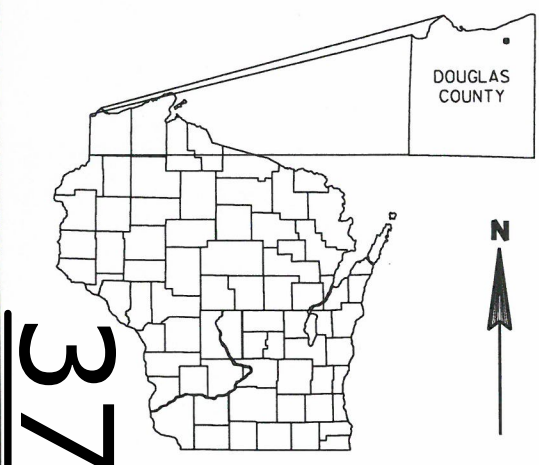


NWL APR 2017
PROJECT ID: 8766-00-71
WITH: N/A

COUNTY: DOUGLAS

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 = 92



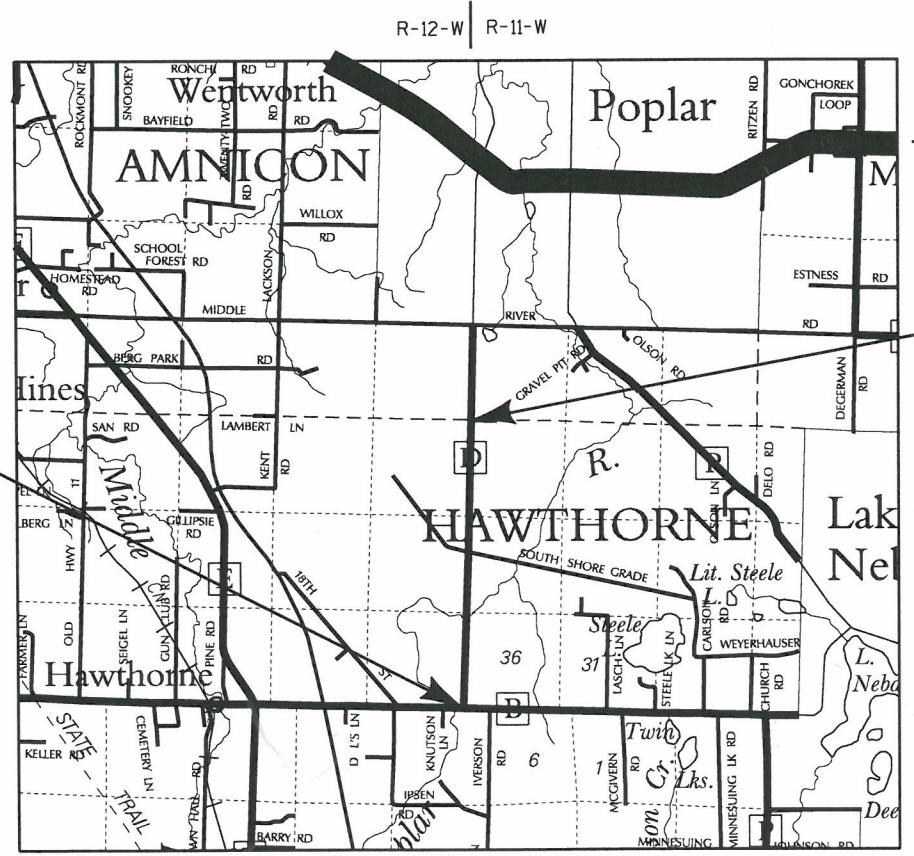
DESIGN DESIGNATION		
A.A.D.T. (2017)	=	660
A.A.D.T. (2037)	=	850
D.H.V.	=	---
D.D.	=	50/50
T.	=	7.6%
DESIGN SPEED	=	50 MPH
ESALS	=	109,500

CONVENTIONAL SYMBOLS

PLAN		PROFILE	
CORPORATE LIMITS		GRADE LINE	
PROPERTY LINE		ORIGINAL GROUND	
LOT LINE		MARSH OR ROCK PROFILE (To be noted as such)	
LIMITED HIGHWAY EASEMENT		SPECIAL DITCH	
EXISTING RIGHT OF WAY		GRADE ELEVATION	
PROPOSED OR NEW R/W LINE		CULVERT (Profile View)	
SLOPE INTERCEPT		UTILITIES	
REFERENCE LINE		ELECTRIC	
EXISTING CULVERT		FIBER OPTIC	
PROPOSED CULVERT (Box or Pipe)		GAS	
COMBUSTIBLE FLUIDS		SANITARY SEWER	
		STORM SEWER	
		TELEPHONE	
		WATER	
MARSH AREA		UTILITY PEDESTAL	
		POWER POLE	
WOODED OR SHRUB AREA		TELEPHONE POLE	

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PLAN OF PROPOSED IMPROVEMENT
HAWTHORNE - POPLAR
(CTH B TO EVANS LANE)
CTH D
DOUGLAS COUNTY

STATE PROJECT NUMBER
8766-00-71



BEGIN PROJECT
STA 104+20.46
Y 226136.74
X 222090.13

T-48-N
T-47-N

END PROJECT
STA 263+30.00

T-47-N
T-46-N

LAYOUT
SCALE 0 1 MI.
TOTAL NET LENGTH OF CENTERLINE = 3.013 MI.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), DOUGLAS COUNTY.

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
8766-00-71	WISC 2017178	1

ACCEPTED FOR DOUGLAS COUNTY

10/19/16 Jason J. Jackman
DATE COUNTY COMMISSIONER

ORIGINAL PLANS PREPARED BY

AYRES ASSOCIATES

JEFFREY A. ABRAMSON
32337
Eau Claire WI
PROFESSIONAL ENGINEER

DATE 10-14-16

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

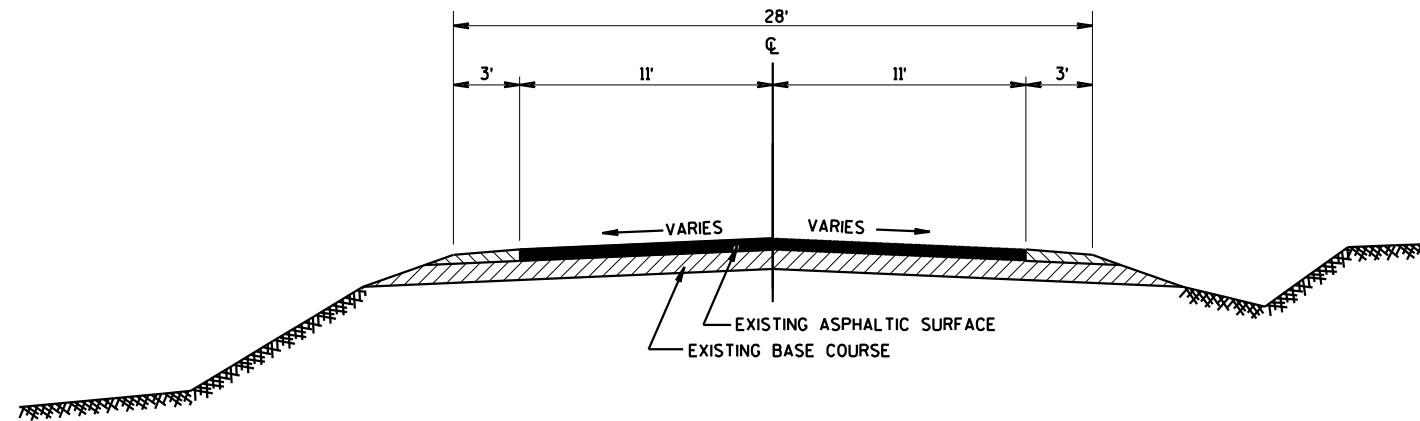
PREPARED BY

Surveyor AYRES ASSOCIATES
Designer AYRES ASSOCIATES
Management Construction KNIGHT E/A INC

APPROVED FOR THE DEPARTMENT

DATE: 10/25/16 Ryan B. McKee
(Management Consultant Signature)

E



EXISTING TYPICAL SECTION
CTH D

GENERAL NOTES

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER. IT IS ANTICIPATED THAT ALL TREES WITHIN THE RIGHT-OF-WAY WILL BE CLEARED AND GRUBBED.

EXACT LOCATION OF ALL DRIVEWAY ENTRANCES TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

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

SHRINKAGE OF EARTHWORK IS VARIABLE. AN AVERAGE FACTOR FOR EXCAVATION COMMON IS 30%.

CROSS DRAIN PIPE LOCATIONS AND ELEVATIONS AS SHOWN ON THE CROSS SECTIONS SHEETS ARE APPROXIMATE AND SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

DISTURBED AREAS WITHIN THE RIGHT OF WAY SHALL BE SALVAGED TOPSOIL, FERTILIZED, SEEDED, TEMPORARY SEEDED AND MULCHED AS DIRECTED BY THE ENGINEER.

SEED MIXTURE NO.20 SHALL BE USED THROUGHOUT THE PROJECT, EXCEPT LAWN AREAS WHERE NO.40 SHALL BE USED.

WHEN THE QUANTITY OF BASE AGGREGATE DENSE OR HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON OR CUBIC YARD THE DEPTH OF THICKNESS OF THE COURSE SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

REMOVED SIGNS WILL BE STOCKPILED ON THE PROJECT SITE AS DIRECTED BY THE ENGINEER AND WILL BE PICKED UP BY THE DOUGLAS COUNTY HIGHWAY DEPARTMENT.

DO NOT INSTALL SILT FENCE ANY FURTHER THAN FIVE FEET FROM THE TOE OF NEW SLOPE IN WETLAND AREAS.

DO NOT OPERATE EQUIPMENT OUTSIDE THE SLOPE INTERCEPTS AS SHOWN ON THE PLANS WHERE WETLANDS ARE PRESENT.

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE NORTH VERTICAL DATUM OF 2012 (NAVD88).

UTILITIES

* DAHLBERG LIGHT & POWER COMPANY
9221 SOUTH BIRD ROAD
SOLON SPRINGS, WI 54873
ATTN: JIM DAHLBERG
jim.dahlberg@dahlberglightandpower.com
(715) 816-4153

* CENTURYLINK
P.O. BOX 181
SOLON SPRINGS, WI 54873
ATTN: ALAN NICKELL
alan.nickell@centurylink.com
(715) 378-2131

COUNTY CONTACT

DOUGLAS COUNTY COMMISSIONER
7417 COUNTY ROAD E
P.O. BOX 174
HAWTHORNE, WI 54842
ATTN: JASON JACKMAN
(715) 374-2575
jason.jackman@douglascountywi.org

DESIGN CONTACT

AYRES ASSOCIATES
3433 OAKWOOD HILLS PARKWAY
EAU CLAIRE, WI 54701
ATTN: JEFF ABRAMSON, PE
(715) 834-3161
abramsonj@ayresassociates.com

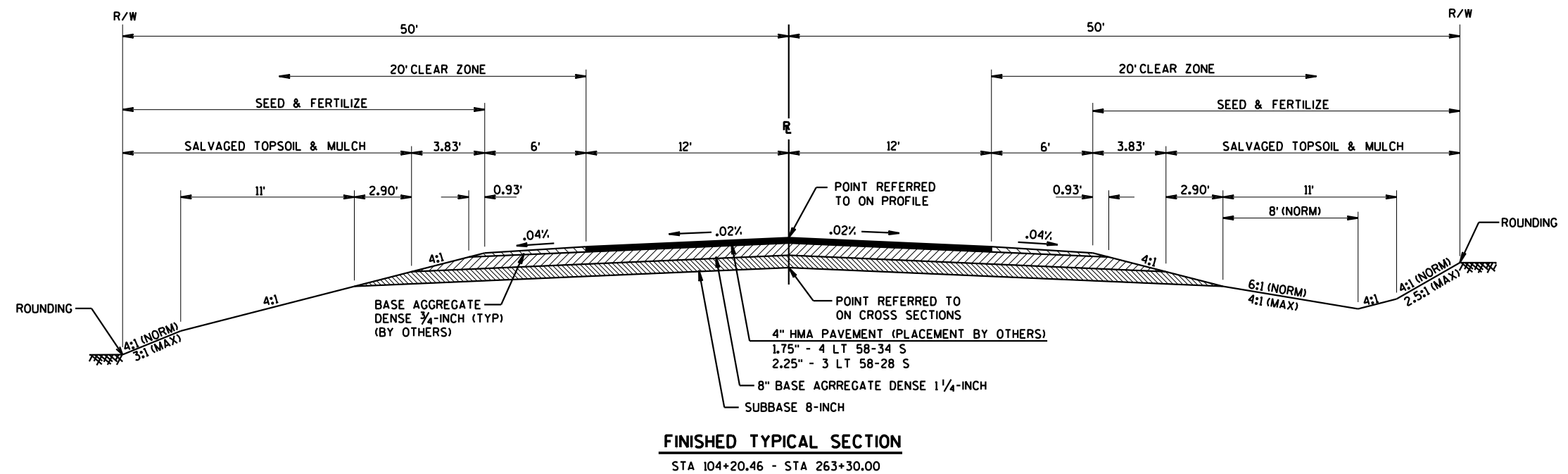
DNR CONTACT

WDNR - NORTHWEST REGION
820 WEST MAPLE STREET
SPOONER, WI 54801
ATTN: AMY CRONK
(715) 635-4229
amy.cronk@wisconsin.gov

* DENOTES DIGGERS HOTLINE MEMBER

DIGGERS HOTLINE

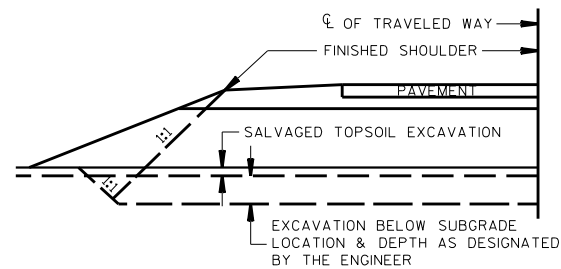
Dial **811** or (800) 242-8511
www.DiggersHotline.com



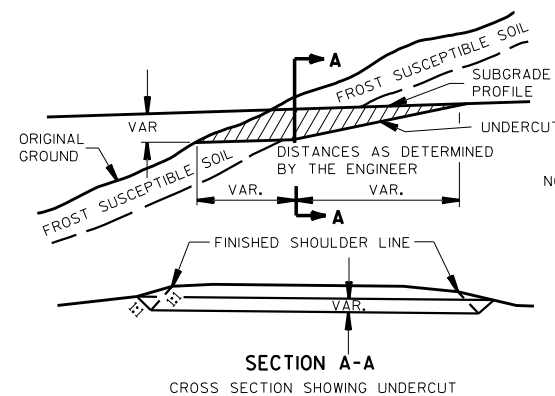
	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .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 = 38.99 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 29.41 ACRES

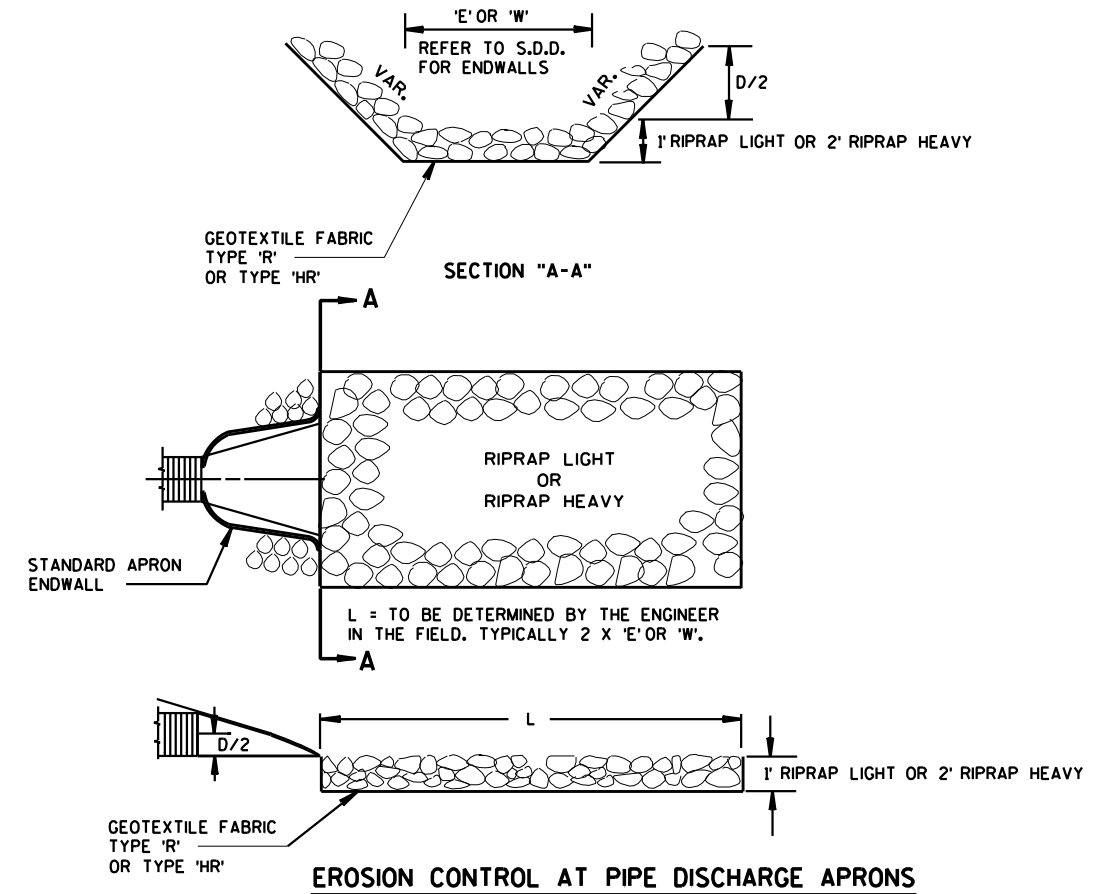


DETAIL FOR EXCAVATION BELOW SUBGRADE

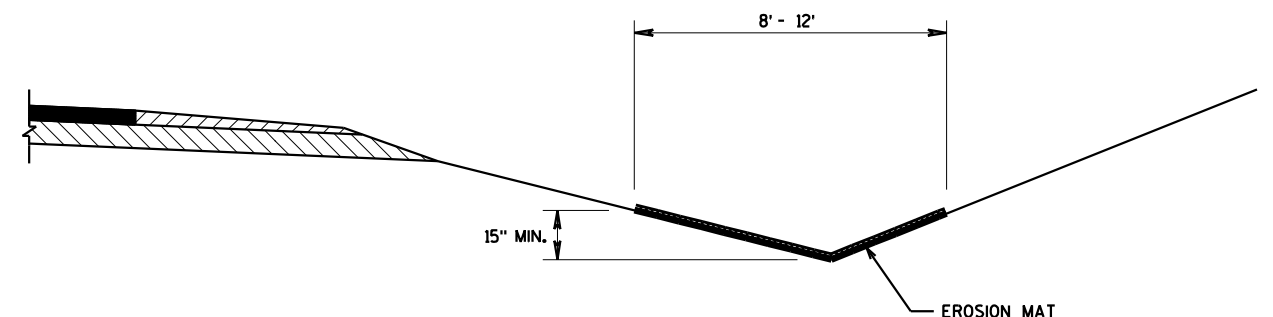


DETAIL FOR EXCAVATION BELOW SUBGRADE AT CUTS

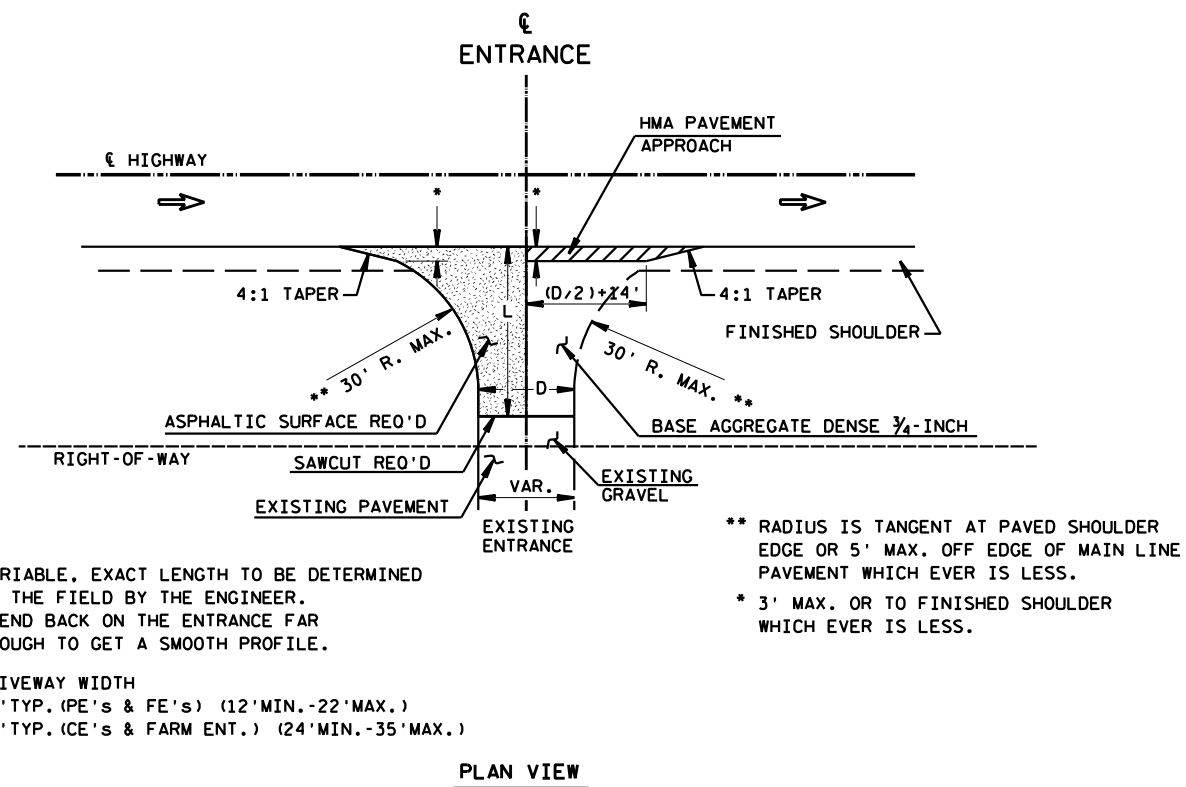
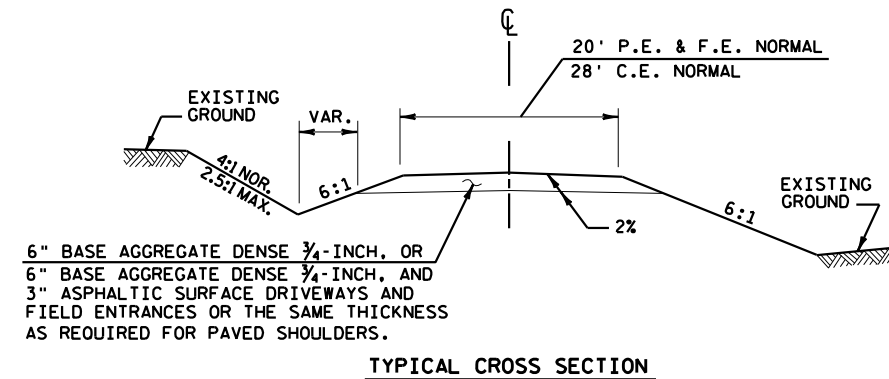
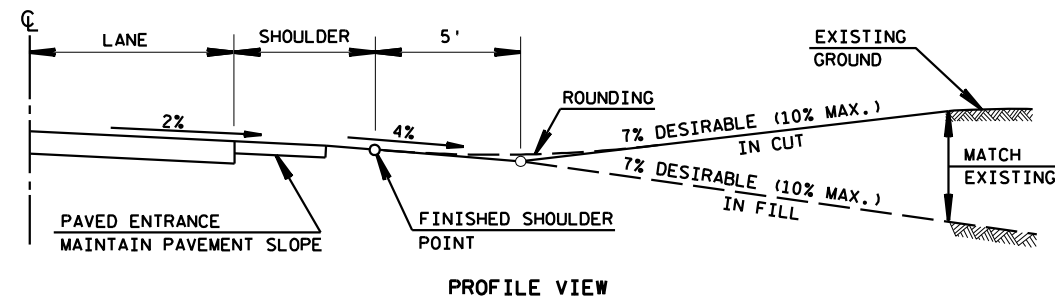
NOTE: EXACT LOCATIONS AND EXTENT OF E.B.S. SECTIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
E.B.S. AREA TO BE BACKFILLED WITH MATERIAL ACCEPTABLE TO THE ENGINEER
BACKFILL MUST BE HOMOGENEOUS WITH ADJOINING FILL MATERIAL.
THE FILL SECTION WITHIN 100' OF THE MOUTH OF THE CUT MUST BE KEPT 2' BELOW SUBGRADE UNTIL E.B.S. IS COMPLETED.



EROSION CONTROL AT PIPE DISCHARGE APRONS



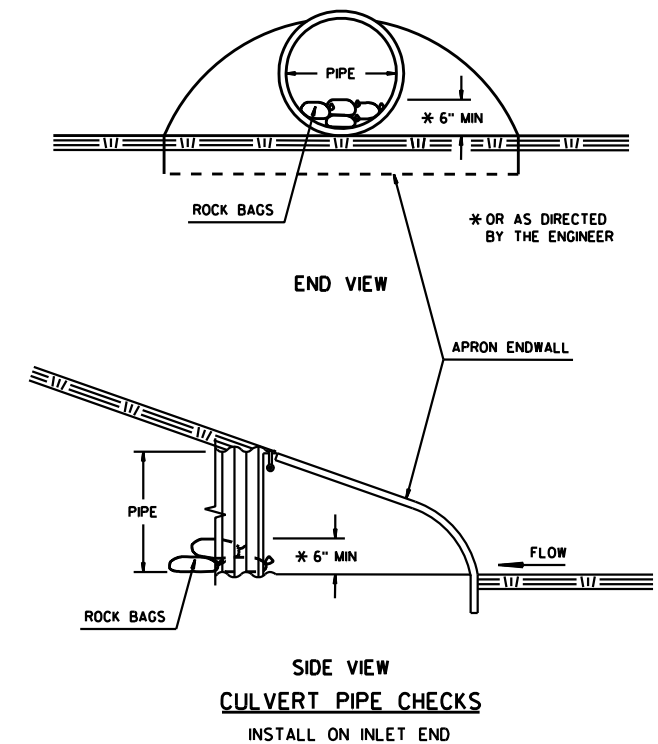
TYPICAL SECTION - EROSION MAT DITCH DETAIL



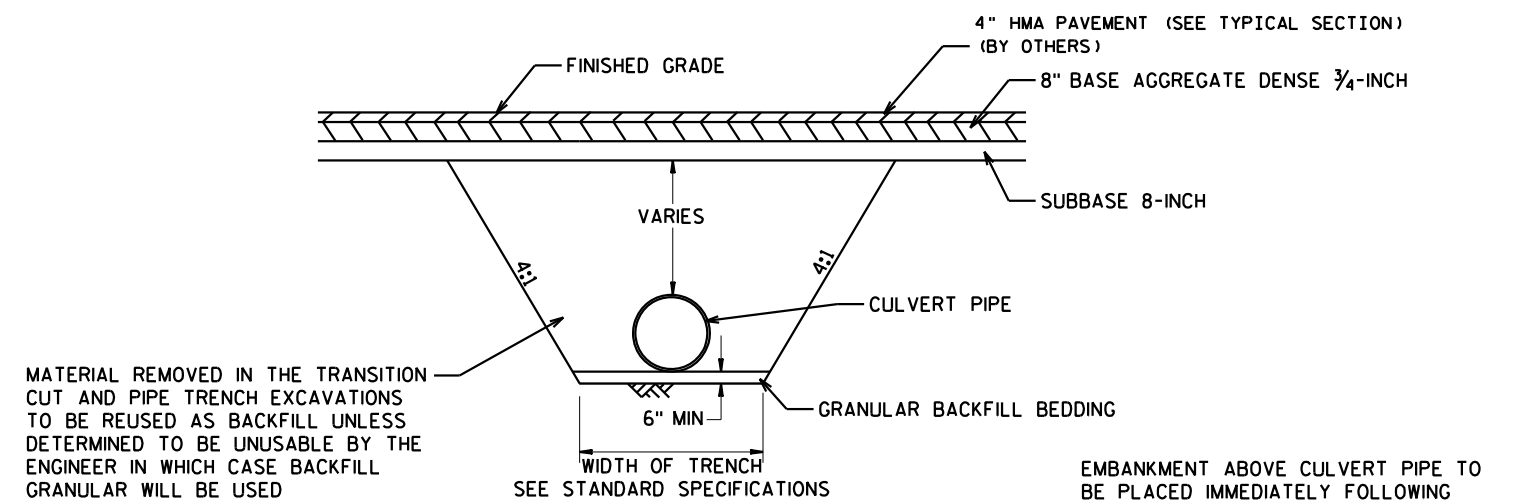
RURAL DRIVEWAY INTERSECTION DETAIL
(PE's, FE's & CE's)

BASE AGGREGATE DENSE AND ASPHALTIC SURFACE BY OTHERS

ESTIMATED BAG SIZE = 24" X 12" X 6"	
PIPE SIZE	ESTIMATED NO. OF BAGS
18"	2
24"	3
30"	5
48"	10
54"	10
60"	13
72"	16



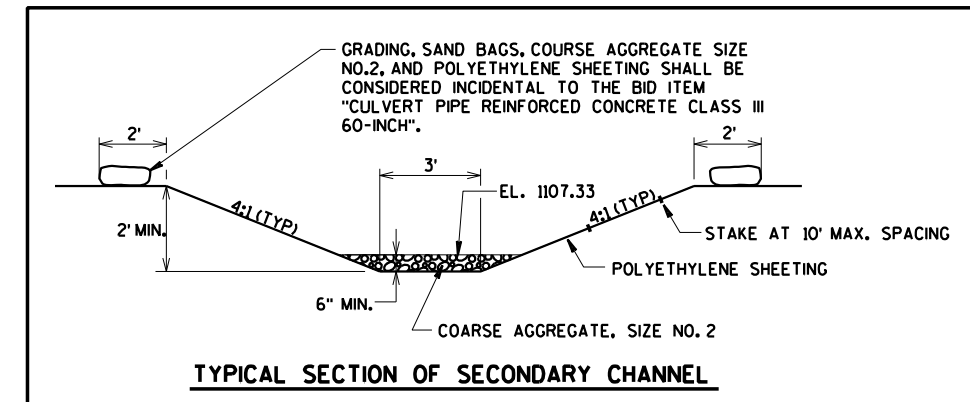
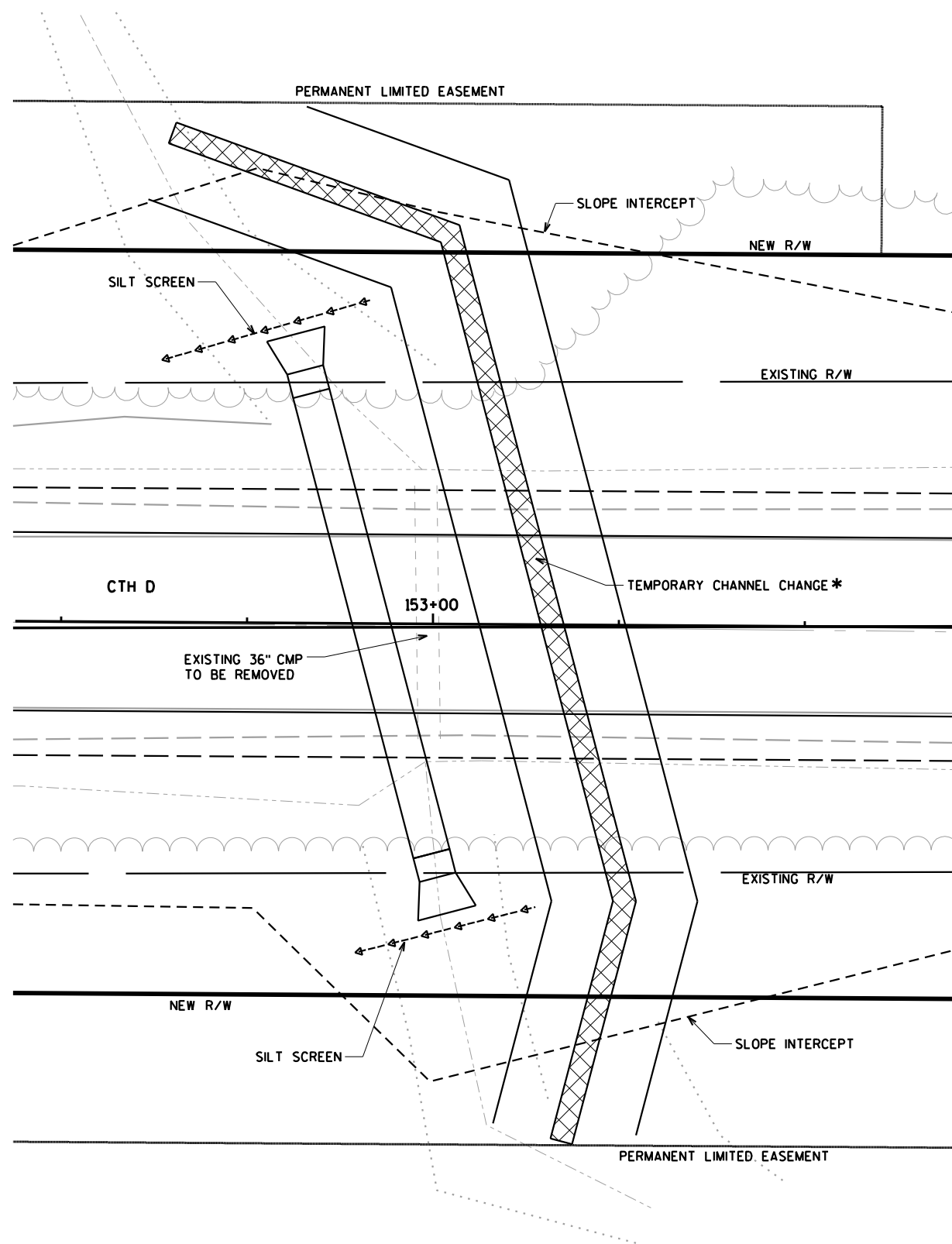
CULVERT PIPE CHECKS
INSTALL ON INLET END



TYPICAL SECTION - CULVERT PIPE TRANSITION

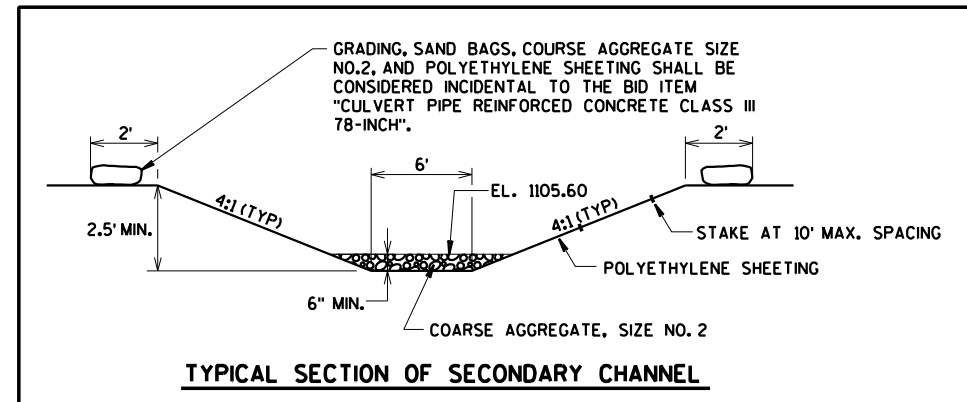
EMBANKMENT ABOVE CULVERT PIPE TO BE PLACED IMMEDIATELY FOLLOWING CULVERT INSTALLATION. SEE STANDARD SPECIFICATIONS.

COVER FROM SUBGRADE TO PIPE VARIES.



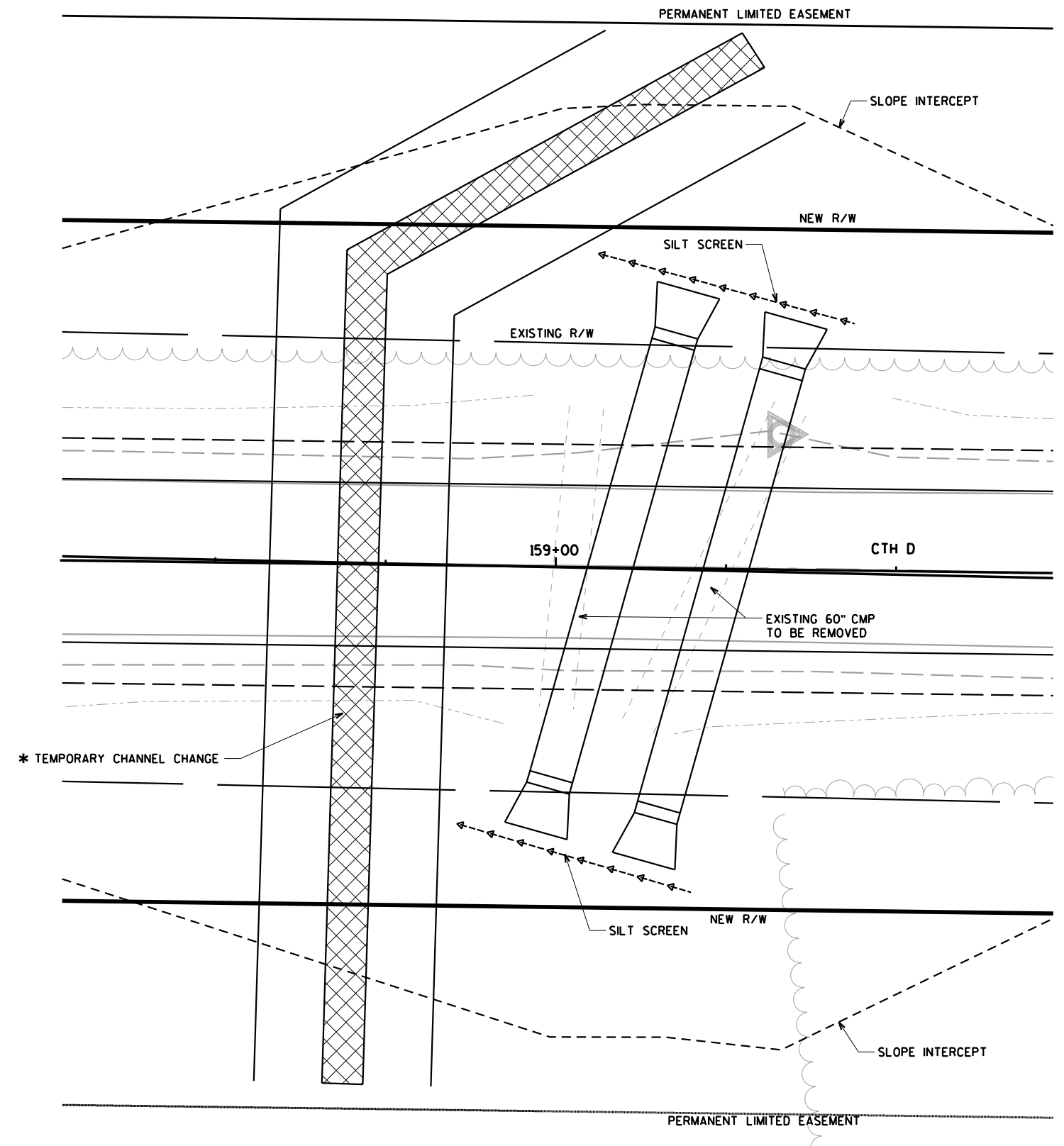
* REMOVE MATERIAL, STOCK PILE, AND REPLACE MATERIAL WHEN COMPLETE. THIS SHALL BE INCIDENTAL TO PLACEMENT OF CULVERT PIPES.

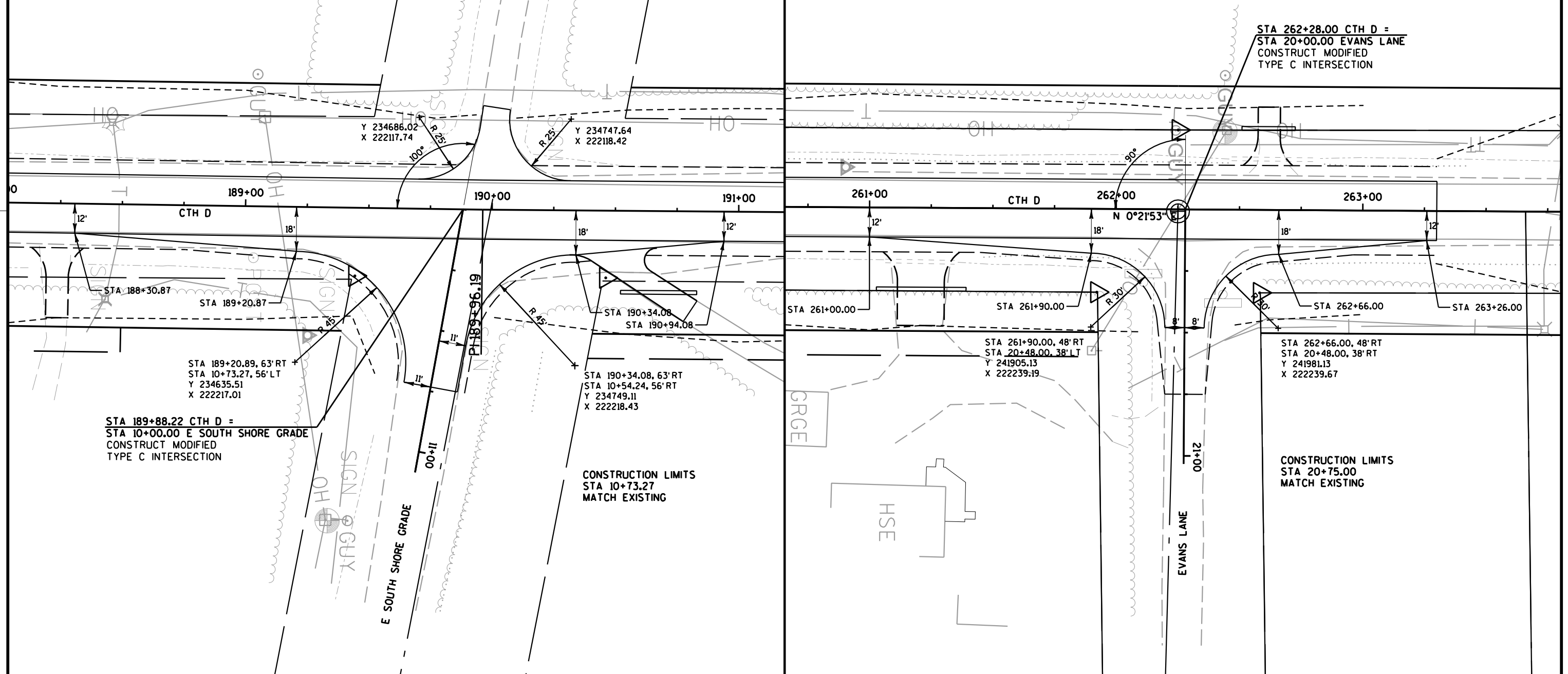
PRIOR TO DIVERTING WATER FOR PLACEMENT OF PIPES THE SECONDARY CHANNEL SHALL BE LINED AS SHOWN IN THE DETAIL.



* REMOVE MATERIAL, STOCK PILE, AND REPLACE MATERIAL WHEN COMPLETE. THIS SHALL BE INCIDENTAL TO PLACEMENT OF CULVERT PIPES.

PRIOR TO DIVERTING WATER FOR PLACEMENT OF PIPES THE SECONDARY CHANNEL SHALL BE LINED AS SHOWN IN THE DETAIL.







Lake Nebagamon



E

Estimate Of Quantities

8766-00-71					
Line	Item	Item Description	Unit	Total	Qty
0010	201.0105	Clearing	STA	160.000	160.000
0020	201.0205	Grubbing	STA	160.000	160.000
0030	203.0100	Removing Small Pipe Culverts	EACH	24.000	24.000
0040	204.0110	Removing Asphaltic Surface	SY	14,134.000	14,134.000
0050	205.0100	Excavation Common	CY	55,617.000	55,617.000
0060	205.0400	Excavation Marsh	CY	3,000.000	3,000.000
0070	208.0100	Borrow	CY	3,000.000	3,000.000
0080	209.2100	Backfill Granular Grade 2	CY	20,750.000	20,750.000
0090	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 8766-00-71	LS	1.000	1.000
0100	213.0100	Finishing Roadway (project) 01. 8766-00-71	EACH	1.000	1.000
0110	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	32,300.000	32,300.000
0120	350.0125	Subbase 8-Inch	SY	82,300.000	82,300.000
0130	521.0118	Culvert Pipe Corrugated Steel 18-Inch	LF	592.000	592.000
0140	521.0124	Culvert Pipe Corrugated Steel 24-Inch	LF	24.000	24.000
0150	521.1024	Apron Endwalls for Culvert Pipe Steel 24-Inch	EACH	16.000	16.000
0160	521.1518	Apron Endwalls for Culvert Pipe Sloped Side Drains Steel 18-Inch 6 to 1	EACH	40.000	40.000
0170	521.1524	Apron Endwalls for Culvert Pipe Sloped Side Drains Steel 24-Inch 6 to 1	EACH	2.000	2.000
0180	522.0160	Culvert Pipe Reinforced Concrete Class III 60-Inch	LF	72.000	72.000
0190	522.0178	Culvert Pipe Reinforced Concrete Class III 78-Inch	LF	140.000	140.000
0200	529.0124	Culvert Pipe Corrugated Steel Aluminum Coated 24-Inch	LF	436.000	436.000
0210	606.0100	Riprap Light	CY	4.000	4.000
0220	606.0300	Riprap Heavy	CY	140.000	140.000
0230	618.0100	Maintenance And Repair of Haul Roads (project) 01. 8766-00-71	EACH	1.000	1.000
0240	619.1000	Mobilization	EACH	1.000	1.000
0250	624.0100	Water	MGAL	950.000	950.000
0260	625.0500	Salvaged Topsoil	SY	77,056.000	77,056.000
0270	627.0200	Mulching	SY	96,320.000	96,320.000
0280	628.1504	Silt Fence	LF	24,500.000	24,500.000
0290	628.1520	Silt Fence Maintenance	LF	24,500.000	24,500.000
0300	628.1550	Silt Screen	LF	160.000	160.000
0310	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000
0320	628.1910	Mobilizations Emergency Erosion Control	EACH	6.000	6.000
0330	628.2004	Erosion Mat Class I Type B	SY	3,270.000	3,270.000
0340	628.7504	Temporary Ditch Checks	LF	675.000	675.000
0350	628.7555	Culvert Pipe Checks	EACH	105.000	105.000
0360	629.0210	Fertilizer Type B	CWT	81.000	81.000

Estimate Of Quantities

8766-00-71

Line	Item	Item Description	Unit	Total	Qty
0370	630.0120	Seeding Mixture No. 20	LB	3,331.000	3,331.000
0380	630.0140	Seeding Mixture No. 40	LB	200.000	200.000
0390	630.0200	Seeding Temporary	LB	1,663.000	1,663.000
0400	633.5200	Markers Culvert End	EACH	22.000	22.000
0410	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	7.000	7.000
0420	637.2210	Signs Type II Reflective H	SF	31.220	31.220
0430	637.2230	Signs Type II Reflective F	SF	9.000	9.000
0440	638.2602	Removing Signs Type II	EACH	9.000	9.000
0450	638.3000	Removing Small Sign Supports	EACH	9.000	9.000
0460	642.5001	Field Office Type B	EACH	1.000	1.000
0470	643.0100	Traffic Control (project) 01. 8766-00-71	EACH	1.000	1.000
0480	643.0420	Traffic Control Barricades Type III	DAY	1,450.000	1,450.000
0490	643.0705	Traffic Control Warning Lights Type A	DAY	2,900.000	2,900.000
0500	643.0900	Traffic Control Signs	DAY	1,900.000	1,900.000
0510	645.0120	Geotextile Type HR	SY	220.000	220.000
0520	645.0130	Geotextile Type R	SY	14.000	14.000
0530	646.0106	Pavement Marking Epoxy 4-Inch	LF	63,640.000	63,640.000
0540	648.0100	Locating No-Passing Zones	MI	3.010	3.010
0550	650.4500	Construction Staking Subgrade	LF	15,910.000	15,910.000
0560	650.5000	Construction Staking Base	LF	15,910.000	15,910.000
0570	650.6000	Construction Staking Pipe Culverts	EACH	11.000	11.000
0580	650.8000	Construction Staking Resurfacing Reference	LF	15,910.000	15,910.000
0590	650.9910	Construction Staking Supplemental Control (project) 01. 8766-00-71	LS	1.000	1.000
0600	650.9920	Construction Staking Slope Stakes	LF	15,910.000	15,910.000
0610	690.0150	Sawing Asphalt	LF	217.000	217.000
0620	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000
0630	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000
0640	SPV.0060	Special 01. Culvert Pipe Transitions	EACH	11.000	11.000
0650	SPV.0060	Special 02. Removing Mailboxes	EACH	10.000	10.000
0660	SPV.0195	Special 01. Producing HMA Pavement 4 LT 58-34 S	TON	4,165.000	4,165.000
0670	SPV.0195	Special 02. Producing HMA Pavement 3 LT 58-28 S	TON	5,355.000	5,355.000
0680	SPV.0195	Special 03. Producing Asphaltic Surface Driveways And Field Entrances	TON	34.000	34.000
0690	SPV.0195	Special 04. Producing Base Aggregate Dense 3/4-Inch	TON	5,980.000	5,980.000

CLEARING AND GRUBBING

STATION TO STATION	LOCATION	201.0105	201.0205
		CLEARING STA	GRUBBING STA
104+00 - 264+00	LT/RT	160	160
PROJECT TOTALS		160	160

REMOVING SMALL PIPE CULVERTS

STATION	LOCATION	SIZE	MATERIAL	LENGTH	203.0100
		INCHES		FT	EACH
105+79	RT	15	CMCP	30	1
122+32	LT	18	CMCP	18	1
133+16	LT	18	CMCP	16	1
139+19	LT/RT	24	CMCP	42	1
139+46	RT	12	CMCP	32	1
144+88	RT	18	CMCP	24	1
146+25	LT	18	CMCP	22	1
153+00	LT/RT	36	CMCP	35	1
159+02	LT/RT	60	CMCP	44	1
159+24	LT/RT	60	CMCP	52	1
172+33	RT	15	CMCP	26	1
195+13	LT/RT	18	CMCP	40	1
208+91	LT/RT	24	CMCP	38	1
219+36	RT	18	CMCP	26	1
224+40	RT	18	CMCP	42	1
233+35	LT	12	CMCP	22	1
233+73	RT	18	CMCP	38	1
238+75	RT	18	CMCP	18	1
240+48	LT/RT	18	CMCP	40	1
244+51	LT/RT	24	CMCP	38	1
250+42	LT	24	CMCP	30	1
257+30	LT/RT	18	CMCP	40	1
261+21	RT	18	CMCP	28	1
262+62	LT	18	CMCP	34	1

PROJECT TOTAL24

REMOVING ASPHALTIC SURFACE

STATION TO STATION	LOCATION	204.0110
		SY
110+00 - 115+00	CTH D	1225
116+21 - 119+75	CTH D	865
121+20 - 125+00	CTH D	930
128+65 - 132+65	CTH D	980
135+00 - 137+00	CTH D	490
139+50 - 173+25	CTH D	8250
183+00 - 185+00	CTH D	490
246+00 - 249+00	CTH D	730
190+55	DRIVEWAY RT	52
192+58	DRIVEWAY RT	42
193+89	DRIVEWAY RT	38
251+79	DRIVEWAY RT	42

PROJECT TOTAL14134

EARTHWORK SUMMARY

STATION TO STATION	LOCATION	205.0100		205.0400	SALVAGED/ UNUSABLE	(5)	UNEXPANDED	(6)	(7)	(8)	(9)	(10)	WASTE	(12)	(11)
		EXCAVATION COMMON	(1)	EXCAVATION	PAVEMENT	AVAILABLE	FILL	EXPANDED EBS	EXPANDED	EXPANDED	EXPANDED	MASS		BORROW	209.2100
		CUT (2)	EBS (3)	MARSH (4)	MATERIAL	MATERIAL	CY	BACKFILL	MARSH	BACKFILL	FILL	ORDINATE +/-	CY	CY	BACKFILL
		CY	CY	CY	CY	CY		CY		CY	CY	CY			GRADE 2
104+20.46 - 263+30	MAINLINE	43117	---	---	4350	38767	28918	--	---	37593	1174	1174	---	--	
UNDISTRIBUTED		---	12500	3000	---	---	--	16250	4500	--	--	15500	3000	20750	
SUBTOTALS		43117	12500	3000	4350	38767	28918	16250	4500	37593	1174	16674	3000	20750	
PROJECT ID TOTALS		55617		3000									3000		20750

- 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 BACKFILL GRANULAR.
- 4) MARSH EXCAATION - TO BE BACKFILLED WITH BACKFILL GRANULAR
- 5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSUALE PAVEMENT MATERIAL
- 6) EXPANDED EBS BACKFILL - THIS IS TO BE FILLED WITH BACKFILL GRANULAR. EBS BACKFILL FACTOR 1.3
- 7) EXPANDED MARSH BACKFILL - THIS IS TO BE FILLED WITH BACKFILL GRANULAR MATERIAL. MARSH BACKFILL FACTOR = 1.5.
- 8) EXPANDED FILL FACTOR = 1.3
- 9) EXPANDED FILL = UNEXPANDED FILL * FILL FACTOR. ASSUMES EBS MATERIAL NOT USED TO REDUCE BORROW
- 10) 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.
- 11) USE BACKFILL GRANULAR TYPE 2 AS BACKFILL FOR EBS AND MARSH EXCAVATION AREAS.
- 12) AN UNDISTRIBUTED BORROW EXCAVATION QUANTITY IS INCLUDED TO ACCOUNT FOR POTENTIAL UNUSABLE MATERIALS ENCOUNTERED AS PART OF EXCAVATION COMMON

3

3

CULVERT PIPE

SUBBASE 8-INCH		521.0118		521.0124	522.0160	522.0178	529.0124		521.1024	521.1518	521.1524	INVERT	DISCHARGE	SLOPE
STATION TO STATION		CORRUGATED STEEL		CULVERT PIPE	PIPE	PIPE	CORRUGATED STEEL		FOR CULVERT	APRON ENDWALLS FOR	CP SLOPED SIDE DRAINS			
350.0125		18-INCH	24-INCH		REINFORCED	REINFORCED	24-INCH	THICKNESS	24-INCH	18-INCH	24-INCH	ELEV	ELEV	%
SY		LF	LF		CONCRETE	CONCRETE	LF	INCHES	EACH	EACH	EACH			
104+20.46 - 263+30		82300			CLASS III	CLASS III								
PROJECT TOTAL		82300			60-INCH	78-INCH								
STATION		LOCATION												
105+79		RT	30	---	---	---	---	0.064	---	2	---	---	---	---
113+00		LT/RT	---	---	---	---	76	0.064	2	---	---	1158.87	1157.00	2.46%
119+75		RT	36	---	---	---	---	0.064	---	2	---	---	---	---
122+32		LT	24	---	---	---	---	0.064	---	2	---	---	---	---
125+00		LT	30	---	---	---	---	0.064	---	2	---	---	---	---
133+16		LT	28	---	---	---	---	0.064	---	2	---	---	---	---
139+19		LT/RT	---	---	---	---	54	0.064	2	---	---	1137.42	1136.76	1.22%
139+46		RT	24	---	---	---	---	0.064	---	2	---	---	---	---
144+88		RT	28	---	---	---	---	0.064	---	2	---	---	---	---
146+25		RT	26	---	---	---	---	0.064	---	2	---	---	---	---
152+92		LT/RT	---	---	72	---	---	---	---	---	---	1107.33	1107.32	0.01%
159+08		LT/RT	---	---	---	70	---	---	---	---	---	1105.60	1105.50	0.14%
159+25		LT/RT	---	---	---	70	---	---	---	---	---	1105.60	1105.50	0.14%
172+33		RT	24	---	---	---	---	0.064	---	2	---	---	---	---
180+91		LT	24	---	---	---	---	0.064	---	2	---	---	---	---
180+94		RT	32	---	---	---	---	0.064	---	2	---	---	---	---
186+11		RT	22	---	---	---	---	0.064	---	2	---	---	---	---
192+00		RT	36	---	---	---	---	0.064	---	2	---	---	---	---
195+13		LT/RT	---	---	---	---	50	0.064	2	---	---	1135.29	1135.29	0.00%
208+91		LT/RT	---	---	---	---	50	0.064	2	---	---	1133.93	1133.93	0.00%
219+36		RT	28	---	---	---	---	0.064	---	2	---	---	---	---
224+40		LT/RT	---	---	---	---	50	0.064	2	---	---	1137.75	1137.75	0.00%
233+35		LT	32	---	---	---	---	0.064	---	2	---	---	---	---
233+73		RT	46	---	---	---	---	0.064	---	2	---	---	---	---
238+75		RT	24	---	---	---	---	0.064	---	2	---	---	---	---
240+48		LT/RT	---	---	---	---	56	0.064	2	---	---	1146.21	1145.81	0.71%
244+51		LT/RT	---	---	---	---	50	0.064	2	---	---	1145.95	1145.95	0.00%
247+45		RT	36	---	---	---	---	0.064	---	2	---	---	---	---
250+42		LT	---	24	---	---	---	0.064	---	---	2	---	---	---
257+30		LT/RT	---	---	---	---	50	0.064	2	---	---	1160.99	1160.99	0.00%
261+21		RT	40	---	---	---	---	0.064	---	2	---	---	---	---
262+62		LT	22	---	---	---	---	0.064	---	2	---	---	---	---
PROJECT TOTALS			592	24	72	140	436		16	40	2			

NOTES
- ALL SUBSURFACE ELEVATIONS ARE PIPE FLOWLINES
FINAL LOCATION TO BE DETERMINED BY ENGINEER

BASE AGGREGATE DENSE		
STATION TO STATION	SPV.0195.04	305.0120
	PRODUCING	BASE AGGREGATE
	DENSE	DENSE
	3/4-INCH	1 1/4-INCH
TON		
104+20 - 263+30	5330	32020
E. SOUTH SHORE GRADE	10	190
EVANS LANE	40	90
DRIVEWAYS	600	---
PROJECT TOTALS		
	5980	32300

		HMA PAVEMENT ITEMS										
		SPV.0195.01 PRODUCING HMA PAVEMENT		SPV.0195.02 PRODUCING HMA PAVEMENT		SPV.0195.03 PRODUCING ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES						
STATION TO STATION	LOCATION	4	LT	58-34	S	3	LT	58-28	S	TON	TON	TON
104+20 - 263+30	CTH D			4165				5355				---
DRIVEWAYS	CTH D			---				---				34
PROJECT TOTALS				4165				5355				34

RIPRAP					
STATION	LOCATION	RIPRAP HEAVY 606.0300	RIPRAP LIGHT 606.0100	645.0130 GEOTEXTILE TYPE R	645.0120 GEOTEXTILE TYPE HR
		CY	CY	SY	SY
113+00	LT	---	3	11	---
152+92	LT	8	---	---	16
152+92	RT	15	---	---	24
159+02	LT	30	---	---	48
159+02	RT	60	---	---	88
UNDISTRIBUTED		27	1	3	44
PROJECT TOTALS		140	4	14	220

MAINTENANCE AND REPAIR OF HAUL ROAD

LOCATION	618.0100 EACH
01. 8766-00-71	1
PROJECT TOTAL	1

MOBILIZATION

LOCATION	619.1000 EACH
PROJECT LIMITS	1
PROJECT TOTAL	1

SILT FENCE

STATION TO STATION	LOCATION	628.1504	628.1520
		LF	MAINTENANCE LF
111+75 - 120+50	LT	875	875
116+25 - 118+50	RT	225	225
123+00 - 126+00	LT	300	300
126+00 - 137+00	RT	1100	1100
129+00 - 133+00	LT	400	400
133+25 - 140+50	LT	725	725
147+00 - 178+50	LT	3300	3300
147+00 - 172+10	RT	2600	2600
172+30 - 178+50	RT	620	620
185+50 - 188+00	LT	250	250
190+50 - 218+50	LT	2800	2800
199+75 - 217+50	RT	1775	1775
220+50 - 232+50	RT	1200	1200
221+50 - 231+50	LT	1000	1000
238+00 - 242+00	LT	400	400
239+00 - 241+35	RT	235	235
243+25 - 248+50	LT	525	525
243+25 - 247+00	RT	375	375
253+50 - 260+00	RT	650	650
257+25 - 260+00	LT	275	275
UNDISTRIBUTED		4870	4870
PROJECT TOTALS		24500	24500

TOPSOIL, SALVAGED TOPSOIL, MULCHING, FERTILIZER, & SEEDING

STATION TO STATION	LOCATION	625.0500 SALVAGED TOPSOIL	627.0200 MULCHING	629.0210 FERTILIZER TYPE B	630.0120 SEEDING MIXTURE NO. 20	630.0140 SEEDING MIXTURE NO. 40	630.0200 SEEDING TEMPORARY
		SY	SY	CWT	LB	LB	LB
104+50 - 263+30	CTH D	77056	77056	65	2665	160	1330
UNDISTRIBUTED			19264	16	666	40	333
PROJECT TOTALS		77056	96320	81	3331	200	1663

WATER

LOCATION	624.0100 MGAL
DUST CONTROL	430
BASE COMPACTION	520
PROJECT TOTAL	950

SILT SCREEN

STATION TO STATION	LOCATION	628.1550
		LF
152+92	LT	30
152+92	RT	25
159+08	LT	40
159+08	RT	35
UNDISTRIBUTED		30
PROJECT TOTAL		160

EROSION MAT CLASS I TYPE B

STATION TO STATION	LOCATION	628.2004
		SY
111+00 - 112+00	LT DITCH	90
111+00 - 113+00	RT DITCH	180
114+00 - 115+00	LT DITCH	90
126+00 - 126+50	RT DITCH	45
129+00 - 129+50	LT DITCH	45
140+50 - 141+50	RT BACKSLOPE	110
141+50 - 145+50	LT BACKSLOPE	890
143+50 - 144+50	RT BACKSLOPE	280
147+00 - 148+00	LT DITCH	90
147+00 - 148+00	RT DITCH	90
248+00 - 249+00	RT DITCH	90
248+00 - 249+00	LT DITCH	90
248+50 - 249+50	LT BACKSLOPE	140
249+50 - 250+50	RT BACKSLOPE	220
260+50 - 261+00	RT BACKSLOPE	170
UNDISTRIBUTED		650
PROJECT TOTAL		3270

CULVERT PIPE CHECKS

STATION	LOCATION	628.7555 EACH
106+00	RT	2
113+00	RT	3
119+75	RT	2
122+32	LT	2
125+00	LT	2
133+16	LT	2
139+19	RT	3
139+46	RT	2
144+88	RT	2
146+25	LT	2
172+33	RT	2
180+91	LT	2
180+94	RT	2
186+11	RT	2
192+00	RT	2
193+89	RT	2
195+13	LT/RT	6
208+91	LT/RT	6
219+36	RT	2
224+40	LT/RT	6
233+35	LT	2
233+73	RT	2
238+75	RT	2
240+48	LT	3
244+51	LT/RT	6
247+45	RT	2
250+42	LT	3
257+30	LT/RT	6
261+21	RT	2
262+62	LT	2
UNDISTRIBUTED		21
PROJECT TOTAL		105

MOBILIZATIONS EROSION CONTROL

LOCATION	628.1905 EACH
PROJECT LIMITS	3
PROJECT TOTAL	3

MOBILIZATIONS EMERGENCY EROSION CONTROL

LOCATION	628.1910 EACH
PROJECT LIMITS	6
PROJECT TOTAL	6

TEMPORARY DITCH CHECKS			MARKERS CULVERT ENDS			PERMANENT SIGNING																																			
STATION	LOCATION	628.7504 LF	STATION	LOCATION	633.5200 EACH	APPROX STATION LOCATION	SIGN GROUP NUMBER	SIGN CODE	SIGN SIZE WxH (INCHES)	634.0614 POSTS WOOD 4X6-INCH 14-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	COMMENT																										
104+50	LT/RT	24	113+00	LT/RT	2	104+50 LT	1	R1-1	30" X 30"	1	5.18	---	1	1																											
106+00	LT	12	139+19	LT/RT	2	110+50 LT	2	W3-1	36" X 36"	1	---	9.00	1	1																											
110+00	LT/RT	24	152+92	LT/RT	2	106+25 RT	3	M1-5A	24" X 24"	1	4.00	---	1	1																											
110+50	RT	12	159+08	LT/RT	2	120+00 LT	4	J1-1	24" X 39"	1	6.50	---	1	1																											
111+00	LT/RT	24	159+25	LT/RT	2	146+70 RT	---	---	---	---	---	---	1	1	SIGN NOT REPLACED																										
121+00	RT	12	195+13	LT/RT	2	177+20 LT	---	---	---	---	---	---	1	1	SIGN NOT REPLACED																										
121+75	RT	12	208+91	LT/RT	2	189+95 LT	5	R1-1	30" X 30"	1	5.18	---	1	1																											
123+25	RT	12	224+40	LT/RT	2	190+05 RT	6	R1-1	30" X 30"	1	5.18	---	1	1																											
124+50	RT	12	240+48	LT/RT	2	262+50 RT	7	R1-1	30" X 30"	1	5.18	---	1	1																											
125+75	RT	12	244+51	LT/RT	2	PROJECT TOTALS									7	31.22	9.00	9	9																						
128+00	LT	12	257+30	LT/RT	2	TRAFFIC CONTROL ITEMS										FIELD OFFICE TYPE B				CONSTRUCTION STAKING SUPPLEMENTAL CONTROL																					
129+00	LT	12	PROJECT TOTAL 22			643.0420			643.0705			643.0900			642.5001			650.9910																							
141+00	RT	12	LOCATION			TRAFFIC CONTROL BARRICADES TYPE III EACH DAY			TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH DAY			TRAFFIC CONTROL SIGNS EACH DAY			PROJECT EACH			PROJECT LS																							
143+00	LT/RT	24	PROJECT			10			1170			20			2340			13			1521																				
144+00	LT/RT	24	UNDISTRIBUTED			280			560						379																										
144+50	LT	12	PROJECT TOTALS			1450			2900			1900			PROJECT TOTAL 1			CONSTRUCTION STAKING																							
145+00	LT	12	TRAFFIC CONTROL (PROJECT)			643.0100			648.0100			649.0150			650.4500			650.5000		650.8000																					
145+50	LT/RT	24	PROJECT			EACH			STATION TO STATION			MI			STATION TO STATION			LOCATION			SUBGRADE		BASE		SLOPE		STAKES		REFERENCE												
146+50	RT	12	01. 8766-00-71			1			104+20.46 - 263+30			3.01			PROJECT TOTALS			15910			15910			15910			15910														
147+00	LT	12	PROJECT TOTAL			1			PROJECT TOTAL			3.01			SAWING ASPHALT			690.0150			CULVERT PIPE TRANSITIONS																				
182+00	RT	12	PAVEMENT MARKING EPOXY 4-INCH			646.0106			650.6000			650.6000			650.6000			650.6000			650.6000			650.6000			650.6000			650.6000											
182+50	LT	12	STATION TO STATION			LOCATION			DESCRIPTION			WHITE LF			YELLOW LF			STATION			LOCATION			SPV.0060.01			EACH														
184+00	LT/RT	24	104+20.46 - 263+30			C/L			C/L			---			31820			104+20.46 - 263+30			RT			EDGELINE			15910			---											
185+00	LT	12	104+20.46 - 263+30			RT			EDGELINE			15910			---			104+20.46 - 263+30			LT			EDGELINE			15910			---											
189+75	LT/RT	24	SUB TOTALS			31820			31820			PROJECT TOTAL			63640			STATION			LOCATION			SPV.0060.02			EACH														
190+25	LT/RT	24	PROJECT TOTAL			63640			STATION			LOCATION			SPV.0060.02			EACH			ENTIRE PROJECT			CTH D			10			PROJECT TOTALS			10			PROJECT TOTAL			11		
249+00	RT	12	PROJECT TOTAL			63640			STATION			LOCATION			SPV.0060.02			EACH			ENTIRE PROJECT			CTH D			10			PROJECT TOTALS			10			PROJECT TOTAL			11		
249+50	RT	12	PROJECT TOTAL			63640			STATION			LOCATION			SPV.0060.02			EACH			ENTIRE PROJECT			CTH D			10			PROJECT TOTALS			10			PROJECT TOTAL			11		
250+00	RT	12	PROJECT TOTAL			63640			STATION			LOCATION			SPV.0060.02			EACH			ENTIRE PROJECT			CTH D			10			PROJECT TOTALS			10			PROJECT TOTAL			11		
255+00	LT	12	PROJECT TOTAL			63640			STATION			LOCATION			SPV.0060.02			EACH			ENTIRE PROJECT			CTH D			10			PROJECT TOTALS			10			PROJECT TOTAL			11		
257+00	LT	12	PROJECT TOTAL			63640			STATION			LOCATION			SPV.0060.02			EACH			ENTIRE PROJECT			CTH D			10			PROJECT TOTALS			10			PROJECT TOTAL			11		
260+00	LT/RT	24	PROJECT TOTAL			63640			STATION			LOCATION			SPV.0060.02			EACH			ENTIRE PROJECT			CTH D			10			PROJECT TOTALS			10			PROJECT TOTAL			11		
261+00	LT	12	PROJECT TOTAL			63640			STATION			LOCATION			SPV.0060.02			EACH			ENTIRE PROJECT			CTH D			10			PROJECT TOTALS			10			PROJECT TOTAL			11		
262+00	RT	12	PROJECT TOTAL			63640			STATION			LOCATION			SPV.0060.02			EACH			ENTIRE PROJECT			CTH D			10			PROJECT TOTALS			10			PROJECT TOTAL			11		
262+25	RT	12	PROJECT TOTAL			63640			STATION			LOCATION			SPV.0060.02			EACH			ENTIRE PROJECT			CTH D			10			PROJECT TOTALS			10			PROJECT TOTAL			11		
UNDISTRIBUTED		135	PROJECT TOTAL			63640			STATION			LOCATION			SPV.0060.02			EACH			ENTIRE PROJECT			CTH D			10			PROJECT TOTALS			10			PROJECT TOTAL			11		
PROJECT TOTAL		675	PROJECT TOTAL			63640			STATION			LOCATION			SPV.0060.02			EACH			ENTIRE PROJECT			CTH D			10			PROJECT TOTALS			10			PROJECT TOTAL			11		
(1) ACTUAL CENTERLINE QUANTITY TO BE DETERMINED BASED ON LOCATING NO-PASSING ZONES.																																									

COUNTY OF DOUGLAS HIGHWAY DEPARTMENT

TRANSPORTATION PROJECT PLAT TITLE SHEET

PROJECT 8766-00-01 CTH B - STH 13

(CTH B TO EVANS LANE)

CTH D DOUGLAS COUNTY



CONVENTIONAL SYMBOLS

SECTION LINE	---	SECTION CORNER SYMBOL		R/W MONUMENT (TO BE SET)	•
QUARTER LINE	---	SECTION CORNER MONUMENT		NON-MONUMENTED R/W POINT	o
SIXTEENTH LINE	---	GEODETIC SURVEY MONUMENT		FOUND IRON PIN (1-INCH UNLESS NOTED)	IP
NEW REFERENCE LINE	---	SIXTEENTH CORNER MONUMENT		OFF-PREMISE SIGN	
NEW R/W LINE	---	SIGN			
EXISTING R/W OR HE LINE	---				
PROPERTY LINE	---				
LOT, TIE & OTHER MINOR LINES	---				
SLOPE INTERCEPT	---				
CORPORATE LIMITS	---				
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC)	---				
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)	---				
TEMPORARY LIMITED EASEMENT AREA	---				
EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)	---				
TRANSMISSION STRUCTURES	---				
BUILDING	---				
BRIDGE	---				

CONVENTIONAL ABBREVIATIONS

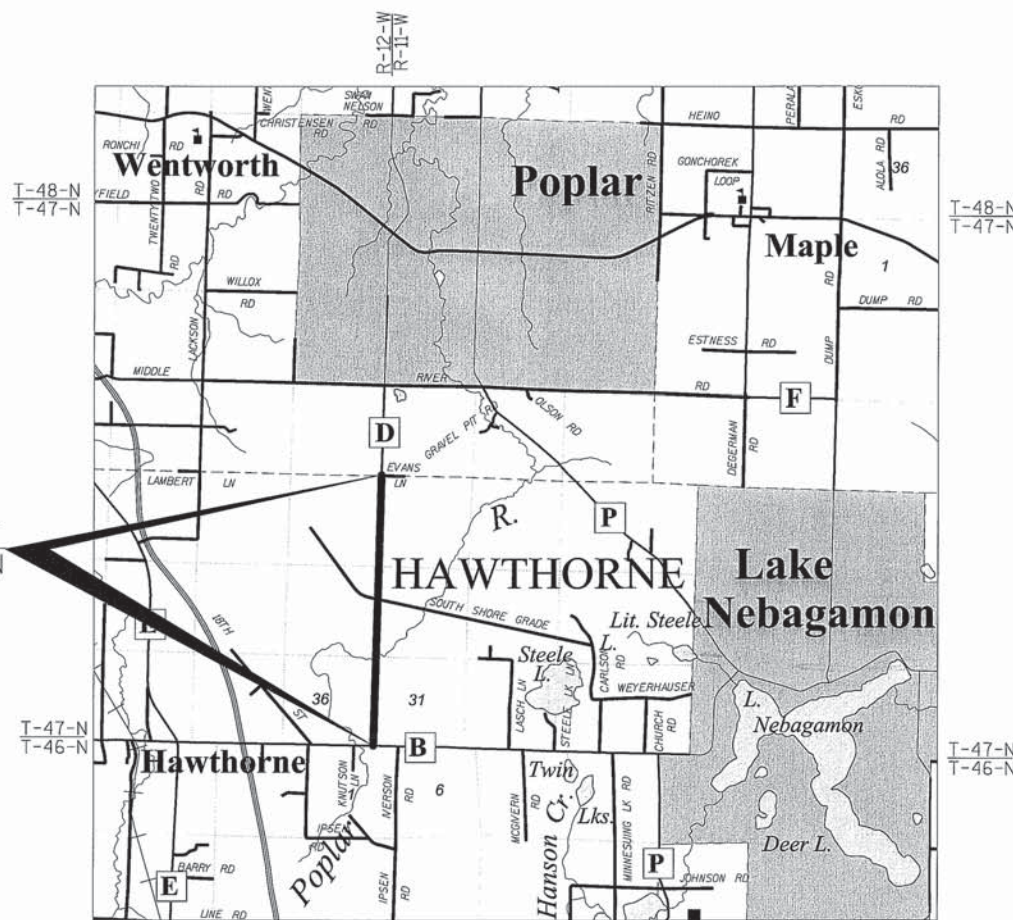
ACCESS RIGHTS	AR	POINT OF INTERSECTION	PI
ACRES	AC	PROPERTY LINE	PL
AHEAD	AH	RECORDED AS	(100')
ALUMINUM	ALUM	REEL / IMAGE	R/I
AND OTHERS	ET AL	REFERENCE LINE	R/L
BACK	BK	REMAINING	REM
BLOCK	BLK	RESTRICTIVE DEVELOPMENT	RDE
CENTERLINE	C/L	EASEMENT	
CERTIFIED SURVEY MAP	CSM	RIGHT	RT
CONCRETE	CONC	RIGHT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

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE	Δ/DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

CONVENTIONAL UTILITY SYMBOLS

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



NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DOUGLAS COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 3/4" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED BY OTHERS PRIOR TO THE COMPLETION OF THE 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.

DIMENSIONING 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.

A **PERMANENT LIMITED EASEMENT (PLE)** IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND 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, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHTS TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

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

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:

EXISTING HIGHWAY RIGHT-OF-WAY FOR CTH D ESTABLISHED FROM CSM 382 AND CSM 754 AND WISCONSIN STATUTE 82.31 (2) (a) WHICH ESTABLISHES THE WIDTH AT 4 RODS (66 FEET) AND CENTERED ON THE RANGE LINE BETWEEN R11W AND R12W.

EXISTING HIGHWAY RIGHT-OF-WAY FOR CTH B ESTABLISHED FROM VOLUME 281, PAGE 460 AND WISCONSIN STATUTE 82.31 (2) (a) WHICH ESTABLISHES THE WIDTH AT 4 RODS (66 FEET) AND CENTERED ON THE TOWNSHIP LINE BETWEEN T46N AND T47N.

EXISTING RIGHT-OF-WAY FOR SOUTH SHORE GRADE ESTABLISHED FROM RIGHT-OF-WAY DEED RECORDED 11/2/1892 IN VOLUME 42 AS DOCUMENT 971231, THE DULUTH, SOUTH SHORE & ATLANTIC RAILROAD RIGHT-OF-WAY & TRACK MAP DATED 6/30/1916, VOLUME 184, PAGE 289 AND CSM 754 WITH A WIDTH OF 100 FEET.

EXISTING RIGHT-OF-WAY FOR EVANS LANE ESTABLISHED FROM WISCONSIN STATUTE 82.31 (2) (a) WHICH ESTABLISHES THE WIDTH AT 4 RODS (66 FEET) AND CENTERED ON THE SECTION LINE BETWEEN SECTIONS 18 AND 19, T47N, R11W.



RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8766-00-01-4.01
SHEET 2 OF 2
AMENDMENT NO:

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW ACRES	R/W EXISTING ACRES	R/W TOTAL ACRES	TILE ACRES
40	PHILLIP G. KNUDSEN	FEE & TLE	0.59	1.03	1.62	0.40
41	JOEL R. PFISTNER	FEE & TLE	0.34	0.50	0.84	0.06
42	ALBERT L. KNUDSON, JUNE M. KNUDSON, LOIS J. PITZEL, THOMAS J. KNUDSON, PHILLIP G. KNUDSON, DONALD L. KNUDSON, & CARL M. KNUDSON	FEE & TLE	0.69	1.50	2.19	0.30
43	HARMEN DEBOER & LORRAINE F. DEBOER	FEE & TLE	0.06	0.18	0.24	0.09
44	ROBERT D. LILJEGREN & RANDALL L. LILJEGREN	FEE & TLE	0.34	0.82	1.16	0.33

SCHEDULE OF UTILITIES & INTERESTS REQUIRED

PARCEL NO.	OWNER(S)	INTEREST REQUIRED
100	CENTURYLINK (SOLON SPRINGS TELEPHONE COMPANY)	RELEASE OF RIGHTS
101	DAHLBERG LIGHT & POWER COMPANY	RELEASE OF RIGHTS

UTILITY EASEMENT INFORMATION

UTILITY	RECORDING INFORMATION	PARCEL(S)
CENTURYLINK (SOLON SPRINGS TELEPHONE COMPANY)	NO EASEMENTS OF RECORD	41-44
DAHLBERG LIGHT & POWER COMPANY	V. 284, PG. 372, DOC. NO. 476788	42
DAHLBERG LIGHT & POWER COMPANY	NO EASEMENTS OF RECORD	41, 43-44

TRANSPORTATION PROJECT PLAT NO: 8766-00-01-4.01

PART OF THE FRACTIONAL NW 1/4 OF THE SW 1/4 AND PART OF THE FRACTIONAL SW 1/4 OF THE SW 1/4 OF SECTION 31, TOWNSHIP 47 NORTH, RANGE 11 WEST; PART OF THE NE 1/4 OF THE SE 1/4 AND PART OF THE SE 1/4 OF THE SE 1/4 OF SECTION 36, TOWNSHIP 47 NORTH, RANGE 12 WEST, ALL BEING IN THE TOWN OF HAWTHORNE, DOUGLAS COUNTY, WISCONSIN.

RELOCATION ORDER, COUNTY HIGHWAY D, CTH B - STH 13 (CTH B TO EVANS LANE)

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE COUNTY OF DOUGLAS HIGHWAY DEPARTMENT DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02(3), 84.09 AND 84.30, WISCONSIN STATUTES, DOUGLAS COUNTY HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAY OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY DOUGLAS COUNTY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF DOUGLAS COUNTY, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (D), WISCONSIN STATUTES.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:

EXISTING HIGHWAY RIGHT-OF-WAY FOR CTH D ESTABLISHED FROM WISCONSIN STATUTE 82.31(2) (a) WHICH ESTABLISHES THE WIDTH AT 4 RODS (66 FEET) AND CENTERED ON THE RANGE LINE BETWEEN R11W AND R12W.

EXISTING HIGHWAY RIGHT-OF-WAY FOR CTH B ESTABLISHED FROM VOLUME 281, PAGE 460 AND WISCONSIN STATUTE 82.31(2) (a) WHICH ESTABLISHES THE WIDTH AT 4 RODS (66 FEET) AND CENTERED ON THE TOWNSHIP LINE BETWEEN T46N AND T47N.

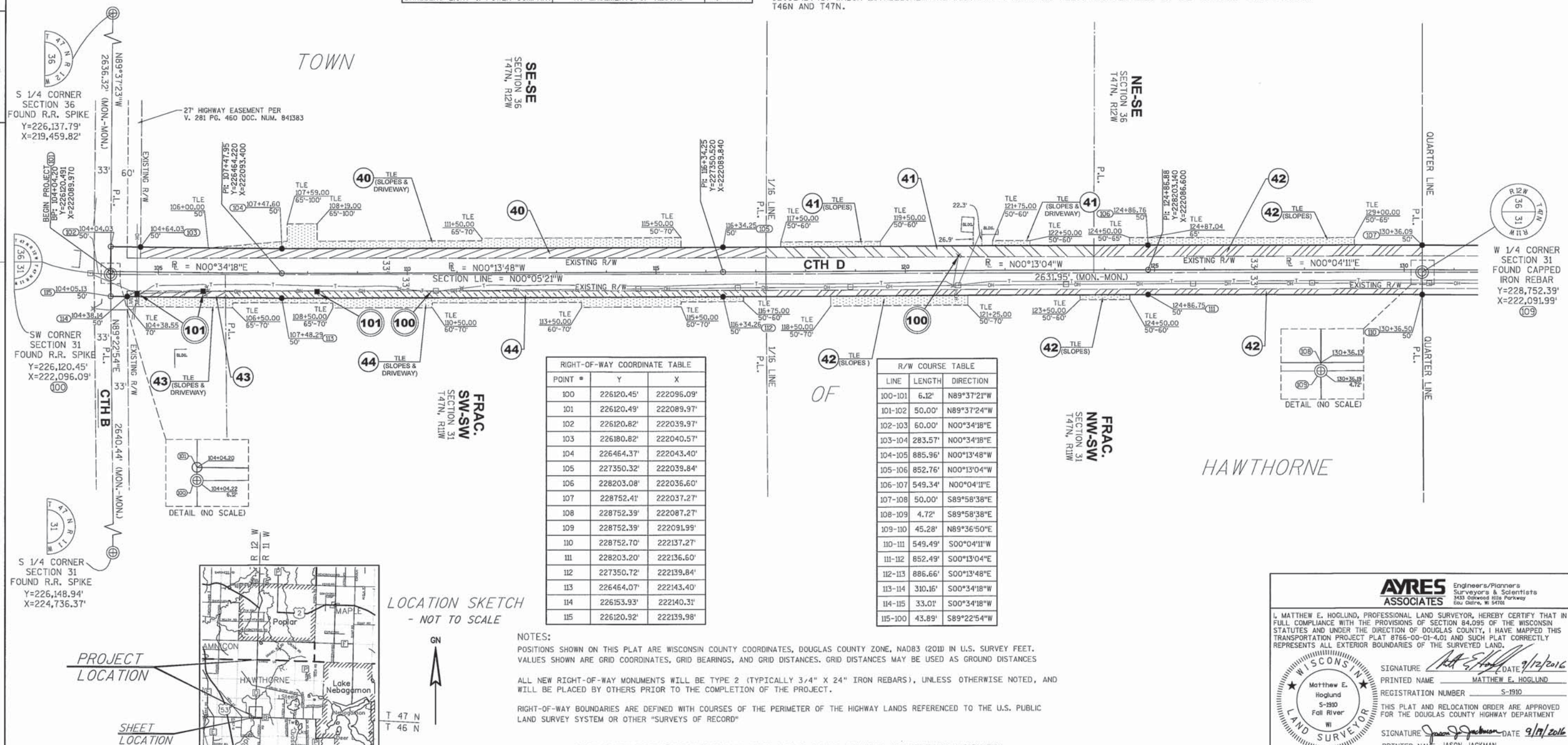
ACCEPTED FOR Recording and Filing in
The Office of the Register of Deeds
in Douglas County, Wisconsin at
9:20 AM on 09-21-2016

as Document # 884071 and
Filed in TPA Vol 102 Pg 21-22

Signature of Register of Deeds
Deputy

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8766-00-01-4.01
AMENDMENT NO:
SHEET 1 OF 2

SCALE, FEET
0 100 200



POINT #	Y	X
100	226120.45'	222096.09'
101	226120.49'	222089.97'
102	226120.82'	222039.37'
103	226180.82'	222040.57'
104	226464.37'	222043.40'
105	227350.32'	222039.84'
106	228203.08'	222036.60'
107	228752.41'	222037.27'
108	228752.39'	222087.27'
109	228752.39'	222091.99'
110	228752.70'	222137.27'
111	228203.20'	222136.60'
112	227350.72'	222139.84'
113	226464.07'	222143.40'
114	226153.93'	222140.31'
115	226120.92'	222139.98'

LINE	LENGTH	DIRECTION
100-101	6.12'	N89°37'21"W
101-102	50.00'	N89°37'24"W
102-103	60.00'	N00°34'18"E
103-104	283.57'	N00°34'18"E
104-105	885.96'	N00°13'48"W
105-106	852.76'	N00°13'04"W
106-107	549.34'	N00°04'11"E
107-108	50.00'	S89°58'38"E
108-109	4.72'	S89°58'38"E
109-110	45.28'	N89°36'50"E
110-111	549.49'	S00°04'11"W
111-112	852.49'	S00°13'04"E
112-113	886.66'	S00°13'48"E
113-114	310.16'	S00°34'18"W
114-115	33.01'	S00°34'18"W
115-100	43.89'	S89°22'54"W

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DOUGLAS COUNTY ZONE, NAD83 (2011) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 3/4" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED BY OTHERS PRIOR TO THE COMPLETION OF THE 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 RECORD"

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF THIS DOCUMENT, FOR ADDITIONAL INFORMATION

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW ACRES	R/W EXISTING ACRES	R/W TOTAL ACRES	TLE ACRES	PLE ACRES
42	ALBERT L. KNUDSON, JUNE M. KNUDSON, LOIS J. PITZELE, THOMAS J. KNUDSON, PHILLIP G. KNUDSON, DONALD L. KNUDSON, & CARL M. KNUDSON	FEE & TLE	0.69	1.00	1.69	0.08	----
48	RYAN M. MAGDZAS & KAITI N. MAGDZAS	FEE, TLE, & PLE	0.59	1.00	1.59	0.07	0.07
49	STEVEN M. MORLEY & SUSAN D. MORLEY	FEE & TLE	0.34	1.00	1.34	0.07	----
50	STEVE LEPAGE	FEE, TLE, & PLE	0.43	1.00	1.43	0.07	0.07

SCHEDULE OF UTILITIES & INTERESTS REQUIRED

PARCEL NO.	OWNER(S)	INTEREST REQUIRED
100	CENTURYLINK (OLON SPRINGS TELEPHONE COMPANY)	RELEASE OF RIGHTS
101	DAHLBERG LIGHT & POWER COMPANY	RELEASE OF RIGHTS

UTILITY EASEMENT INFORMATION

UTILITY	RECORDING INFORMATION	PARCEL(S)
CENTURYLINK (OLON SPRINGS TELEPHONE COMPANY)	NO EASEMENTS OF RECORD	42, 48-50
DAHLBERG LIGHT & POWER COMPANY	NO EASEMENTS OF RECORD	49
DAHLBERG LIGHT & POWER COMPANY	DOC. NO. 841383	50
DAHLBERG LIGHT & POWER COMPANY	DOC. NO. 856266	50

TRANSPORTATION PROJECT PLAT NO: 8766-00-01-4.02

PART OF THE FRACTIONAL NW 1/4 OF THE NW 1/4 AND PART OF THE FRACTIONAL SW 1/4 OF THE NW 1/4 OF SECTION 31,
TOWNSHIP 47 NORTH, RANGE 11 WEST; PART OF THE NE 1/4 OF THE NE 1/4 AND PART OF THE SE 1/4 OF THE NE 1/4 OF
SECTION 36, TOWNSHIP 47 NORTH, RANGE 12 WEST, ALL BEING IN THE TOWN OF HAWTHORNE, DOUGLAS COUNTY, WISCONSIN.

RELOCATION ORDER, COUNTY HIGHWAY D, CTH B - STH 13 (CTH B TO EVANS LANE)

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE COUNTY OF
DOUGLAS HIGHWAY DEPARTMENT DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE
NAMED PROJECT.

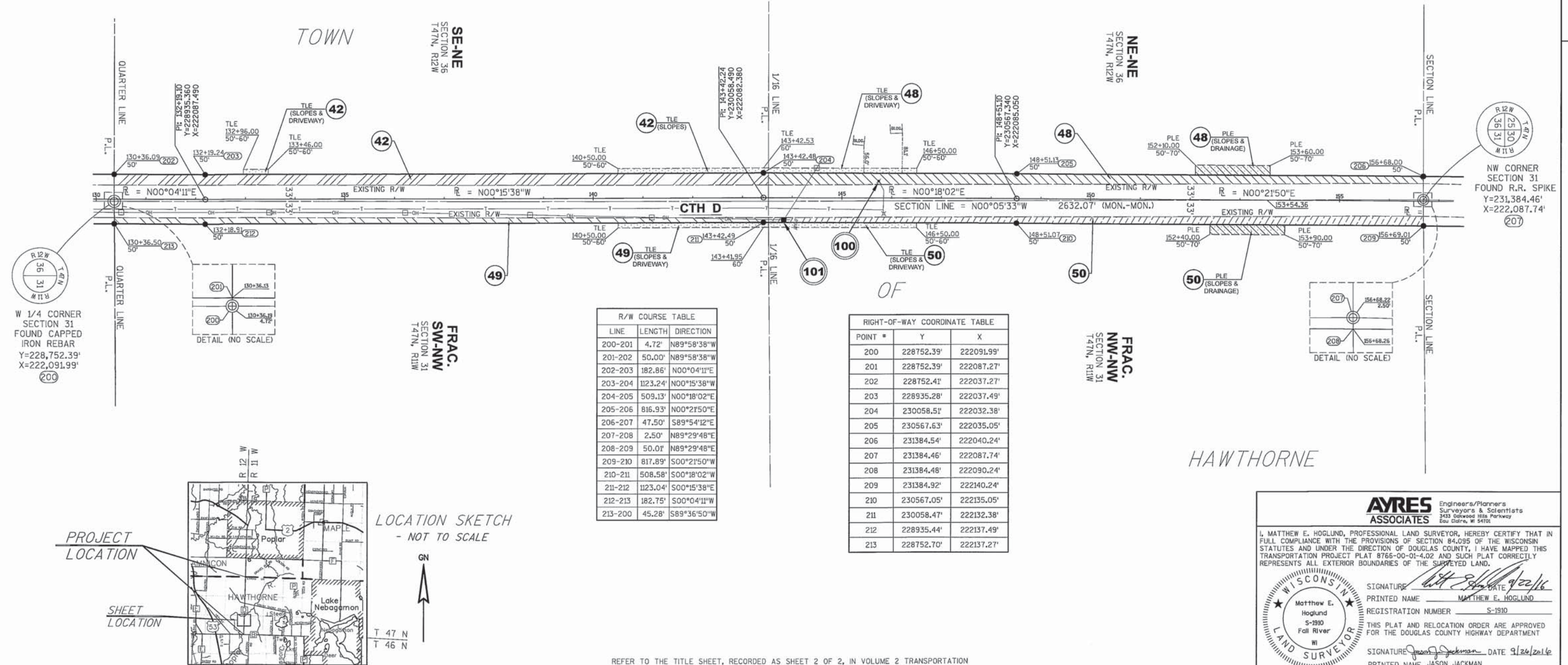
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02(3), 84.09 AND 84.30, WISCONSIN STATUTES, DOUGLAS COUNTY HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY DOUGLAS COUNTY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF
DOUGLAS COUNTY, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (D), WISCONSIN STATUTES.

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DOUGLAS COUNTY ZONE, NAD83 (2011) IN U.S. SURVEY FEET.
VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCESALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 3/4" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND
WILL BE PLACED BY OTHERS PRIOR TO THE COMPLETION OF THE 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 RECORD"

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:

EXISTING HIGHWAY RIGHT-OF-WAY FOR CTH D ESTABLISHED FROM WISCONSIN STATUTE 82.31(2)(a)
WHICH ESTABLISHES THE WIDTH AT 4 RODS (66 FEET) AND CENTERED ON THE RANGE LINE BETWEEN
R11W AND R12W.ACCEPTED FOR RECORDING AND
FILING IN THE OFFICE OF THE
REGISTER OF DEEDS INDouglas COUNTY,
WISCONSIN AT 8:00 A.M. ON
09-27-2016 AND FILED IN
TPP Vol 09 Pg 23 as Document
884184Pat van Nalen
SIGNATURE OF REGISTER OF DEEDS
DeputyRESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8766-00-01-4.02
AMENDMENT NO:SCALE, FEET
0 100 200

LINE	LENGTH	DIRECTION
200-201	4.72'	N89°58'38"W
201-202	50.00'	N89°58'38"W
202-203	182.86'	N00°04'11"E
203-204	1123.24'	N00°15'38"W
204-205	509.13'	N00°18'02"E
205-206	816.93'	N00°21'50"E
206-207	47.50'	S89°54'12"E
207-208	2.50'	N89°29'48"E
208-209	50.01'	N89°29'48"E
209-210	817.89'	S00°21'50"W
210-211	508.58'	S00°18'02"W
211-212	1123.04'	S00°15'38"E
212-213	182.75'	S00°04'11"E
213-200	45.28'	S89°36'50"W

POINT #	Y	X
200	228752.39'	222091.99'
201	228752.39'	222087.27'
202	228752.41'	222037.27'
203	228935.28'	222037.49'
204	230058.51'	222032.38'
205	230567.63'	222035.05'
206	231384.54'	222040.24'
207	231384.46'	222087.74'
208	231384.48'	222090.24'
209	231384.92'	222140.24'
210	230567.05'	222135.05'
211	230058.47'	222132.38'
212	228935.44'	222137.49'
213	228752.70'	222137.27'

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN VOLUME 2 TRANSPORTATION
PROJECT PLATS, PAGE 22, AS DOCUMENT NUMBER 884071 FOR ADDITIONAL INFORMATION

PLOT DATE : 9/22/2016

PLOT BY : HOGGLUND, MATTHEW

PLOT NAME :

PLOT SCALE : *****

8766-00-01 4.02

AYRES Associates
Engineers/Planners
Surveyors & Scientists
3433 Oakwood Hills Parkway
Eau Claire, WI 54601I, MATTHEW E. HOGGLUND, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN
FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN
STATUTES AND UNDER THE DIRECTION OF DOUGLAS COUNTY, I HAVE MAPPED THIS
TRANSPORTATION PROJECT PLAT 8766-00-01-4.02 AND SUCH PLAT CORRECTLY
REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.SIGNATURE: *Matthew E. Hoglund* DATE: 9/22/16
PRINTED NAME: MATTHEW E. HOGGLUND
REGISTRATION NUMBER: S-1910
THIS PLAT AND RELOCATION ORDER ARE APPROVED
FOR THE DOUGLAS COUNTY HIGHWAY DEPARTMENT
SIGNATURE: *Jason Jackman* DATE: 9/26/2016
PRINTED NAME: JASON JACKMAN

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW ACRES	R/W EXISTING ACRES	R/W TOTAL ACRES	TLE ACRES	PLE ACRES
51	DOUGLAS COUNTY	HE, TLE, & PLE	0.53	1.00	1.53	0.02	0.14
52	ROSE MARIE GIBSON	FEE & TLE	0.52	1.00	1.52	0.10	----
53	ALAN R. JOHNSON	FEE & PLE	0.69	1.38	2.07	----	0.14
55	RICKIE E RHEA & DEBRA K. RHEA	FEE	0.32	0.63	0.95	----	----

SCHEDULE OF UTILITIES & INTERESTS REQUIRED

PARCEL NO.	OWNER(S)	INTEREST REQUIRED
100	CENTURYLINK (SOLON SPRINGS TELEPHONE COMPANY)	RELEASE OF RIGHTS
101	DAHLBERG LIGHT & POWER COMPANY	RELEASE OF RIGHTS

UTILITY EASEMENT INFORMATION		
UTILITY	RECORDING INFORMATION	PARCEL(S)
CENTURYLINK (SOLON SPRINGS TELEPHONE COMPANY)	NO EASEMENTS OF RECORD	ALL
DAHLBERG LIGHT & POWER COMPANY	NO EASEMENTS OF RECORD	ALL

TRANSPORTATION PROJECT PLAT NO: 8766-00-01-4.03 AMENDMENT NO. 1

AMENDS PARCEL 51 OF TRANSPORTATION PROJECT PLAT 8766-00-01-4.03 RECORDED AS DOCUMENT NO. 884185 AND FILED IN VOLUME 2 OF TRANSPORTATION PROJECT PLATS ON PAGE 24.

PART OF THE FRACTIONAL NW 1/4 OF THE SW 1/4 AND PART OF THE FRACTIONAL SW 1/4 OF THE SW 1/4 OF SECTION 30, TOWNSHIP 47 NORTH, RANGE 11 WEST; PART OF THE NE 1/4 OF THE SE 1/4 AND PART OF THE SE 1/4 OF THE SE 1/4 OF SECTION 25, TOWNSHIP 47 NORTH, RANGE 12 WEST, ALL BEING IN THE TOWN OF HAWTHORNE, DOUGLAS COUNTY, WISCONSIN.

RELOCATION ORDER, COUNTY HIGHWAY D, CTH B - STH 13 (CTH B TO EVANS LANE)

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE COUNTY OF DOUGLAS HIGHWAY DEPARTMENT DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02(3), 84.09 AND 84.30, WISCONSIN STATUTES, DOUGLAS COUNTY HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY DOUGLAS COUNTY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF DOUGLAS COUNTY, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (d), WISCONSIN STATUTES.

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DOUGLAS COUNTY ZONE, NAD83 (2011) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 3/4" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED BY OTHERS PRIOR TO THE COMPLETION OF THE 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 RECORD"

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:

EXISTING HIGHWAY RIGHT-OF-WAY FOR CTH D ESTABLISHED FROM WISCONSIN STATUTE 82.31 (2) (a) WHICH ESTABLISHES THE WIDTH AT 4 RODS (66 FEET) AND CENTERED ON THE RANGE LINE BETWEEN R11W AND R12W.

A HIGHWAY EASEMENT (HE) IS AN EASEMENT FOR HIGHWAY PURPOSES, AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE.

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN

Douglas COUNTY,

WISCONSIN AT 11:45 A.M. ON

11-03-2016 AND FILED IN

TPP 16102 Pg 28 as Document

885147

Cathryn M Salas

SIGNATURE OF REGISTER OF DEEDS

Deputy

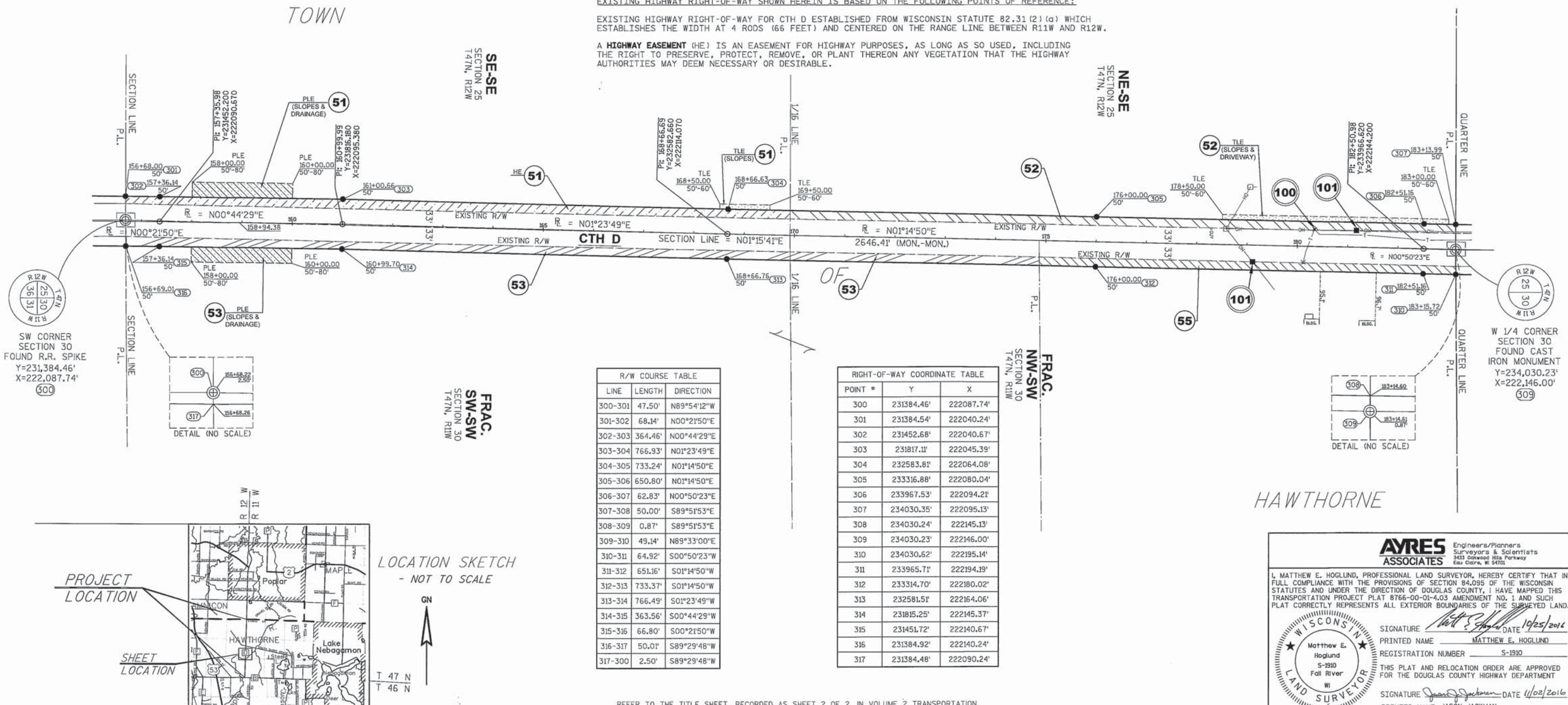
RESERVED FOR REGISTER OF DEEDS

PROJECT NUMBER 8766-00-01-4.03

AMENDMENT NO: 1

SCALE, FEET
0 100 200

N



REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN VOLUME 2 TRANSPORTATION PROJECT PLATS, PAGE 22, AS DOCUMENT NUMBER 884071 FOR ADDITIONAL INFORMATION

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW ACRES	R/W EXISTING ACRES	R/W TOTAL ACRES	TLE ACRES
51	DOUGLAS COUNTY	HE & TLE	0.84	1.93	2.77	0.05
59	THE REVOCABLE TRUST OF JAMES JACOBS & THE REVOCABLE TRUST OF DIANA MILLER	FEE & TLE	0.27	0.48	0.75	0.02
60	STEPHEN E. MOLLER & HEATHER L. SMITH	FEE & TLE	0.11	0.17	0.28	0.05
61	RABIDEAUX LIVING TRUST	FEE	0.77	1.28	2.05	----

SCHEDULE OF UTILITIES & INTERESTS REQUIRED

PARCEL NO.	OWNER(S)	INTEREST REQUIRED
100	CENTURYLINK (SOLON SPRINGS TELEPHONE COMPANY)	RELEASE OF RIGHTS
101	DAHLBERG LIGHT & POWER COMPANY	RELEASE OF RIGHTS

UTILITY	RECORDING INFORMATION	PARCEL(S)
CENTURYLINK (SOLON SPRINGS TELEPHONE COMPANY)	V. 433, P. 815, DOC. NO. 587986	51*
CENTURYLINK (SOLON SPRINGS TELEPHONE COMPANY)	NO EASEMENTS OF RECORD	59-62
DAHLBERG LIGHT & POWER COMPANY	DOC. NO. 725349	60
DAHLBERG LIGHT & POWER COMPANY	NO EASEMENTS OF RECORD	51, 59, 61-62

*NOTE: V. 433, P. 815, DOC. NO. 587986 ONLY PERTAINS TO THE NE 1/4 OF THE NE 1/4 SECTION 25

TRANSPORTATION PROJECT PLAT NO: 8766-00-01-4.04 AMENDMENT NO. 1

AMENDS PARCEL 51 OF TRANSPORTATION PROJECT PLAT 8766-00-01-4.04 RECORDED AS DOCUMENT NO. 884186 AND FILED IN VOLUME 2 OF TRANSPORTATION PROJECT PLATS ON PAGE 25.

PART OF THE LOT 1 OF CERTIFIED SURVEY MAP 754 RECORDED IN VOLUME 5 OF CERTIFIED SURVEY MAPS ON PAGE 194 AS DOCUMENT NUMBER 726578, LOCATED IN THE FRACTIONAL SW 1/4 OF THE NW 1/4 AND PART OF THE FRACTIONAL NW 1/4 OF THE NW 1/4 AND PART OF THE FRACTIONAL SW 1/4 OF THE NW 1/4 OF SECTION 30, TOWNSHIP 47 NORTH, RANGE 11 WEST; PART OF THE NE 1/4 OF THE NE 1/4 AND PART OF THE SE 1/4 OF THE NE 1/4 OF SECTION 25, TOWNSHIP 47 NORTH, RANGE 12 WEST, ALL BEING IN THE TOWN OF HAWTHORNE, DOUGLAS COUNTY, WISCONSIN.

RELOCATION ORDER, COUNTY HIGHWAY D, CTH B - STH 13 (CTH B TO EVANS LANE)

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE COUNTY OF DOUGLAS HIGHWAY DEPARTMENT DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02(3), 84.09 AND 84.30, WISCONSIN STATUTES, DOUGLAS COUNTY HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY DOUGLAS COUNTY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF DOUGLAS COUNTY, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (3), WISCONSIN STATUTES.

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DOUGLAS COUNTY ZONE, NAD83 (2011) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 3/4" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED BY OTHERS PRIOR TO THE COMPLETION OF THE 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 RECORD"

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:

EXISTING HIGHWAY RIGHT-OF-WAY FOR CTH D ESTABLISHED FROM CSM 754 AND WISCONSIN STATUTE 82.31 (2) (a) WHICH ESTABLISHES THE WIDTH AT 4 RODS (66 FEET) AND CENTERED ON THE RANGE LINE BETWEEN R11W AND R12W.

EXISTING RIGHT-OF-WAY FOR SOUTH SHORE GRADE ESTABLISHED FROM RIGHT-OF-WAY DEED RECORDED 11/2/1892 IN VOLUME 42 AS DOCUMENT 971231, THE DULUTH, SOUTH SHORE & ATLANTIC RAILROAD RIGHT-OF-WAY & TRACK MAP DATED 6/30/1916, DEED TO TOWN OF HAWTHORNE PER VOLUME 184, PAGE 289 AND CSM 754 WITH A WIDTH OF 100 FEET.

A HIGHWAY EASEMENT (HE) IS AN EASEMENT FOR HIGHWAY PURPOSES, AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE.

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN

Douglas COUNTY,

WISCONSIN AT 11:45 A.M. ON

11-03-2016 AND FILED IN

TPP Vol 102 Pg. 29 as Document

885148

Cathryn M. Salas

SIGNATURE OF REGISTER OF DEEDS

Deputy

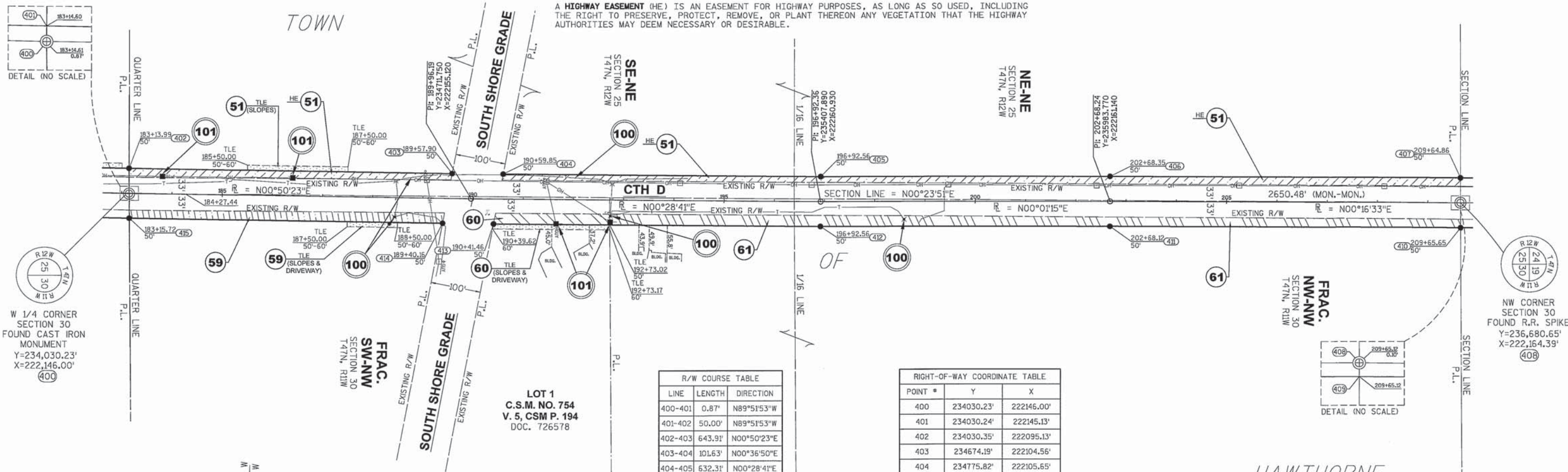
RESERVED FOR REGISTER OF DEEDS

PROJECT NUMBER 8766-00-01-4.04

AMENDMENT NO: 1

SCALE, FEET
0 100 200

2



LINE	LENGTH	DIRECTION
400-401	0.87'	N89°51'53"W
401-402	50.00'	N89°51'53"W
402-403	643.91'	N00°50'23"E
403-404	101.63'	N00°36'50"E
404-405	632.31'	N00°28'41"E
405-406	575.79'	N00°01'15"E
406-407	696.73'	N00°16'33"E
407-408	49.90'	N89°58'23"E
408-409	0.10'	N89°40'01"E
409-410	50.00'	N89°40'01"E
410-411	697.31'	S00°16'33"W
411-412	575.97'	S00°01'15"W
412-413	651.10'	S00°28'41"W
413-414	101.61'	S00°40'41"W
414-415	624.44'	S00°50'23"W
415-400	49.14'	S89°33'00"W

POINT #	Y	X
400	234030.23'	222146.00'
401	234030.24'	222145.13'
402	234030.35'	222095.13'
403	234674.19'	222104.55'
404	234775.82'	222105.55'
405	235408.11'	222110.93'
406	235983.90'	222111.14'
407	236680.62'	222114.49'
408	236680.65'	222164.39'
409	236680.65'	222164.50'
410	236680.94'	222214.50'
411	235983.64'	222211.14'
412	235407.67'	222210.93'
413	234756.60'	222205.49'
414	234654.99'	222204.29'
415	234030.62'	222195.14'

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN VOLUME 2 TRANSPORTATION PROJECT PLATS, PAGE 22, AS DOCUMENT NUMBER 884071 FOR ADDITIONAL INFORMATION

AYRES ASSOCIATES Engineers/Planners
Surveyors & Scientists
3433 Oakwood Hills Parkway
Eau Claire, WI 54601

I, MATTHEW E. HOGUND, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF DOUGLAS COUNTY, I HAVE MAPPED THIS TRANSPORTATION PROJECT PLAT 8766-00-01-4.04 AMENDMENT NO. 1 AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE *Matthew E. Hoglund* DATE 10/25/2016
PRINTED NAME MATTHEW E. HOGUND
REGISTRATION NUMBER S-1910

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE DOUGLAS COUNTY HIGHWAY DEPARTMENT

SIGNATURE *Jason Jackman* DATE 11/02/2016
PRINTED NAME JASON JACKMAN

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW ACRES	R/W EXISTING ACRES	R/W TOTAL ACRES	TLE ACRES
51	DOUGLAS COUNTY	HE & TLE	0.76	1.49	2.25	0.05
65	LOWELL LEVINE & TINA A. BURNS	FEE & TLE	0.50	1.00	1.50	0.04
66	MARK AMYS, GREG AMYS, GARY AMYS, KEVIN AMYS, & DEAN AMYS	FEE	0.26	0.50	0.76	----
68	JEFFERY A. WYSZYNSKI & MARCIA L. WYSZYNSKI	FEE	0.53	1.00	1.53	----

SCHEDULE OF UTILITIES & INTERESTS REQUIRED

PARCEL NO.	OWNER(S)	INTEREST REQUIRED
100	CENTURYLINK (SOLON SPRINGS TELEPHONE COMPANY)	RELEASE OF RIGHTS
101	DAHLBERG LIGHT & POWER COMPANY	RELEASE OF RIGHTS

UTILITY EASEMENT INFORMATION

UTILITY	RECORDING INFORMATION	PARCEL(S)
CENTURYLINK (SOLON SPRINGS TELEPHONE COMPANY)	V. 433, P. 814, DOC. NO. 587935	65
CENTURYLINK (SOLON SPRINGS TELEPHONE COMPANY)	NO EASEMENTS OF RECORD	51, 66, 68
DAHLBERG LIGHT & POWER COMPANY	DOC. NO. 715675	68
DAHLBERG LIGHT & POWER COMPANY	NO EASEMENTS OF RECORD	51, 65, 66

TRANSPORTATION PROJECT PLAT NO: 8766-00-01-4.05 AMENDMENT NO. 1

AMENDS PARCEL 51 OF TRANSPORTATION PROJECT PLAT 8766-00-01-4.05 RECORDED AS DOCUMENT NO. 884187 AND FILED IN VOLUME 2 OF TRANSPORTATION PROJECT PLATS ON PAGE 26.

PART OF THE FRACTIONAL NW 1/4 OF THE SW 1/4 AND PART OF THE FRACTIONAL SW 1/4 OF THE SW 1/4 OF SECTION 19, TOWNSHIP 47 NORTH, RANGE 11 WEST; PART OF THE NE 1/4 OF THE SE 1/4 AND PART OF THE SE 1/4 OF THE SE 1/4 OF SECTION 24, TOWNSHIP 47 NORTH, RANGE 12 WEST, ALL BEING IN THE TOWN OF HAWTHORNE, DOUGLAS COUNTY, WISCONSIN.

RELOCATION ORDER, COUNTY HIGHWAY D, CTH B - STH 13 (CTH B TO EVANS LANE)

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE COUNTY OF DOUGLAS HIGHWAY DEPARTMENT DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02(3), 84.09 AND 84.30, WISCONSIN STATUTES, DOUGLAS COUNTY HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY DOUGLAS COUNTY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF DOUGLAS COUNTY, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (d), WISCONSIN STATUTES.

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DOUGLAS COUNTY ZONE, NAD83 (2011) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 3/4" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED BY OTHERS PRIOR TO THE COMPLETION OF THE 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 RECORD"

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:

EXISTING HIGHWAY RIGHT-OF-WAY FOR CTH D ESTABLISHED FROM WISCONSIN STATUTE 82.31 (2) (a) WHICH ESTABLISHES THE WIDTH AT 4 RODS (66 FEET) AND CENTERED ON THE RANGE LINE BETWEEN R11W AND R12W.

A HIGHWAY EASEMENT (HE) IS AN EASEMENT FOR HIGHWAY PURPOSES, AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE.

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN

Douglas COUNTY,

WISCONSIN AT 11:45 A.M. ON

11-03-2016 AND FILED IN

TPP Vol 2 Pg 30 as Document

885149

Cathryn M. Salus

SIGNATURE OF REGISTER OF DEEDS

Deputy

RESERVED FOR REGISTER OF DEEDS

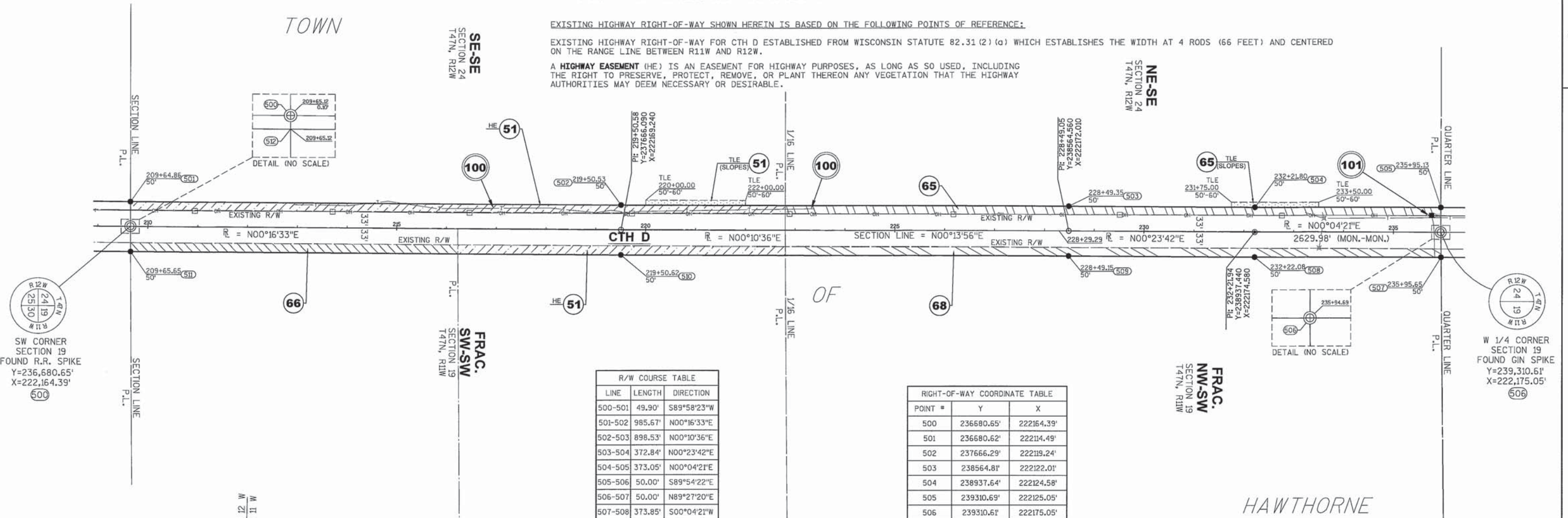
PROJECT NUMBER 8766-00-01-4.05

AMENDMENT NO: 1

SCALE, FEET

0 100 200

2



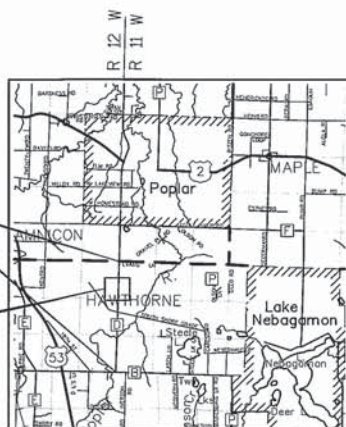
LINE	LENGTH	DIRECTION
500-501	49.90'	S89°58'23"W
501-502	985.67'	N00°16'33"E
502-503	898.53'	N00°10'36"E
503-504	372.84'	N00°23'42"E
504-505	373.05'	N00°04'21"E
505-506	50.00'	S89°54'22"E
506-507	50.00'	N89°27'20"E
507-508	373.85'	S00°04'21"W
508-509	372.94'	S00°23'42"W
509-510	898.42'	S00°10'36"W
510-511	984.96'	S00°16'33"W
511-512	50.00'	S89°40'01"W
512-500	0.10'	S89°40'01"W

POINT #	Y	X
500	236680.65'	222164.39'
501	236680.62'	222114.49'
502	237666.29'	222119.24'
503	238564.81'	222122.01'
504	238937.64'	222124.58'
505	239310.69'	222125.05'
506	239310.61'	222175.05'
507	239311.08'	222225.05'
508	238937.24'	222224.58'
509	238564.31'	222222.01'
510	237665.89'	222219.24'
511	236680.94'	222214.50'
512	236680.65'	222164.39'

PROJECT LOCATION

SHEET LOCATION

LOCATION SKETCH - NOT TO SCALE

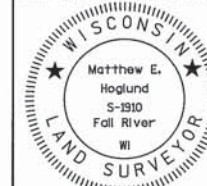


REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN VOLUME 2 TRANSPORTATION PROJECT PLATS, PAGE 22, AS DOCUMENT NUMBER 884071 FOR ADDITIONAL INFORMATION

AYRES ASSOCIATES

Engineers/Planners
Surveyors & Scientists
3439 Oakwood Hills Parkway
Eau Claire, WI 54601

I, MATTHEW E. HOGUND, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF DOUGLAS COUNTY, I HAVE MAPPED THIS TRANSPORTATION PROJECT PLAT 8766-00-01-4.05 AMENDMENT NO. 1 AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.



SIGNATURE *Matthew E. Hoglund* DATE 10/25/2016
 PRINTED NAME MATTHEW E. HOGUND
 REGISTRATION NUMBER S-1910
 THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE DOUGLAS COUNTY HIGHWAY DEPARTMENT
 SIGNATURE *Jason Jackman* DATE 11/02/2016
 PRINTED NAME JASON JACKMAN

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW ACRES	R/W EXISTING ACRES	R/W TOTAL ACRES	TLE ACRES
70	SCOTT MORELAND	FEE & TLE	0.58	1.00	1.58	0.01
71	RUSSELL R. RENQUIST IRREVOCABLE SUPPLEMENTAL NEEDS TRUST	FEE & TLE	0.59	1.00	1.59	0.03
72	JEFFERY E. NEVIN, JR., JEFFERY E. NEVIN, SR., AND BETTY LOU NEVIN	FEE & TLE	0.44	1.00	1.44	0.07
73	PEGGY J. FECHTELKOTTER AND JAMES B. BITTNER	FEE & TLE	0.13	0.32	0.45	0.01
74	KURT L. SCHMUDE AND LAURIE A. SCHMUDE	FEE	0.14	0.31	0.45	----
75	JOSHUA G. JOHNSON AND MEREDITH K. JOHNSON	FEE & TLE	0.16	0.38	0.54	0.01

SCHEDULE OF UTILITIES & INTERESTS REQUIRED

PARCEL NO.	OWNER(S)	INTEREST REQUIRED
100	CENTURYLINK (SOLON SPRINGS TELEPHONE COMPANY)	RELEASE OF RIGHTS
101	DAHLBERG LIGHT & POWER COMPANY	RELEASE OF RIGHTS

UTILITY EASEMENT INFORMATION		
UTILITY	RECORDING INFORMATION	PARCEL(S)
CENTURYLINK (SOLON SPRINGS TELEPHONE COMPANY)	V. 433, P. 813, DOC. NO. 587934	70
CENTURYLINK (SOLON SPRINGS TELEPHONE COMPANY)	V. 433, P. 812, DOC. NO. 587933	71
DAHLBERG LIGHT & POWER COMPANY	NO EASEMENTS OF RECORD	70 & 71

TRANSPORTATION PROJECT PLAT NO: 8766-00-01-4.06

PART OF LOT 1 AND LOT 4 OF CERTIFIED SURVEY MAP 382 RECORDED IN VOLUME 2 OF CERTIFIED SURVEY MAPS ON PAGE 230 AS DOCUMENT NUMBER 584931, LOCATED IN THE FRACTIONAL NW 1/4 OF THE NORTHWEST 1/4, AND PART OF THE FRACTIONAL NW 1/4 OF THE NW 1/4 AND PART OF THE FRACTIONAL SW 1/4 OF THE NW 1/4 OF SECTION 19, TOWNSHIP 47 NORTH, RANGE 11 WEST; PART OF THE NE 1/4 OF THE NE 1/4 AND PART OF THE SE 1/4 OF THE NE 1/4 OF SECTION 24, TOWNSHIP 47 NORTH, RANGE 12 WEST, ALL BEING IN THE TOWN OF HAWTHORNE, DOUGLAS COUNTY, WISCONSIN.

RELOCATION ORDER, COUNTY HIGHWAY D, CTH B - STH 13 (CTH B TO EVANS LANE)

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE COUNTY OF DOUGLAS HIGHWAY DEPARTMENT DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02(3), 84.09 AND 84.30, WISCONSIN STATUTES, DOUGLAS COUNTY HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY DOUGLAS COUNTY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF DOUGLAS COUNTY, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (D), WISCONSIN STATUTES.

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DOUGLAS COUNTY ZONE, NAD83 (2011) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES

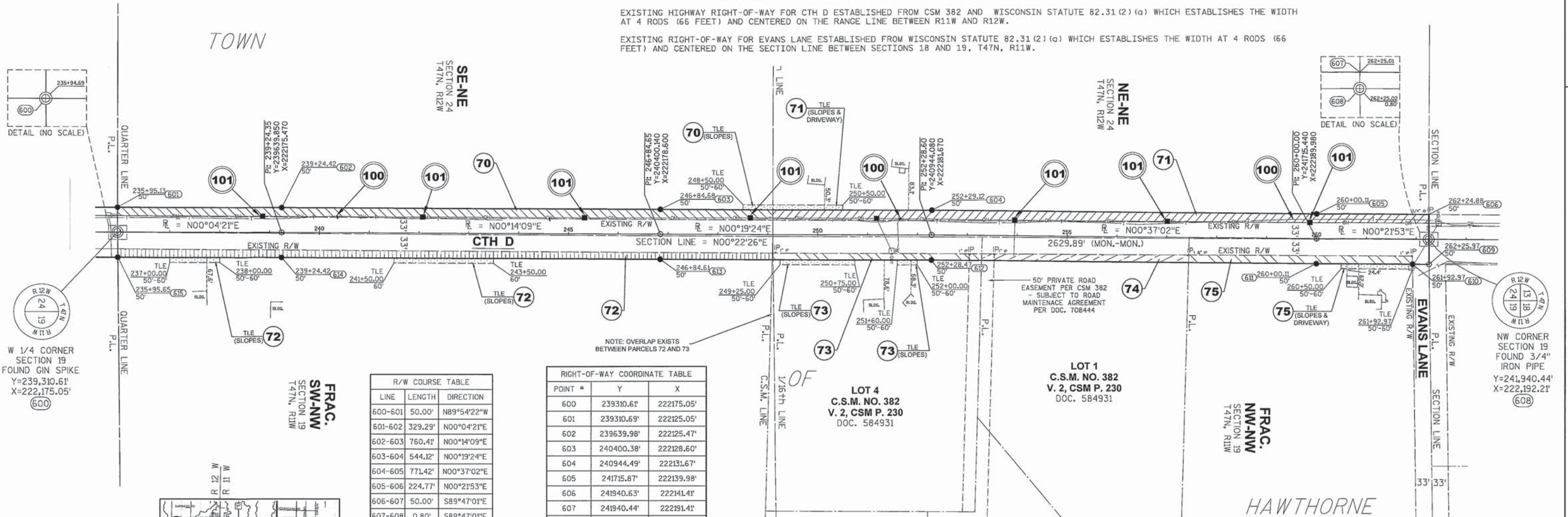
ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 3/4" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED BY OTHERS PRIOR TO THE COMPLETION OF THE PROJECT.

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 RECORD"

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:

EXISTING HIGHWAY RIGHT-OF-WAY FOR CTH D ESTABLISHED FROM CSM 382 AND WISCONSIN STATUTE 82.31(2)(a) WHICH ESTABLISHES THE WIDTH AT 4 RODS (66 FEET) AND CENTERED ON THE RANGE LINE BETWEEN R11W AND R12W.

EXISTING RIGHT-OF-WAY FOR EVANS LANE ESTABLISHED FROM WISCONSIN STATUTE 82.31(2)(a) WHICH ESTABLISHES THE WIDTH AT 4 RODS (66 FEET) AND CENTERED ON THE SECTION LINE BETWEEN SECTIONS 18 AND 19, T47N, R11W.

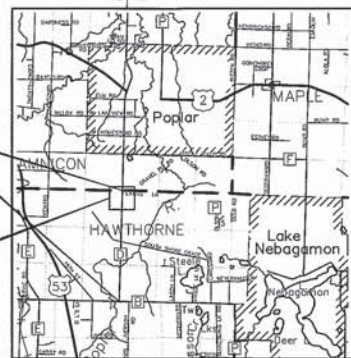


W 1/4 CORNER
SECTION 19
FOUND GIN SPIKE
Y=239,310.61'
X=222,175.05'
(600)

NW CORNER
SECTION 19
FOUND 3/4"
IRON PIPE
Y=241,940.44'
X=222,192.21'
(608)

R/W COURSE TABLE		
LINE	LENGTH	DIRECTION
600-601	50.00'	N89°54'22"W
601-602	329.29'	N00°04'21"E
602-603	760.41'	N00°14'09"E
603-604	544.12'	N00°19'24"E
604-605	771.42'	N00°37'02"E
605-606	224.77'	N00°21'53"E
606-607	50.00'	S89°47'01"E
607-608	0.80'	S89°47'01"E
608-609	49.21'	N89°14'36"E
609-610	33.01'	S00°21'53"W
610-611	193.08'	S00°21'53"W
611-612	771.39'	S00°37'02"W
612-613	543.78'	S00°19'24"W
613-614	760.19'	S00°14'09"W
614-615	328.63'	S00°04'21"W
615-600	50.00'	S89°27'20"W

RIGHT-OF-WAY COORDINATE TABLE		
POINT #	Y	X
600	239310.61'	222175.05'
601	239310.69'	222125.05'
602	239639.98'	222125.47'
603	240400.38'	222128.60'
604	240944.49'	222131.67'
605	241715.87'	222139.98'
606	241940.63'	222141.41'
607	241940.44'	222191.41'
608	241940.44'	222192.21'
609	241941.09'	222241.42'
610	241908.09'	222241.21'
611	241715.01'	222239.98'
612	240943.67'	222231.67'
613	240399.90'	222228.60'
614	239639.72'	222225.47'
615	239311.08'	222225.05'



LOCATION SKETCH
- NOT TO SCALE

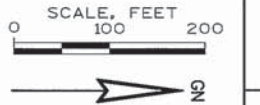
REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN VOLUME 2 TRANSPORTATION PROJECT PLATS, PAGE 22, AS DOCUMENT NUMBER 884071 FOR ADDITIONAL INFORMATION

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN

Douglas COUNTY,
WISCONSIN AT 3:00 P.M. ON
09-27-2016 AND FILED IN
TPP Vol 02 Pg 21 as Document
#884188

Robert Hoglund
SIGNATURE OF REGISTER OF DEEDS
Deputy

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8766-00-01-4.06
AMENDMENT NO:



AYRES ASSOCIATES Engineers/Planners
Surveyors & Scientists
3433 Oakwood Hill Parkway
Eau Claire, WI 54601

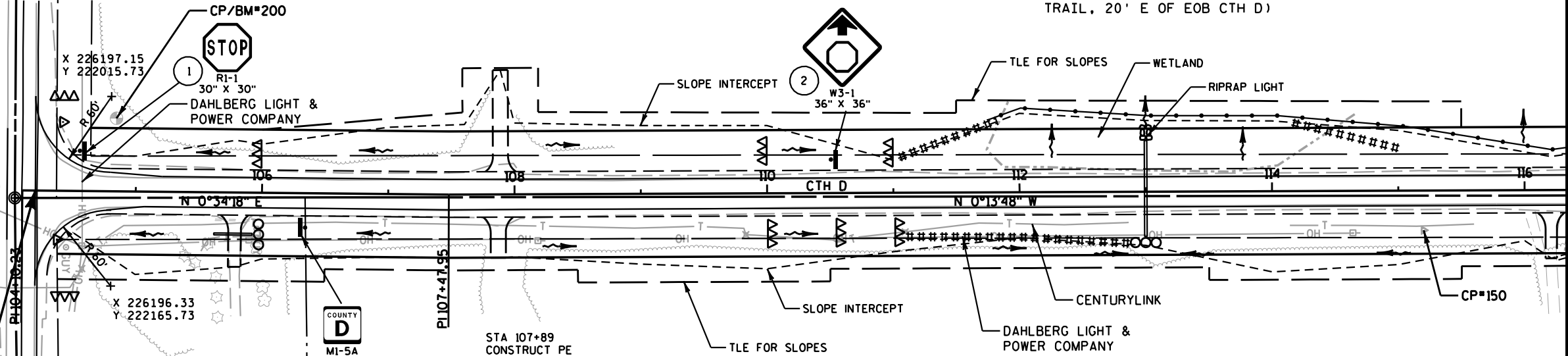
I, MATTHEW E. HOGUND, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF DOUGLAS COUNTY, I HAVE MAPPED THIS TRANSPORTATION PROJECT PLAT 8766-00-01-4.06 AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE *Matthew E. Hoglund* DATE 9/22/16
PRINTED NAME MATTHEW E. HOGUND
REGISTRATION NUMBER S-1910
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE DOUGLAS COUNTY HIGHWAY DEPARTMENT
SIGNATURE *Jason Jackman* DATE 9/26/2016
PRINTED NAME JASON JACKMAN

CP/BM*200 ELEV 1168.31
STA 104+84.25, 57.8' LT
Y 226201.11 X 222033.00
(DOUGLAS CO SURVEY MONUMENT, BRASS
STAMPED 411, SET IN CONCRETE BETWEEN
TWO WHITE WITNESS POSTS)

STA 107+89
CONSTRUCT PE
(GRAVEL)

CP*150 ELEV 1169.84
STA 115+20.02, 31.3' RT
Y 227236.41 X 222121.57
(120D SPIKE, 90' S OF E LOGGING
TRAIL, 20' E OF EOB CTH D)



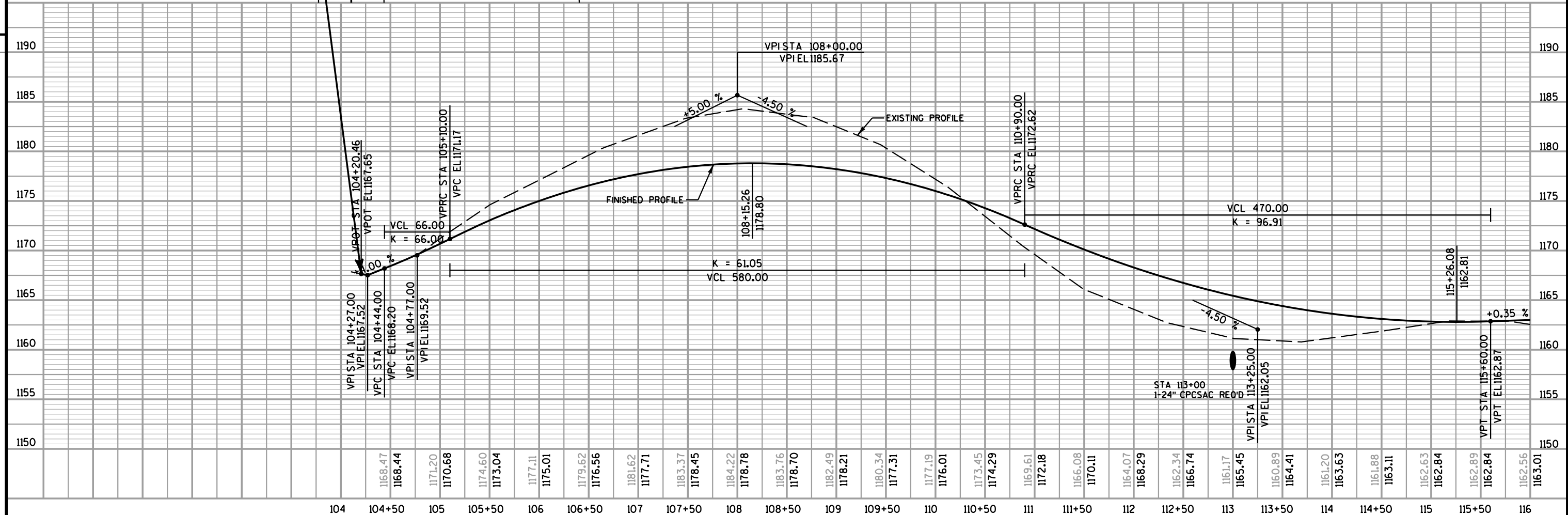
P.I. DATA
P.I. 104+10.23
Y 226126.52
X 222090.03

BEGIN PROJECT
STA 104+20.46
MATCH EXISTING
SAWCUT REQ'D
Y 226136.74
X 222090.13

STA 105+79
CONSTRUCT PE (GRAVEL)
1-18\"/>

P.I. DATA
P.I. 107+47.95
Y 226464.22
X 222093.40
 $\Delta = 0^\circ 48' 06''$

- OOO CULVERT PIPE CHECKS
- AAA TEMPORARY DITCH CHECKS
- #### EROSION MAT CLASS I TYPE B (UNLESS NOTED OTHERWISE)
- SILT FENCE



PROJECT NO: 8766-00-71

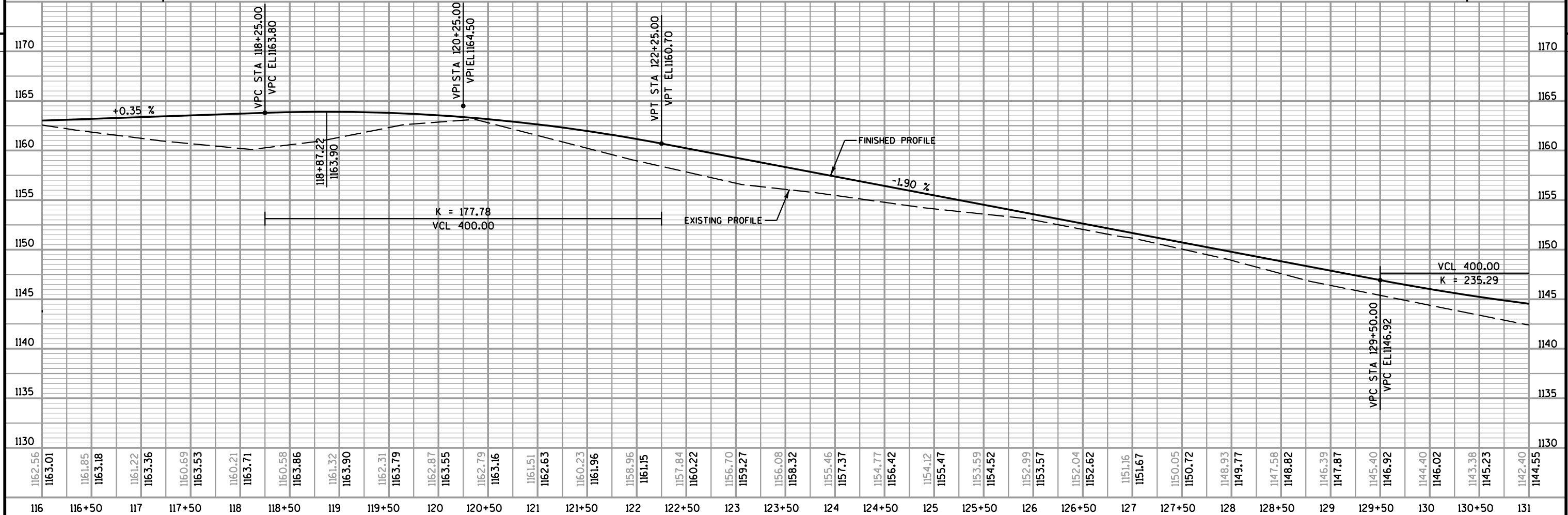
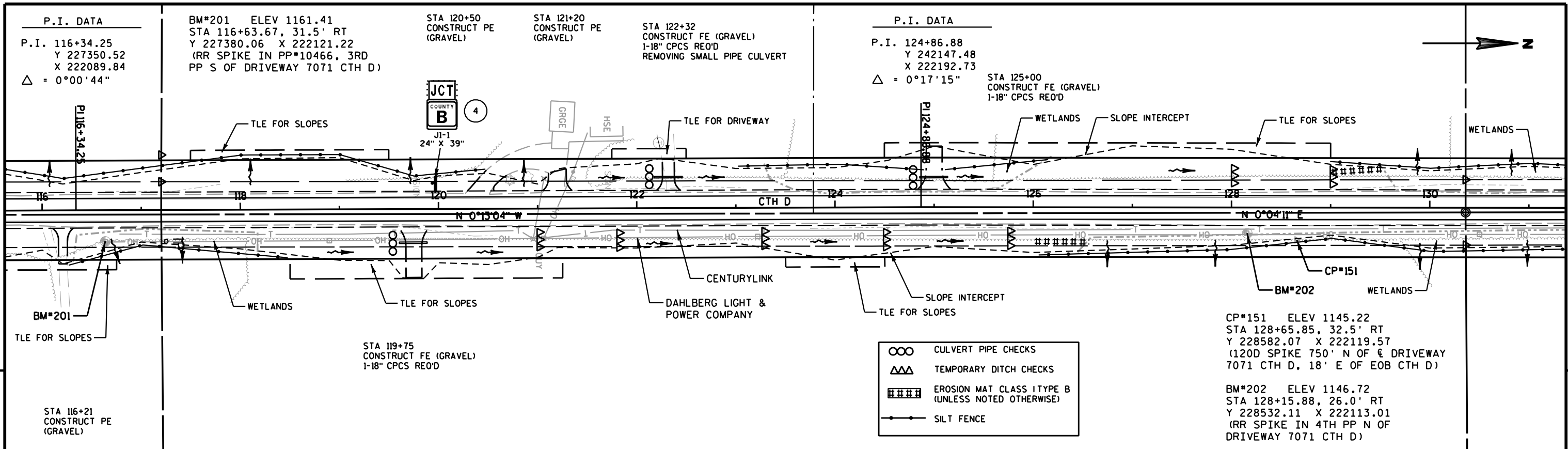
HWY: CTH D

COUNTY: DOUGLAS

PLAN & PROFILE

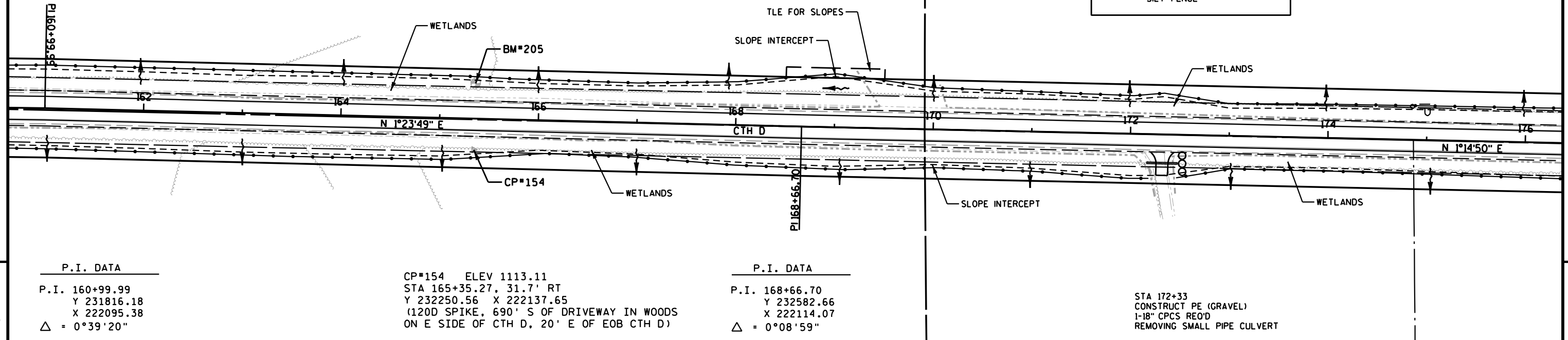
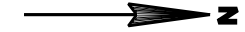
SHEET

E



BM*205 ELEV 1114.08
STA 165+35.63, 35.7' LT
Y 232252.56 X 222070.33
(RR SPIKE IN POPLAR TREE, 685' S OF
DRIVEWAY IN WOODS ON E SIDE OF CTH D)

- ○ ○ CULVERT PIPE CHECKS
- △ △ △ TEMPORARY DITCH CHECKS
- ▤ ▤ ▤ EROSION MAT CLASS I TYPE B
(UNLESS NOTED OTHERWISE)
- ● — SILT FENCE



P.I. DATA

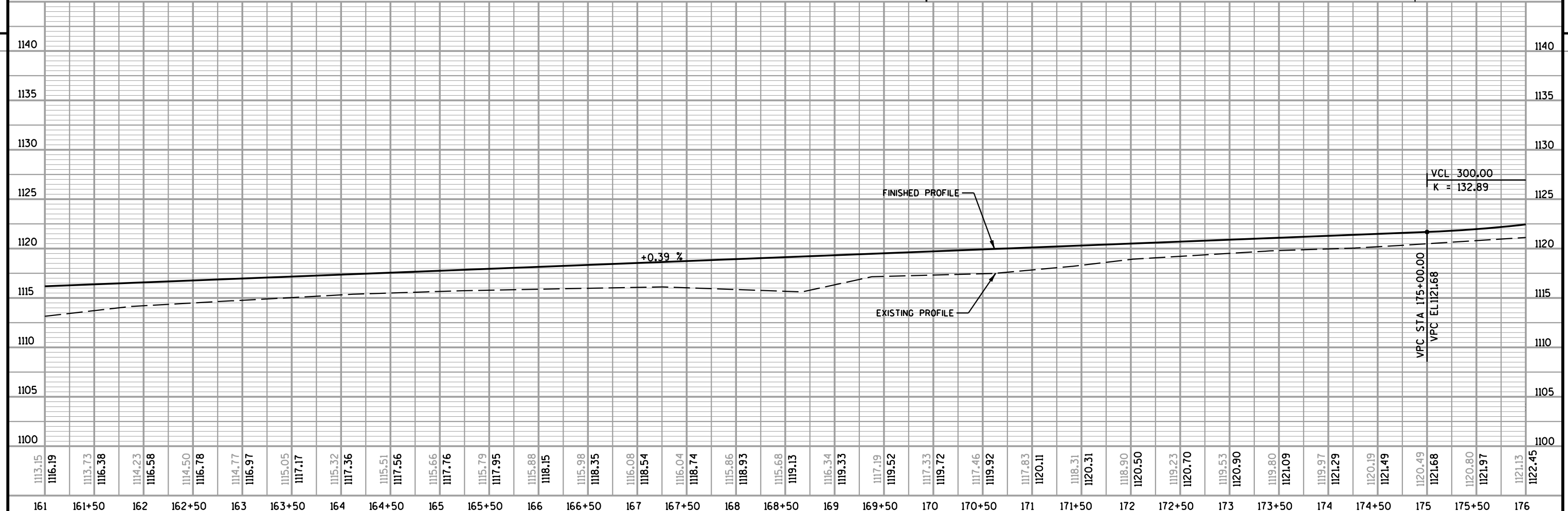
P.I. 160+99.99
Y 231816.18
X 222095.38
Δ = 0°39'20"

CP*154 ELEV 1113.11
STA 165+35.27, 31.7' RT
Y 232250.56 X 222137.65
(120D SPIKE, 690' S OF DRIVEWAY IN WOODS
ON E SIDE OF CTH D, 20' E OF EOB CTH D)

P.I. DATA

P.I. 168+66.70
Y 232582.66
X 222114.07
Δ = 0°08'59"

STA 172+33
CONSTRUCT PE (GRAVEL)
1-18" CPCS REQ'D
REMOVING SMALL PIPE CULVERT



PROJECT NO: 8766-00-71

HWY: CTH D

COUNTY: DOUGLAS

PLAN & PROFILE

SHEET

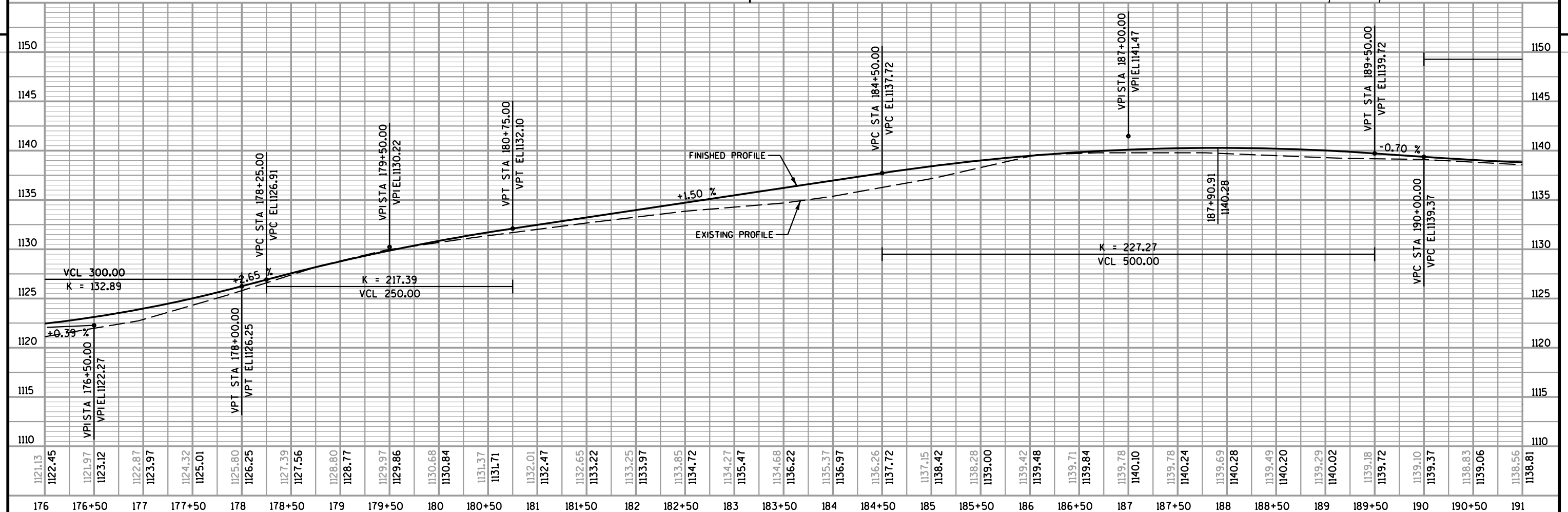
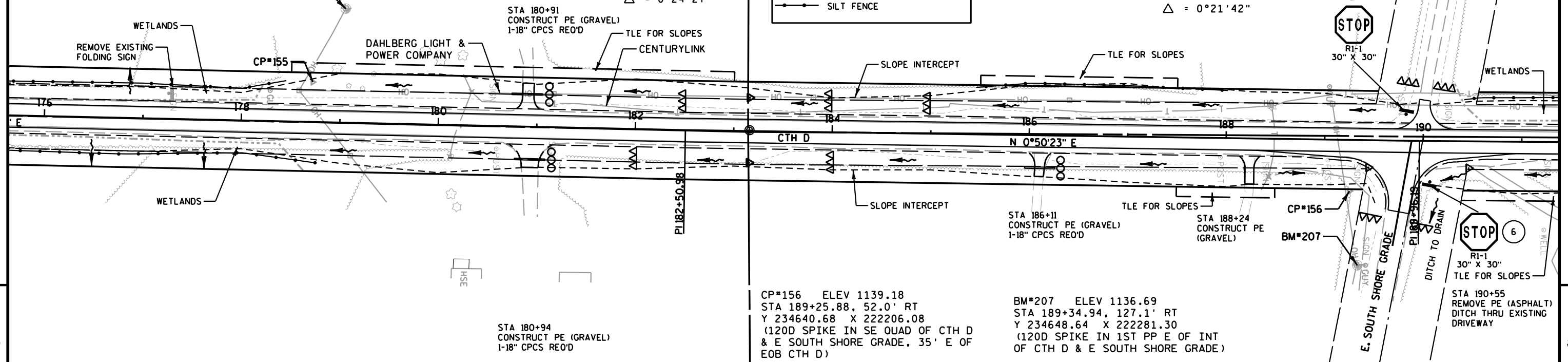
E

BM*206 ELEV 1131.53
STA 179+03.47, 115.8' LT
Y 233621.71 X 222020.90
(120D SPIKE IN TELEPHONE POLE
48' SW OF HOUSE 6619 CTH D)

CP*155 ELEV 1127.11
STA 178+71.66, 40.5' LT
Y 233588.27 X 222095.45
(120D SPIKE, 15' N OF 1ST PP S OF
DRIVEWAY 6619 CTH D, 28' W OF EOB
CTH D)

P.I. DATA
P.I. 182+50.98
Y 233966.62
X 222144.20
 $\Delta = 0^\circ 24' 27''$

P.I. DATA
P.I. 189+96.19
Y 234711.75
X 222155.12
 $\Delta = 0^\circ 21' 42''$



PROJECT NO: 8766-00-71

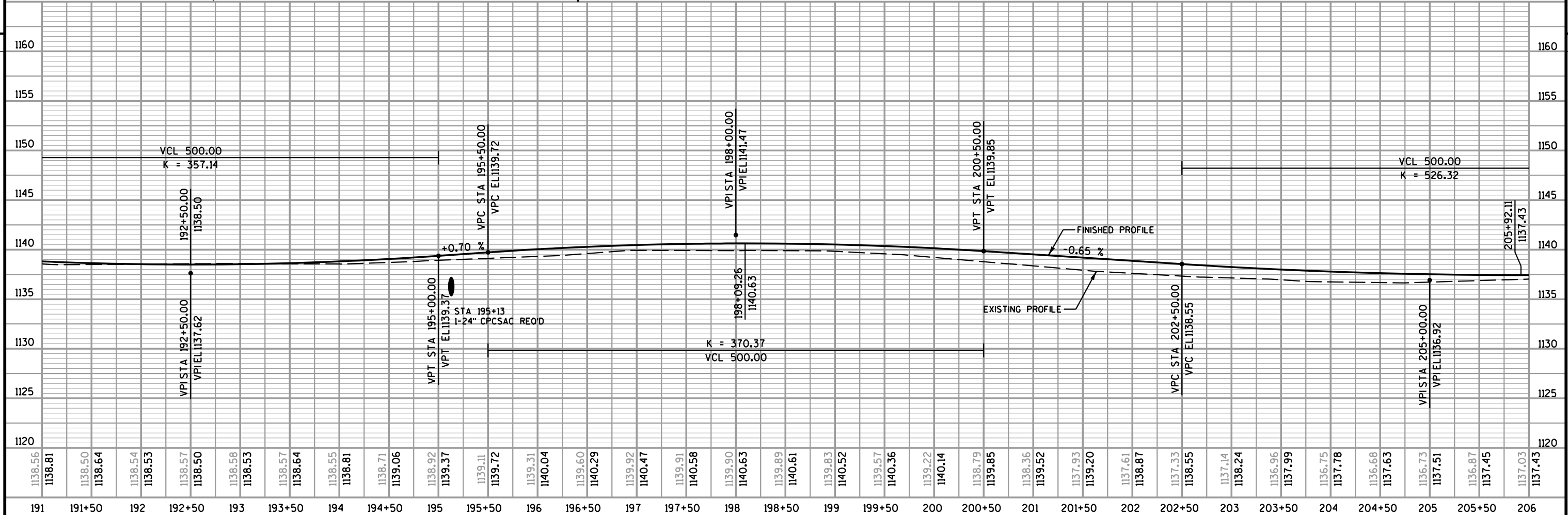
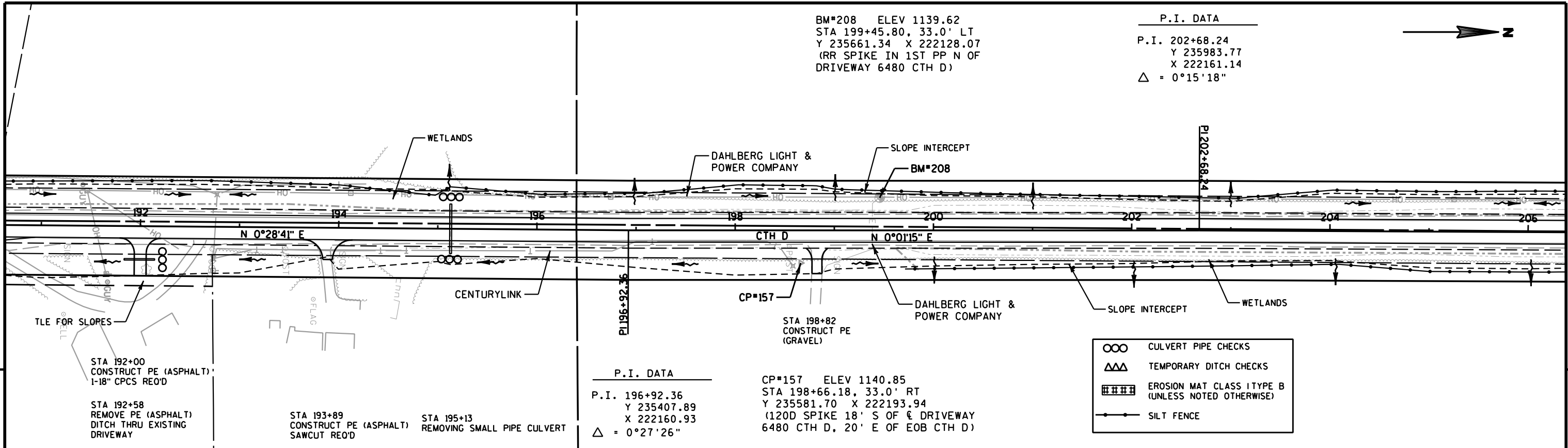
HWY: CTH D

COUNTY: DOUGLAS

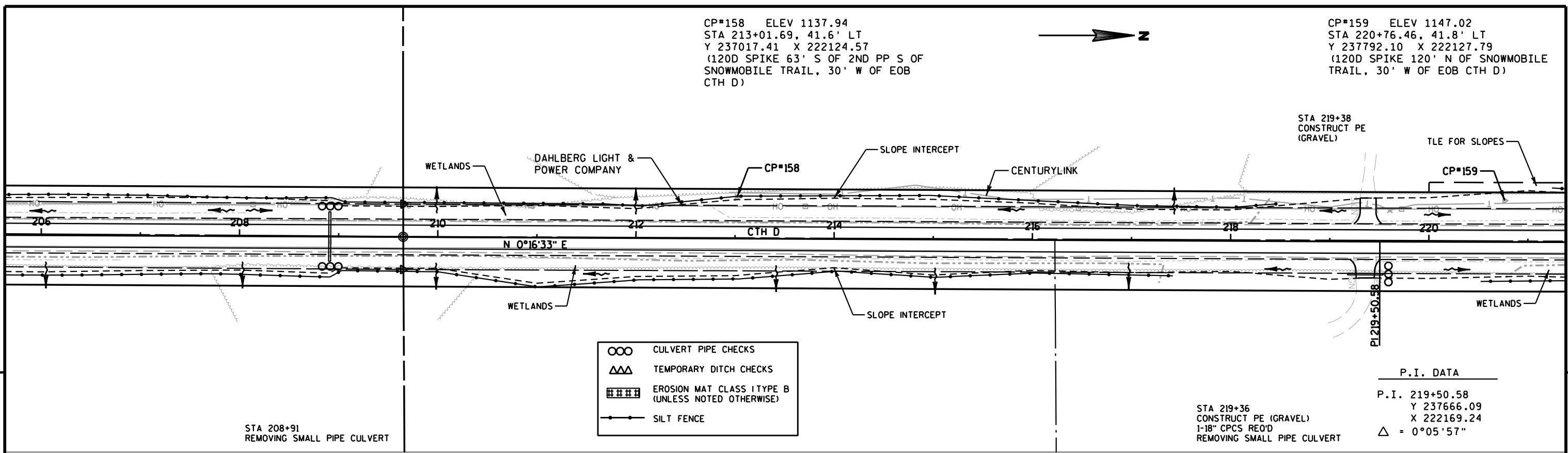
PLAN & PROFILE

SHEET

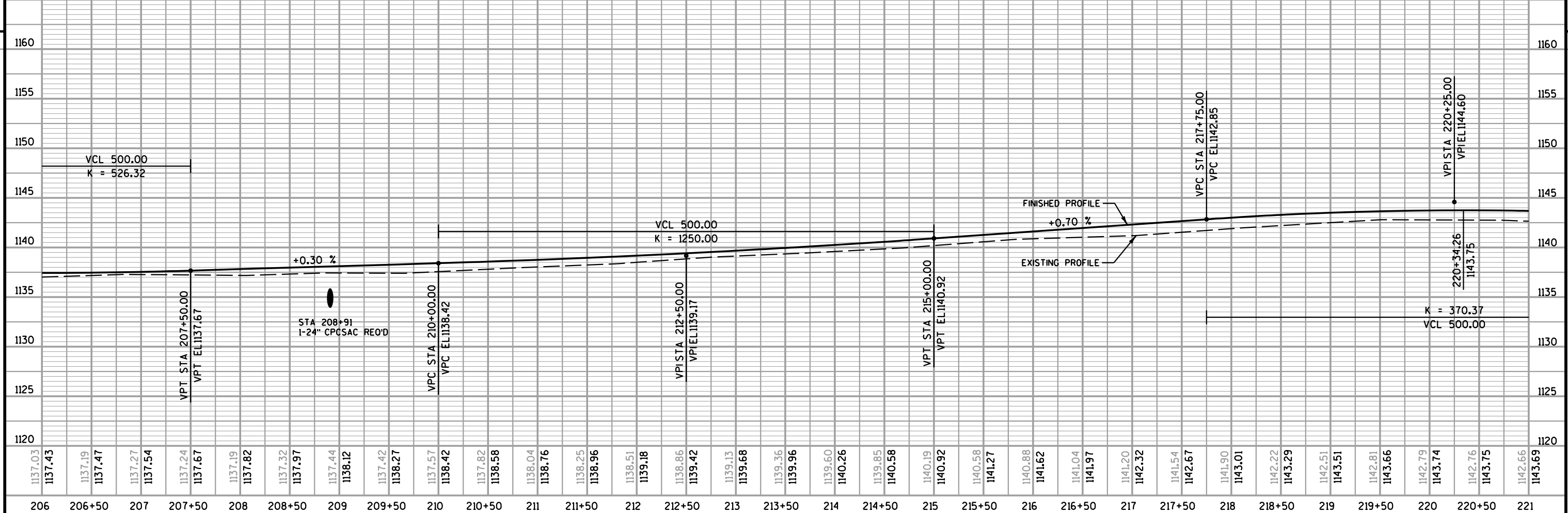
E



5

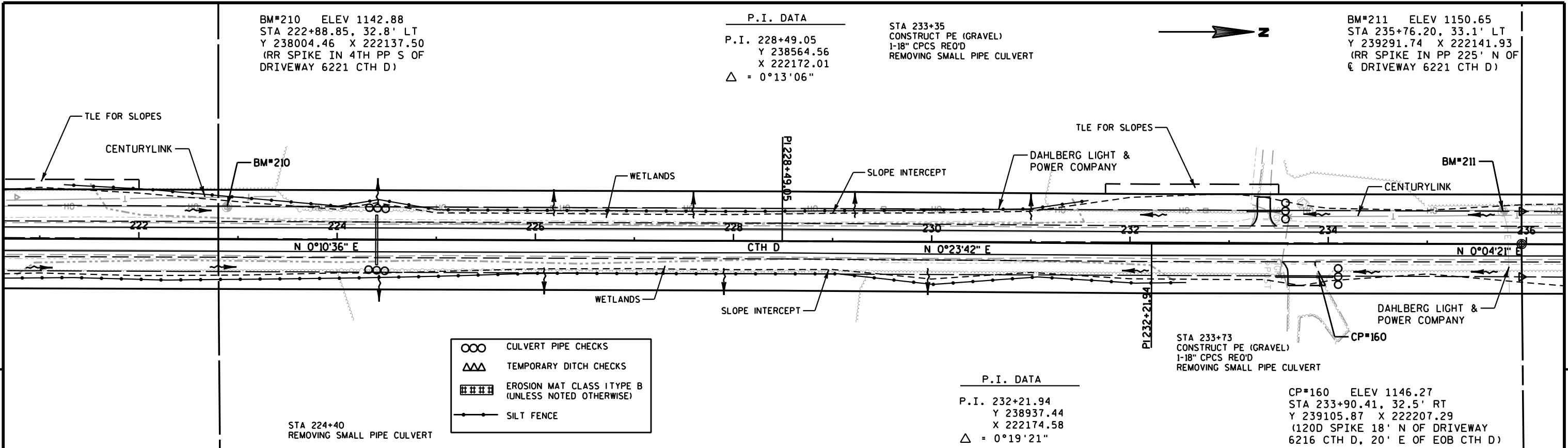


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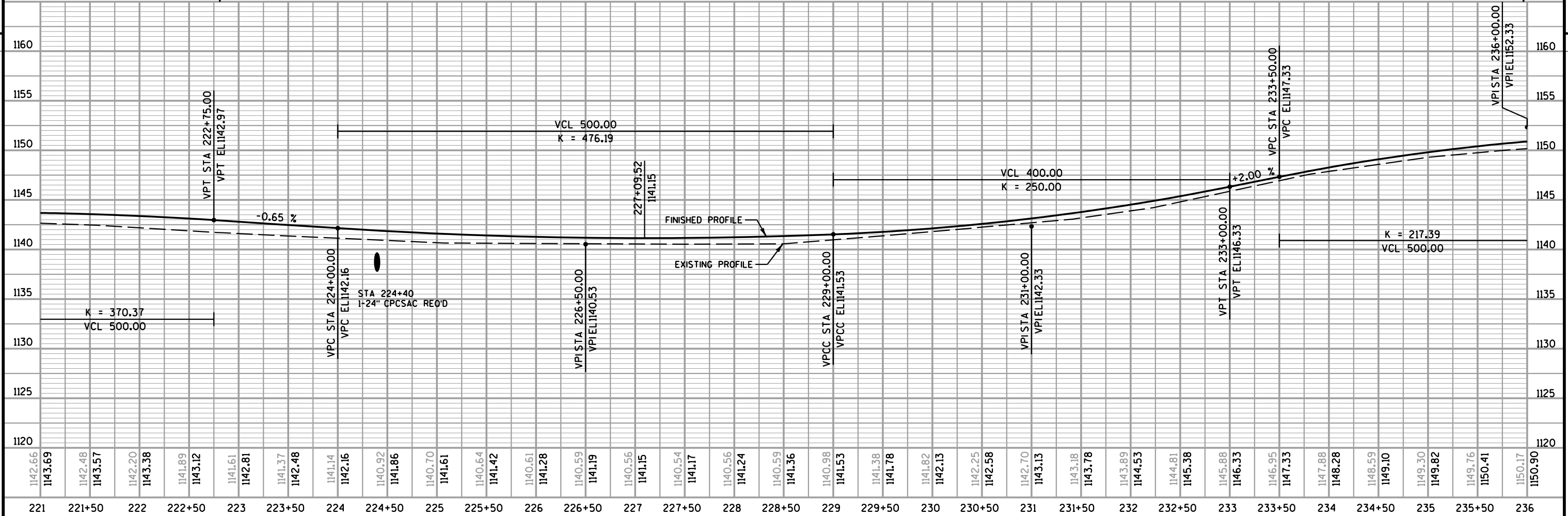


PROJECT NO: 8766-00-71	HWY: CTH D	COUNTY: DOUGLAS	PLAN & PROFILE	SHEET	E
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5



5



CP*161 ELEV 1150.62
STA 237+73.03, 32.2' LT
Y 239488.57 X 222143.08
(120D SPIKE 17' N OF DRIVEWAY
6189 CTH D, 18' W OF EOB CTH D)

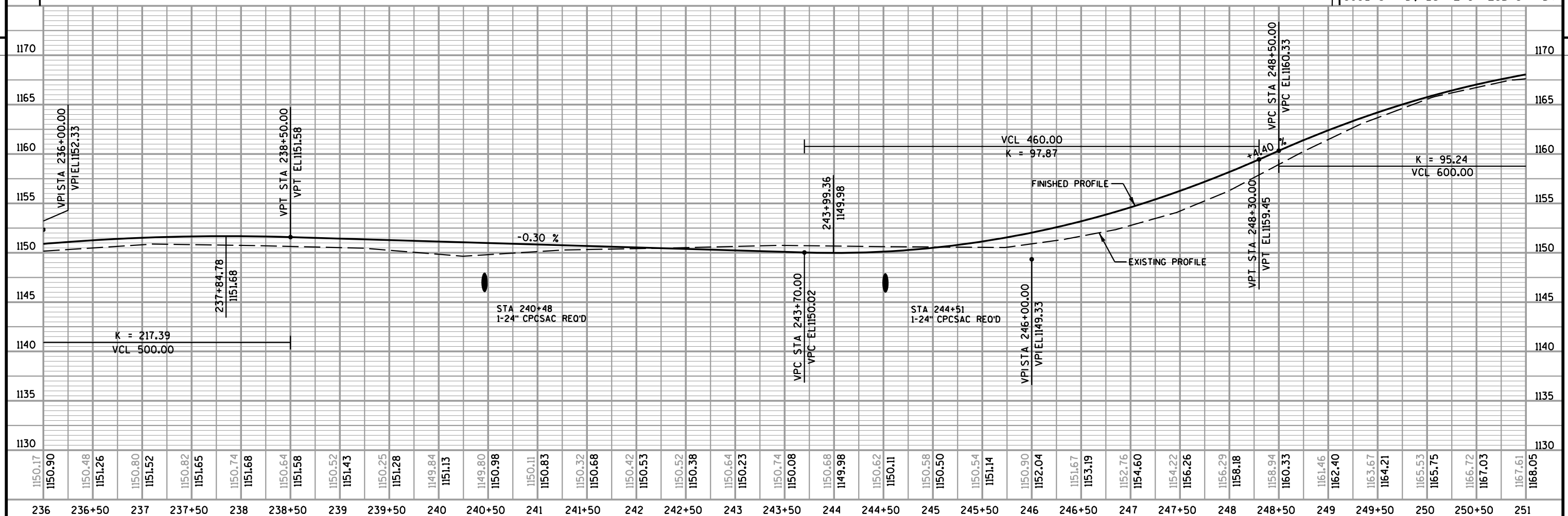
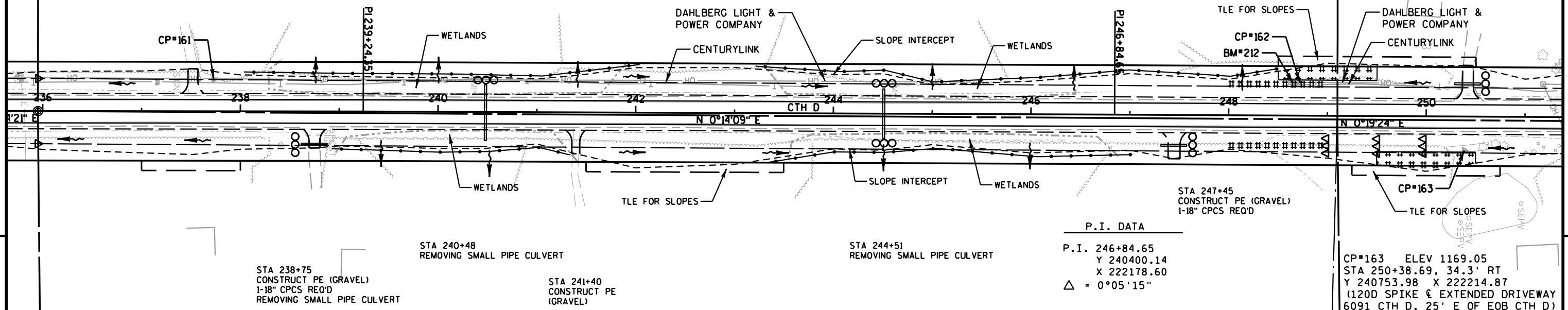
P.I. DATA
P.I. 239+24.35
Y 239639.85
X 222175.47
 $\Delta = 0^{\circ}09'48''$

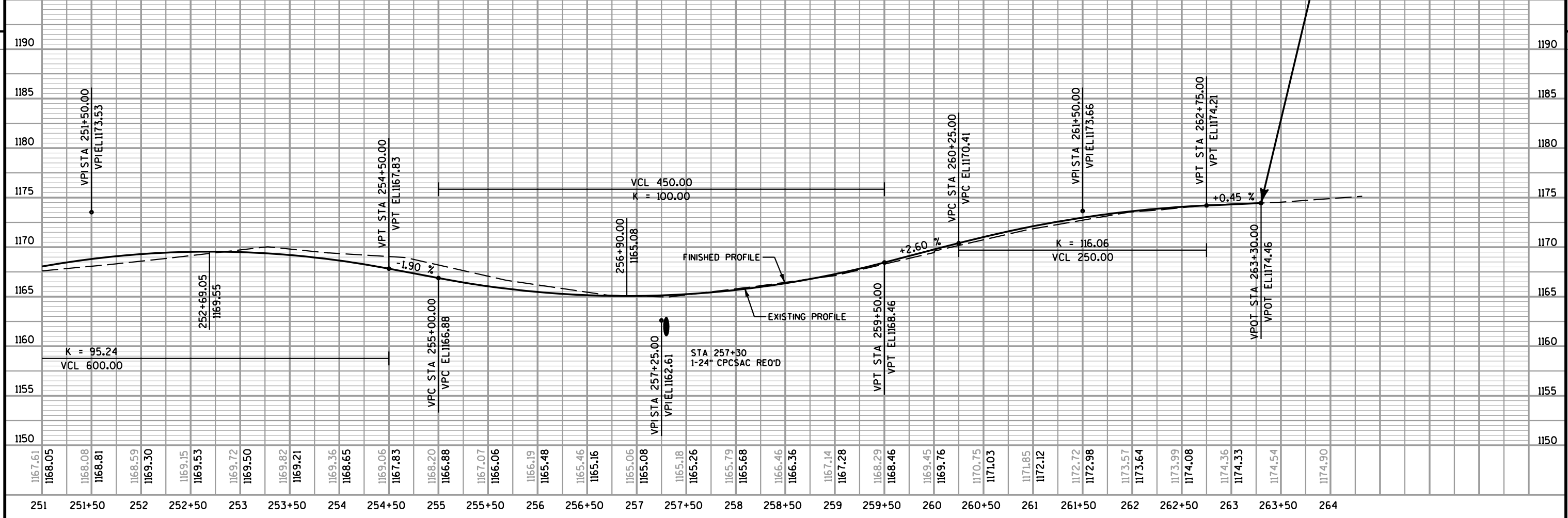
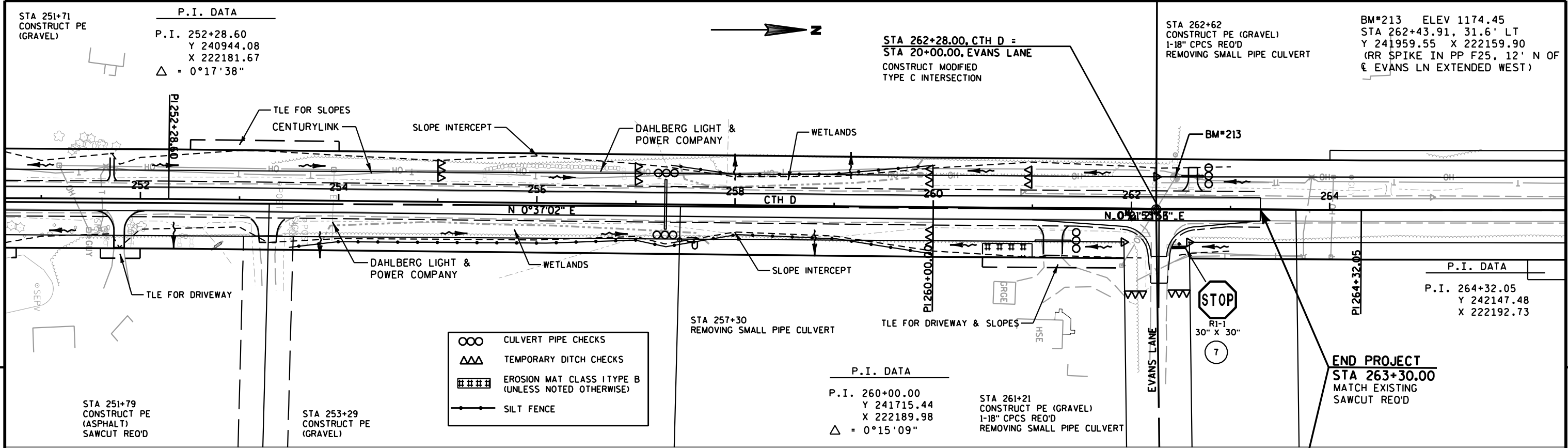
- OOO CULVERT PIPE CHECKS
- AAA TEMPORARY DITCH CHECKS
- #### EROSION MAT CLASS I TYPE B (UNLESS NOTED OTHERWISE)
- SILT FENCE

CP*162 ELEV 1163.20
STA 248+71.86, 33.5' LT
Y 240587.54 X 222146.21
(120D SPIKE 6' N OF 1ST PP S OF
DRIVEWAY 6091 CTH D, 20' W OF
EOB CTH D)

BM*212 ELEV 1163.66
STA 248+65.03, 33.0' LT
Y 240580.71 X 222146.67
(RR SPIKE IN 1ST PP S OF
DRIVEWAY 6091 CTH D)

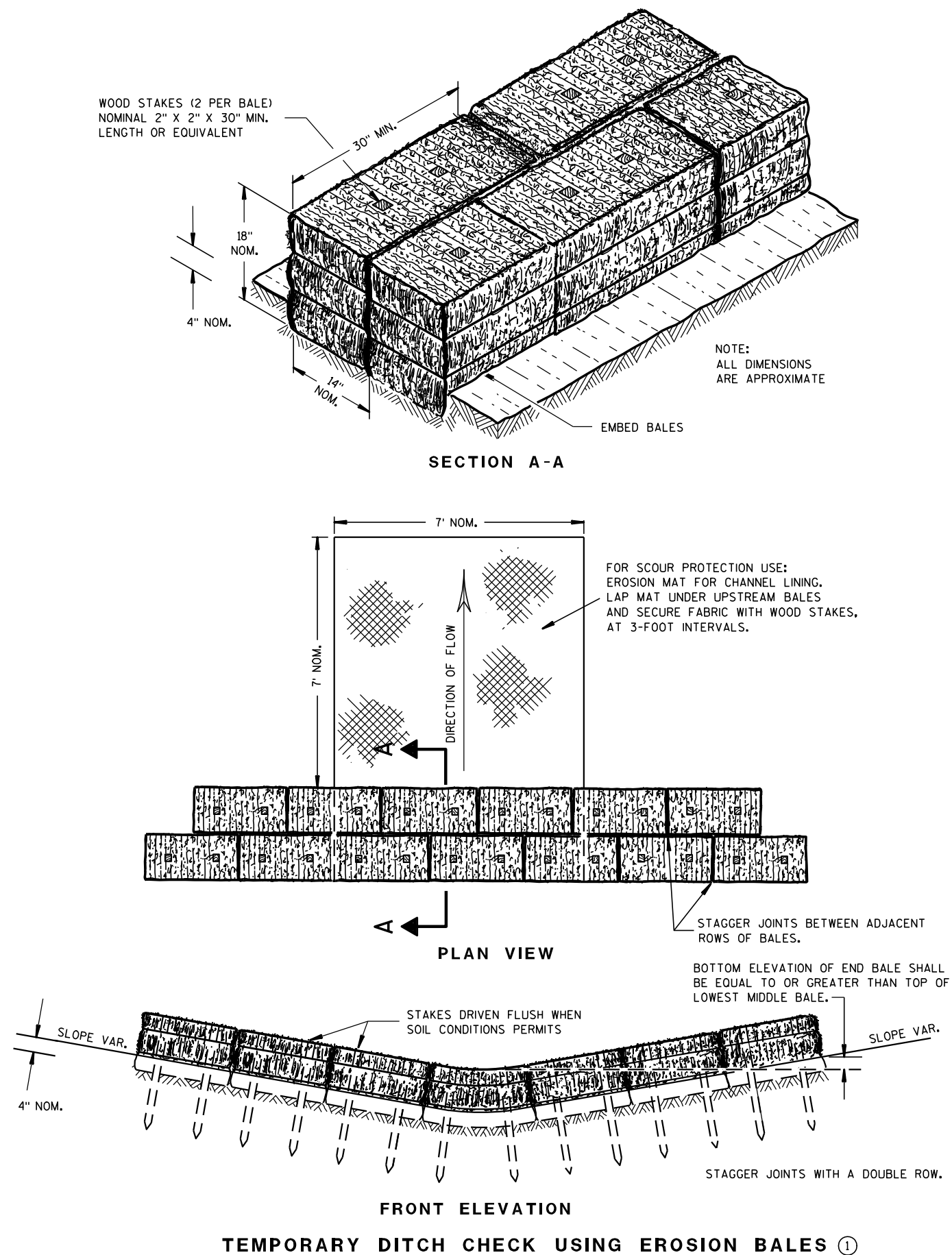
STA 250+42
CONSTRUCT PE (GRAVEL)
1-24" CPCS REQ'D
REMOVING SMALL PIPE CULVERT





Standard Detail Drawing List

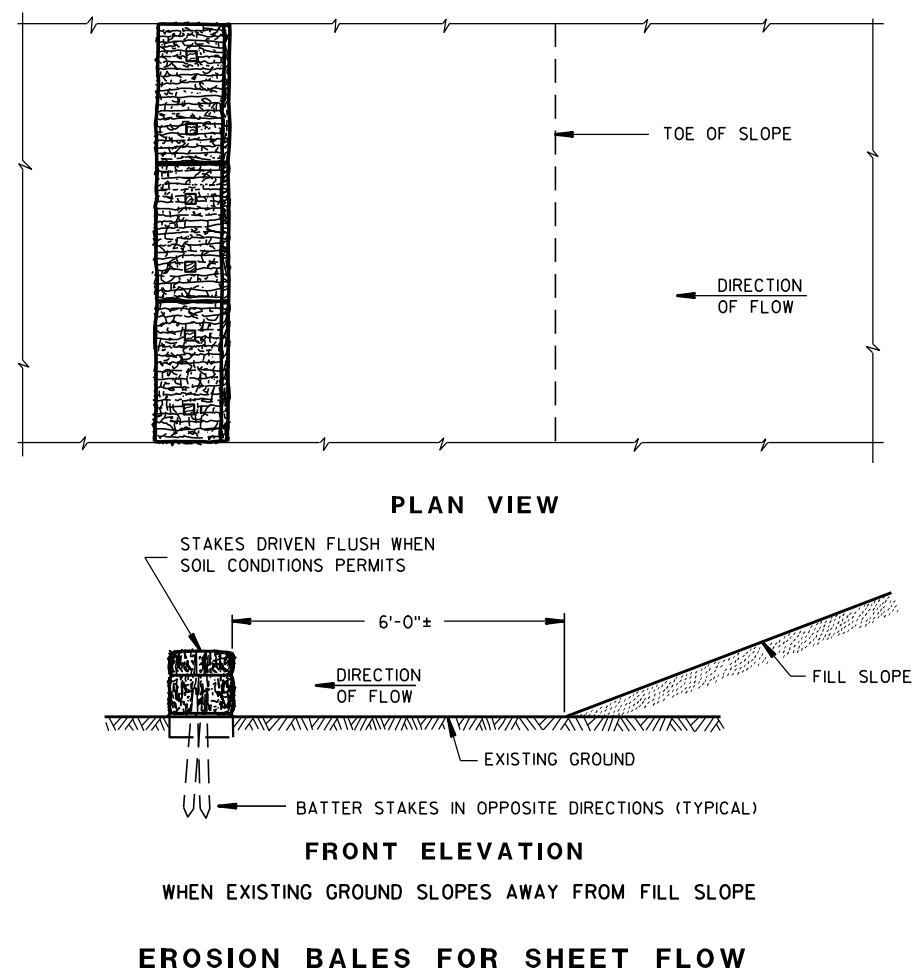
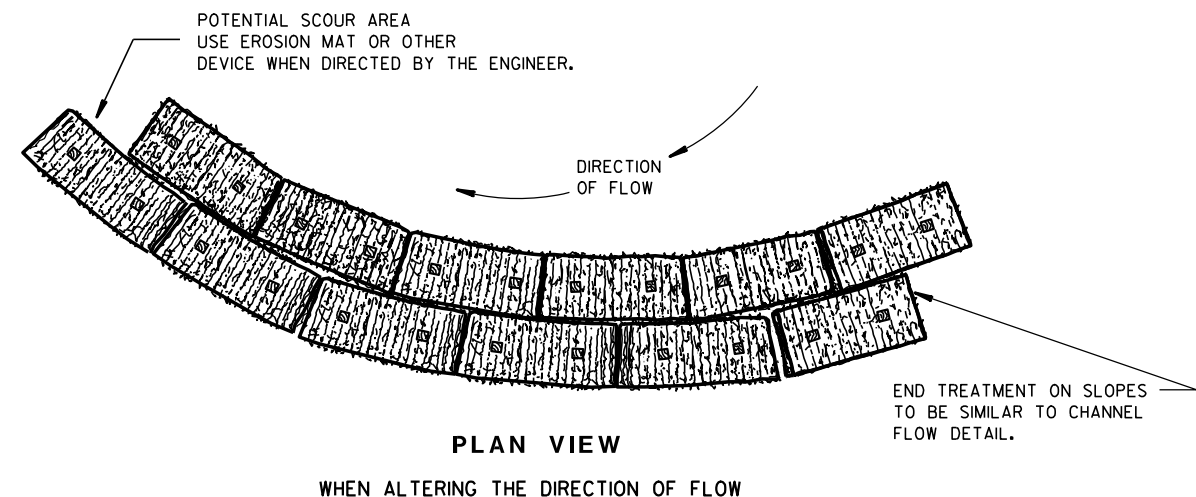
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
14B42-04A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-04B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-04C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-02A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-04A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04E	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04K	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04L	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-03	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C06-08	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-17A	LONGITUDINAL MARKING (MAINLINE)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C19-04A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C35-01A	PAVEMENT MARKING (INTERSECTIONS)
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY



GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

- ① TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

TYPICAL INSTALLATIONS OF
EROSION BALES / TEMPORARY
DITCH CHECKS

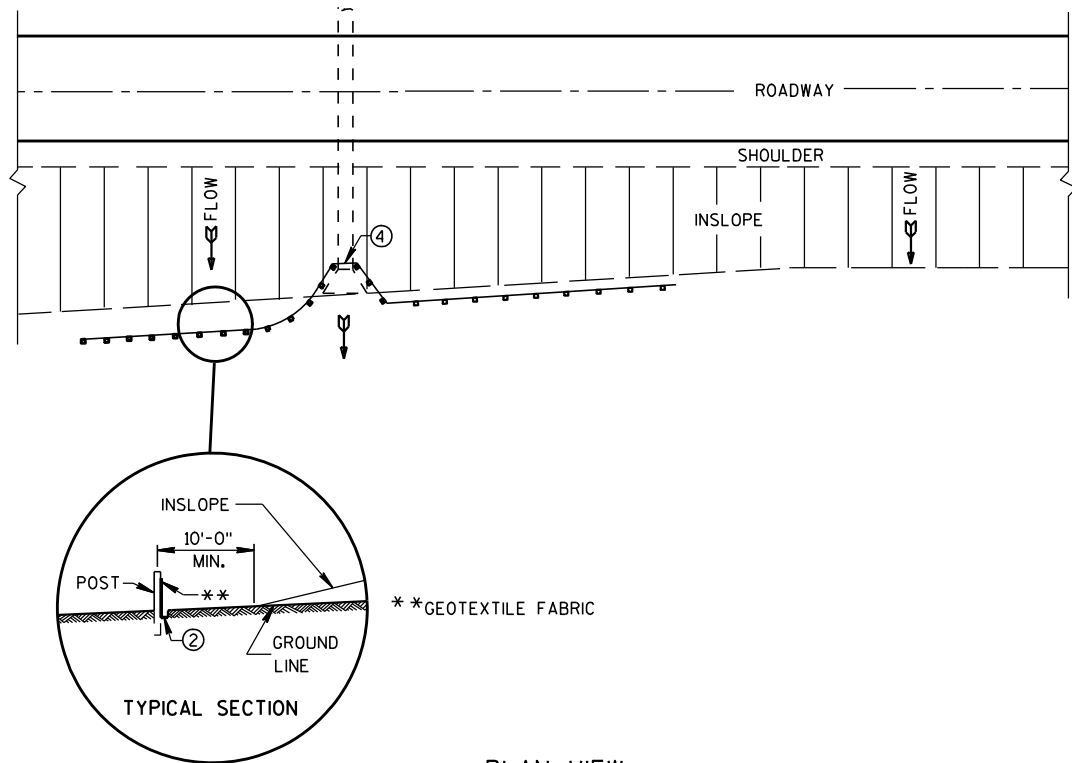
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

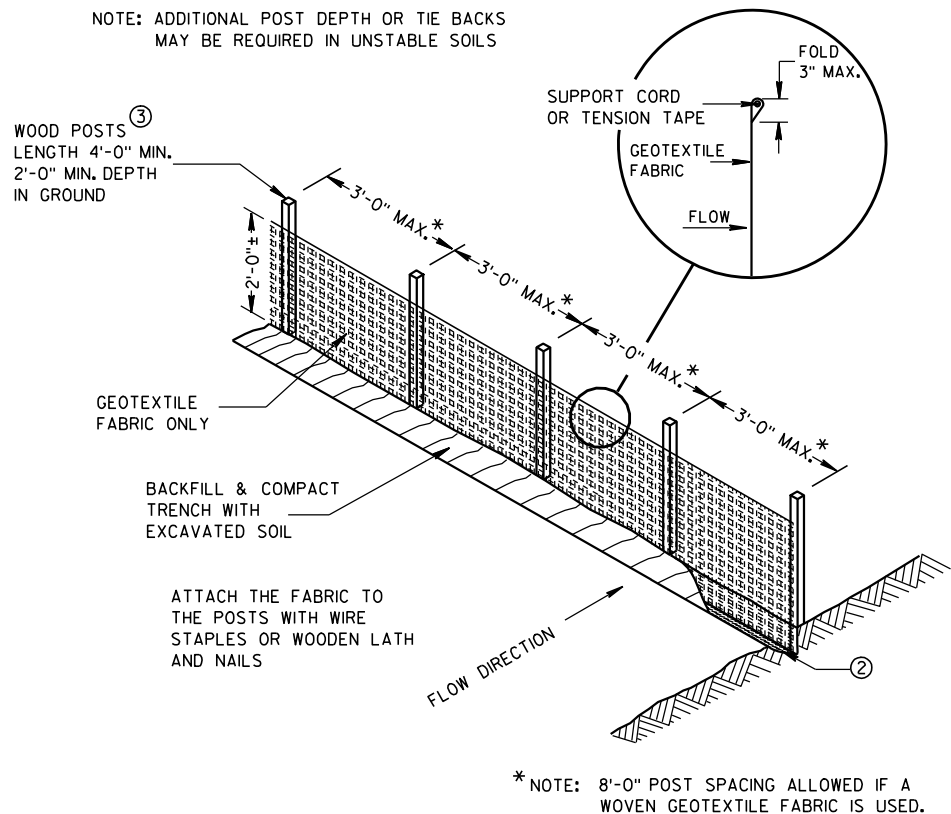
6/04/02
DATE

FHWA

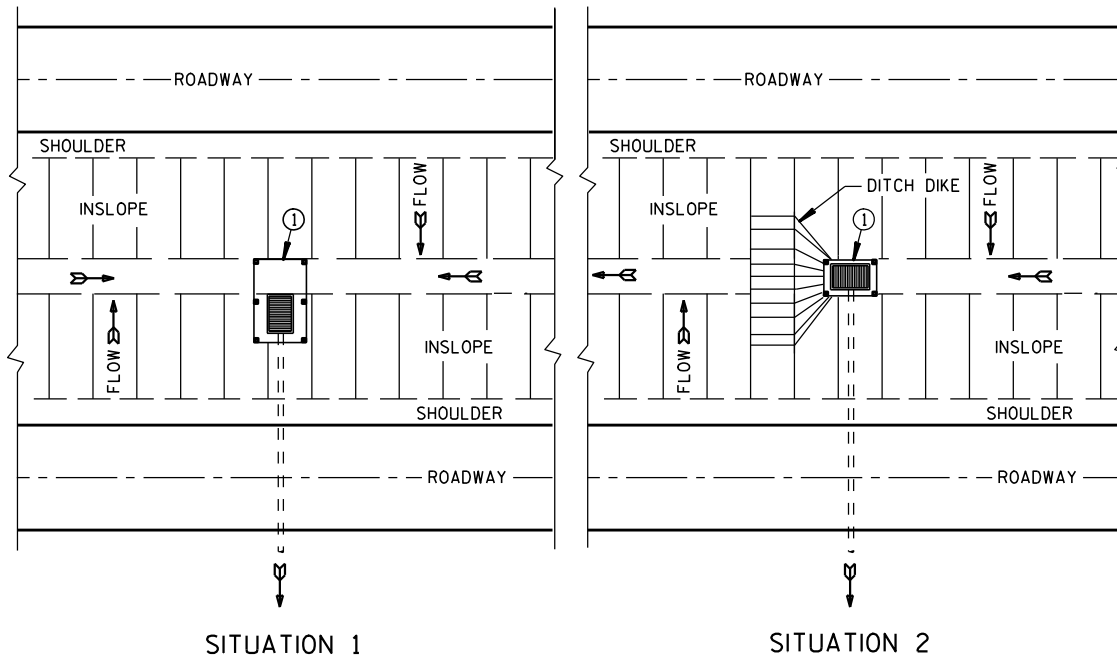
/S/ Beth Canestra
CHIEF ROADWAY DEVELOPMENT ENGINEER



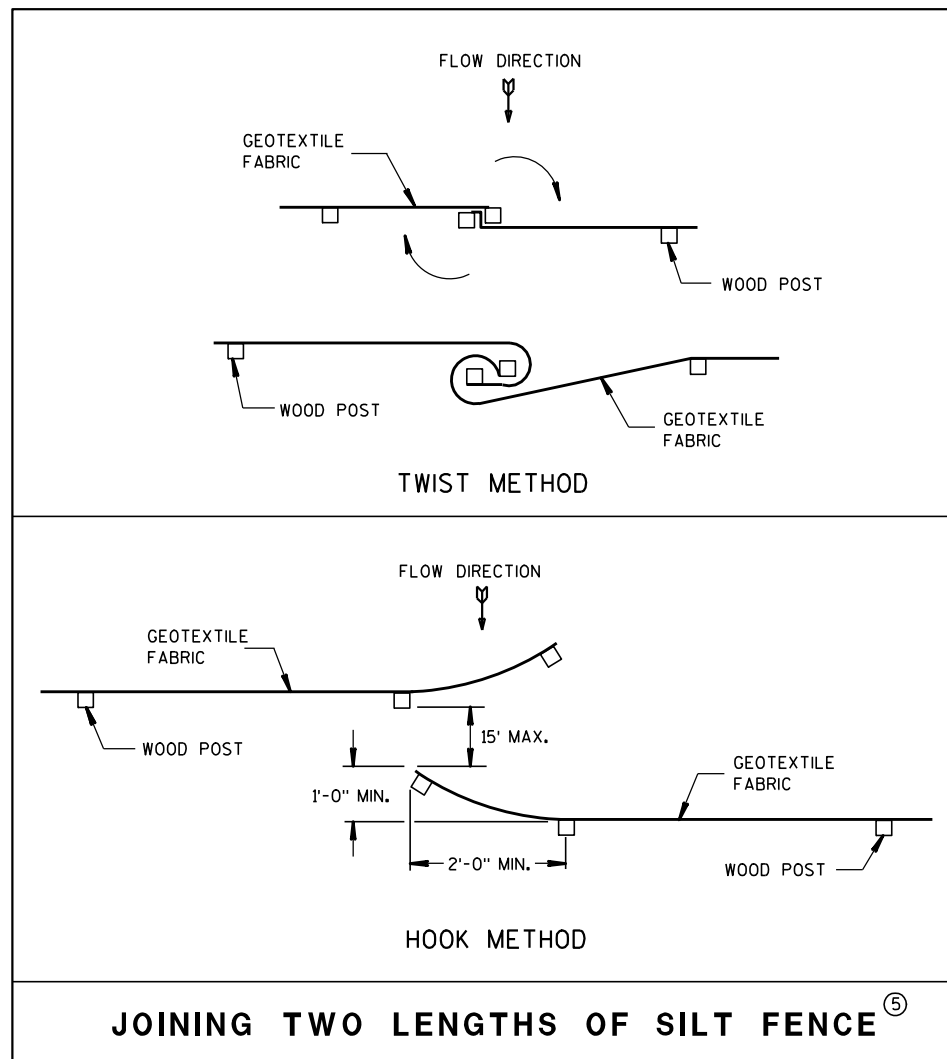
PLAN VIEW
TYPICAL APPLICATION OF SILT FENCE



SILT FENCE



PLAN VIEW
SILT FENCE AT MEDIAN SURFACE DRAINS

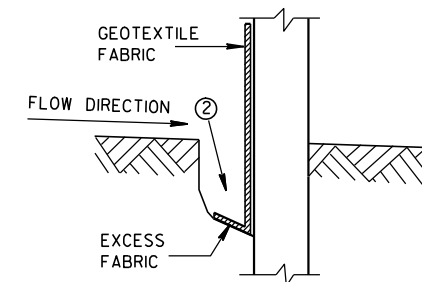


JOINING TWO LENGTHS OF SILT FENCE

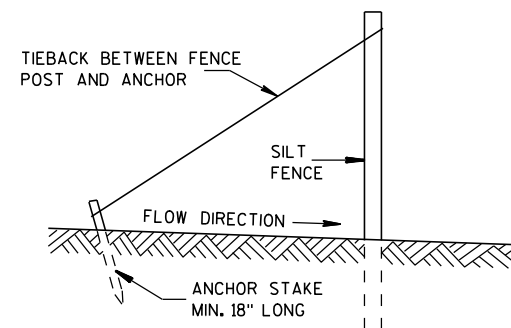
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- ③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/8" X 1 1/8" OF OAK OR HICKORY.
- ④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- ⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.

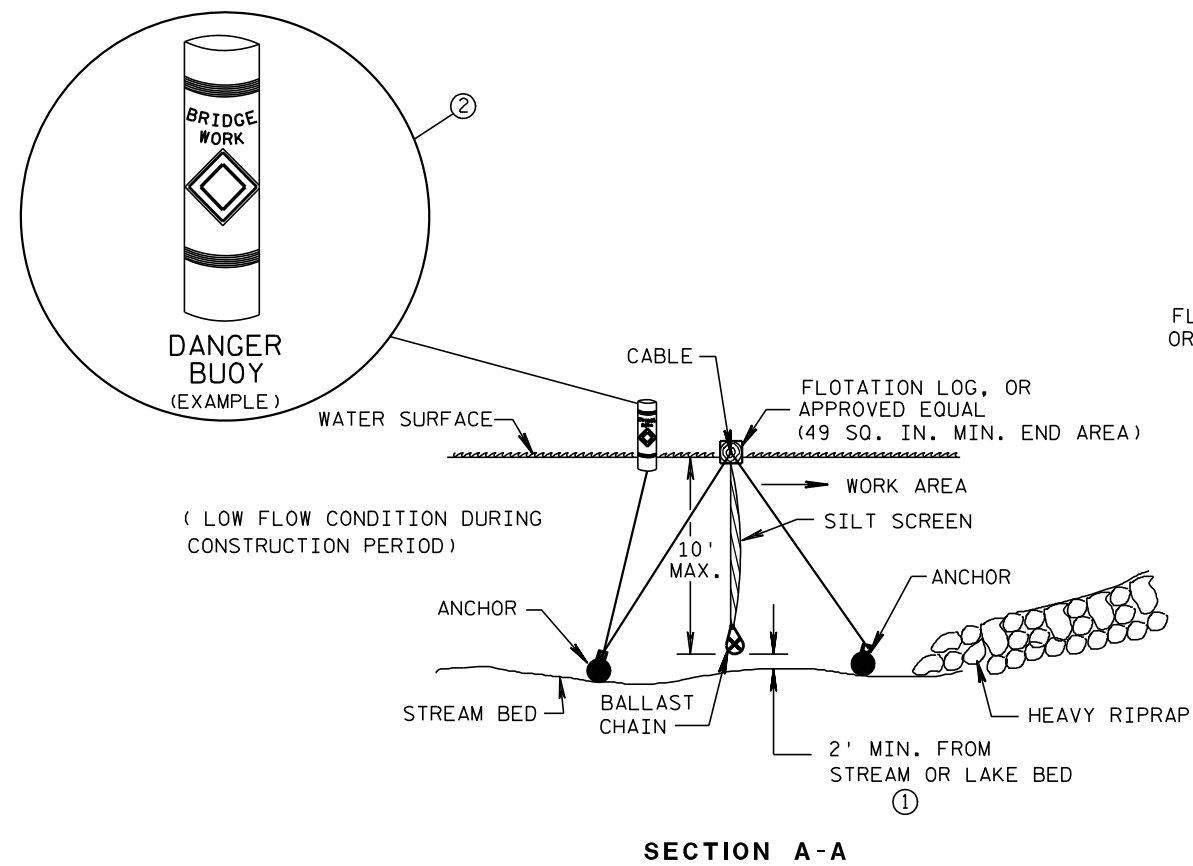


TRENCH DETAIL



SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 4-29-05 DATE	/S/ Beth Canestra CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA	

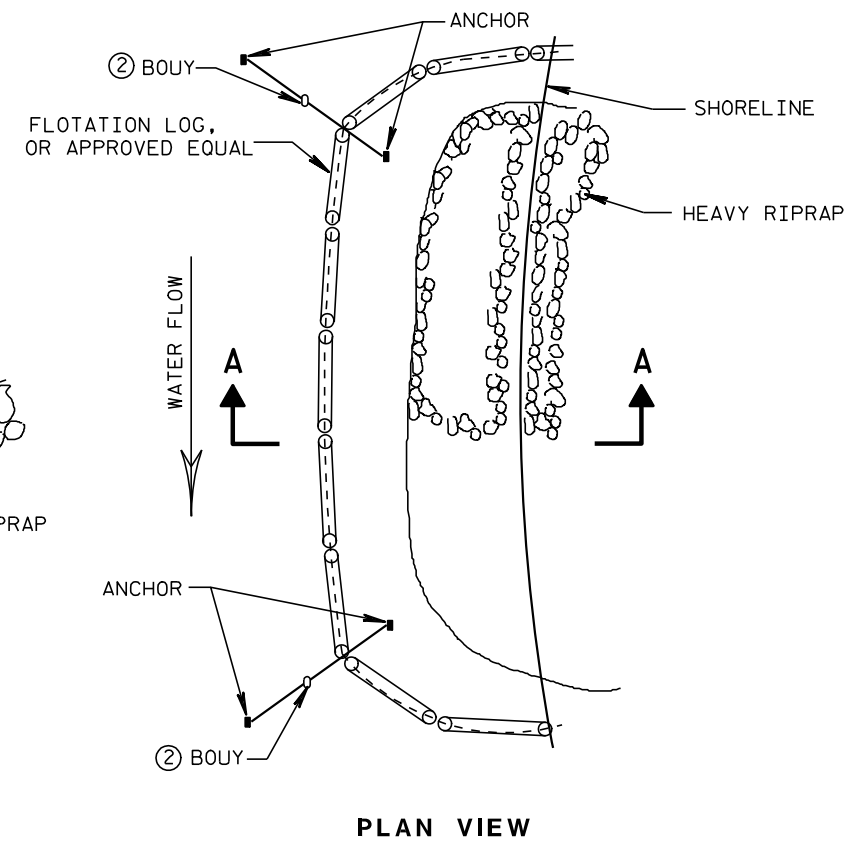


SILT SCREEN PLACEMENT DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

- ① 2' MINIMUM SHALL BE MAINTAINED DURING CONSTRUCTION PERIOD.
- ② USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.



PLAN VIEW

SILT SCREEN

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

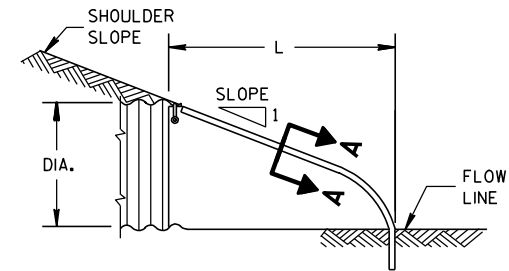
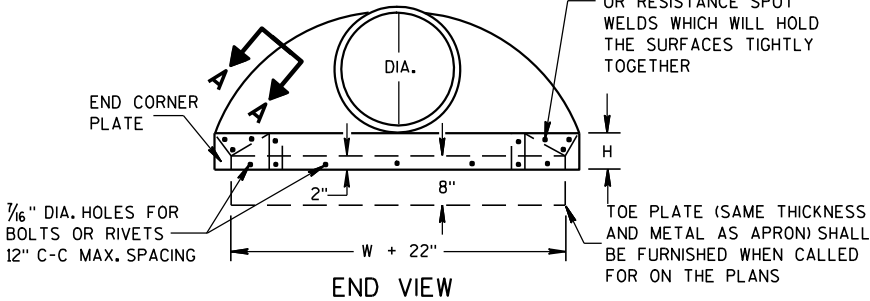
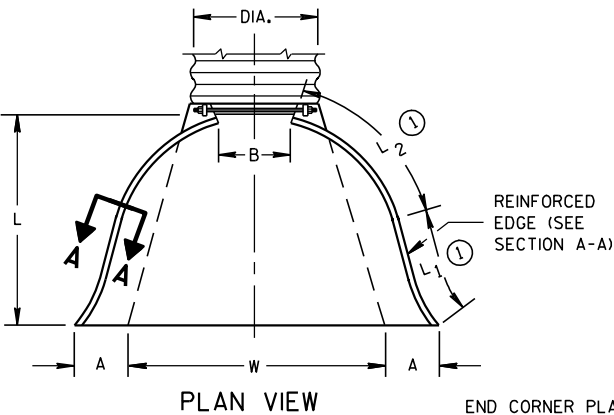
6/04/02
DATE

/S/ Beth Canestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

METAL APRON ENDWALLS											
PIPE DIA. (IN.)	MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE	BODY
	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")		
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109x	.105x	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109x	.105x	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109x	.105x	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109x	.105x	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109x	.105x	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109x	.105x	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109x	.105x	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

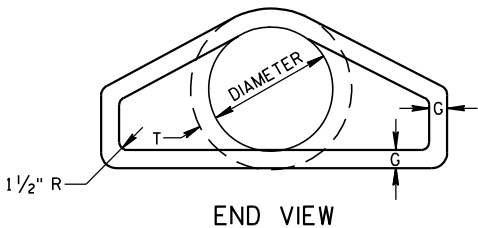
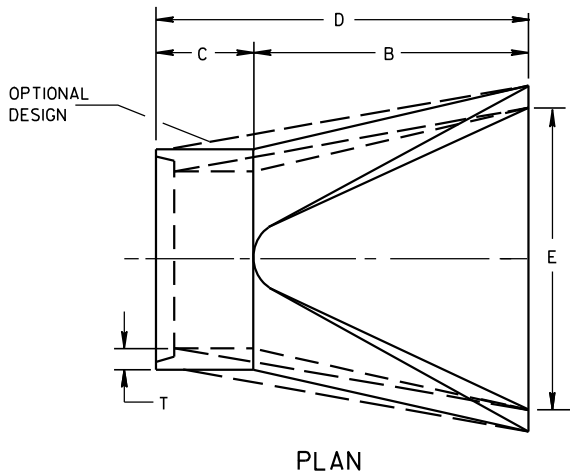
* EXCEPT CENTER PANEL
SEE GENERAL NOTES



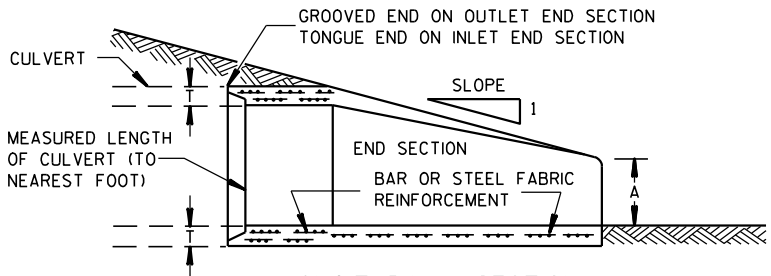
SIDE ELEVATION
METAL ENDWALLS

REINFORCED CONCRETE APRON ENDWALLS											
PIPE DIA. (IN.)	DIMENSIONS (Inches)							APPROX. SLOPE			
	T	A	B	C	D	E	G				
12	2	4	24	48 1/8	72 1/8	24	2	3 to 1			
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1			
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1			
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1			
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1			
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1			
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1			
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1			
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1			
48	5	24	72	26	98	84	5	3 to 1			
54	5 1/2	27	65	33 1/4-35	98 1/4-100	90	5 1/2	2 1/2 to 1			
60	6	30-35	60	39	99	96	5	2 to 1			
66	6 1/2	24-30	72-78	21-27	99	102	5 1/2	2 to 1			
72	7	24-36	78	21	99	108	6	2 to 1			
78	7 1/2	24-36	78	21	99	114	6 1/2	2 to 1			
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1			
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1			

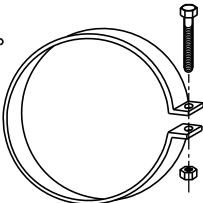
* MINIMUM
** MAXIMUM



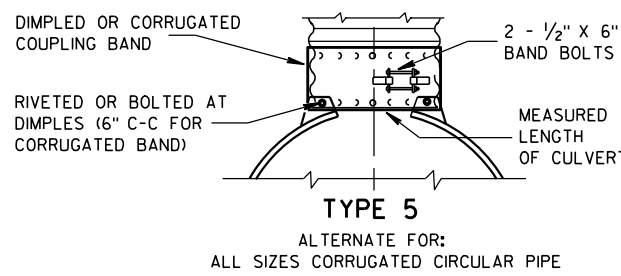
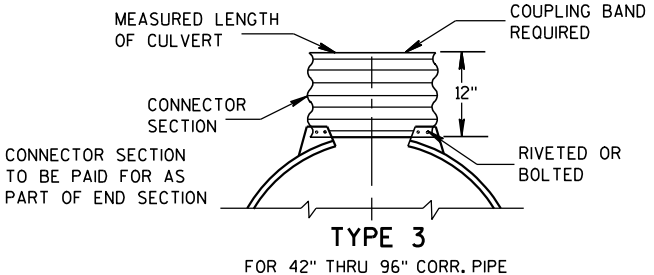
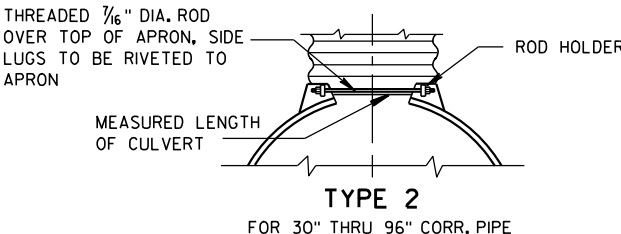
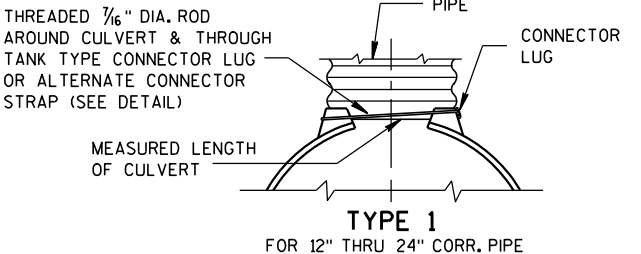
LONGITUDINAL SECTION
CONCRETE ENDWALLS



1" WIDE, 12 GA. (0.109" THICK) GALVANIZED STRAP WITH STANDARD 6" X 1/2" BAND BOLT AND NUT



ALTERNATE FOR TYPE 1 CONNECTION
END SECTION CONNECTOR STRAP



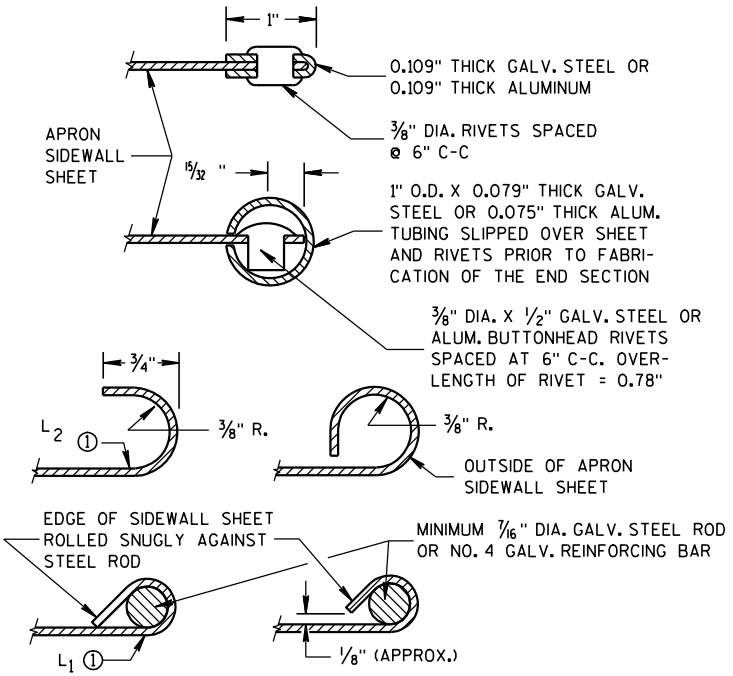
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

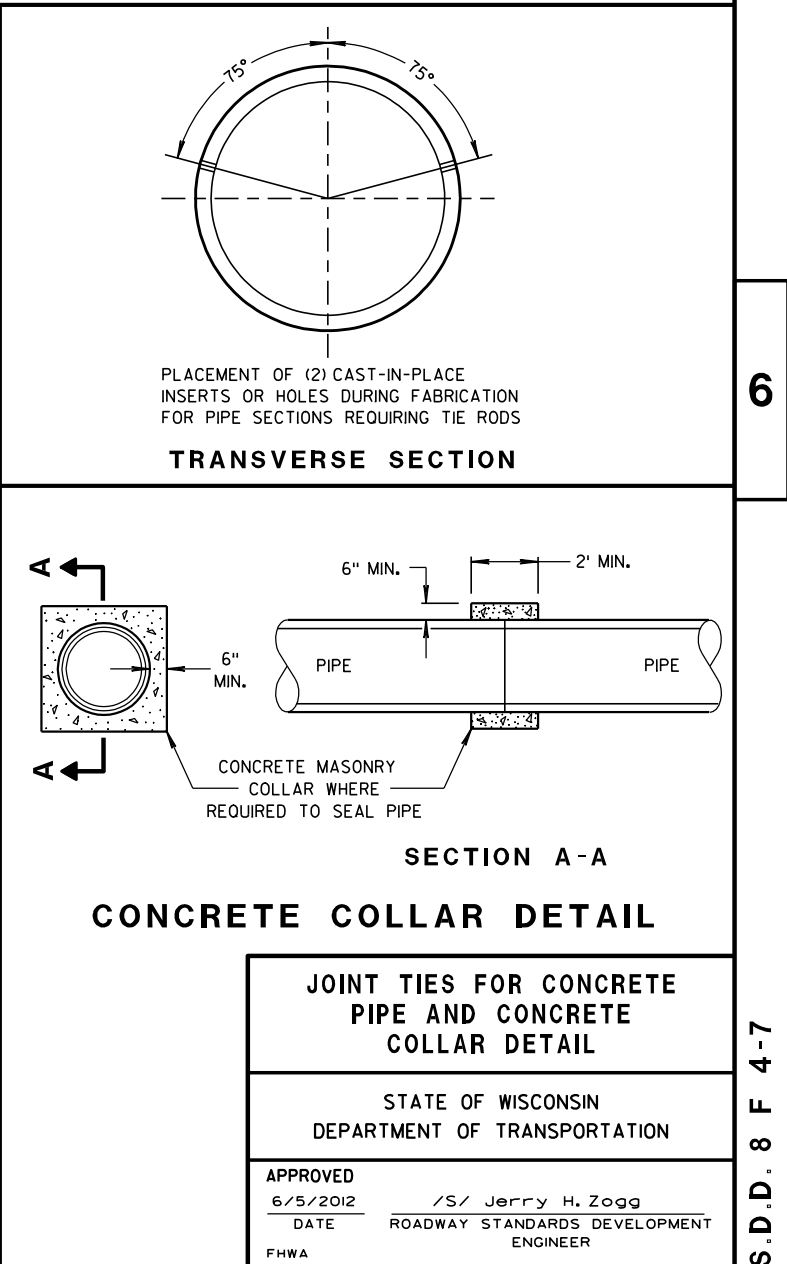
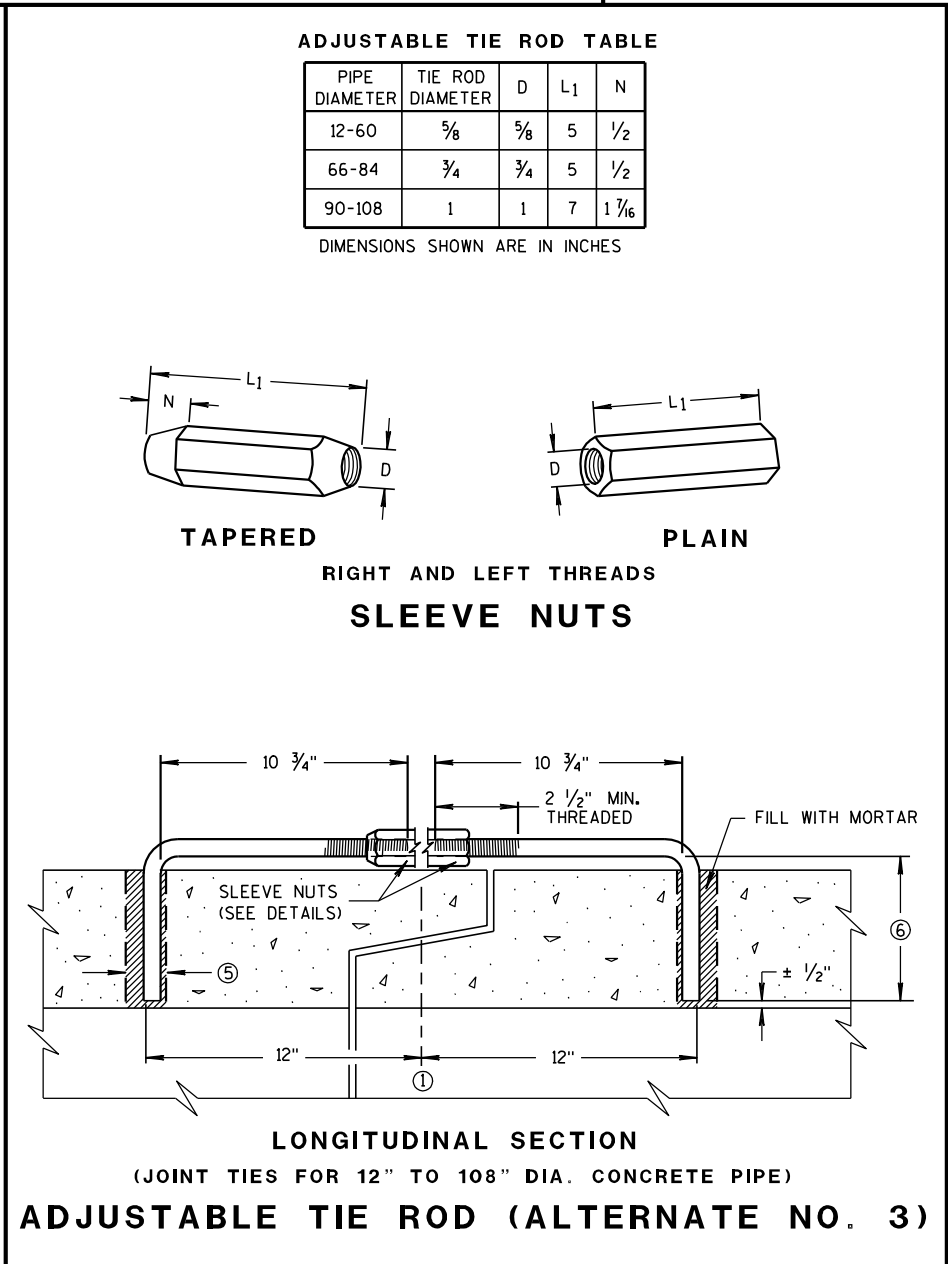
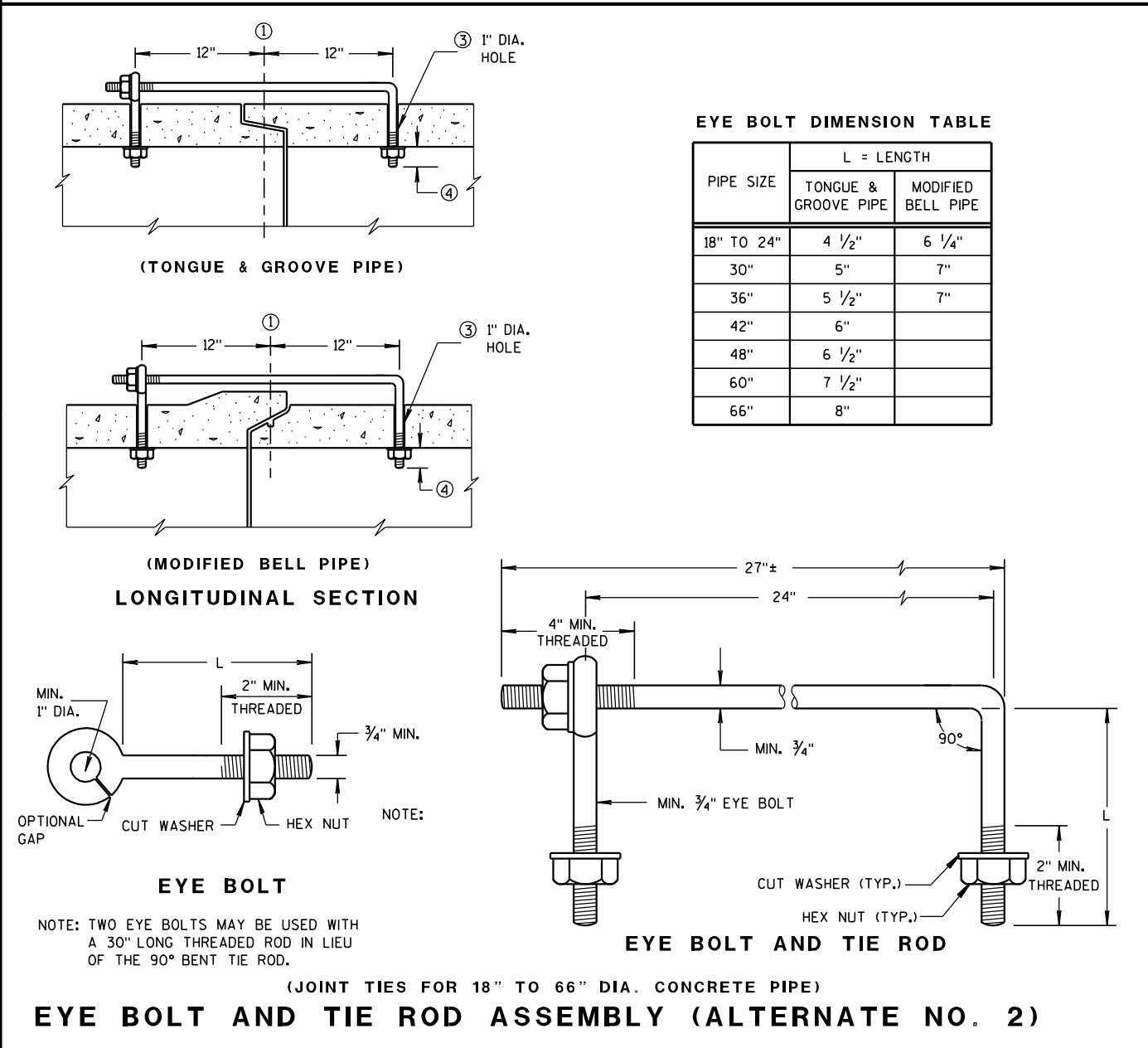
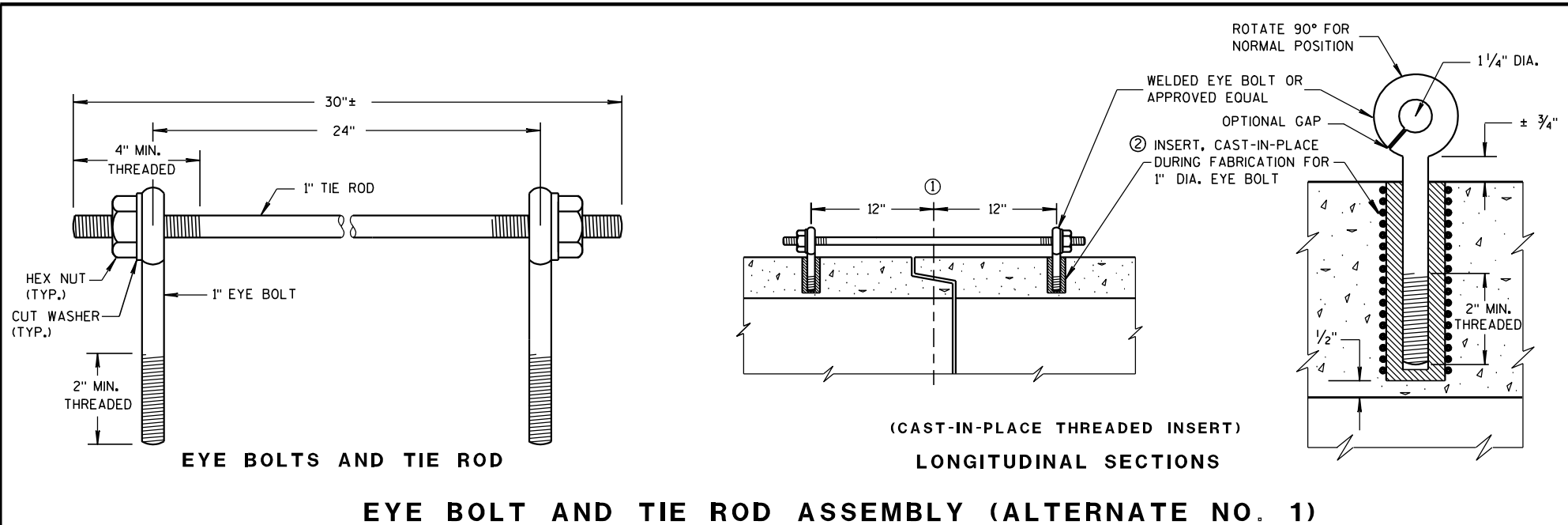
GENERAL NOTES

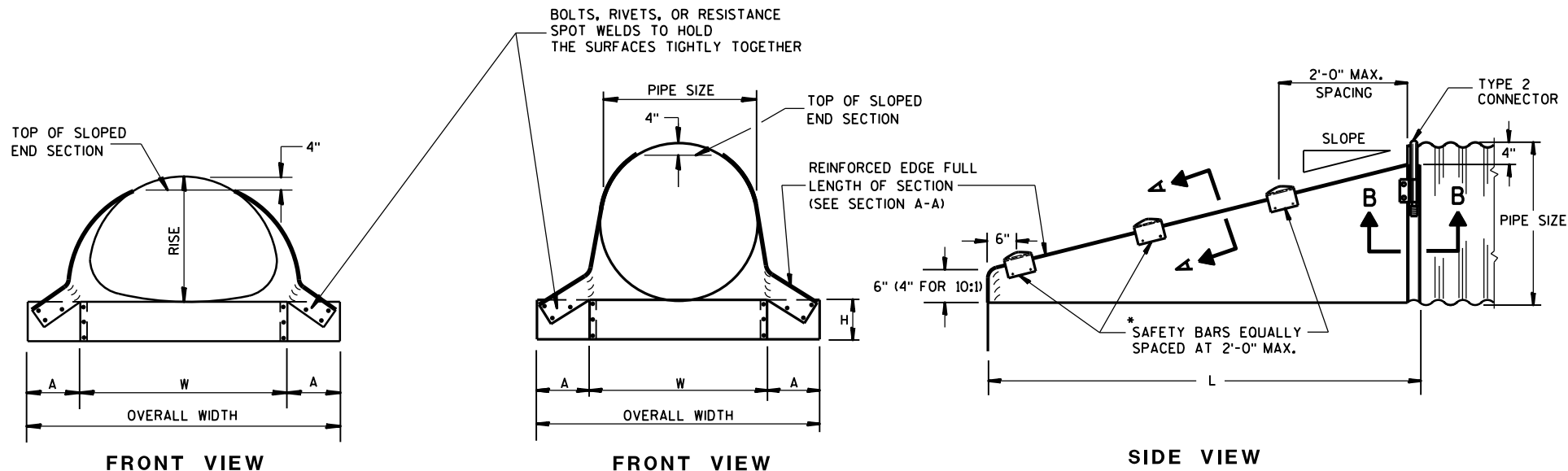
- DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.
- CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.
- ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.
- LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.
- WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.
- ① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR
CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94
DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA





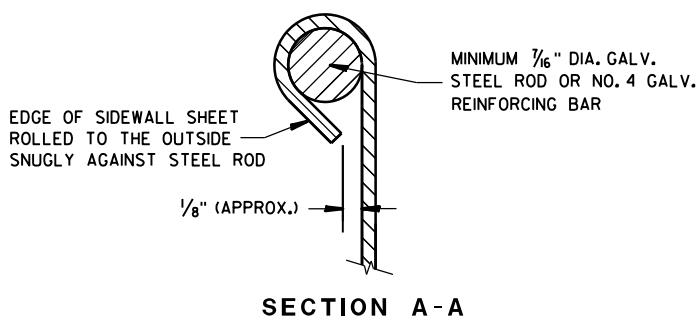
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

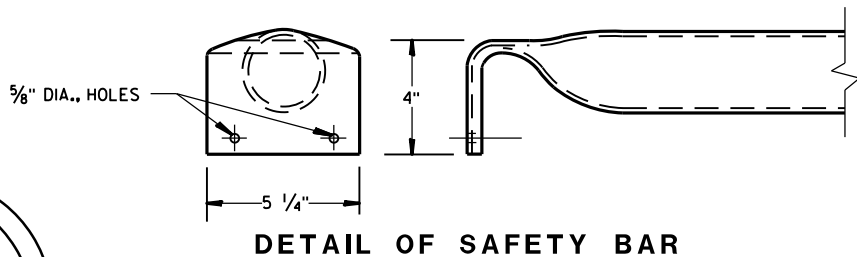
SLOPED END SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS, SECTION 521 FOR STEEL APRON ENDWALLS.

SAFETY BARS SHALL BE FABRICATED FROM GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A-53, GRADE B, SCHEDULE 40 OR APPROVED EQUAL.

STEEL APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS											
PIPE DIA. (IN.)	MIN. THICK. (Inches)	DIMENSIONS (Inches)				L DIMENSIONS					
		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	.064	8	6	21	37	4:1	20	6:1	30	10:1	70
18	.064	8	6	24	40	4:1	32	6:1	48	10:1	100
21	.064	8	6	27	43	4:1	44	6:1	66	10:1	130
24	.064	8	6	30	46	4:1	56	6:1	84	10:1	160
30	.109	12	9	36	60	4:1	80	6:1	120	10:1	220
36	.109	12	9	42	66	4:1	104	6:1	156	10:1	280
42	.109	16	12	48	80	4:1	128	6:1	192	—	—
48	.109	16	12	54	86	4:1	152	6:1	228	—	—
54	.109	16	12	60	92	4:1	176	6:1	264	—	—
60	.109	16	12	66	98	4:1	200	6:1	300	—	—

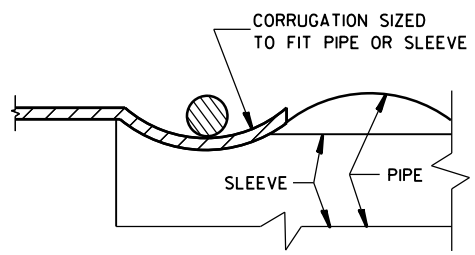
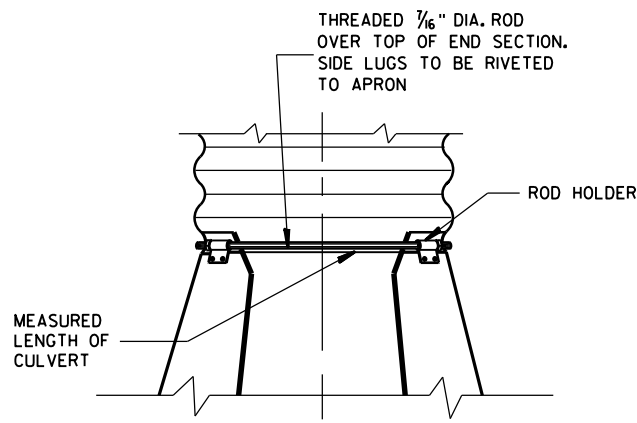
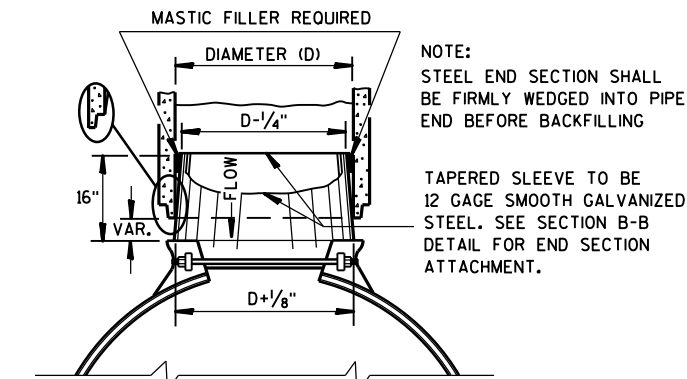
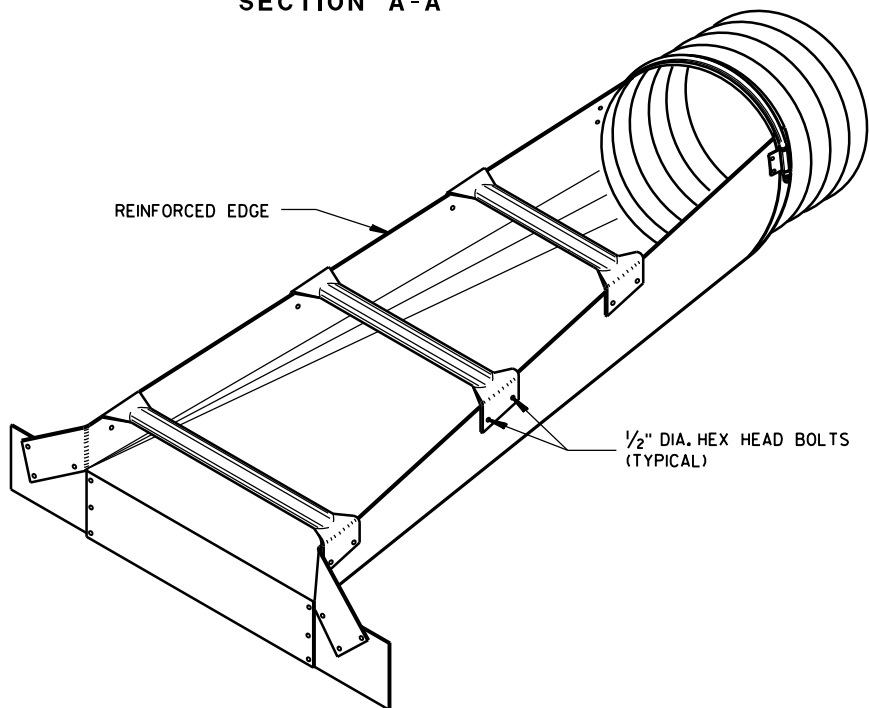


*NOTE: THREE SAFETY BARS ARE SHOWN. ACTUAL NUMBER OF BARS REQUIRED AT A 2'-0" C-C MAX. SPACING WILL VARY DEPENDING ON THE LENGTH OF THE END SECTION.



STEEL APRON ENDWALLS FOR PIPE ARCH SLOPED SIDE DRAINS											
EQUIV. DIA. (Inches)	(Inches)		MIN. THICK. (Inches) ①	DIMENSIONS (Inches)				L DIMENSIONS			
	SPAN	RISE		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	17	13	.064 *	7	6	30	44	4:1	19	6:1	30 10:1 ②
18	21	15	.064 *	8	6	27	43	4:1	20	6:1	30 10:1 ②
21	24	18	.064 *	8	6	30	46	4:1	32	6:1	48 10:1 ②
24	28	20	.064 *	8	6	34	50	4:1	40	6:1	60 10:1 ②
30	35	24	.079 *	12	9	41	65	4:1	56	6:1	84 10:1 ②
36	42	29	.109 *	12	9	48	72	4:1	76	6:1	114 10:1 ②
42	49	33	.109	16	12	55	87	4:1	92	6:1	138 —
48	57	38	.109	16	12	63	95	4:1	112	6:1	168 —
54	64	43	.109	16	12	70	102	4:1	132	6:1	198 —

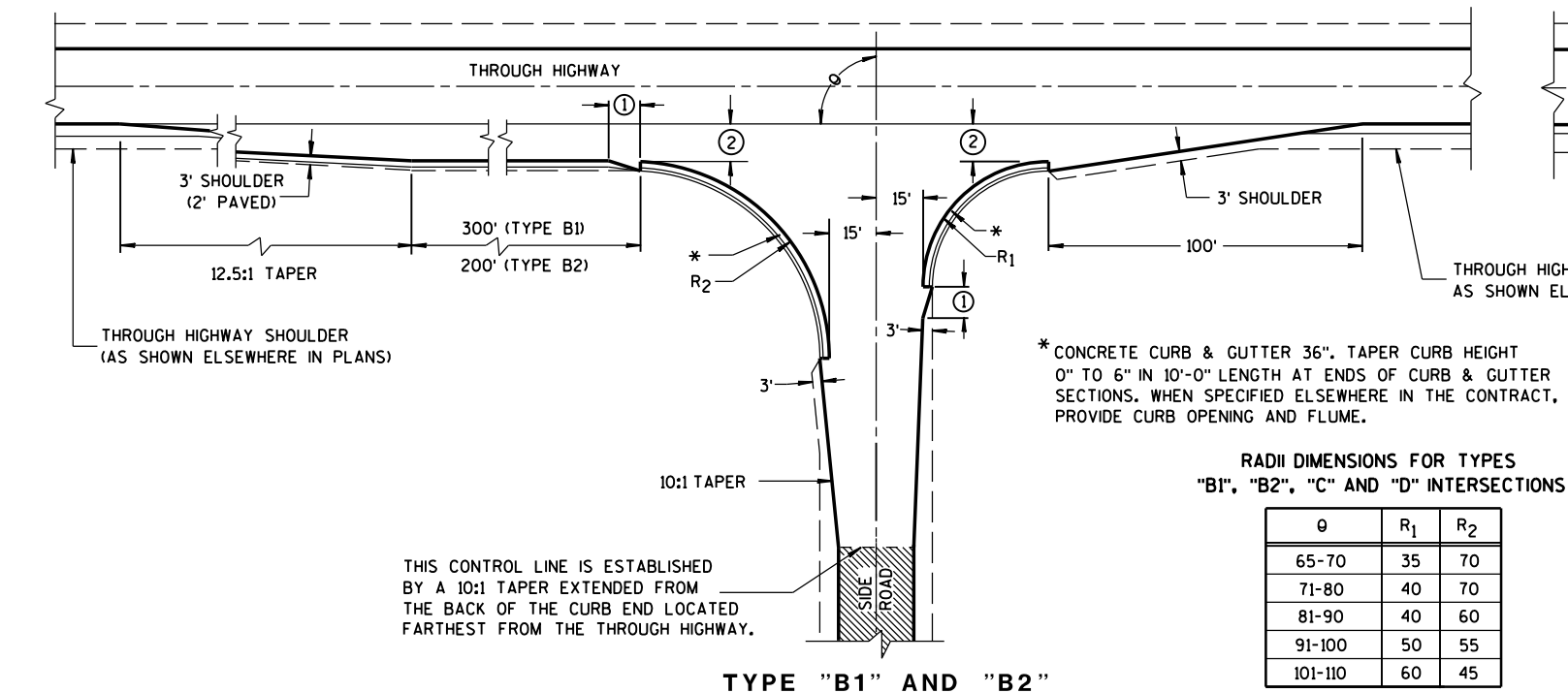
① * MINIMUM THICKNESS OF ALL 10:1 SLOPED SIDE DRAINS IS 0.109".
② ACTUAL SLOPE GREATER THAN 10:1.



STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE DRAINS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/14/2012
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT
ENGINEER
FHWA



RADII DIMENSIONS FOR TYPES "B1", "B2", "C" AND "D" INTERSECTIONS

θ	R ₁	R ₂
65-70	35	70
71-80	40	70
81-90	40	60
91-100	50	55
101-110	60	45

GENERAL NOTES

DESIGNS MAY BE USED INTERCHANGEABLY IN COMBINATION OR SEPARATELY FOR ANY ONE COMPLETE INTERSECTION DEPENDING UPON INTERSECTION ANGLE AND SURFACING OF EACH APPROACH ROADWAY.

SIDE ROAD SURFACING NOTE

WHEN THE SIDE ROAD IS NOT PRESENTLY PAVED, PAVEMENT SHALL BE PLACED TO THE LIMITS SHOWN UNLESS OTHERWISE PROVIDED IN THE CONTRACT. WHERE THE CONSTRUCTION LIMITS ARE BEYOND THE PAVING LIMITS, CRUSHED AGGREGATE SURFACING SHALL BE PLACED BETWEEN THE PAVING LIMITS AND CONSTRUCTION LIMITS.

WHEN THE SIDE ROAD IS PRESENTLY PAVED, NEW PAVEMENT SHALL BE PLACED TO THE LIMITS OF DESIGN AS SHOWN AND BEYOND, IF NECESSARY, TO MEET EXISTING PAVEMENT.

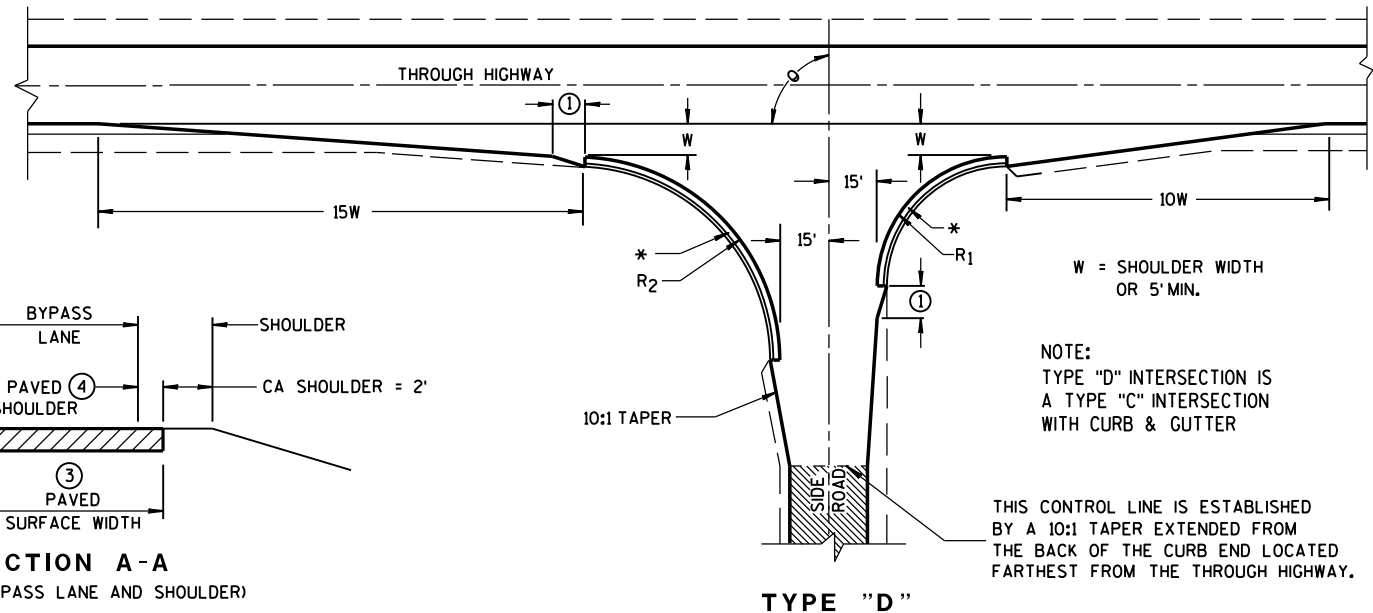
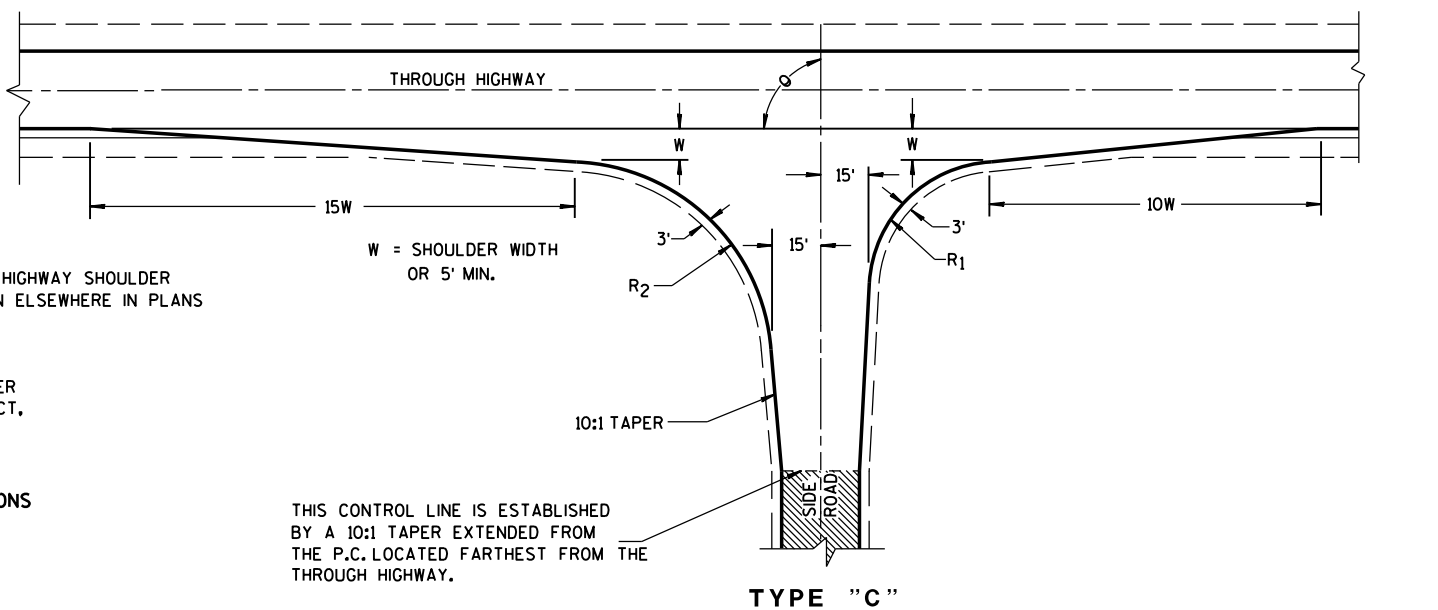
WHEN THE SIDE ROAD IS THE CONSTRUCTION PROJECT, THE INTERSECTION SURFACING SHALL BE THE SAME AS FOR THE PROJECT.

EXISTING PAVED SURFACE

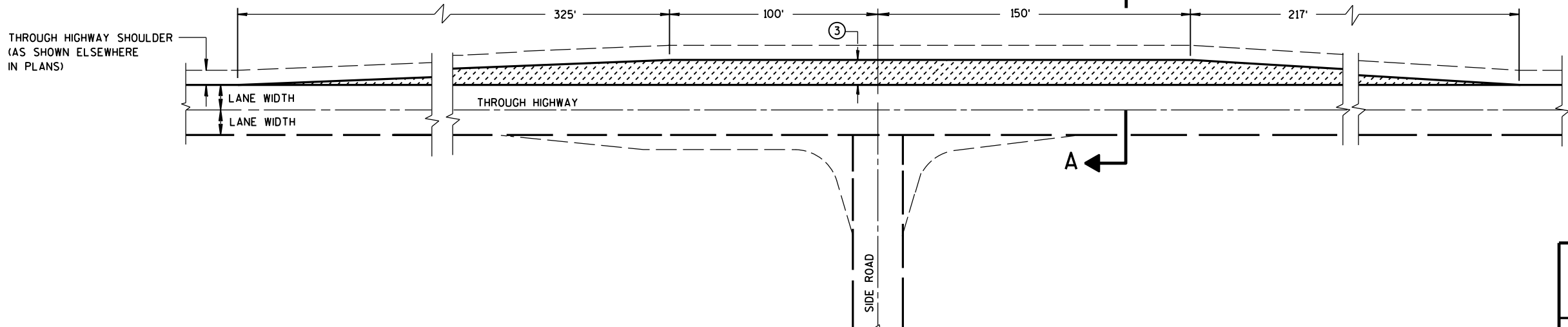
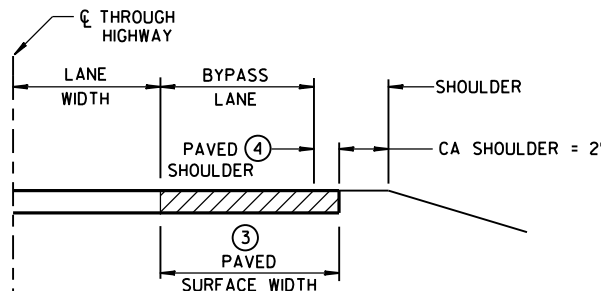
BYPASS LANE

- 10-FT TYPICAL.
- 12-FT** PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLAN.

**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.
- BYPASS LANE PAVED SURFACE WIDTH OUTSIDE OF TRAVEL LANE
-ASPHALT = 12-FT PLUS PAVED SHOULDER WIDTH.
-PC CPNCRETE = 13-FT PLUS PAVED SHOULDER WIDTH.
- BYPASS LANE PAVED SHOULDER WIDTH = THE GREATER OF 1-FT OR THE PAVED SHOULDER WIDTH OF THE THROUGH HIGHWAY.



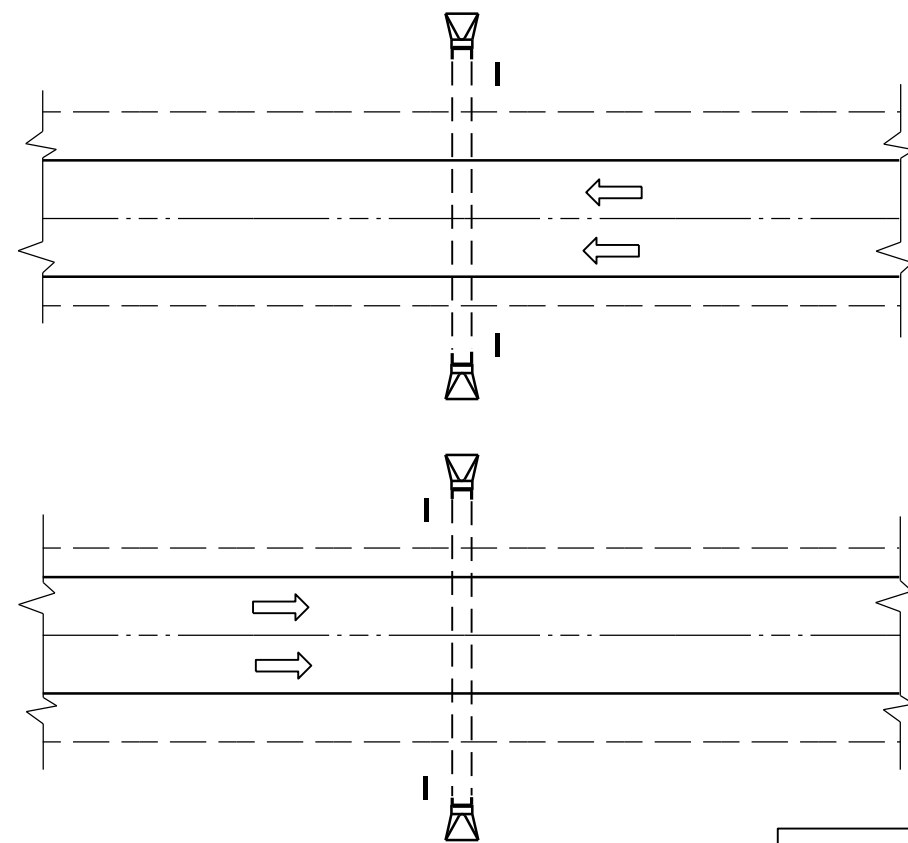
NOTE:
TYPE "D" INTERSECTION IS A TYPE "C" INTERSECTION WITH CURB & GUTTER



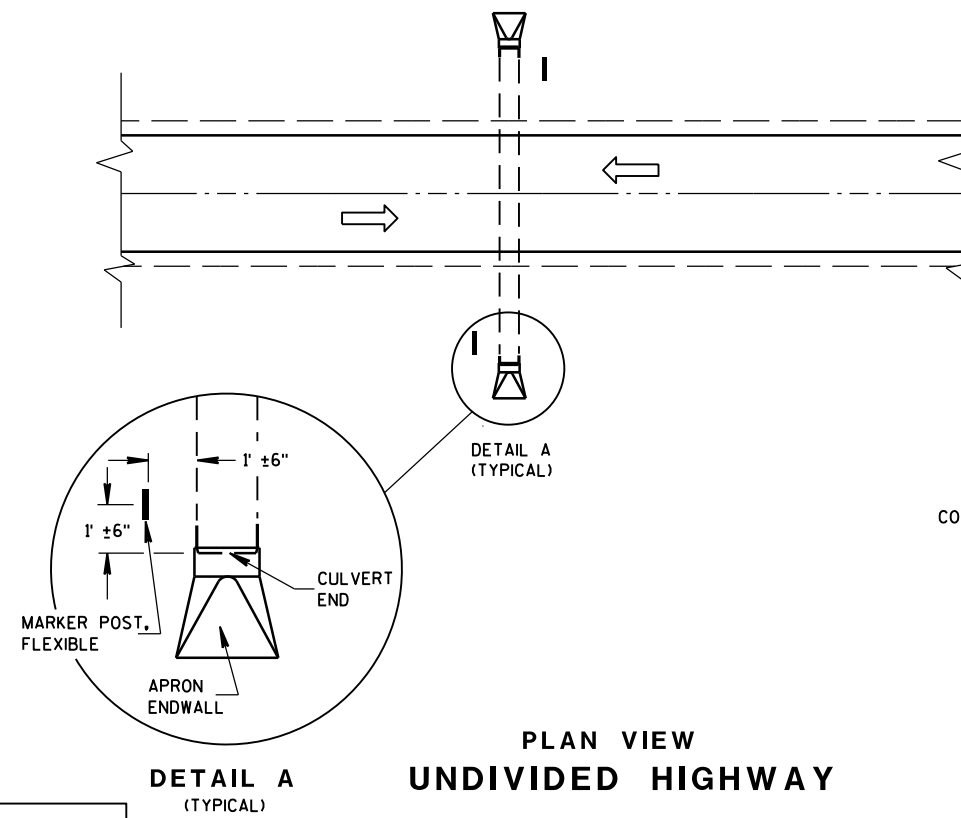
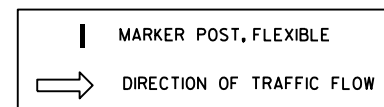
TEE INTERSECTION BYPASS LANE DETAIL

AT-GRADE SIDE ROAD
INTERSECTION, TYPES "B1", "B2",
"C" AND "D" AND TEE
INTERSECTION BYPASS LANE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



PLAN VIEW
DIVIDED HIGHWAY

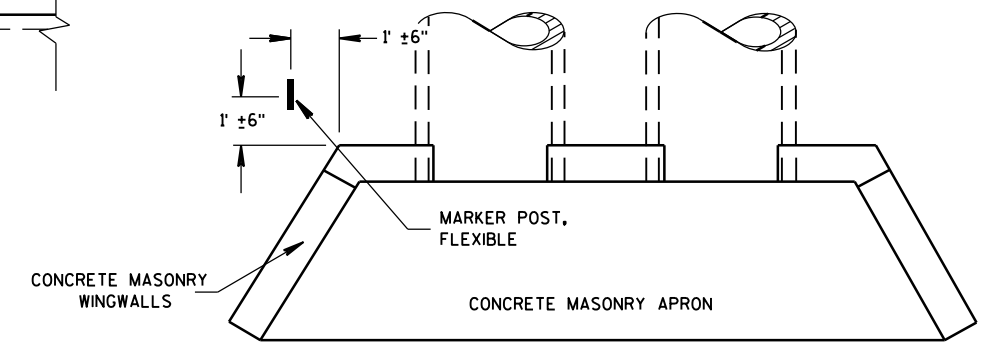


PLAN VIEW
UNDIVIDED HIGHWAY

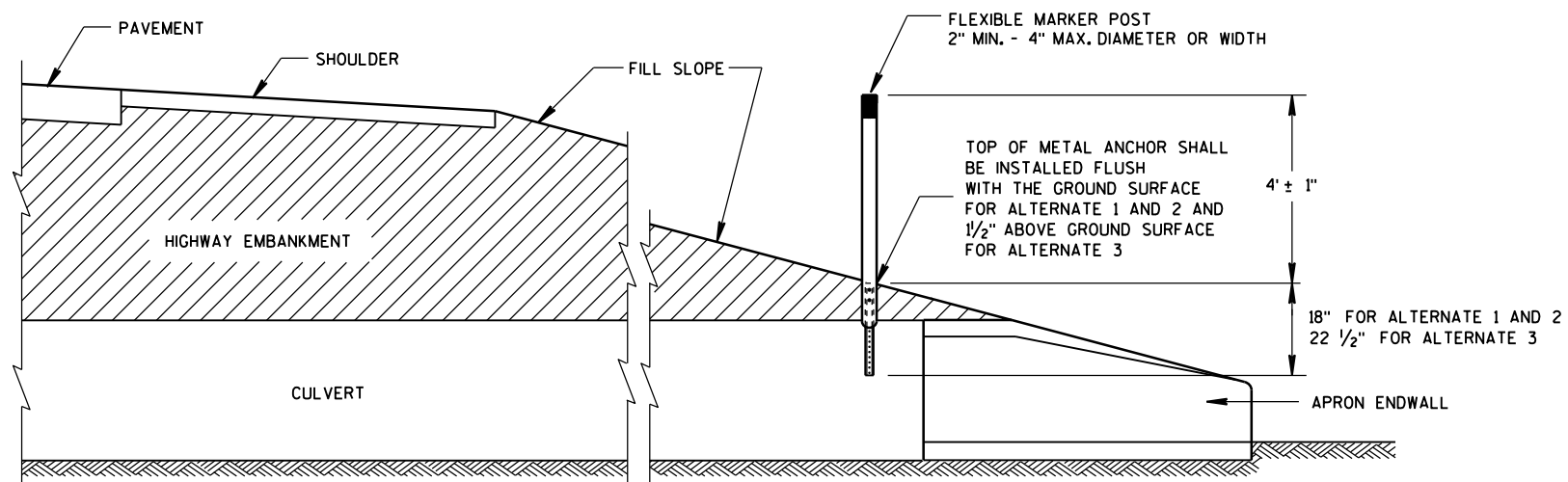
FLEXIBLE MARKER POST LOCATION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



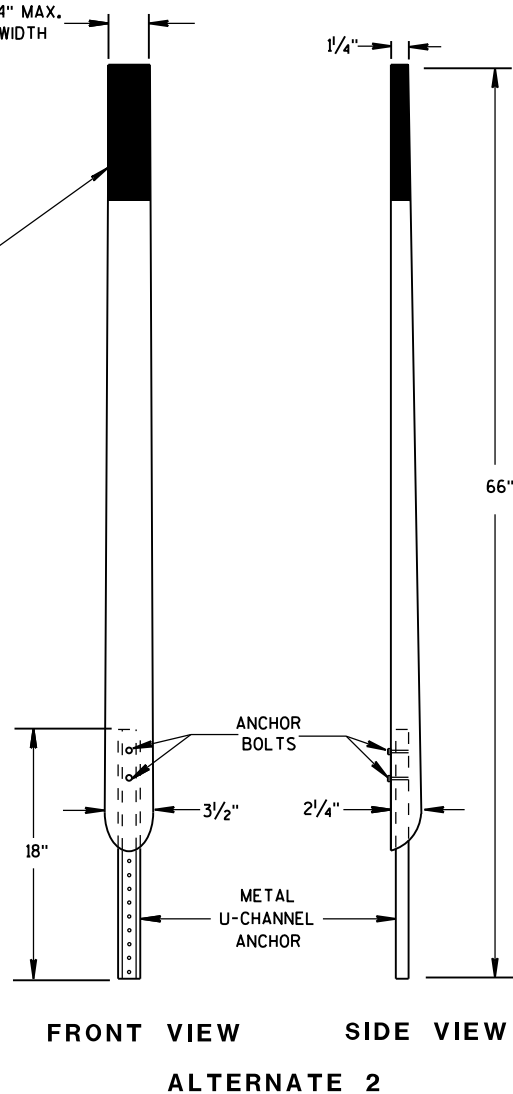
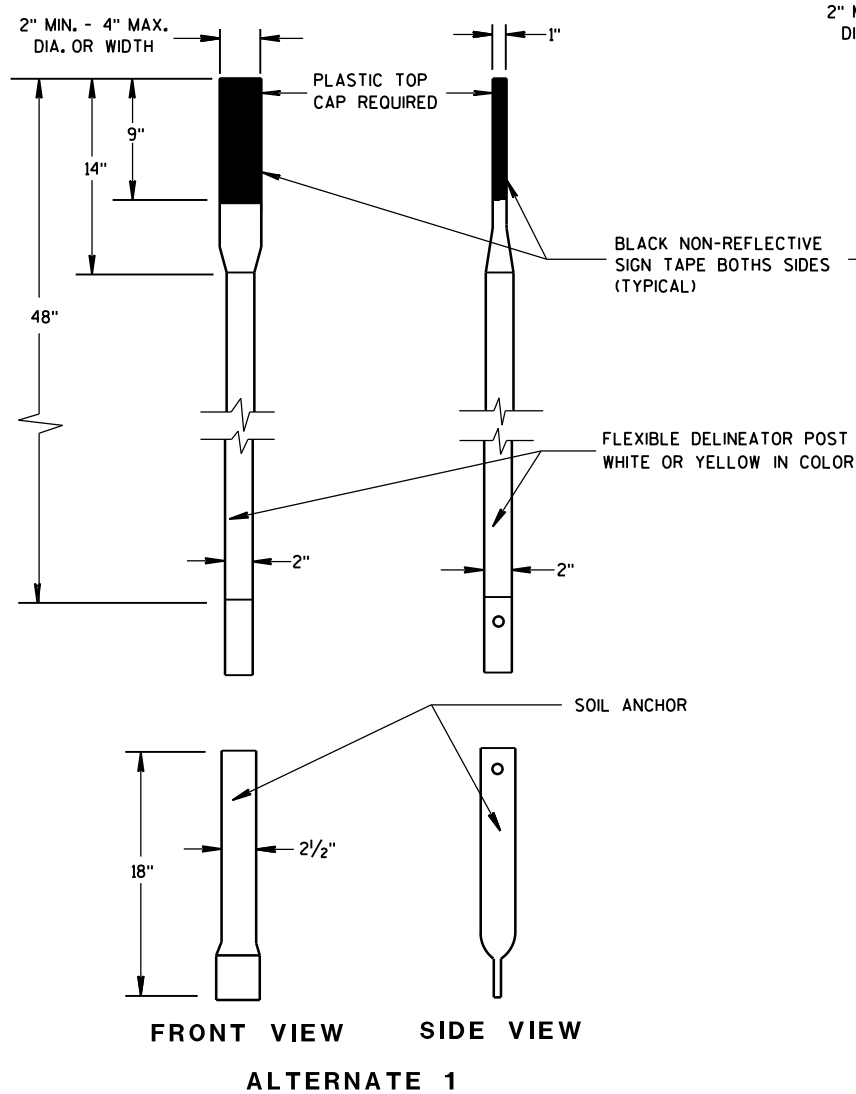
PLAN VIEW
CONCRETE MASONRY ENDWALLS FOR
CULVERT PIPE AND PIPE ARCH



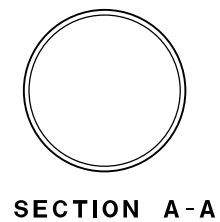
CROSS SECTION
FLEXIBLE MARKER POST

FLEXIBLE MARKER POST
FOR CULVERT END

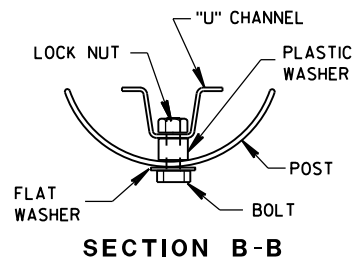
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



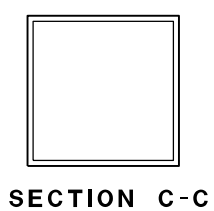
FLEXIBLE MARKER POSTS



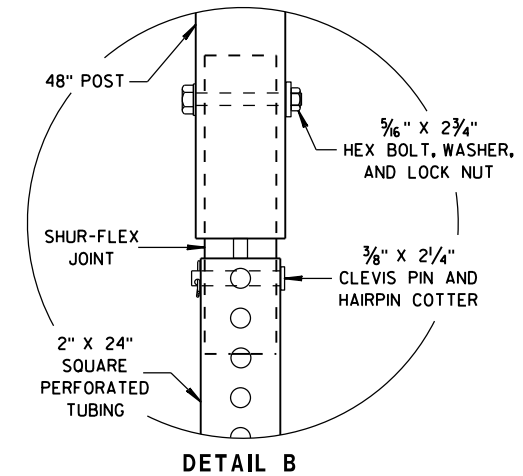
SECTION A-A



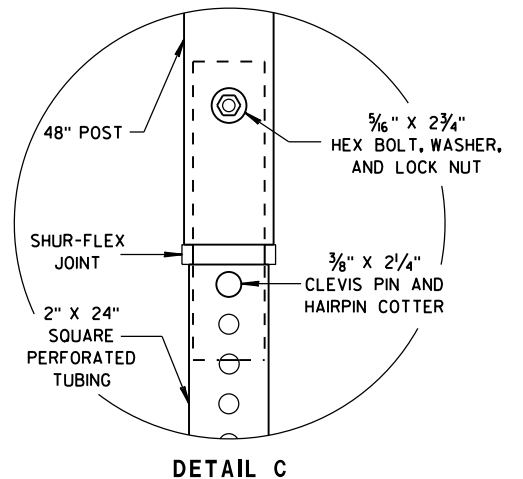
SECTION B-B



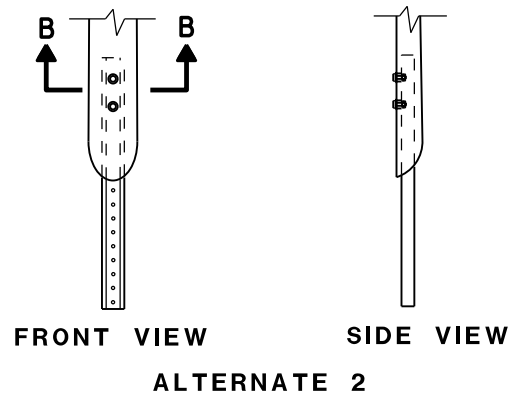
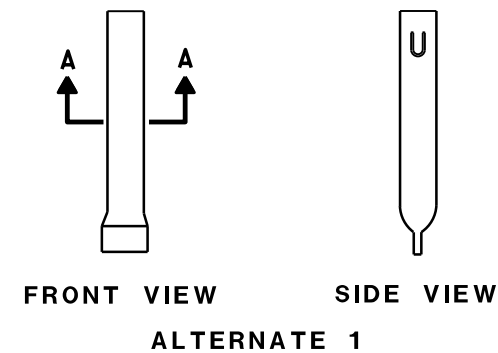
SECTION C-C



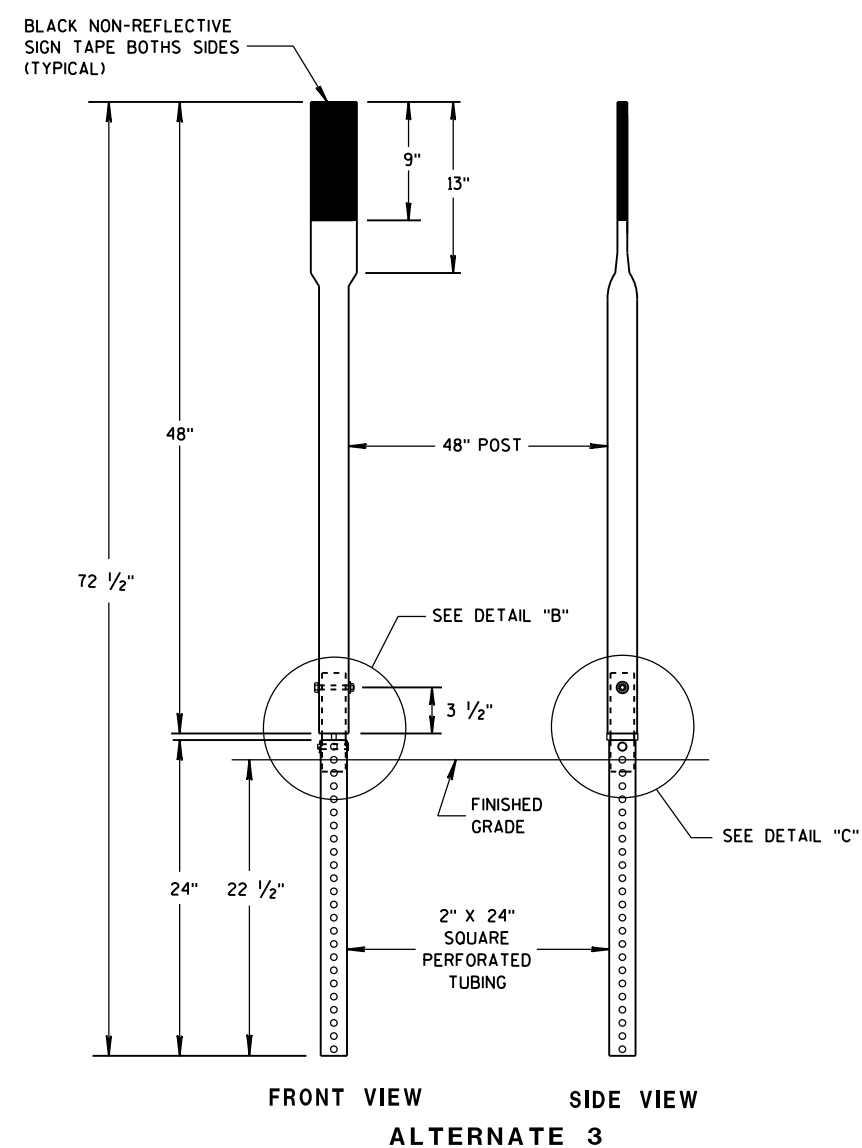
DETAIL B



DETAIL C

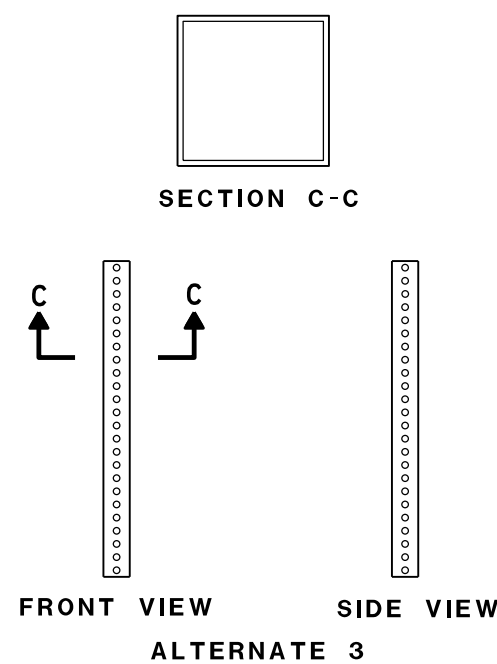


FLEXIBLE MARKER POST ANCHORS



FRONT VIEW SIDE VIEW

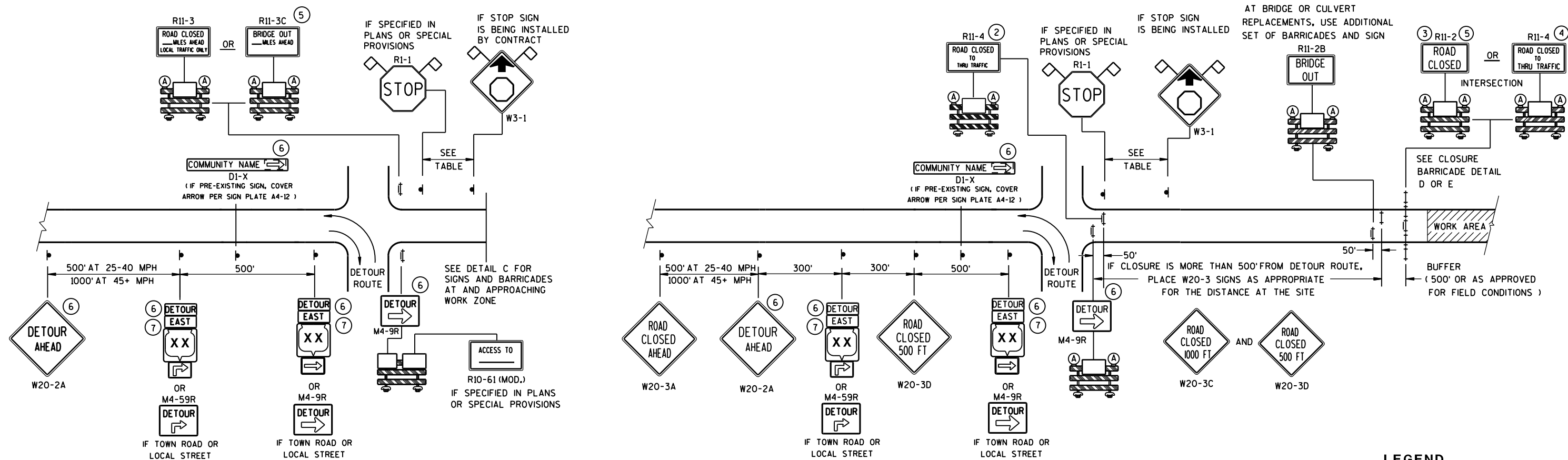
ALTERNATE 3



FRONT VIEW SIDE VIEW

ALTERNATE 3

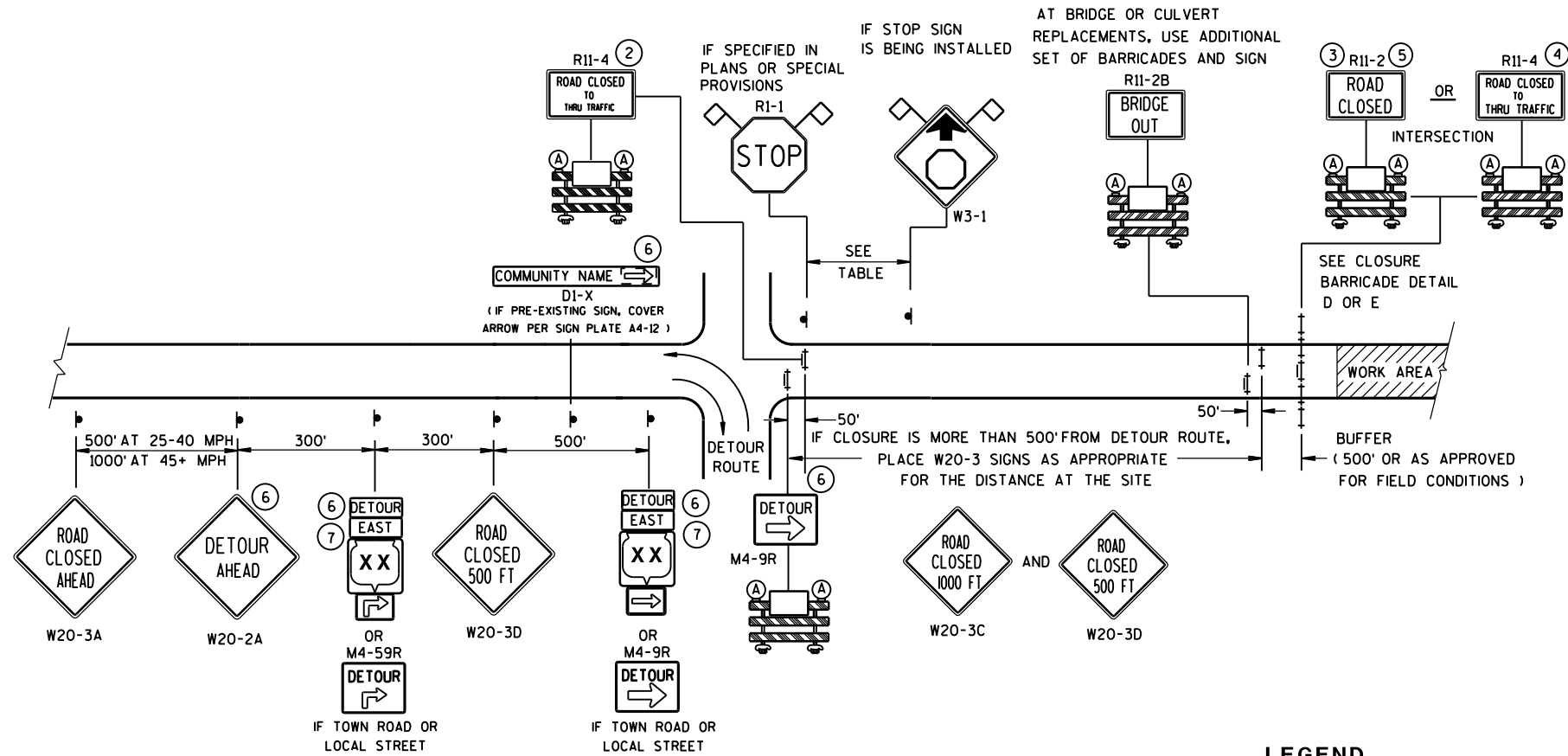
FLEXIBLE MARKER POST FOR CULVERT END	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 10/1/2012 DATE	/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN
FHWA	



DETAIL A

MAINLINE CLOSURE WITH POSTED DETOUR

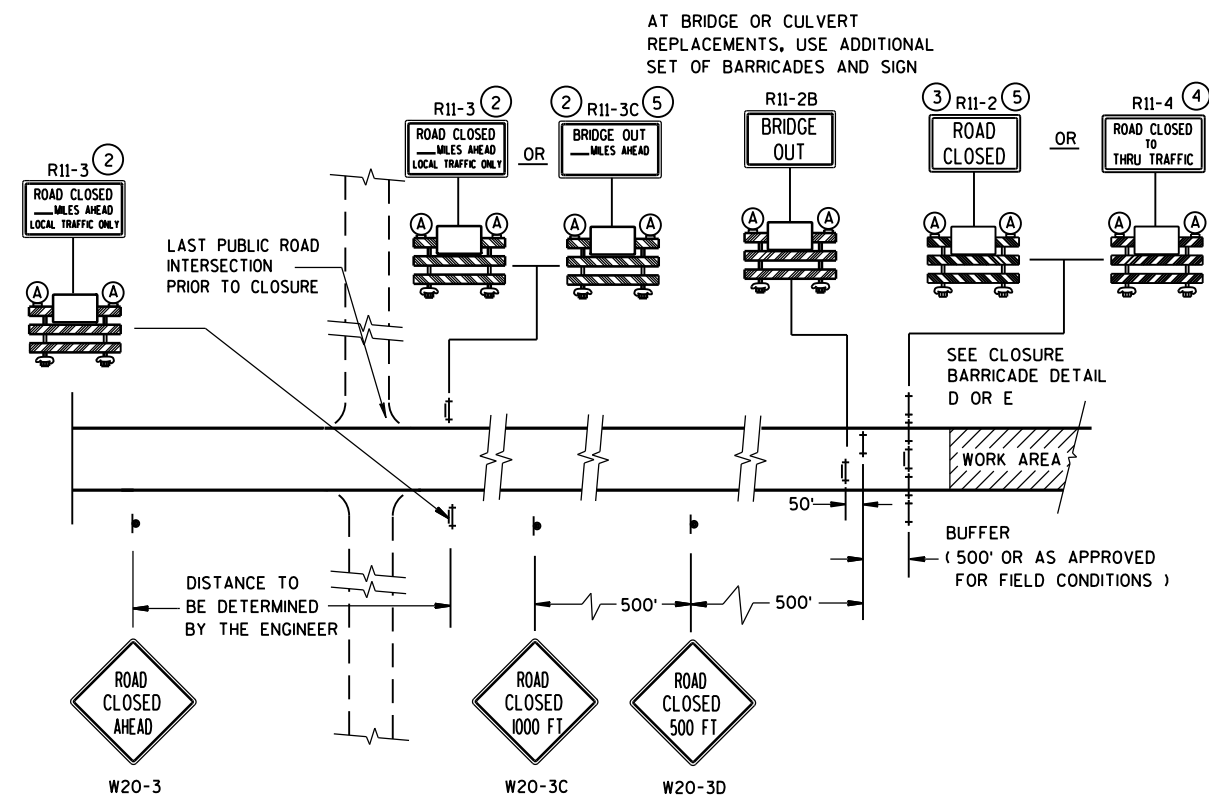
WORK ZONE GREATER THAN 1/2 MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B

MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN 1/2 MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

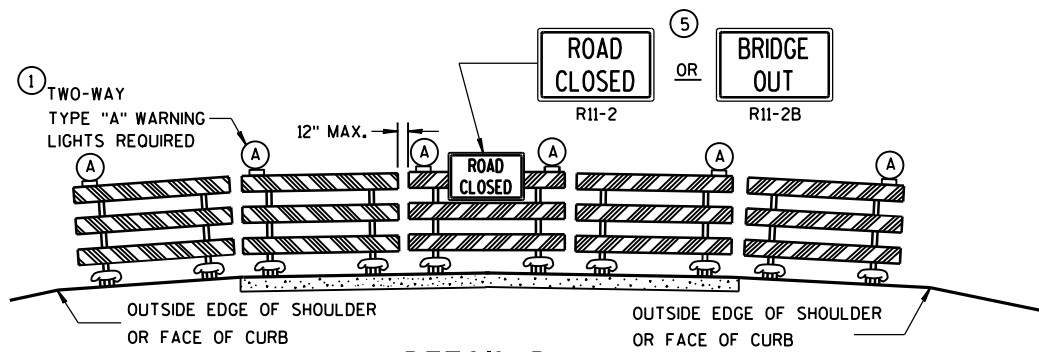
- # LEGEND
-  SIGN ON PERMANENT SUPPORT
-  TYPE III BARRICADE
-  TYPE III BARRICADE WITH ATTACHED SIGN
-  TYPE "A" WARNING LIGHT (FLASHING)
-  WORK AREA
-  M4-8
M3-X
-  OR  OR 
M1-4 M1-5A M1-6
-  OR 
MO5-1 MO6-1
-  FLAGS, 16" X 16" MIN., (ORANGE)

SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES (1) THROUGH (7)

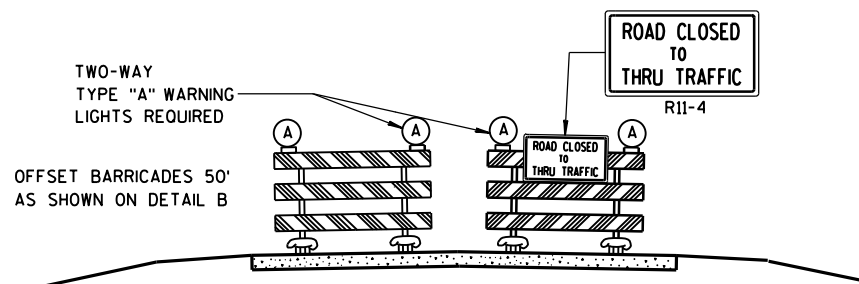
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015	/S/ Peter Amakobe Atepe
DATE	STATEWIDE WORK ZONE TRAFFIC
FHWA	SAFETY ENGINEER



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2-SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

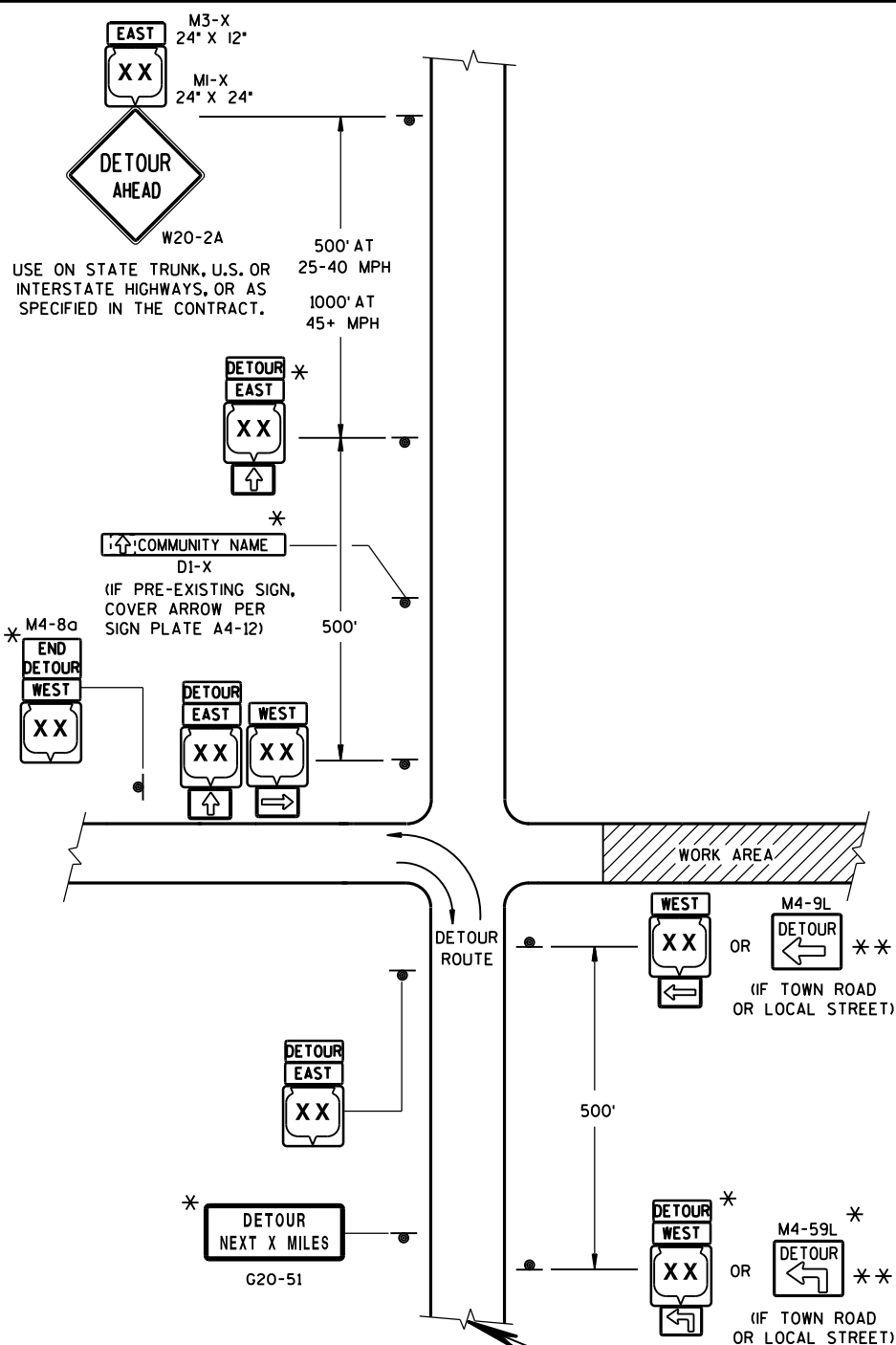
"WO AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

- R11-2 SHALL BE 48" X 30".
- R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".
- M4-9 SHALL BE 30" X 24".
- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1-1 SHALL BE 36" X 36".

- 1 TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT LIGHT SPACING).
- 2 THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.
- 3 FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.
- 4 FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.
- 5 FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.
- 6 INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- 7 "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR MAINLINE CLOSURES	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
Sept. 2015 DATE	/S/ Peter Amokobe Atepe STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA	



LEGEND

SIGN ON PERMANENT SUPPORT

WORK AREA

M4-8
M3-X

OR OR
MI-4 MI-5A MI-6

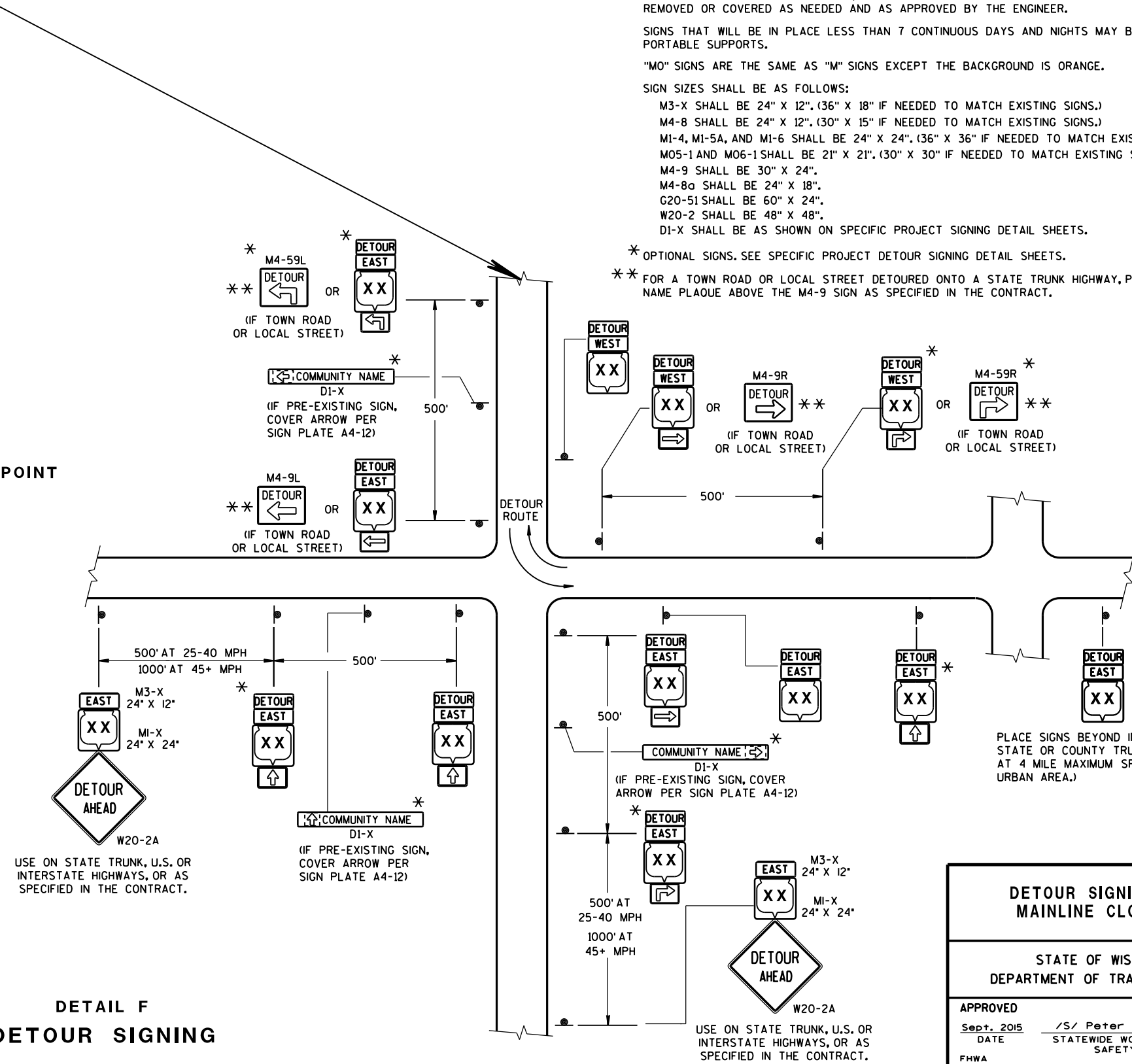
OR OR
M05-1 M06-1 M06-1

SEE SPECIFIC PROJECT DETOUR
SIGNING DETAIL SHEETS AND
DETAIL A OR B ON SDD 15C2-SHEET "a"

THIS DRAWING PROVIDES GENERAL GUIDANCE
ON TYPICAL DETOUR SIGN LAYOUT AND SPACING.
SEE PROJECT DETOUR SIGNING SHEETS FOR
SPECIFIC DETAILS FOR EACH PROJECT.

MATCH POINT

DETAIL F
DETOUR SIGNING



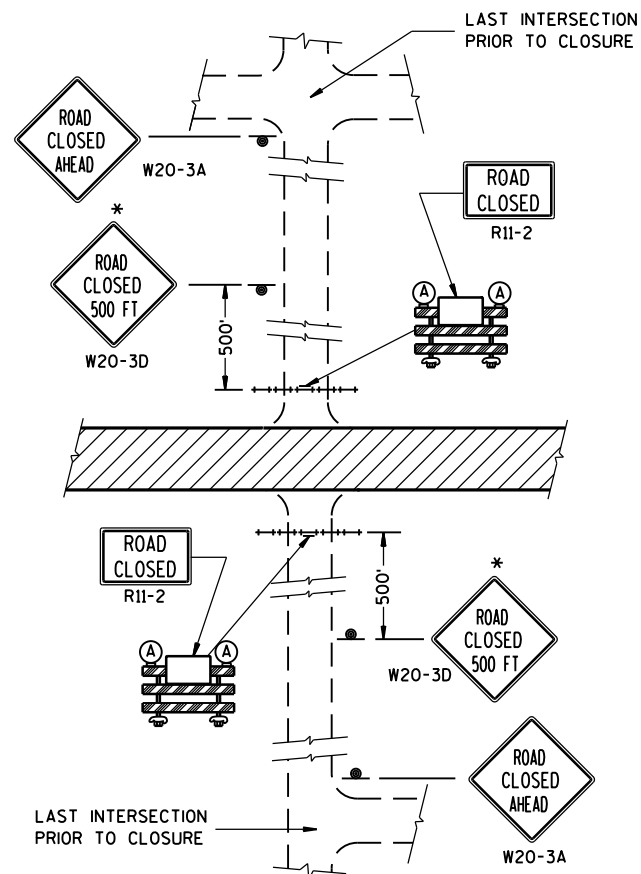
GENERAL NOTES

- THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
- IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS, MODIFY EXISTING SIGNS WHERE POSSIBLE.
- THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.
- ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.
- SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.
- "MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.
- SIGN SIZES SHALL BE AS FOLLOWS:
- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
 - M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
 - MI-4, MI-5A, AND MI-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
 - M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
 - M4-9 SHALL BE 30" X 24".
 - M4-8a SHALL BE 24" X 18".
 - G20-51 SHALL BE 60" X 24".
 - W20-2 SHALL BE 48" X 48".
 - D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- * OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.
- ** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.

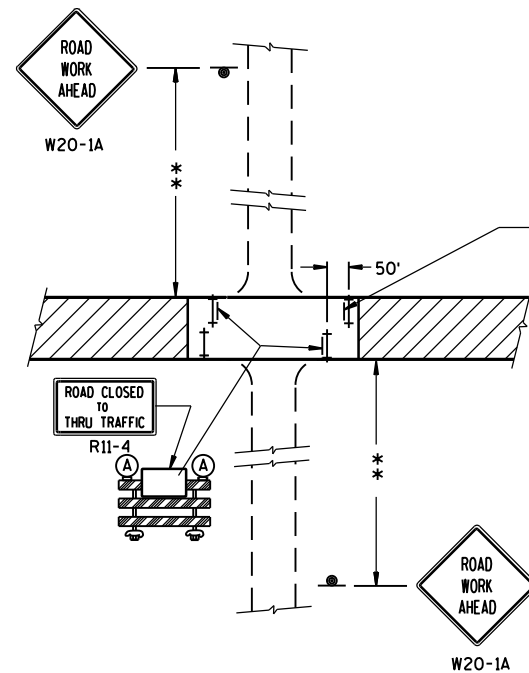
**DETOUR SIGNING FOR
MAINLINE CLOSURES**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

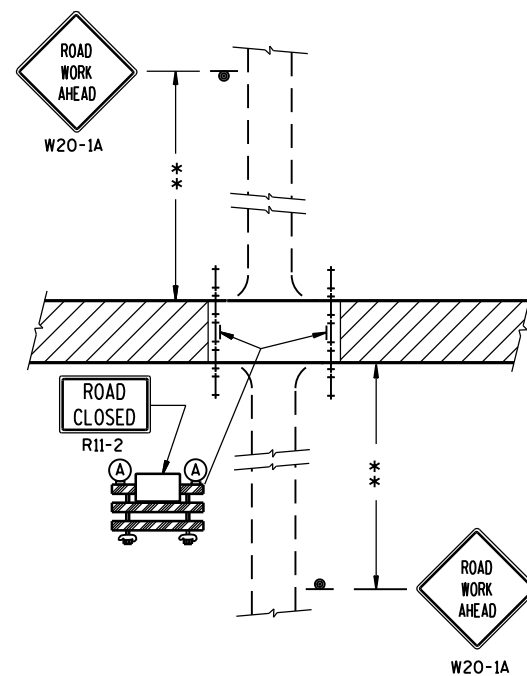
APPROVED
DATE Sept. 2015 /S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE TRAFFIC
SAFETY ENGINEER
FHWA

**DETAIL 1**

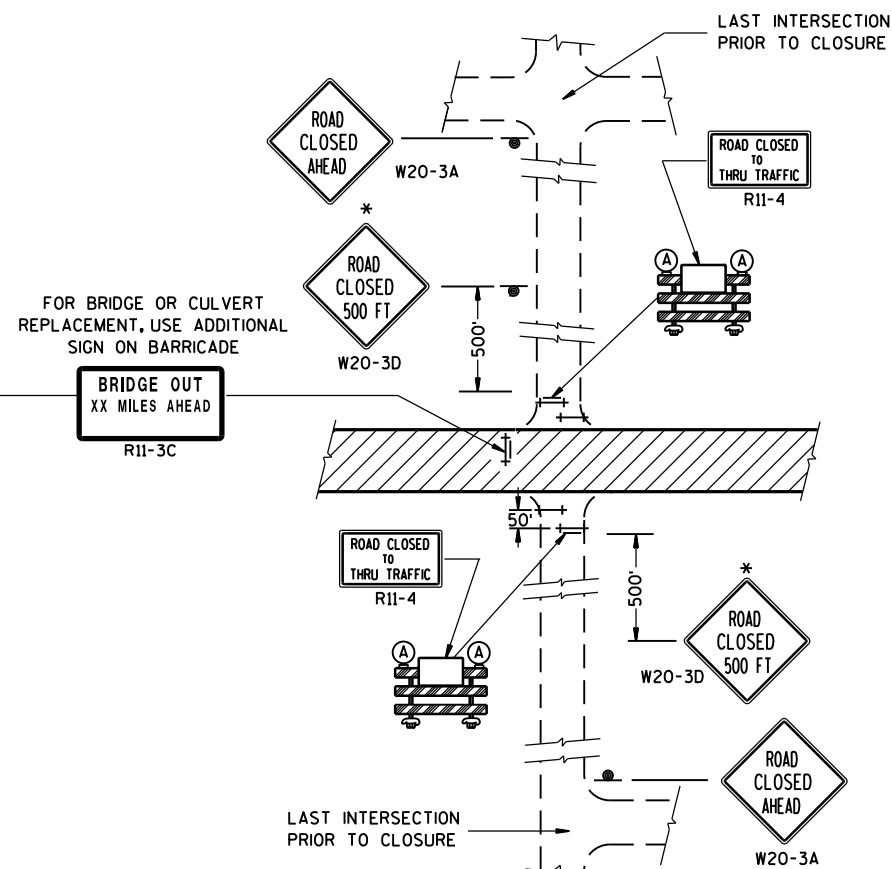
(NO ACCESS TO PROJECT)

**DETAIL 3**

(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS).

**DETAIL 2**

(PUBLIC CROSS-TRAFFIC MAINTAINED. NO ACCESS TO PROJECT).

**DETAIL 4**

(CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3 AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

R11-2 SHALL BE 48" X 30".

R11-4 AND R11-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

- ⊙ SIGN ON PERMANENT SUPPORT
- ⊥ TYPE III BARRICADE
- ⊥ TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- ▨ WORK AREA

**BARRICADES AND SIGNS
FOR
SIDEROAD CLOSURES**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept. 2015

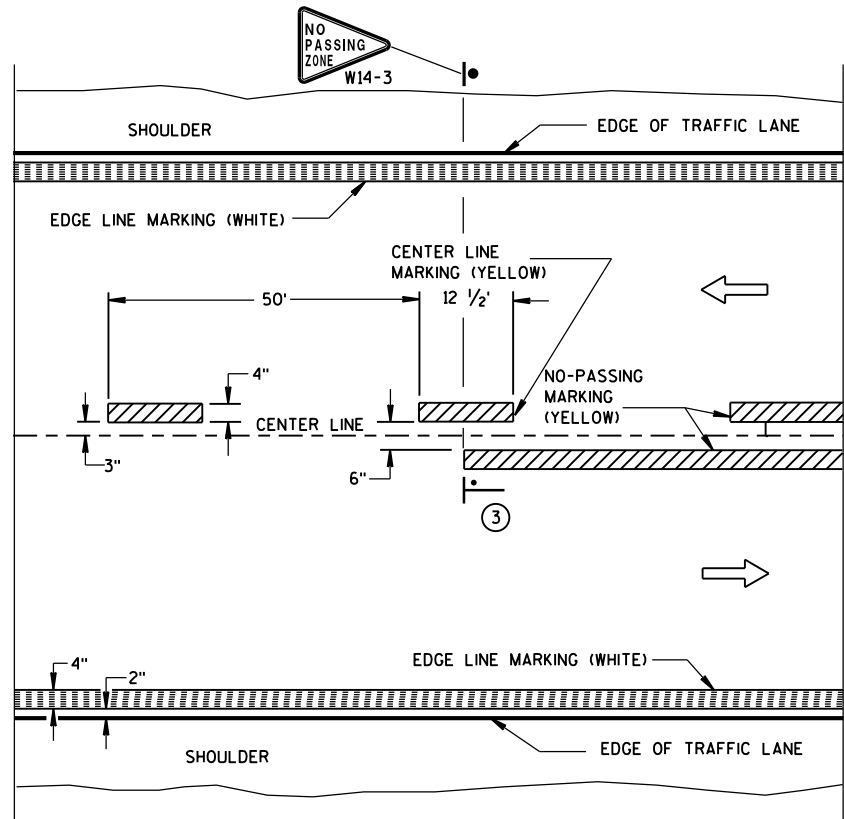
DATE

FHWA

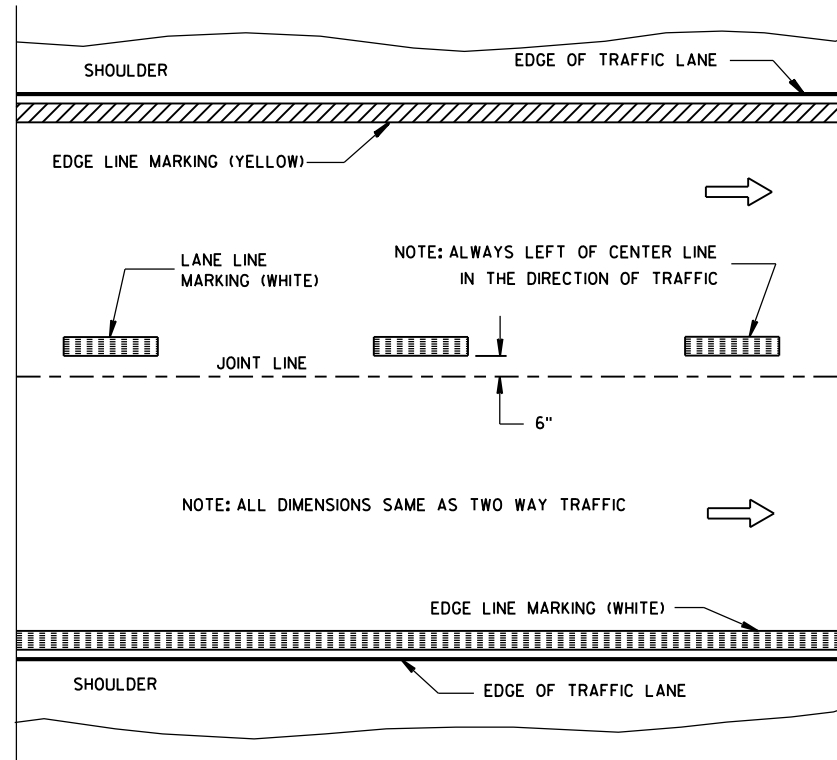
/S/ Peter Amakobe Atepe

STATEWIDE WORK ZONE TRAFFIC

SAFETY ENGINEER

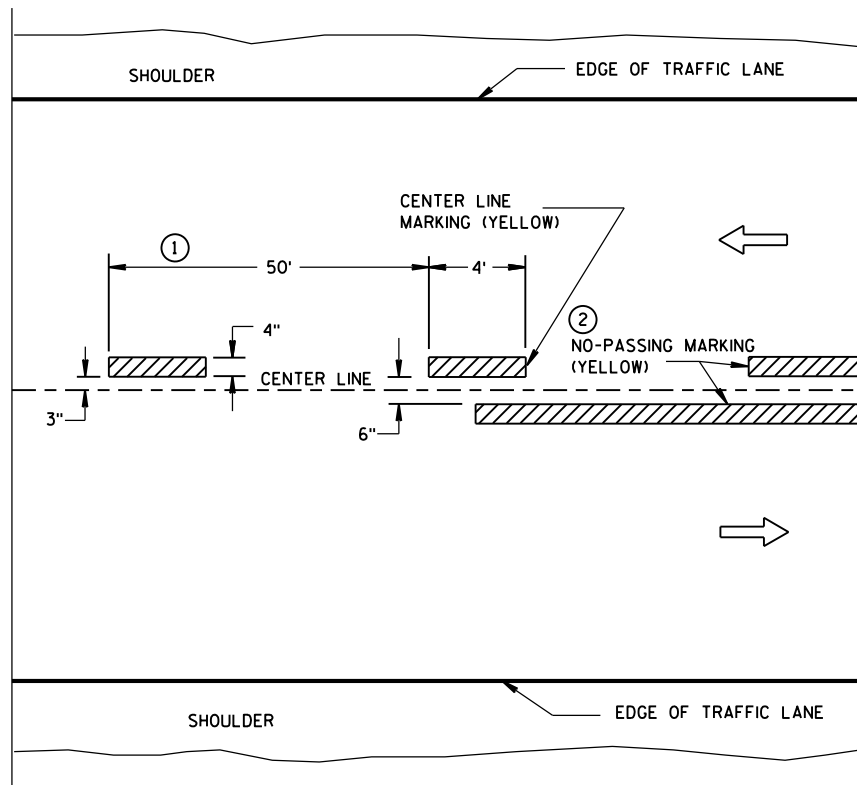


TWO WAY TRAFFIC

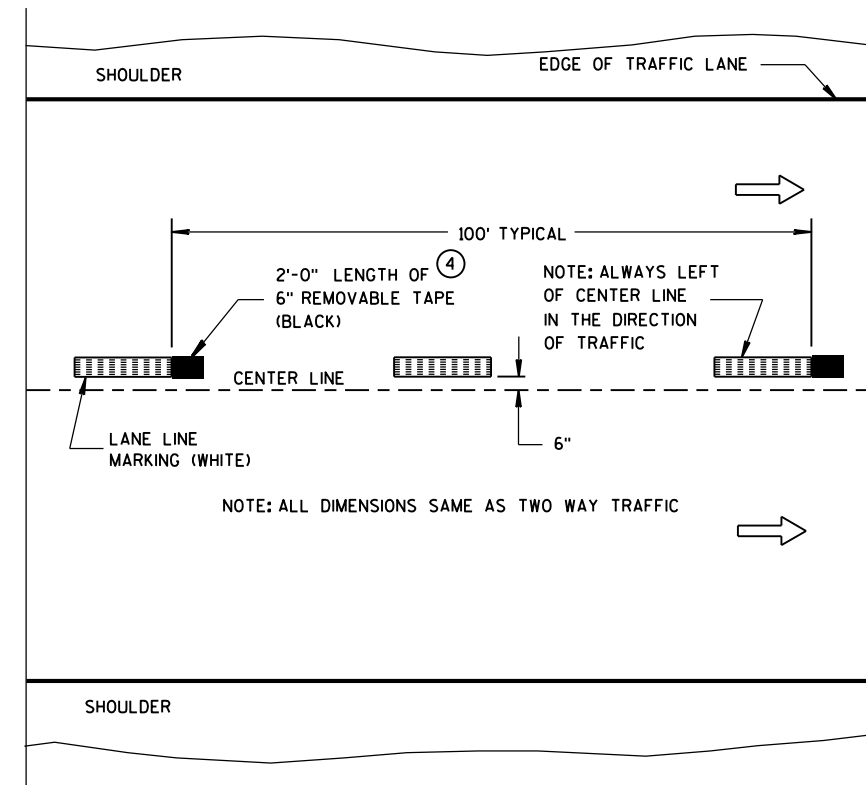


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING
(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

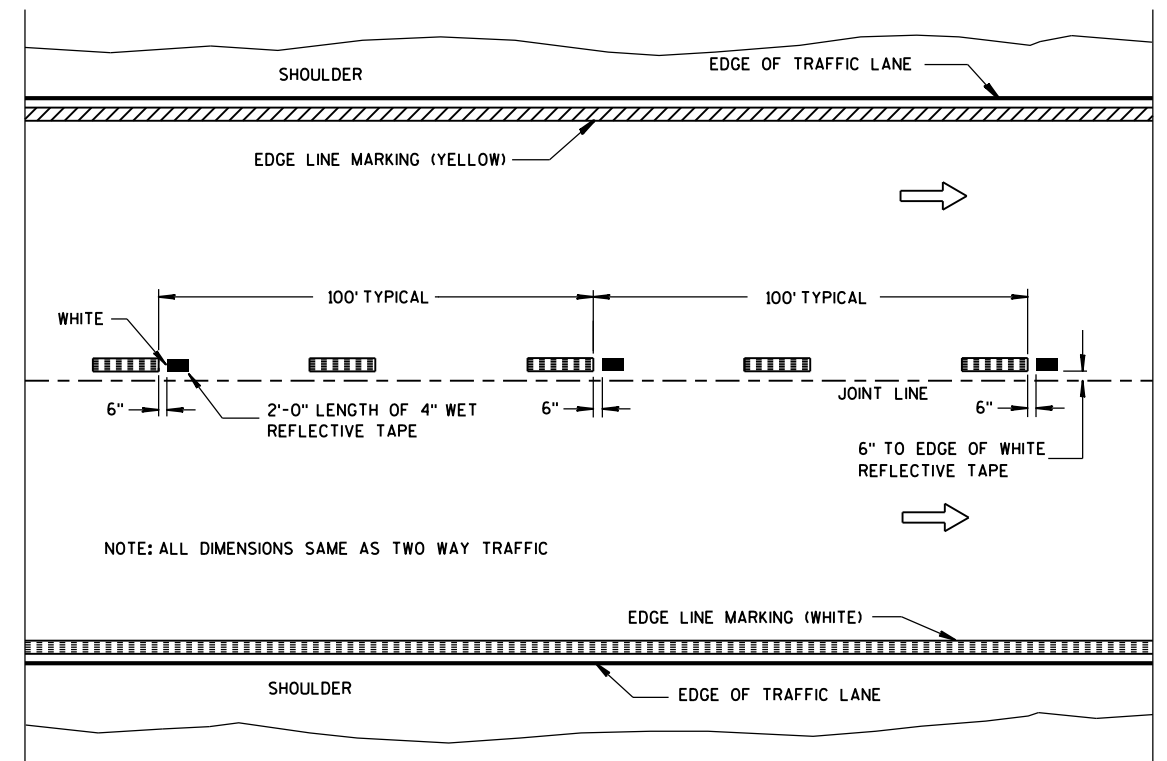
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

- 1 HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
- 2 NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
- 3 NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.
- 4 CONCRETE ONLY.

NOTE

ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

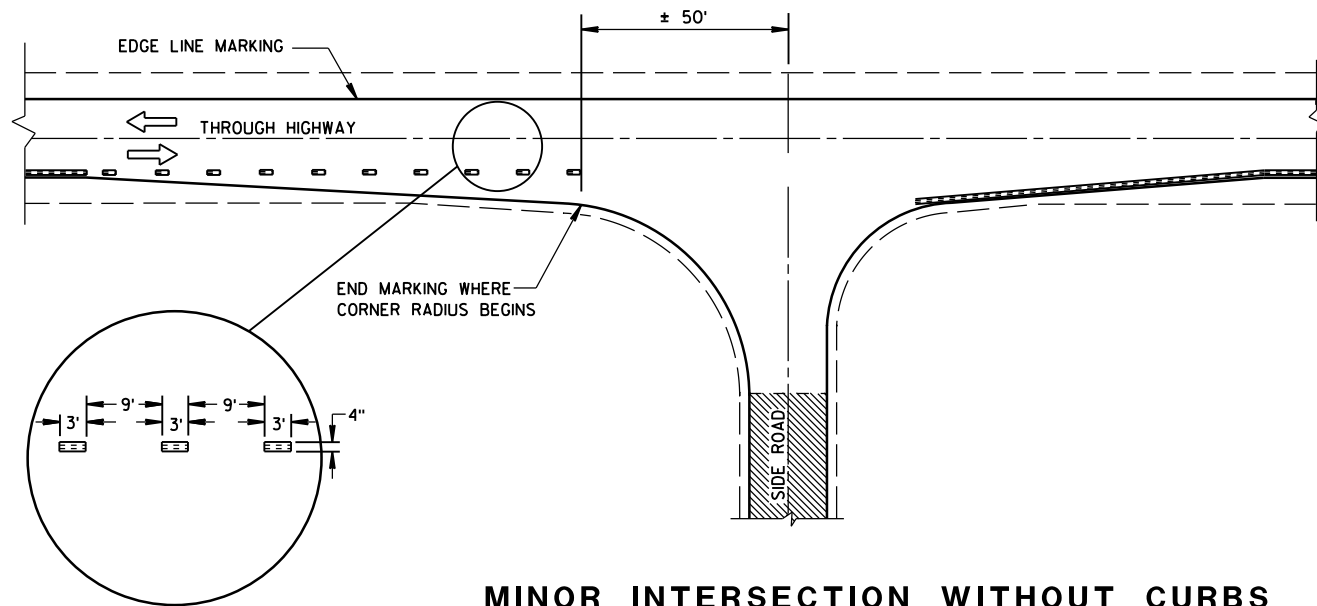
LEGEND

- "T" MARKING
- POST MOUNTED SIGN

PAVEMENT MARKING
(MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

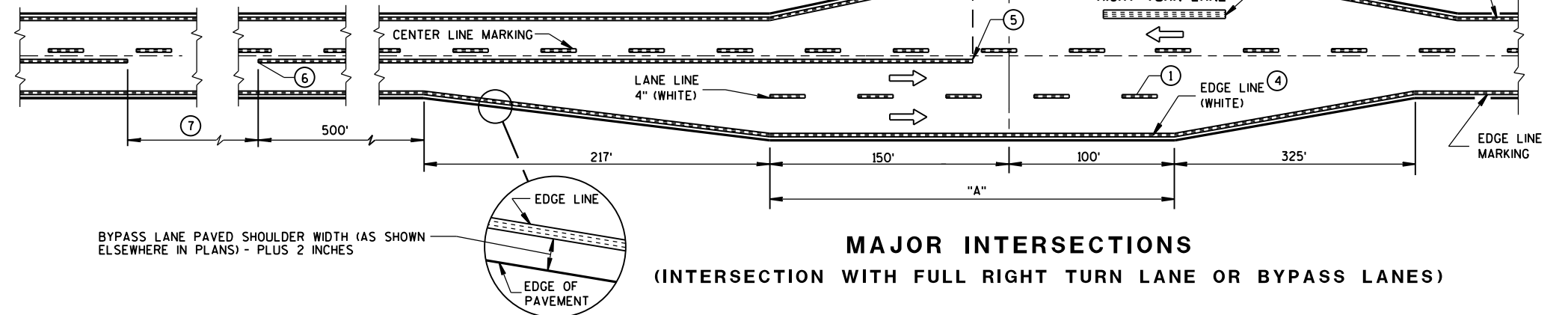
APPROVED
5-13-2013 /S/ Travis Feltes
DATE STATE TRAFFIC ENGINEER
FHWA



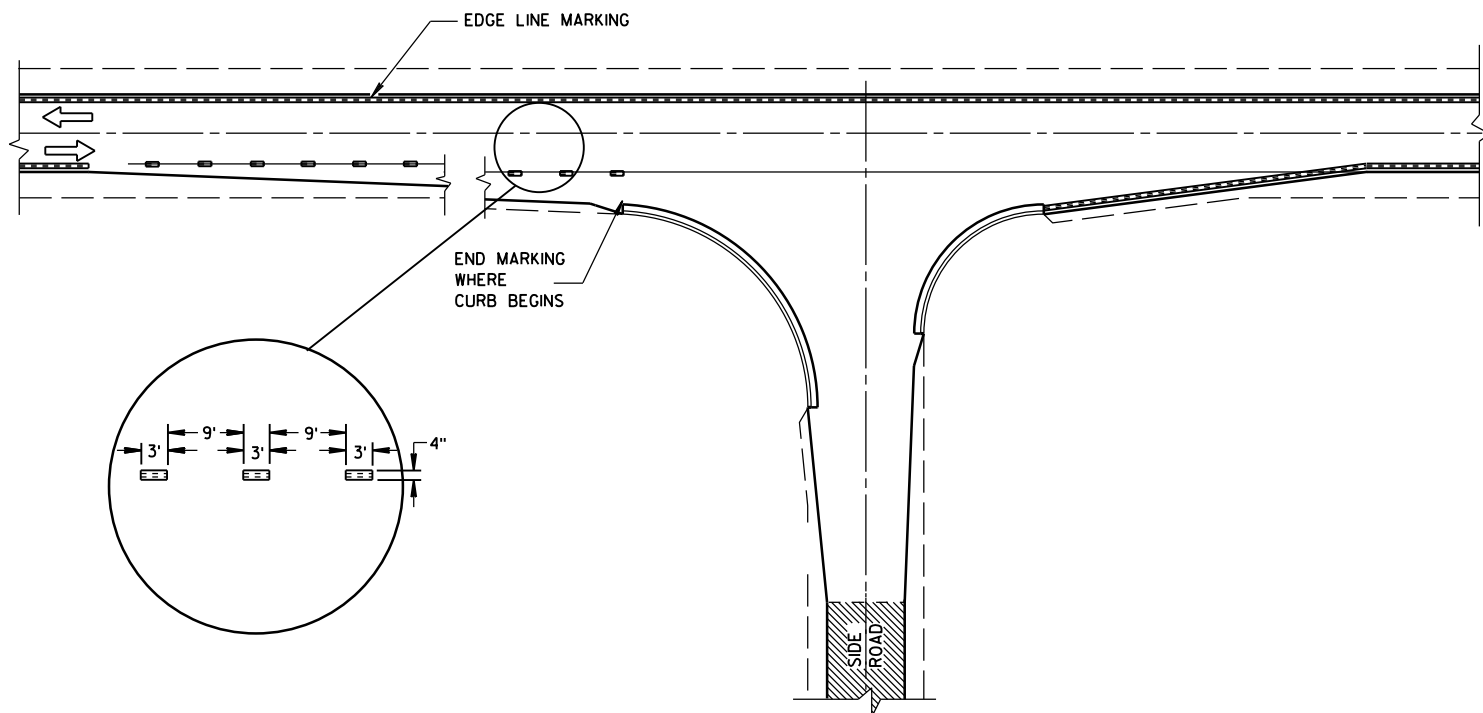
MINOR INTERSECTION WITHOUT CURBS

⑦

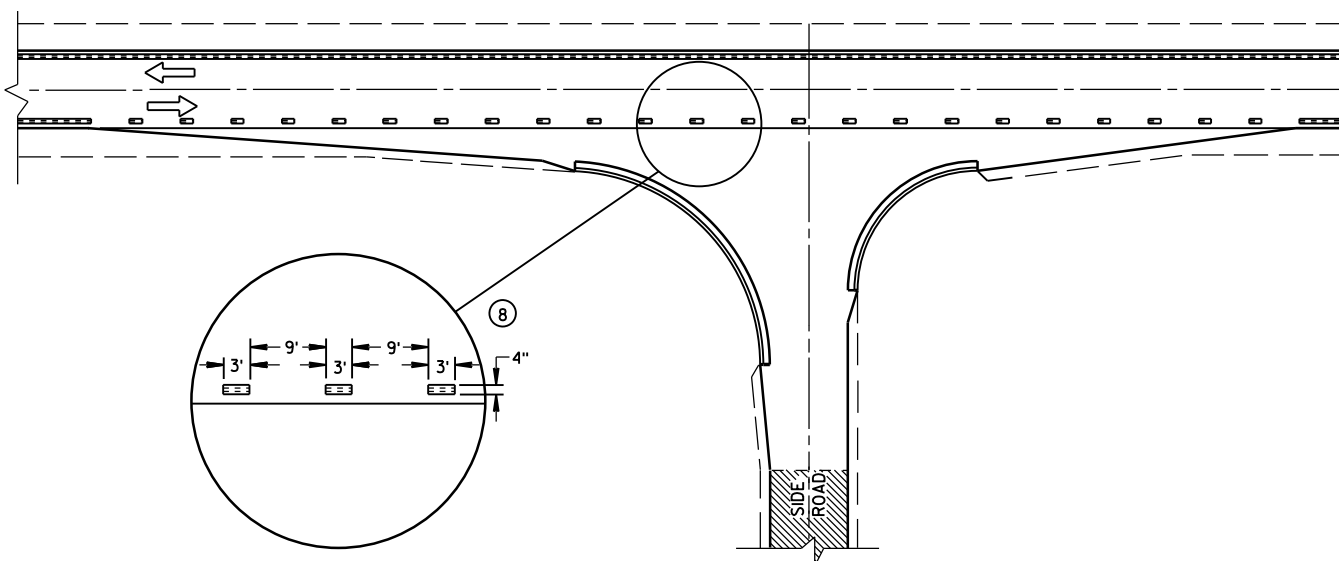
POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792



MAJOR INTERSECTIONS
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)



MINOR INTERSECTION WITH CURBS
(TYPICAL MARKING)



MINOR INTERSECTION WITH CURBS
③ (FOR SPECIAL CONDITIONS AS SPECIFIED)

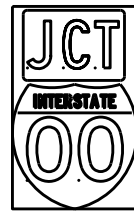
GENERAL NOTES

- EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.
- ① WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
 - ② WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
 - ③ ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE CONTRACT. TYPICAL SITUATIONS WHERE THIS MARKING MAY BE REQUIRED ARE WHERE THE INTERSECTION IS ON A SHARP HORIZONTAL CURVE OR CREST VERTICAL CURVE IN AN UNLIGHTED AREA SUCH THAT THE EDGE LINE MAY BE MISLEADING TO THE MOTORIST OR DISAPPEAR FROM SIGHT.
 - ④ THE EDGE LINE IN THE TAPER AREAS OF THE BYPASS LANE AND THE BYPASS LANE SHALL BE LOCATED 1-FOOT FROM EDGE OF PAVEMENT TO THE OUTSIDE EDGE OF EDGE LINE.
 - ⑤ BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.
 - ⑥ BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.
 - ⑦ IF THE DISTANCE BETWEEN 2 SUCCESSIVE NO-PASSING ZONES IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES, CONNECT THE 2 ZONES.
 - ⑧ 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL

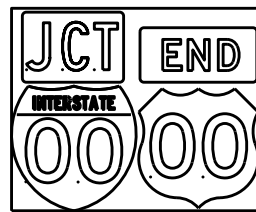
PAVEMENT MARKING
(INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

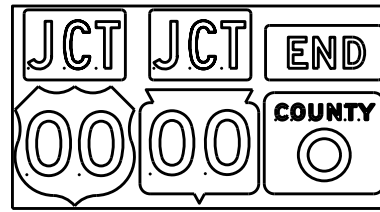
TYPICAL ASSEMBLIES



J1-1



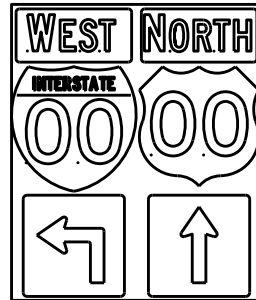
J1-2



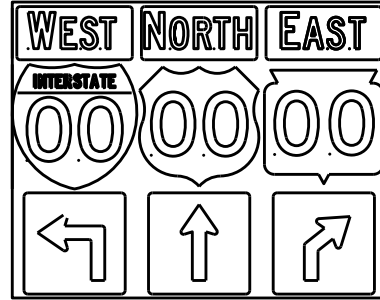
J1-3



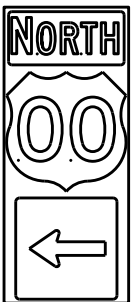
J2-1



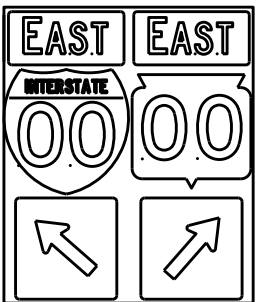
J2-2



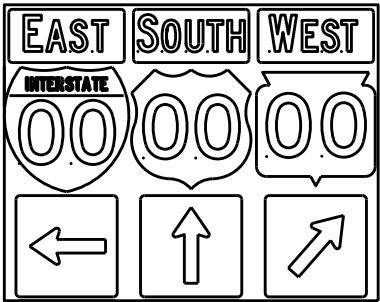
J2-3



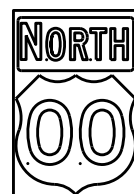
J3-1



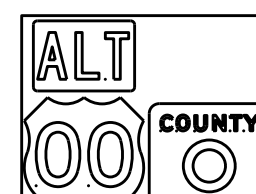
J3-2



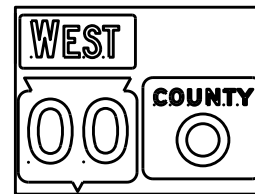
J3-3



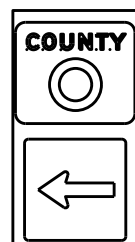
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1



J23-1

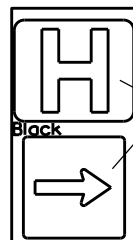


J22-1



JV

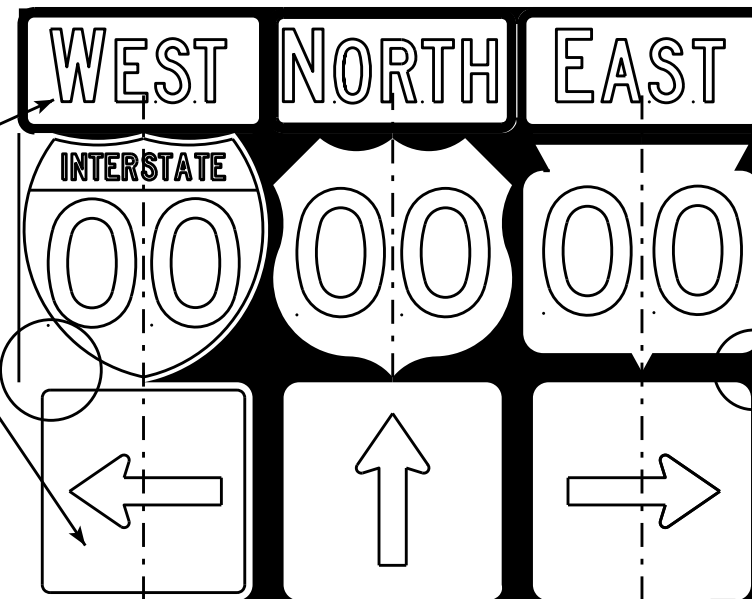
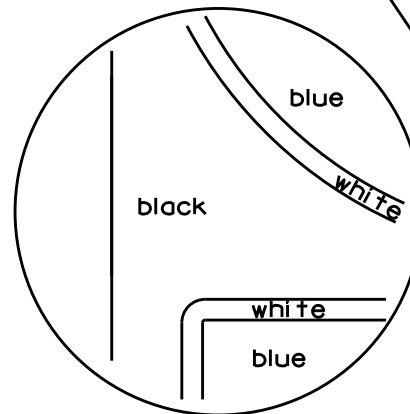
(Typical Vertical J-Assembly
See Note 10 and 11)



JH-1

Blue Background

[blue background
with interstate]



[black background]

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 2/06/14 PLATE NO. A2-1S.8

NOTES

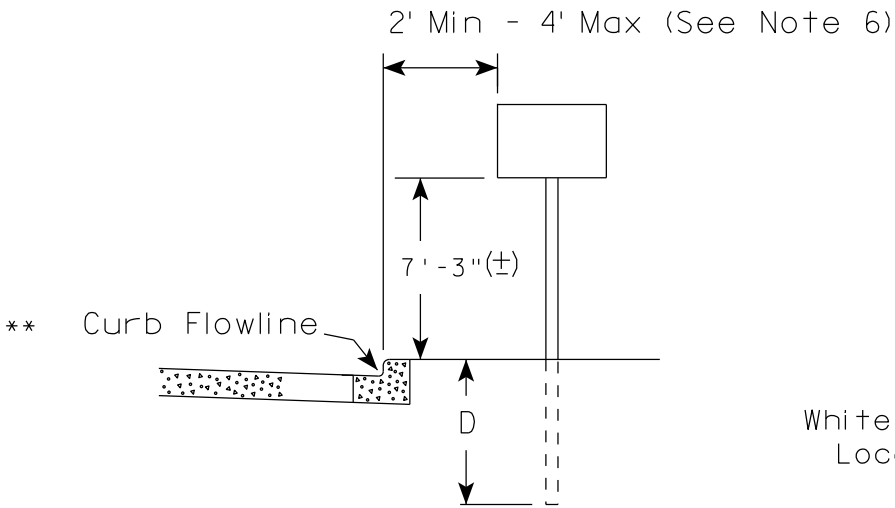
- Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - Black Non-reflective
Message - see Note 5
- Message Series - See Note 5
- Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
- The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
- Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
- Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
- Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
- Route assemblies that have 36 inch shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
- All Vertical J Assemblies are given a Sign Code of JV
- For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

PROJECT NO:

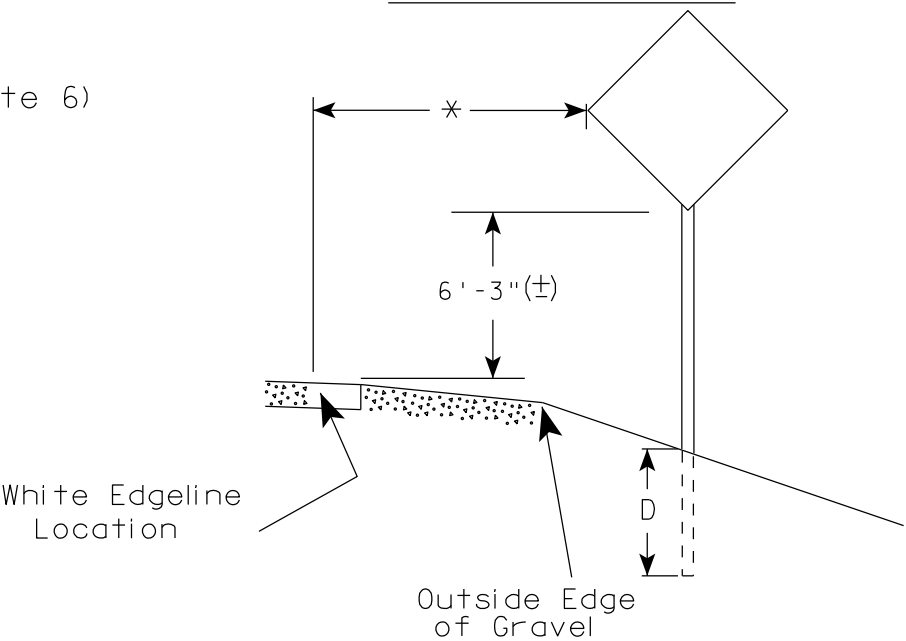
SHEET NO:

E

URBAN AREA



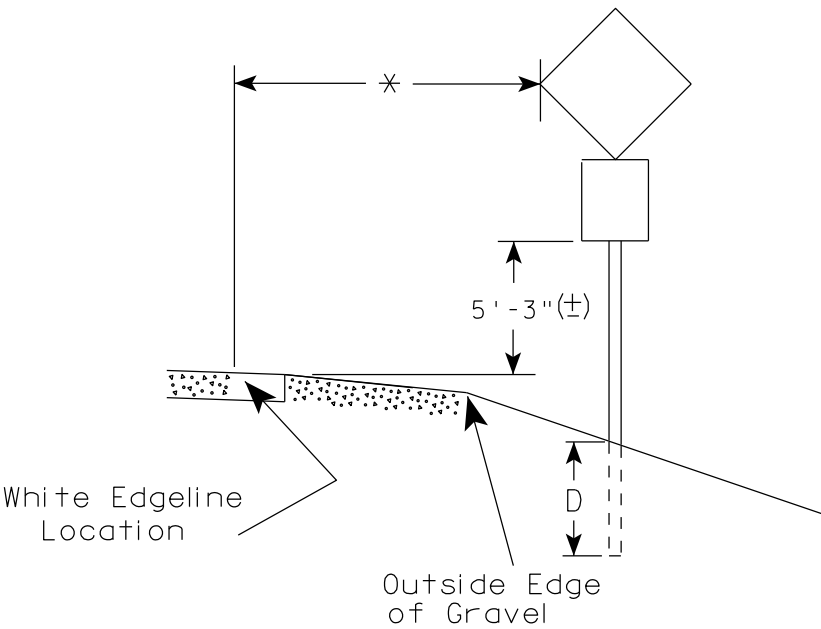
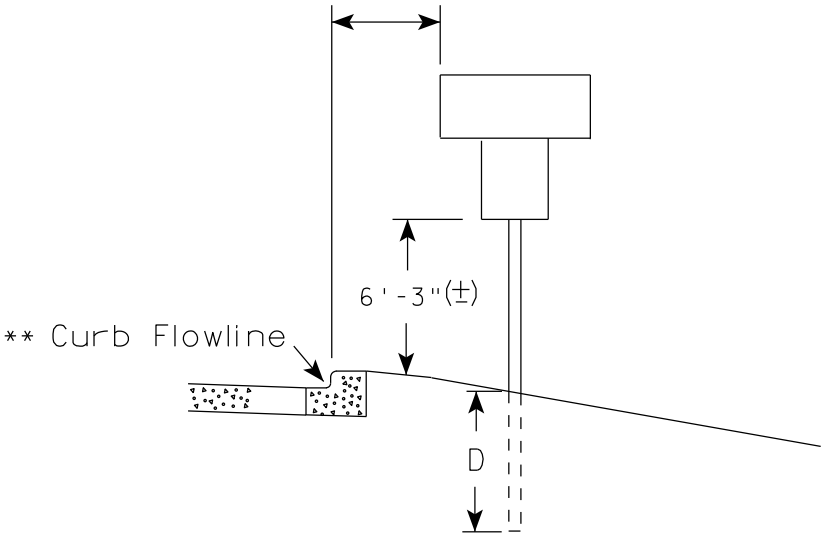
RURAL AREA (See Note 2)



GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

2' Min - 4' Max (See Note 6)



POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

×× The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

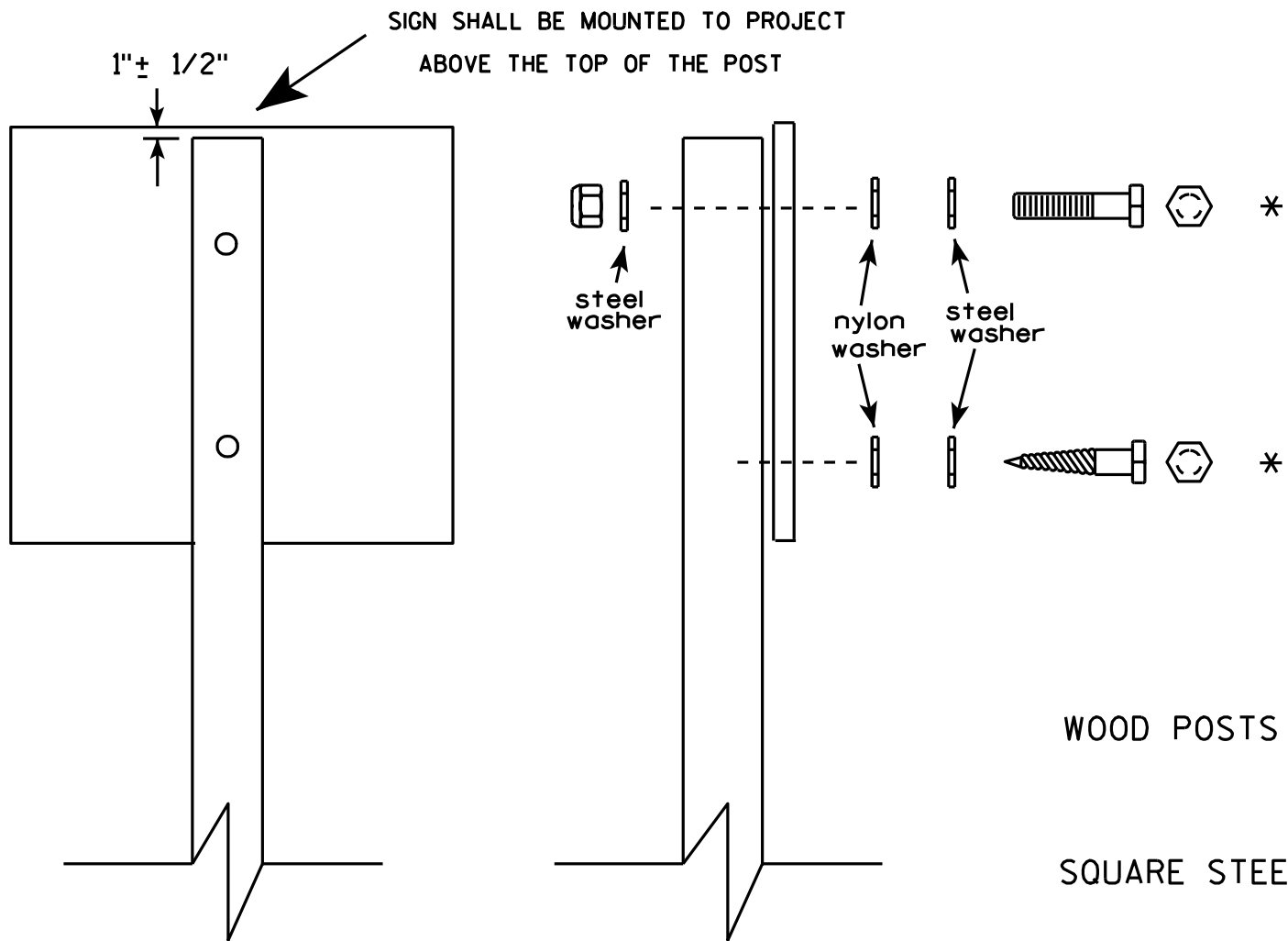
* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-3.20

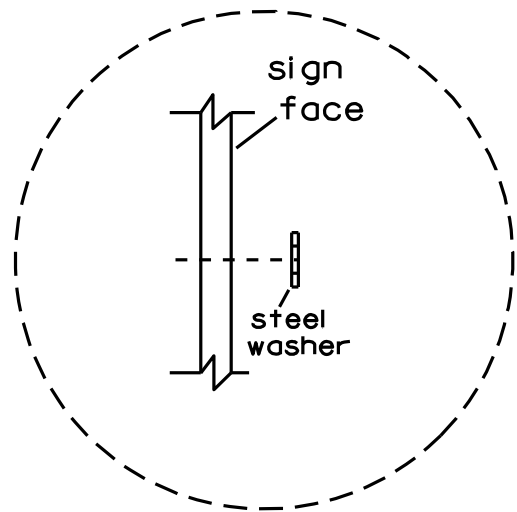


Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

- a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
- b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

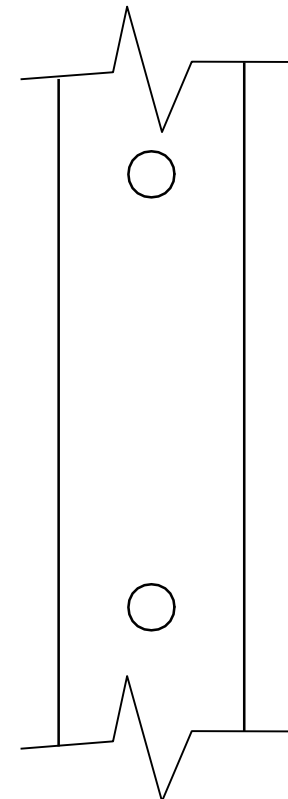
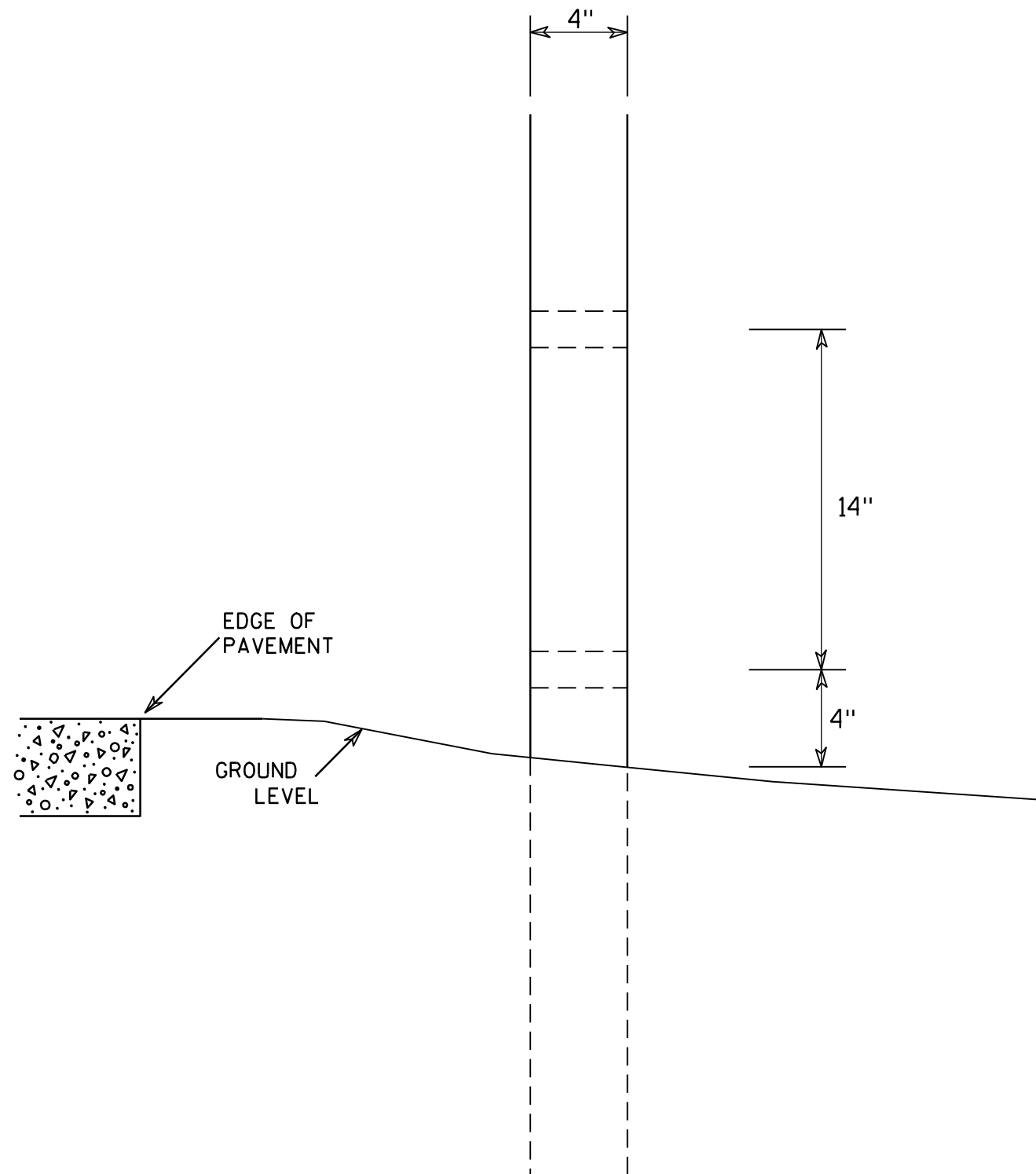
- WOOD POSTS (4" x 4" or 4" x 6")
LAG SCREWS - 3/8" X 3"
MACHINE BOLTS - 5/16" X 6-1/2" or 7" Length w/ nuts
- SQUARE STEEL POSTS (2" x 2")
MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts
RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH
- WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON for all Type H signs.



Washer Placement when Sign Has Other Than Type H or Type F Face

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 3/23/10	PLATE NO. A4-8.7



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Chester J. Spang
for State Traffic Engineer

DATE 3/27/97

PLATE NO. A4-11.2

PROJECT NO:

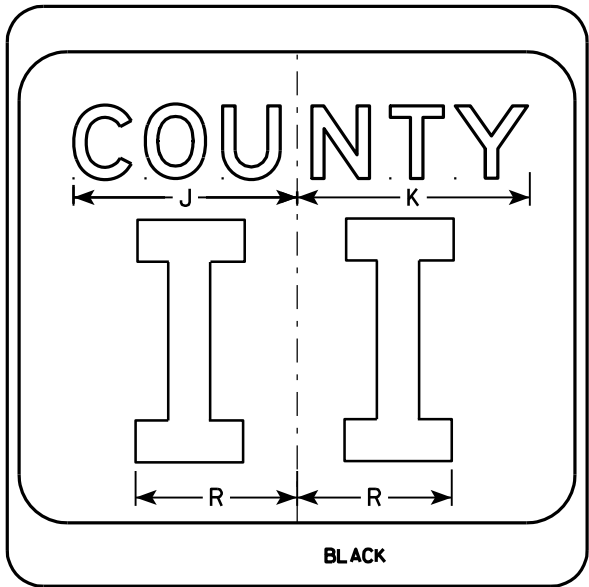
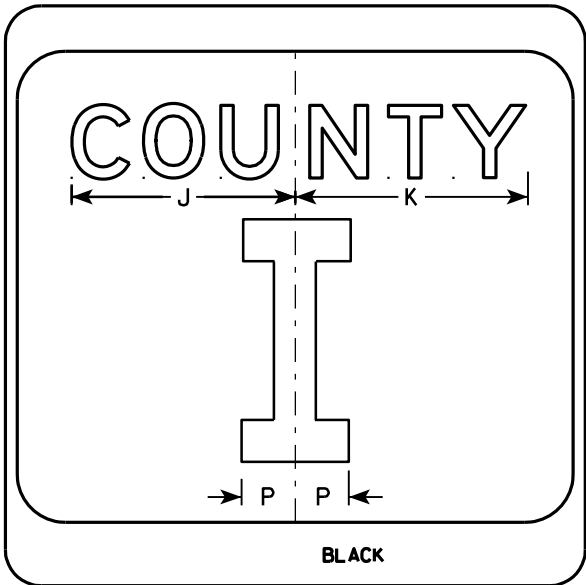
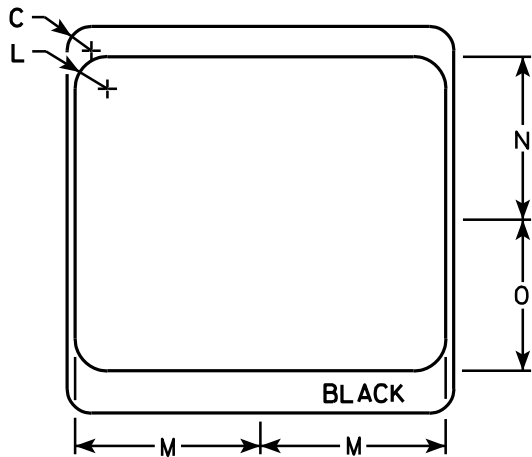
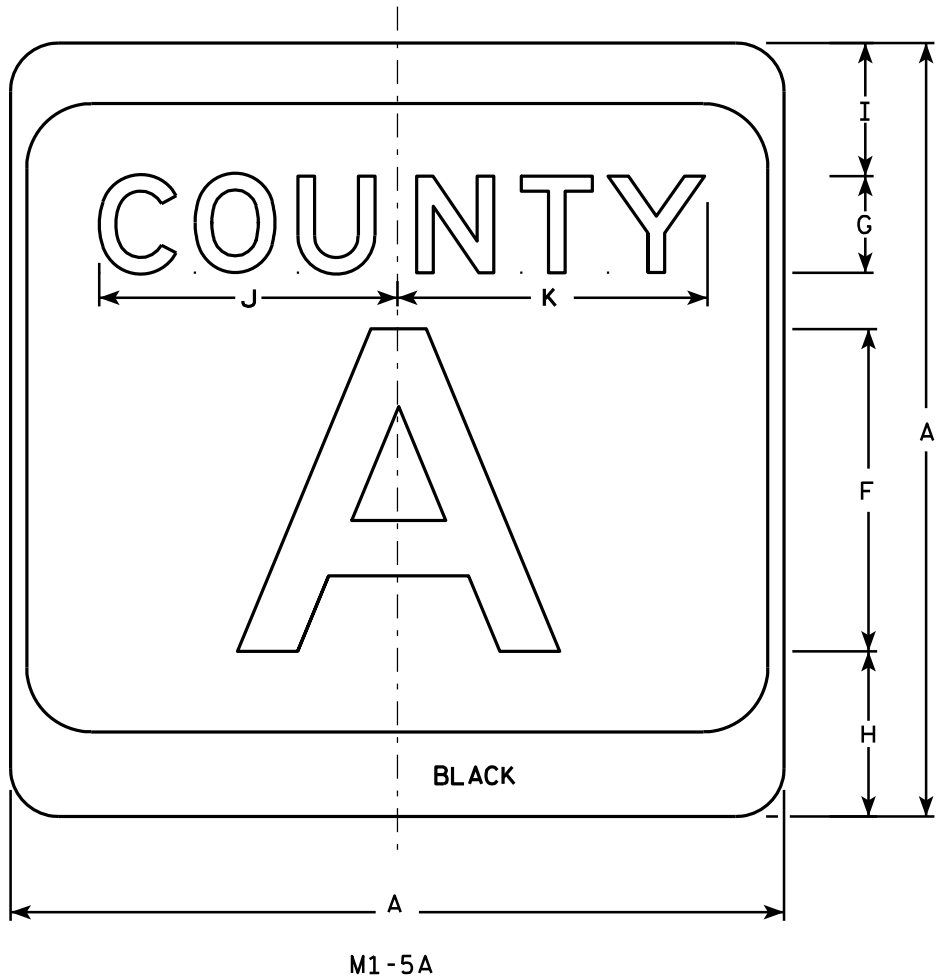
HWY:

COUNTY:

SHEET NO:

E

7



NOTES

- Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - White & Black - See Note 7
Message - Black
- Message Series - see Note 5
- Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- Message Series E for 1 letter.
Message Series D for 2 letters unless message is too big then Series C.
Message Series C for 3 letters unless message is too big then Series B.
- Substitute appropriate letters & optically center to achieve proper balance.
- Permanent Signs
Background - Type H Reflective
Detour or temporary Signs
Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

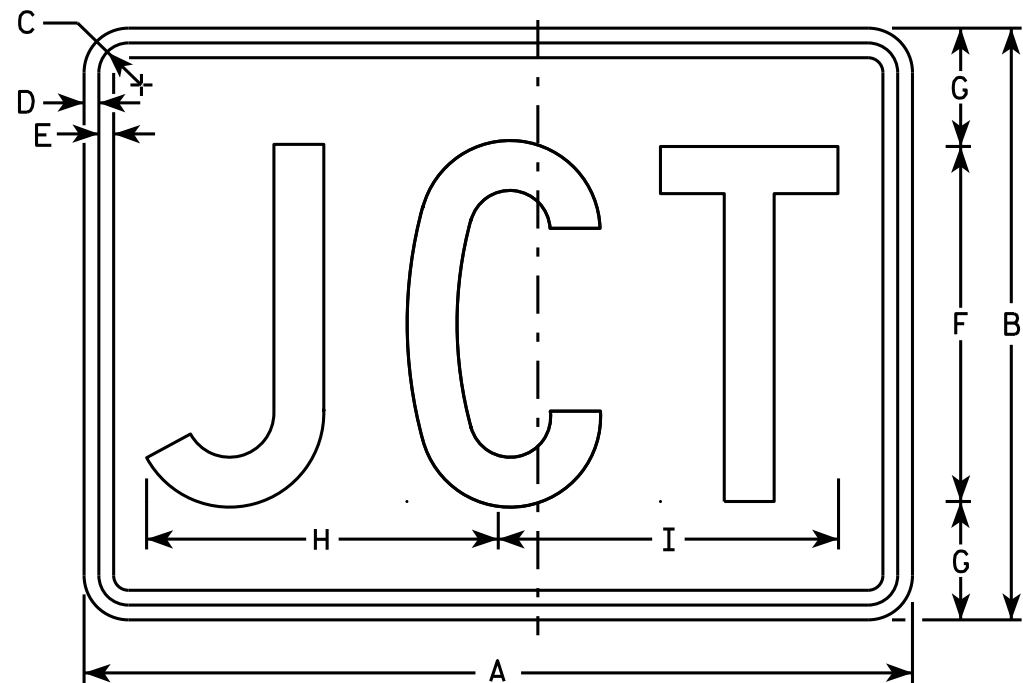
E

CTH MARKER
M1-5A FOR ASSEMBLIES

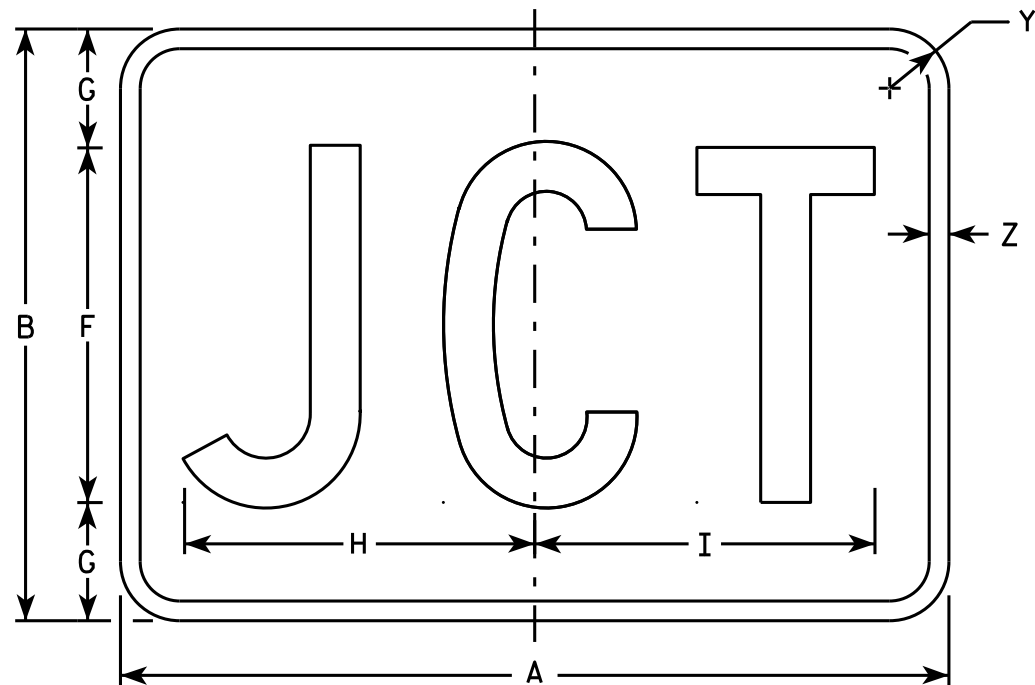
WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

1. Sign is Type II - Type H
2. Color:
Background - See note 5
Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M2-1 Background - White
Message - Black
MB2-1 Background - Blue
Message - White
MK2-1 Background - Green
Message - White
MM2-1 Background - White
Message - Green
MN2-1 Background - Brown
Message - White
MP2-1 Background - White
Message - Blue
MR2-1 Background - Brown
Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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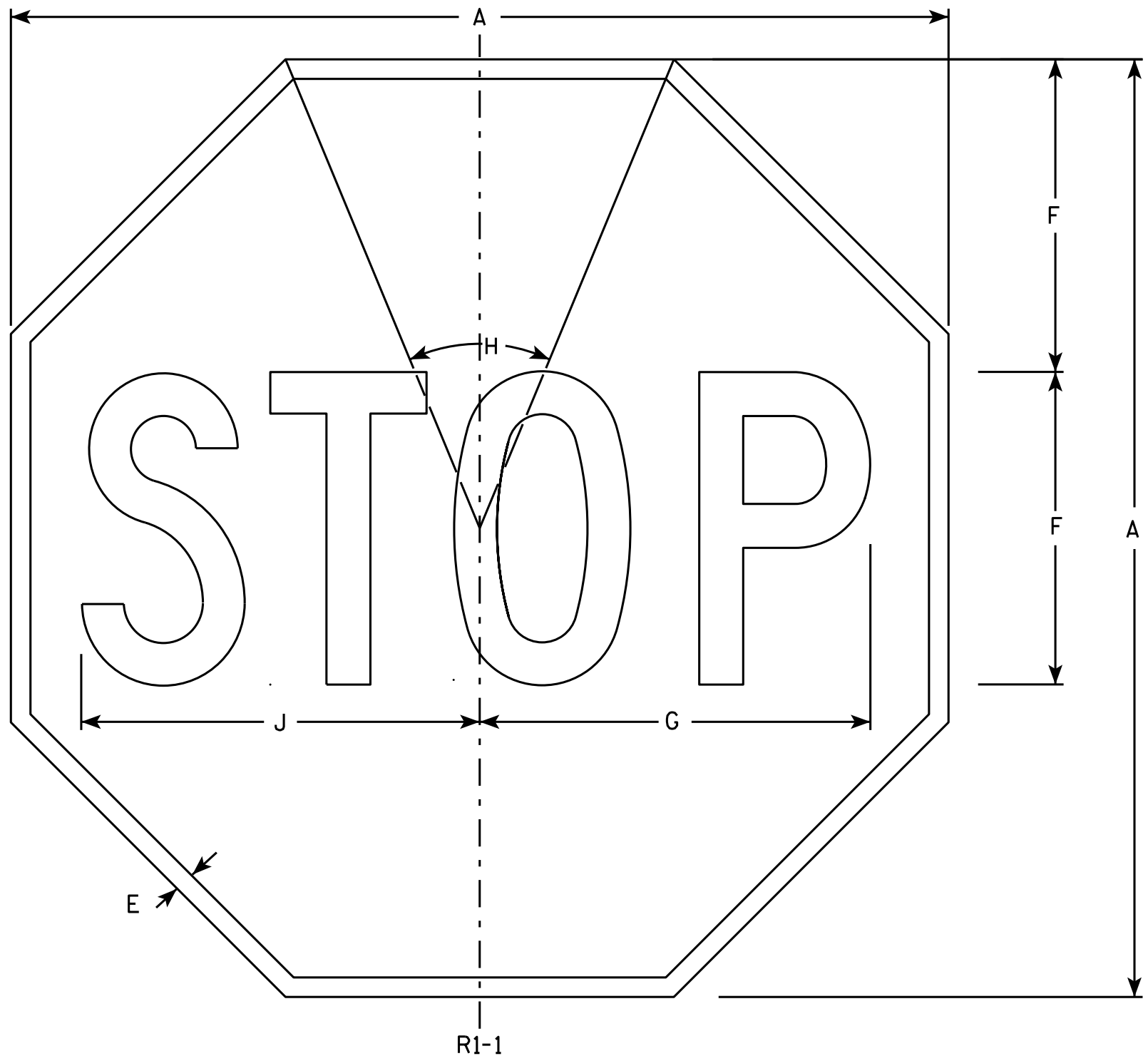
STANDARD SIGN

M2 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Raush*
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M2-1.12



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Red
Message - White
3. Message Series - C

R1-1

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.12

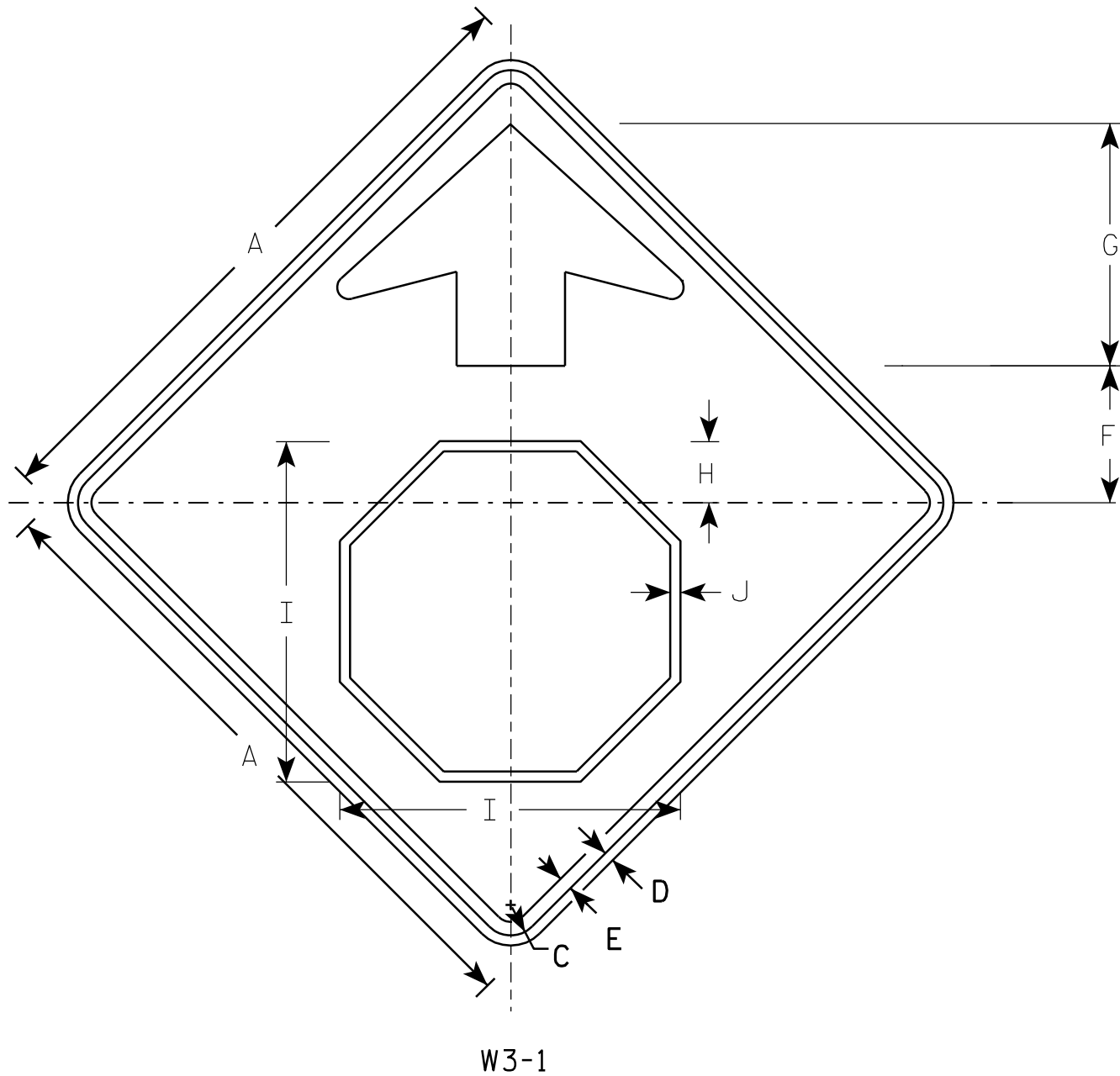
PROJECT NO:

HWY:

COUNTY:

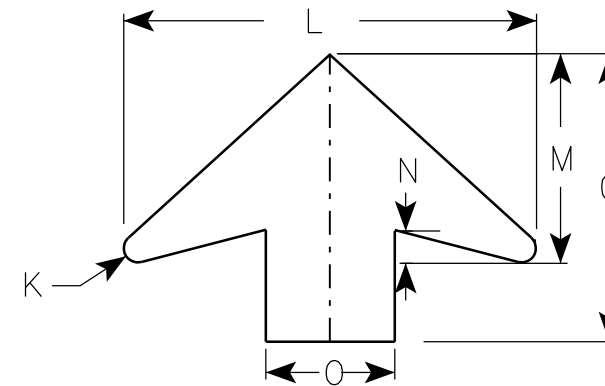
SHEET NO:

E



NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - YELLOW
Arrow & Border - BLACK
Stop Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	2 7/8	15 3/4	1/2	1/2	16	8	1 1/4	5												6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0

PROJECT NO:

STANDARD SIGN
W3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 6/7/10 PLATE NO. W3-1.12

SHEET NO:

E

EARTHWORK DATA - CTH D							
STATION	AREA (SF)		INCR. VOL (CY)		CUMULATIVE VOL (CY)		MASS ORDINATE
	CUT	FILL	CUT	FILL	CUT	EXP. FILL	
					1.00	1.30	
104+50.00	71.47	0.00	0.00	0.00	0.00	0.00	0.00
105+00.00	346.51	0.00	387.02	0.00	387.02	0.00	387.02
105+79.00	334.80	0.00	996.73	0.00	1383.75	0.00	1383.75
106+00.00	256.93	0.00	230.12	0.00	1613.87	0.00	1613.87
107+00.00	457.22	0.00	1322.50	0.00	2936.37	0.00	2936.37
107+89.00	650.19	0.00	1825.18	0.00	4761.54	0.00	4761.54
108+00.00	612.93	0.00	257.30	0.00	5018.85	0.00	5018.85
109+00.00	644.78	0.00	2329.09	0.00	7347.94	0.00	7347.94
110+00.00	467.70	0.00	2060.15	0.00	9408.09	0.00	9408.09
111+00.00	40.37	48.53	940.87	89.87	10348.96	116.83	10259.09
112+00.00	0.00	388.38	74.76	809.09	10423.72	1168.65	9524.75
113+00.00	0.00	396.81	0.00	1454.06	10423.72	3058.92	8070.70
114+00.00	27.97	215.39	51.80	1133.70	10475.51	4532.74	6988.79
115+00.00	423.24	0.00	835.57	398.87	11311.09	5051.27	7425.49
116+00.00	58.43	0.00	891.98	0.00	12203.07	5051.27	8317.47
116+21.00	27.03	30.62	33.23	11.91	12236.30	5066.75	8338.80
117+00.00	18.23	42.85	66.21	107.48	12302.52	5206.48	8297.53
118+00.00	0.00	242.36	33.76	528.17	12336.27	5893.10	7803.12
119+00.00	71.86	123.72	133.07	677.93	12469.35	6774.40	7258.27
119+75.00	125.72	1.71	274.42	174.21	12743.77	7000.87	7358.48
120+00.00	174.84	0.00	139.15	0.79	12882.91	7001.90	7496.84
120+50.00	184.88	4.62	333.07	4.28	13215.99	7007.46	7825.63
121+00.00	97.31	1.71	261.29	5.86	13477.27	7015.08	8081.06
121+20.00	34.46	15.28	48.80	6.29	13526.08	7023.26	8123.57
122+00.00	40.44	92.21	110.96	159.24	13637.04	7230.28	8075.29
122+32.00	0.00	90.53	23.96	108.29	13661.01	7371.06	7990.96
123+00.00	0.00	125.74	0.00	272.34	13661.01	7725.10	7718.62
124+00.00	44.03	91.26	81.54	401.85	13742.54	8247.51	7398.31
125+00.00	20.31	30.13	119.15	224.80	13861.69	8539.74	7292.66
126+00.00	116.39	4.74	253.15	64.57	14114.84	8623.69	7481.23
127+00.00	268.17	29.53	712.15	63.46	14826.99	8706.19	8129.92
128+00.00	244.13	18.94	948.70	89.76	15775.69	8822.88	8988.86
129+00.00	46.35	11.16	537.93	55.74	16313.62	8895.34	9471.05
130+00.00	1.23	88.39	88.11	184.35	16401.73	9135.00	9374.81
131+00.00	0.00	145.88	2.28	433.83	16404.01	9698.98	8943.25
132+00.00	0.00	104.81	0.00	464.24	16404.01	10302.49	8479.01
133+00.00	16.91	51.84	31.31	290.09	16435.32	10679.61	8220.23
133+16.00	35.24	31.82	15.45	24.79	16450.77	10711.84	8210.90
134+00.00	13.85	69.47	76.36	157.56	16527.13	10916.67	8129.70
135+00.00	6.57	71.69	37.81	261.41	16564.95	11256.50	7906.10

EARTHWORK DATA - CTH D							
STATION	AREA (SF)		INCR. VOL (CY)		CUMULATIVE VOL (CY)		MASS ORDINATE
	CUT	FILL	CUT	FILL	CUT	EXP. FILL	
					1.00	1.30	
136+00.00	1.10	73.60	14.20	269.06	16579.15	11606.27	7651.25
137+00.00	22.18	50.19	43.11	229.24	16622.26	11904.28	7465.12
138+00.00	30.16	39.16	96.93	165.46	16719.19	12119.39	7396.59
139+00.00	14.05	36.60	81.87	140.30	16801.06	12301.77	7338.16
139+19.00	20.05	39.16	12.00	26.66	16813.06	12336.42	7323.50
139+46.00	39.95	40.51	30.00	39.84	16843.06	12388.21	7313.67
140+00.00	5.94	21.77	45.89	62.28	16888.95	12469.17	7297.28
141+00.00	159.88	44.97	307.07	123.59	17196.02	12629.84	7480.76
142+00.00	48.57	106.59	386.02	280.67	17582.04	12994.71	7586.11
143+00.00	33.51	101.19	152.00	384.78	17734.04	13494.92	7353.33
144+00.00	136.84	72.71	315.46	322.04	18049.50	13913.57	7346.76
144+88.00	87.43	51.70	365.48	202.74	18414.98	14177.13	7509.49
145+00.00	108.60	43.90	43.56	21.24	18458.54	14204.75	7531.81
146+00.00	70.85	49.59	332.31	173.13	18790.86	14429.82	7691.00
146+25.00	39.81	37.63	51.23	40.38	18842.09	14482.31	7701.85
147+00.00	22.46	28.51	86.49	91.86	18928.58	14601.73	7696.47
148+00.00	0.00	71.80	41.59	185.76	18970.17	14843.22	7552.31
149+00.00	0.00	82.59	0.00	285.91	18970.17	15214.90	7266.40
150+00.00	0.00	106.72	0.00	350.57	18970.17	15670.65	6915.83
151+00.00	0.00	131.06	0.00	440.33	18970.17	16243.08	6475.49
152+00.00	0.00	139.07	0.00	500.24	18970.17	16893.39	5975.25
152+76.00	21.39	162.59	30.10	424.56	19000.27	17445.32	5580.80
153+00.00	45.92	168.94	29.92	147.35	19030.19	17636.87	5463.37
154+00.00	0.00	145.28	85.04	581.89	19115.23	18393.32	4966.51
155+00.00	0.00	144.18	0.00	536.04	19115.23	19090.17	4430.48
156+00.00	0.00	150.91	0.00	546.46	19115.23	19800.57	3884.01
157+00.00	0.00	154.93	0.00	566.37	19115.23	20536.86	3317.64
158+00.00	0.00	143.34	0.00	552.35	19115.23	21254.91	2765.29
159+00.00	149.08	118.24	276.07	484.41	19391.30	21884.64	2556.96
159+12.00	162.79	96.31	69.30	47.68	19460.60	21946.62	2578.59
159+17.00	160.96	89.41	29.98	17.20	19490.58	21968.98	2591.37
159+34.00	146.28	79.10	96.72	53.05	19587.30	22037.94	2635.04
160+00.00	0.00	140.36	178.79	268.23	19766.09	22386.64	2545.60
161+00.00	0.00	158.30	0.00	553.07	19766.09	23105.64	1992.52
162+00.00	0.00	130.84	0.00	535.44	19766.09	23801.72	1457.08
163+00.00	0.00	112.16	0.00	450.00	19766.09	24386.72	1007.08
164+00.00	0.00	124.48	0.00	438.22	19766.09	24956.40	568.86
165+00.00	0.00	117.46	0.00	448.04	19766.09	25538.85	120.82
166+00.00	0.00	84.96	0.00	374.85	19766.09	26026.16	-254.03
167+00.00	0.00	100.98	0.00	344.33	19766.09	26473.79	-598.37

EARTHWORK DATA - CTH D							
STATION	AREA (SF)		INCR. VOL (CY)		CUMULATIVE VOL (CY)		MASS ORDINATE
	CUT	FILL	CUT	FILL	CUT 1.00	EXP. FILL 1.30	

168+00.00	0.00	161.59	0.00	486.24	19766.09	27105.91	-1084.61
169+00.00	28.96	126.00	53.63	532.57	19819.72	27798.25	-1563.55
170+00.00	0.00	109.28	53.63	435.70	19873.35	28364.67	-1945.62
171+00.00	0.00	113.02	0.00	411.67	19873.35	28899.83	-2357.29
172+00.00	11.85	46.42	21.94	295.26	19895.30	29283.67	-2630.61
172+33.00	24.61	32.83	22.28	48.43	19917.58	29346.63	-2656.76
173+00.00	7.69	25.95	40.08	72.93	19957.65	29441.44	-2689.61
174+00.00	8.63	27.75	30.22	99.44	19987.87	29570.72	-2758.83
175+00.00	9.86	30.19	34.24	107.30	20022.12	29710.20	-2831.89
176+00.00	9.03	36.57	34.98	123.63	20057.10	29870.92	-2920.54
177+00.00	13.18	37.54	41.13	137.24	20098.23	30049.34	-3016.65
178+00.00	40.63	11.14	99.65	90.15	20197.87	30166.53	-3007.15
179+00.00	124.21	0.77	305.26	22.06	20503.13	30195.20	-2723.94
180+00.00	138.96	0.00	487.35	1.43	20990.49	30197.05	-2238.02
180+91.00	109.35	7.87	418.45	13.26	21408.93	30214.29	-1832.83
181+00.00	101.47	0.00	35.14	1.31	21444.07	30216.00	-1799.01
182+00.00	86.62	2.55	348.31	4.72	21792.39	30222.14	-1455.41
183+00.00	32.76	12.69	221.07	28.22	22013.46	30258.83	-1262.56
184+00.00	9.94	19.92	79.07	60.39	22092.53	30337.33	-1243.88
185+00.00	21.55	8.17	58.31	52.02	22150.85	30404.96	-1237.58
186+00.00	132.97	0.00	286.15	15.13	22437.00	30424.63	-966.56
186+11.00	139.07	2.11	55.42	0.43	22492.41	30425.18	-911.58
187+00.00	163.73	0.00	499.06	3.48	22991.47	30429.71	-415.99
188+00.00	143.18	0.00	568.35	0.00	23559.82	30429.71	152.36
188+24.00	126.72	0.09	119.96	0.04	23679.78	30429.76	272.27
189+00.00	113.78	0.00	338.48	0.13	24018.26	30429.92	610.63
189+76.00	151.94	0.00	373.98	0.00	24392.24	30429.92	984.60
190+00.00	75.77	3.08	101.20	1.37	24493.44	30431.70	1084.44
190+55.00	141.62	2.35	221.42	5.53	24714.86	30438.89	1300.32
191+00.00	159.18	0.00	250.67	1.96	24965.52	30441.44	1549.03
192+00.00	157.75	0.00	586.91	0.00	25552.43	30441.44	2135.94
192+58.00	165.72	0.00	347.43	0.00	25899.86	30441.44	2483.37
193+00.00	151.89	0.00	247.03	0.00	26146.89	30441.44	2730.40
193+89.00	77.54	1.10	378.13	1.81	26525.03	30443.79	3106.72
194+00.00	95.03	0.15	35.15	0.25	26560.18	30444.13	3141.62
195+00.00	32.53	32.85	236.22	61.11	26796.40	30523.57	3316.73
195+13.00	33.91	33.14	15.99	15.89	26812.40	30544.22	3316.84
196+00.00	24.48	38.88	94.07	116.03	26906.47	30695.06	3294.88
197+00.00	34.75	22.47	109.69	113.61	27016.15	30842.76	3290.96
198+00.00	80.14	15.94	212.76	71.13	27228.91	30935.23	3432.58

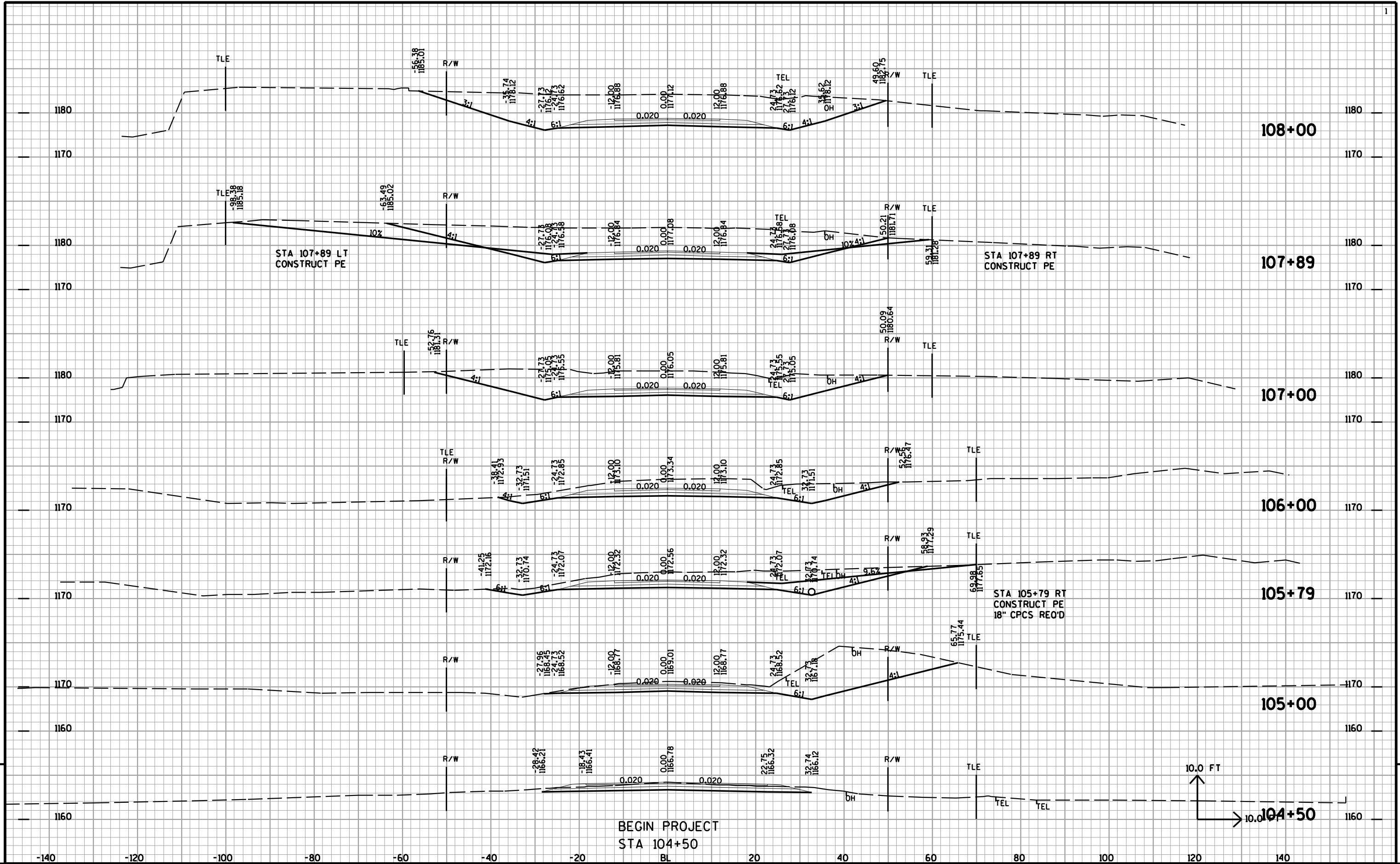
EARTHWORK DATA - CTH D							
STATION	AREA (SF)		INCR. VOL (CY)		CUMULATIVE VOL (CY)		MASS ORDINATE
	CUT	FILL	CUT	FILL	CUT 1.00	EXP. FILL 1.30	

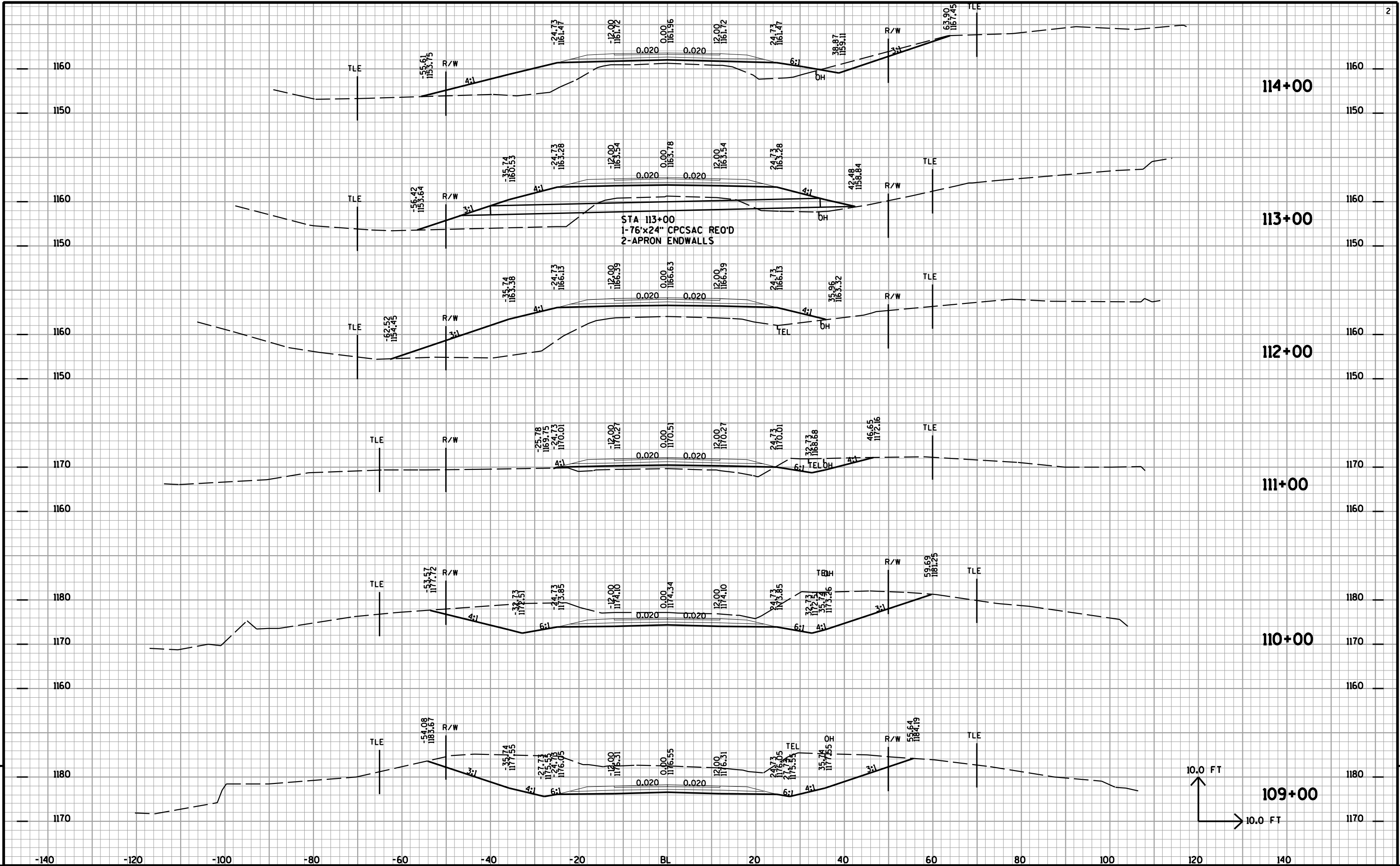
198+82.00	81.05	11.55	244.77	41.74	27473.68	30989.49	3635.61
199+00.00	54.62	6.35	45.22	5.97	27518.91	30997.25	3674.87
200+00.00	23.43	45.81	144.54	96.59	27663.44	31122.82	3722.81
201+00.00	13.96	47.18	69.24	172.20	27732.68	31346.69	3619.85
202+00.00	10.99	44.77	46.20	170.28	27778.89	31568.05	3495.77
203+00.00	10.84	32.34	40.43	142.80	27819.31	31753.68	3393.40
204+00.00	20.08	19.22	57.26	95.48	27876.57	31877.81	3355.18
205+00.00	37.05	14.87	105.80	63.13	27982.37	31959.88	3397.85
206+00.00	51.29	11.96	163.59	49.69	28145.96	32024.47	3511.76
207+00.00	49.38	13.69	186.43	47.50	28332.39	32086.22	3650.68
208+00.00	33.10	23.07	152.74	68.07	28485.13	32174.71	3735.35
208+91.00	32.28	31.63	110.18	92.18	28595.31	32294.55	3753.35
209+00.00	29.04	31.26	10.22	10.48	28605.53	32308.17	3753.09
210+00.00	21.76	30.32	94.07	114.04	28699.60	32456.42	3733.12
211+00.00	44.36	28.16	122.44	108.30	28822.04	32597.21	3747.27
212+00.00	30.48	19.25	138.59	87.80	28960.64	32711.34	3798.07
213+00.00	50.59	10.35	150.13	54.81	29110.77	32782.60	3893.38
214+00.00	46.43	12.48	179.67	42.28	29290.43	32837.56	4030.77
215+00.00	47.64	15.70	174.20	52.19	29464.64	32905.40	4152.79
216+00.00	32.60	20.88	148.59	67.74	29613.23	32993.47	4233.64
217+00.00	15.66	38.36	89.37	109.70	29702.60	33136.08	4213.31
218+00.00	14.67	35.80	56.17	137.33	29758.77	33314.61	4132.14
219+00.00	43.30	9.01	107.35	82.98	29866.12	33422.49	4156.51
219+36.00	66.37	24.44	73.11	22.30	29939.23	33451.48	4207.32
220+00.00	70.22	9.23	161.88	39.91	30101.12	33503.36	4329.30
221+00.00	96.11	14.39	308.02	43.74	30409.14	33560.22	4593.58
222+00.00	53.72	13.55	277.46	51.74	30686.60	33627.48	4819.30
223+00.00	30.39	13.82	155.76	50.69	30842.36	33693.37	4924.38
224+00.00	20.35	27.05	93.96	75.69	30936.32	33791.76	4942.66
224+40.00	25.53	25.23	33.99	38.73	30970.31	33842.11	4937.91
225+00.00	24.15	21.78	55.20	52.23	31025.51	33910.01	4940.88
226+00.00	33.49	12.95	106.74	64.31	31132.25	33993.62	4983.31
227+00.00	34.87	10.55	126.59	43.52	31258.84	34050.19	5066.38
228+00.00	32.75	11.50	125.22	40.83	31384.06	34103.28	5150.77
229+00.00	36.92	14.97	129.02	49.02	31513.08	34167.00	5230.77
230+00.00	47.46	16.77	156.26	58.78	31669.34	34243.41	5328.25
231+00.00	37.47	25.25	157.28	77.81	31826.62	34344.57	5407.71
232+00.00	67.58	13.62	194.54	71.98	32021.15	34438.15	5530.27
233+00.00	106.27	4.60	321.94	33.74	32343.10	34482.01	5818.47
233+35.00	112.56	2.76	141.83	4.77	32484.93	34488.21	5955.54

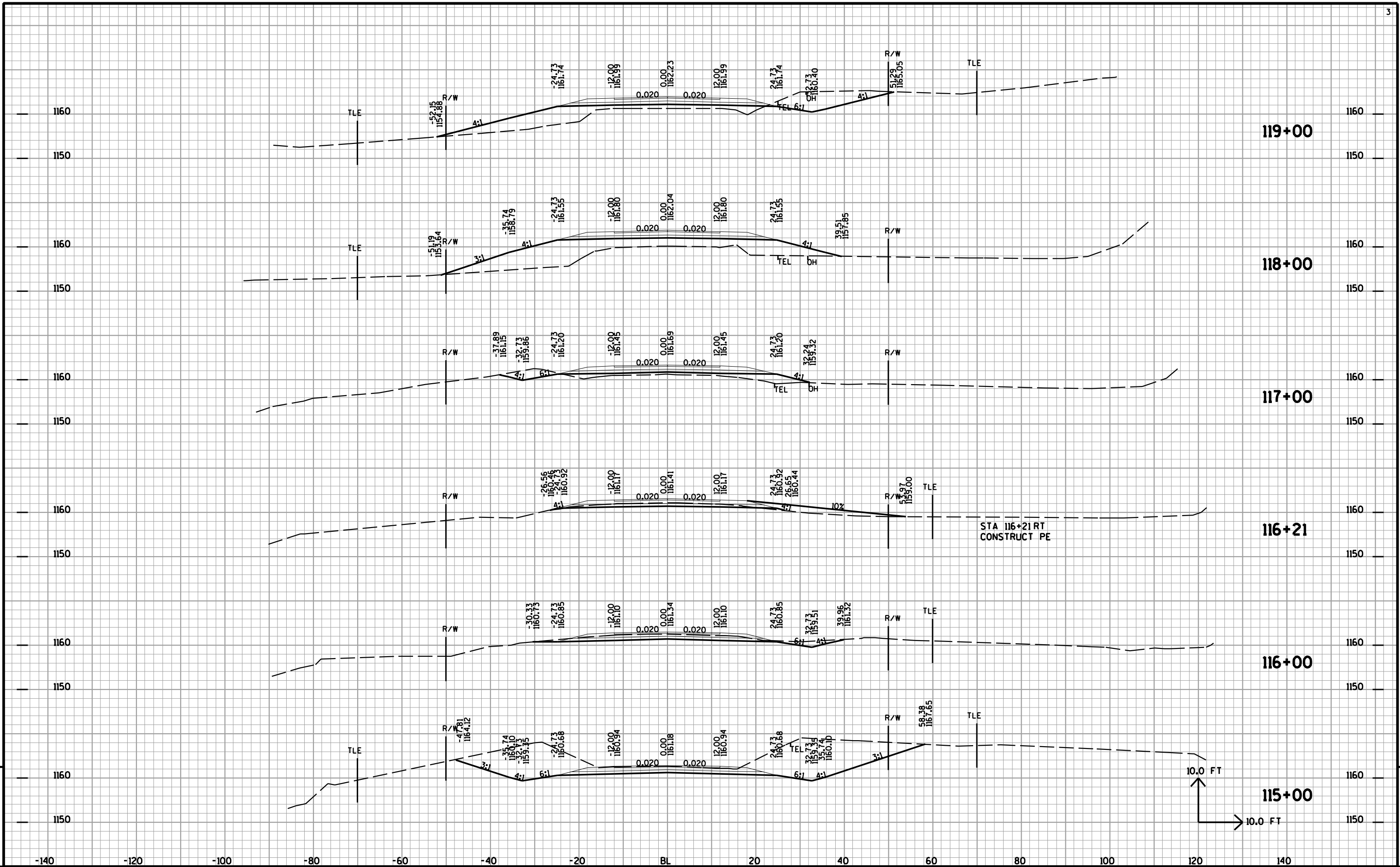
EARTHWORK DATA - CTH D							
STATION	AREA (SF)		INCR. VOL (CY)		CUMULATIVE VOL (CY)		MASS ORDINATE
	CUT	FILL	CUT	FILL	CUT	EXP. FILL	
					1.00	1.30	
233+73.00	85.62	12.75	139.46	10.91	32624.39	34502.40	6084.08
234+00.00	49.54	14.34	67.58	13.55	32691.97	34520.01	6138.12
235+00.00	31.42	35.73	149.93	92.72	32841.90	34640.55	6195.32
236+00.00	52.30	15.46	155.04	94.80	32996.94	34763.78	6255.56
237+00.00	102.59	7.51	286.83	42.54	33283.77	34819.08	6499.86
237+52.00	133.83	6.07	227.66	13.08	33511.43	34836.08	6714.45
238+00.00	56.31	18.03	169.01	21.42	33680.45	34863.93	6862.04
238+75.00	32.05	48.66	122.72	92.63	33803.17	34984.34	6892.13
239+00.00	20.64	59.26	24.39	49.96	33827.56	35049.30	6866.56
240+00.00	8.94	70.55	54.78	240.39	33882.34	35361.80	6680.95
240+48.00	11.87	70.47	18.50	125.35	33900.84	35524.76	6574.10
241+00.00	28.45	47.45	38.83	113.55	33939.66	35672.38	6499.37
241+40.00	75.98	13.29	77.36	44.99	34017.02	35730.87	6531.74
242+00.00	224.49	2.30	333.86	17.32	34350.87	35753.39	6848.27
243+00.00	250.82	0.00	880.20	4.26	35231.08	35758.92	7724.22
244+00.00	97.92	2.86	645.81	5.30	35876.89	35765.81	8364.73
244+51.00	82.81	8.30	170.69	10.54	36047.58	35779.51	8524.88
245+00.00	57.23	20.87	127.07	26.47	36174.66	35813.92	8625.49
246+00.00	17.71	68.28	138.78	165.09	36313.43	36028.54	8599.17
247+00.00	0.00	106.37	32.80	323.43	36346.23	36448.99	8308.54
248+00.00	0.00	74.91	0.00	335.70	36346.23	36885.41	7972.84
249+00.00	172.47	20.01	319.39	175.78	36665.62	37113.92	8116.45
250+00.00	264.70	1.75	809.57	40.30	37475.19	37166.30	8885.73
250+42.00	187.39	0.48	351.63	1.73	37826.82	37168.56	9235.62
251+00.00	53.91	9.96	259.17	11.21	38085.99	37183.14	9483.58
251+71.00	30.41	4.48	110.87	18.99	38196.86	37207.82	9575.46
251+79.00	34.77	22.19	9.66	3.95	38206.51	37212.96	9581.16
252+00.00	63.77	23.10	38.32	17.61	38244.84	37235.85	9601.87
253+00.00	145.55	4.20	387.63	50.56	38632.47	37301.57	9938.95
253+29.00	177.53	2.46	173.51	3.58	38805.97	37306.22	10108.88
254+00.00	156.24	0.36	438.85	3.71	39244.82	37311.04	10544.01
255+00.00	148.33	0.21	564.02	1.06	39808.84	37312.42	11106.98
256+00.00	129.13	0.50	513.81	1.31	40322.65	37314.13	11619.48
257+00.00	62.69	10.69	355.22	20.72	40677.87	37341.06	11953.98
257+30.00	60.06	18.42	68.19	16.17	40746.07	37362.09	12006.00
258+00.00	57.57	11.40	152.48	38.66	40898.55	37412.34	12119.83
259+00.00	48.68	14.86	196.76	48.63	41095.31	37475.56	12267.96
260+00.00	113.07	5.61	299.54	37.91	41394.85	37524.84	12529.59
261+00.00	188.62	2.89	558.69	15.74	41953.53	37545.30	13072.53
261+21.00	152.70	3.46	132.74	2.47	42086.27	37548.51	13202.80

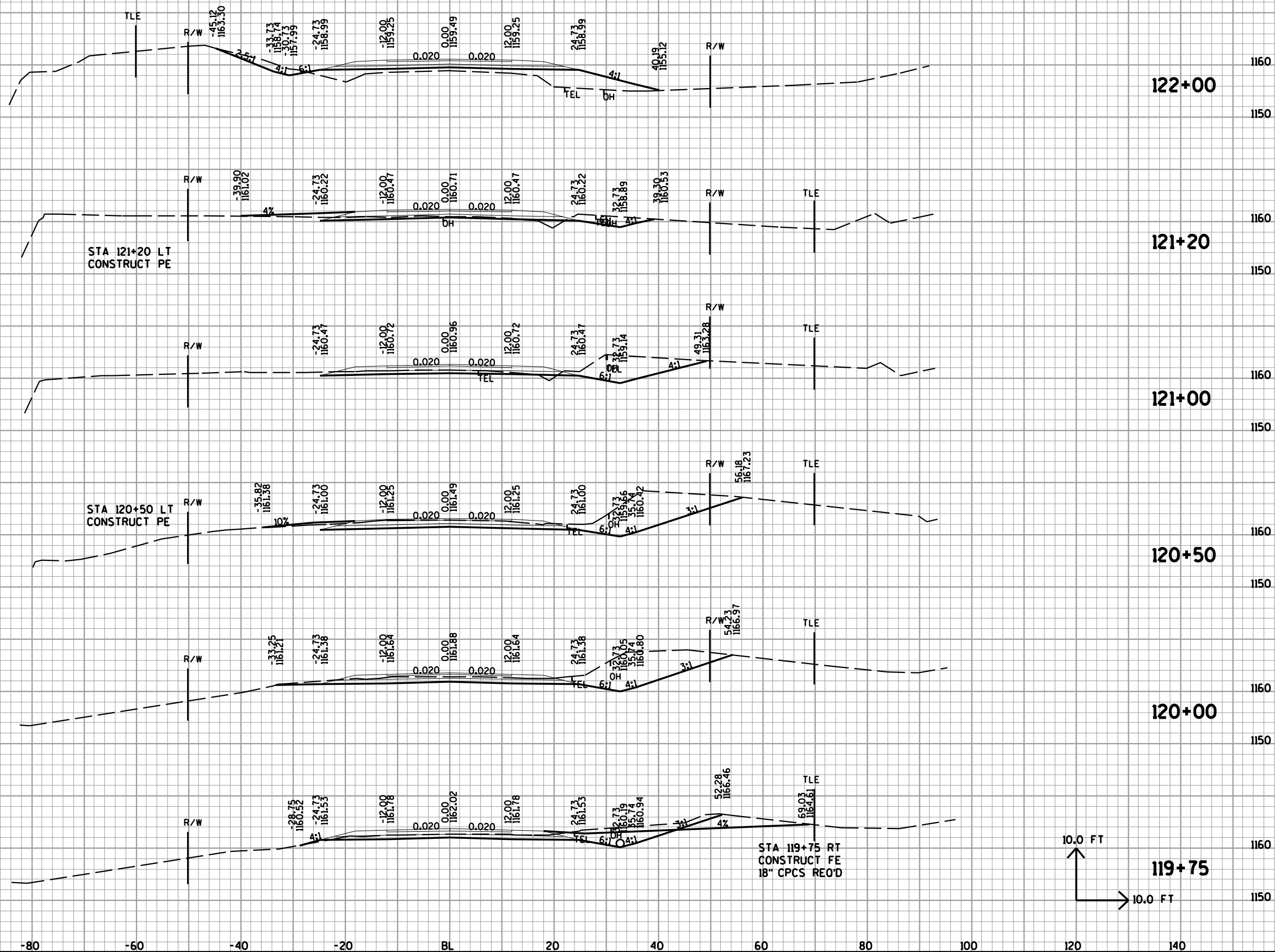
EARTHWORK DATA - CTH D							
STATION	AREA (SF)		INCR. VOL (CY)		CUMULATIVE VOL (CY)		MASS ORDINATE
	CUT	FILL	CUT	FILL	CUT	EXP. FILL	
					1.00	1.30	
262+00.00	121.00	2.50	400.41	8.72	42486.68	37559.85	13594.49
262+28.00	123.71	1.46	126.89	2.05	42613.57	37562.52	13719.32
262+62.00	114.65	4.50	150.08	3.75	42763.65	37567.39	13865.65
263+00.00	106.52	6.70	155.64	7.88	42919.28	37577.64	14013.41
264+00.00	0.00	0.00	197.26	12.41	43116.54	37593.77	14198.26

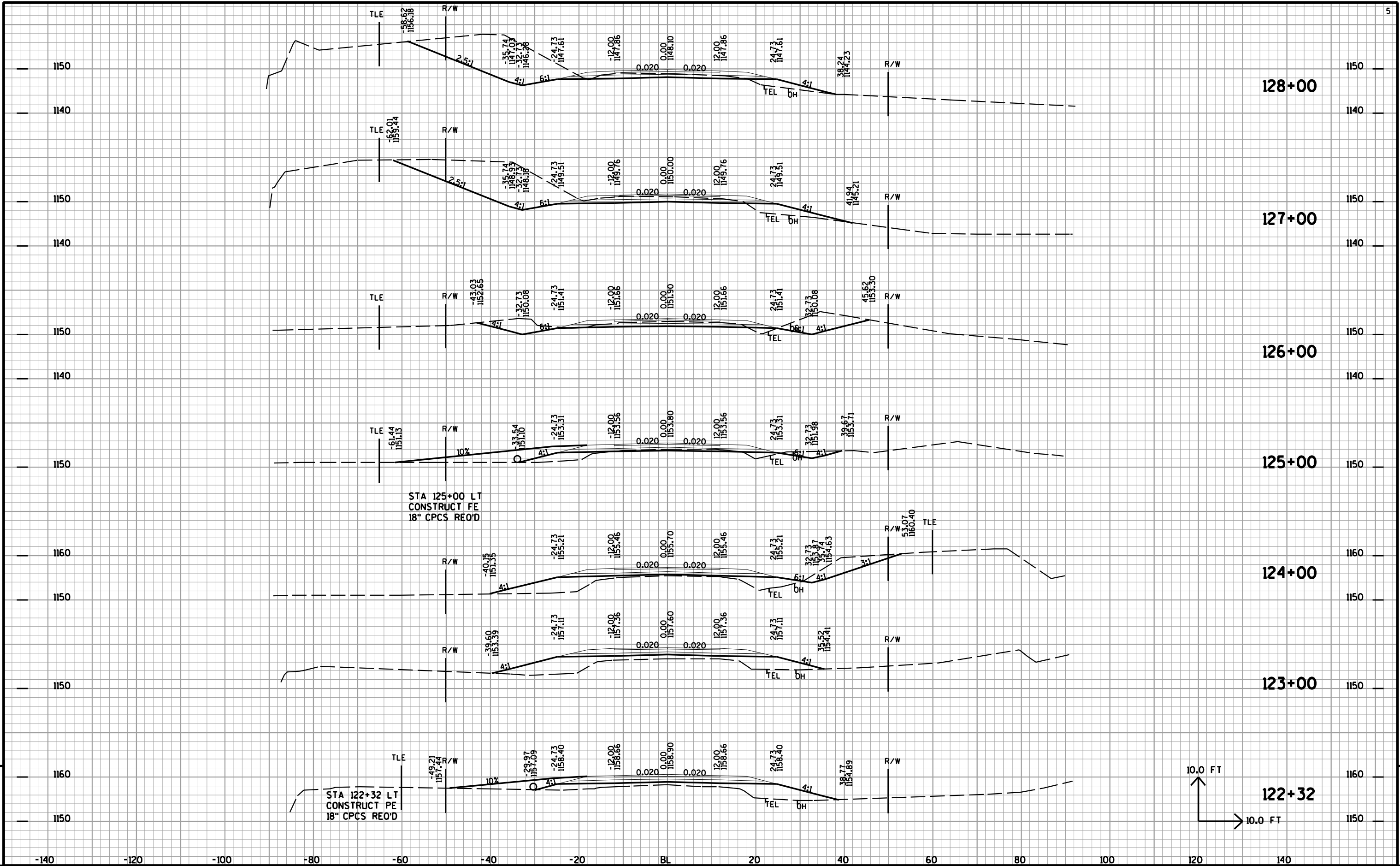
NOTE: SEE MISCELLANEOUS QUANTITY TABLES FOR
ADDITIONAL EARTHWORK DATA INFORMATION

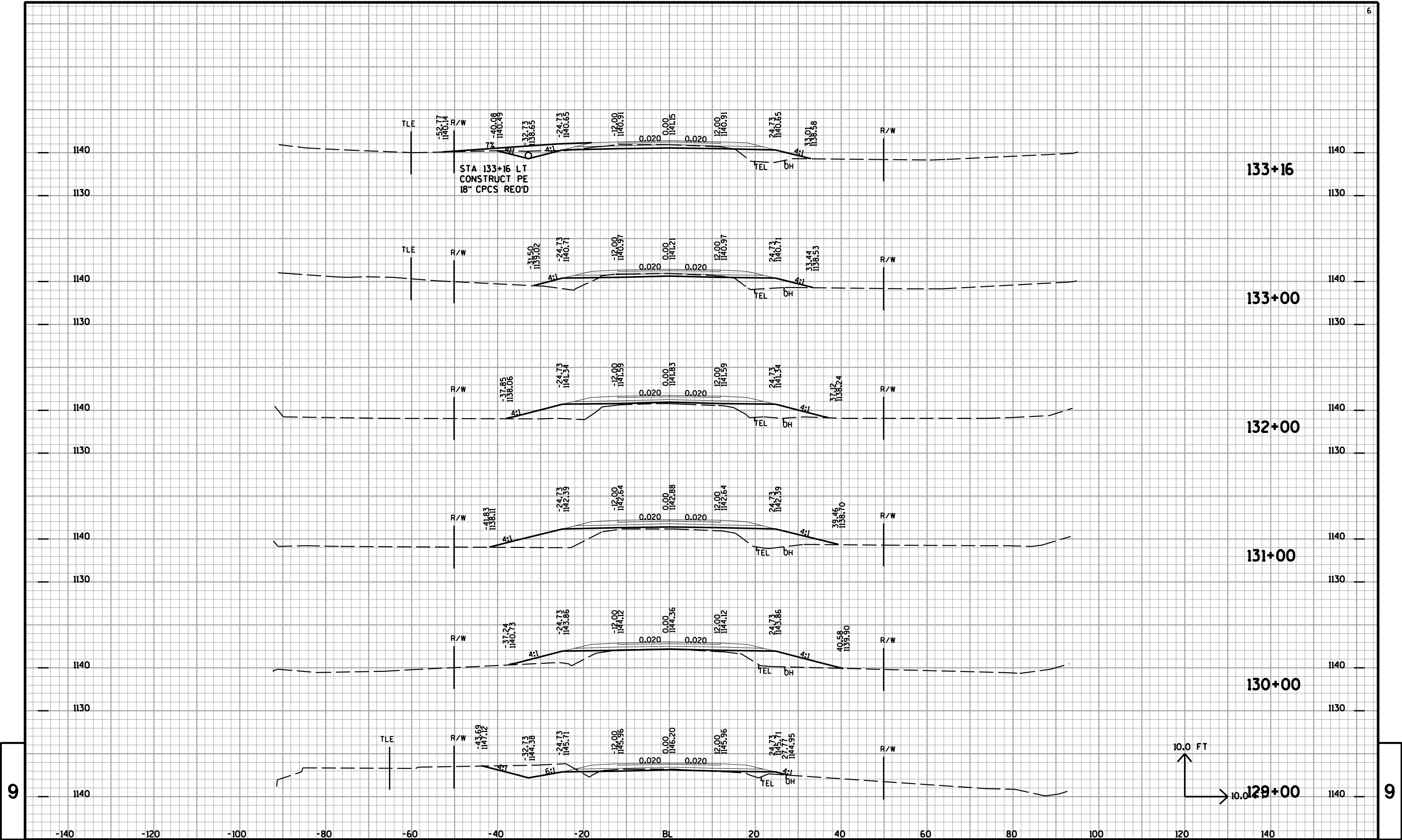


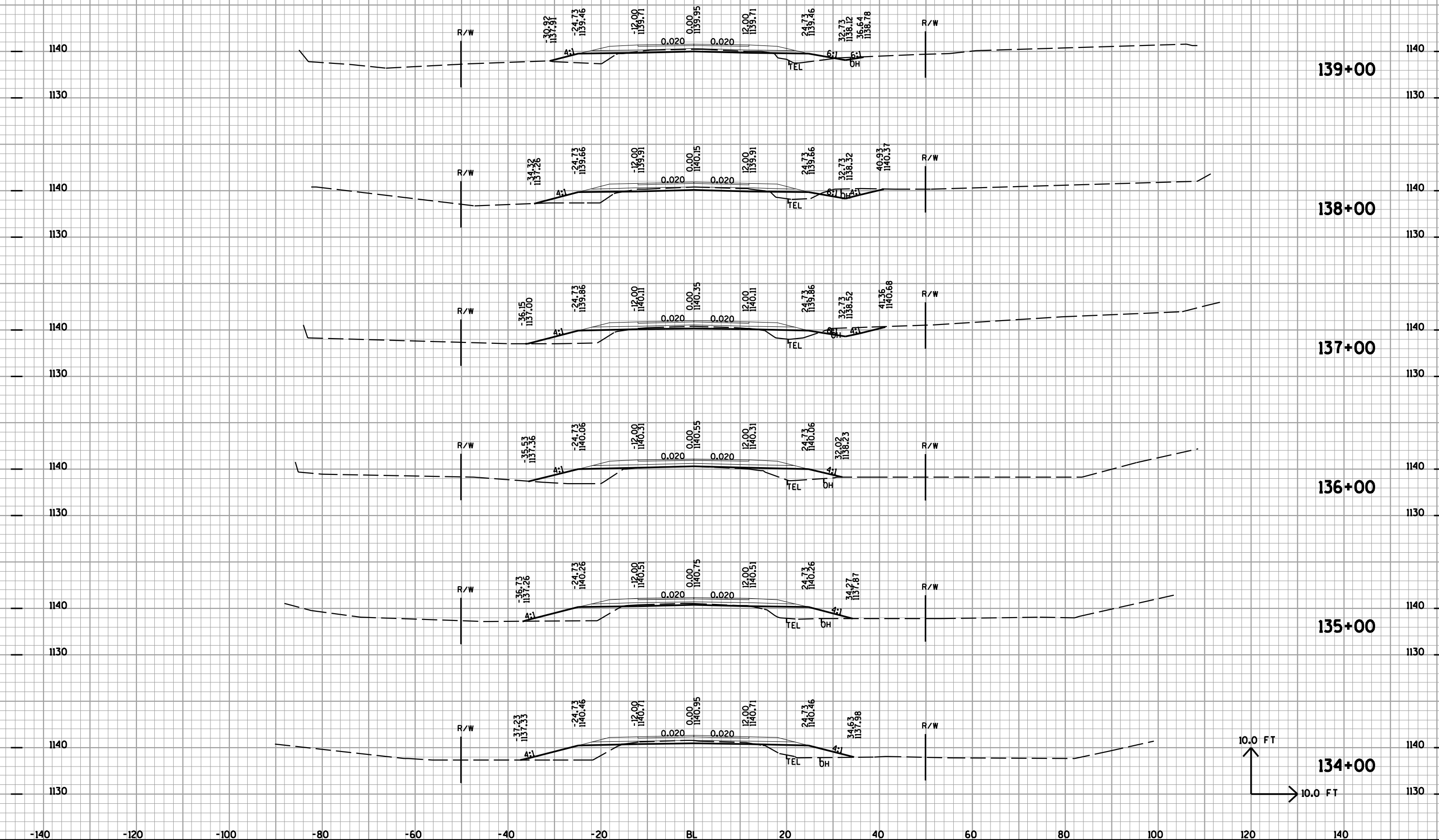


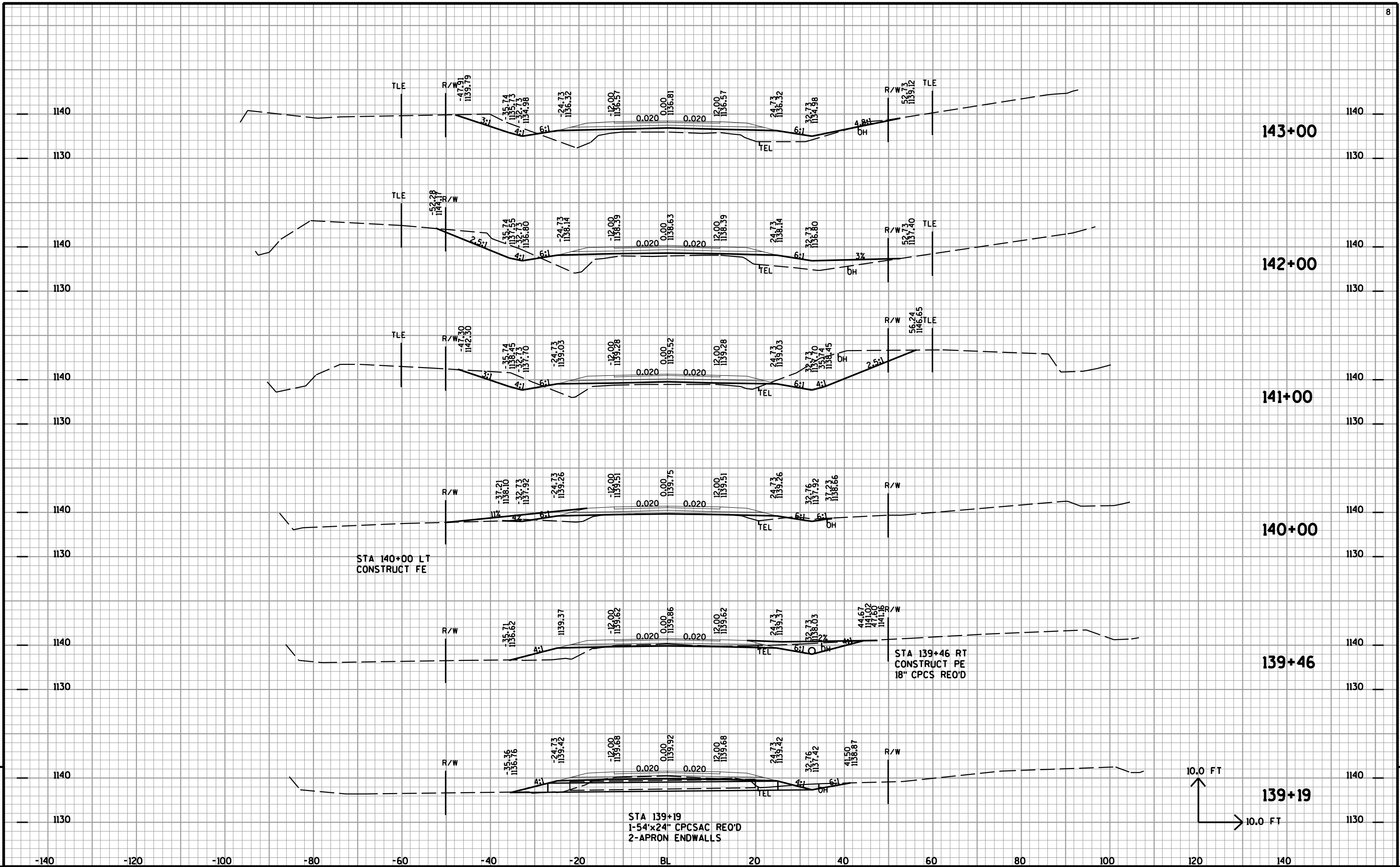


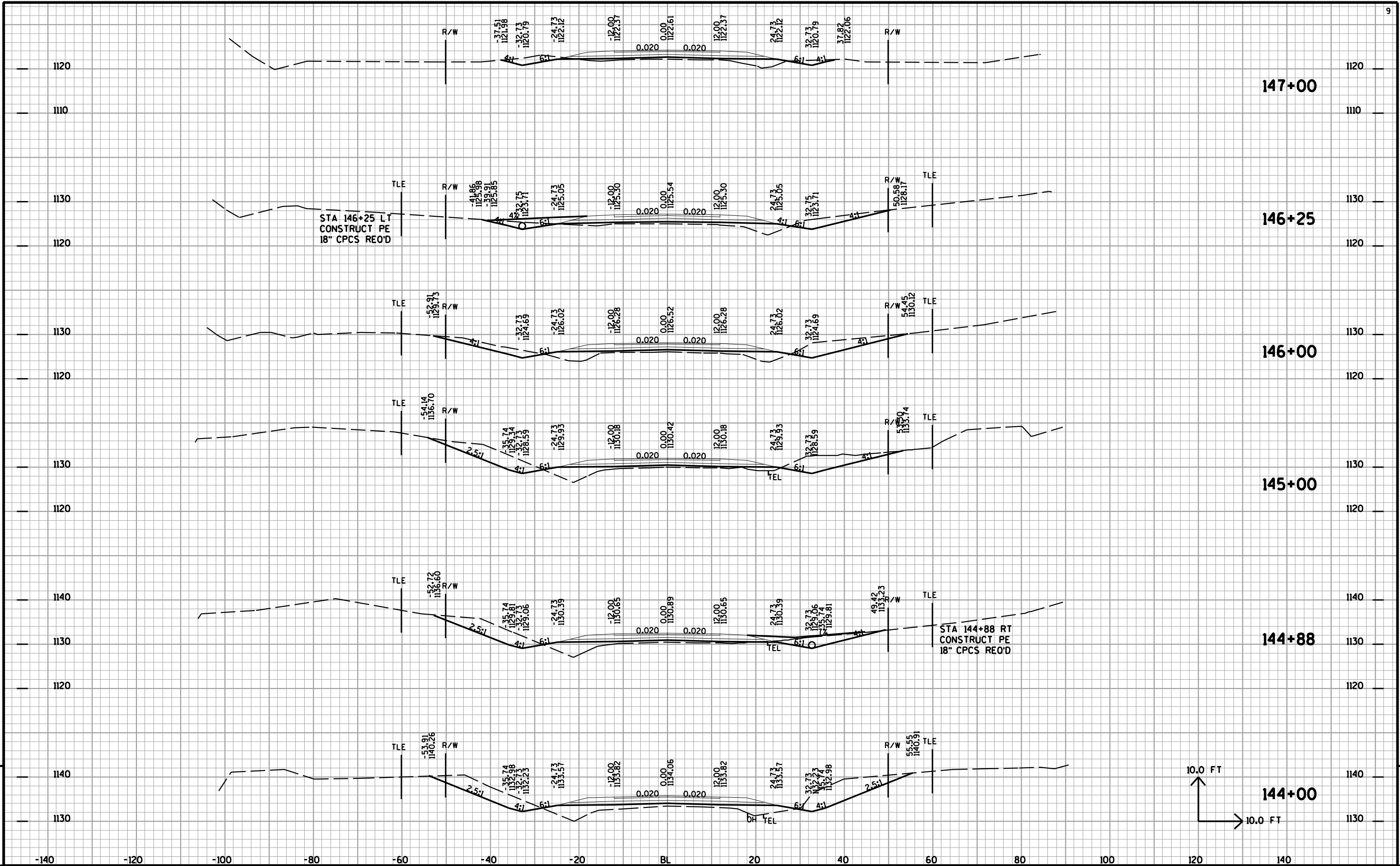


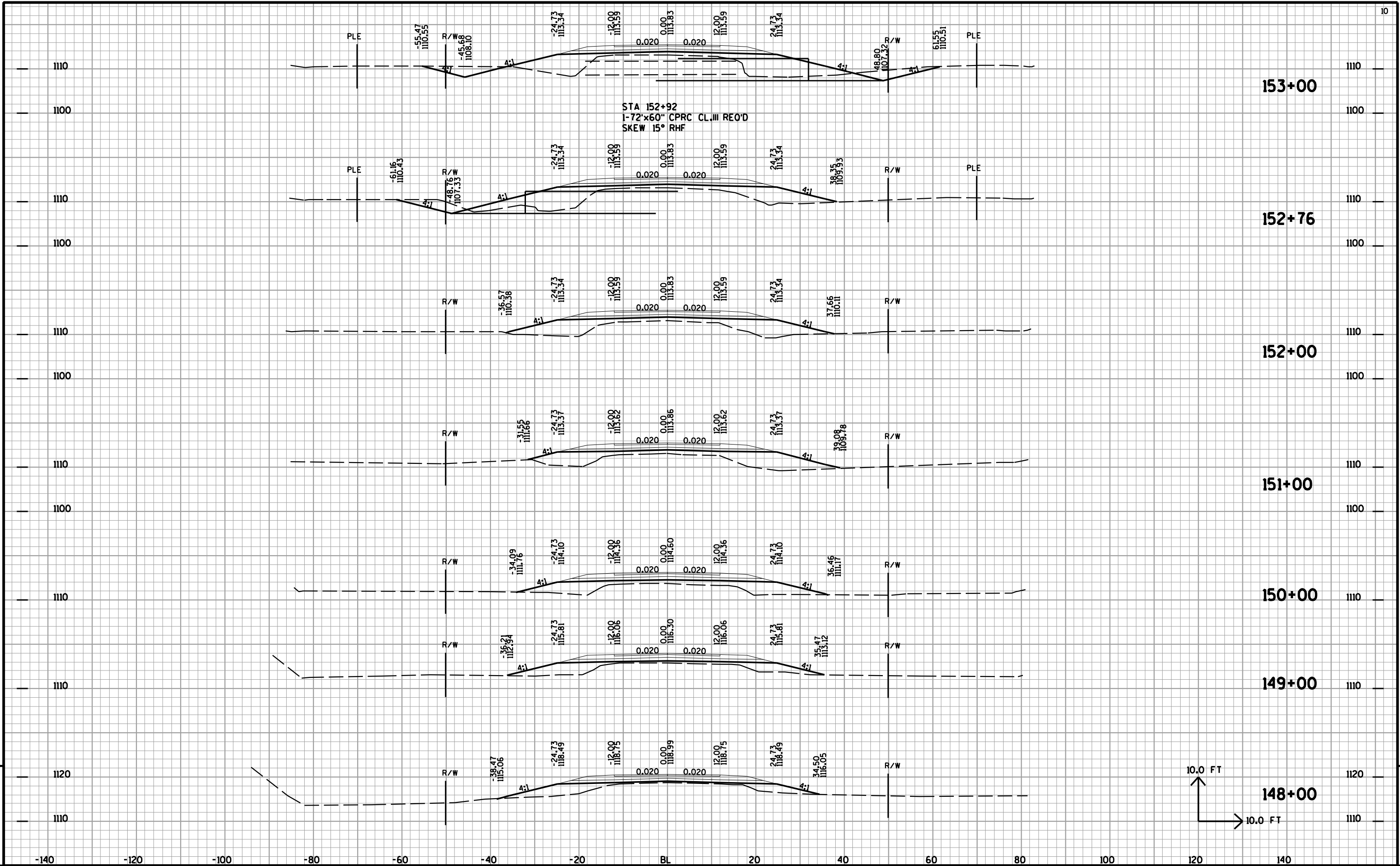


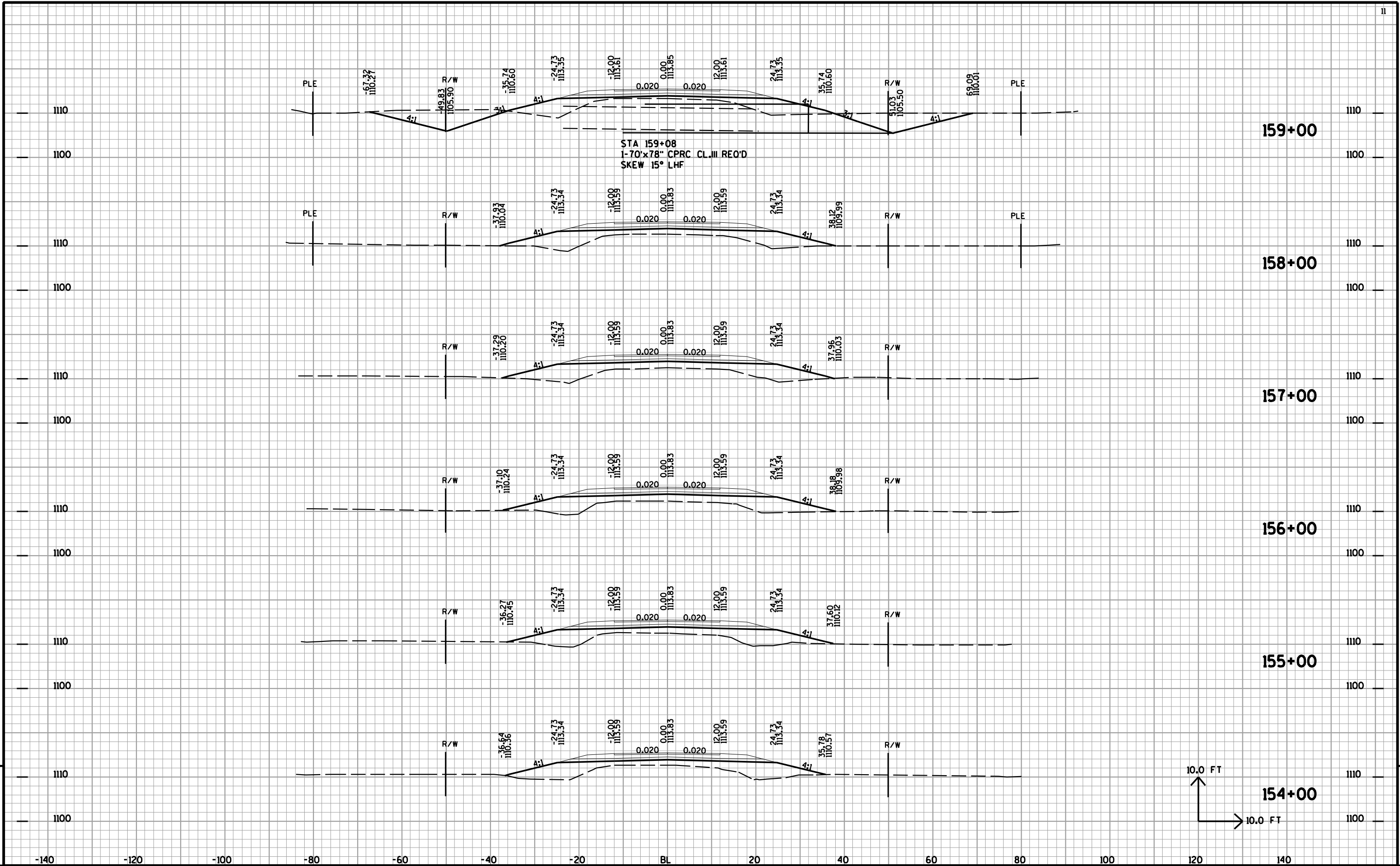


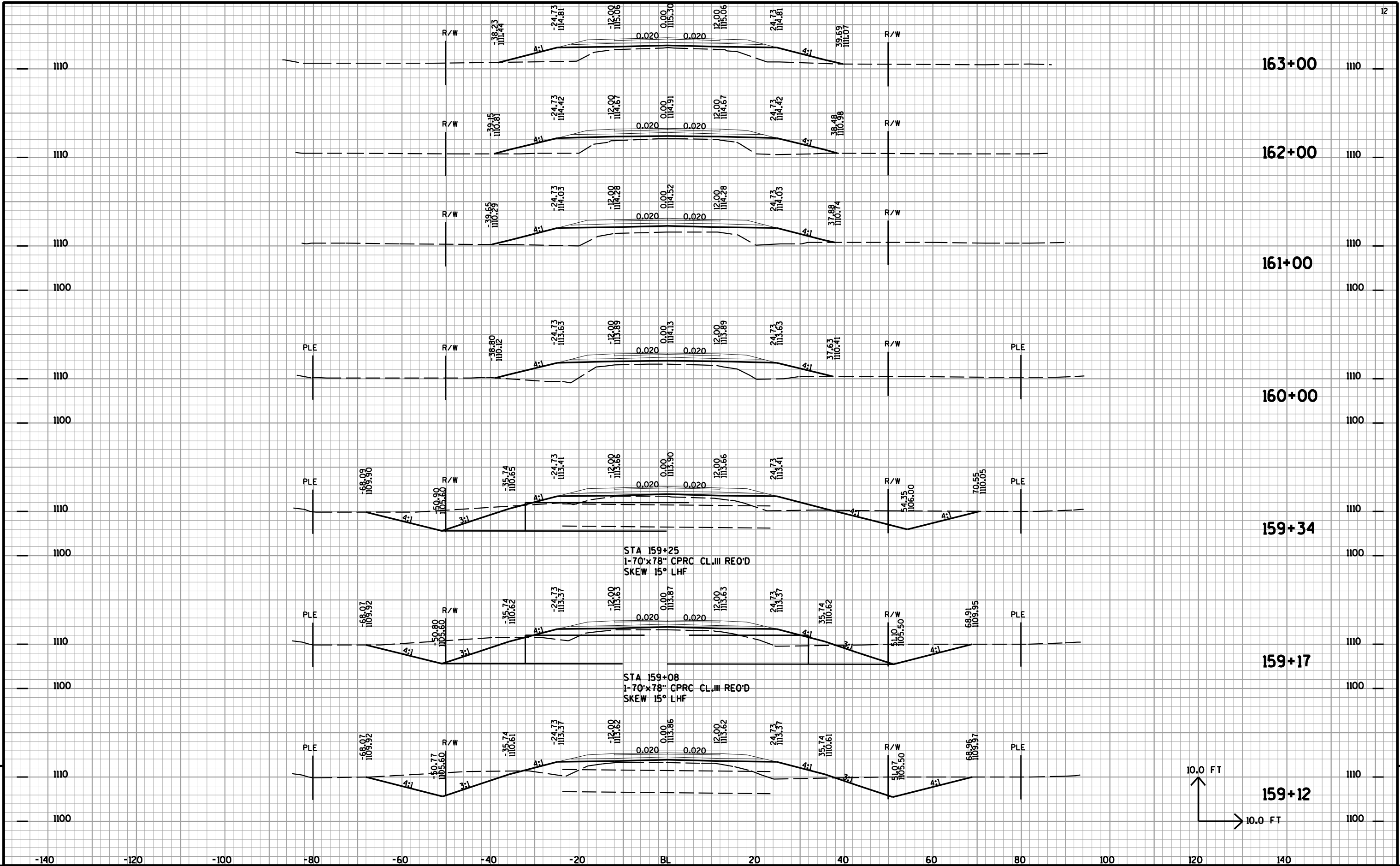


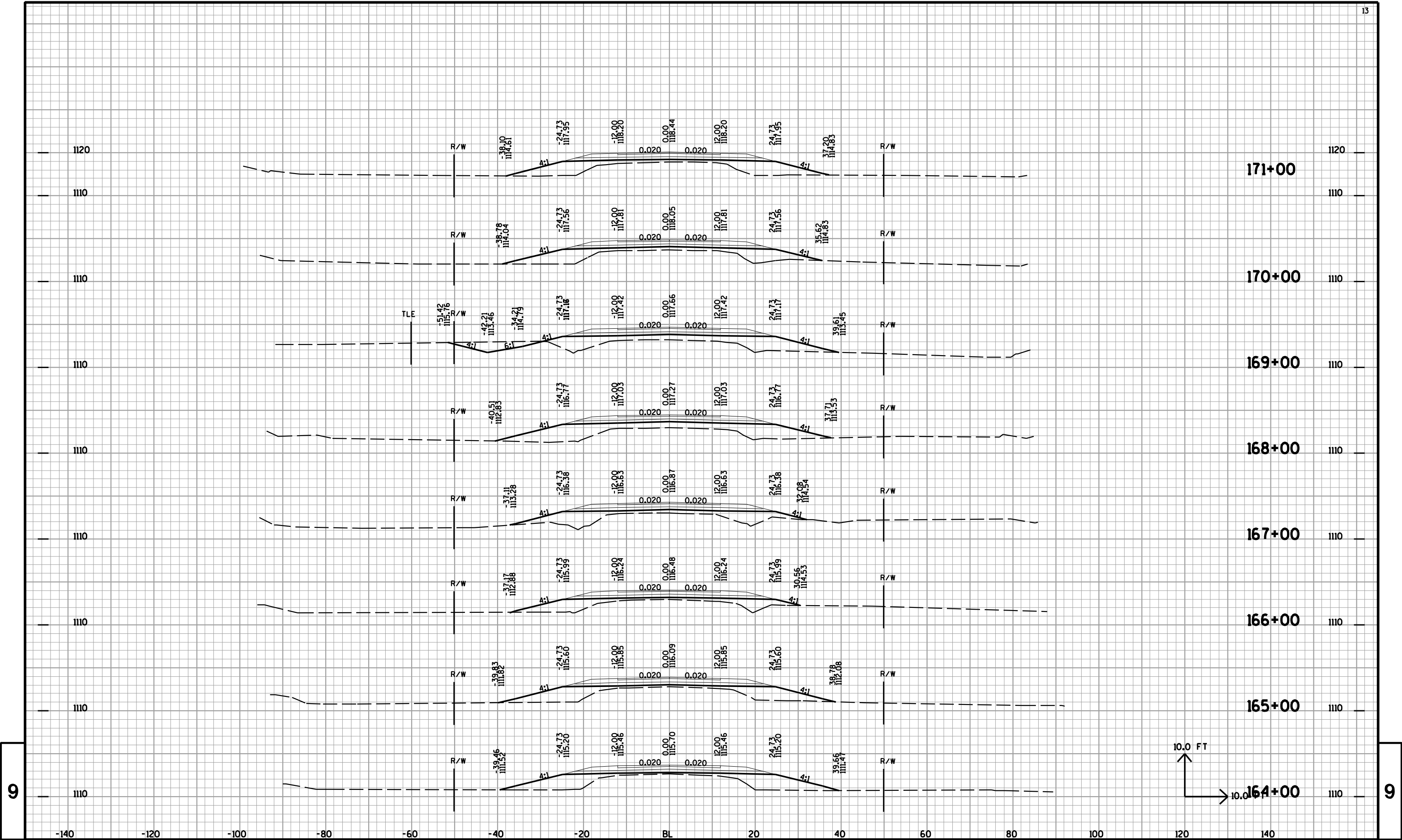






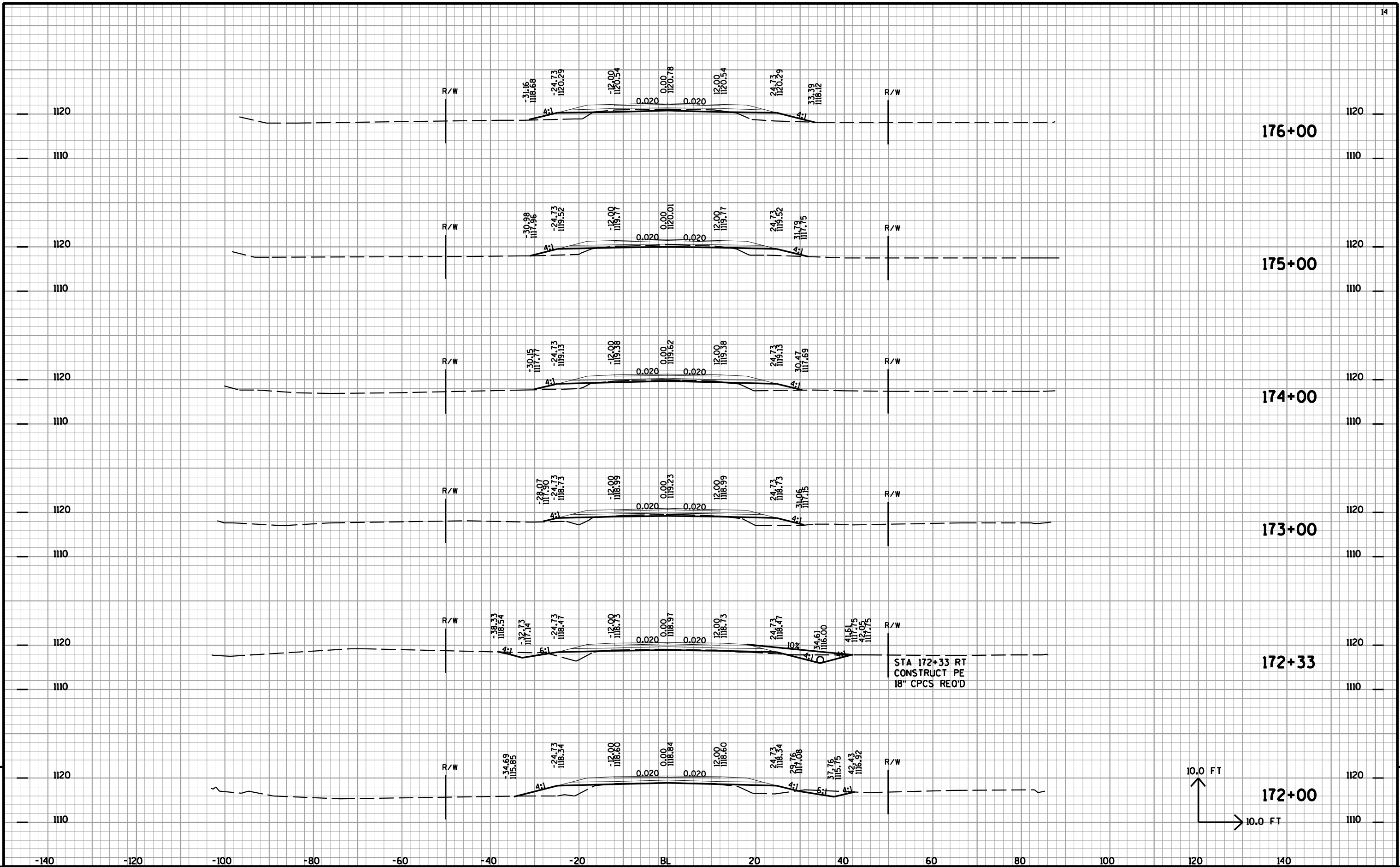


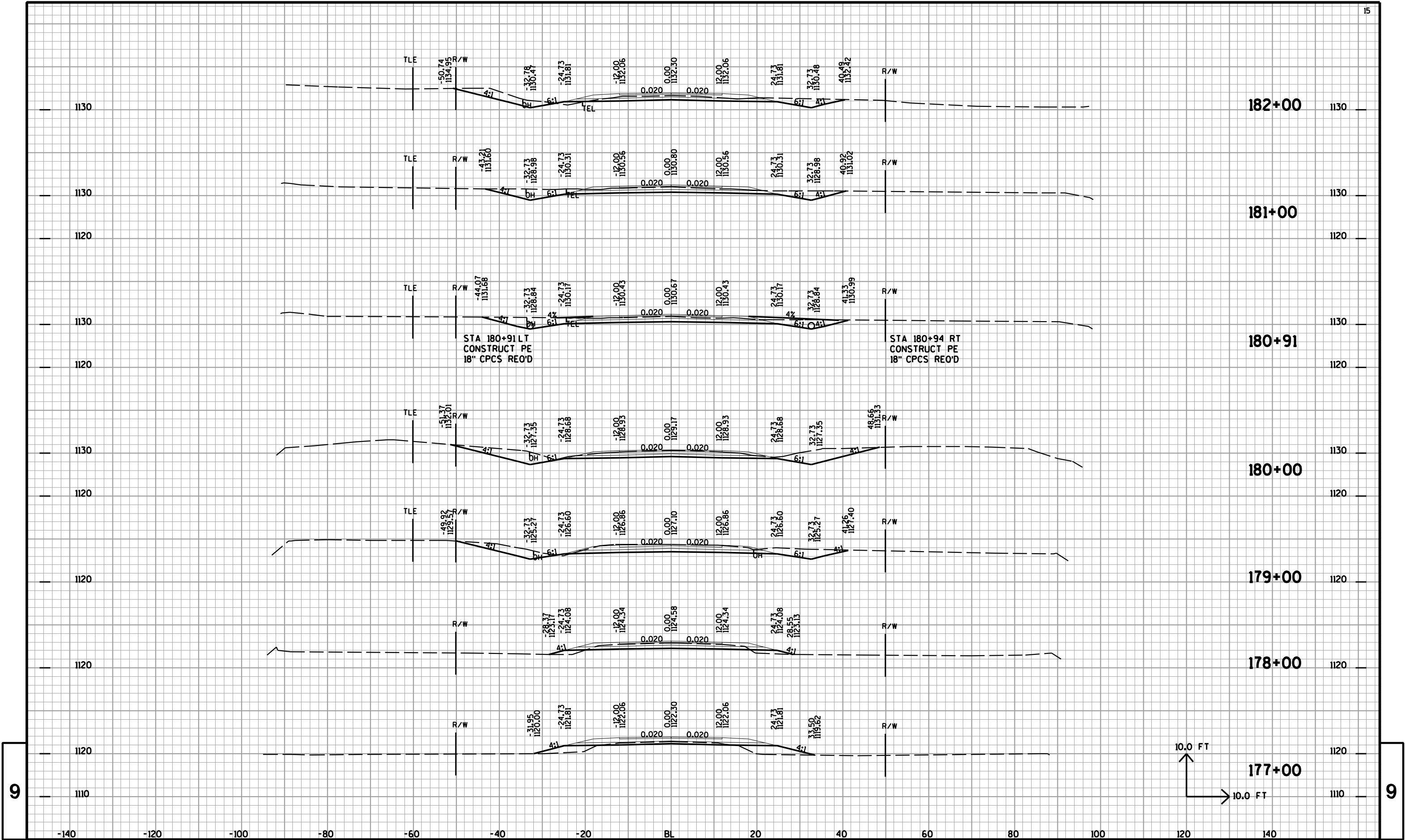


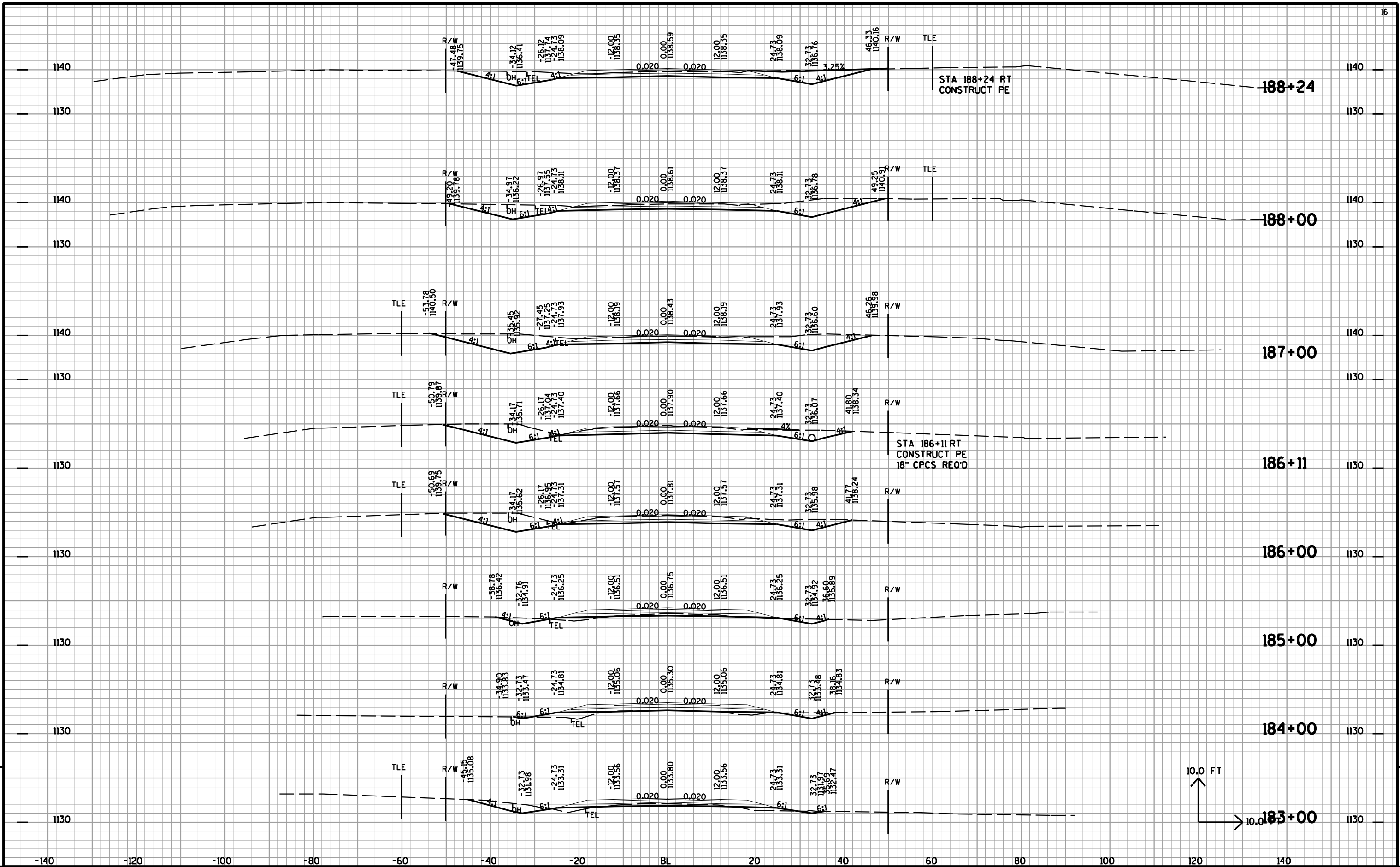


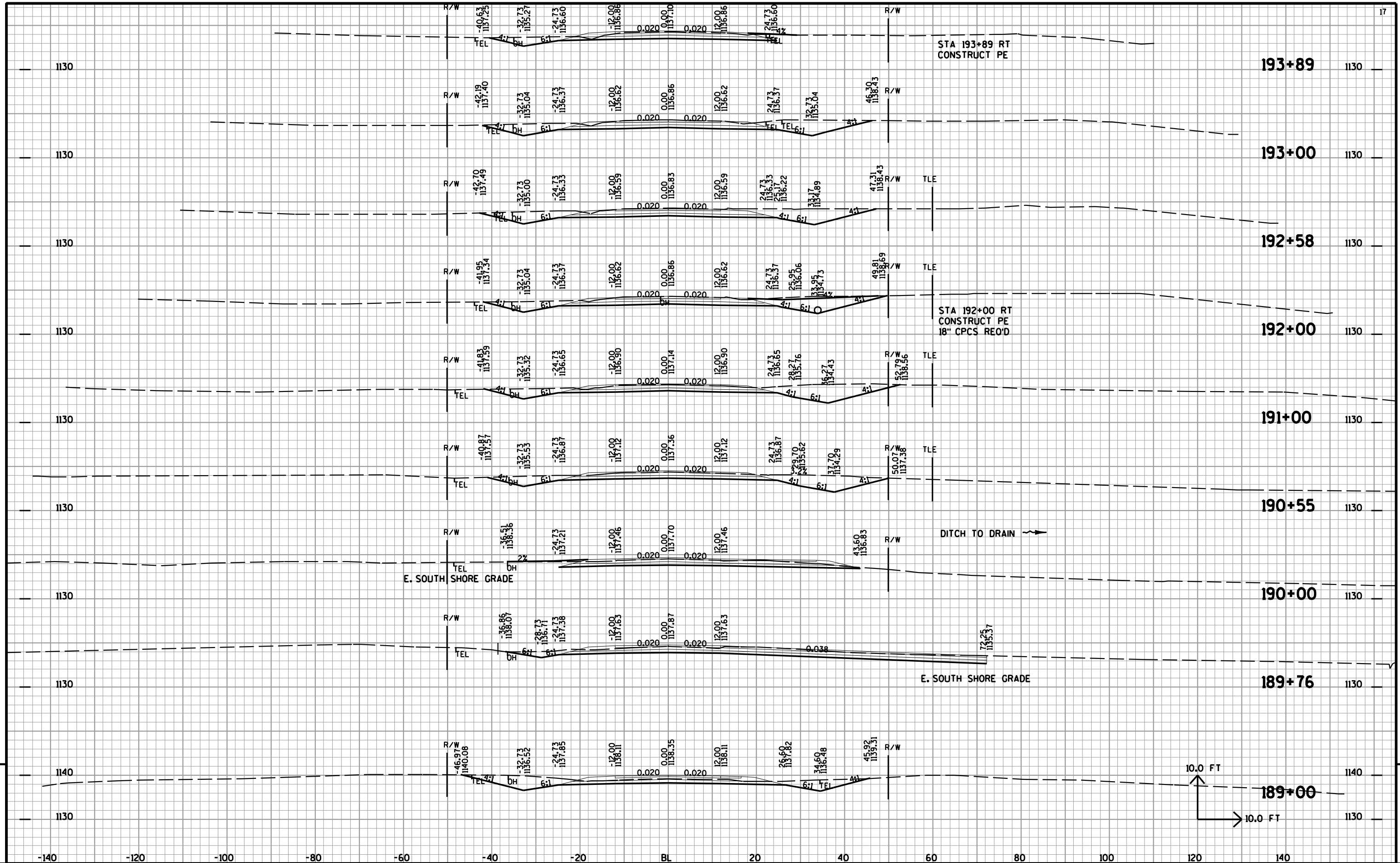
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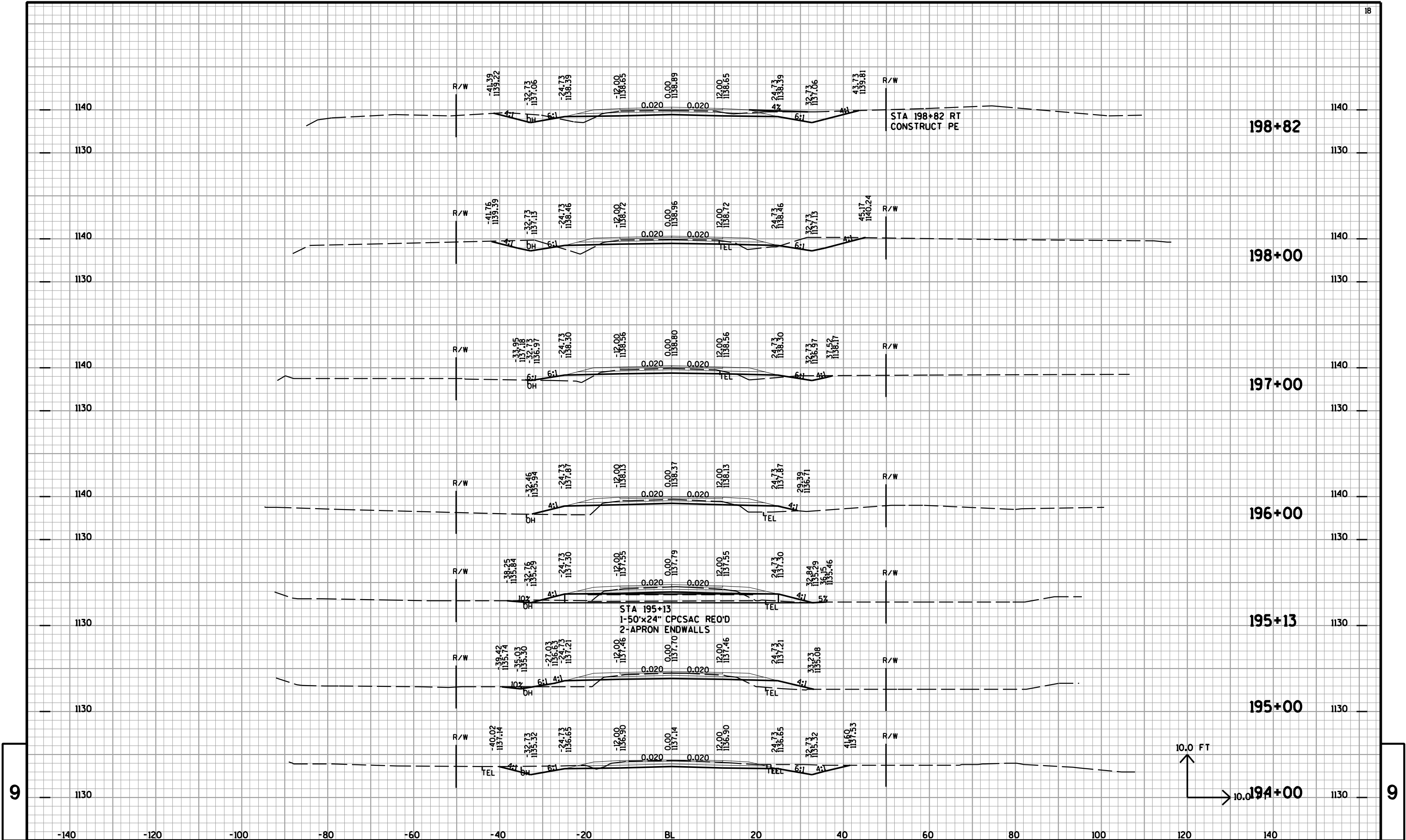
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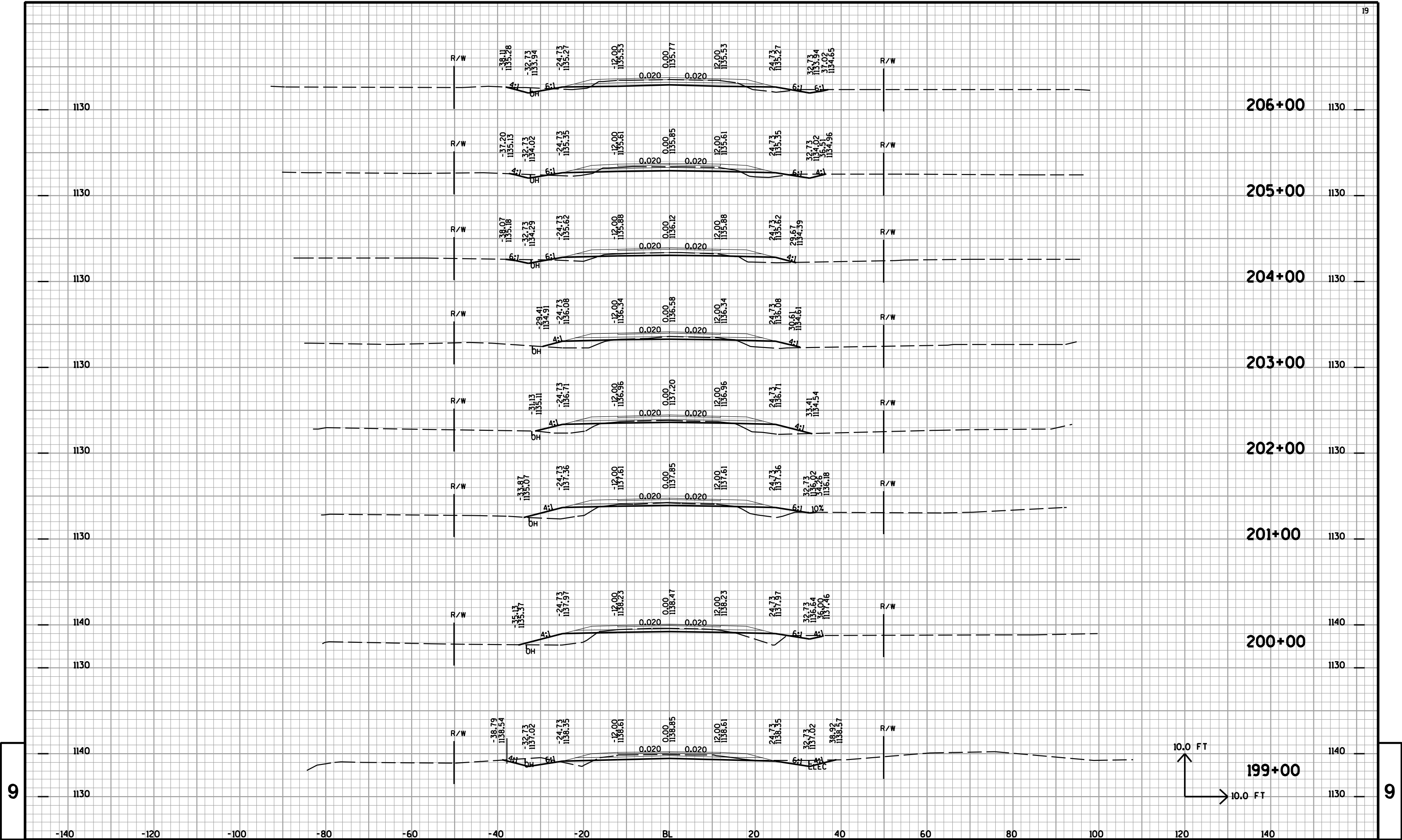


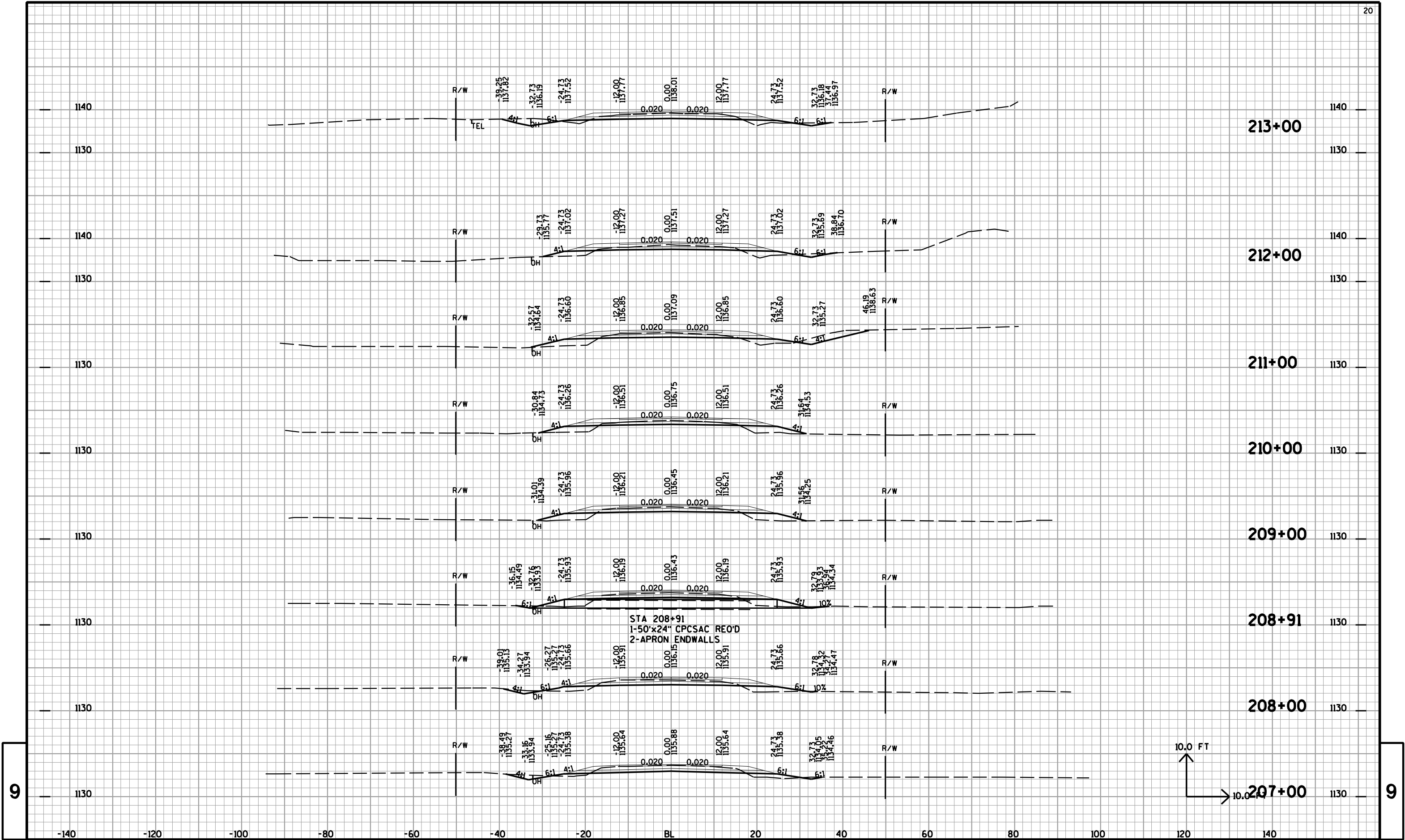


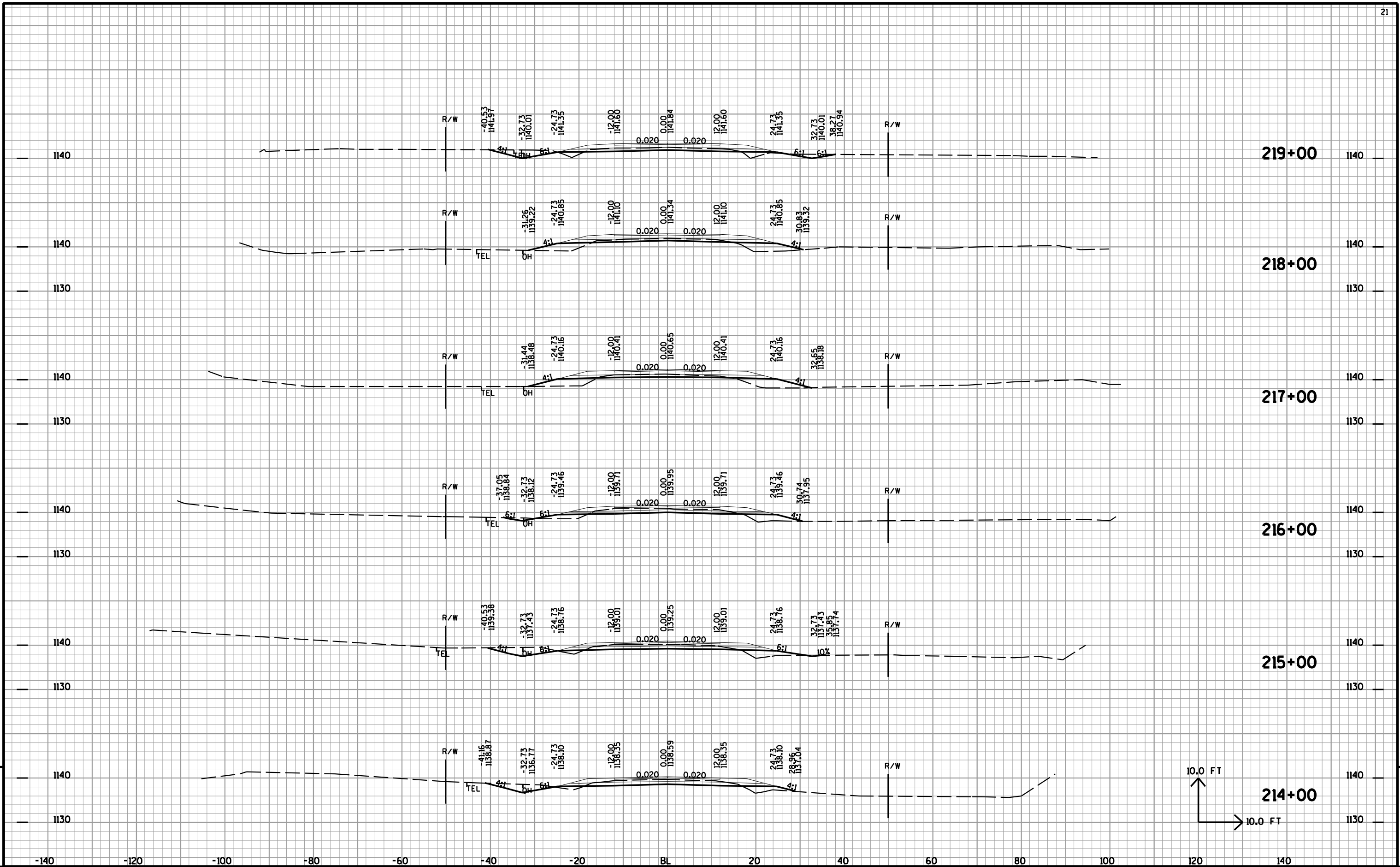






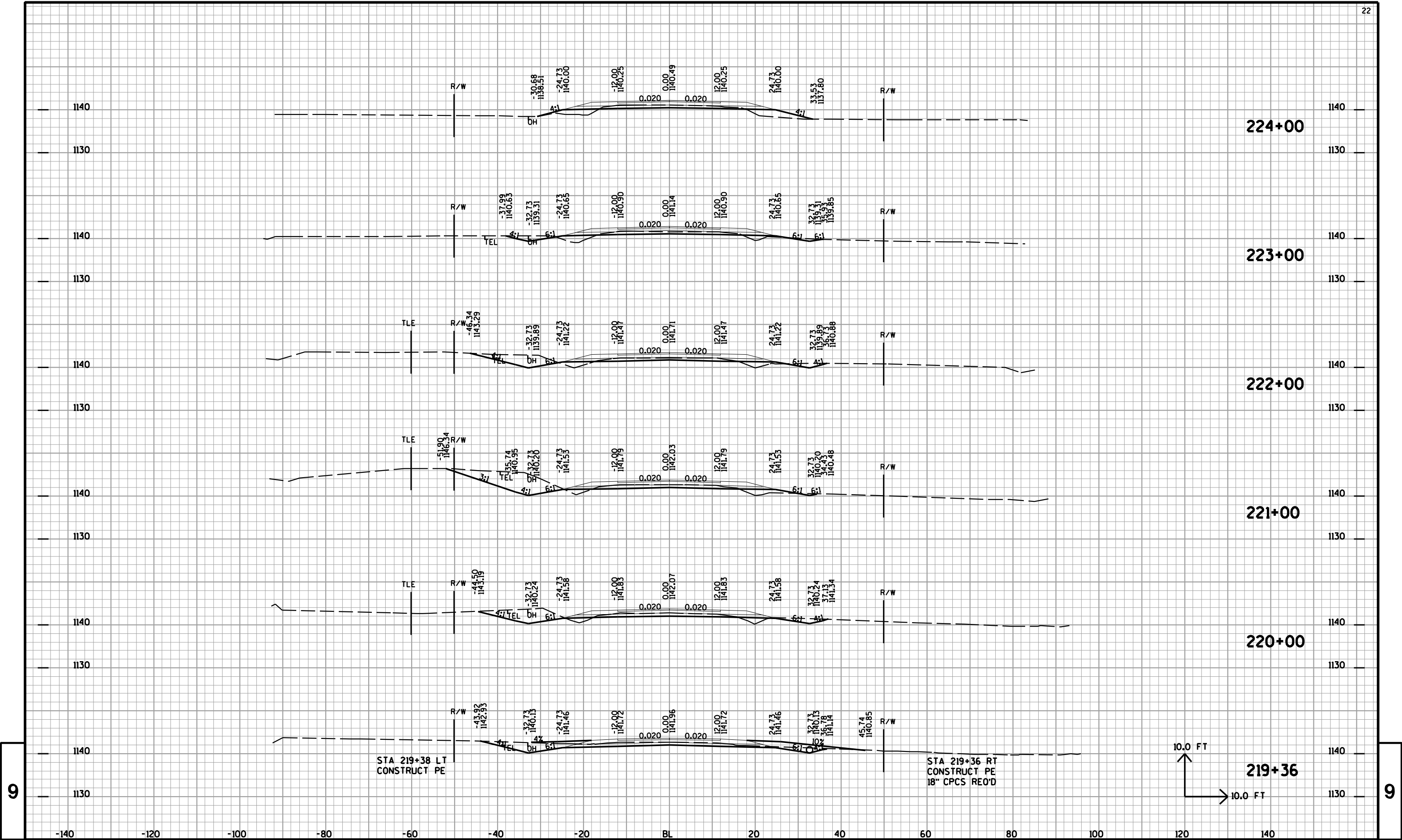






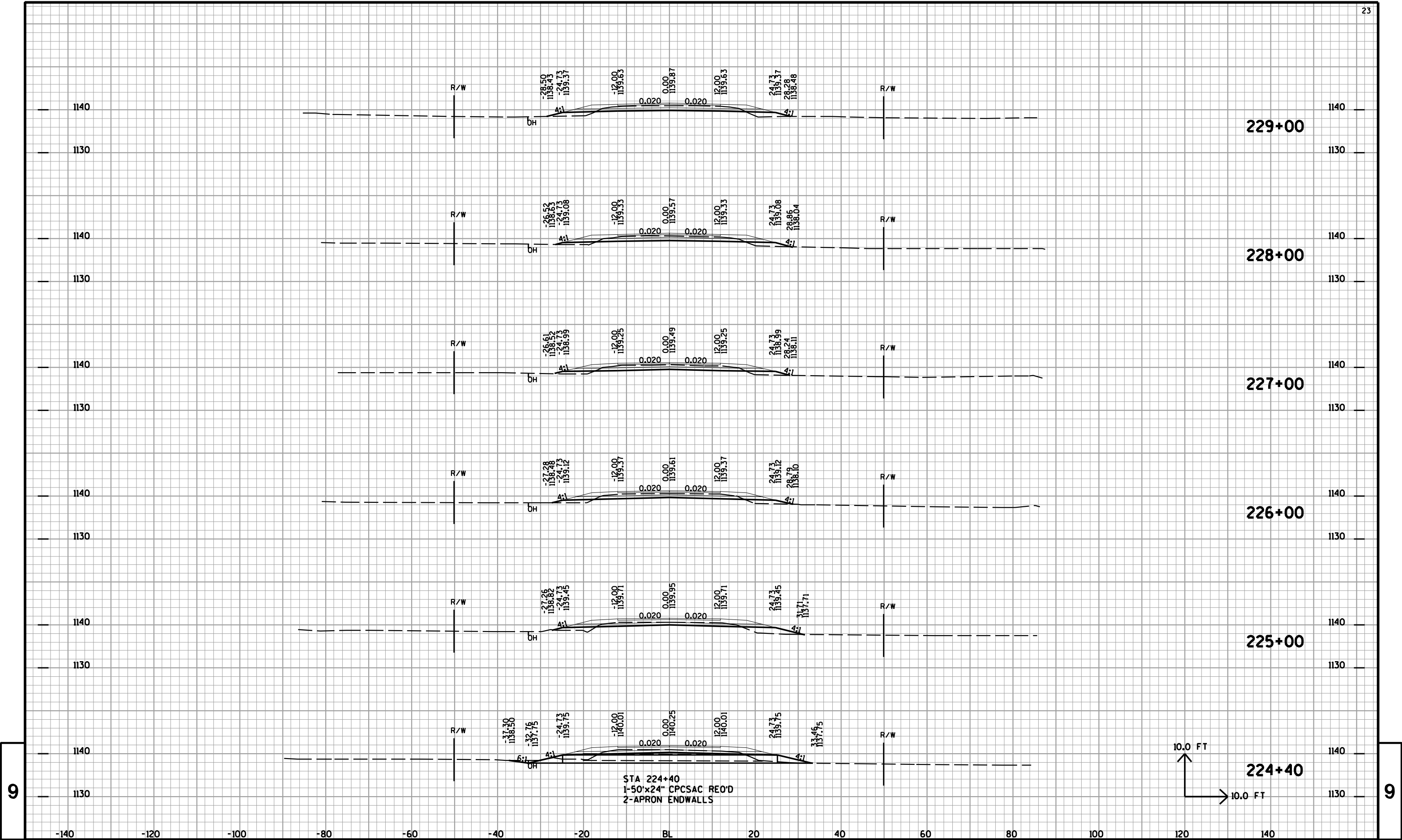
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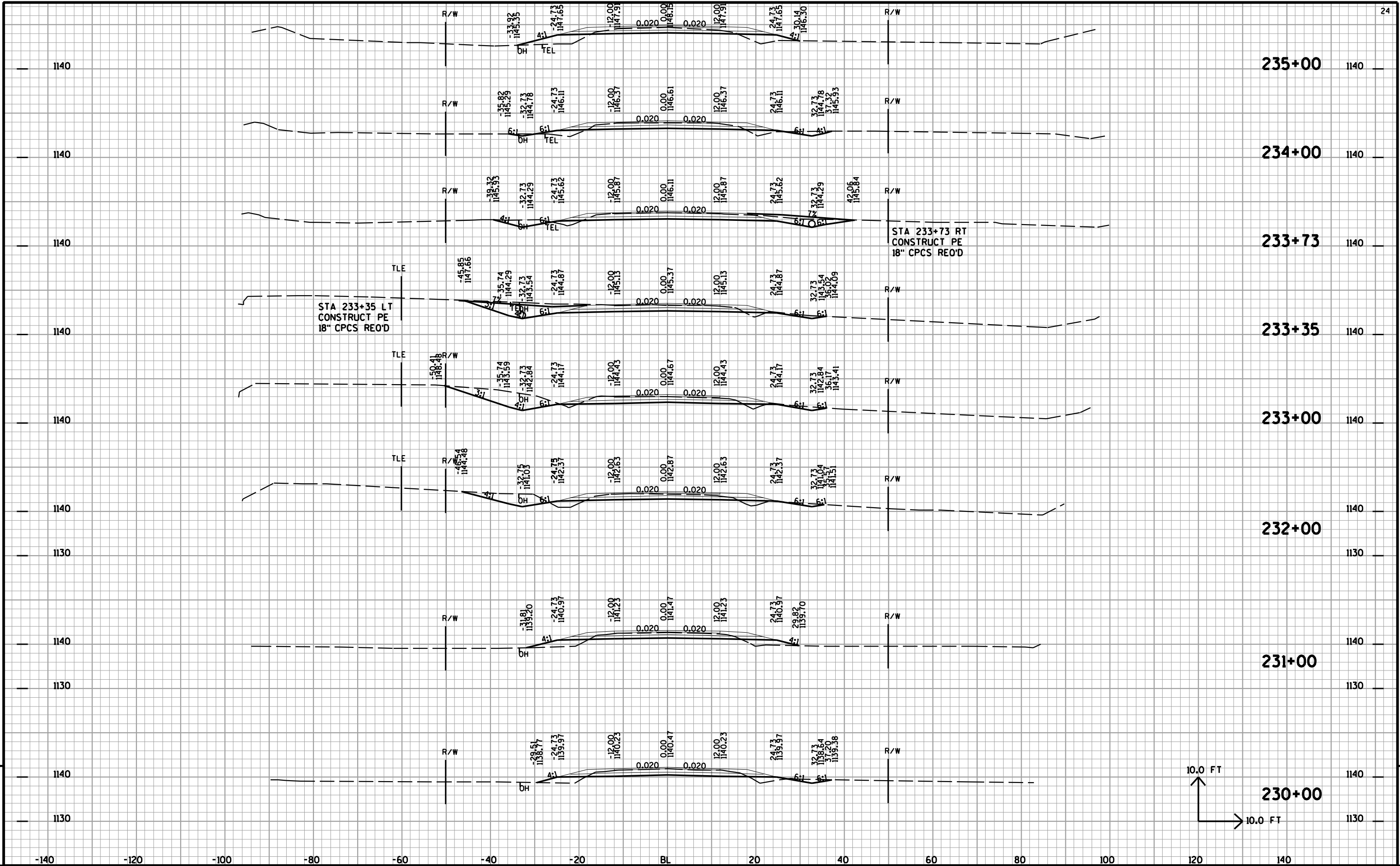
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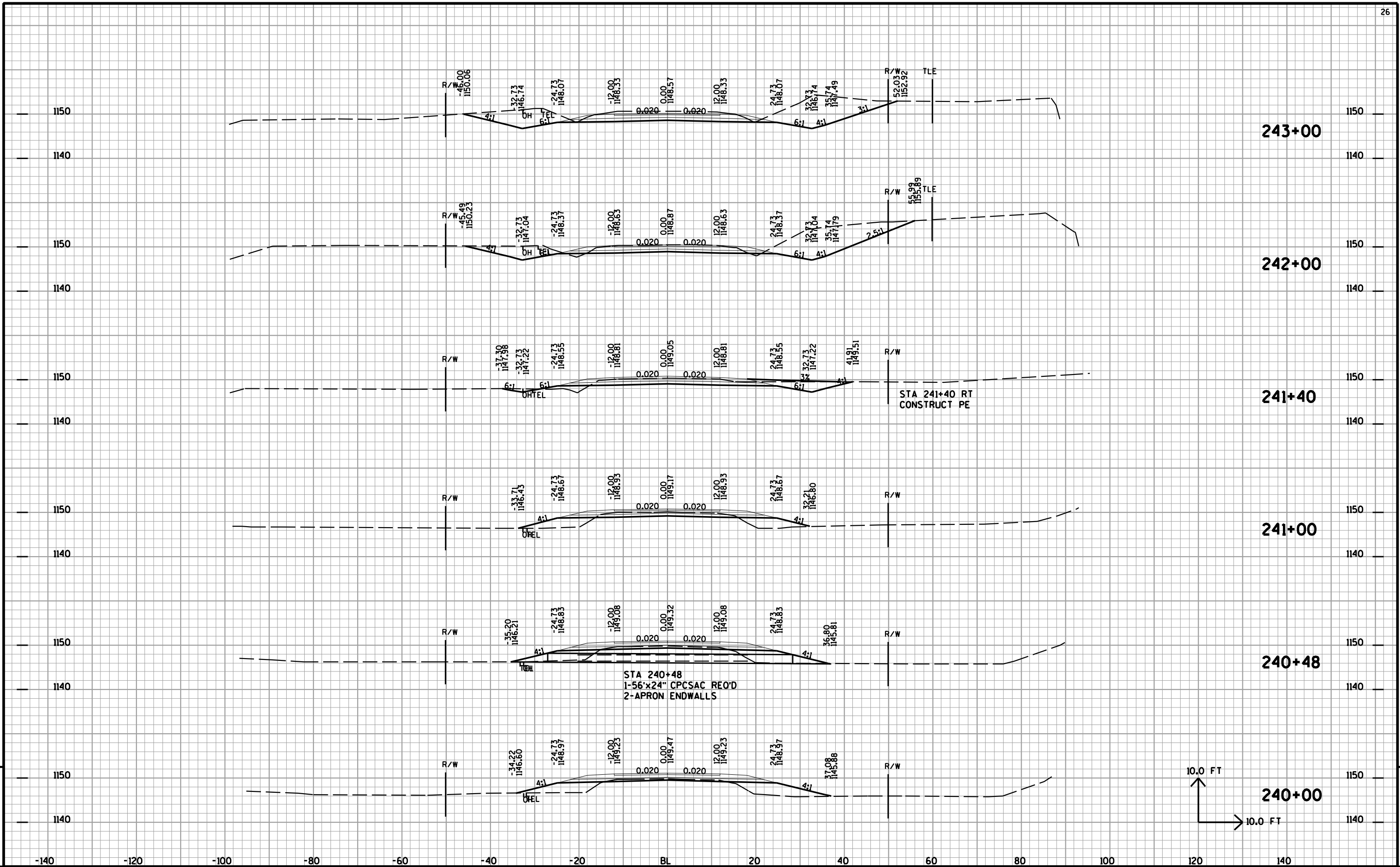
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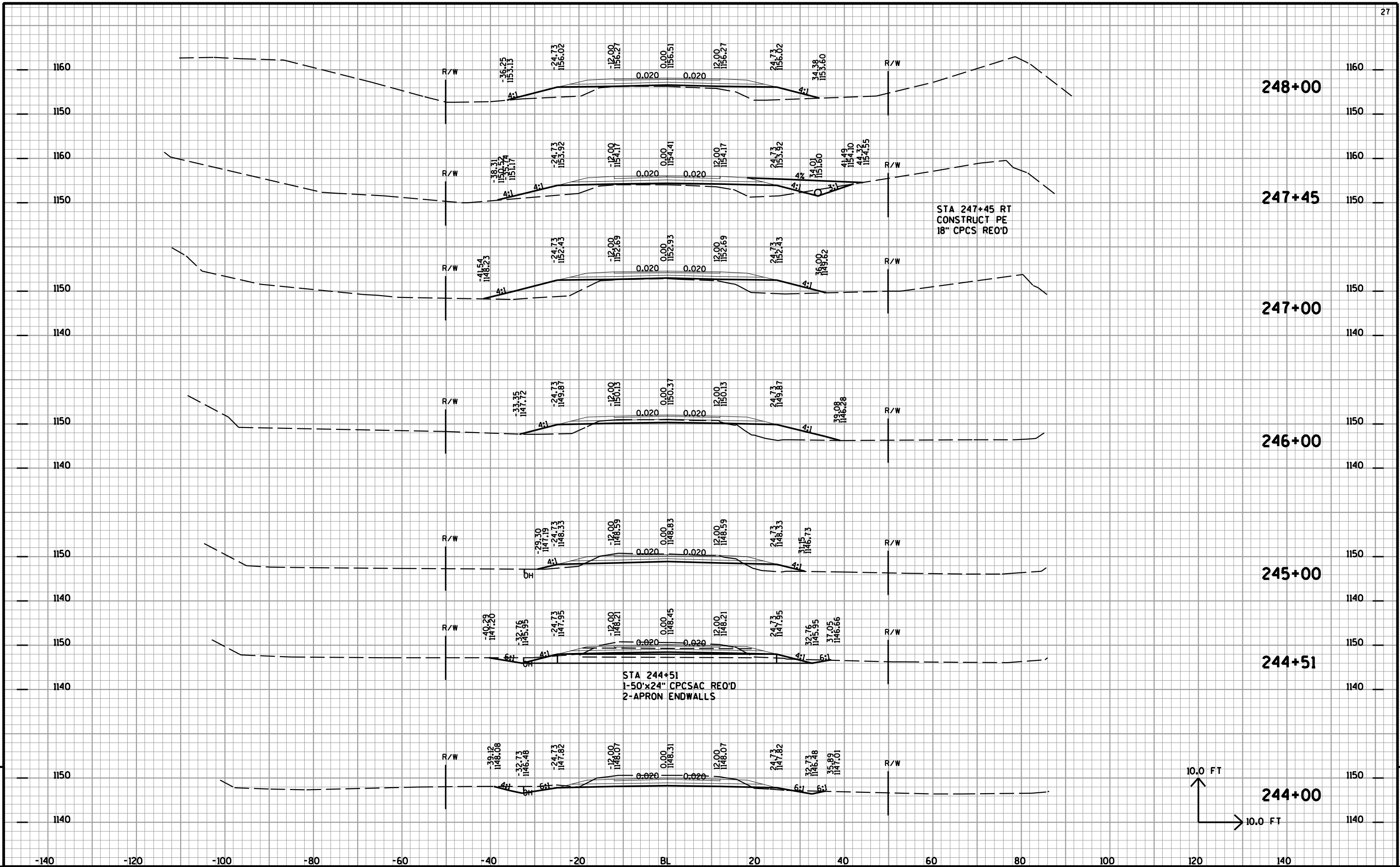






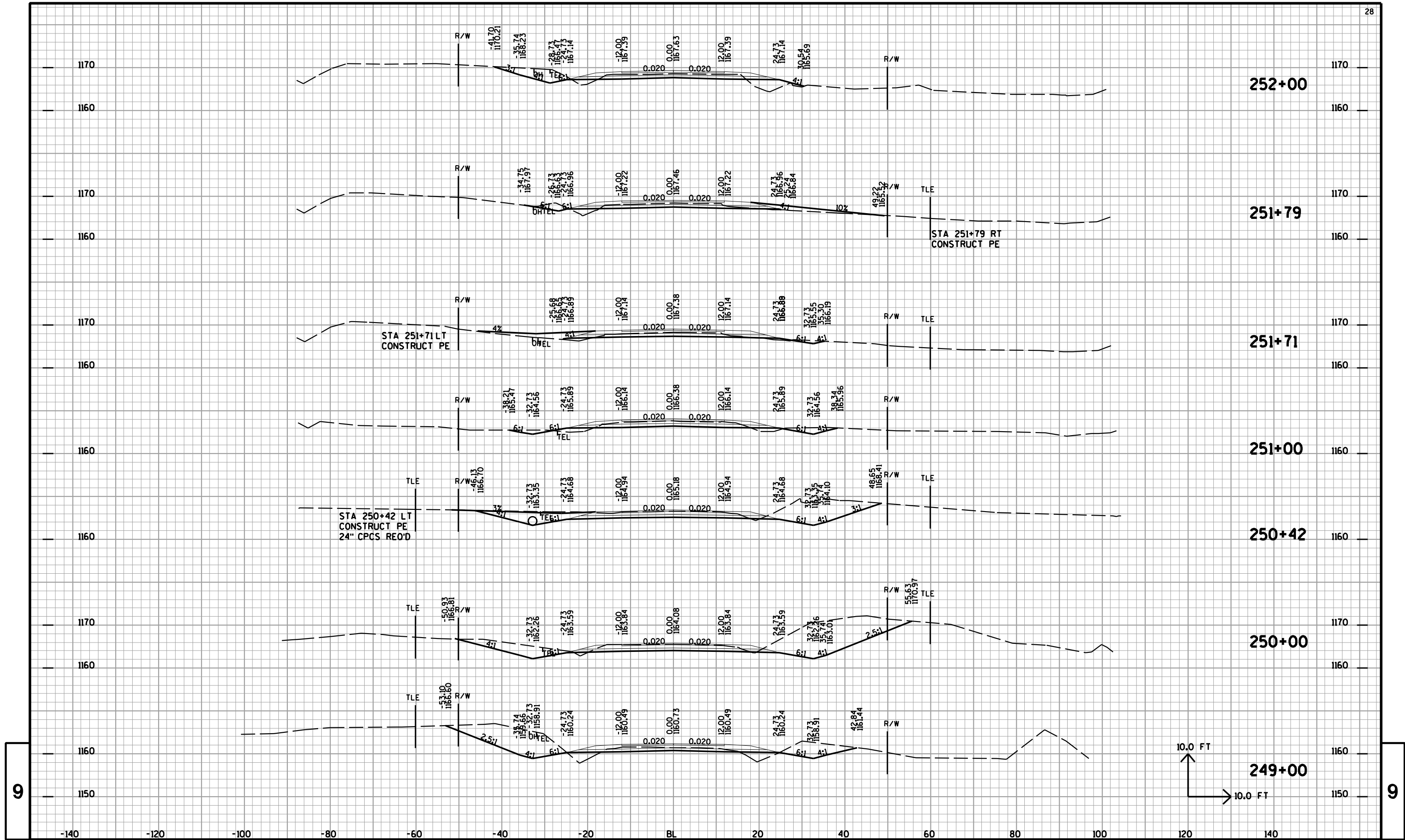
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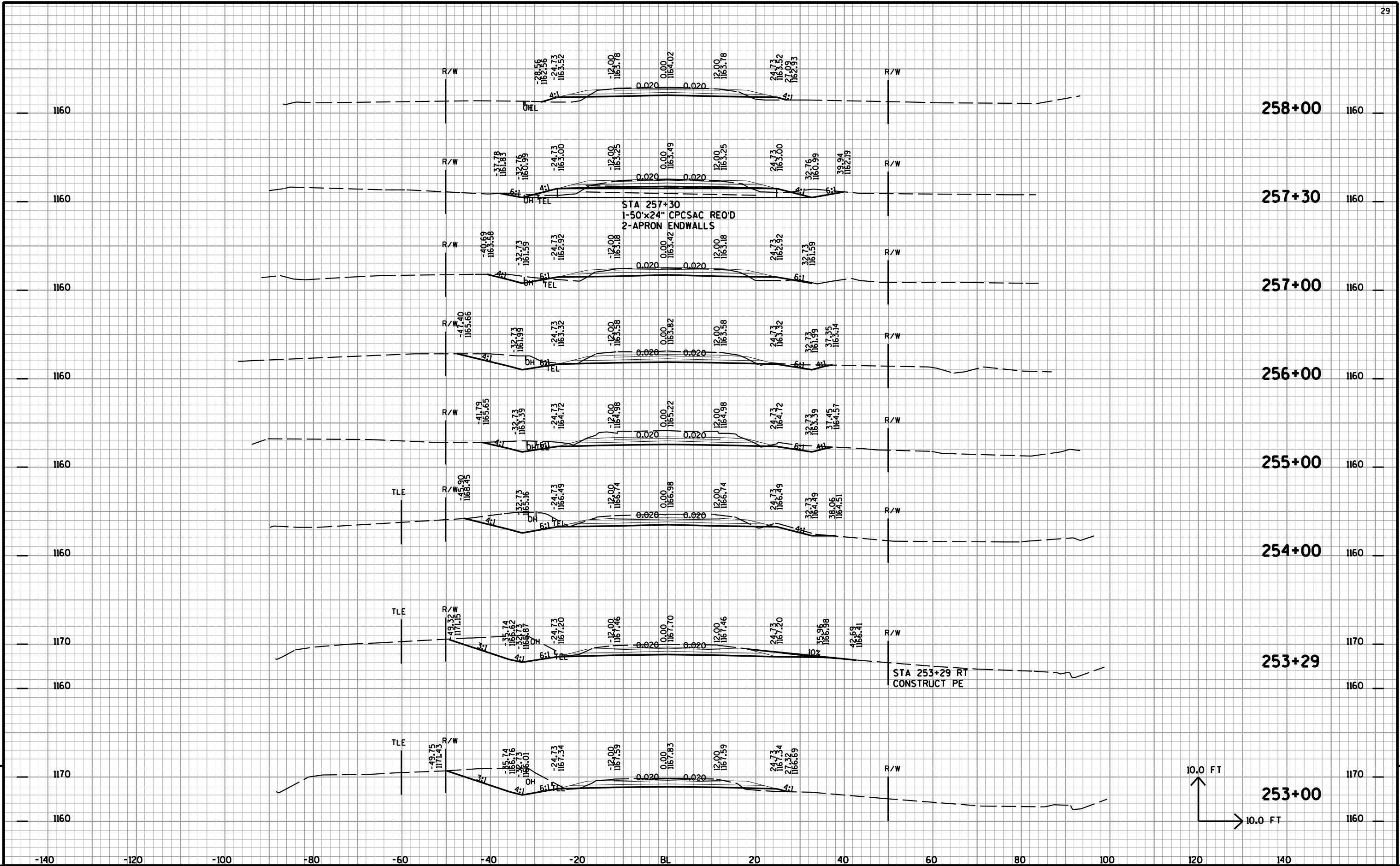
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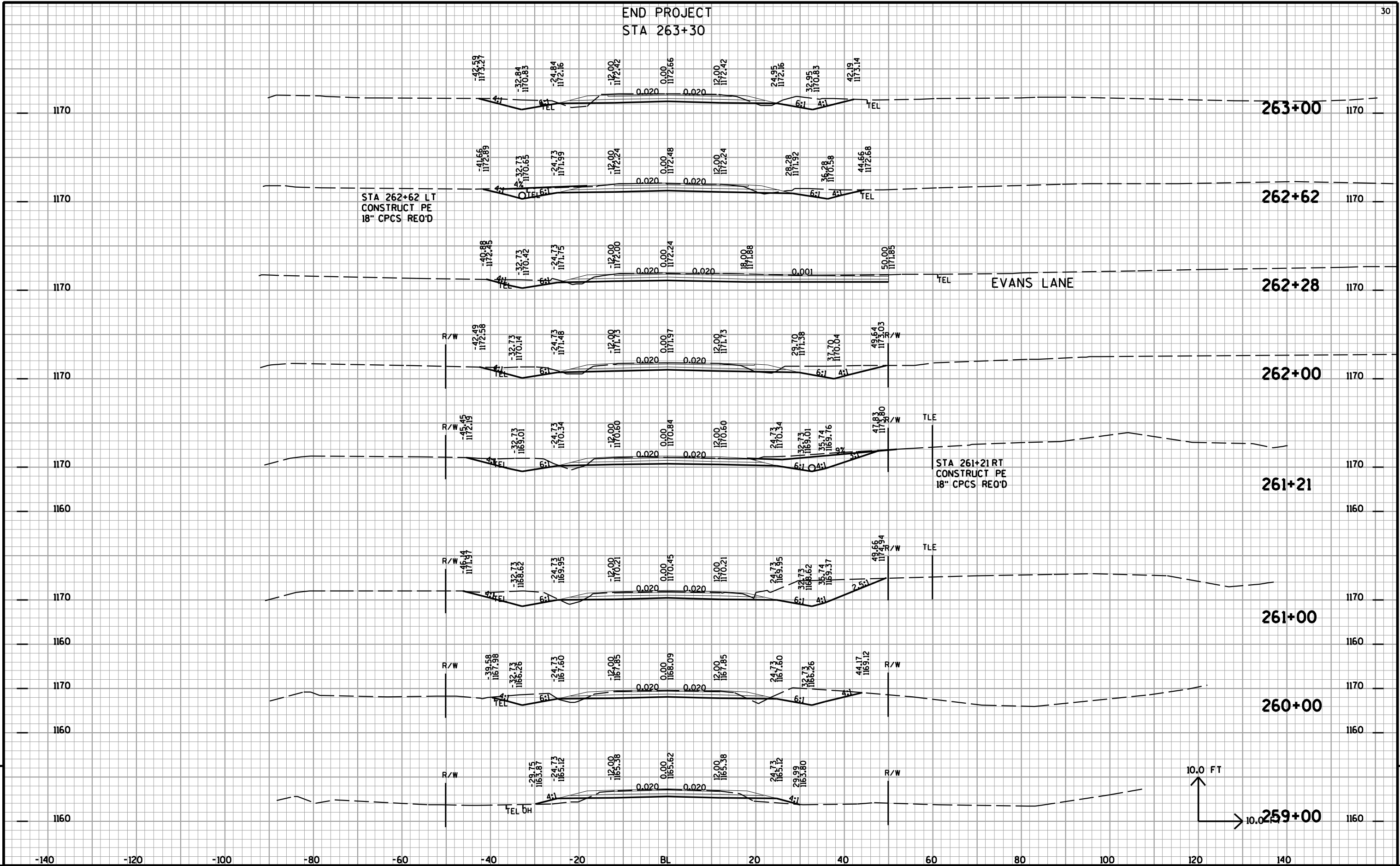
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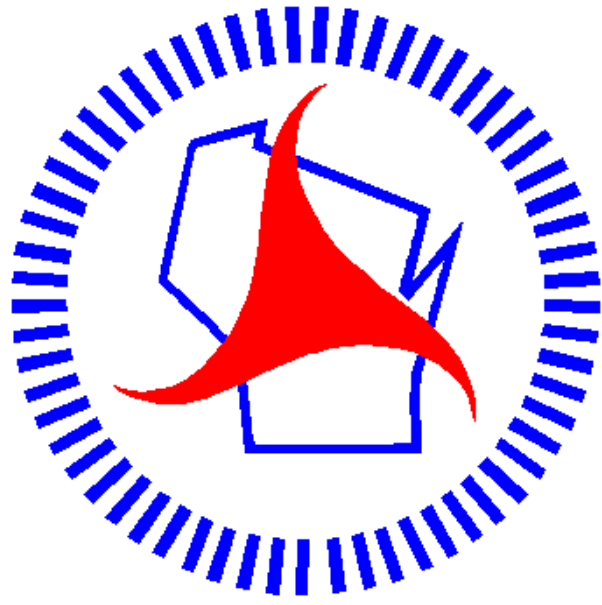


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