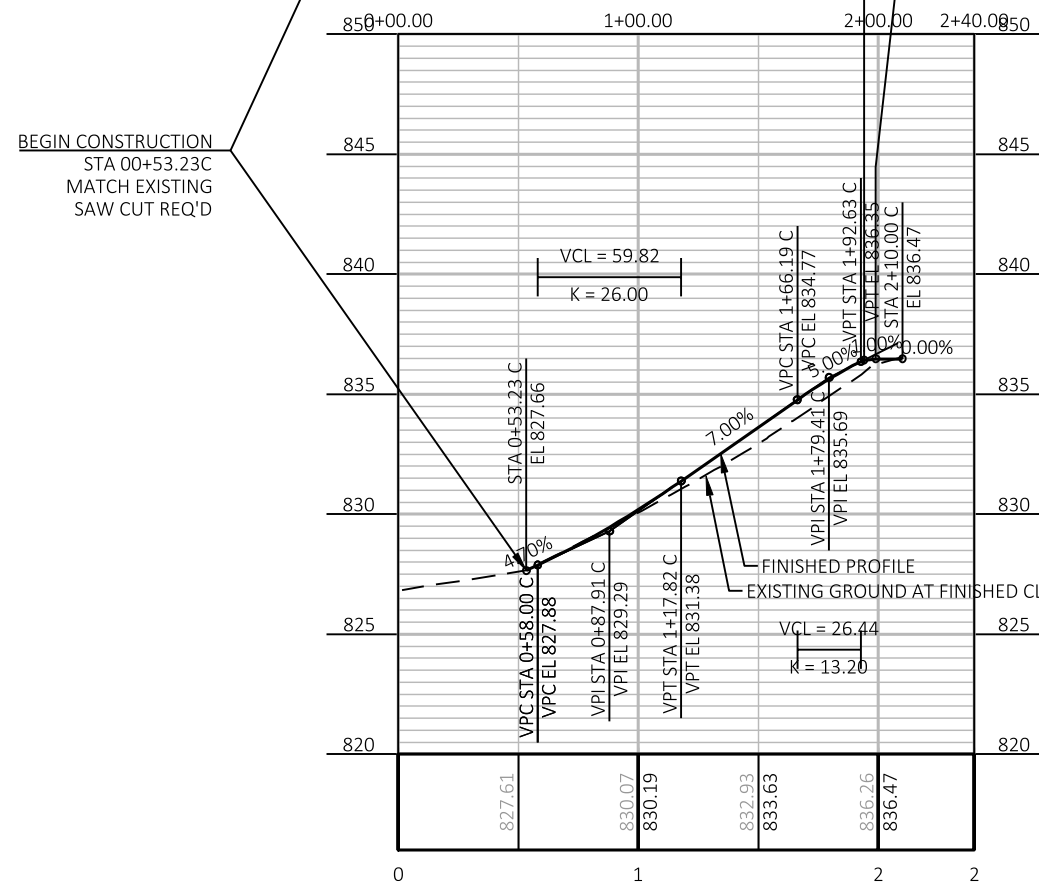
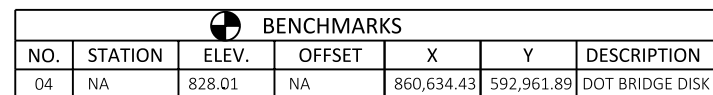


PROJECT NO: 5667-00-75	HWY: CTH Q	COUNTY: GRANT	PLAN AND PROFILE: CTH Q	SHEET	E
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 CONTROL POINTS					
NO.	STATION	ELEV.	X	Y	DESCRIPTION
24	105+98, LT	842.59	859,001.03	592,164.02	MAG NAIL
16	107+10, LT	843.43	859,175.47	592,236.12	MAG NAIL

PI STA = 2+75.73
Y = 592,527.199
X = 858,880.855
DELTA = 18°52'43.68"
D = 8°48'52.92"
T = xxx.xx
L = 214.17'
R = 650.00'
PC STA = 1+67.66
PT STA = 3+81.83
MAX SE = 4.3%





Notes:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
5 - EXPANDED EBS	WILL BE BACKFILLED WITH BREAKER RUN
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: $[(\text{CUT} - \text{SALVAGED PAVT} - \text{EXPANDED MARSH EXC} - \text{EXPANDED EBS}) - ((\text{FILL} - \text{REDUCED MARSH IN FILL} - \text{REDUCED EBS IN FILL} - \text{EXPANDED ROCK}) * \text{FILL FACTOR})]$

3

3

Stage 1 - CTH Q																		
STATION	REAL STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)						
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	ROCK EXC	EBS	CUT	FILL	ROCK EXC	EBS	CUT	EXPANDED FILL	EXPANDED ROCK	EXPANDED EBS BACKFILL	REDUCED EBS IN FILL		MASS ORDNATE
								NOTE 1	NOTE 3			NOTE 1	1.00	1.25	1.10	1.30	0.80	NOTE 8
												NOTE 1				NOTE 5	NOTE 7	
101+95.918	10195.92	0.00	78.07	0.00	80.33	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0
102+00	10200.00	4.08	94.41	0.00	82.57	0.00	0.00	13	12	0	0	13	15	0	0	0	0	-2
102+40.45	10240.45	40.45	0.00	0.00	96.30	15.44	0.00	71	134	12	0	84	166	13	0	0	0	-82
102+50	10250.00	9.55	0.00	0.00	99.10	29.90	0.00	0	35	8	0	84	199	22	0	0	0	-115
102+84.585	10284.58	34.58	0.00	0.00	116.78	189.95	0.00	0	138	141	0	84	177	177	0	0	0	-93
103+00	10300.00	15.42	0.00	0.00	111.70	330.37	0.00	0	65	149	0	84	54	341	0	0	0	30
103+29.112	10329.11	29.11	0.00	0.00	136.66	791.27	0.00	0	134	605	0	84	-611	1,007	0	0	0	695
103+50	10350.00	20.89	0.00	0.00	67.77	1315.83	0.00	0	79	815	0	84	-1,633	1,903	0	0	0	1,717
104+00	10400.00	50.00	0.00	0.00	3.92	3118.28	0.00	0	66	4,106	0	84	-7,196	6,420	0	0	0	7,280
104+50	10450.00	50.00	0.00	0.00	0.00	3515.15	0.00	0	4	6,142	0	84	-15,636	13,176	0	0	0	15,720
105+00	10500.00	50.00	0.00	0.00	0.00	3776.30	0.00	0	0	6,751	0	84	-24,919	20,602	0	0	0	25,003
105+50	10550.00	50.00	0.00	0.00	2164.52	1557.72	0.00	0	2,004	4,939	0	84	-29,205	26,035	0	0	0	29,289
105+75	10575.00	25.00	0.00	0.00	1843.12	516.05	0.00	0	1,855	960	0	84	-28,206	27,091	0	0	0	28,290
106+00	10600.00	25.00	0.00	0.00	2006.72	0.00	0.00	0	1,782	239	0	84	-26,307	27,354	0	0	0	26,391
106+25	10625.00	25.00	0.00	0.00	1519.81	37.76	0.00	0	1,633	17	0	84	-24,289	27,372	0	0	0	24,373
106+50	10650.00	25.00	0.00	0.00	2546.55	0.00	0.00	0	1,883	17	0	84	-21,959	27,391	0	0	0	22,043
106+75	10675.00	25.00	0.00	0.00	3124.56	0.00	0.00	0	2,626	0	0	84	-18,676	27,391	0	0	0	18,760
107+00	10700.00	25.00	0.00	0.00	2870.37	0.00	0.00	0	2,775	0	0	84	-15,208	27,391	0	0	0	15,292
107+50	10750.00	50.00	0.00	0.00	1628.49	16.30	0.00	0	4,166	15	0	84	-10,021	27,408	0	0	0	10,105
108+00	10800.00	50.00	0.00	0.00	2452.16	0.00	0.00	0	3,778	15	0	84	-5,319	27,424	0	0	0	5,403
108+50	10850.00	50.00	0.00	0.00	175.83	2155.53	0.00	0	2,433	1,996	0	84	-5,022	29,620	0	0	0	5,106
108+80.703	10880.70	30.70	0.00	0.00	0.00	1870.95	0.00	2,289	100	2,289	0	2,373	-8,045	32,138	0	0	0	10,418
109+00	10900.00	19.30	0.00	0.00	4.09	1188.21	0.00	1,093	1	1,093	0	3,466	-9,546	33,340	0	0	0	13,012
109+26.2	10926.20	26.20	0.00	0.00	10.65	328.63	0.00	736	7	736	0	4,202	-10,549	34,150	0	0	0	14,751
109+34	10934.00	7.80	0.00	0.00	251.33	141.85	0.00	68	38	68	0	4,270	-10,595	34,224	0	0	0	14,865
109+50	10950.00	16.00	0.00	0.00	0.00	0.00	0.00	42	74	42	0	4,312	-10,561	34,271	0	0	0	14,873
BRIDGE																		
110+57.18	11057.18	0.00	0.00	0.00	1099.26	0.00	389.67	0	0	0	0	4,312	-10,561	34,271	0	0	0	14,873
110+75.032	11075.03	17.85	0.00	0.00	1082.28	0.00	389.11	0	721	0	257	4,312	-9,916	34,271	334	206	0	14,228
111+00	11100.00	24.97	0.00	0.00	1048.20	0.00	385.45	0	985	0	358	4,312	-9,043	34,271	800	492	0	13,355
111+50	11150.00	50.00	0.00	0.00	1175.54	0.00	394.22	0	2,059	0	722	4,312	-7,191	34,271	1,738	1,070	0	11,503
112+00	11200.00	50.00	0.00	0.00	1213.69	0.00	405.23	0	2,212	0	740	4,312	-5,166	34,271	2,700	1,662	0	9,478
112+09.032	11209.03	9.03	0.00	0.00	1188.01	0.00	397.88	0	402	0	134	4,312	-4,798	34,271	2,874	1,769	0	9,110
112+50	11250.00	40.97	0.00	0.00	934.28	0.00	0.00	0	1,610	0	302	4,312	-3,087	34,271	3,267	2,010	0	7,399
113+00	11300.00	50.00	0.00	0.00	741.81	0.00	0.00	0	1,552	0	0	4,312	-1,147	34,271	3,267	2,010	0	5,459
113+24.737	11324.74	24.74	0.00	0.00	663.17	0.00	0.00	0	644	0	0	4,312	-342	34,271	3,267	2,010	0	4,654
113+50	11350.00	25.26	0.00	0.00	558.10	0.00	0.00	0	571	0	0	4,312	371	34,271	3,267	2,010	0	3,941
113+64.59	11364.59	14.59	0.00	0.00	498.08	0.00	0.00	0	285	0	0	4,312	728	34,271	3,267	2,010	0	3,584
CTH Q NORTH END (123+00 - 132+12)																		
123+00	12300.00	37.76	0.00	0.00	0.00	92.88	0.00	76	0	76	0	4,388	623	34,354	3,267	2,010	0	3,765
123+50	12350.00	50.00	0.00	0.00	0.00	66.39	0.00	147	0	147	0	4,535	421	34,516	3,267	2,010	0	4,114
124+00	12400.00	50.00	0.00	0.00	0.00	77.50	0.00	0	0	133	0	4,535	238	34,662	3,267	2,010	0	4,297
124+50	12450.00	50.00	0.00	0.00	0.00	130.69	0.00	0	0	193	0	4,535	-27	34,874	3,267	2,010	0	4,562
125+00	12500.00	50.00	0.00	0.00	0.00	176.35	0.00	0	0	284	0	4,535	-418	35,187	3,267	2,010	0	4,953
125+50	12550.00	50.00	0.00	0.00	0.00	202.70	0.00	0	0	351	0	4,535	-900	35,573	3,267	2,010	0	5,435
126+00	12600.00	50.00	0.00	0.00	0.00	183.18	0.00	0	0	357	0	4,535	-1,391	35,966	3,267	2,010	0	5,926
126+50	12650.00	50.00	0.00	0.00	0.00	233.95	0.00	0	0	386	0	4,535	-1,922	36,390	3,267	2,010	0	6,457
127+00	12700.00	50.00	0.00	0.00	0.00	354.02	0.00	0	0	544	0	4,535	-2,670	36,989	3,267	2,010	0	7,205
127+50	12750.00	50.00	0.00	0.00	0.00	353.13	0.00	0	0	655	0	4,535	-3,571	37,709	3,267	2,010	0	8,106
128+00	12800.00	50.00	0.00	0.00	0.00	405.98	0.00	0	0	703	0	4,535	-4,537	38,482	3,267	2,010	0	9,072
128+50	12850.00	50.00	0.00	0.00	0.00	345.42	0.00	0	0	696	0	4,535	-5,494	39,248	3,267	2,010	0	10,029
129+00	12900.00	50.00	0.00	0.00	0.00	266.83	0.00	0	0	567	0	4,535	-6,274	39,872	3,267	2,010	0	10,809
129+50	12950.00	50.00	0.00	0.00	0.00	326.98	0.00	0	0	550	0	4,535	-7,030	40,477	3,267	2,010	0	11,565
130+00	13000.00	50.00	0.00	0.00	0.00	271.83	0.00	0	0	554	0	4,535	-7,792	41,086	3,267	2,010	0	12,327
130+50	13050.00	50.00	0.00	0.00	0.00	106.12	0.00	0	0	350	0	4,535	-8,273	41,471	3,267	2,010	0	12,808
131+00	13100.00	50.00	0.00	0.00	0.00	64.05	0.00	0	0	158	0	4,535	-8,490	41,645	3,267	2,010	0	13,025
131+50	13150.00	50.00	0.00	0.00	0.00	34.87	0.00	0	0	92	0	4,535	-8,617	41,746	3,267	2,010	0	13,152
132+00	13200.00	50.00	6.95	0.00	0.00	0.00	0.00	6	0	32	0	4,541	-8,661	41,781	3,267	2,010	0	13,202
132+12.845	13212.85	12.85	7.50	0.00	0.00	0.00	0.00	3	0	0	0	4,544	-8,661	41,781	3,267	2,010	0	13,205
								4,544	36,863	37,983	2,513							
PROJECT NO: 5667-00-75				HWY: CTH Q				COUNTY: GRANT				EARTHWORK						SHEET:
																		E

Stage 1 - HOMER RD

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)								
			CUT	FILL	ROCK	EXC	EBS	CUT	FILL	ROCK	EXC	EBS	CUT	EXPANDED FILL	EXPANDED ROCK	EXPANDED EBS	BACKFILL	REDUCED EBS IN FILL	MASS ORDNATE
													1.00	1.25	1.10	1.30	0.80		
													NOTE 1			NOTE 5	NOTE 7	NOTE 8	
03+50	350.00	0.00	0.02	34.58	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0
03+55.837	355.84	5.84	9.39	16.09	0.00	0.00	1	5	0	0	1	6	0	0	0	0	0	0	-5
03+61.279	361.28	5.44	44.75	10.85	0.00	0.00	5	3	0	0	6	10	0	0	0	0	0	0	-4
03+97.558	397.56	36.28	0.00	2.13	440.22	0.00	30	9	296	0	36	-386	326	0	0	0	0	422	
04+00	400.00	2.44	0.00	1.80	486.11	0.00	0	0	42	0	36	-444	372	0	0	0	0	480	
04+33.837	433.84	33.84	35.94	0.11	600.79	0.00	23	1	681	0	59	-1,379	1,121	0	0	0	0	1,438	
04+50	450.00	16.16	48.10	12.19	655.47	0.00	25	4	376	0	84	-1,891	1,535	0	0	0	0	1,975	
04+70.116	470.12	20.12	58.50	33.49	618.36	0.00	40	17	475	0	124	-2,523	2,057	0	0	0	0	2,647	
05+00	500.00	29.88	39.94	58.65	787.44	0.00	54	51	778	0	178	-3,529	2,913	0	0	0	0	3,707	
05+50	550.00	50.00	20.15	162.05	927.55	0.00	56	204	1,588	0	234	-5,457	4,660	0	0	0	0	5,691	
06+00	600.00	50.00	10.44	297.48	227.57	0.00	28	425	1,070	0	262	-6,397	5,837	0	0	0	0	6,659	
06+50	650.00	50.00	20.31	308.91	0.00	0.00	28	561	211	0	290	-5,986	6,069	0	0	0	0	6,276	
06+73.28	673.28	23.28	48.49	249.56	0.00	0.00	30	241	0	0	320	-5,685	6,069	0	0	0	0	6,005	
EXISTING CTH Q ROADWAY																			
07+50	750.00	0.00	84.02	315.45	0.00	0.00	0	0	0	0	320	-5,685	6,069	0	0	0	0	6,005	
08+00	800.00	50.00	88.23	496.96	0.00	0.00	159	752	0	0	479	-4,745	6,069	0	0	0	0	5,224	
08+49.947	849.95	49.95	0.89	1100.65	0.00	0.00	82	1,478	0	0	561	-4,745	6,069	0	0	0	0	3,458	
							561	3,751	5,517	0									

STAGE 2A - CTH Q

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)								
			CUT	FILL	ROCK	EXC	EBS	CUT	FILL	ROCK	EXC	EBS	CUT	EXPANDED FILL	EXPANDED ROCK	EXPANDED EBS	BACKFILL	REDUCED EBS IN FILL	MASS ORDNATE
													1.00	1.25	1.10	1.30	0.80		
													NOTE 1			NOTE 5	NOTE 7	NOTE 8	
113+64.59	11364.59	0.00	190.06	498.08	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0
114+00	11400.00	35.41	106.41	390.04	0.00	0.00	194	582	0	0	194	728	0	0	0	0	0	0	-534
114+08.923	11408.92	8.92	87.82	370.68	0.00	0.00	32	126	0	0	226	885	0	0	0	0	0	0	-659
114+50	11450.00	41.08	46.62	286.50	0.00	0.00	102	500	0	0	328	1,510	0	0	0	0	0	0	-1,182
114+53.256	11453.26	3.26	43.83	277.38	0.00	0.00	5	34	0	0	333	1,553	0	0	0	0	0	0	-1,220
114+97.59	11497.59	44.33	30.36	159.42	0.00	0.00	61	359	0	0	394	2,001	0	0	0	0	0	0	-1,607
115+00	11500.00	2.41	29.91	161.50	0.00	0.00	3	14	0	0	397	2,019	0	0	0	0	0	0	-1,622
115+41.923	11541.92	41.92	17.64	37.65	0.00	0.00	37	155	0	0	434	2,213	0	0	0	0	0	0	-1,779
115+50	11550.00	8.08	15.65	18.39	0.00	0.00	5	8	0	0	439	2,223	0	0	0	0	0	0	-1,784
116+00	11600.00	50.00	10.51	8.25	0.00	0.00	24	25	0	0	463	2,254	0	0	0	0	0	0	-1,791
116+50	11650.00	50.00	14.19	5.62	0.00	0.00	23	13	0	0	486	2,270	0	0	0	0	0	0	-1,784
117+00	11700.00	50.00	26.42	9.03	0.00	0.00	38	14	0	0	524	2,288	0	0	0	0	0	0	-1,764
117+50	11750.00	50.00	74.73	747.00	0.00	0.00	94	700	0	0	618	3,163	0	0	0	0	0	0	-2,545
118+00	11800.00	50.00	180.84	4.17	0.00	0.00	237	696	0	0	855	4,033	0	0	0	0	0	0	-3,178
118+50	11850.00	50.00	195.31	2.67	0.00	0.00	348	6	0	0	1,203	4,040	0	0	0	0	0	0	-2,837
119+00	11900.00	50.00	129.65	2.54	0.00	0.00	301	5	0	0	1,504	4,046	0	0	0	0	0	0	-2,542
119+50	11950.00	50.00	114.42	2.63	0.00	0.00	226	5	0	0	1,730	4,053	0	0	0	0	0	0	-2,323
120+00	12000.00	50.00	80.91	7.43	0.00	0.00	181	9	0	0	1,911	4,064	0	0	0	0	0	0	-2,153
120+49.989	12049.99	49.99	65.12	11.73	0.00	0.00	135	18	0	0	2,046	4,086	0	0	0	0	0	0	-2,040
120+50	12050.00	0.01	65.12	11.72	0.00	0.00	0	0	0	0	2,046	4,086	0	0	0	0	0	0	-2,040
120+94.322	12094.32	44.32	61.81	31.81	0.00	0.00	104	36	0	0	2,150	4,131	0	0	0	0	0	0	-1,981
121+00	12100.00	5.68	62.85	62.13	0.00	0.00	13	10	0	0	2,163	4,144	0	0	0	0	0	0	-1,981
							2,163	3,315	0	0									

STAGE 2B - CTH Q

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)						311.0110 BREAKER RUN (TON)
			CUT	FILL	ROCK EXC	EBS	CUT	FILL	ROCK EXC	EBS	CUT	EXPANDED FILL	EXPANDED ROCK	EXPANDED EBS BACKFILL	REDUCED EBS IN FILL	MASS ORDNATE	
											1.00	1.25	1.10	1.30	0.80		
NOTE 1	NOTE 3	NOTE 1	NOTE 5	NOTE 7	NOTE 8												
CTH Q SOUTH END (99+79 - 104+00)																	
99+78.767	9978.77	0.00	39.64	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0
100+00	10000.00	21.23	51.53	0.00	0.00	0.00	36	0	0	0	36	0	0	0	0	36	0
100+50	10050.00	50.00	52.98	0.00	0.00	0.00	97	0	0	0	133	0	0	0	0	133	0
101+00	10100.00	50.00	43.63	0.00	0.00	0.00	89	0	0	0	222	0	0	0	0	222	0
101+10.362	10110.36	10.36	43.57	0.00	0.00	0.00	17	0	0	0	239	0	0	0	0	239	0
101+50	10150.00	39.64	81.46	0.00	0.00	0.00	92	0	0	0	331	0	0	0	0	331	0
101+51.585	10151.58	1.58	80.50	0.00	0.00	0.00	5	0	0	0	336	0	0	0	0	336	0
101+95.918	10195.92	44.33	82.61	0.00	0.00	0.00	134	0	0	0	470	0	0	0	0	470	0
102+00	10200.00	4.08	100.72	0.00	0.00	0.00	14	0	0	0	484	0	0	0	0	484	0
102+40.45	10240.45	40.45	106.67	0.00	0.00	0.00	155	0	0	0	639	0	0	0	0	639	0
102+50	10250.00	9.55	107.68	0.00	0.00	0.00	38	0	0	0	677	0	0	0	0	677	0
102+84.585	10284.58	34.58	128.80	0.00	0.00	0.00	151	0	0	0	828	0	0	0	0	828	0
103+00	10300.00	15.42	147.69	0.00	0.00	0.00	79	0	0	0	907	0	0	0	0	907	0
103+29.112	10329.11	29.11	0.00	0.00	0.00	0.00	80	0	0	0	987	0	0	0	0	987	0
103+50	10350.00	20.89	0.00	0.00	0.00	0.00	0	0	0	0	987	0	0	0	0	987	0
104+00	10400.00	50.00	0.00	0.00	0.00	0.00	0	0	0	0	987	0	0	0	0	987	0
CTH Q NORTH END (122+00 - 132+36)																	
122+00	12200.00	0.00	37.67	25.79	0.00	0.00	0	0	0	0	987	0	0	0	0	987	0
122+31.88	12231.88	31.88	37.45	17.50	0.00	0.00	44	26	0	0	1,031	33	0	0	0	999	0
122+50	12250.00	18.12	43.56	11.77	0.00	0.00	27	10	0	0	1,058	45	0	0	0	1,013	0
123+00	12300.00	50.00	50.16	2.42	0.00	0.00	87	13	0	0	1,145	61	0	0	0	1,084	0
123+50	12350.00	50.00	51.56	5.64	0.00	0.00	94	7	0	0	1,239	70	0	0	0	1,169	0
124+00	12400.00	50.00	40.73	2.93	0.00	0.00	85	8	0	0	1,324	80	0	0	0	1,244	0
124+50	12450.00	50.00	27.35	2.51	0.00	0.00	63	5	0	0	1,387	86	0	0	0	1,301	0
125+00	12500.00	50.00	22.31	2.60	0.00	0.00	46	5	0	0	1,433	93	0	0	0	1,341	0
125+50	12550.00	50.00	24.17	1.76	0.00	0.00	43	4	0	0	1,476	98	0	0	0	1,379	0
126+00	12600.00	50.00	30.74	5.09	0.00	0.00	51	6	0	0	1,527	105	0	0	0	1,422	0
126+50	12650.00	50.00	43.66	3.53	0.00	0.00	69	8	0	0	1,596	115	0	0	0	1,481	0
127+00	12700.00	50.00	55.13	2.48	0.00	30.48	91	6	0	28	1,687	95	0	36	22	1,593	66
127+50	12750.00	50.00	50.66	1.00	0.00	34.46	98	3	0	60	1,785	38	0	114	70	1,747	206
128+00	12800.00	50.00	63.47	0.62	0.00	36.18	106	2	0	65	1,891	-24	0	199	122	1,915	358
128+50	12850.00	50.00	42.24	0.04	0.00	0.00	98	1	0	34	1,989	-57	0	243	150	2,046	438
129+00	12900.00	50.00	41.72	0.15	0.00	0.00	78	0	0	0	2,067	-57	0	243	150	2,124	438
129+50	12950.00	50.00	49.22	0.23	0.00	0.00	84	0	0	0	2,151	-57	0	243	150	2,208	438
130+00	13000.00	50.00	66.65	0.28	0.00	0.00	107	0	0	0	2,258	-57	0	243	150	2,315	438
130+50	13050.00	50.00	68.32	0.73	0.00	0.00	125	1	0	0	2,383	-56	0	243	150	2,439	438
131+00	13100.00	50.00	69.65	4.65	0.00	0.00	128	5	0	0	2,511	-50	0	243	150	2,561	438
131+50	13150.00	50.00	60.26	2.55	0.00	0.00	120	7	0	0	2,631	-41	0	243	150	2,672	438
132+00	13200.00	50.00	45.31	30.94	0.00	0.00	98	31	0	0	2,729	-2	0	243	150	2,731	438
132+35.78	13235.78	35.78	43.60	0.00	0.00	0.00	59	20	0	0	2,788	23	0	243	150	2,765	438
							2,788	168	0	187							

STAGE 3 - CTH Q

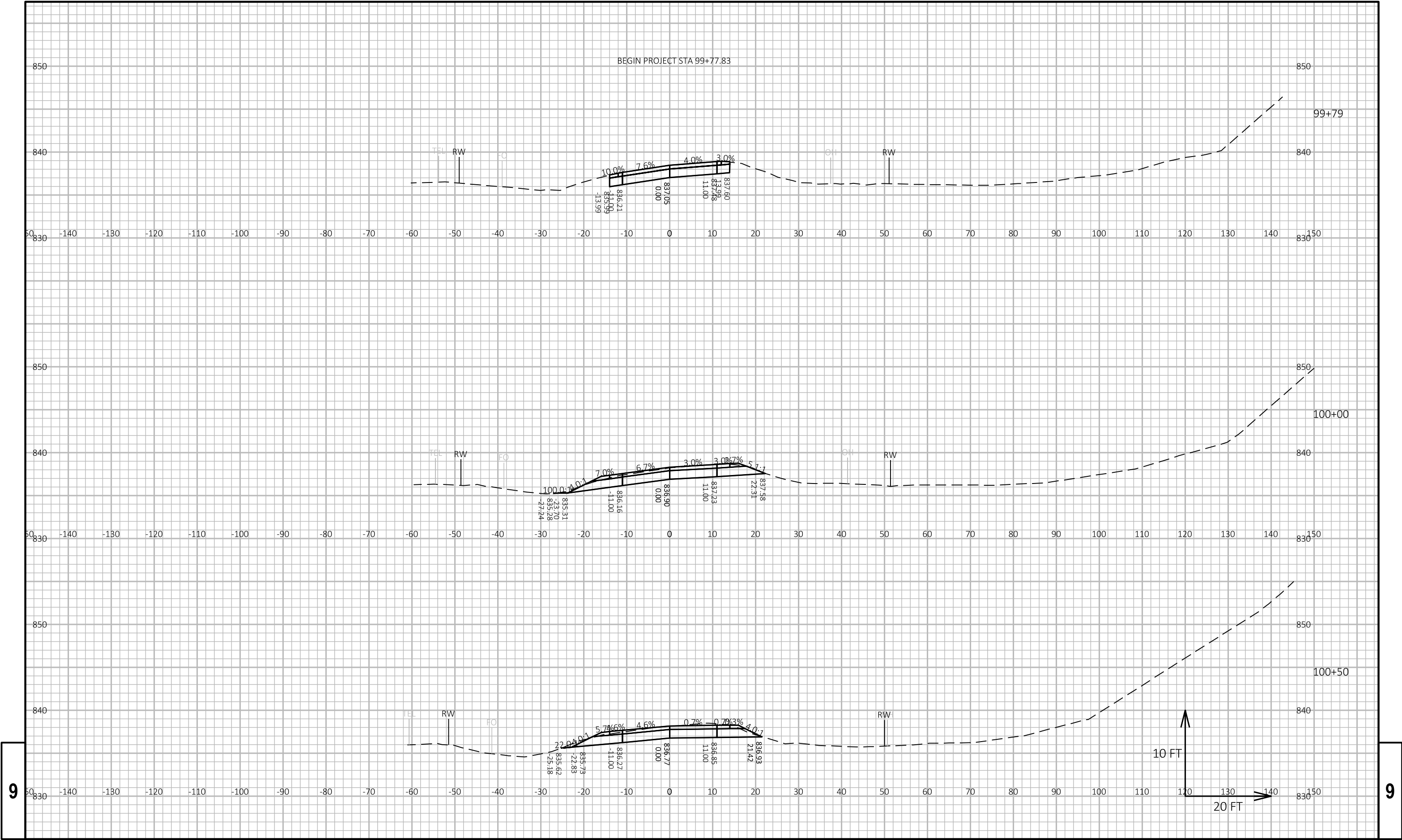
STATION	REAL STATION	DISTANCE	AREA (SF)				NCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)								
			CUT	FILL	ROCK	EXC	EBS	CUT	FILL	ROCK	EXC	EBS	CUT	EXPANDED FILL	EXPANDED ROCK	EXPANDED EBS	BACKFILL	REDUCED EBS IN FILL	MASS ORDINATE
													1.00	1.25	1.10	1.30	0.80		
													NOTE 1			NOTE 5	NOTE 7	NOTE 8	
112+00	11200.00	0.00	27.12	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0
112+09.032	11209.03	9.03	40.56	0.00	0.00	0.00	11	0	0	0	11	0	0	0	0	0	0	0	11
112+50	11250.00	40.97	90.69	0.00	0.00	0.00	100	0	0	0	111	0	0	0	0	0	0	0	111
113+00	11300.00	50.00	123.73	0.00	0.00	0.00	199	0	0	0	310	0	0	0	0	0	0	0	310
113+24.737	11324.74	24.74	118.20	0.00	0.00	0.00	111	0	0	0	421	0	0	0	0	0	0	0	421
113+50	11350.00	25.26	278.18	0.00	0.00	0.00	185	0	0	0	606	0	0	0	0	0	0	0	606
113+64.59	11364.59	14.59	190.06	0.00	0.00	0.00	127	0	0	0	733	0	0	0	0	0	0	0	733
CTH Q HOMER INTERSECTION																			
121+00	12100.00	0.00	62.85	61.73	0.00	0.00	0	0	0	0	733	0	0	0	0	0	0	0	733
121+39.14	12139.14	39.14	59.21	25.37	0.00	0.00	43	18	0	0	776	23	0	0	0	0	0	0	754
121+50	12150.00	10.86	66.16	18.41	0.00	0.00	25	9	0	0	801	34	0	0	0	0	0	0	767
121+83.46	12183.46	33.46	46.03	7.34	0.00	0.00	70	16	0	0	871	54	0	0	0	0	0	0	817
122+00	12200.00	16.54	37.67	26.02	0.00	0.00	26	10	0	0	897	66	0	0	0	0	0	0	831
STAGE 2 - HOMER RD							897	53	0	0									

STAGE 3 - HOMER RD

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)													
			CUT	FILL	ROCK	EXC	EBS	CUT	FILL	ROCK	EXC	EBS	CUT	EXPANDED FILL	EXPANDED ROCK	EXPANDED EBS	BACKFILL	REDUCED EBS IN FILL	MASS	ORDINATE				
00+38.01	38.01	0.00	33.35	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0					
00+50	50.00	11.99	38.23	3.31	0.00	0.00	16	1	0	0	16	1	0	0	0	0	0	0	15					
01+00	100.00	50.00	45.57	4.06	0.00	0.00	78	7	0	0	94	10	0	0	0	0	0	0	84					
01+50	150.00	50.00	49.72	11.67	0.00	0.00	88	15	0	0	182	29	0	0	0	0	0	0	153					
01+88.217	188.22	38.22	59.24	10.57	0.00	0.00	77	16	0	0	259	49	0	0	0	0	0	0	210					
01+93.659	193.66	5.44	58.62	10.77	0.00	0.00	12	2	0	0	271	51	0	0	0	0	0	0	220					
02+00	200.00	6.34	56.98	11.79	0.00	0.00	14	3	0	0	285	55	0	0	0	0	0	0	230					
02+50	250.00	50.00	17.31	5.92	0.00	0.00	69	16	0	0	354	75	0	0	0	0	0	0	279					
03+00	300.00	50.00	0.80	54.29	0.00	0.00	17	56	0	0	371	145	0	0	0	0	0	0	226					
03+50	350.00	140.00	0.02	41.01	0.00	0.00	2	247	0	0	373	454	0	0	0	0	0	0	-81					
03+55.837	355.84	5.84	9.39	42.33	0.00	0.00	1	9	0	0	374	465	0	0	0	0	0	0	-91					
03+61.279	361.28	5.44	44.75	38.60	0.00	0.00	5	8	0	0	379	475	0	0	0	0	0	0	-96					
03+97.558	397.56	36.28	43.00	2.13	0.00	0.00	59	27	0	0	438	509	0	0	0	0	0	0	-71					
04+00	400.00	2.44	43.00	1.80	0.00	0.00	4	0	0	0	442	509	0	0	0	0	0	0	-67					
HOMER ROAD OVER EXISTING CTH Q (6+73 - 7+50)																								
06+73.28	673.28	0.00	48.49	249.56	0.00	0.00	0	0	0	0	442	509	0	0	0	0	0	0	-67					
07+00	700.00	26.72	79.33	130.42	0.00	0.00	63	188	0	0	505	744	0	0	0	0	0	0	-239					
07+50	750.00	50.00	84.02	315.45	0.00	0.00	151	413	0	0	656	1,260	0	0	0	0	0	0	-604					
							656	1,008	0	0														

STAGE 3 - CHURCH ROAD

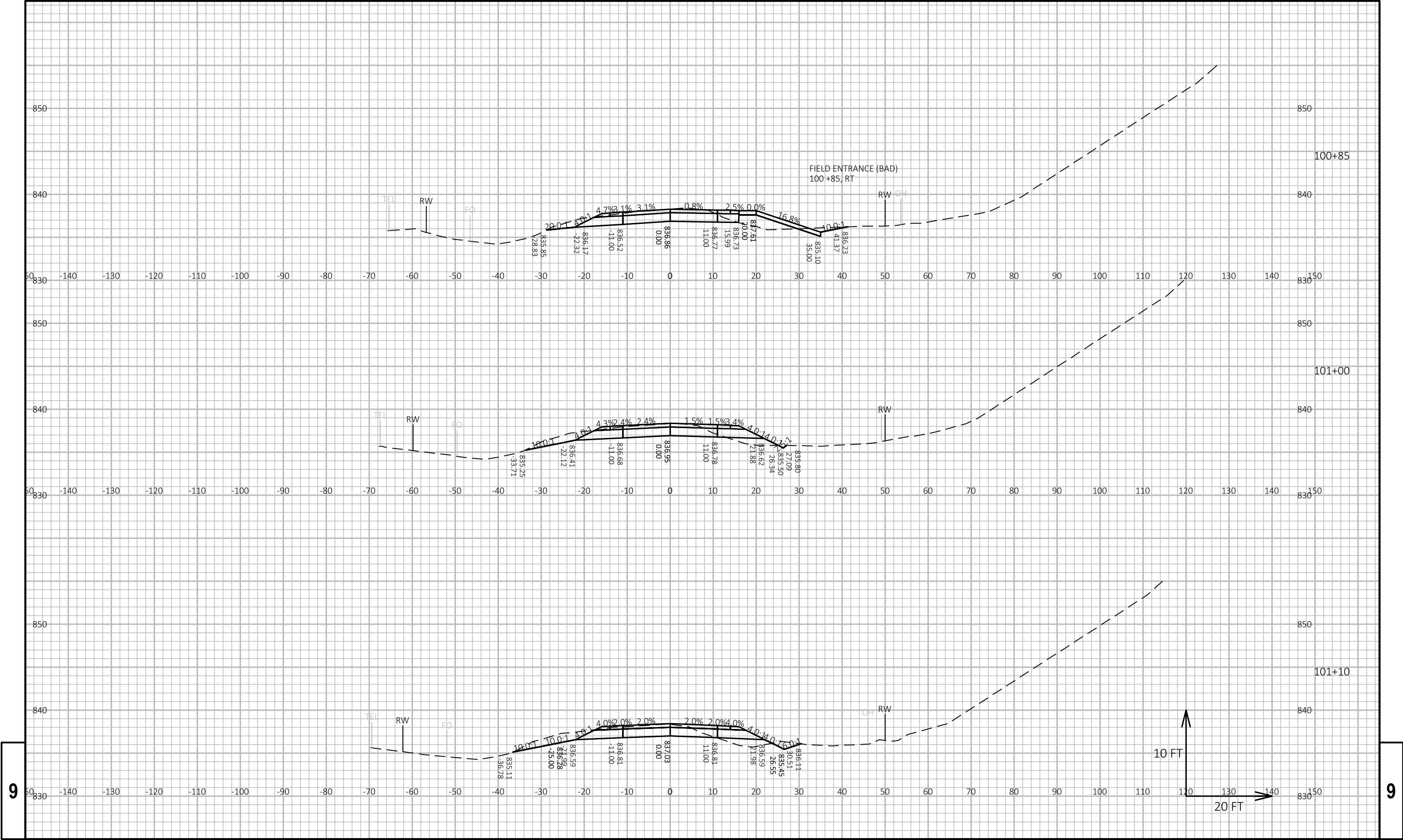
STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)						
			CUT	FILL	ROCK EXC	EBS	CUT	FILL	ROCK EXC	EBS	CUT	EXPANDED FILL	EXPANDED ROCK	EXPANDED EBS	BACKFILL	REDUCED EBS IN FILL	MASS ORDINATE
00+53.232	53.23	0.00	34.46	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0
01+00	100.00	46.77	16.45	34.61	0.00	0.00	44	30	0	0	44	38	0	0	0	0	7
01+50	150.00	50.00	18.84	35.39	0.00	0.00	33	65	0	0	77	119	0	0	0	0	-42
01+75	175.00	25.00	33.00	79.57	0.00	0.00	24	53	0	0	101	185	0	0	0	0	-84
							101	148	0	0							



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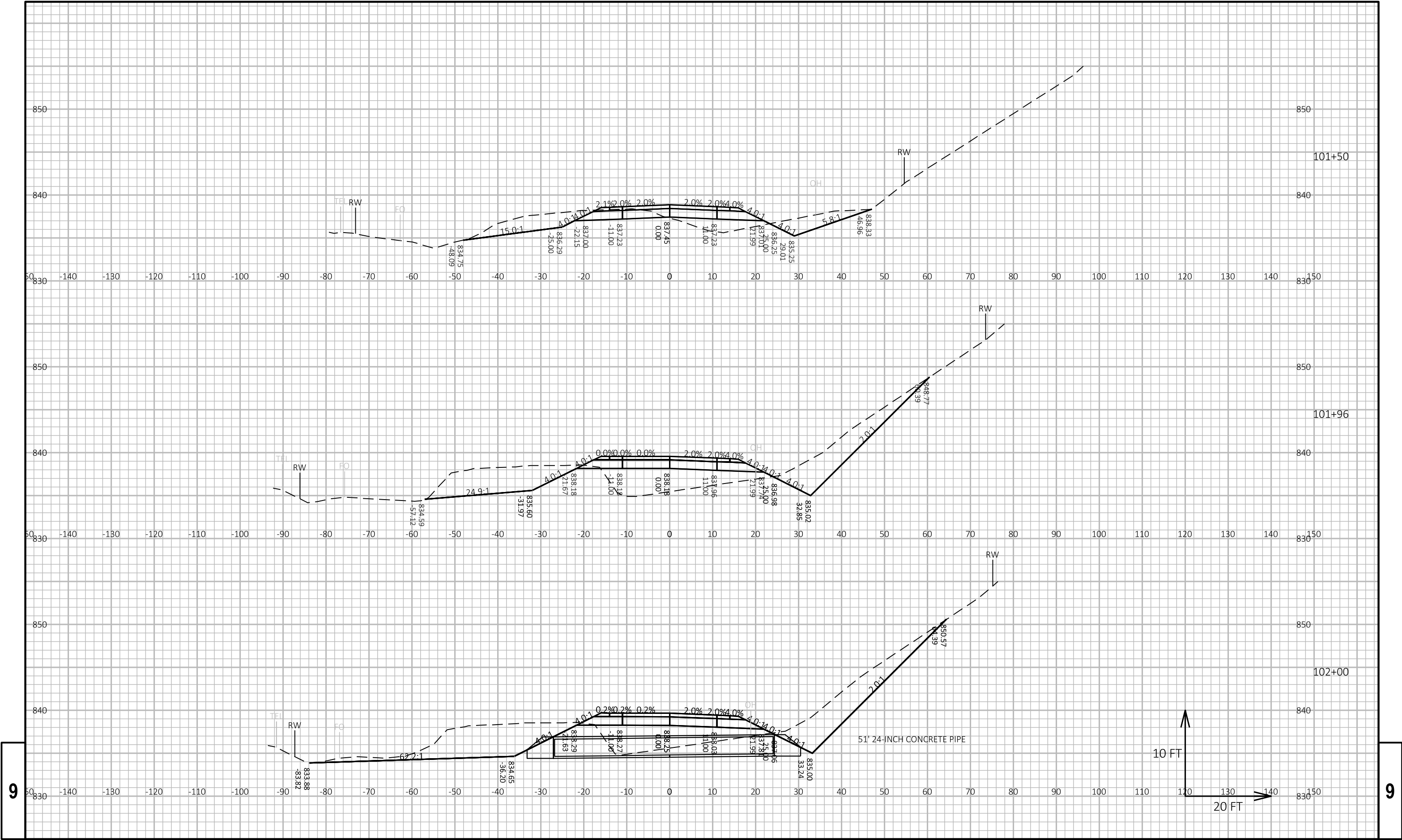
PROJECT NO: 5667-00-75	HWY: CTH Q	COUNTY: GRANT	CROSS SECTIONS: CTH Q	SHEET E
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PROJECT NO: 5667-00-75	HWY: CTH Q	COUNTY: GRANT	CROSS SECTIONS: CTH Q	SHEET E
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PROJECT NO: 5667-00-75

HWY: CTH Q

COUNTY: GRANT

CROSS SECTIONS: CTH Q

SHEET

E

FILE NAME : \\MSA-PS.COM\F5\PROJECT\03\03405\03405011\CADD\SHEETSP\090201-XS EXTENDED SV.DWG
LAYOUT NAME - 090204-xs

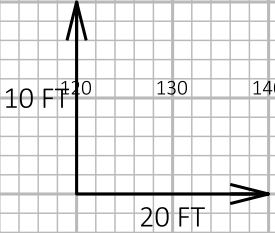
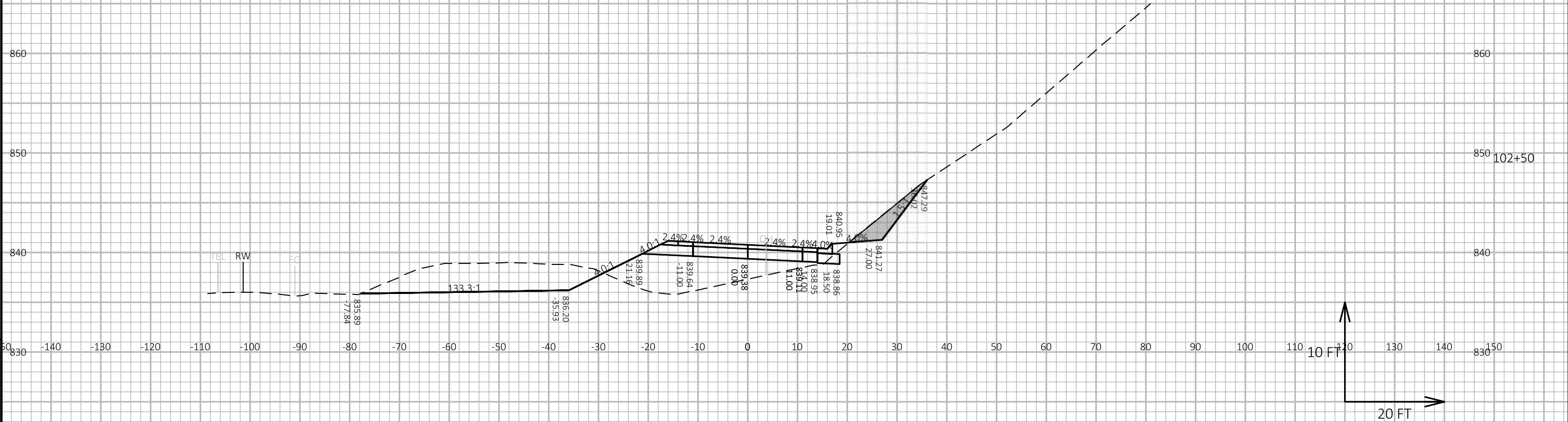
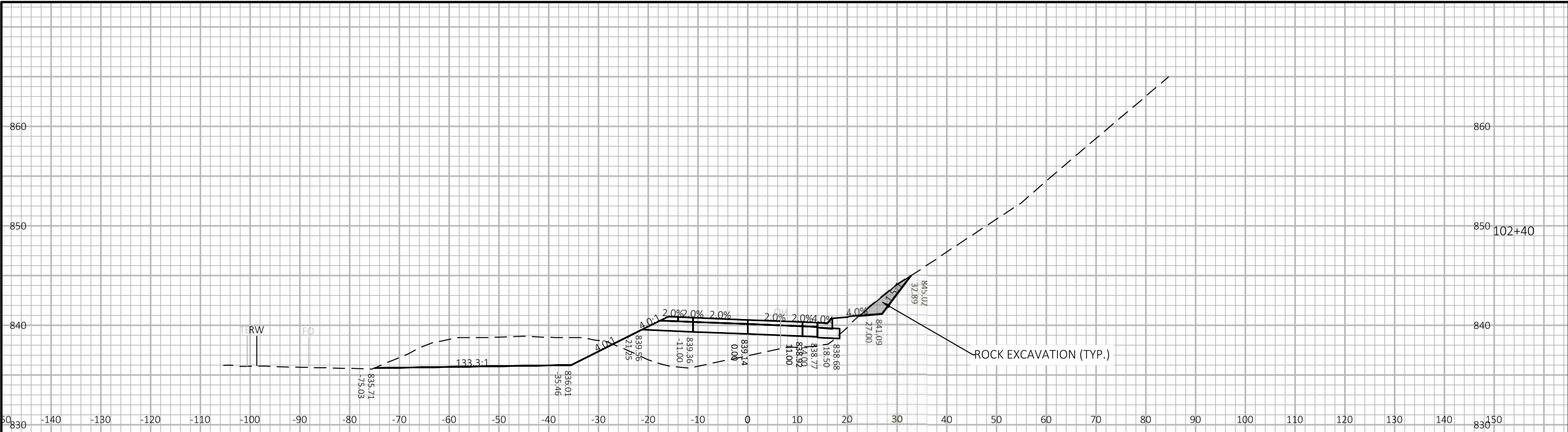
PLOT DATE : 10/18/2021 11:55 AM

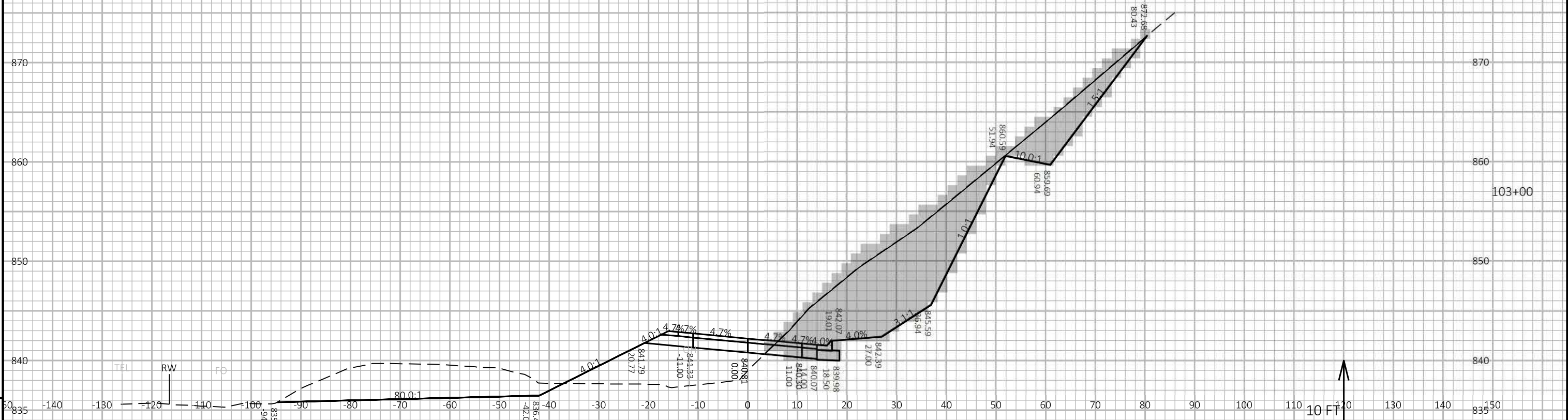
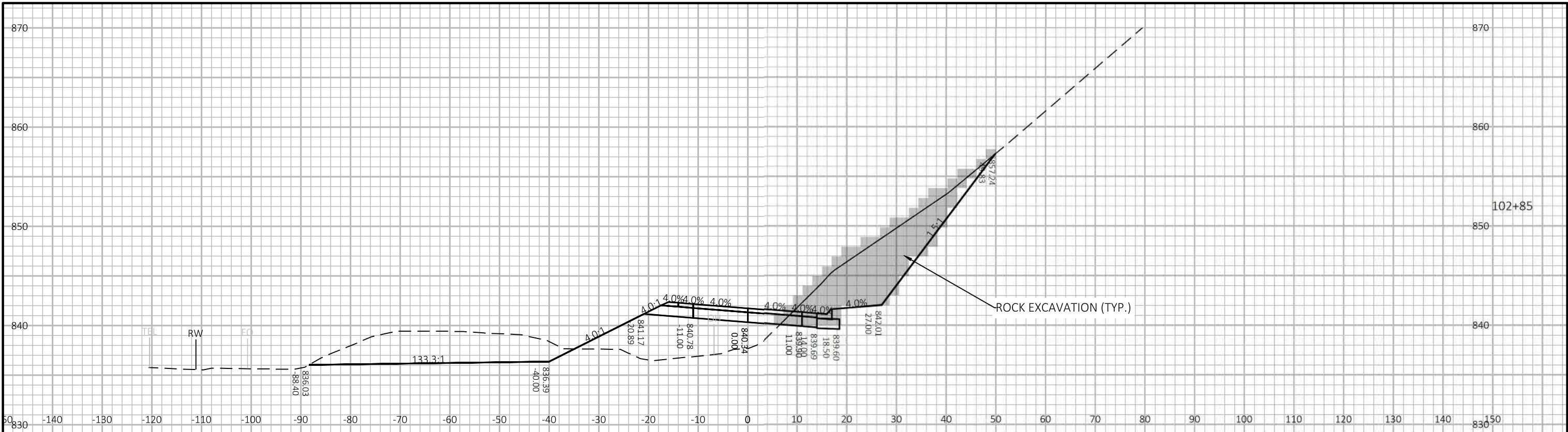
PLOT BY : SIMON SCHIFERL

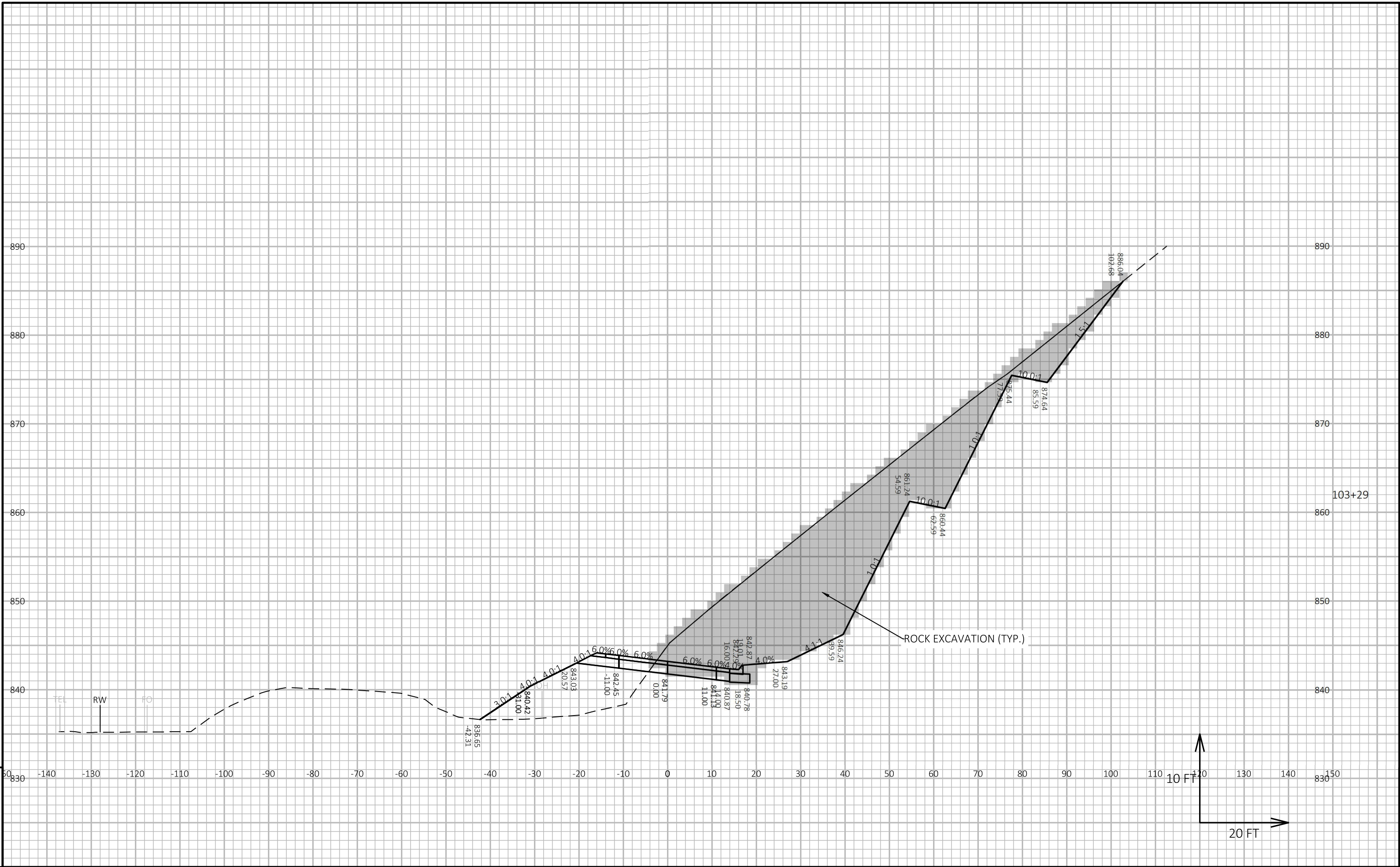
PLOT NAME :

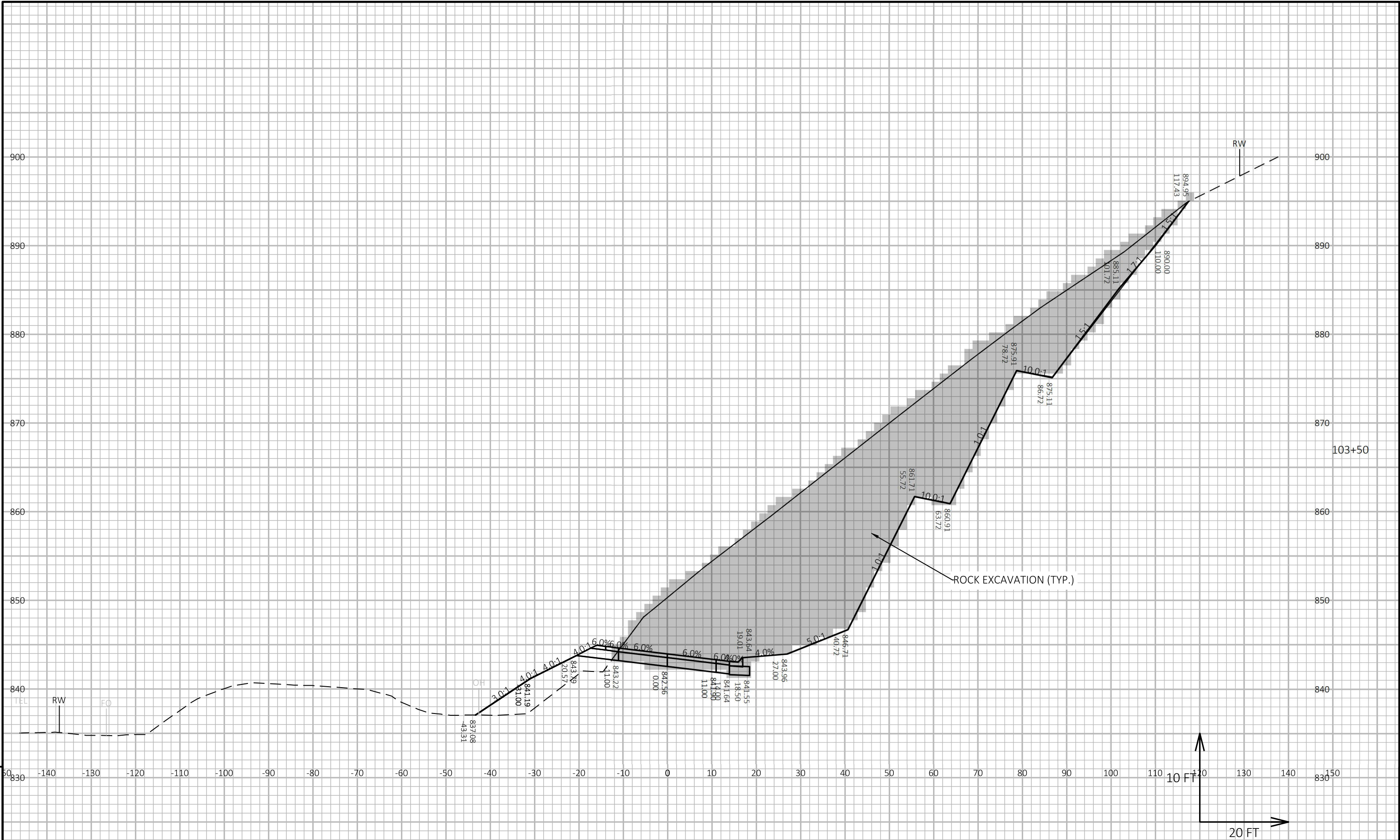
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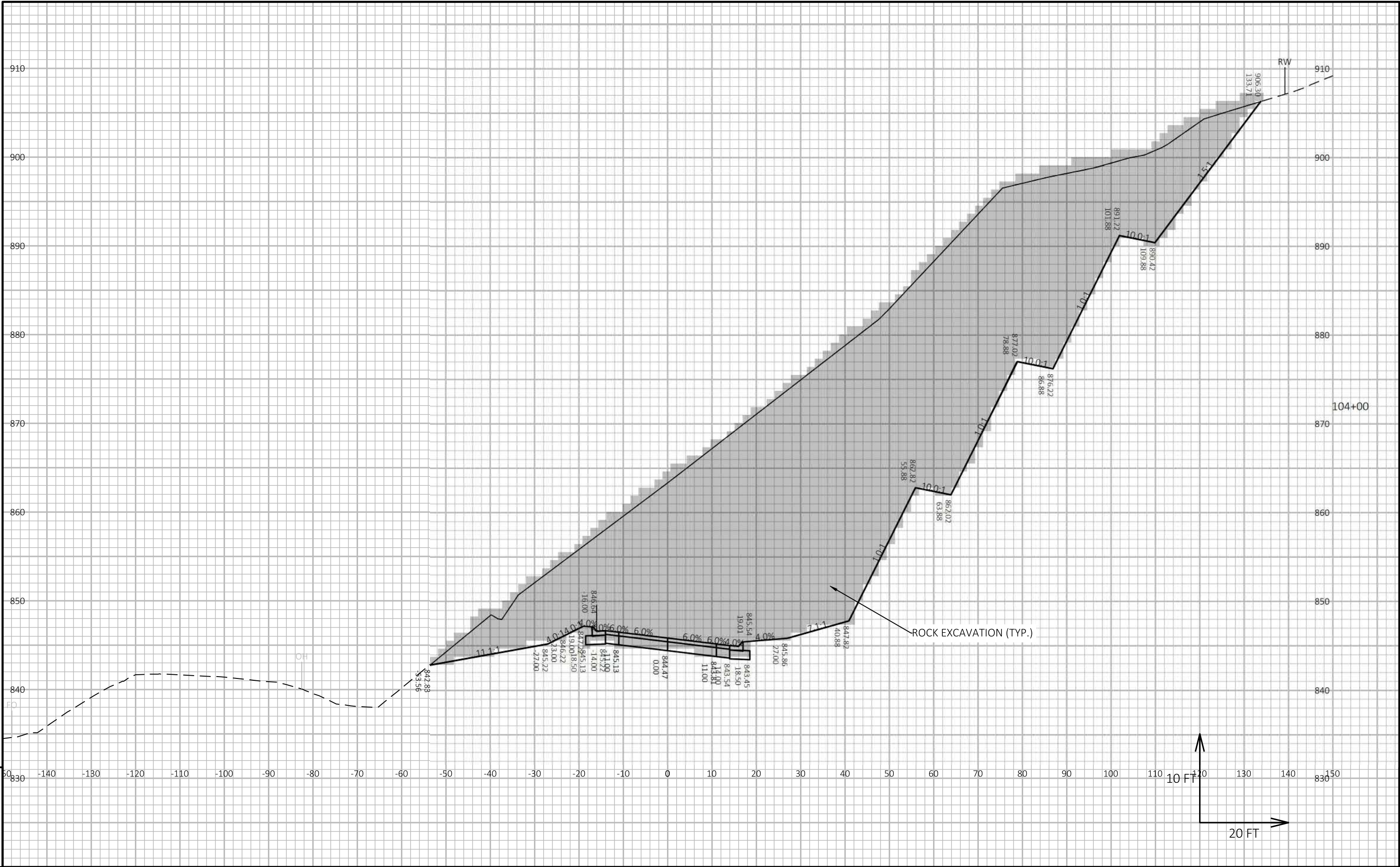
WISDOT/CADD'S SHEET 49

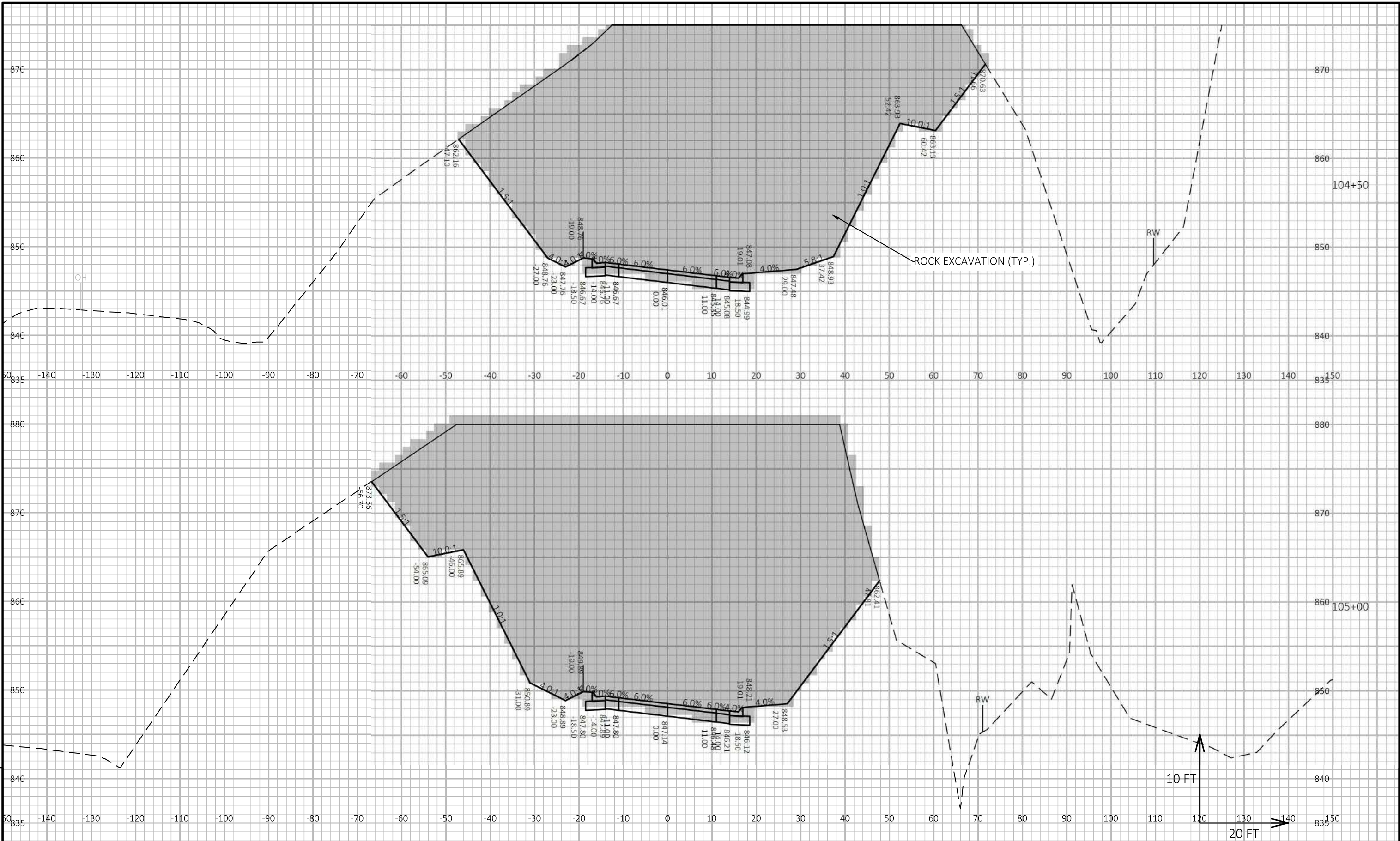


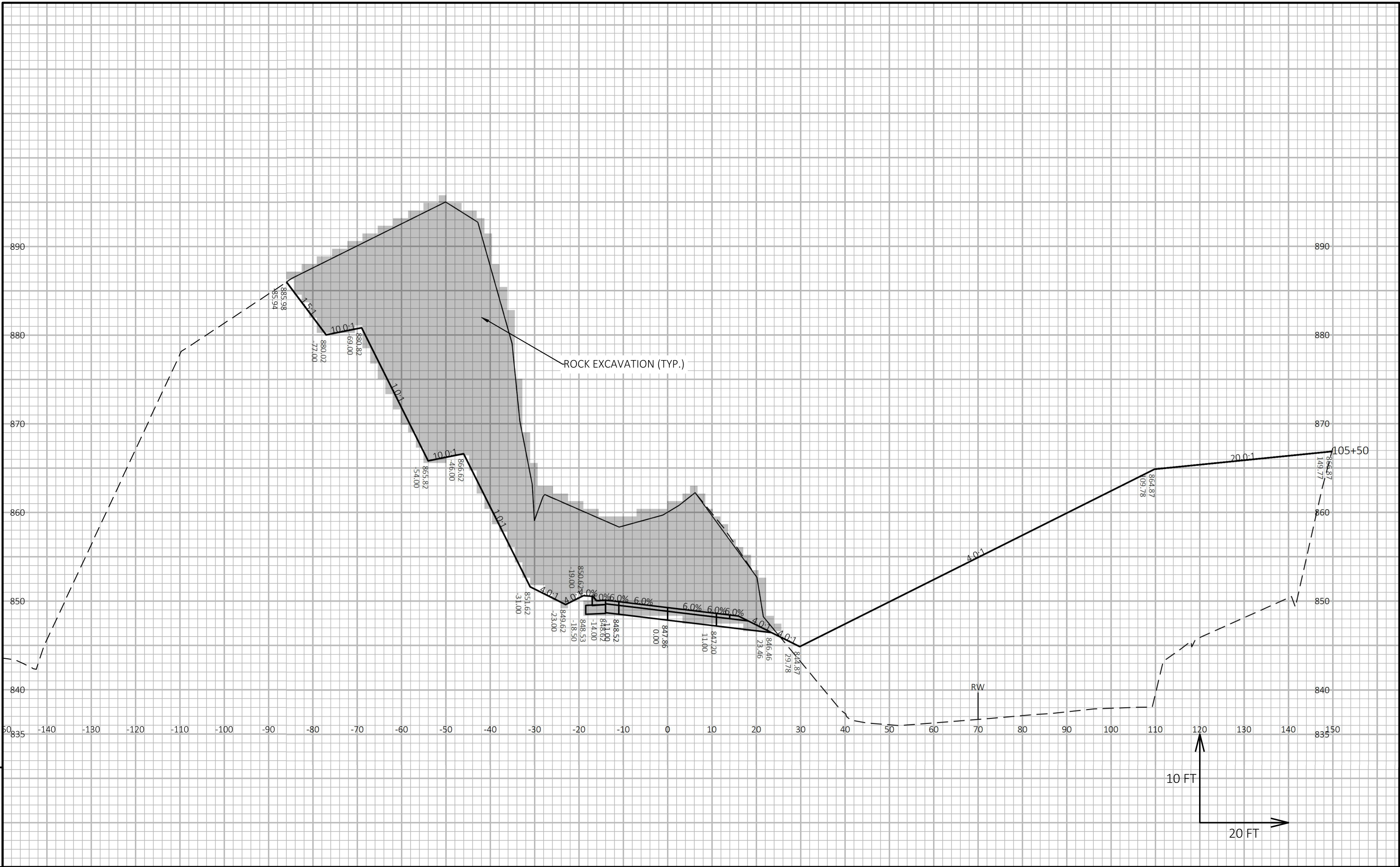


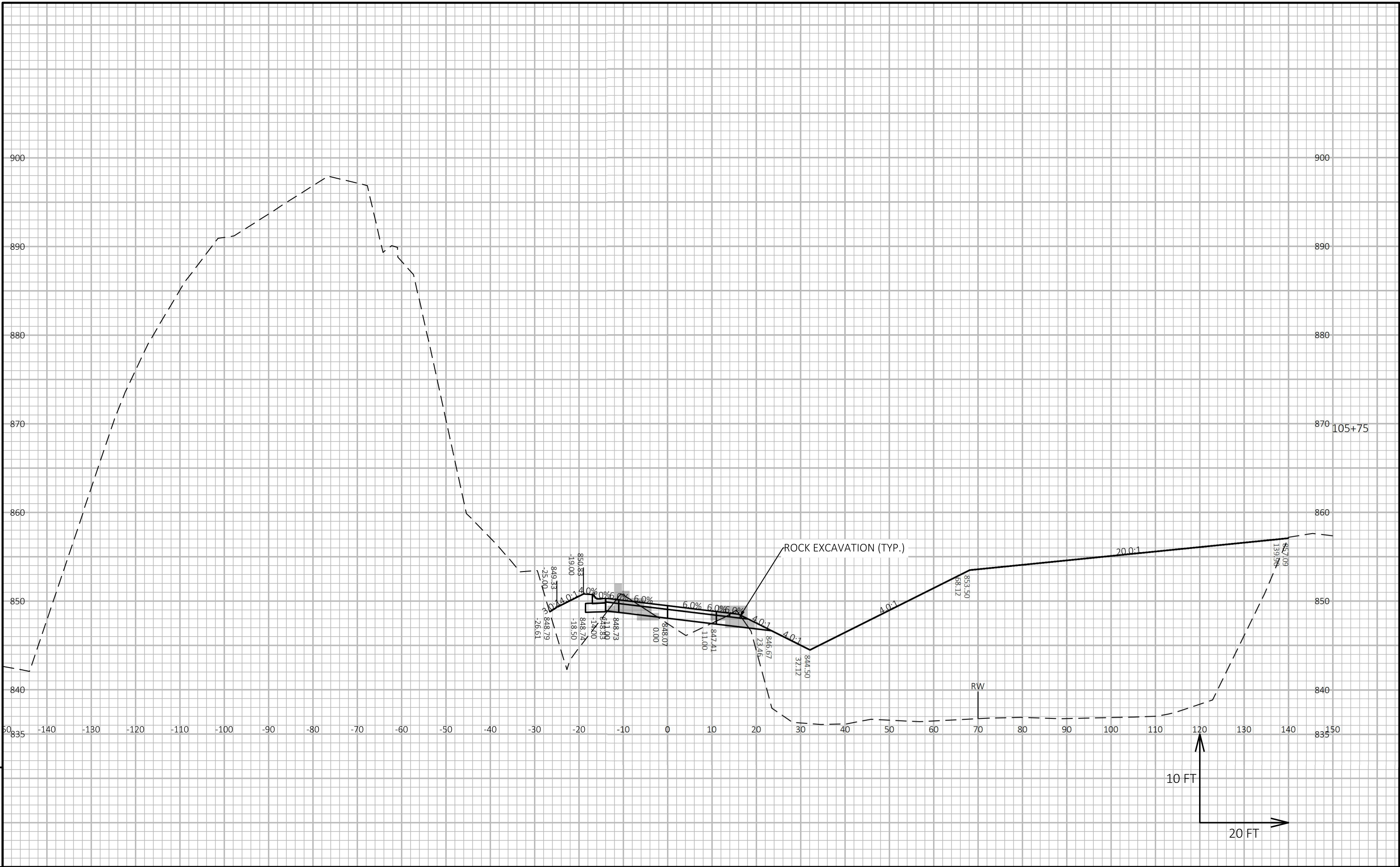


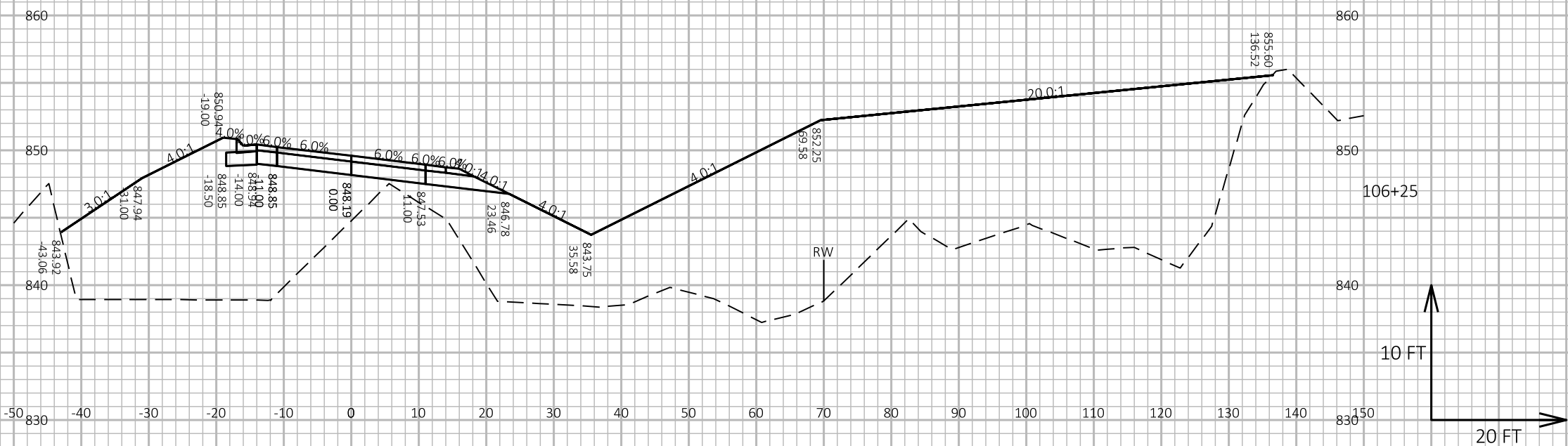
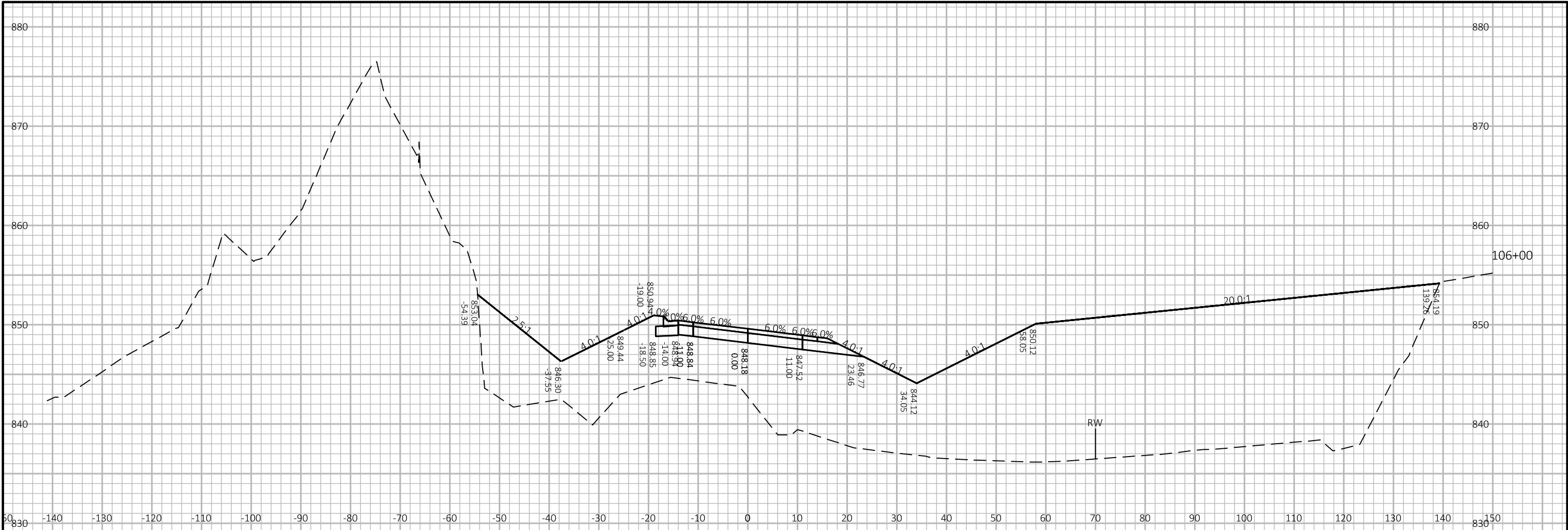








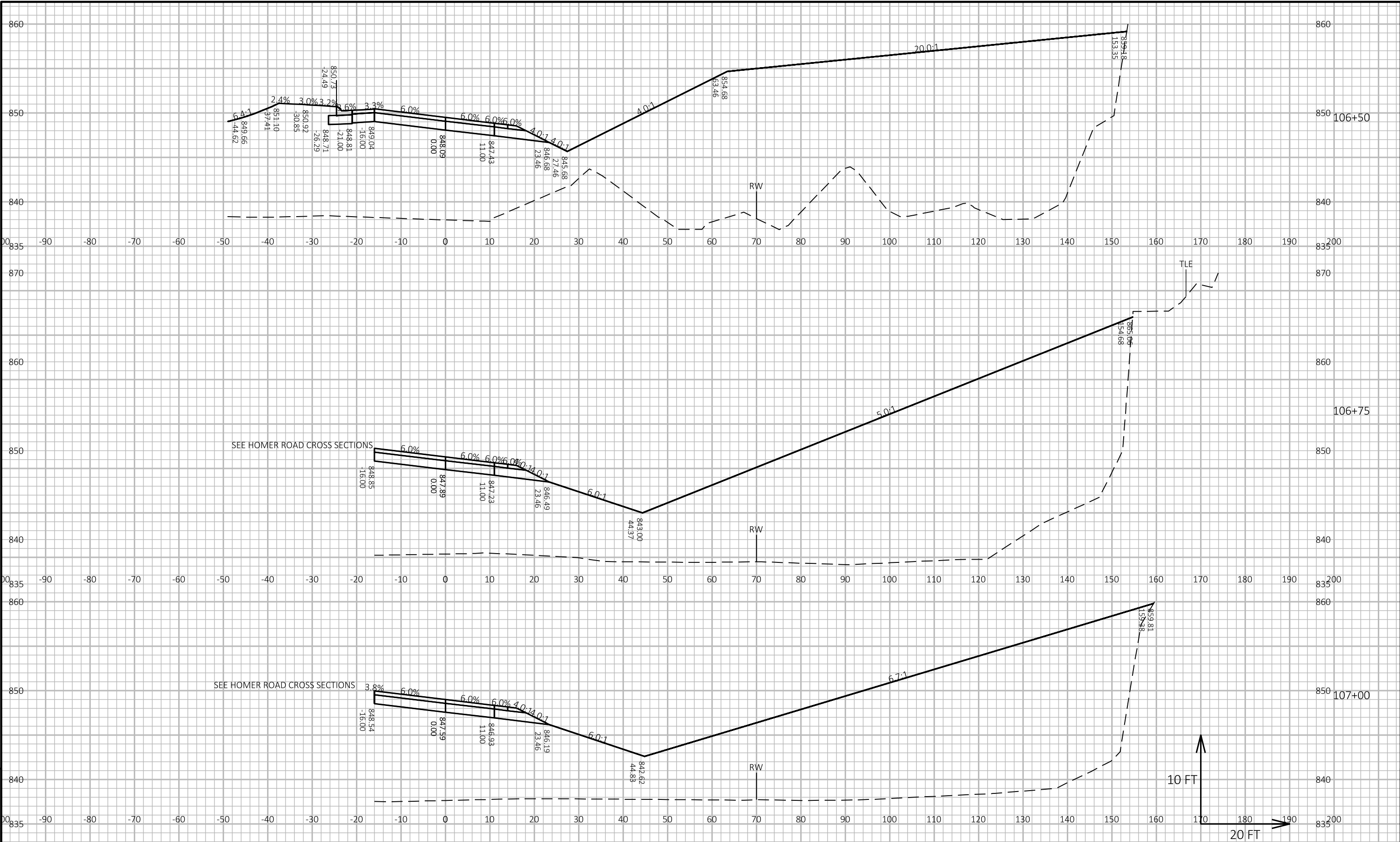


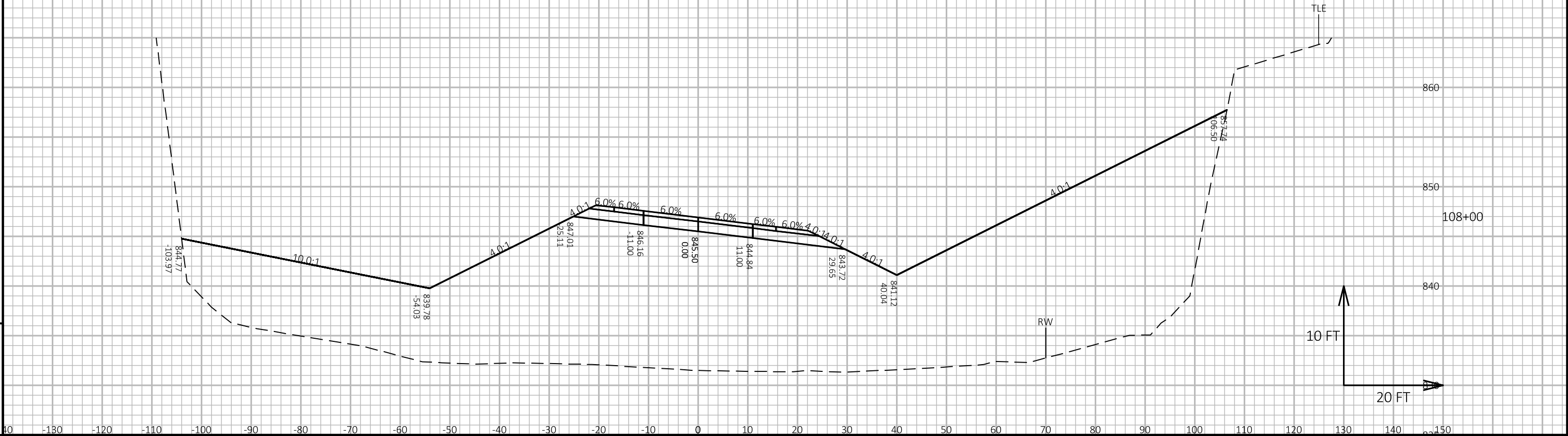
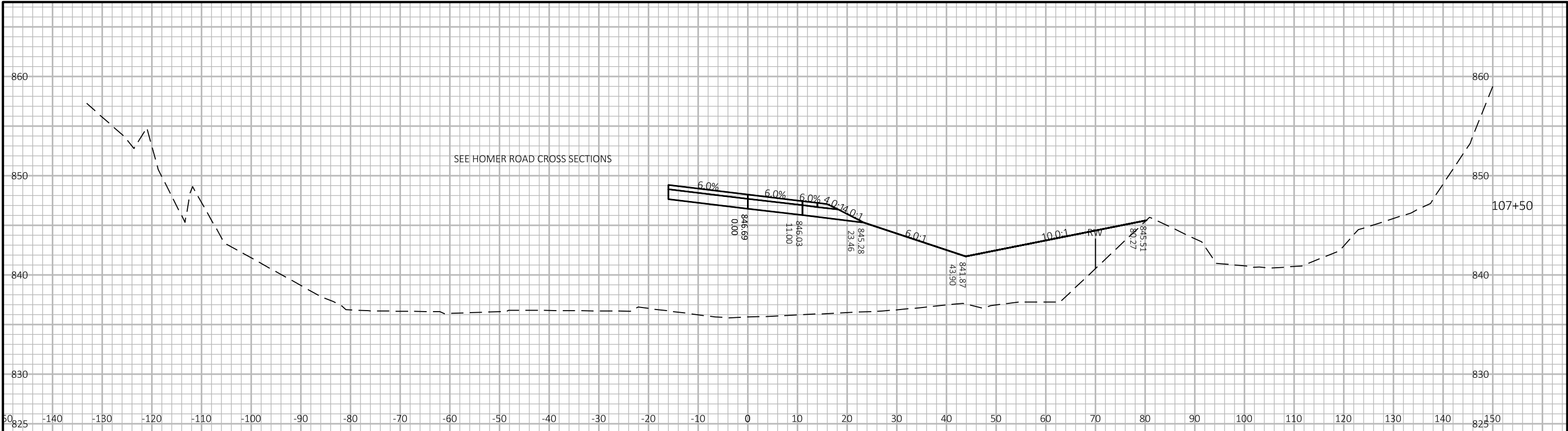


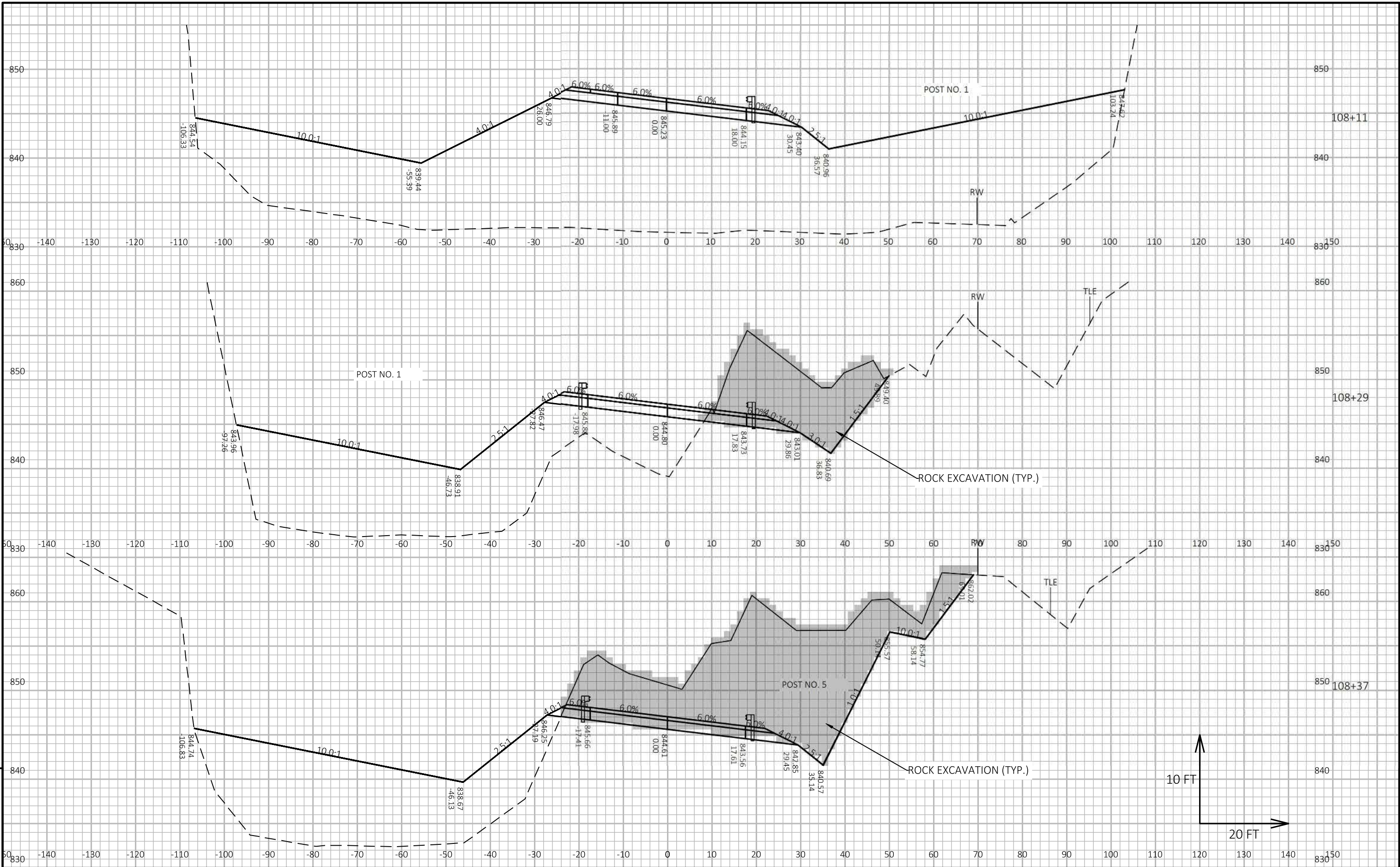
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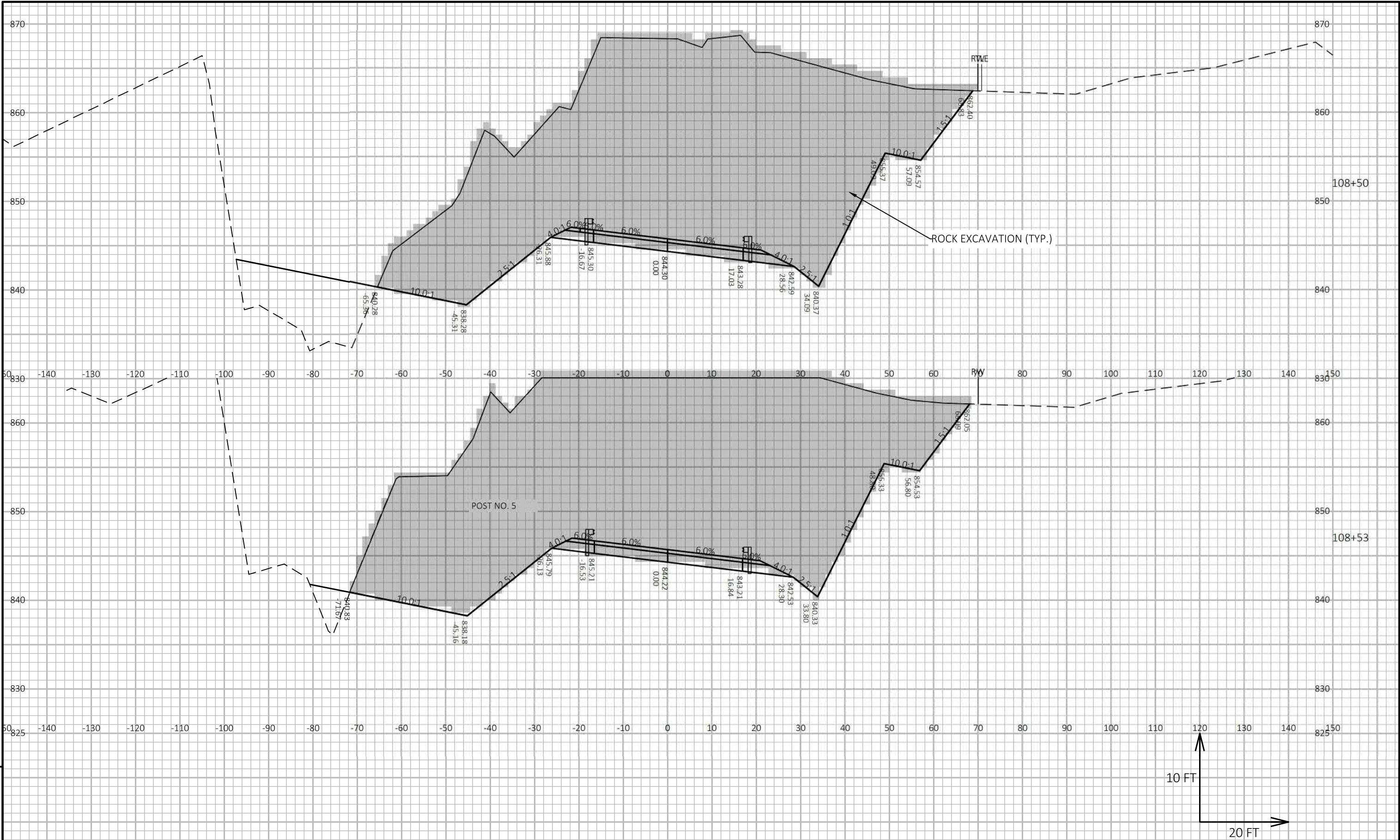
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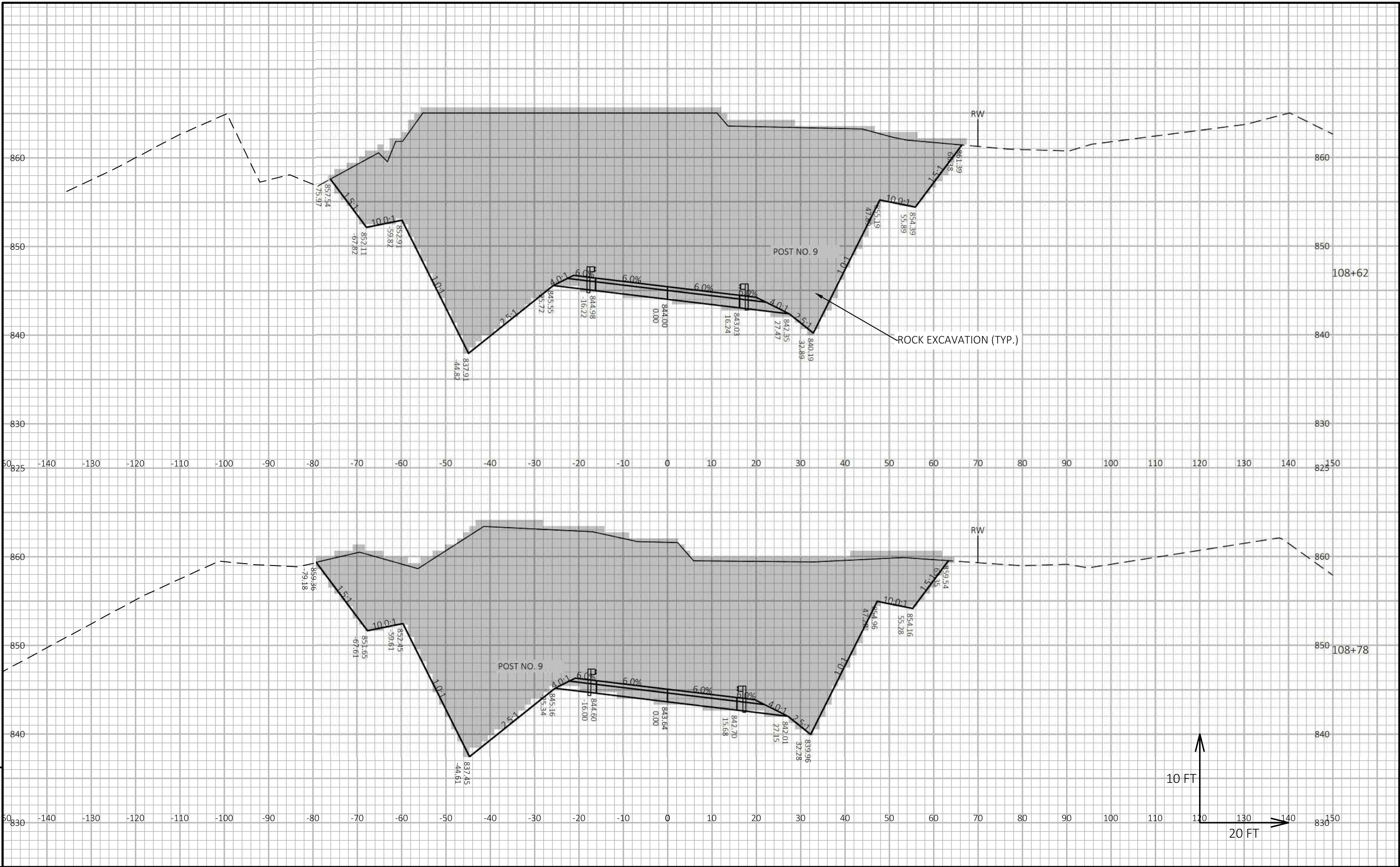
PROJECT NO: 5667-00-75	HWY: CTH Q	COUNTY: GRANT	CROSS SECTIONS: CTH Q	SHEET E
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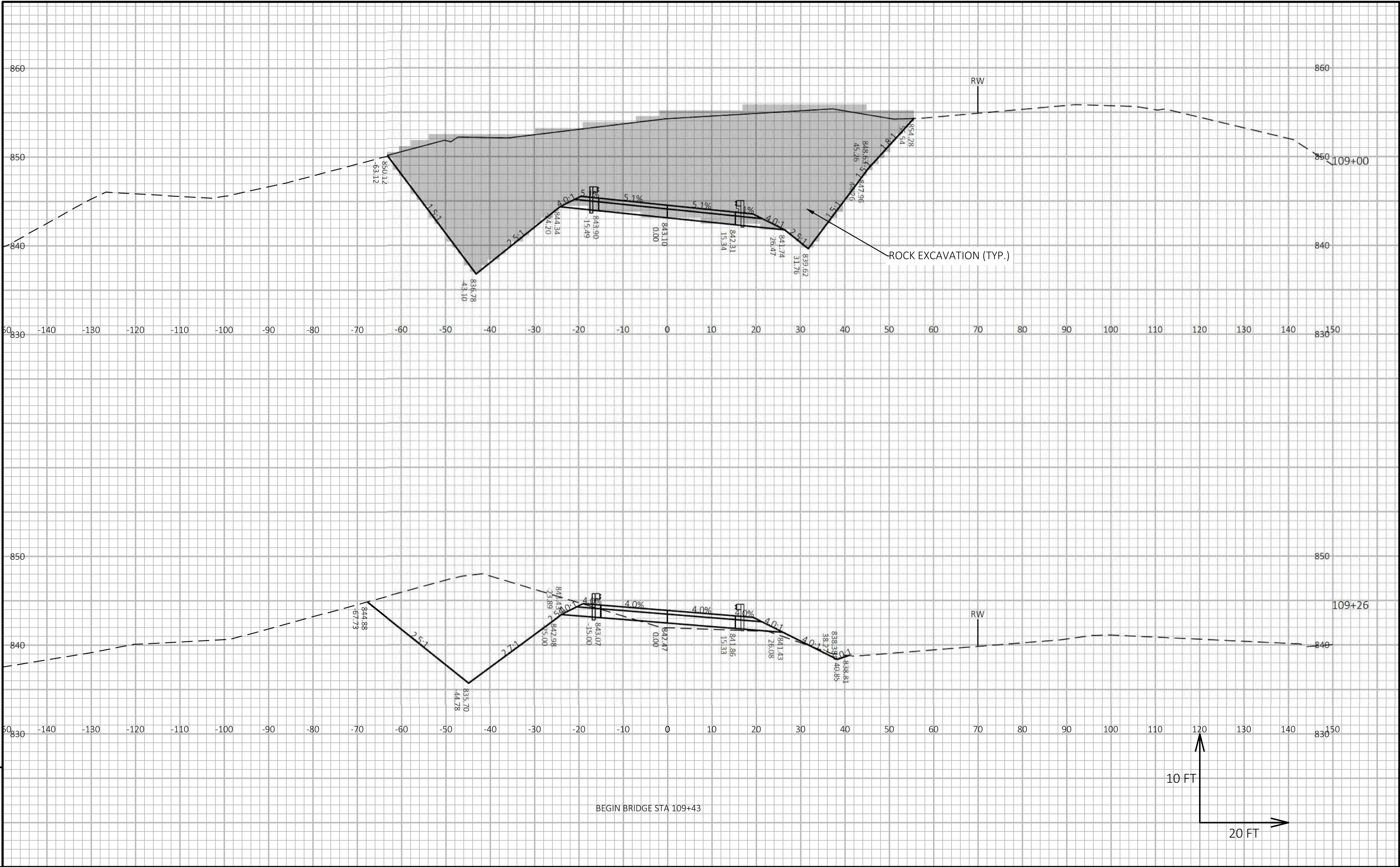


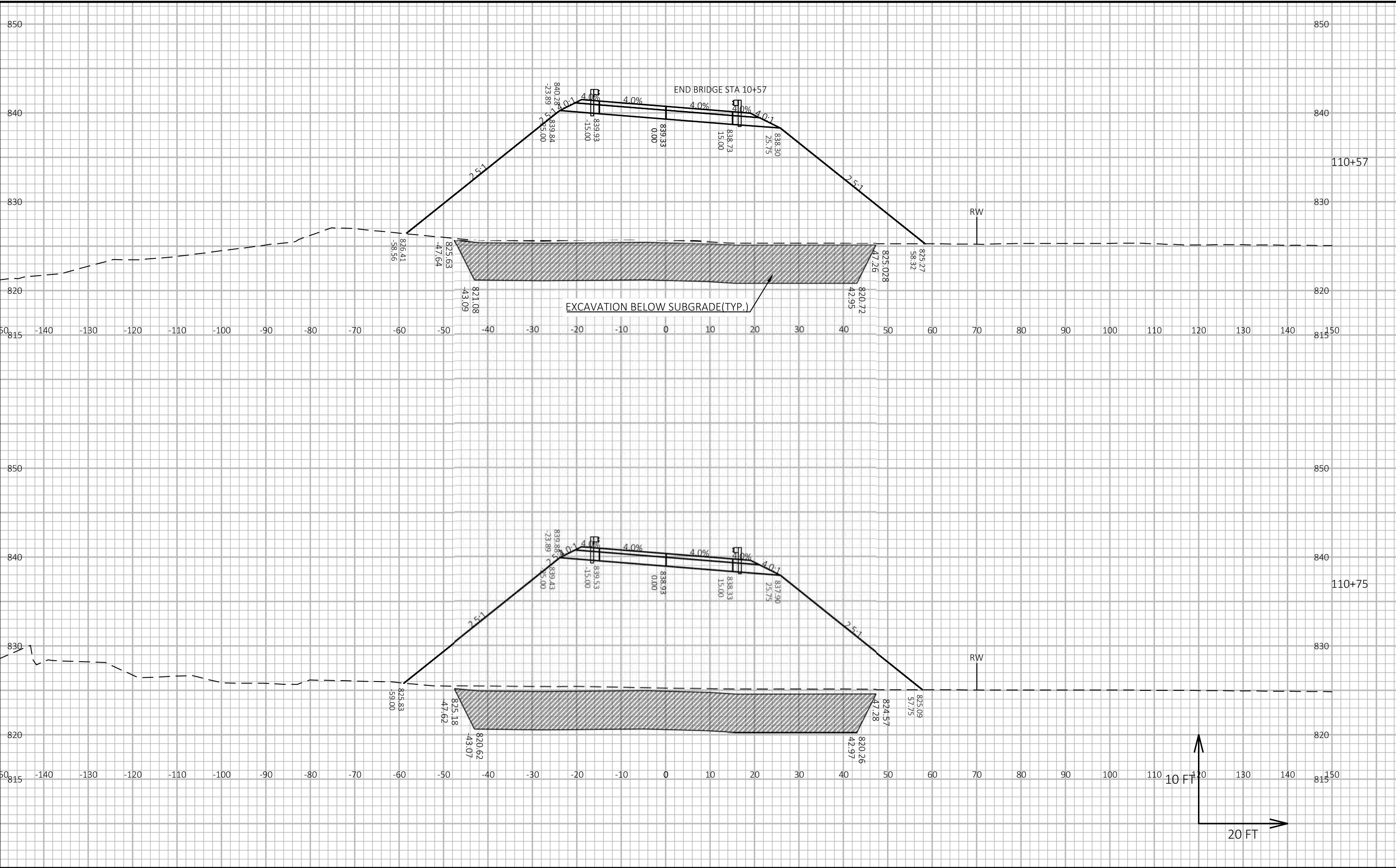


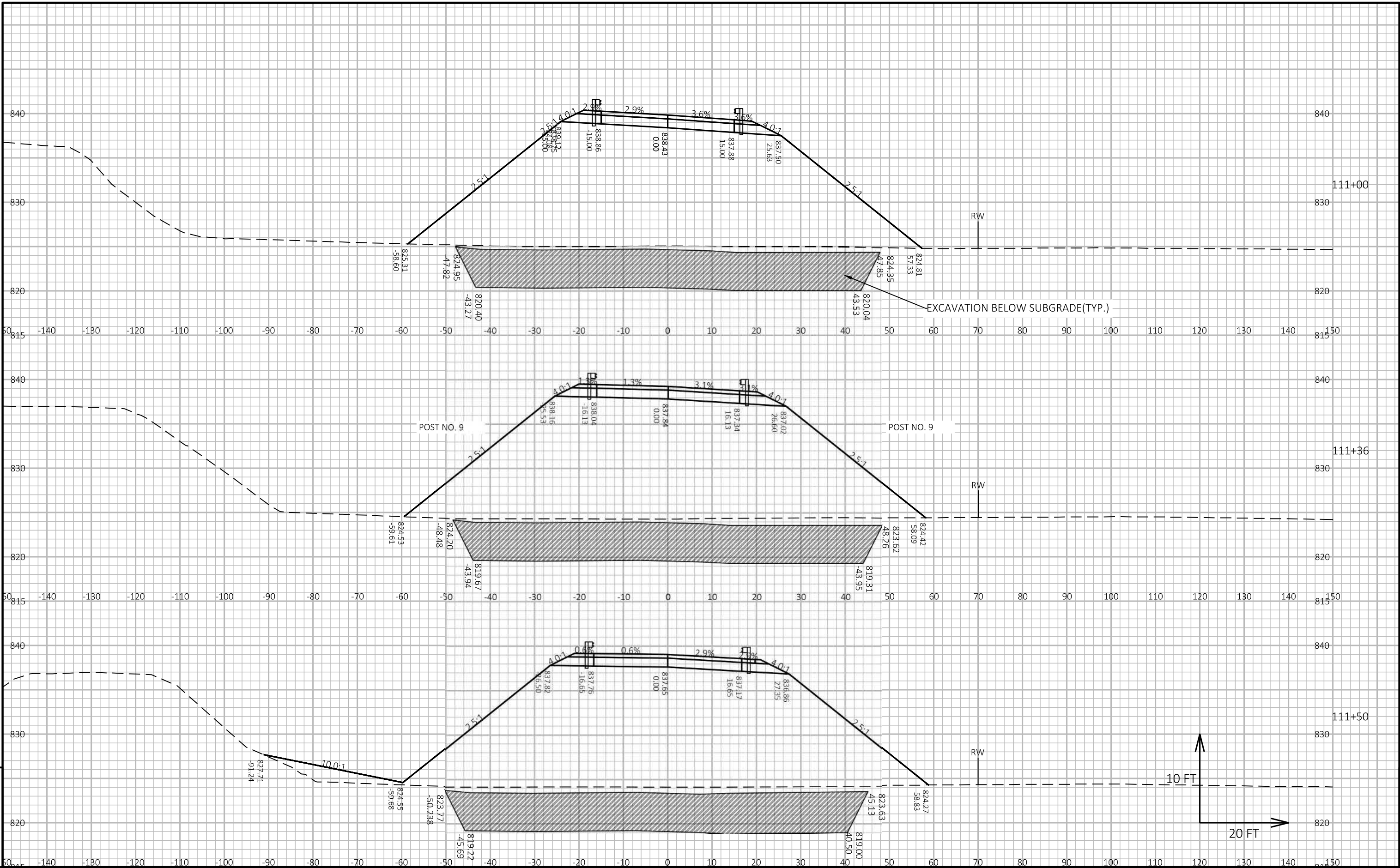


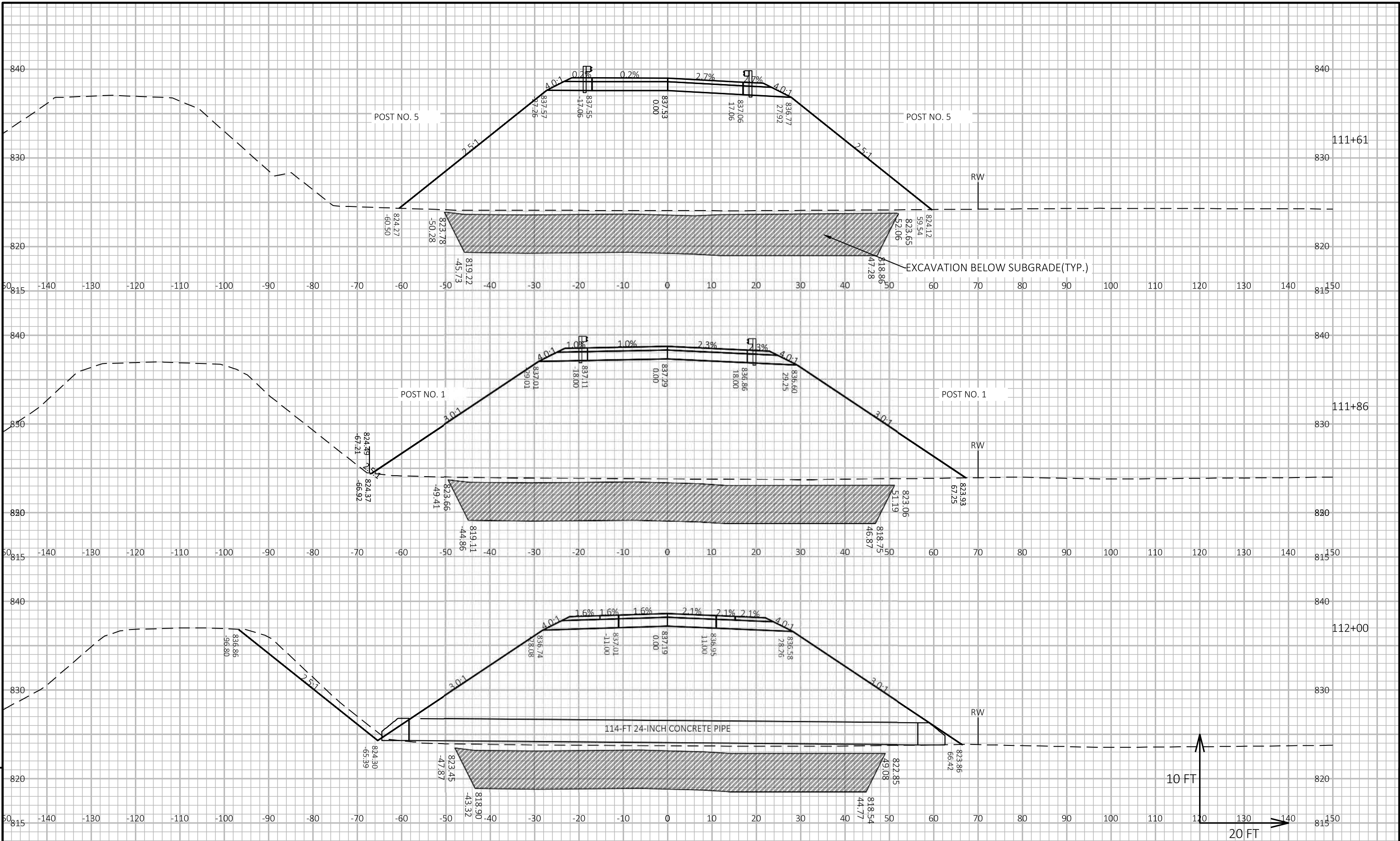


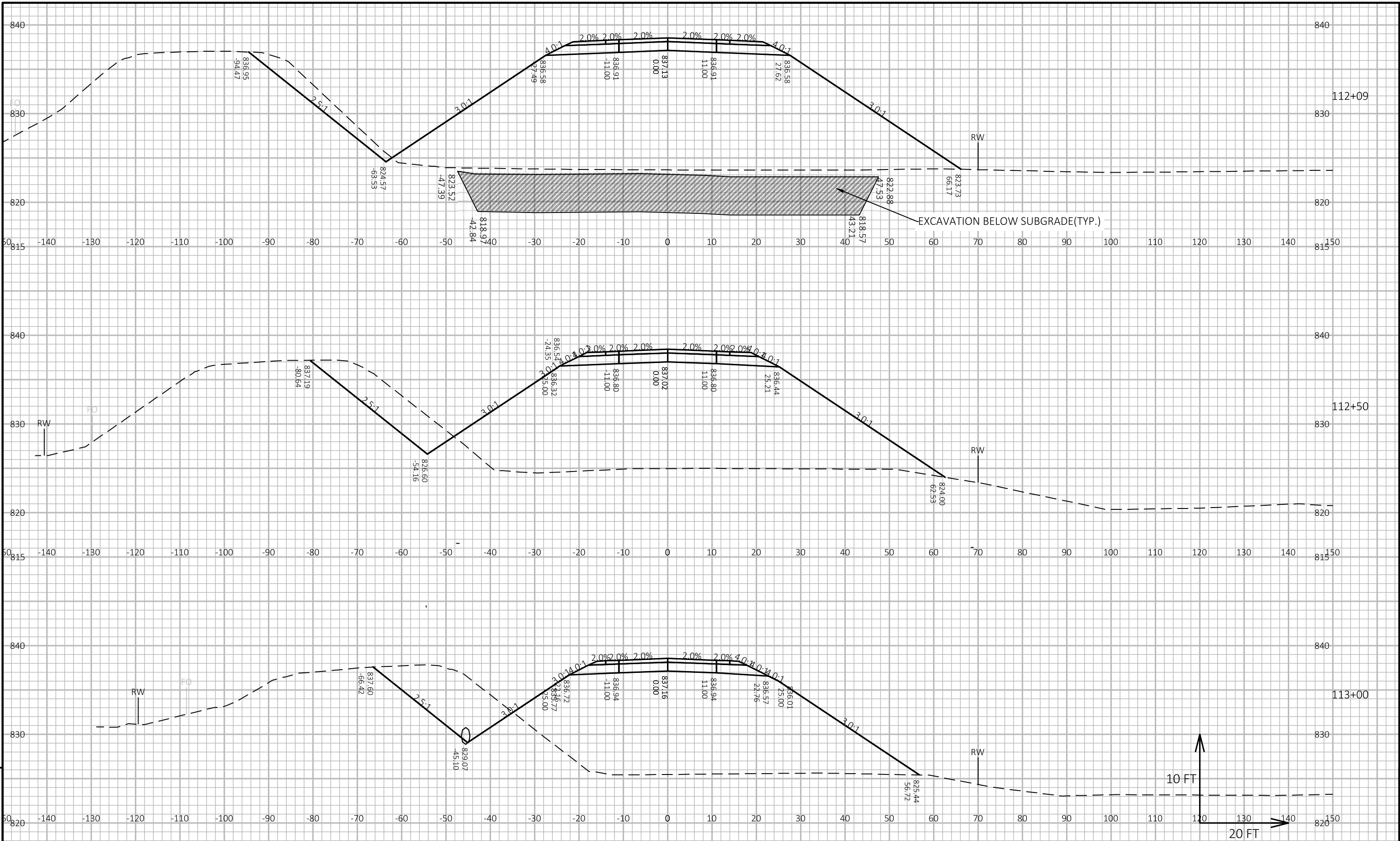


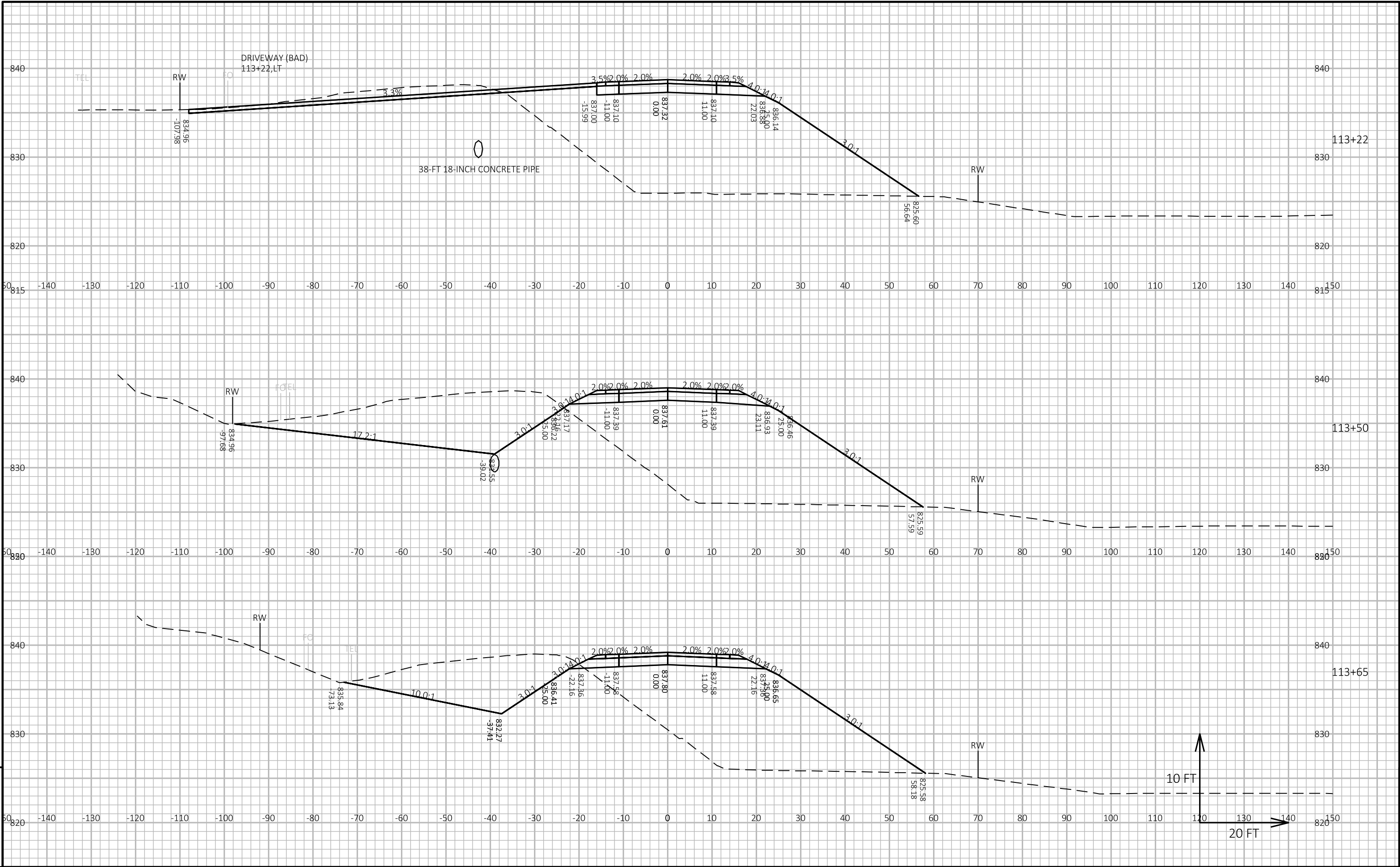


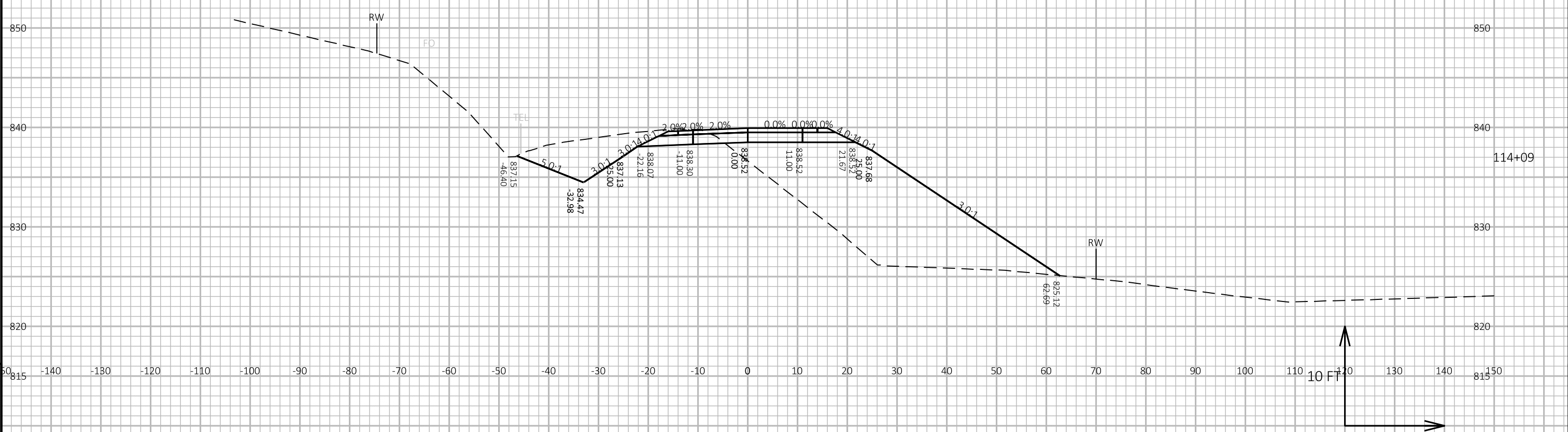
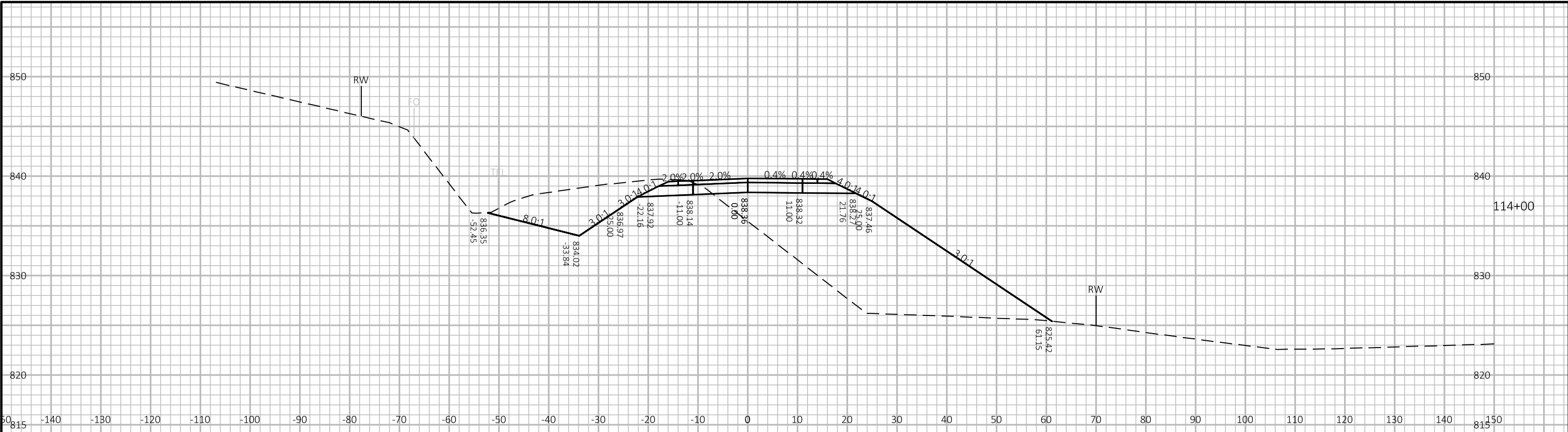


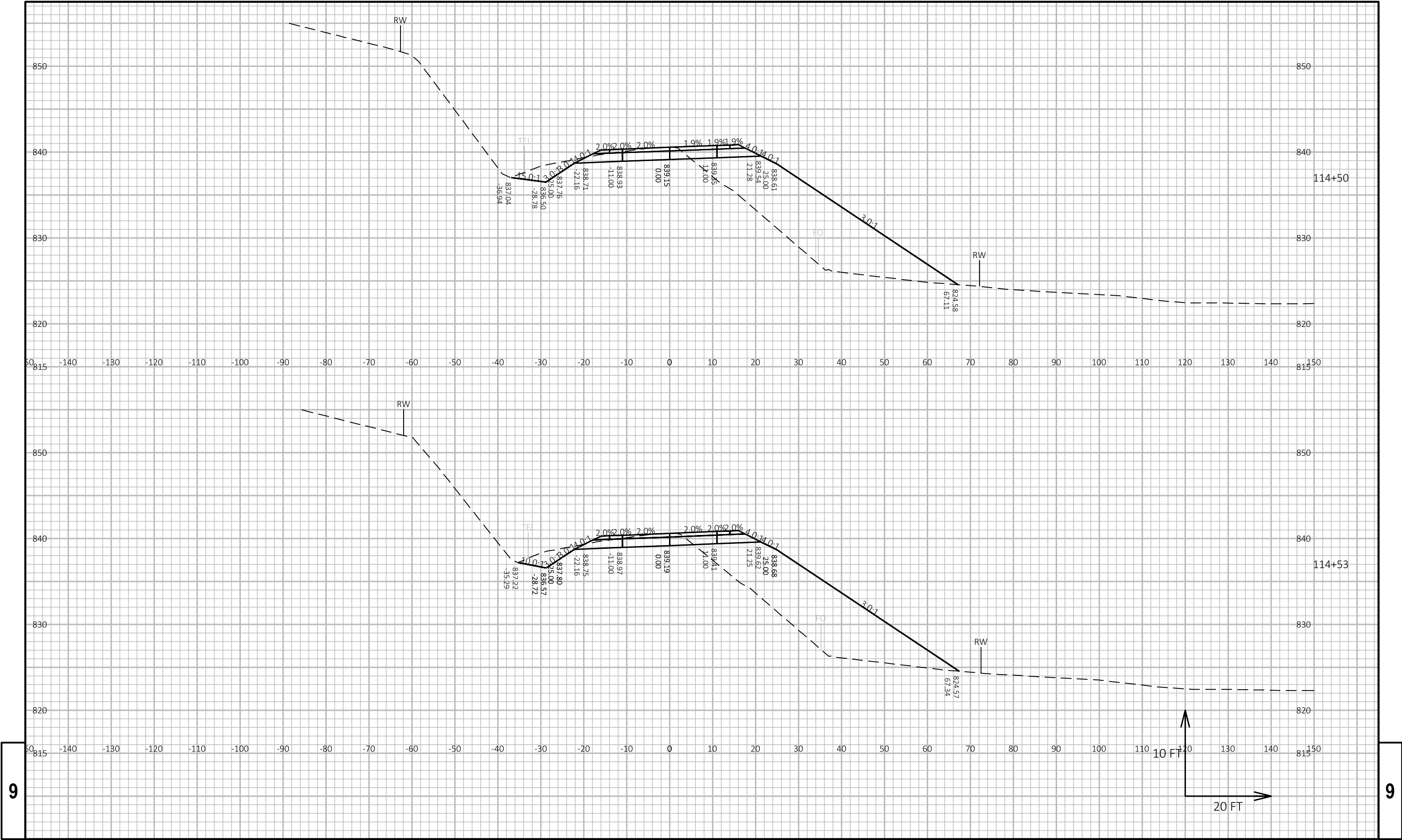


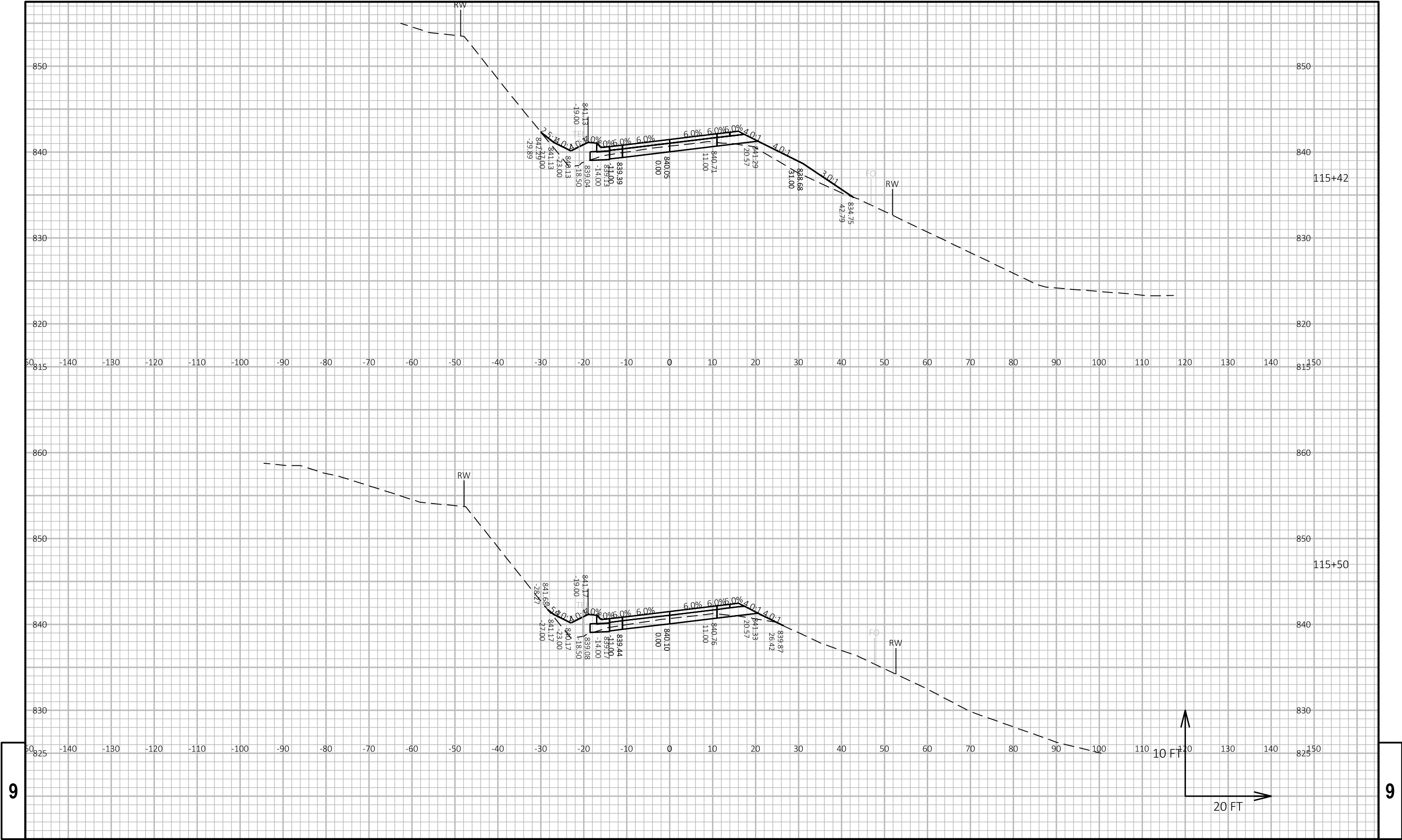












PROJECT NO: 5667-00-75

HWY: CTH Q

COUNTY: GRANT

CROSS SECTIONS: CTH Q

SHEET

E

FILE NAME : \\MSA-PS.COM\F5\PROJECT\03\03405\03405011\CADD\SHEETSPLAN\090201-XS EXTENDED SV.DWG
LAYOUT NAME - 090228-xs

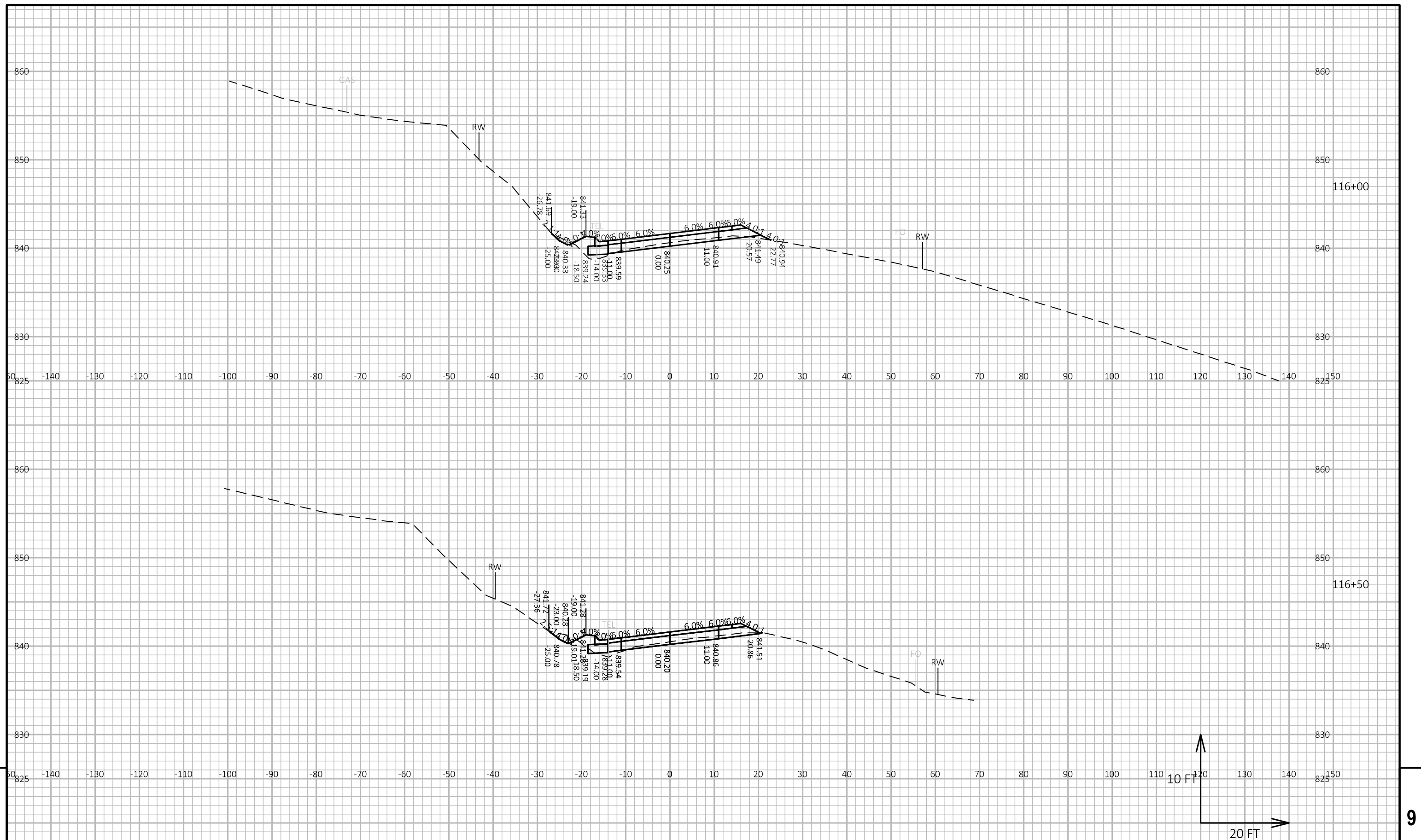
PLOT DATE : 10/18/2021 12:00 PM

PLOT BY : SIMON SCHIFERL

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADD'S SHEET 49



PROJECT NO:	5667-00-75
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HWY: CTH Q

COUNTY: GRANT

CROSS SECTIONS: CTH Q

SHEET

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FILE NAME : \\MSA-PS.COM\F\PROJECT\03\03405\03405011\CADD\SHEETSPLAN\090201-XS EXTENDED SV.DWG
LAYOUT NAME - 090229-xs

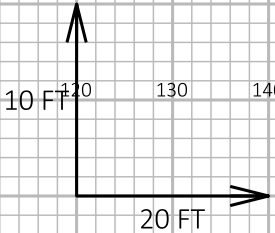
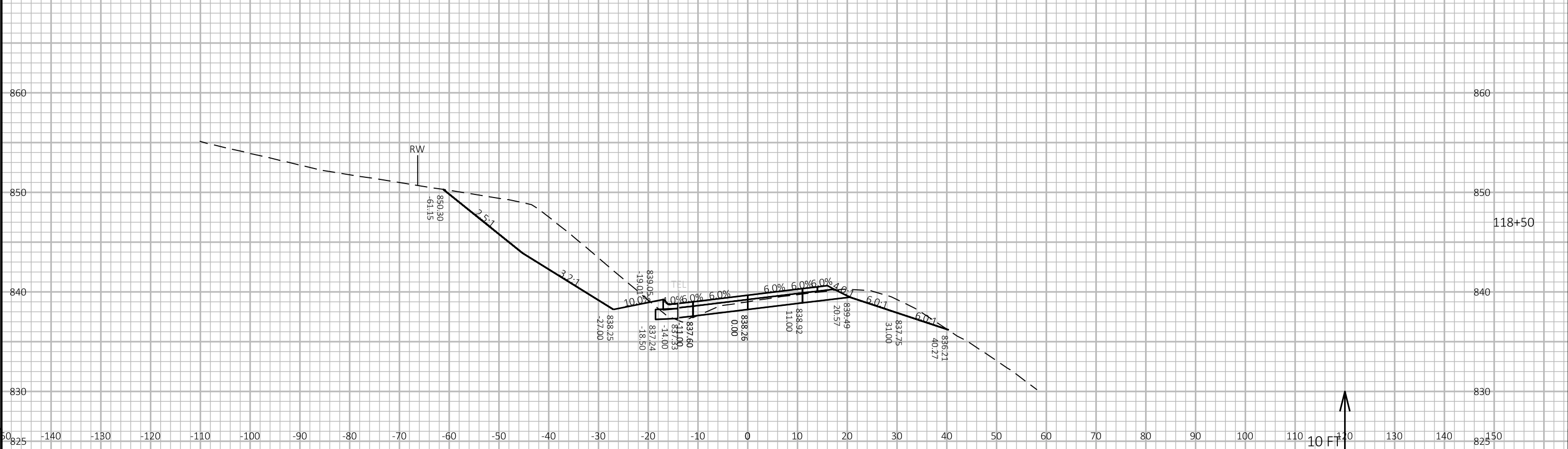
PLOT DATE : 10/18/2021 12:00 PM

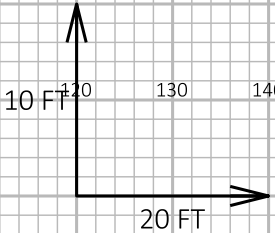
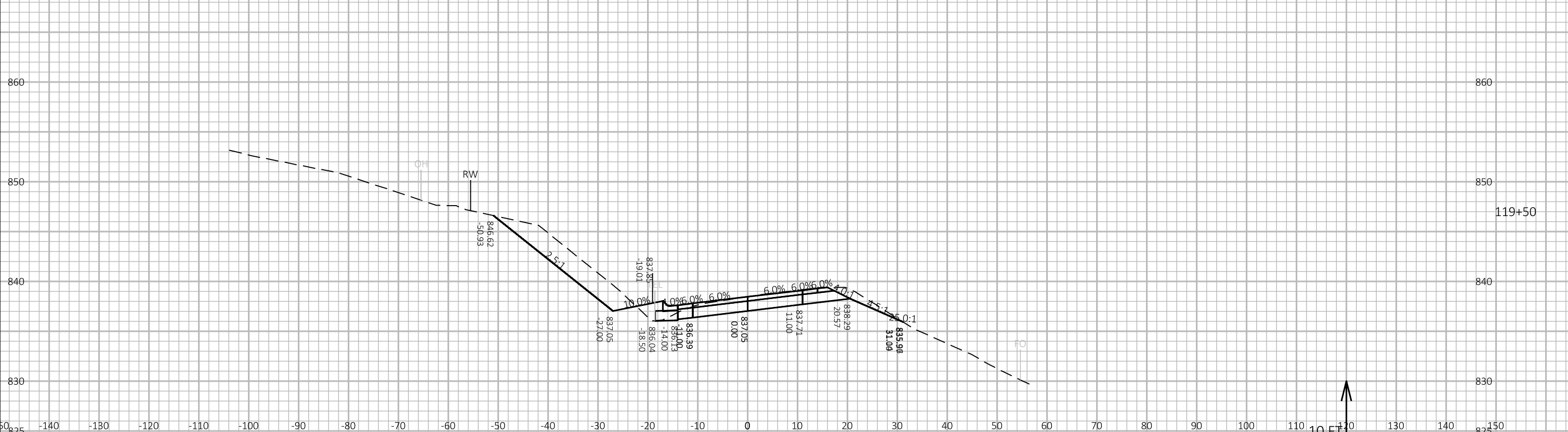
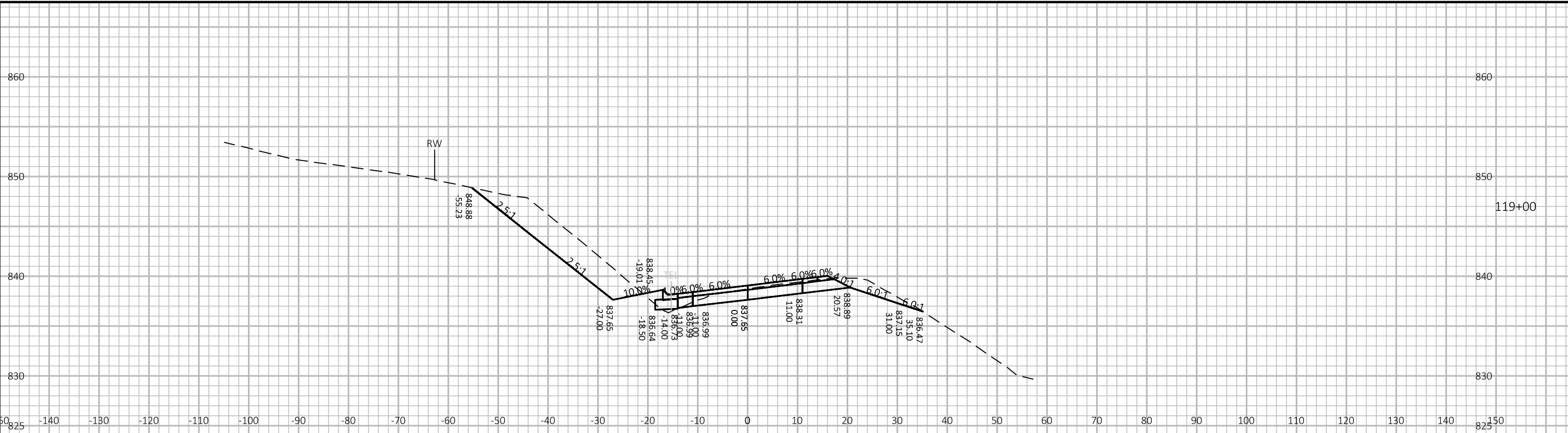
PLOT BY : SIMON SCHIFERL

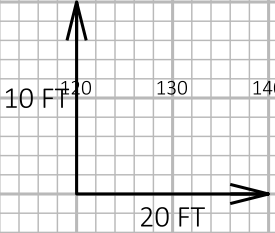
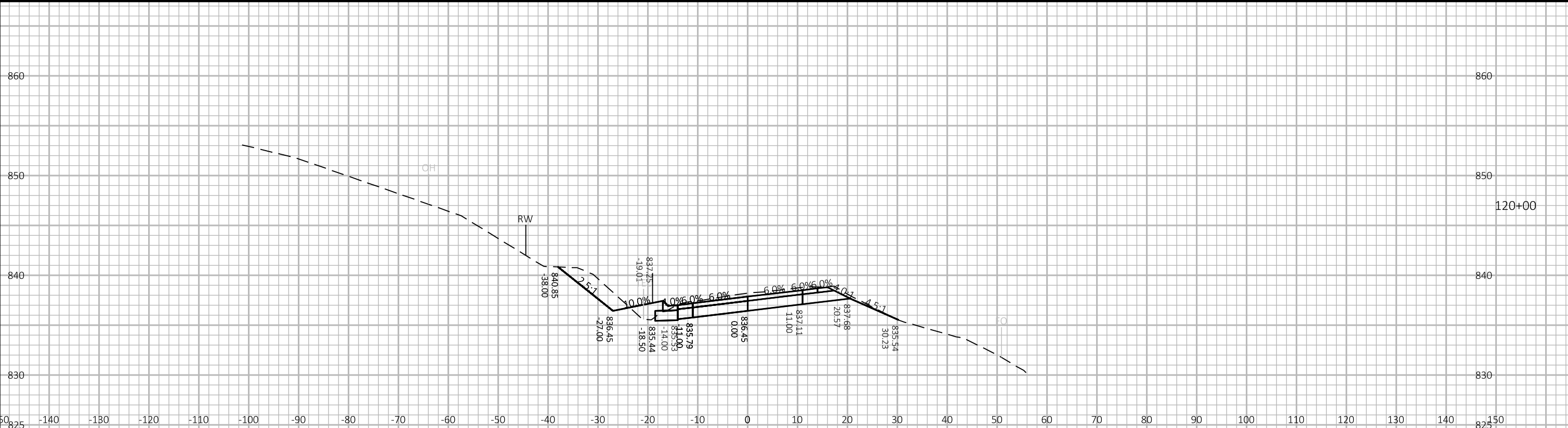
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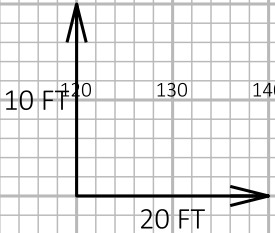
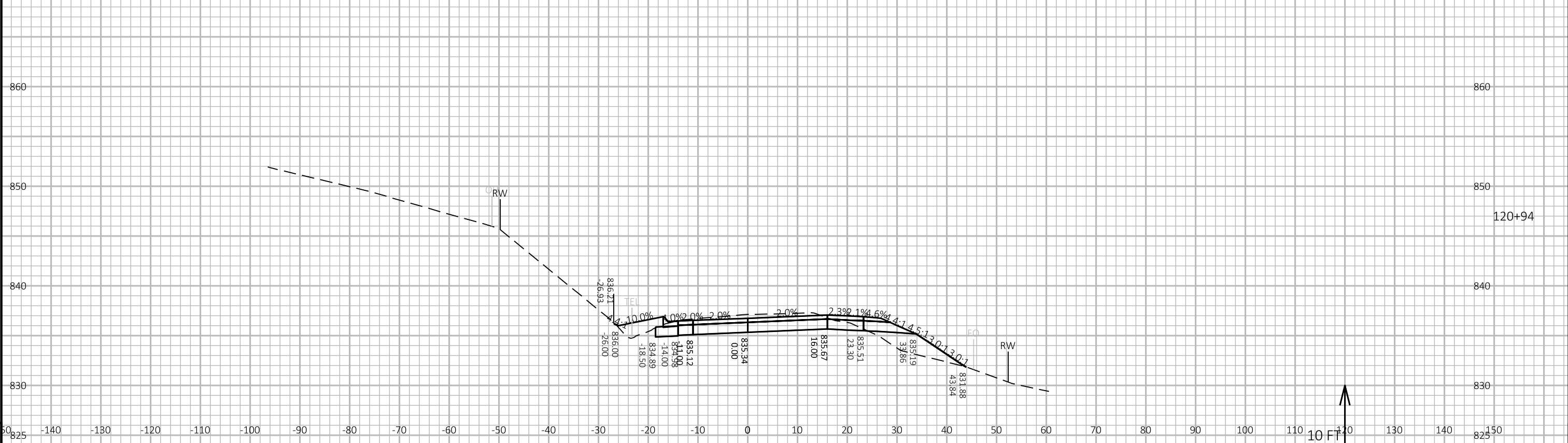
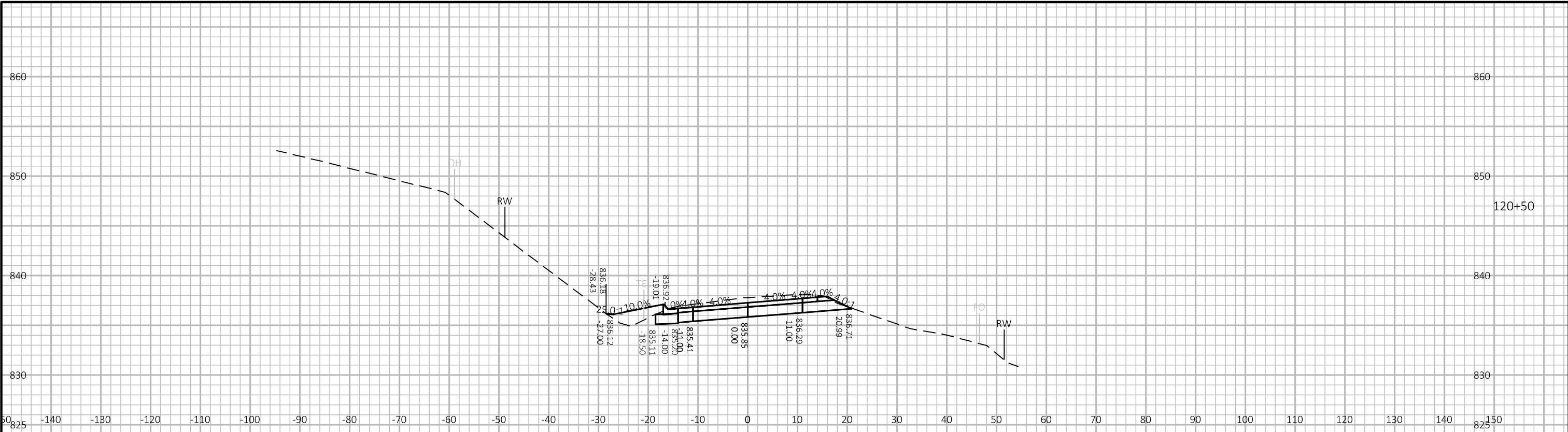
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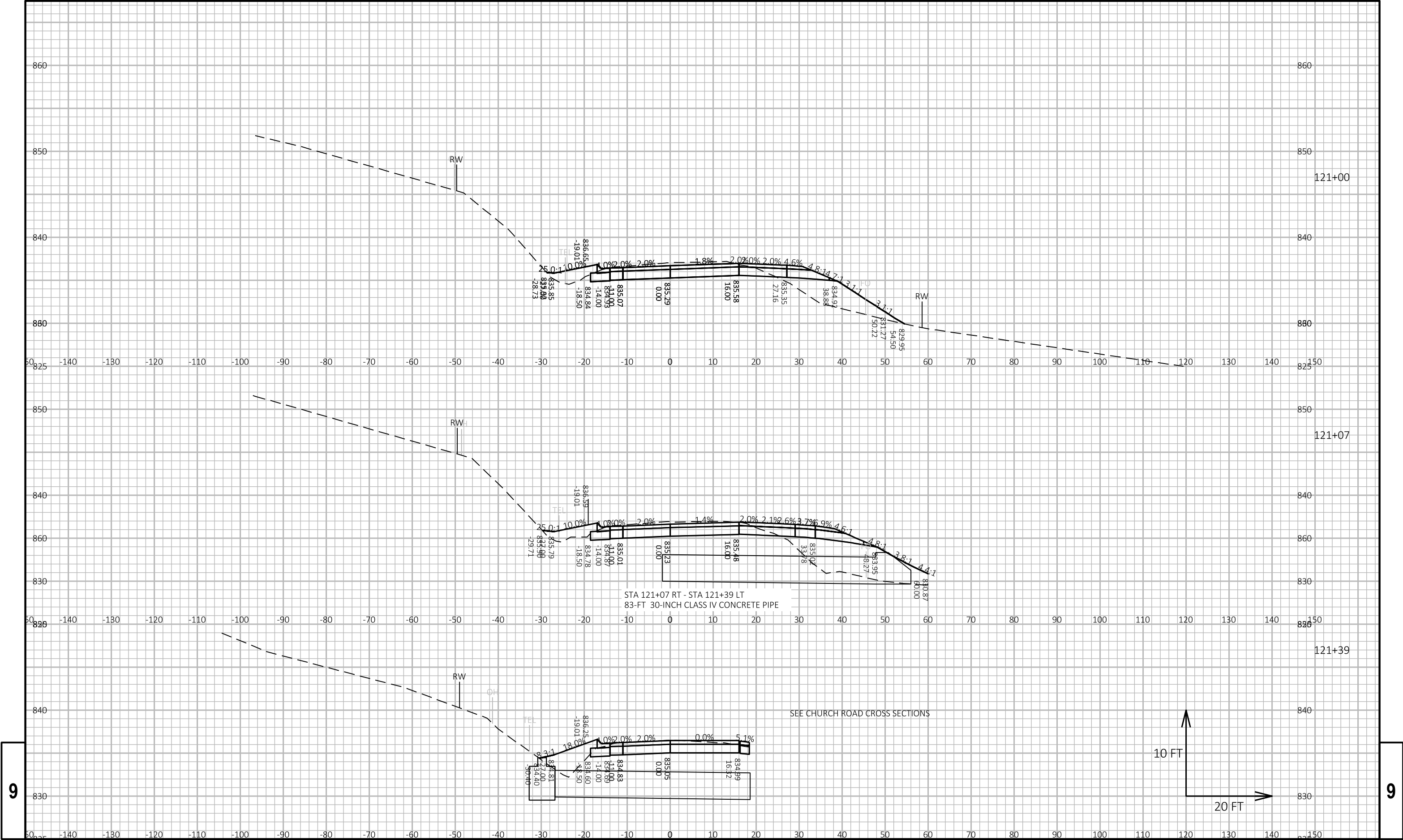
WISDOT/CADDS SHEET 49





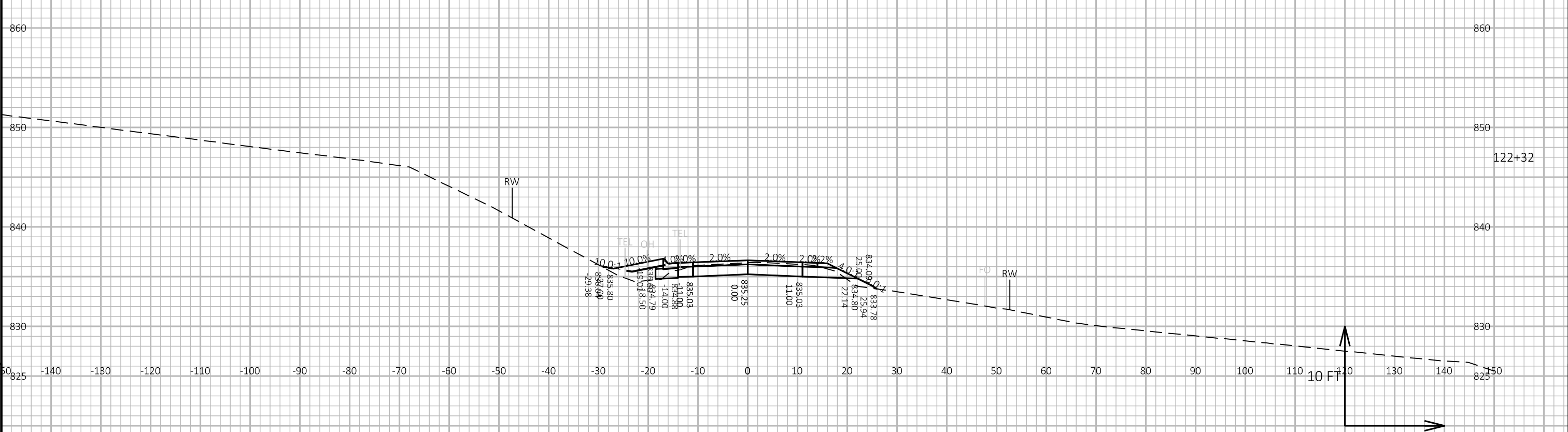
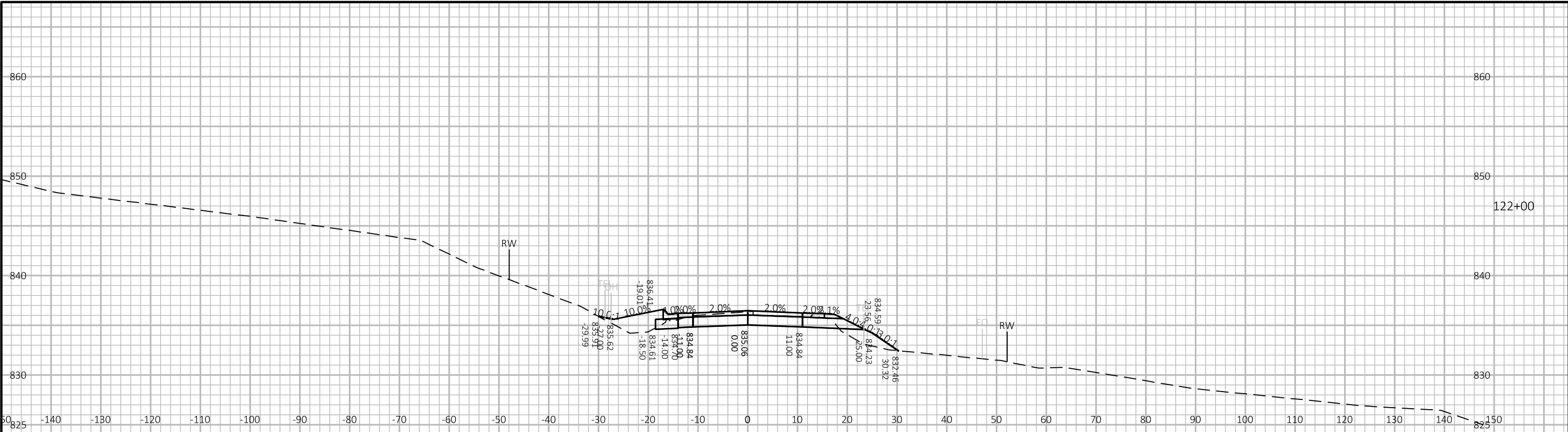


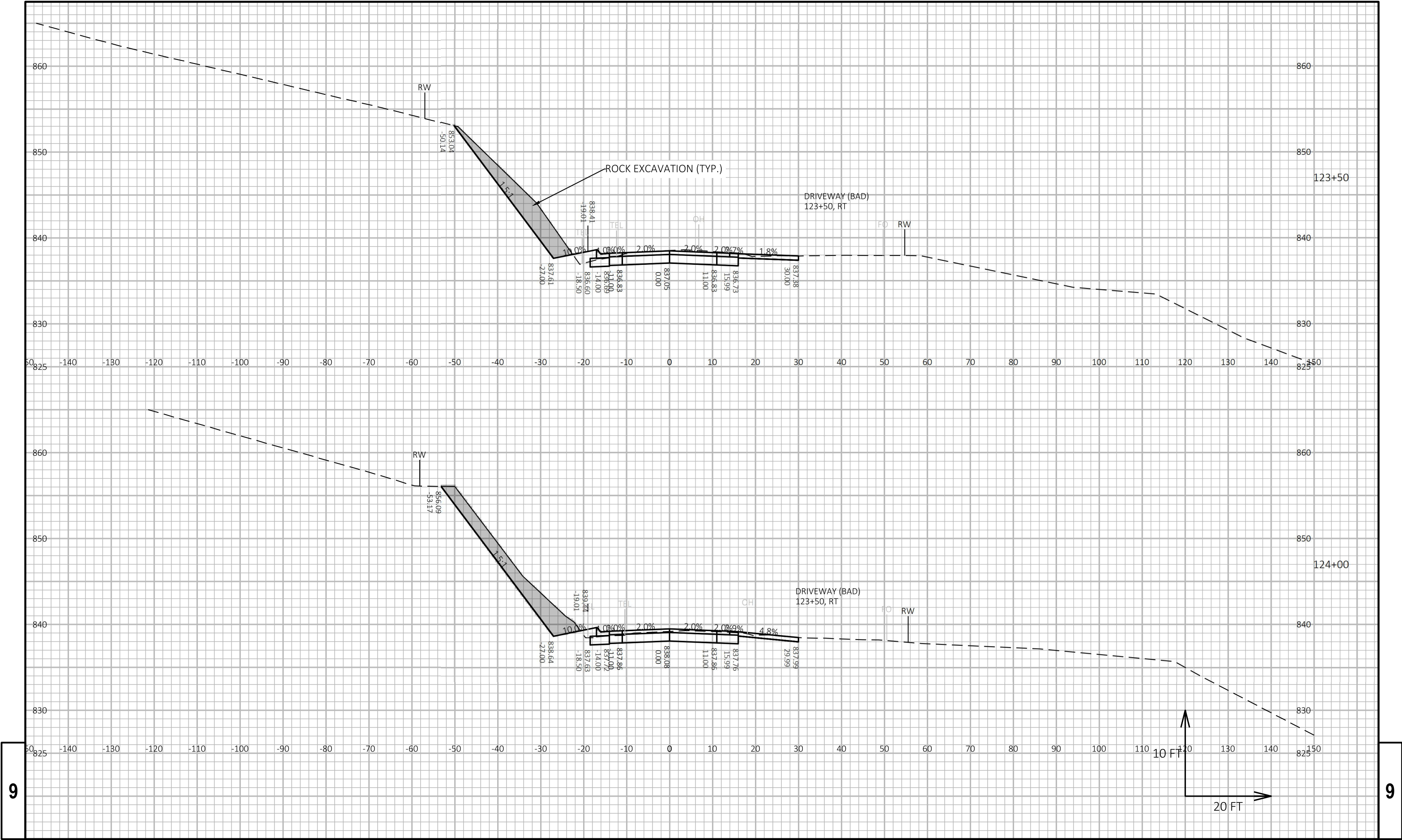


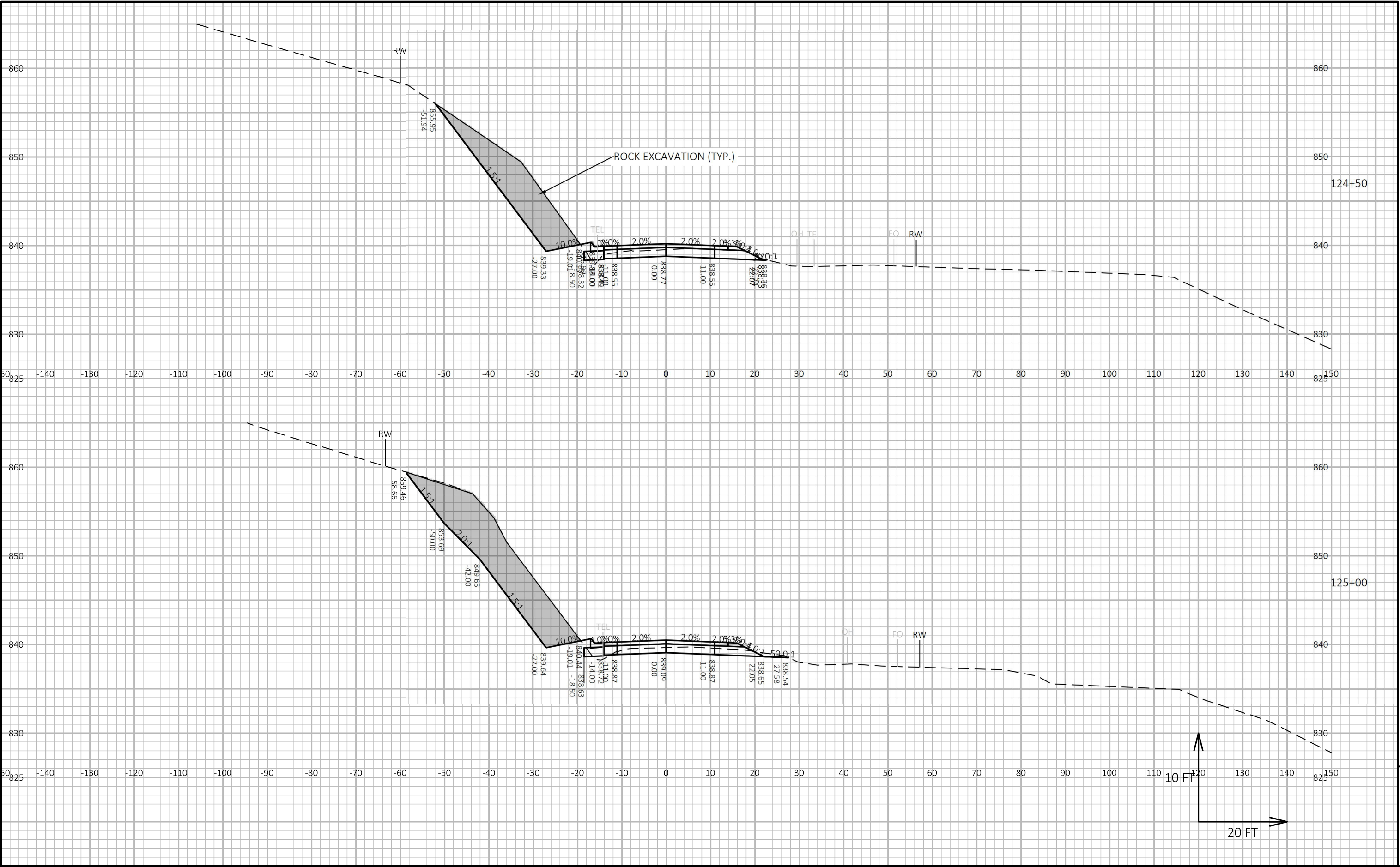


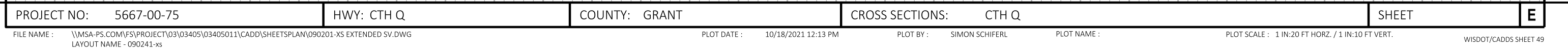
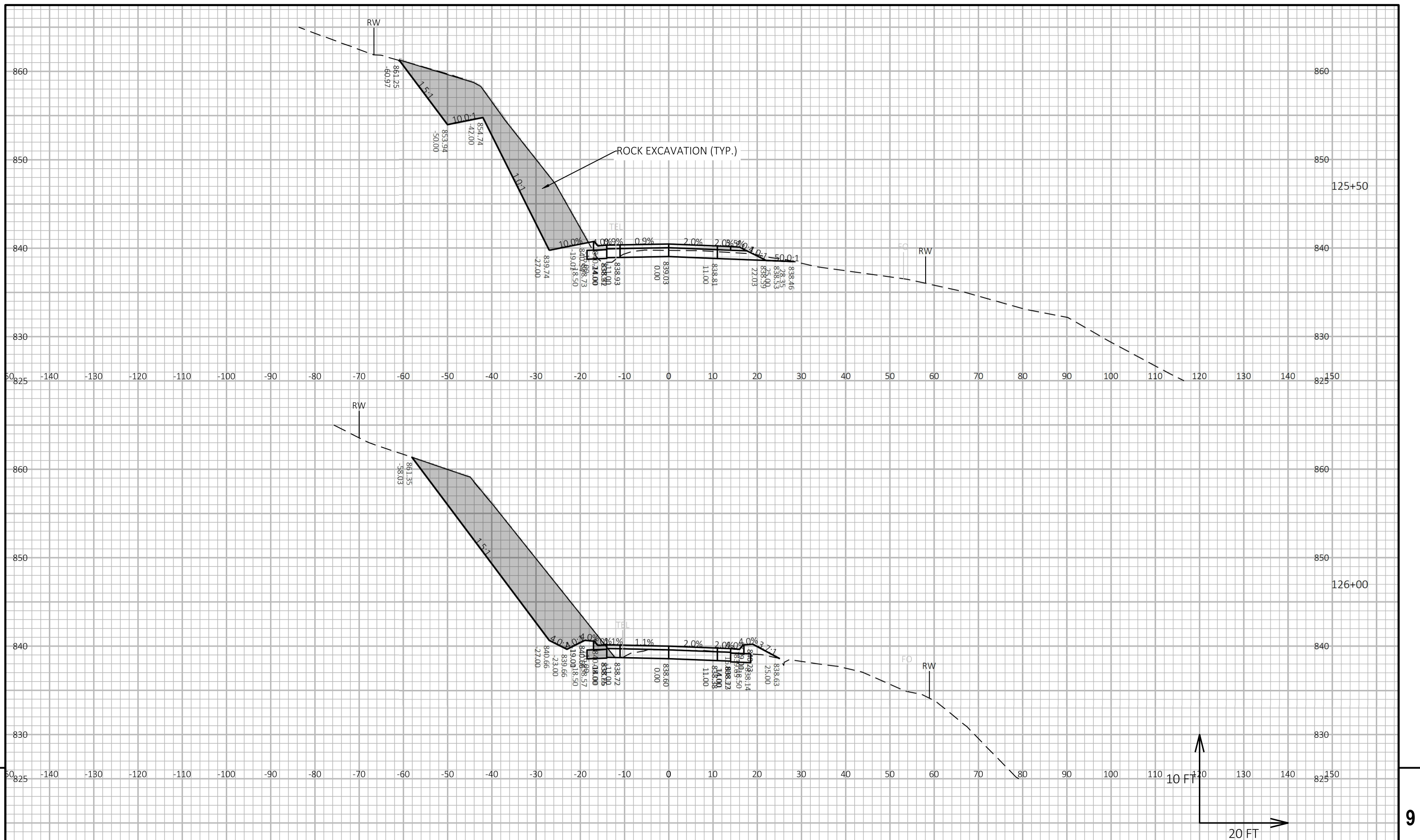
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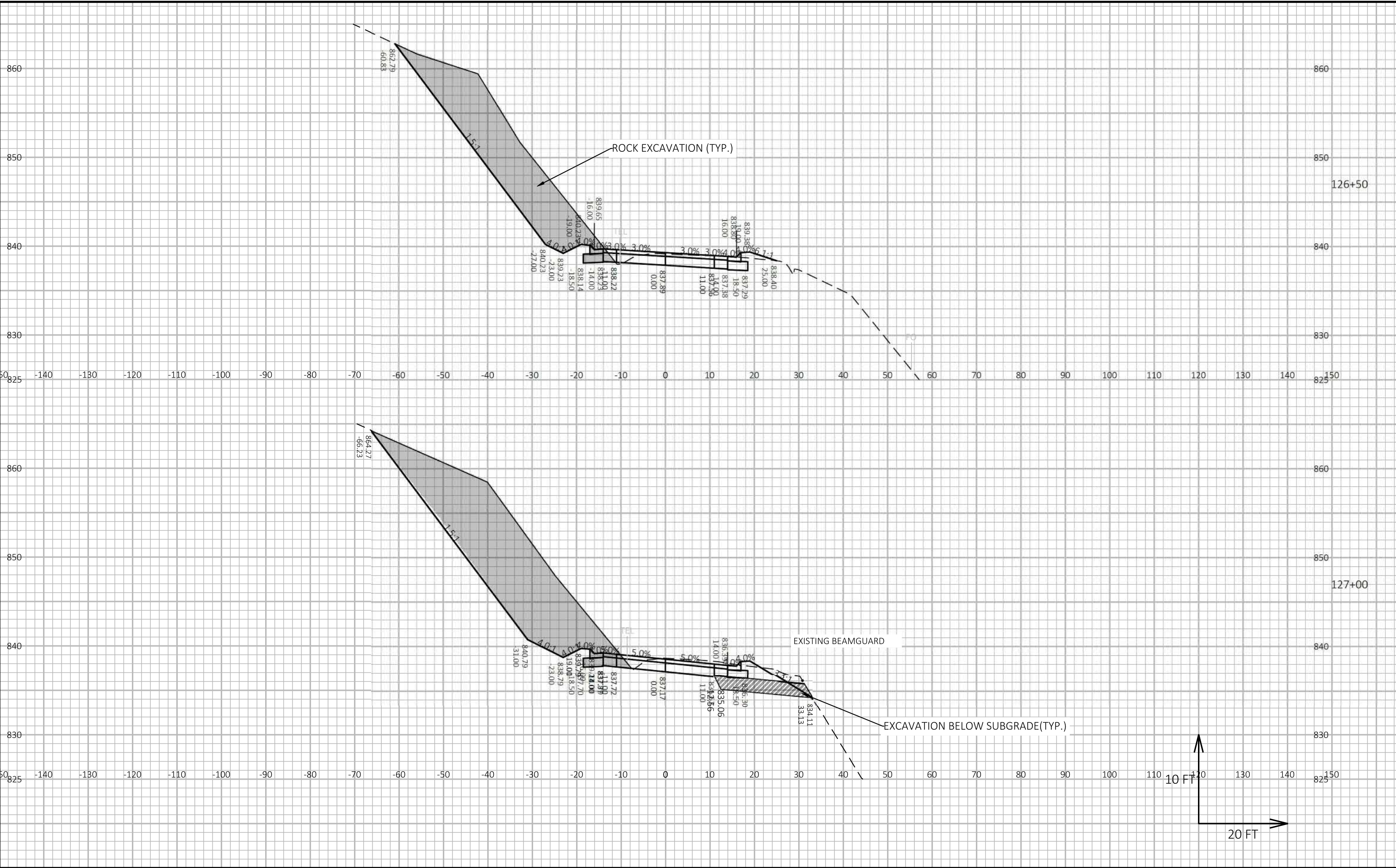
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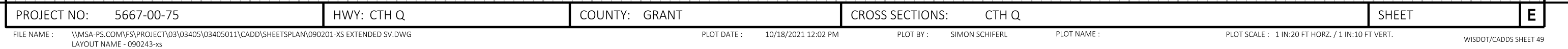
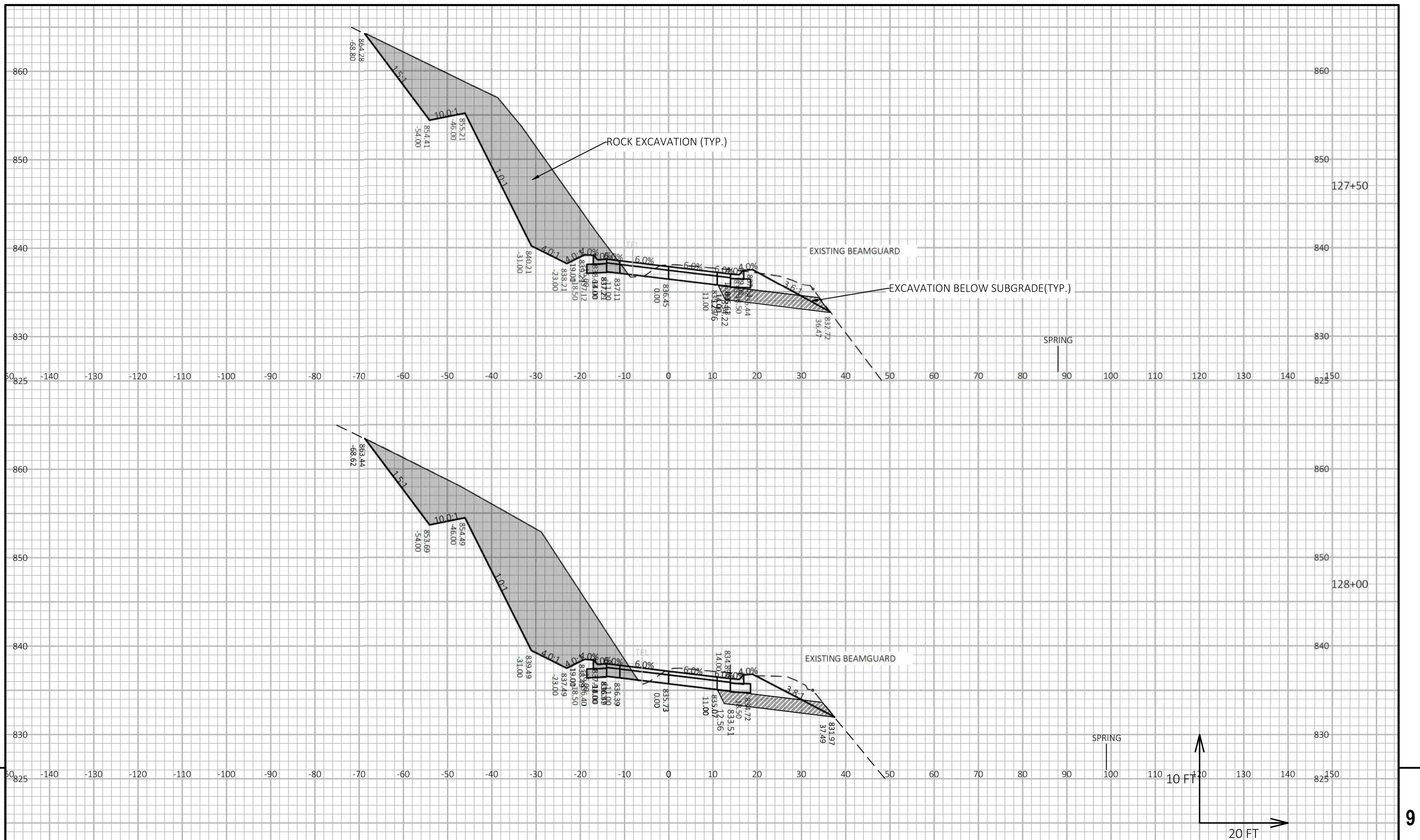


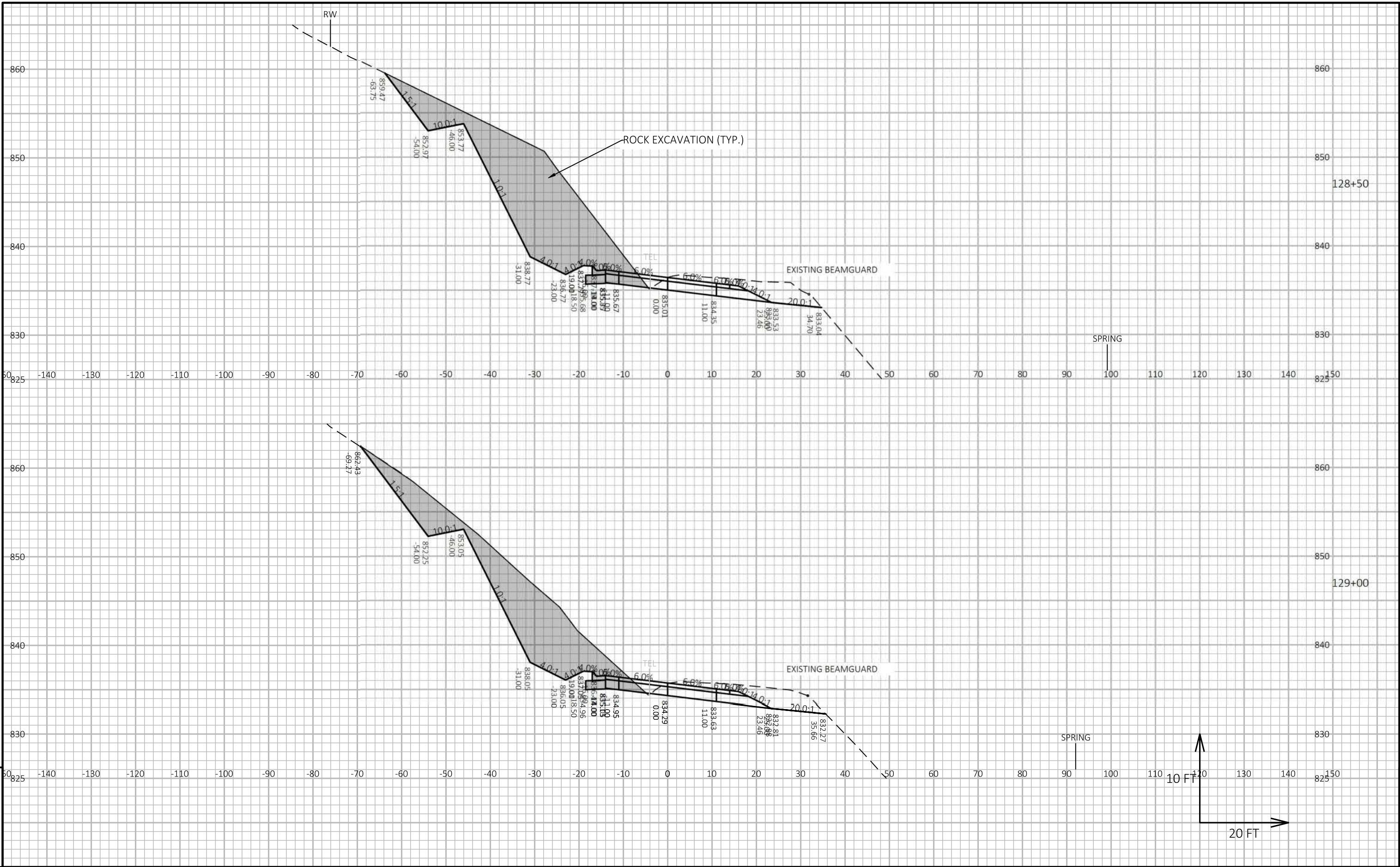


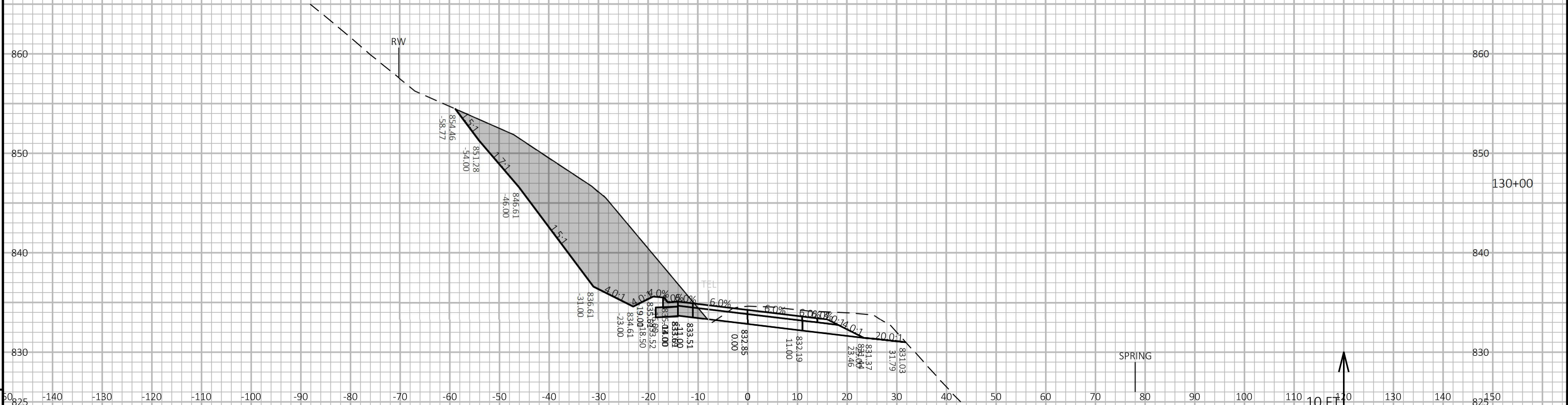
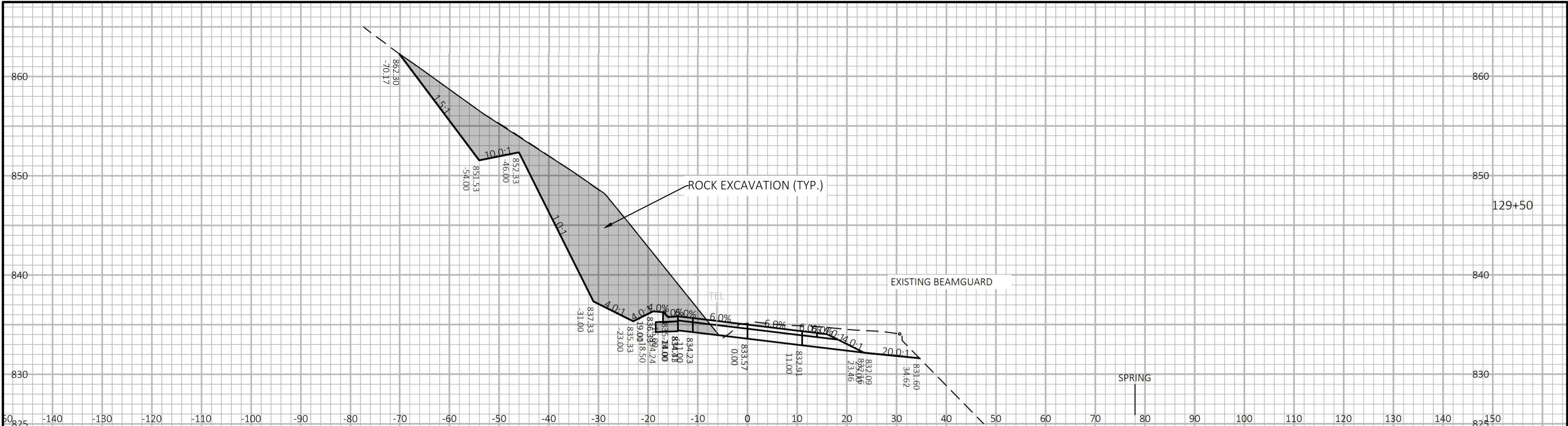


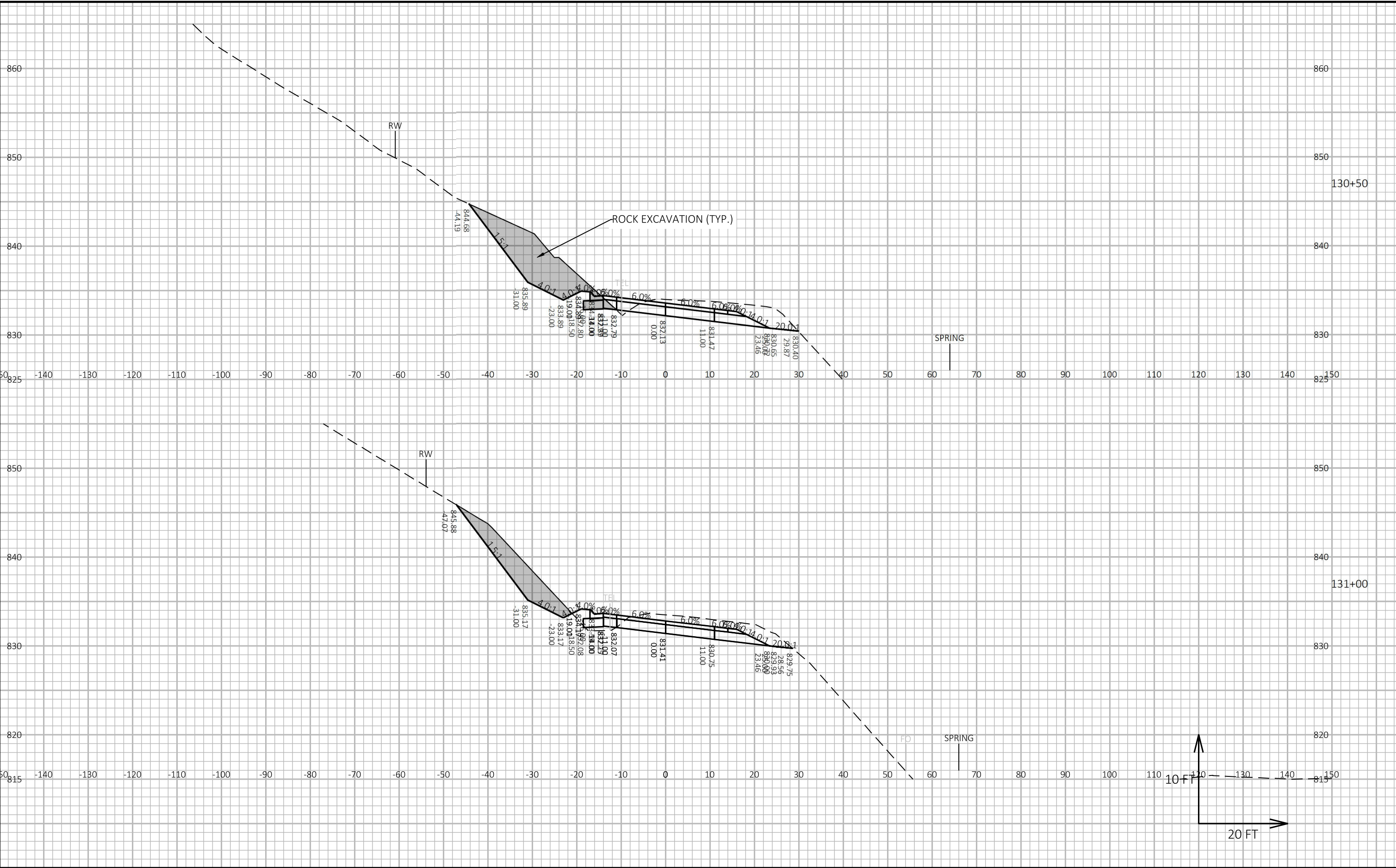


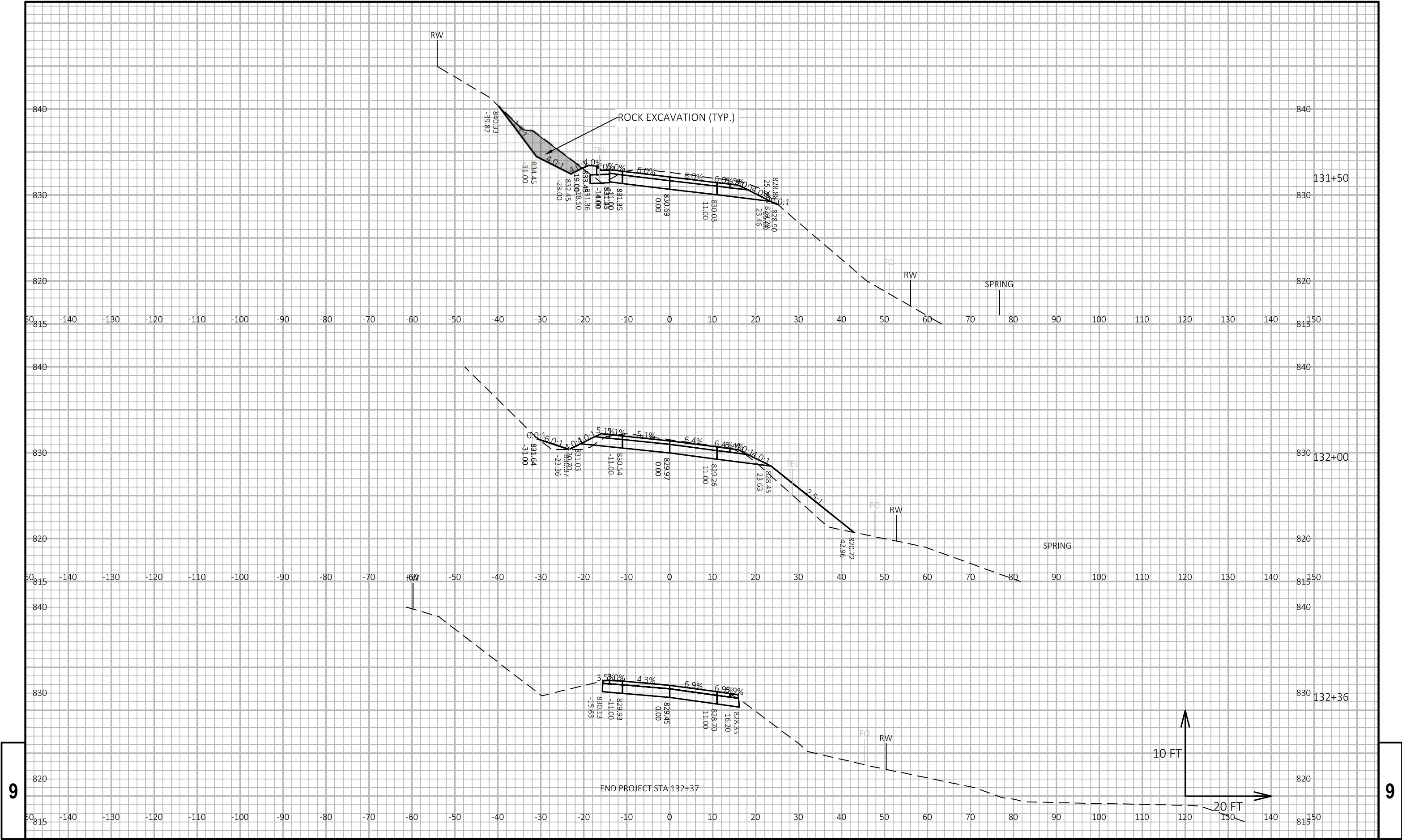








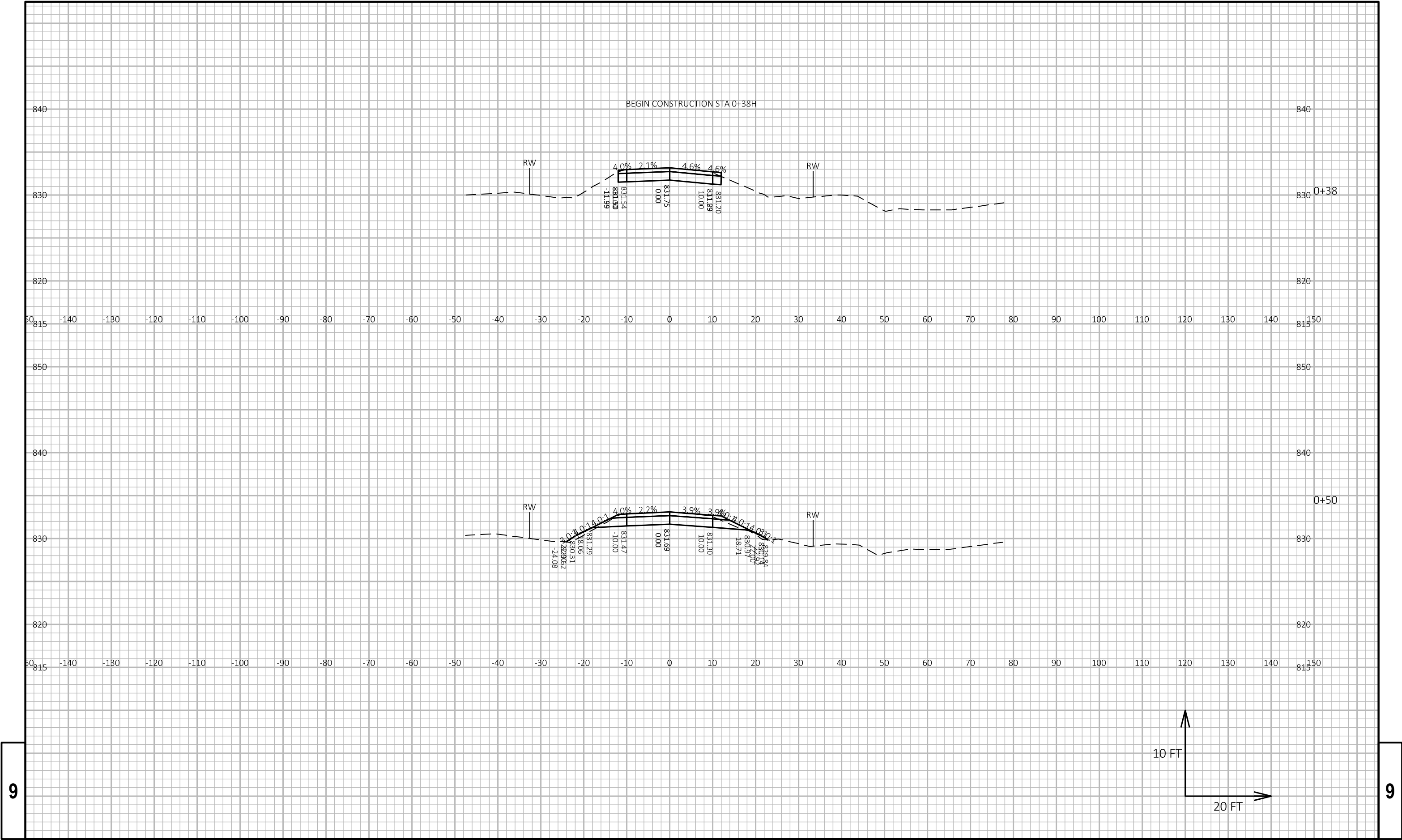




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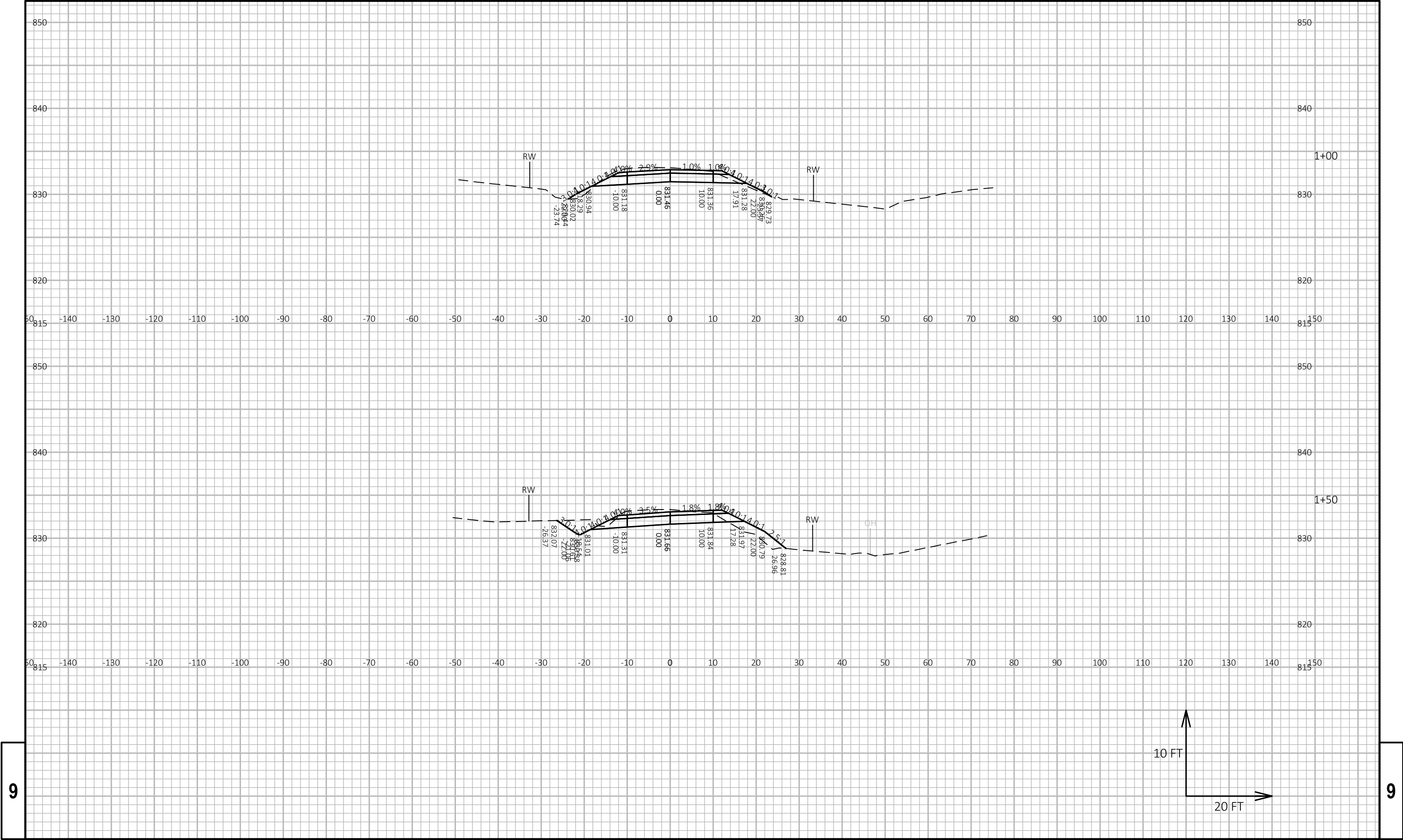
PROJECT NO: 5667-00-75	HWY: CTH Q	COUNTY: GRANT	CROSS SECTIONS: CTH Q	SHEET E
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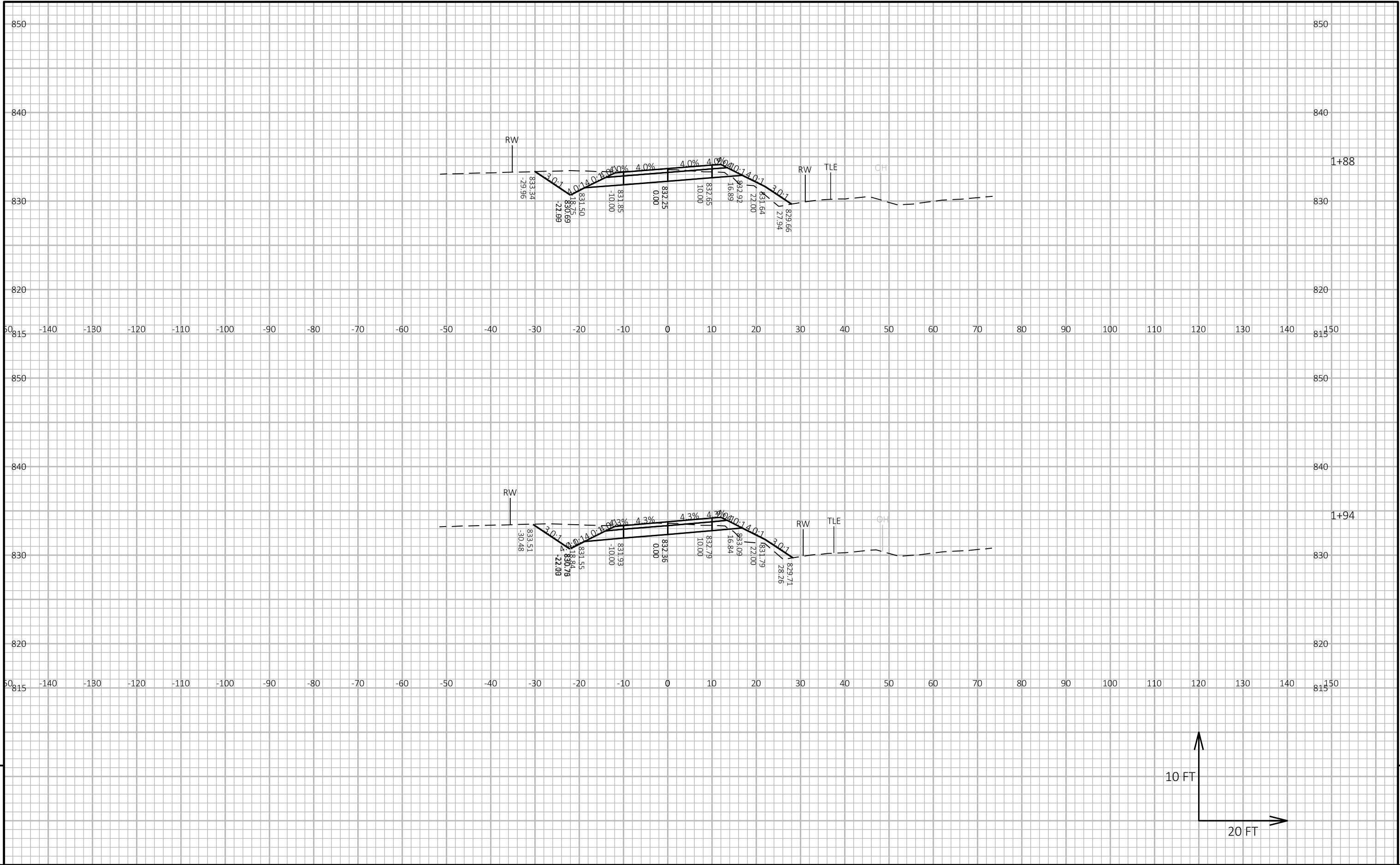
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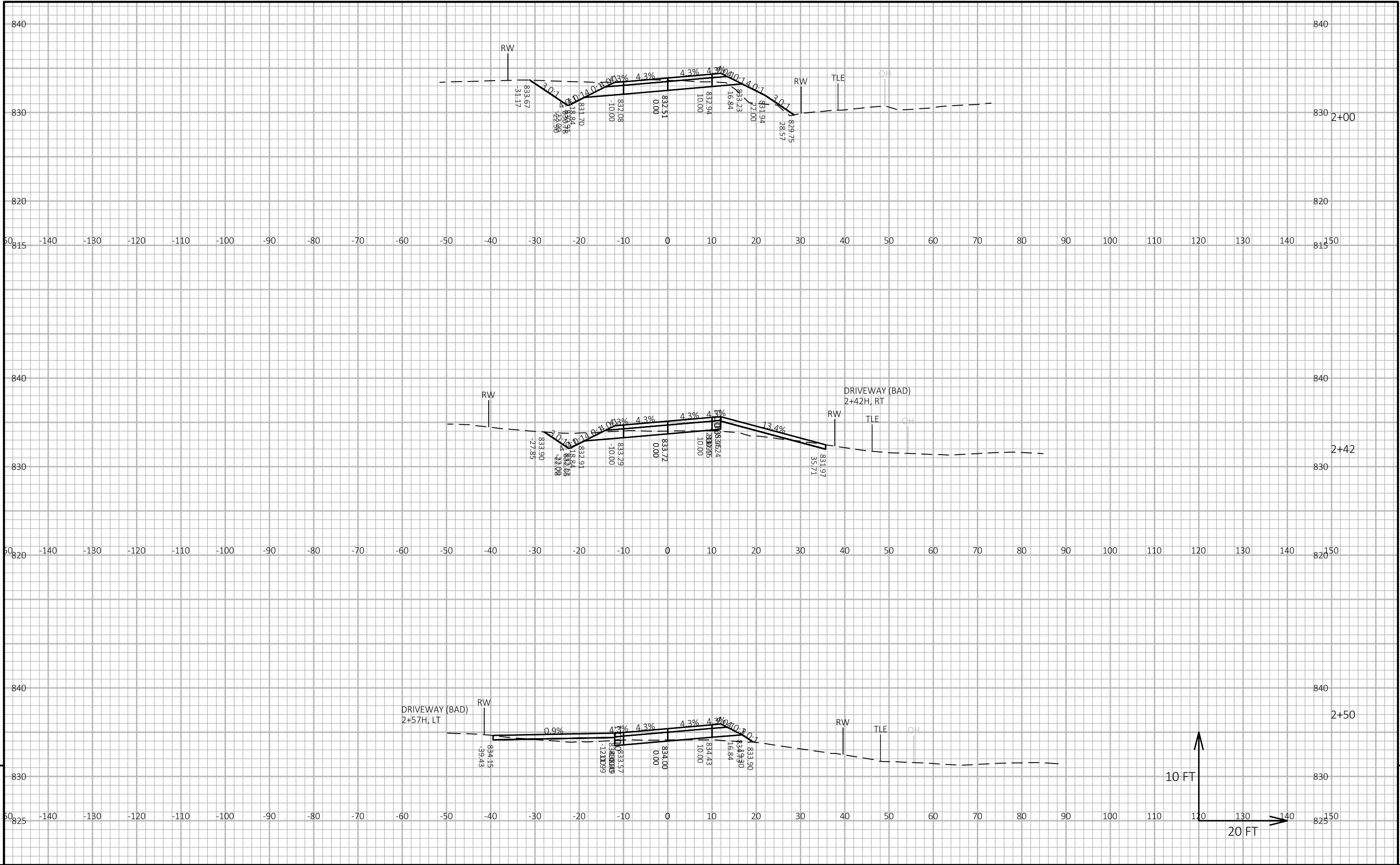
PROJECT NO: 5667-00-75	HWY: CTH Q	COUNTY: GRANT	CROSS SECTIONS: HOMER ROAD	SHEET E
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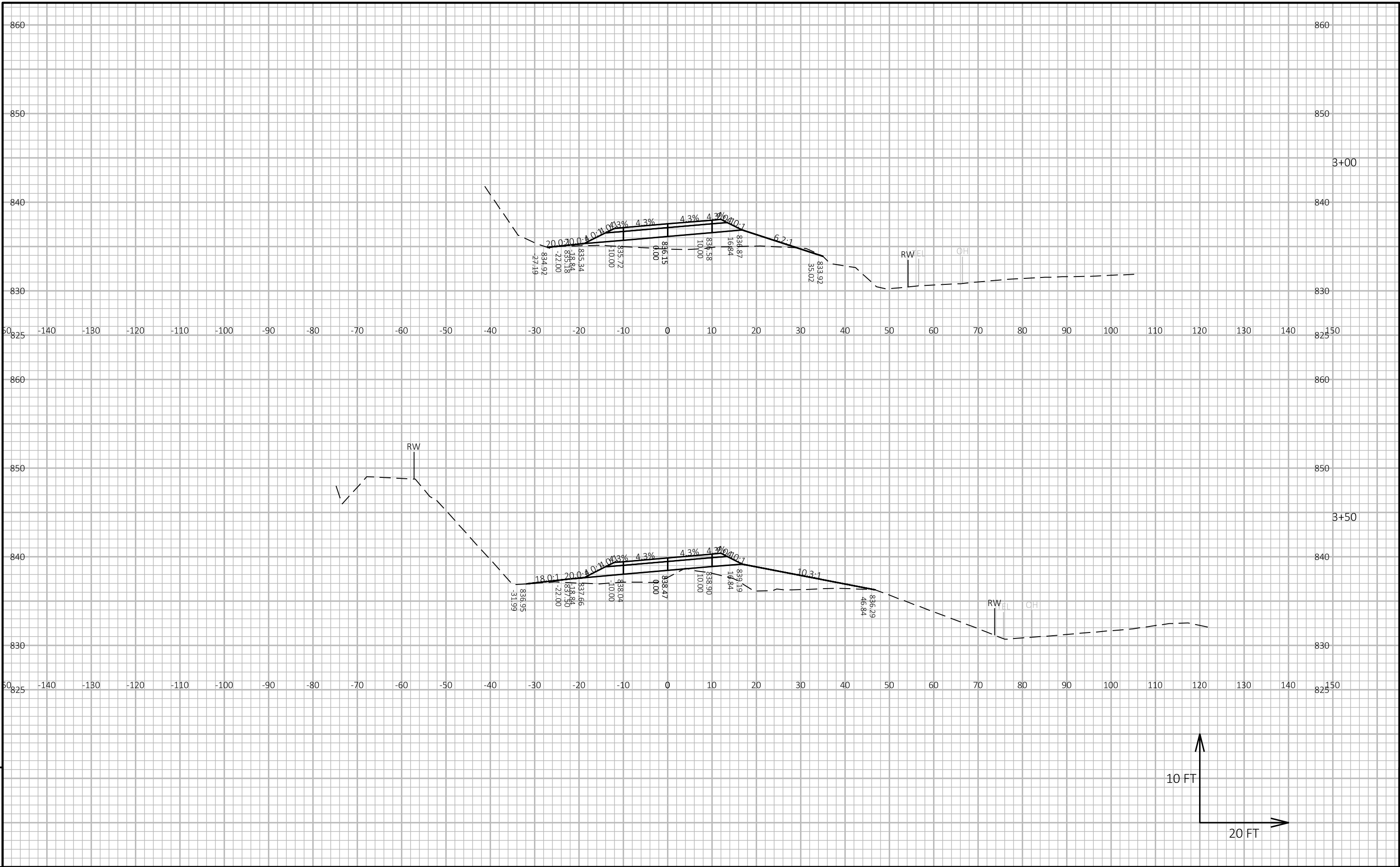


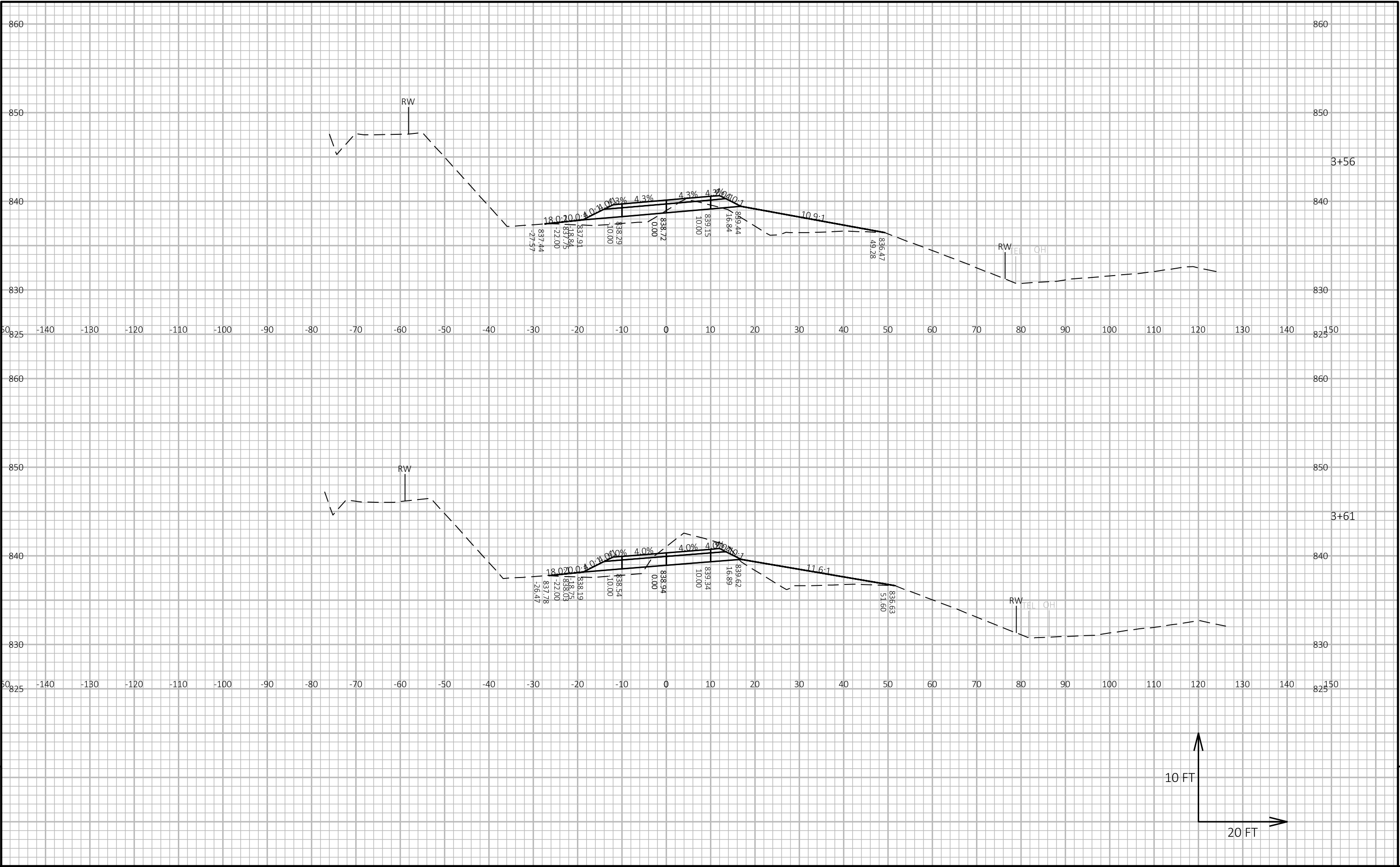
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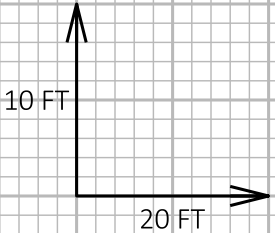
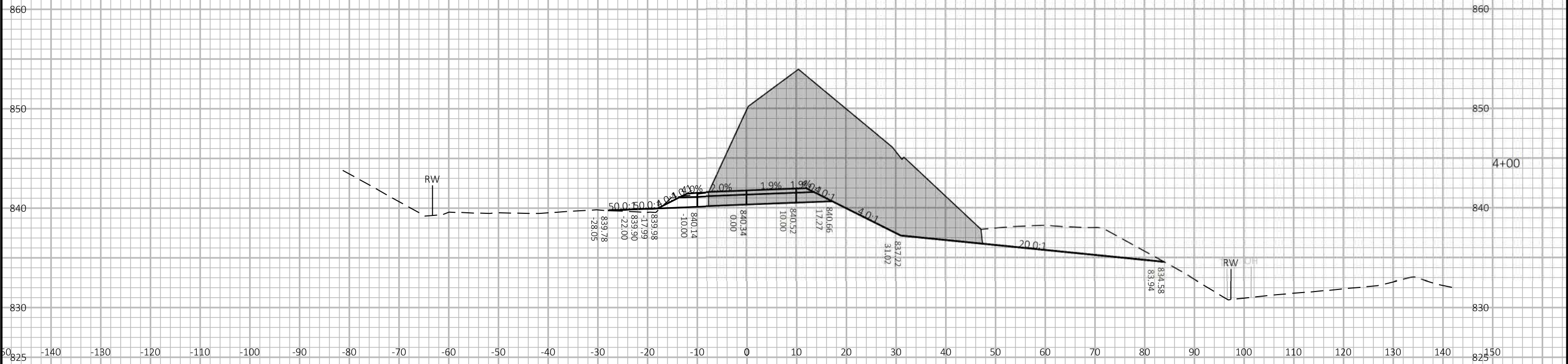
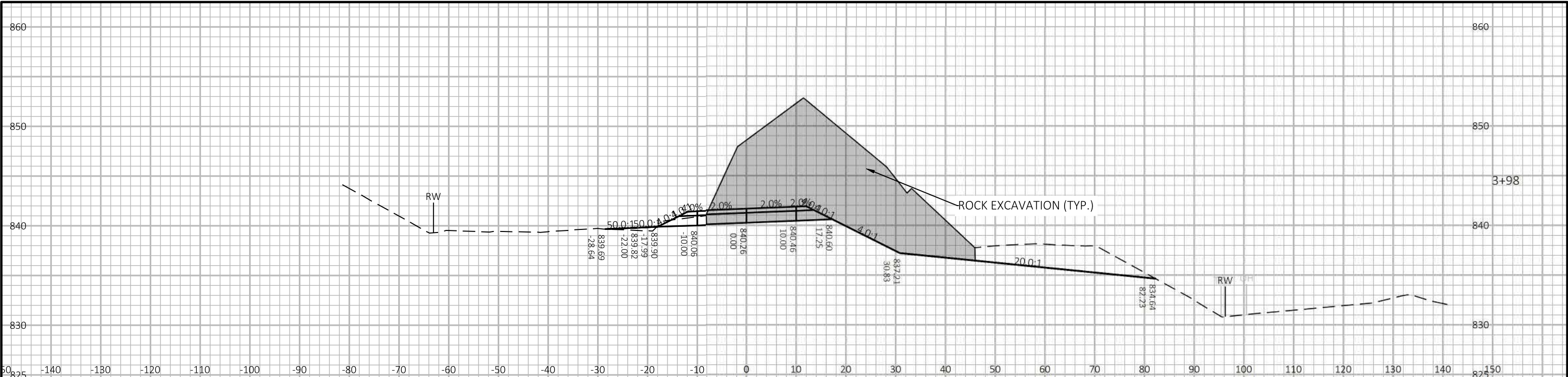






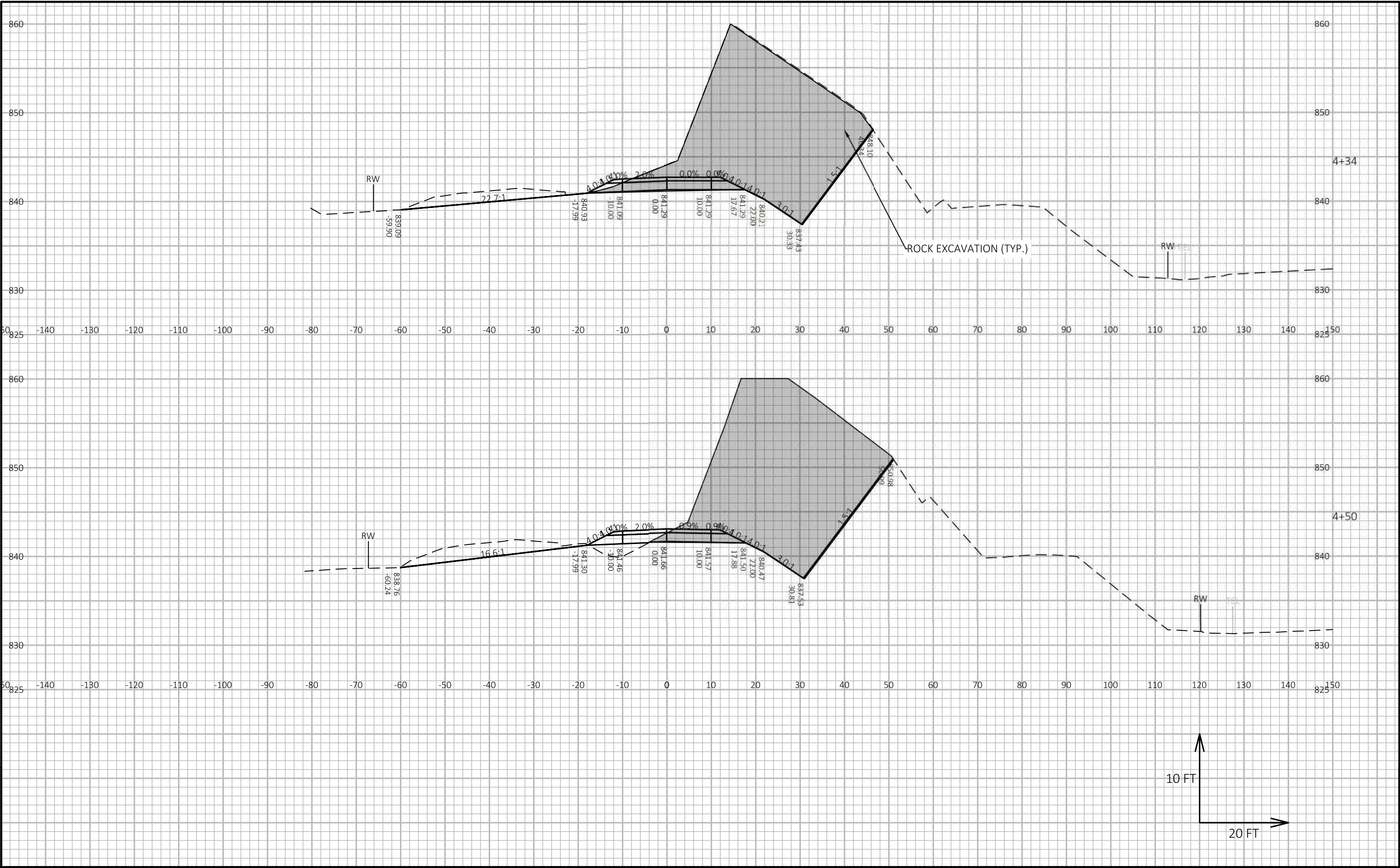
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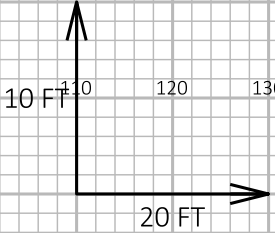
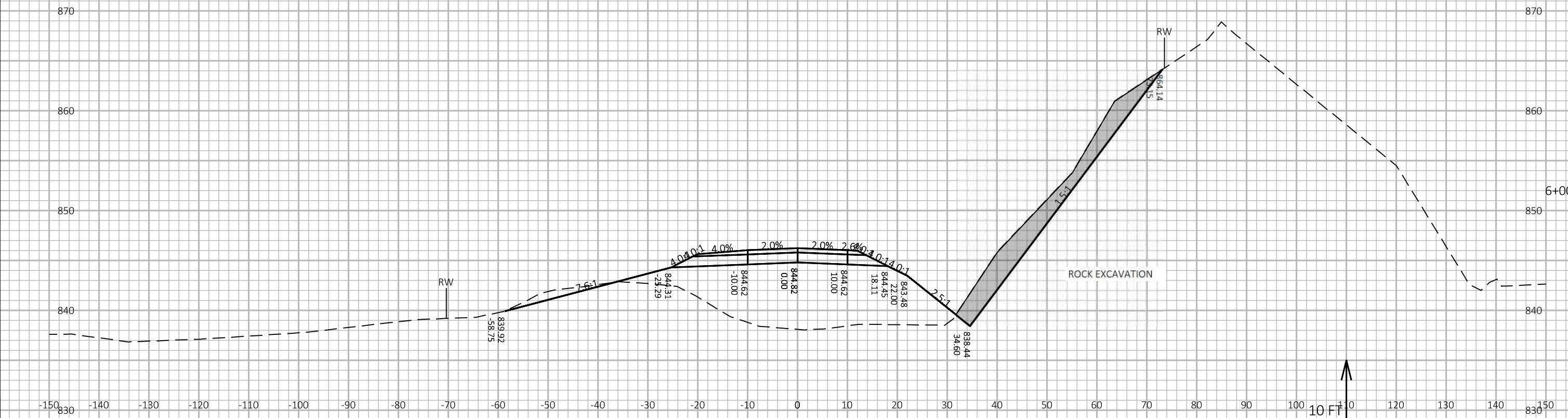
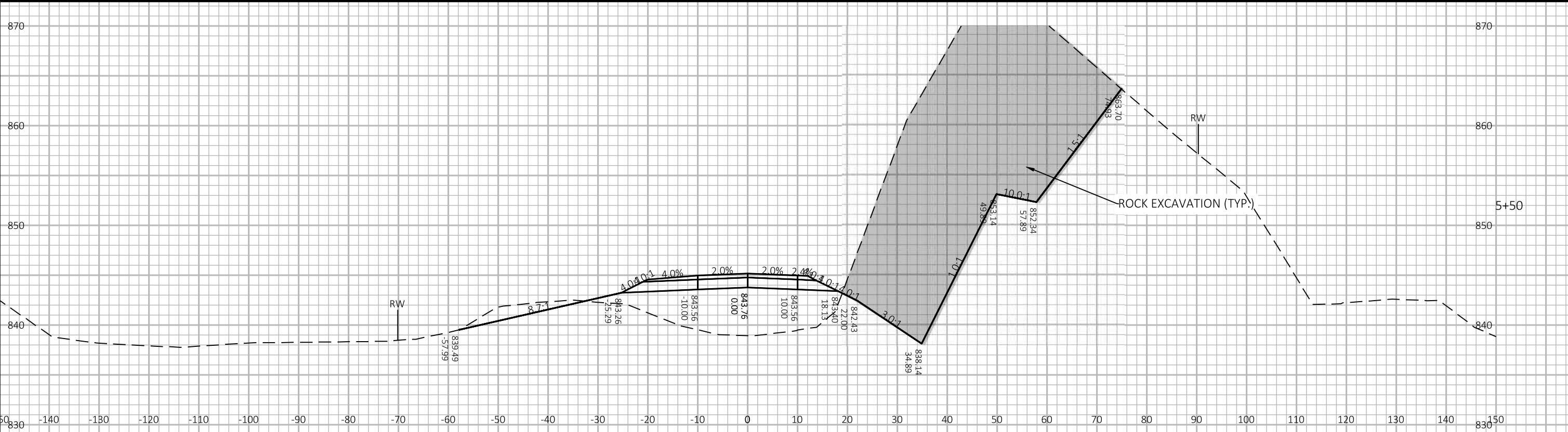
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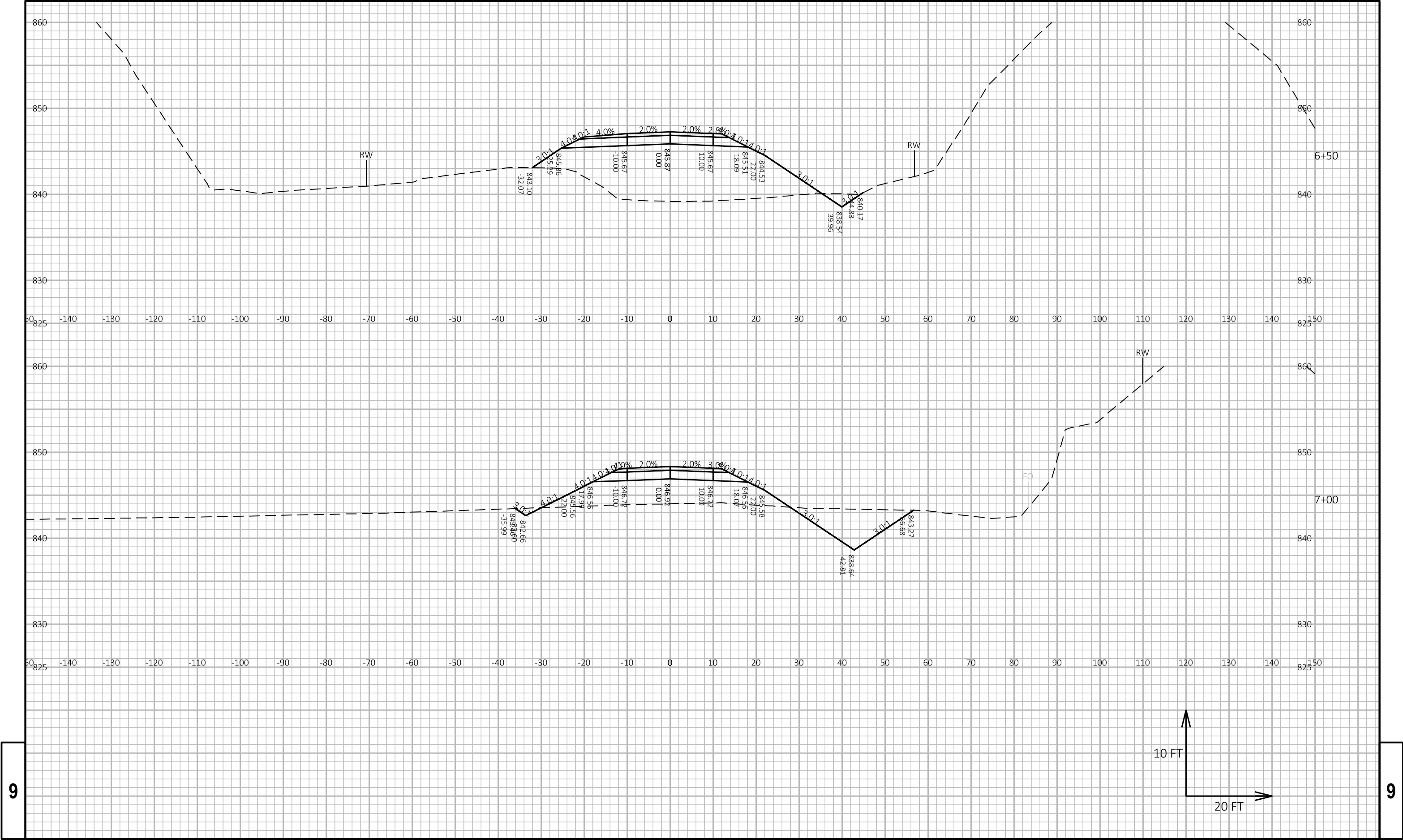
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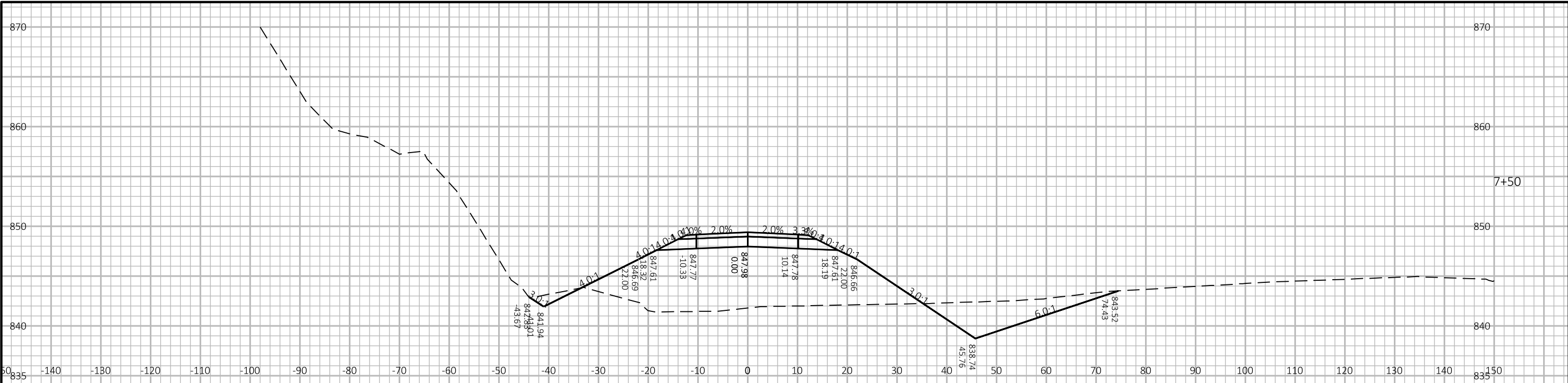
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PROJECT NO: 5667-00-75	HWY: CTH Q	COUNTY: GRANT	CROSS SECTIONS: HOMER ROAD	SHEET	E
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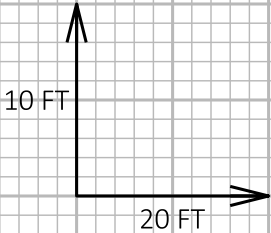
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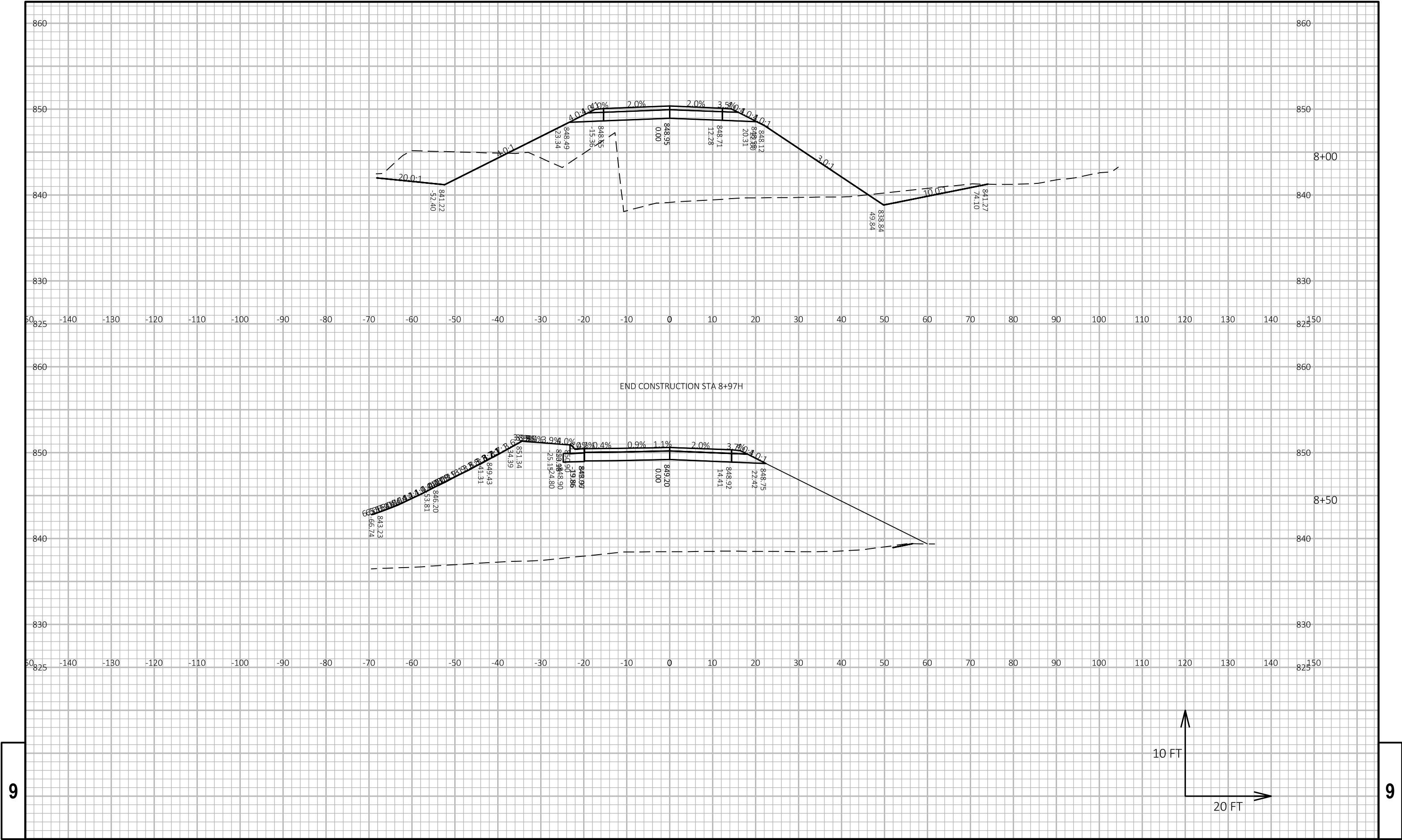
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PROJECT NO: 5667-00-75	HWY: CTH Q	COUNTY: GRANT	CROSS SECTIONS: HOMER ROAD	SHEET	E
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