

# STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

## MN STATE LINE - STH 35

(MN STATE LINE TO BARNES ROAD)

**CTH C  
DOUGLAS**

STATE PROJECT NUMBER
<b>8758-00-72</b>

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
8758-00-72	WISC 2024336	1

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 = 180

PROJECT ID: 8758-00-72

COUNTY: DOUGLAS



37

DESIGN DESIGNATION

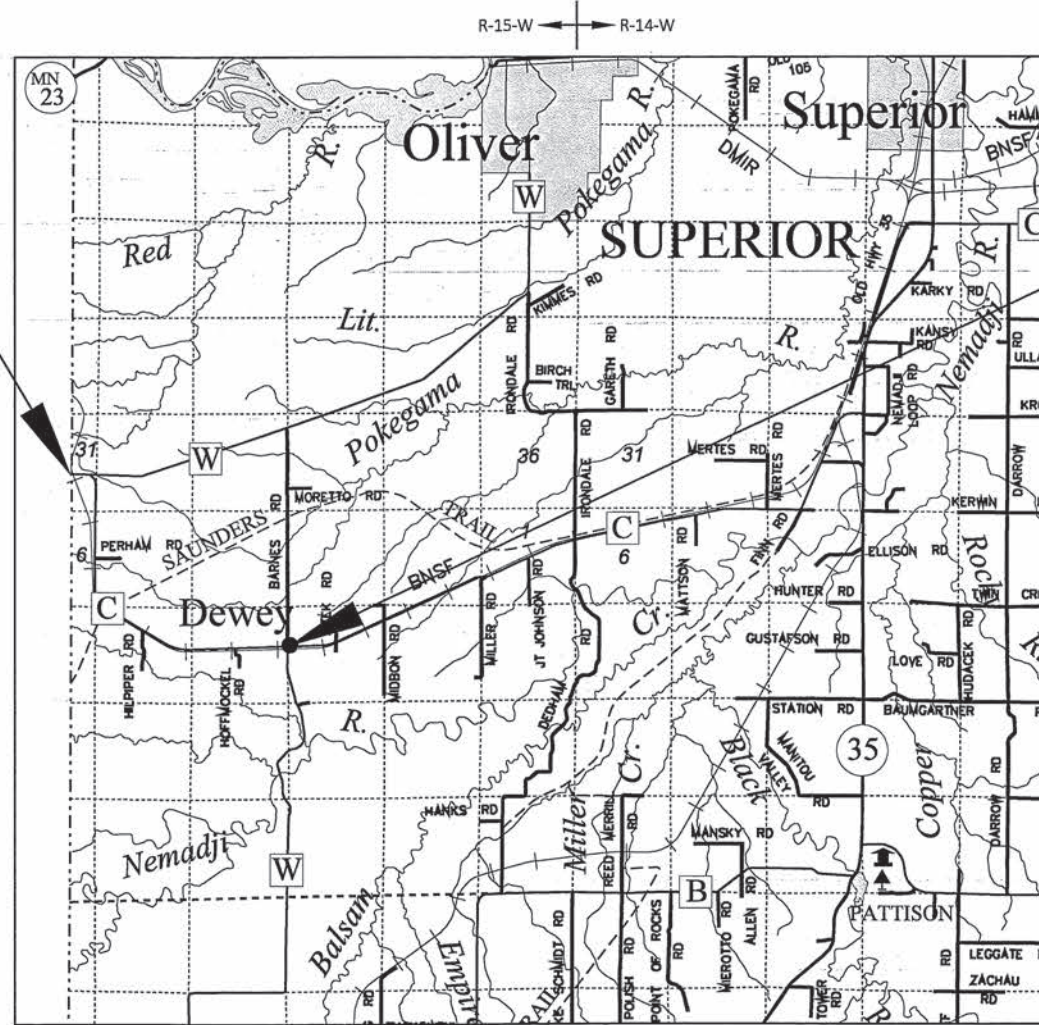
A.A.D.T. (2022)	=	480
A.A.D.T. (2042)	=	530
D.H.V.	=	N/A
D.D.	=	50/50
T.	=	24%
DESIGN SPEED	=	50 MPH
ESALS	=	360,000

CONVENTIONAL SYMBOLS

<p><b>PLAN</b></p> <p>CORPORATE LIMITS </p> <p>PROPERTY LINE </p> <p>LOT LINE </p> <p>LIMITED HIGHWAY EASEMENT </p> <p>EXISTING RIGHT OF WAY </p> <p>PROPOSED OR NEW R/W LINE </p> <p>SLOPE INTERCEPT </p> <p>REFERENCE LINE </p> <p>EXISTING CULVERT </p> <p>PROPOSED CULVERT (Box or Pipe) </p> <p>COMBUSTIBLE FLUIDS </p> <p>MARSH AREA </p> <p>WOODED OR SHRUB AREA </p>	<p><b>PROFILE</b></p> <p>GRADE LINE </p> <p>ORIGINAL GROUND </p> <p>MARSH OR ROCK PROFILE (To be noted as such) </p> <p>SPECIAL DITCH </p> <p>GRADE ELEVATION </p> <p>CULVERT (Profile View) </p> <p><b>UTILITIES</b></p> <p>ELECTRIC </p> <p>FIBER OPTIC </p> <p>GAS </p> <p>SANITARY SEWER </p> <p>STORM SEWER </p> <p>TELEPHONE </p> <p>WATER </p> <p>UTILITY PEDESTAL </p> <p>POWER POLE </p> <p>TELEPHONE POLE </p>
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BEGIN PROJECT  
STA 97+50.00  
Y = 259895.45  
X = 99379.95

END PROJECT  
STA 292+50



LAYOUT  
SCALE 0 2 MI  
TOTAL NET LENGTH OF CENTERLINE = 3.693 MI

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

ACCEPTED FOR  
**DOUGLAS COUNTY**

Date: 01/24/2024 *Jason J. Jackman*  
(Signature and Title of Official)

ORIGINAL PLANS PREPARED BY  
**AYRES**

**WISCONSIN**  
MARK R. PETERSEN  
E - 36785  
EAU CLAIRE  
WI  
PROFESSIONAL ENGINEER

DATE: 1/17/2024  
(Professional Engineer Signature)

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	AYRES ASSOCIATES INC
Designer	AYRES ASSOCIATES INC
Project Manager	PAULA GROOM, PE
Regional Examiner	TOU YANG, PE
Regional Supervisor	JEFFREY OLSON, PE

APPROVED FOR THE DEPARTMENT

DATE: 2/29/2024 *Mark R. Petersen*  
(Signature)

E

GENERAL NOTES

THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA.

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

EXCAVATION BELOW SUBGRADE (EBS) WILL BE MEASURED AND PAID FOR AS EXCAVATION COMMON. THE LOCATION FOR EBS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

EXCAVATION BELOW SUBGRADE (EBS) IS NOT USED TO BALANCE YARDAGE AND IS NOT SHOWN ON THE CROSS SECTIONS BUT IS MEASURED AND PAID FOR AS COMMON EXCAVATION.

THE EXACT LOCATION AND WIDTH OF DRIVEWAY ENTRANCES WILL BE DETERMINED IN THE FIELD BY THE ENGINEER. ALL DRIVEWAYS ARE TO BE REPLACED IN KIND UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR AS SHOWN ON THE PLANS.

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

PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, VERIFY RELATED DRAINAGE INFORMATION IN THE PLAN AND PROVIDE DOCUMENTATION TO THE ENGINEER.

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN MAY BE ADJUSTED BY THE ENGINEER TO FIT FIELD CONDITIONS.

TEMPORARY STORAGE OF ANY EXCAVATED MATERIAL WILL NOT BE PERMITTED IN WETLANDS, FLOODWAY OR FLOODPLAIN OF ANY WETLANDS.

BROKEN CONCRETE CONTAINING REBAR SHALL NOT BE USED AS RIPRAP OR RIPRAP HEAVY.

SEED, INSTALL EROSION MAT, AND FERTILIZE ALL SALVAGED TOPSOILED AREAS WITHIN 7 WORKING DAYS AFTER GRADING WORK IS COMPLETED.

DO NOT APPLY FERTILIZER WITHIN 20 FEET OF A WATER BODY OR WETLAND.

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

EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT APPROXIMATE LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S EROSION CONTROL IMPLEMENTATION PLAN (ECIP) AND APPROVED BY THE ENGINEER. MAINTAIN EROSION CONTROL MEASURES UNTIL SUCH A TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

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

CONTRACTOR WILL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY OPERATIONS, OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.

SAWCUTS, AS SHOWN ON THE PLANS, ARE SUGGESTED LOCATIONS AND MAY BE ADJUSTED AT THE DISCRETION OF THE ENGINEER TO BETTER SUIT FIELD CONDITIONS.

ALL TREES WITHIN THE R/W WILL BE CLEARED AND GRUBBED EXCEPT RESIDENTIAL YARD LOCATIONS. ANY ADDITIONAL TREES OR SHRUBS SHALL NOT BE REMOVED WITHOUT APPROVAL BY THE ENGINEER. FINAL LIMITS OF FENCE REMOVAL TO BE DETERMINED BY THE ENGINEER.

STATIONING, DISTANCES, AND OFFSETS FOR SIGNS SHOWN IN THE PLANS ARE APPROXIMATE AND THE FINAL LOCATION OF SIGNS ARE TO BE DETERMINED BY THE ENGINEER.

THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING MOTORISTS AND PEDESTRIANS THAT MAY ENTER THE WORK ZONE FROM POSSIBLE HAZARD.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD.

UTILITY CONTACTS

EAST CENTRAL ENERGY - ELECTRICTY  
2200 FINLAND AVENUE  
PO BOX 89  
FINLAYSON, MN 55735  
ATTN: JAKE KLOCKE  
OFFICE: 763-691-2041  
Jake.Klocke@ecemn.com

ENBRIDGE - GAS  
10 BARDON AVENUE  
SUPERIOR, WI 54880  
ATTN: ERIC STENSON  
OFFICE: 218-390-5031  
eric.stenson@enbridge.com

LUMEN - COMMUNICATION LINE  
135 NORTH 21ST STREET  
SUPERIOR, WI 54880  
OFFICE: RUSS VANCE  
OFFICE: 715-718-3165  
MOBILE: 715-919-8003  
Russel.Vance@lumen.com

NORTHERN NATURAL GAS  
8101 BIRCHWOOD COURT, SUITE F  
JOHNSTON, IA 50131  
ATTN: BILL MILLER  
OFFICE:  
William.Miller@NNGco.com

SPECTRUM - COMMUNICATION LINE  
640 GARFIELD AVENUE  
DULUTH, MN 55802  
ATTN: CHAD LAWRENCE  
OFFICE: 218-529-8042  
Chad.Lawrence@charter.com

\* DENOTES NOT A MEMBER OF DIGGERS HOTLINE



DNR CONTACT

DNR NORTHERN REGION HQ  
810 WEST MAPLE STREET  
SPOONER, WI 54801  
ATTN: AMY CRONK  
715-520-3976  
amy.cronk@wisconsin.gov

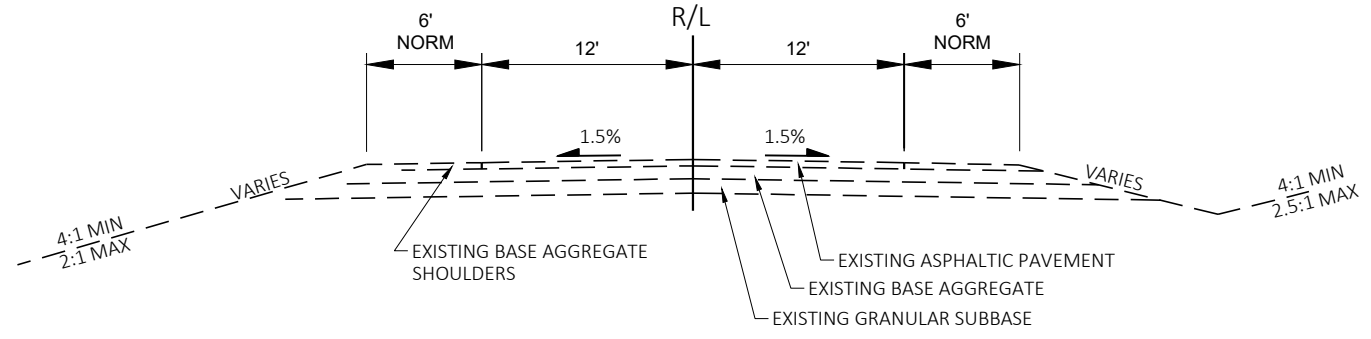
DESIGN CONTACT

AYRES ASSOCIATES INC  
3433 OAKWOOD HILLS PARKWAY  
EAU CLAIRE, WI 54701  
ATTN: MARK PETERSEN  
715-834-3161  
petersenm@ayresassociates.com

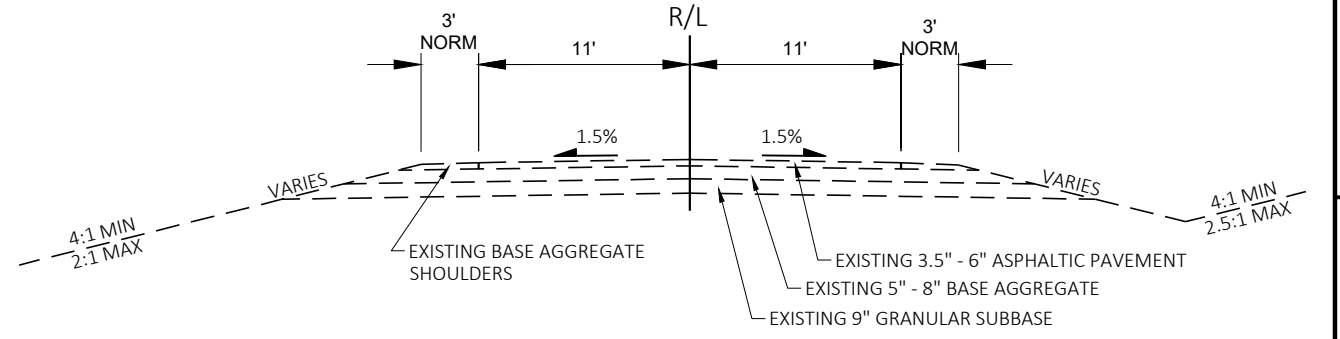
RAILROAD CONTACT

WISDOT NORTHWEST REGION RAILROAD COORDINATOR  
1701 NORTH 4TH STREET  
SUPERIOR, WI 54880  
ATTN: ANNA DAVEY  
715-392-7960  
anna.davey@dot.wi.gov

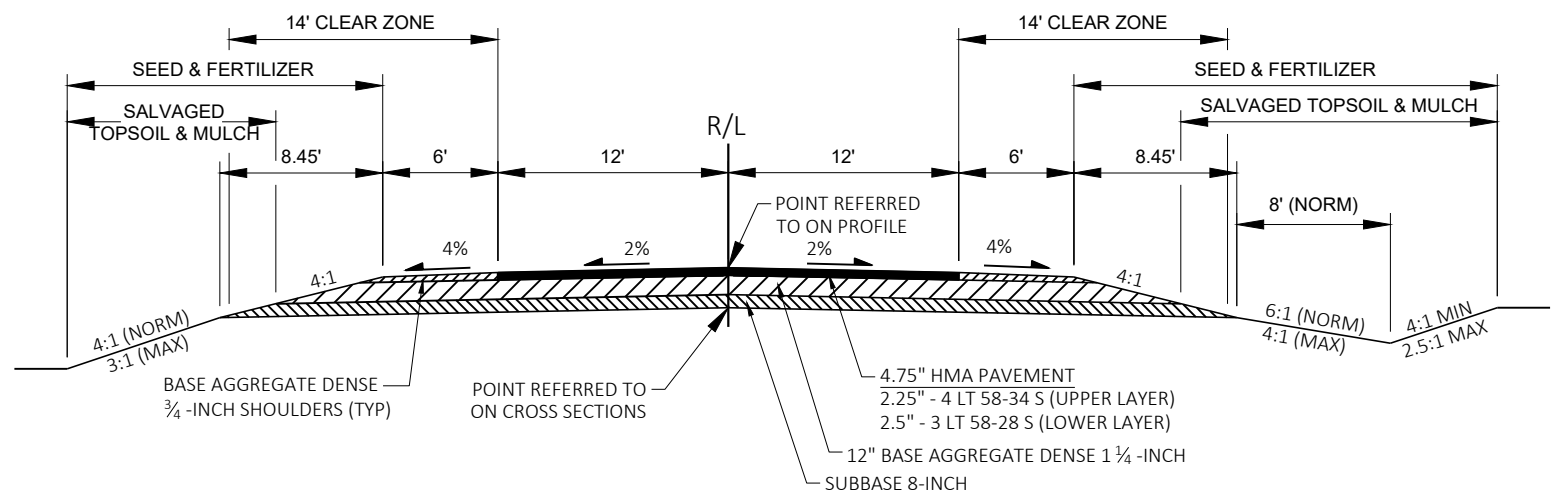
PROJECT NO: 8758-00-72	HWY: CTH C	COUNTY: DOUGLAS	GENERAL NOTES	SHEET	E
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**EXISTING TYPICAL SECTION**  
STA 97+50.00 - STA 100+38.30

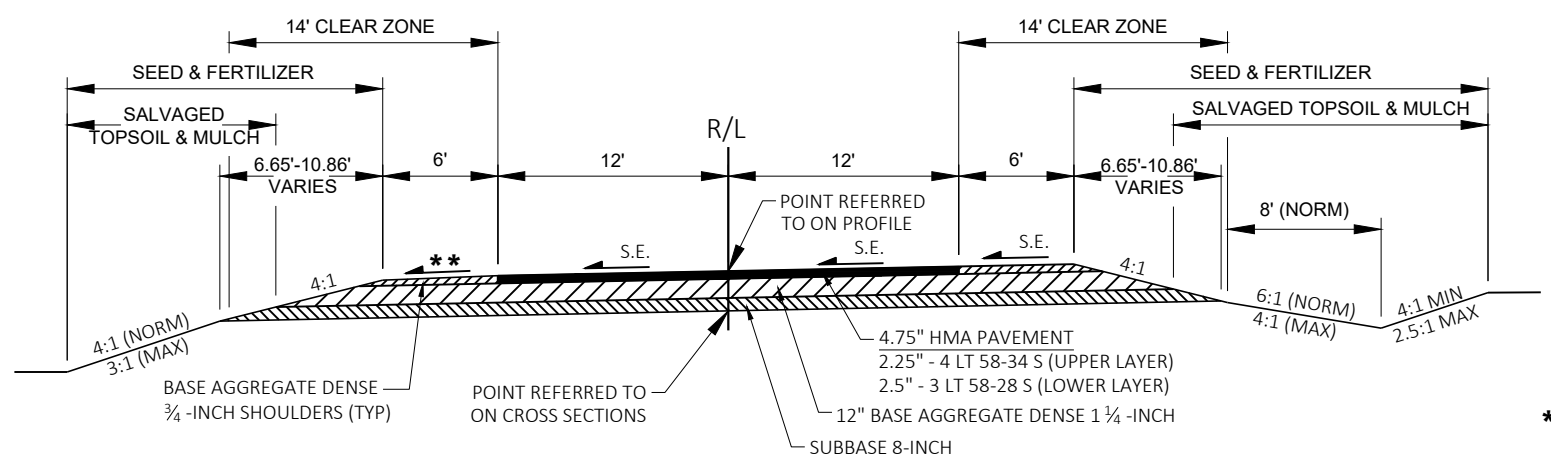


**EXISTING TYPICAL SECTION**  
STA 100+38.30 - STA 292+50



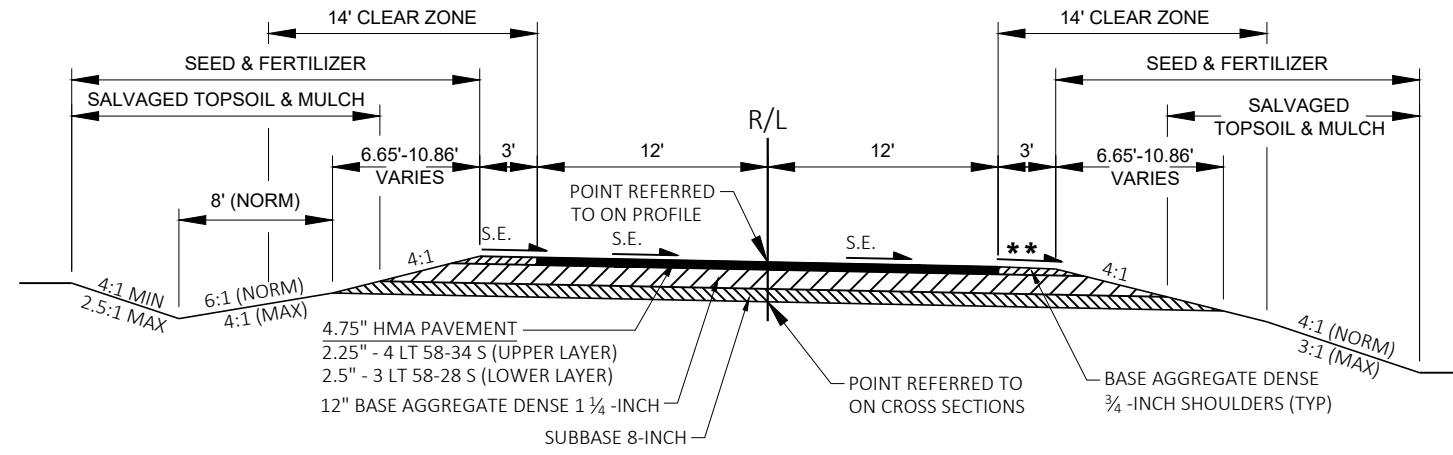
**FINISHED TYPICAL SECTION - CTH C**  
STA 97+50.00 - STA 107+60.16  
STA 116+58.84 - STA 173+11.61  
STA 184+39.22 - STA 189+91.74  
STA 193+21.47 - STA 222+80.83  
STA 237+26.40 - STA 292+50.00

SEE SDD "PAVEMENT DETAILS FOR RAILROAD APPROACH" FOR ADDITIONAL TYPICAL SECTION INFORMATION AT THE RAILROAD CROSSING. CROWN TRANSITION 50'.



**FINISHED SUPERELEVATED TYPICAL SECTION - CTH C**  
STA 107+60.16 - STA 116+58.84  
STA 173+11.61 - STA 184+39.22  
STA 189+91.74 - STA 193+21.47  
STA 222+80.83 - STA 237+26.40

\*\* THE LOW SIDE SHOULDER SLOPE ON SUPERELEVATED SECTIONS EQUALS THE SUPERELEVATION RATE WHEN THE SUPERELEVATION RATE IS GREATER THAN 4%. IF THE SUPERELEVATION RATE IS LESS THAN OR EQUAL TO 4%, THE LOW SIDE SHOULDER SLOPE IS 4%. HIGH SIDE SHOULDER SLOPE ON SUPERELEVATED SECTIONS EQUALS THE SUPERELEVATION RATE. SEE SUPERELEVATION TABLES FOR SE.



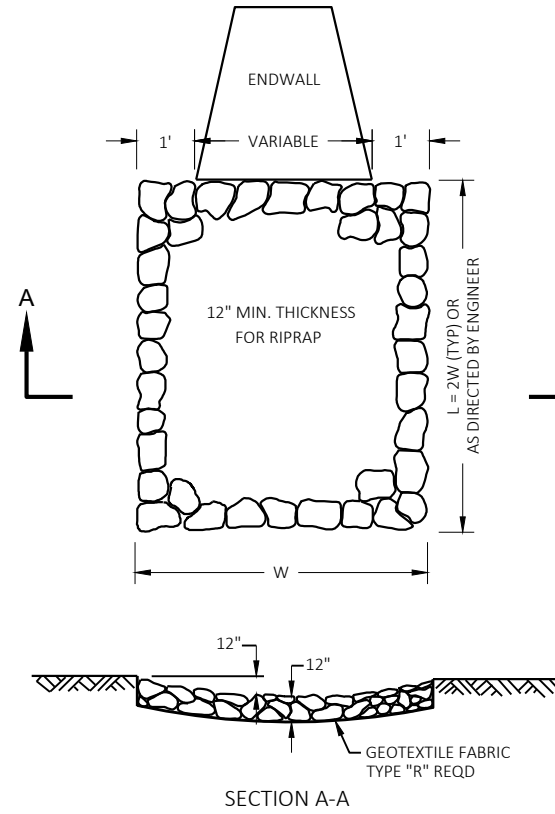
**FINISHED SUPERELEVATED TYPICAL SECTION - CTH W**

\*\* THE LOW SIDE SHOULDER SLOPE ON SUPERELEVATED SECTIONS EQUALS THE SUPERELEVATION RATE WHEN THE SUPERELEVATION RATE IS GREATER THAN 4%. IF THE SUPERELEVATION RATE IS LESS THAN OR EQUAL TO 4%, THE LOW SIDE SHOULDER SLOPE IS 4%. HIGH SIDE SHOULDER SLOPE ON SUPERELEVATED SECTIONS EQUALS THE SUPERELEVATION RATE. SEE SUPERELEVATION TABLES FOR SE.

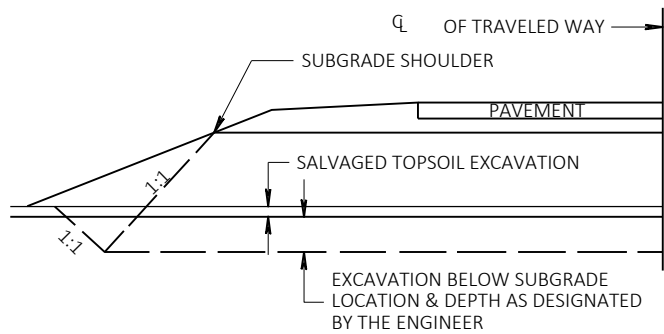
## RUNOFF COEFFICIENT TABLE

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

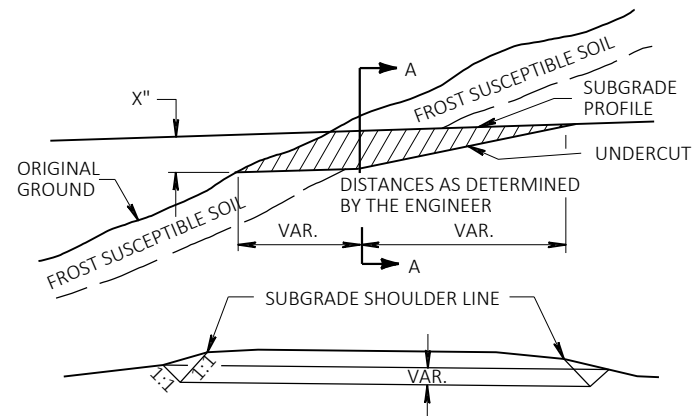
TOTAL PROJECT AREA = 46.05 ACRES  
 TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 35.17 ACRES



**RIPRAP TREATMENT AT CULVERTS**

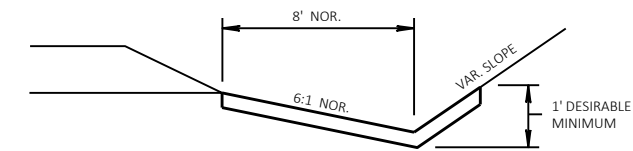


**DETAIL FOR EXCAVATION BELOW SUBGRADE**

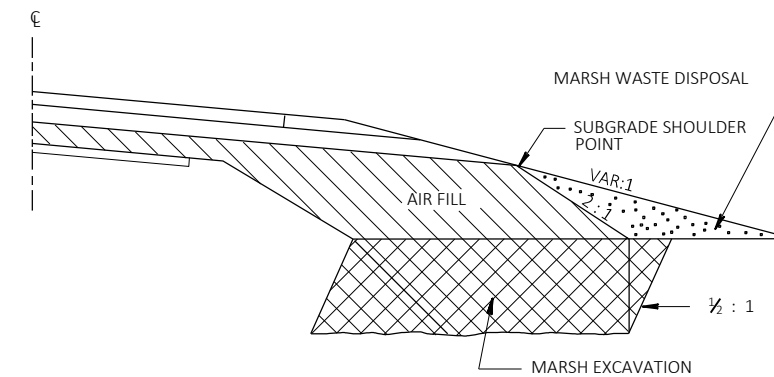


SECTION A-A  
 CROSS SECTION SHOWING UNDERCUT  
**DETAIL FOR EXCAVATION BELOW  
 SUBGRADE AT CUTS**

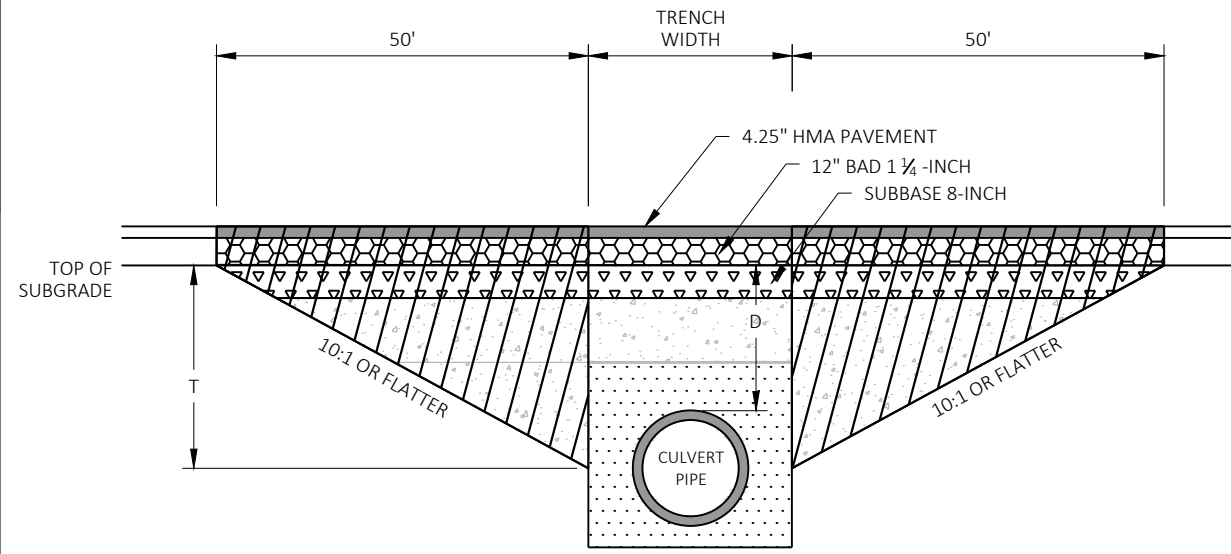
NOTES: EXACT LOCATIONS AND EXTENT OF E.B.S. SECTIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.  
 E.B.S. AREA TO BE BACKFILLED WITH MATERIAL ACCEPTABLE TO THE ENGINEER  
 BACKFILL MUST BE HOMOGENEOUS WITH ADJOINING FILL MATERIAL.  
 THE FILL SECTION WITHIN 100' OF THE MOUTH OF THE CUT MUST BE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



**EROSION MAT DETAIL FOR DITCHES**



**TYPICAL MARSH EXCAVATION FOR RECONSTRUCTION**

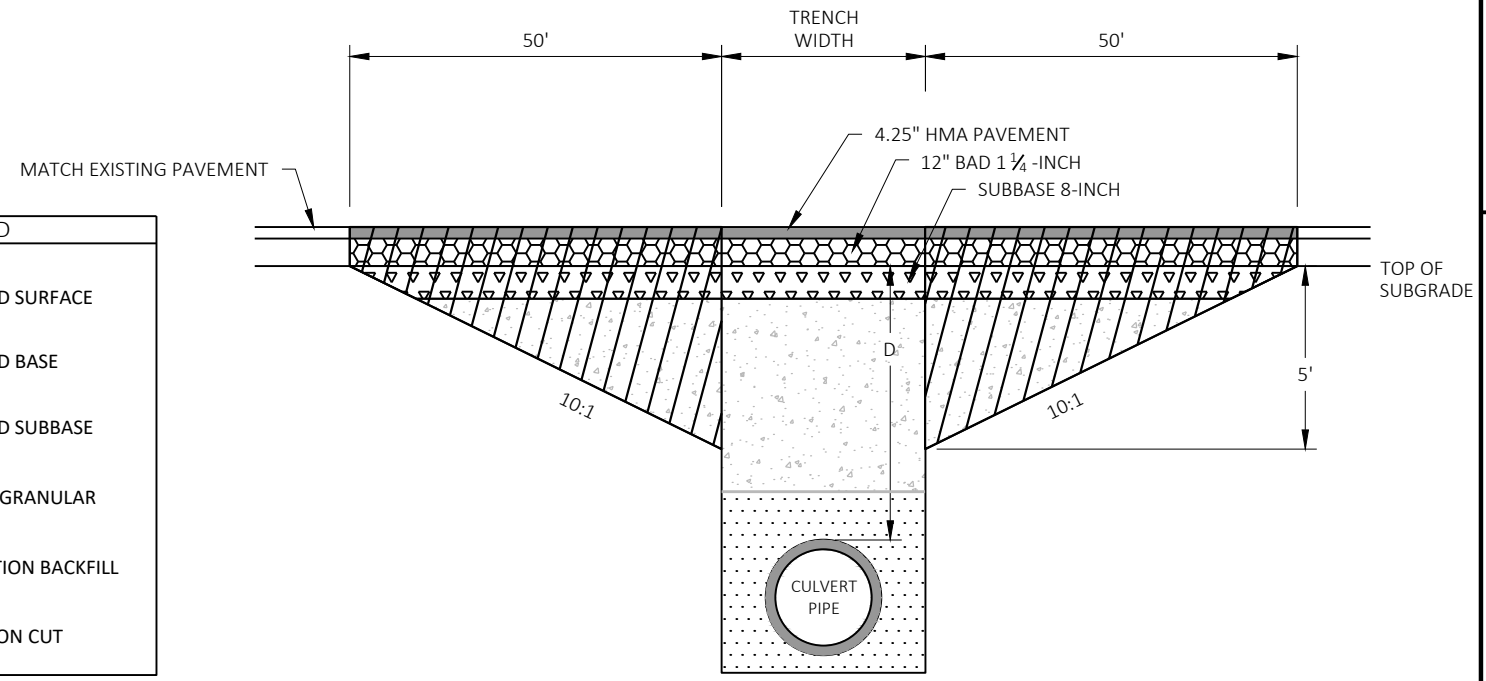


DEPTH D < 6 FT

TRANSITION CUT DEPTH (T) = THE LESSER OF DEPTH TO CENTER OF PIPE OR 5 FT. DO NOT EXTEND TRANSITION CUT BELOW HORIZONTAL CENTER OF PIPE.

LEGEND

	PROPOSED SURFACE
	PROPOSED BASE
	PROPOSED SUBBASE
	BACKFILL GRANULAR GRADE 2
	FOUNDATION BACKFILL
	TRANSITION CUT



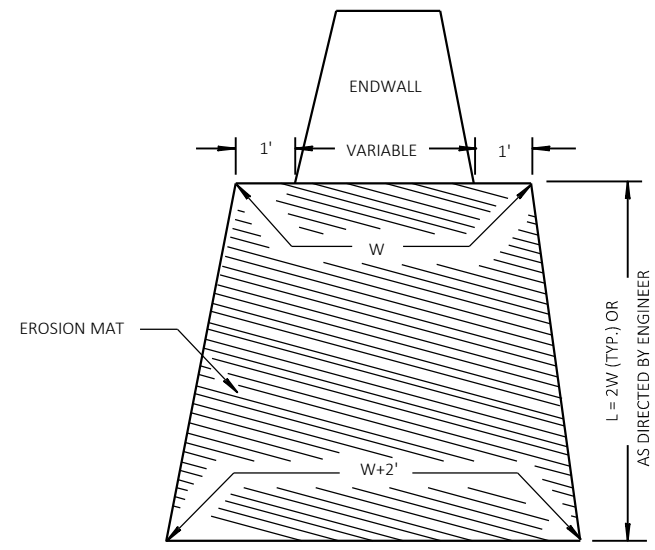
DEPTH D ≥ 6 FT

**CULVERT PIPE TRANSITION**

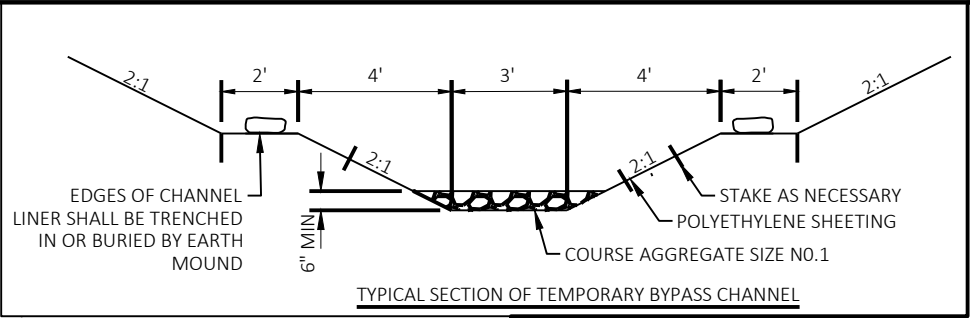
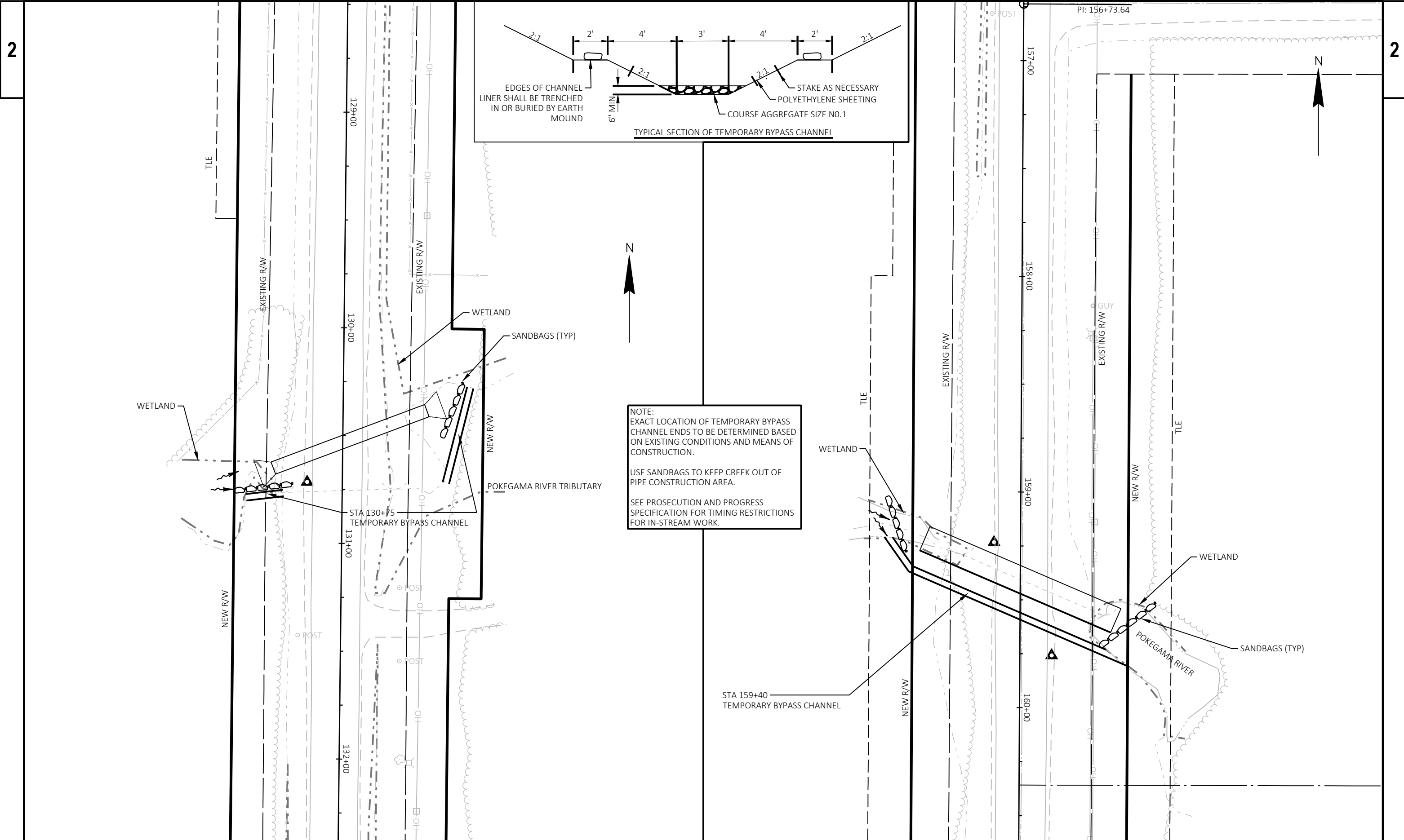
- STA 99+65
- STA 116+19
- STA 122+93
- STA 130+75
- STA 159+40
- STA 166+20
- STA 276+08

**NOTES**

- TRANSITION CUT IS PAID AS COMMON EXCAVATION.
- TRANSITION CUT WIDTH IS FROM SUBGRADE SHOULDER POINT TO SUBGRADE SHOULDER POINT.
- FINAL PAVEMENT DESIGN SHOWN. BASE AGGREGATE MAY BE USED TO KEEP OPEN TO LOCAL TRAFFIC.



**EROSION MAT TREATMENT AT CULVERTS**



NOTE:  
 EXACT LOCATION OF TEMPORARY BYPASS CHANNEL ENDS TO BE DETERMINED BASED ON EXISTING CONDITIONS AND MEANS OF CONSTRUCTION.  
 USE SANDBAGS TO KEEP CREEK OUT OF PIPE CONSTRUCTION AREA.  
 SEE PROSECUTION AND PROGRESS SPECIFICATION FOR TIMING RESTRICTIONS FOR IN-STREAM WORK.



SEE SDD "BARRICADES AND SIGNS FOR MAINLINE, DETOUR, ON RAMP, OFF RAMP CLOSURES AND ADVANCED WIDTH RESTRICTION, SHEET B" FOR ADDITIONAL INFORMATION.

WRENSHALL, MINNESOTA  
(SILVER BROOK TOWNSHIP)

SUPERIOR, WISCONSIN

MINNESOTA  
WISCONSIN

RAILROAD CROSSING  
ID: 067768H

CARLTON COUNTY 4

CTH C

CTH W

ROAD CLOSED  
R11-2  
48"x30"

ROAD CLOSED  
R11-2  
48"x30"

ROAD CLOSED  
R11-2  
48"x30"

CLOSE CTH C/CARLTON COUNTY 4 TO TRAFFIC COMPLETELY AT RAILROAD CROSSING FOR CONSTRUCTION OF CROSSING AND APPROACHES TO CROSSING.

ROAD CLOSED TO THRU TRAFFIC  
R11-4  
60"x30"

BURLINGTON NORTHERN SANTA FE





WRENSHALL, MINNESOTA  
(SILVER BROOK TOWNSHIP)

SUPERIOR, WISCONSIN

MINNESOTA  
WISCONSIN

SLOPE INTERCEPT

NOTE: CONFIRM FINAL SIGNAL  
LOCATION WITH RAILROAD

EXISTING R/W

10:1 TAPER (TYP)

70°

11.1'

15.0'

22.3'

15.0'

12.9'

12.0'

6.0'

99+00

CARLTON COUNTY 4

100+00

101+00

CTH C

12.0'

6.0'

22.3'

10:1 TAPER (TYP)

REMOVE EXISTING CULVERT PIPE (STA 99+98)  
STA 99+65 CULVERT PIPE CLASS III, NON-METAL

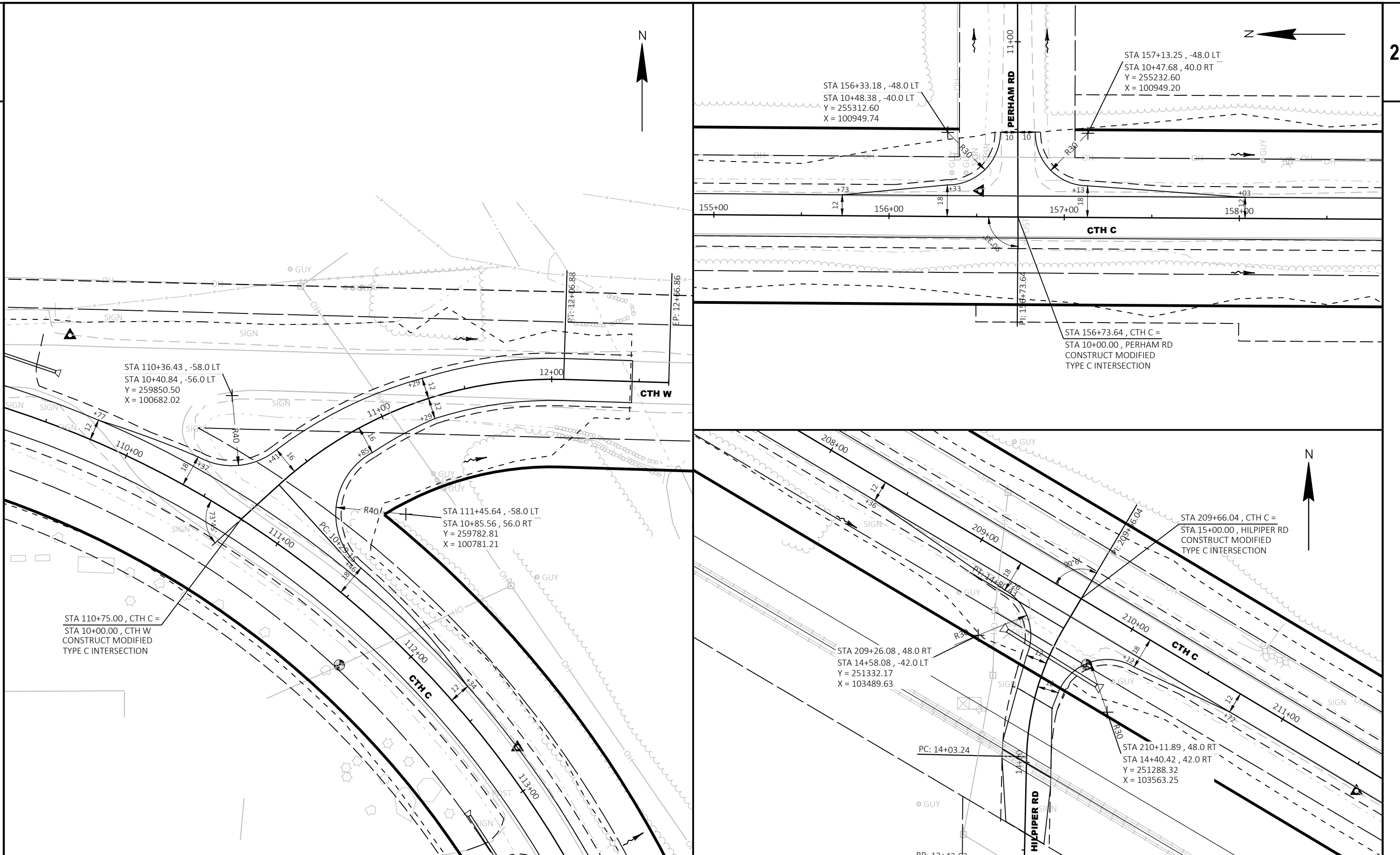
RAILROAD CROSSING  
ID: 067768H

EXISTING R/W

SLOPE INTERCEPT

BURLINGTON NORTHERN SANTA FE

PROPOSED R/W



PROJECT NO: 8758-00-72

HWY: CTH C

COUNTY: DOUGLAS

INTERSECTION DETAIL

SHEET

E



STA 262+65.19, CTH C =  
STA 20+00.00, HOFFMÖCKEL RD  
CONSTRUCT MODIFIED  
TYPE C INTERSECTION

STA 262+12.47, 58.0 RT  
STA 19+41.36, -52.0 LT  
Y = 250337.83  
X = 108544.30

STA 263+16.58, 58.0 RT  
STA 19+42.54, 52.0 RT  
Y = 250341.06  
X = 108648.26

BP: 18+22.62

HOFFMÖCKEL RD

CTH C



STA 290+41.49, -58.0 LT  
STA 25+56.35, -52.0 LT  
Y = 250538.09  
X = 111368.50

STA 291+45.34, -58.0 LT  
STA 25+59.54, 52.0 RT  
Y = 250540.96  
X = 111472.51

STA 290+37.74, 58.0 RT  
STA 24+40.29, -52.0 LT  
Y = 250422.03  
X = 111368.16

STA 290+91.64, CTH C =  
STA 25+00.00, CTH W/BARNES RD  
CONSTRUCT MODIFIED  
TYPE C INTERSECTION

STA 291+41.98, 58.0 RT  
STA 24+43.49, 52.0 RT  
Y = 250424.91  
X = 111472.17

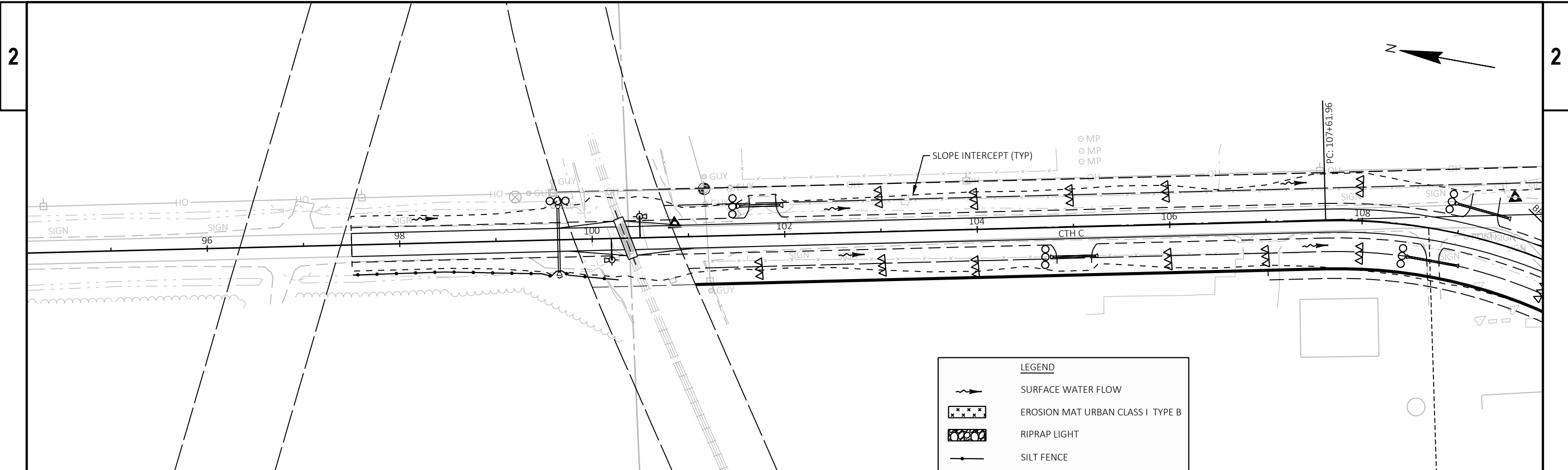
EP: 26+95.40

BARNES RD

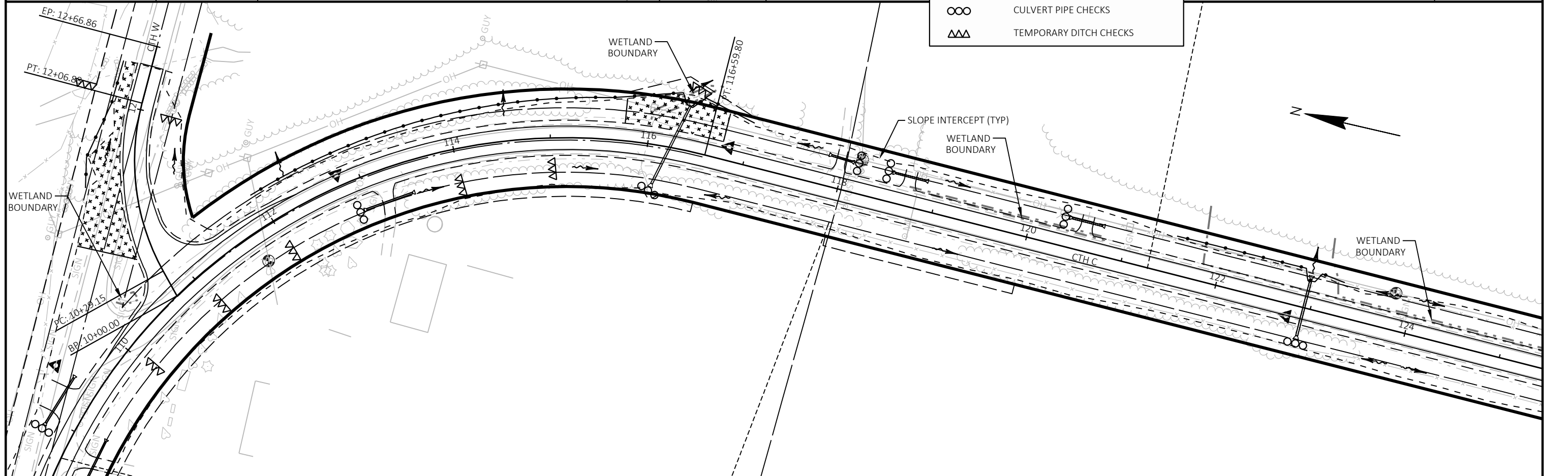
CTH W

BP: 22+92.18

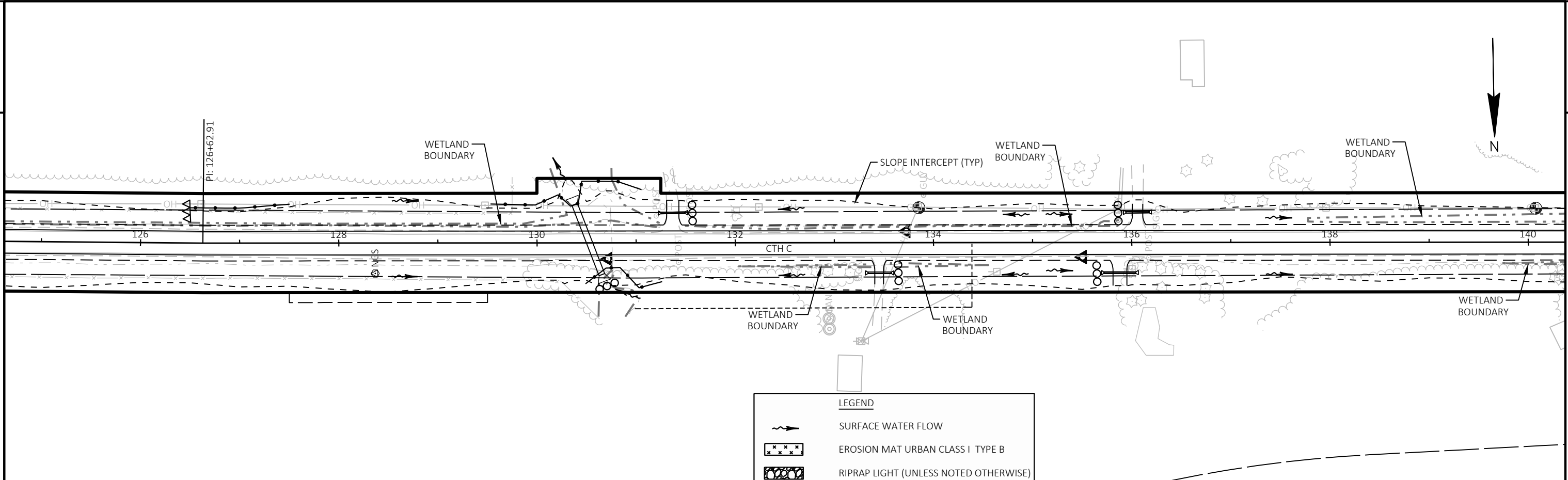
GUY



LEGEND	
	SURFACE WATER FLOW
	EROSION MAT URBAN CLASS I TYPE B
	RIPRAP LIGHT
	SILT FENCE
	CULVERT PIPE CHECKS
	TEMPORARY DITCH CHECKS

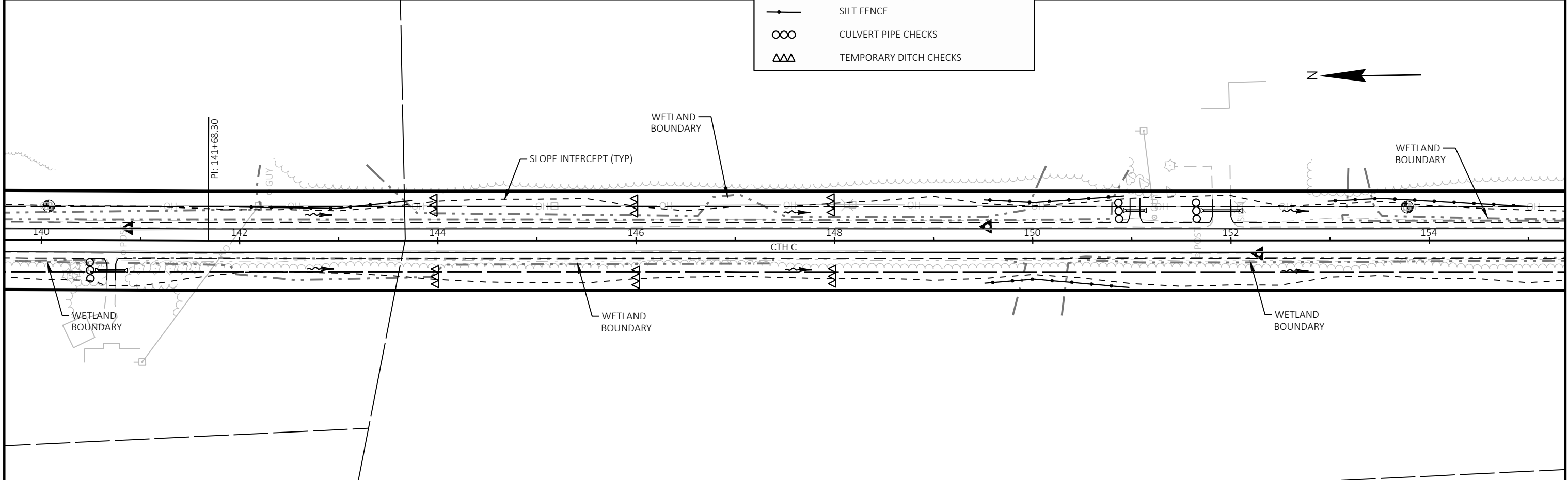


PROJECT NO: 8758-00-72	HWY: CTH C	COUNTY: DOUGLAS	EROSION CONTROL	SHEET	E
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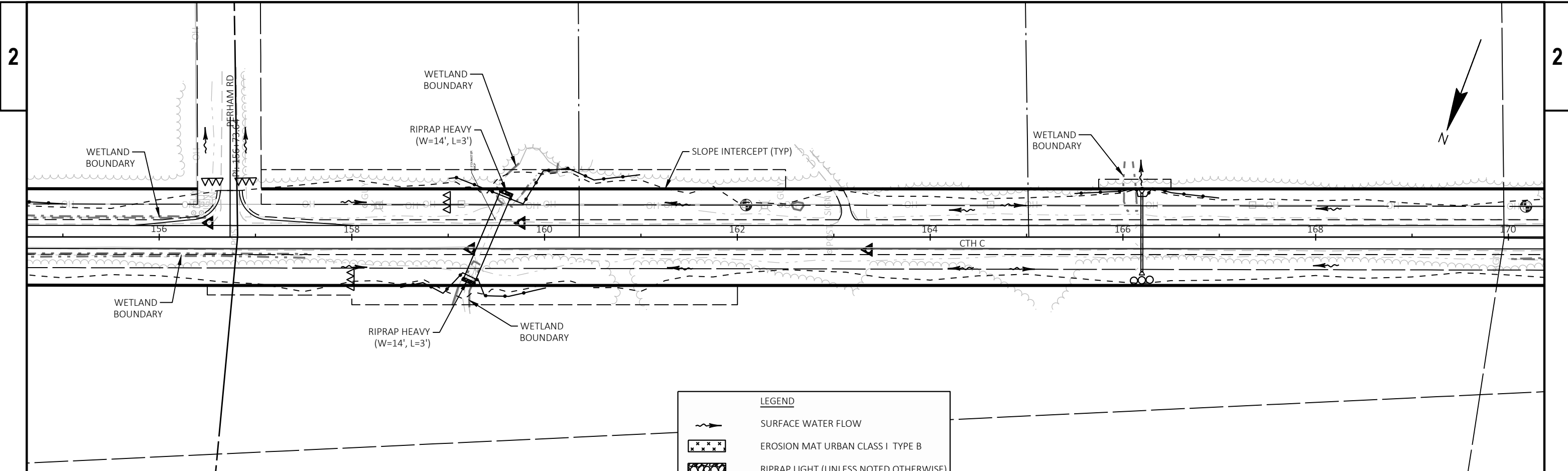


**LEGEND**

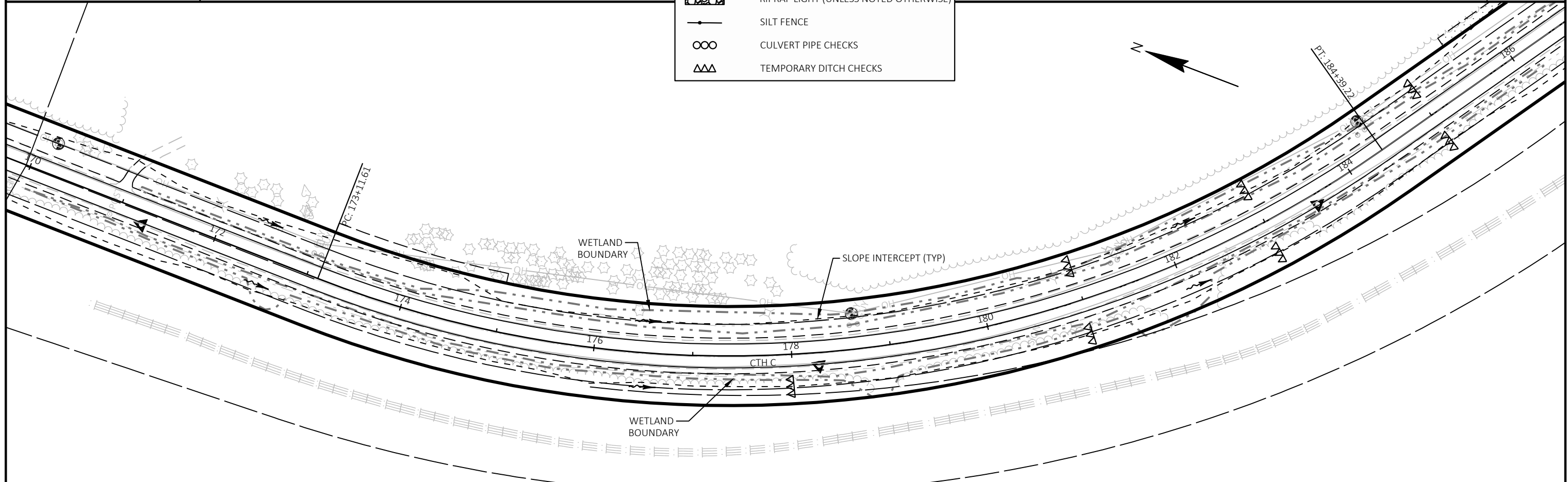
- SURFACE WATER FLOW
- EROSION MAT URBAN CLASS I TYPE B
- RIPRAP LIGHT (UNLESS NOTED OTHERWISE)
- SILT FENCE
- CULVERT PIPE CHECKS
- TEMPORARY DITCH CHECKS

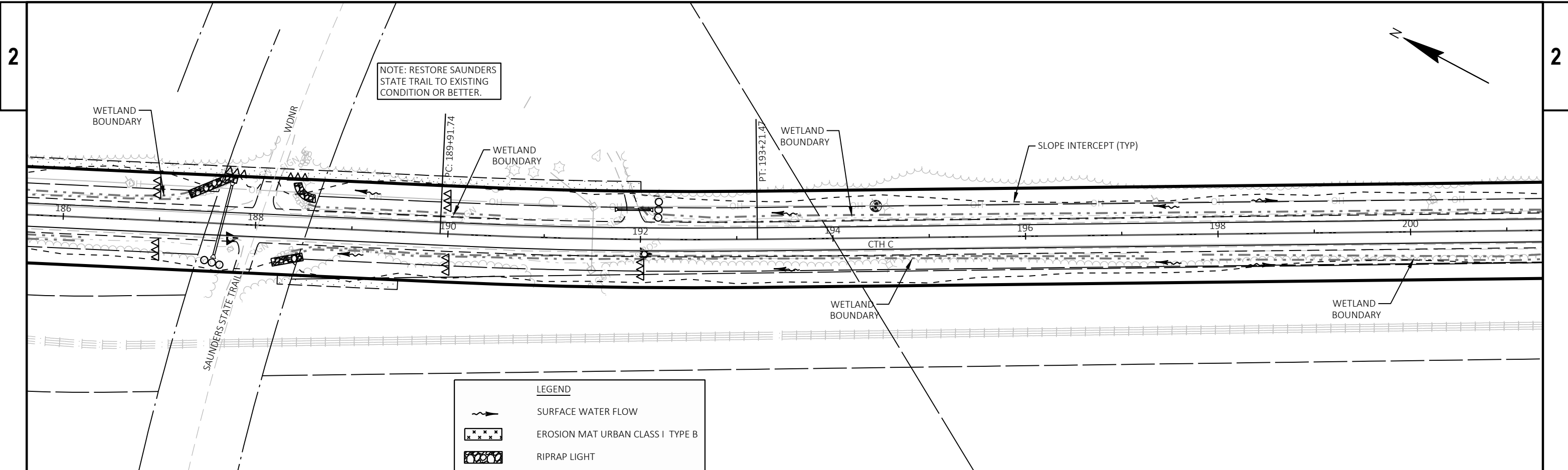


PROJECT NO: 8758-00-72	HWY: CTH C	COUNTY: DOUGLAS	EROSION CONTROL	SHEET	<b>E</b>
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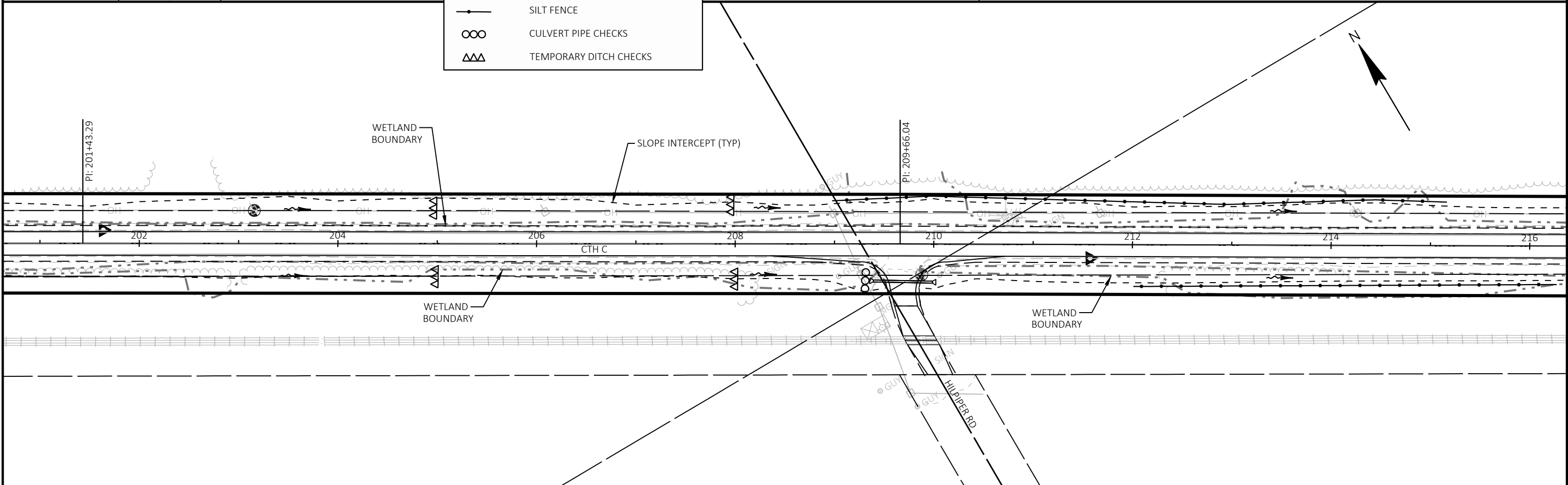
LEGEND	
	SURFACE WATER FLOW
	EROSION MAT URBAN CLASS I TYPE B
	RIPRAP LIGHT (UNLESS NOTED OTHERWISE)
	SILT FENCE
	CULVERT PIPE CHECKS
	TEMPORARY DITCH CHECKS



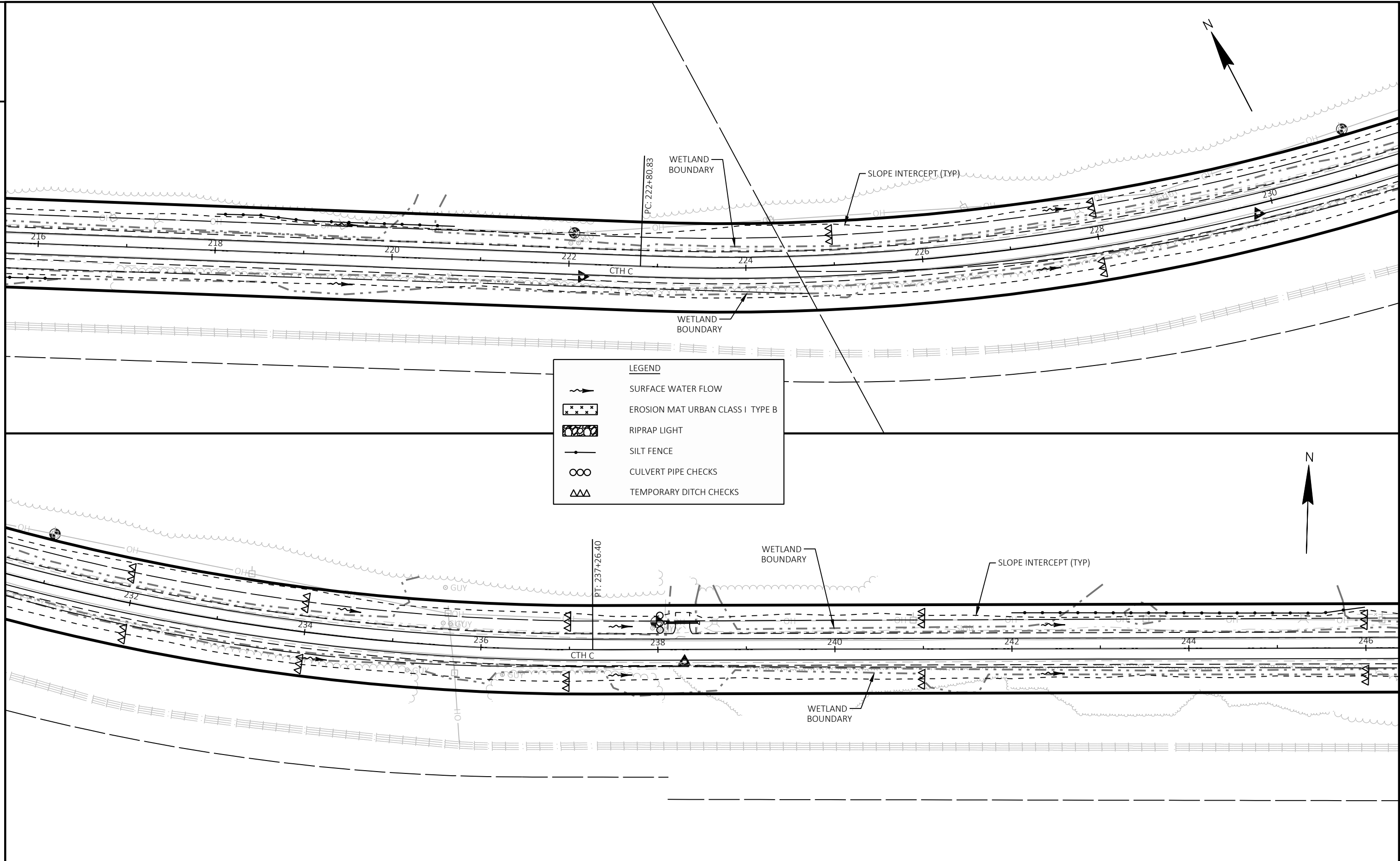


**LEGEND**

	SURFACE WATER FLOW
	EROSION MAT URBAN CLASS I TYPE B
	RIPRAP LIGHT
	SILT FENCE
	CULVERT PIPE CHECKS
	TEMPORARY DITCH CHECKS

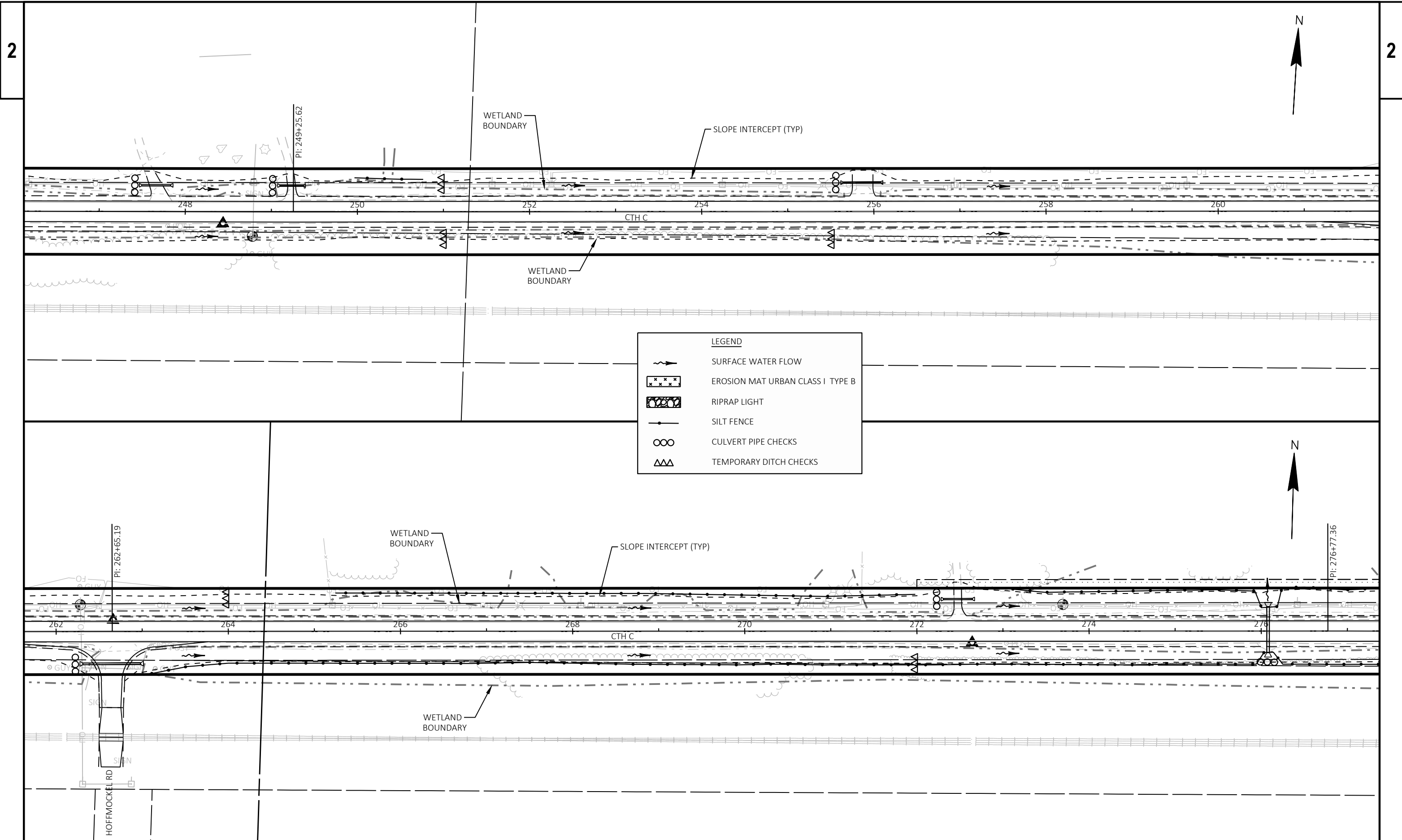


PROJECT NO: 8758-00-72	HWY: CTH C	COUNTY: DOUGLAS	EROSION CONTROL	SHEET	<b>E</b>
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LEGEND	
	SURFACE WATER FLOW
	EROSION MAT URBAN CLASS I TYPE B
	RIPRAP LIGHT
	SILT FENCE
	CULVERT PIPE CHECKS
	TEMPORARY DITCH CHECKS

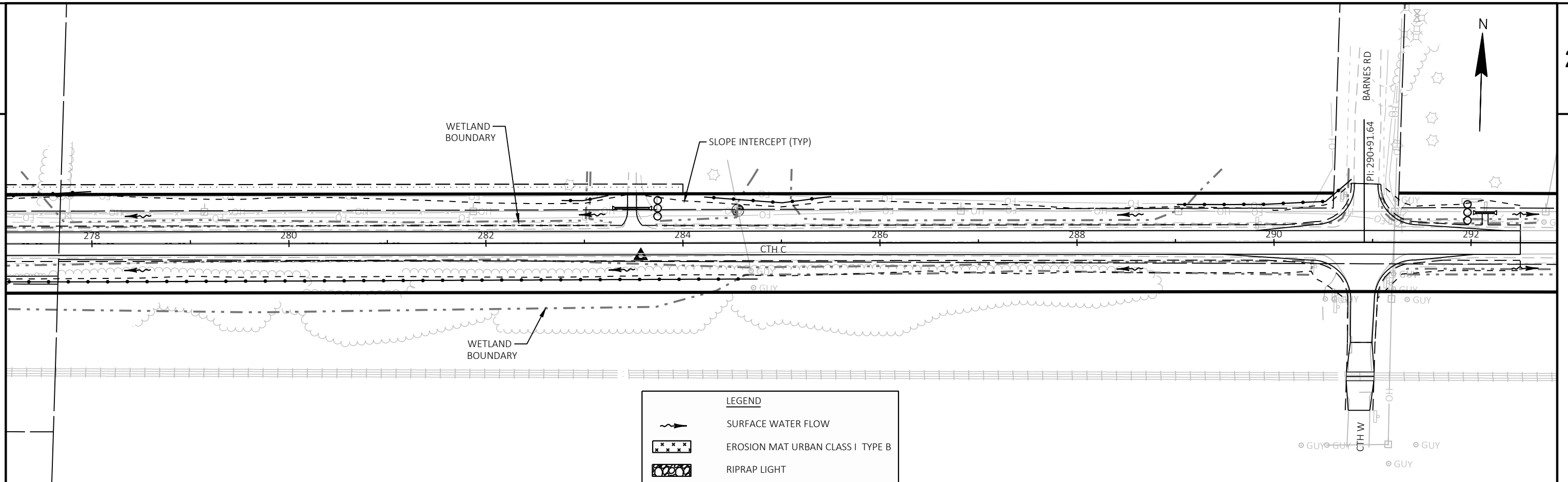




**LEGEND**

	SURFACE WATER FLOW
	EROSION MAT URBAN CLASS I TYPE B
	RIPRAP LIGHT
	SILT FENCE
	CULVERT PIPE CHECKS
	TEMPORARY DITCH CHECKS

PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      EROSION CONTROL      SHEET      E



LEGEND	
	SURFACE WATER FLOW
	EROSION MAT URBAN CLASS I TYPE B
	RIPRAP LIGHT
	SILT FENCE
	CULVERT PIPE CHECKS
	TEMPORARY DITCH CHECKS

TRAFFIC CONTROL NOTES:

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD).

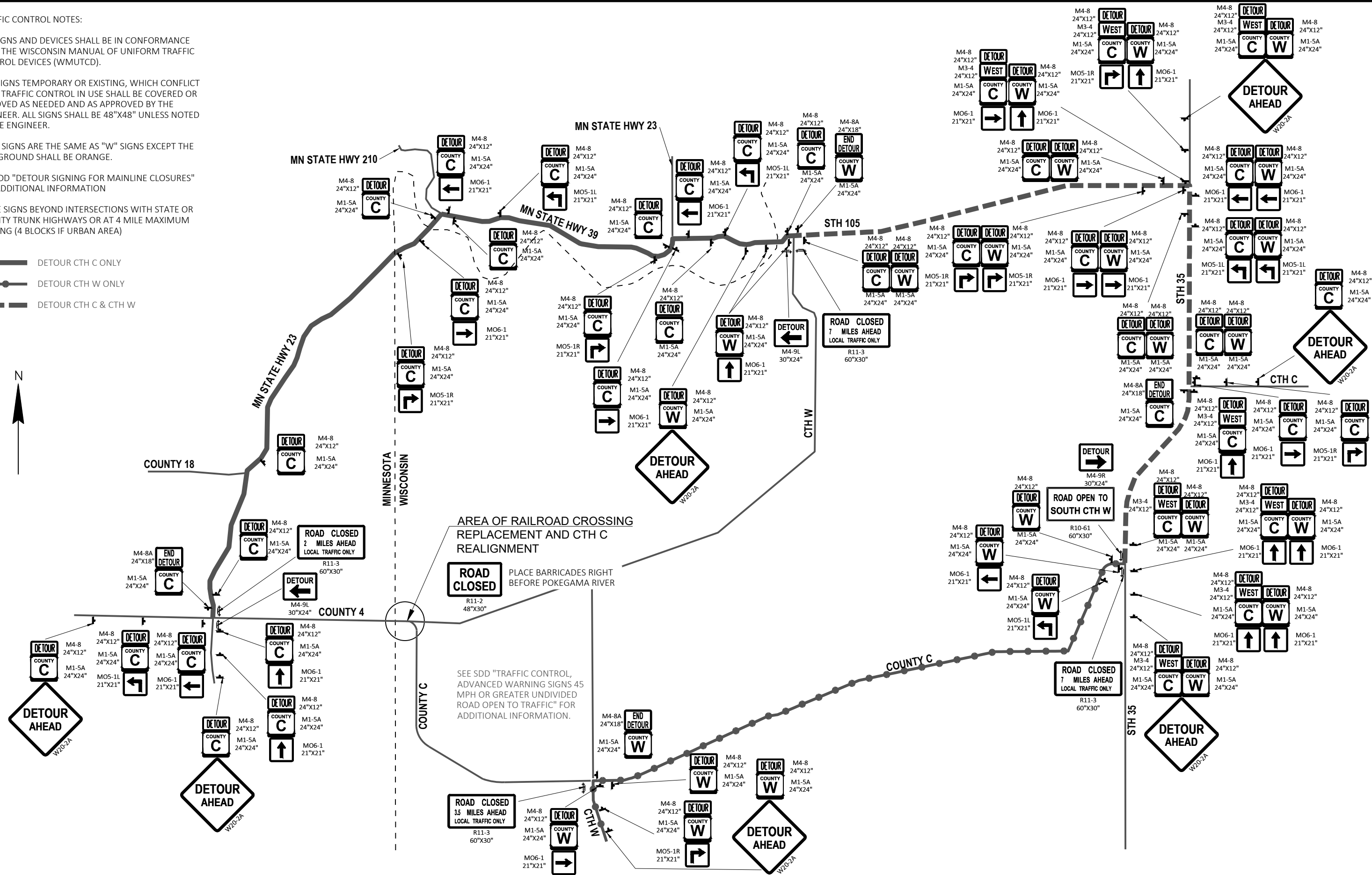
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL IN USE SHALL BE COVERED OR REMOVED AS NEEDED AND AS APPROVED BY THE ENGINEER. ALL SIGNS SHALL BE 48"X48" UNLESS NOTED BY THE ENGINEER.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND SHALL BE ORANGE.

SEE SDD "DETOUR SIGNING FOR MAINLINE CLOSURES" FOR ADDITIONAL INFORMATION

PLACE SIGNS BEYOND INTERSECTIONS WITH STATE OR COUNTY TRUNK HIGHWAYS OR AT 4 MILE MAXIMUM SPACING (4 BLOCKS IF URBAN AREA)

- DETOUR CTH C ONLY
- DETOUR CTH W ONLY
- DETOUR CTH C & CTH W



Estimate Of Quantities

8758-00-72

Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	155.000	155.000
0004	201.0205	Grubbing	STA	155.000	155.000
0006	203.0100	Removing Small Pipe Culverts	EACH	22.000	22.000
0008	203.0220	Removing Structure (structure) 01. 159+40	EACH	1.000	1.000
0010	204.0110	Removing Asphaltic Surface	SY	6,670.000	6,670.000
0012	204.0170	Removing Fence	LF	5,070.000	5,070.000
0014	204.0215	Removing Catch Basins	EACH	1.000	1.000
0016	204.0265	Abandoning Wells	EACH	1.000	1.000
0018	205.0100	Excavation Common	CY	61,157.000	61,157.000
0020	205.0400	Excavation Marsh	CY	3,000.000	3,000.000
0022	208.0100	Borrow	CY	3,000.000	3,000.000
0024	209.2100	Backfill Granular Grade 2	CY	20,750.000	20,750.000
0026	213.0100	Finishing Roadway (project) 01. 8758-00-72	EACH	1.000	1.000
0028	305.0110	Base Aggregate Dense 3/4-Inch	TON	7,803.000	7,803.000
0030	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	71,494.000	71,494.000
0032	350.0125	Subbase 8-Inch	SY	103,154.000	103,154.000
0034	455.0605	Tack Coat	GAL	2,755.000	2,755.000
0036	460.2000	Incentive Density HMA Pavement	DOL	9,430.000	9,430.000
0038	460.5223	HMA Pavement 3 LT 58-28 S	TON	7,794.000	7,794.000
0040	460.5244	HMA Pavement 4 LT 58-34 S	TON	6,939.000	6,939.000
0042	520.1018	Apron Endwalls for Culvert Pipe 18-Inch	EACH	44.000	44.000
0044	520.1024	Apron Endwalls for Culvert Pipe 24-Inch	EACH	16.000	16.000
0046	520.3318	Culvert Pipe Class III-A 18-Inch	LF	738.000	738.000
0048	520.3324	Culvert Pipe Class III-A 24-Inch	LF	170.000	170.000
0050	520.3424	Culvert Pipe Class III-A Non-metal 24-Inch	LF	374.000	374.000
0052	521.1072	Apron Endwalls for Culvert Pipe Steel 72-Inch	EACH	2.000	2.000
0054	521.6172	Culvert Pipe Corrugated Steel Aluminum Coated 72-Inch	LF	72.000	72.000
0056	522.0436	Culvert Pipe Reinforced Concrete Class IV 36-Inch	LF	54.000	54.000
0058	522.1036	Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	EACH	2.000	2.000
0060	527.0244	Pipe Structural Plate 144-Inch	LF	96.000	96.000
0062	606.0100	Riprap Light	CY	40.000	40.000
0064	606.0300	Riprap Heavy	CY	4.000	4.000
0066	618.0100	Maintenance and Repair of Haul Roads (project) 01. 8758-00-72	EACH	1.000	1.000
0068	619.1000	Mobilization	EACH	1.000	1.000
0070	624.0100	Water	MGAL	2,379.000	2,379.000
0072	625.0500	Salvaged Topsoil	SY	69,100.000	69,100.000
0074	627.0200	Mulching	SY	84,375.000	84,375.000
0076	628.1504	Silt Fence	LF	10,015.000	10,015.000
0078	628.1520	Silt Fence Maintenance	LF	30,045.000	30,045.000
0080	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000
0082	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000
0084	628.2008	Erosion Mat Urban Class I Type B	SY	1,160.000	1,160.000
0086	628.7504	Temporary Ditch Checks	LF	950.000	950.000
0088	628.7555	Culvert Pipe Checks	EACH	90.000	90.000
0090	629.0210	Fertilizer Type B	CWT	75.000	75.000
0092	630.0120	Seeding Mixture No. 20	LB	3,184.000	3,184.000
0094	630.0140	Seeding Mixture No. 40	LB	100.000	100.000
0096	630.0200	Seeding Temporary	LB	3,184.000	3,184.000
0098	630.0500	Seed Water	MGAL	2,648.000	2,648.000
0100	633.5200	Markers Culvert End	EACH	18.000	18.000

Estimate Of Quantities

8758-00-72

Line	Item	Item Description	Unit	Total	Qty
0102	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	8.000	8.000
0104	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	14.000	14.000
0106	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	32.000	32.000
0108	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	2.000	2.000
0110	637.2210	Signs Type II Reflective H	SF	140.400	140.400
0112	637.2230	Signs Type II Reflective F	SF	193.200	193.200
0114	638.2602	Removing Signs Type II	EACH	28.000	28.000
0116	638.3000	Removing Small Sign Supports	EACH	34.000	34.000
0118	642.5001	Field Office Type B	EACH	1.000	1.000
0120	643.0420	Traffic Control Barricades Type III	DAY	1,635.000	1,635.000
0122	643.0715	Traffic Control Warning Lights Type C	DAY	2,910.000	2,910.000
0124	643.0900	Traffic Control Signs	DAY	32,660.000	32,660.000
0126	643.5000	Traffic Control	EACH	1.000	1.000
0128	645.0120	Geotextile Type HR	SY	22.000	22.000
0130	645.0130	Geotextile Type R	SY	160.000	160.000
0132	646.2020	Marking Line Epoxy 6-Inch	LF	70,322.000	70,322.000
0134	646.5320	Marking Railroad Crossing Epoxy	EACH	8.000	8.000
0136	646.6120	Marking Stop Line Epoxy 18-Inch	LF	40.000	40.000
0138	648.0100	Locating No-Passing Zones	MI	3.693	3.693
0140	650.4500	Construction Staking Subgrade	LF	19,745.000	19,745.000
0142	650.5000	Construction Staking Base	LF	19,745.000	19,745.000
0144	650.6000	Construction Staking Pipe Culverts	EACH	9.000	9.000
0146	650.9911	Construction Staking Supplemental Control (project) 01. 8758-00-72	EACH	1.000	1.000
0148	650.9920	Construction Staking Slope Stakes	LF	19,745.000	19,745.000
0150	690.0150	Sawing Asphalt	LF	92.000	92.000
0152	740.0440	Incentive IRI Ride	DOL	14,614.000	14,614.000
0154	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,500.000	1,500.000
0156	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	990.000	990.000
0158	SPV.0060	Special 01. Temporary Bypass Channel STA 130+75	EACH	1.000	1.000
0160	SPV.0060	Special 02. Temporary Bypass Channel STA 159+40	EACH	1.000	1.000

**CLEARING & GRUBBING**

				*	
				201.0105	201.0205
				CLEARING	GRUBBING
STATION	TO	STATION	LOCATION	STA	STA
109+00	-	124+00	CTH C	15	15
6+00	-	7+00	CTH W	1	1
129+00	-	134+00	CTH C	5	5
135+00	-	175+00	CTH C	40	40
177+00	-	184+00	CTH C	7	7
185+00	-	198+00	CTH C	13	13
200+00	-	209+00	CTH C	9	9
212+00	-	215+00	CTH C	3	3
216+00	-	258+00	CTH C	42	42
267+00	-	275+00	CTH C	8	8
277+00	-	289+00	CTH C	12	12
<b>TOTAL 0010</b>				<b>155</b>	<b>155</b>

\* CUTTING OF TREES BY OTHERS AS CLEARING BY CONTRACTOR IS STILL REQUIRED AND WILL BE PAID FOR.OTHERS

NOTE: CLEARING TO THE RIGHT OF WAY LIMITS IS ANTICIPATED IN ALL AREAS EXCEPT RESIDENTIAL YARD LOCATIONS.

**REMOVING SMALL PIPE CULVERTS**

				203.0100
				REMOVING
				SMALL PIPE
				CULVERTS
STATION	LOCATION	SIZE/MATERIAL	EACH	
99+99	CTH C	24"x56' CMCP	1	
101+75	LT	22"x41' CMCP	1	
105+00	RT	18" CMCP	1	
108+80	RT	18"x23' CMCP	1	
109+20	LT	18"x40' CMCP	1	
113+20	RT	18"x30' CMCP	1	
116+00	CTH C	24"x49' CMCP	1	
117+97	LT	18"x22' CMCP	1	
122+93	CTH C	24"x39' RCCP	1	
130+75	CTH C	48"x52' CMCP	1	
133+45	RT	18"x16' CMCP	1	
166+20	CTH C	24"x44' RCCP	1	
187+75	CTH C	24"x76' CMCP	1	
209+66	HILPIPER RD	24"x40' CMCP	1	
238+28	LT	18"x30' CMCP	1	
247+68	LT	18"x41' CMCP	1	
249+24	LT	18"x32' CMCP	1	
255+87	LT	18"x42' PCP	1	
262+65	HOFFMOCKEL RD	24"x55' CMCP	1	
272+47	LT	18"x34' CMCP	1	
276+08	CTH C	36"x41' CMCP	1	
292+14	LT	12"x9' CMCP	1	
<b>TOTAL 0010</b>				<b>22</b>

**REMOVING STRUCTURE**

				203.0220.01
				REMOVING STRUCTURE
				(STRUCTURE) (01. STA
				159+40)
STATION	LOCATION	SIZE/MATERIAL	EACH	
159+40	CTH C	138"x50' CMCP	1	
<b>TOTAL 0010</b>				<b>1</b>

**REMOVING ASPHALTIC SURFACE**

				204.0110
				REMOVING
				ASPHALTIC
				SURFACE
STATION	TO	STATION	LOCATION	SY
115+25	-	117+25	CTH C	490
159+22	-	161+50	CTH C	557
207+00	-	220+00	CTH C	3,178
269+00	-	279+00	CTH C	2,445
<b>TOTAL 0010</b>				<b>6,670</b>

NOTE: REMOVING ASPHALTIC SURFACE IS ONLY INCLUDED FOR AREAS WHERE NOT INCLUDED IN THE COMMON EXCAVATION DUE TO PROFILE RAISES.

**REMOVING FENCE**

				204.0170
				REMOVING
				FENCE
				LF
STATION	TO	STATION	LOCATION	
101+16	-	106+67	RT	551
101+57	-	108+94	LT	737
116+80	-	121+50	RT	470
118+71	-	129+75	LT	1,104
123+15	-	130+25	RT	710
265+15	-	271+40	LT	625
273+21	-	281+94	LT	873
<b>TOTAL 0010</b>				<b>5,070</b>

**REMOVING CATCH BASINS**

			204.0215
			REMOVING
			CATCH
			BASINS
STATION	LOCATION	EACH	
187+75	RT	1	
<b>TOTAL 0010</b>			<b>1</b>

**ABANDONING WELLS**

			204.0265
			ABANDONING
			WELLS
			EACH
STATION	LOCATION	EACH	
292+00	CTH C, LT	1	
<b>TOTAL 0010</b>			<b>1</b>

**FINISHING ROADWAY (8758-00-72)**

		213.0100.01
		FINISHING ROADWAY
		(PROJECT)
		(01. 8758-00-72)
PROJECT	EACH	
8758-00-72	1	
<b>TOTAL 0010</b>		<b>1</b>

**BASE AGGREGATE DENSE & SUBBASE**

				305.0110	305.0120	350.0125
				BASE AGGREGATE	BASE AGGREGATE	SUBBASE
				DENSE 3/4-INCH	DENSE 1 1/4-INCH	8-INCH
				TON	TON	SY
STATION	TO	STATION	LOCATION			
97+50	-	292+50	CTH C	7,628	69,024	101,825
10+29	-	12+50	CTH W	90	823	1,329
			SIDEROADS	85	1,297	---
			DRIVEWAYS (27)	---	350	---
<b>TOTAL 0010</b>				<b>7,803</b>	<b>71,494</b>	<b>103,154</b>

**HMA PAVEMENT**

				455.0605	460.5223	460.5244
				TACK COAT	HMA PAVEMENT	HMA PAVEMENT
				GAL	3 LT 58-28 S	4 LT 58-34 S
STATION	TO	STATION	LOCATION		TON	TON
97+50	-	292+50	CTH C	2,603	7,288	6,559
10+29	-	12+50	CTH W	46	152	114
			SIDEROADS	106	354	266
<b>TOTAL 0010</b>				<b>2,755</b>	<b>7,794</b>	<b>6,939</b>

ALL ITEMS ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

3

3

DIVISION	FROM/TO STATION	205.0100 COMMON EXCAVATION (1)		SALVAGED/UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	205.0400 MARSH EXCAVATION (6)	EXPANDED MARSH BACKFILL (10)	EXPANDED EBS BACKFILL (11)	UNEXPANDED FILL	EXPANDED FILL (13)	MASS ORDINATE +/- (14)	WASTE	208.0100 BORROW (12)	209.2100 BACKFILL GRANULAR GRADE 2		
		FACTOR 1.50	FACTOR 1.30				FACTOR 1.30									
DIVISION 1																
CTH C SEG 1	98+00/292+50	48,008	0	6,620	41,388	0	0	0	27,352	35,558	5,830	5,830	0	0		
	TRANSITIONAL CUTS	2,500	0	0	0	0	0	0	2,500	3,250	-750	-750	0	3,250		
	UNDISTRIBUTED	0	10,000	0	0	3,000	4,500	13,000	0	0	13,000	13,000	3,000	17,500		
DIVISION 1 SUBTOTAL		50,508	10,000	6,620	41,388	3,000	4,500	13,000	29,852	38,808	18,080	18,080	3,000	20,750		
DIVISION 2																
CTH W	10+50/12+66.86	649	0	100	549	0	0	0	257	334	215	215	0	0		
DIVISION 2 SUBTOTAL		649	0	100	549	0	0	0	257	334	215	215	0	0		
GRAND TOTAL		51,157	10,000	6,720	41,937	3,000	4,500	13,000	30,109	39,142	18,295	18,295	0	20,750		
TOTAL COMMON EXC		61,157		0110 TOTALS											3,000	20,750

## NOTES:

(1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100

(2) SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.

(3) EBS EXCAVATION TO BE BACKFILLED WITH BACKFILL GRANULAR.

(4) SALVAGED/UNUSABLE PAVEMENT MATERIAL

(5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSABLE PAVEMENT MATERIAL

(6) MARSH EXCAVATION TO BE BACKFILLED WITH BACKFILL GRANULAR. ITEM NUMBER 209.2100

(10) EXPANDED MARSH BACKFILL - THIS IS TO BE FILLED WITH BACKFILL GRANULAR. MARSH BACKFILL FACTOR = 1.50. ITEM NUMBER 209.2100

(11) EXPANDED EBS BACKFILL - THIS IS TO BE FILLED WITH BACKFILL GRANULAR. EBS BACKFILL FACTOR = 1.30. ITEM NUMBER 209.2100

(12) AN UNDISTRIBUTED BORROW EXCAVATION QUANTITY IS INCLUDED TO ACCOUNT FOR POTENTIAL UNUSABLE MATERIALS ENCOUNTERED AS PART OF EXCAVATION COMMON.

(13) EXPANDED FILL FACTOR = 1.30

EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK) \* FILL FACTOR

(14) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

ALL ITEMS ON THIS SHEET  
ARE CATEGORY 0010  
UNLESS OTHERWISE NOTED

**CULVERT PIPES & APRON ENDWALLS**

STATION	LOCATION	520.1018	520.1024	520.3318	520.3324	520.3424	521.1072	521.6172	522.0436	522.1036	628.7555	633.5200	650.6000	THICKNESS STEEL (INCHES)	INVERT ELEV	DISCHARGE ELEV	SLOPE %
		APRON ENDWALLS FOR CULVERT PIPE 18-INCH EACH	APRON ENDWALLS FOR CULVERT PIPE 24-INCH EACH	CULVERT PIPE CLASS III-A 18-INCH LF	CULVERT PIPE CLASS III-A 24-INCH LF	CULVERT PIPE CLASS III-A NON-METAL 24-INCH LF	APRON ENDWALLS FOR CULVERT PIPE STEEL 72-INCH EACH	CULVERT PIPE CORRUGATED STEEL ALUMINUM COATED 72-INCH LF	CULVERT PIPE REINFORCED CONCRETE CLASS IV 36-INCH LF	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH EACH	CULVERT PIPE CHECKS EACH	MARKERS CULVERT END EACH	CONSTRUCTION STAKING PIPE CULVERTS EACH				
99+65	CTH C	---	2	---	---	66	---	---	---	---	3	2	1	---	903.84	903.62	0.33
101+75	LT	---	2	---	42	---	---	---	---	---	3	---	---	0.064	---	---	---
105+00	RT	2	---	44	---	---	---	---	---	---	2	---	---	0.064	---	---	---
108+80	RT	2	---	50	---	---	---	---	---	---	2	---	---	0.064	---	---	---
109+20	LT	2	---	54	---	---	---	---	---	---	2	---	---	0.064	---	---	---
113+20	RT	2	---	50	---	---	---	---	---	---	2	---	---	0.064	---	---	---
116+23	CTH C	---	2	---	---	90	---	---	---	---	3	2	1	---	870.55	870.00	0.61
117+97	LT	2	---	22	---	---	---	---	---	---	2	---	---	0.064	---	---	---
118+70	LT	2	---	32	---	---	---	---	---	---	2	---	---	0.064	---	---	---
120+57	LT	2	---	32	---	---	---	---	---	---	2	---	---	0.064	---	---	---
122+93	CTH C	---	2	---	---	60	---	---	---	---	3	2	1	---	870.66	870.26	0.66
130+53	CTH C	---	---	---	---	---	2	76	---	---	---	2	1	0.109	859.00	858.32	0.89
131+36	LT	2	---	26	---	---	---	---	---	---	2	---	---	0.064	---	---	---
133+45	RT	2	---	24	---	---	---	---	---	---	2	---	---	0.064	---	---	---
135+88	RT	2	---	32	---	---	---	---	---	---	2	---	---	0.064	---	---	---
136+06	LT	2	---	24	---	---	---	---	---	---	2	---	---	0.064	---	---	---
140+71	RT	2	---	28	---	---	---	---	---	---	2	---	---	0.064	---	---	---
151+03	LT	2	---	18	---	---	---	---	---	---	2	---	---	0.064	---	---	---
151+91	LT	2	---	36	---	---	---	---	---	---	2	---	---	0.064	---	---	---
166+20	CTH C	---	2	---	---	82	---	---	---	---	3	2	1	---	846.61	843.27	4.11
187+65	CTH C	---	2	---	---	76	---	---	---	---	3	2	1	0.064	838.00	835.00	4.03
191+92	LT	2	---	34	---	---	---	---	---	---	2	---	---	0.064	---	---	---
209+66	HILPIPER RD	---	2	---	60	---	---	---	---	---	3	2	1	0.064	839.85	839.45	---
238+28	LT	2	---	36	---	---	---	---	---	---	2	---	---	0.064	---	---	---
247+68	LT	2	---	34	---	---	---	---	---	---	2	---	---	0.064	---	---	---
249+24	LT	2	---	28	---	---	---	---	---	---	2	---	---	0.064	---	---	---
255+87	LT	2	---	44	---	---	---	---	---	---	2	---	---	0.064	---	---	---
262+65	HOFFMOCKEL RD	---	2	---	68	---	---	---	---	---	3	2	1	0.064	815.65	815.35	---
272+47	LT	2	---	34	---	---	---	---	---	---	2	---	---	0.064	---	---	---
276+08	CTH C	---	---	---	---	---	---	---	54	2	7	2	1	---	812.61	811.91	1.31
283+48	LT	2	---	36	---	---	---	---	---	---	2	---	---	0.064	---	---	---
292+14	LT	2	---	20	---	---	---	---	---	---	2	---	---	0.064	---	---	---
	UNDISTRIBUTED	---	---	---	---	---	---	---	---	---	15	---	---	---	---	---	---
<b>TOTAL 0010</b>		<b>44</b>	<b>16</b>	<b>738</b>	<b>170</b>	<b>374</b>	<b>2</b>	<b>76</b>	<b>54</b>	<b>2</b>	<b>90</b>	<b>18</b>	<b>9</b>				

**MAINTENANCE AND REPAIR OF HAUL ROAD**

<b>PIPE STRUCTURAL PLATE 144-INCH</b>						<b>618.0100.01 MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) (01. 8758-00- 72)</b>		
STATION	LOCATION	527.0244 PIPE STRUCTURAL PLATE 144-INCH LF	INVERT ELEV	DISCHARGE ELEV	SLOPE %	CATEGORY	LOCATION	EACH
159+40	CTH C	96	833.46	832.71	0.78	0020	ID 8758-00-72	1
<b>TOTAL 0010</b>		<b>96</b>				<b>TOTAL 0020</b>		<b>1</b>

ALL ITEMS ON THIS SHEET  
ARE CATEGORY 0010  
UNLESS OTHERWISE NOTED



3

3

TEMPORARY DITCH CHECKS

MOBILIZATION

LOCATION	619.1000 MOBILIZATION EACH
ID 8758-00-72	1
<b>TOTAL 0010</b>	<b>1</b>

WATER

LOCATION	624.0100 WATER MGAL
BASE COMPACTION DUST CONTROL	1,586 793
<b>TOTAL 0010</b>	<b>2,379</b>

628.7504  
TEMPORARY  
DITCH CHECKS

STATION	LOCATION	LF
101+75	RT	12
103+00	LT/RT	24
104+00	LT/RT	24
105+00	LT	12
106+00	LT/RT	24
107+00	RT	10
108+00	LT/RT	22
110+00	RT	10
12+00	CTH W, LT/RT	22
111+00	RT	10
112+00	RT	10
114+00	RT	10
115+00	RT	12
116+25	LT	12
126+50	LT	12
144+00	LT/RT	24
146+00	LT/RT	24
148+00	LT/RT	24
	PERHAM RD, LT/RT	24
158+00	RT	12
159+00	LT	17
178+00	LT/RT	24
181+00	LT/RT	24
183+00	LT/RT	24
185+00	LT/RT	24
187+00	LT/RT	22
	STATE TRAIL, LT/RT	24
190+00	LT/RT	20
192+00	RT	12
205+00	LT/RT	24
208+00	LT/RT	24
225+00	LT	12
228+00	LT/RT	24
232+00	LT/RT	24
234+00	LT/RT	24
237+00	LT/RT	24
241+00	LT/RT	24
246+00	LT/RT	24
251+00	LT/RT	24
255+50	RT	12
264+00	LT	12
272+00	RT	12
	UNDISTRIBUTED	161
<b>TOTAL 0010</b>		<b>950</b>

SILT FENCE

STATION	TO	STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF
97+50	-	100+25	CTH C, RT	290	870
11+25	-	12+50	CTH W, LT	140	420
112+00	-	117+00	CTH C, LT	550	1,650
121+50	-	123+25	CTH C, LT	195	585
126+50	-	127+50	CTH C, LT	100	300
129+50	-	131+00	CTH C, LT	170	510
130+50	-	131+25	CTH C, RT	95	285
142+00	-	143+75	CTH C, LT	175	525
149+50	-	151+00	CTH C, LT/RT	295	885
153+00	-	155+00	CTH C, LT	205	615
158+50	-	160+00	CTH C, RT	180	540
159+00	-	161+00	CTH C, LT	230	690
165+50	-	167+00	CTH C, LT	165	495
209+00	-	215+25	CTH C, LT	620	1,860
212+00	-	216+25	CTH C, RT	425	1,275
218+00	-	220+75	CTH C, LT	270	810
242+00	-	246+00	CTH C, LT	400	1,200
250+00	-	250+75	CTH C, LT	80	240
263+00	-	284+75	CTH C, RT	2,190	6,570
265+25	-	272+00	CTH C, LT	675	2,025
273+00	-	278+00	CTH C, LT	530	1,590
282+75	-	283+25	CTH C, LT	50	150
284+25	-	285+50	CTH C, LT	130	390
289+00	-	290+75	CTH C, LT	185	555
			UNDISTRIBUTED	1,670	5,010
<b>TOTAL 0010</b>				<b>10,015</b>	<b>30,045</b>

EROSION CONTROL MOBILIZATIONS ITEMS

PROJECT	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
8758-00-72	3	4
<b>TOTAL 0010</b>	<b>3</b>	<b>4</b>

EROSION MAT URBAN CLASS I TYPE B

STATION	TO	STATION	LOCATION	628.2008 EROSION MAT URBAN CLASS I TYPE B SY
10+50	-	12+45	CTH W, LT	573
115+75	-	116+75	LT	392
			UNDISTRIBUTED	195
<b>TOTAL 0010</b>				<b>1,160</b>

SALVAGED TOPSOIL, MULCHING, FERTILIZER, AND SEED

STATION	TO	STATION	LOCATION	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL
97+50	-	292+50	CTH C	67,900	66,300	59	2,508	---	2,508	2,086
10+25	-	12+45	CTH W	1,200	1,200	1	39	---	39	32
		UNDISTRIBUTED	CTH C/ CTH W	---	16,875	15	637	100	637	530
<b>TOTAL 0010</b>				<b>69,100</b>	<b>84,375</b>	<b>75</b>	<b>3,184</b>	<b>100</b>	<b>3,184</b>	<b>2,648</b>

RIPRAP & GEOTEXTILE

LOCATION	606.0100 RIPRAP LIGHT CY	606.0300 RIPRAP HEAVY CY	645.0120 GEOTEXTILE TYPE HR SY	645.0130 GEOTEXTILE TYPE R SY
130+53, LT&RT	--	4	22	--
NW QUAD STATE TRAIL & CTH C	15	--	--	62
NE QUAD STATE TRAIL & CTH C	8	--	--	32
SE QUAD STATE TRAIL & CTH C	10	--	--	39
UNDISTRIBUTED	7	--	--	27
<b>TOTAL 0010</b>	<b>40</b>	<b>4</b>	<b>22</b>	<b>160</b>

ALL ITEMS ON THIS SHEET  
ARE CATEGORY 0010  
UNLESS OTHERWISE NOTED

**SIGNING TYPE II & REMOVING SIGNS TYPE II**

SIGN NO.	APPROX. STATION	SIGN CODE	SIGN SIZE WxH (INCHES)	634.0612	634.0614	634.0616	634.0618	637.2210	637.2230	638.2602	638.3000	REMARKS
				POSTS WOOD 4X6- INCH X 12-FT EACH	POSTS WOOD 4X6- INCH X 14-FT EACH	POSTS WOOD 4X6- INCH X 16-FT EACH	POSTS WOOD 4X6- INCH X 18-FT EACH	SIGNS TYPE II REFLECTIVE H SF	SIGNS TYPE II REFLECTIVE F SF	REMOVING SIGNS TYPE II EACH	REMOVING SMALL SIGN SUPPORTS EACH	
1-1	102+05	RT								1	2	WELCOME TOWN OF SUPERIOR
1-2	102+55	RT	M1-5A	24"x 24"		1		4.00		1	1	CTH C
1-3	104+65	RT	W1-2R	36"x 36"			1		9.00			
			W13-1	18"x 18"					2.25			"40" (SHARED POST)
1-4	105+40	RT	J1-1	24"x 39"			1	6.50				JCT, CTH W
1-5	105+45	RT	W14-3	48"x 36"			2		5.56			
1-6	107+70	LT	W10-1	36"x 36"			1		7.07	1	2	
1-7	108+00	RT	D1-1	54"x15"		2		5.63		1	2	LT ARROW (OLIVER)
1-8	108+10	LT	W1-8	18"x24"	1				3.00			LT CHEVRON
1-9	108+70	LT	W1-6	48"x24"		2			8.00			RT ARROW
1-10	109+30	LT	W1-8	18"x24"	1				3.00			RT CHEVRON
			W1-8	18"x24"					3.00			LT CHEVRON (SHARED POST)
1-11	110+50	LT	W1-8	18"x24"	1				3.00			RT CHEVRON
			W1-8	18"x24"					3.00			LT CHEVRON (SHARED POST)
1-12	110+70	LT	J13-2	48"x45"			2	15.00		1	2	CTH W, LT ARROW; CTH C LT & RT ARROW
1-13	110+80	LT	R1-1	30"x30"			1	5.18		1	1	(WITH WARNING FLAGS)
1-14	110+75	RT	J13-1	24"x 45"			1	7.50				CTH W; LT & UP ARROW
1-15	111+05	RT	W1-7	48"x 24"		2			8.00			
1-16	6+55	RT	M1-5A	24"x24"		1		4.00				CTH W
1-17	8+50	LT	W3-1	36"x36"		1			9.00			(WITH WARNING FLAGS)
1-18	111+70	LT	W1-8	18"x24"	1				3.00			RT CHEVRON
			W1-8	18"x24"					3.00			LT CHEVRON (SHARED POST)
1-19	112+00	LT	J13-1	24"x45"			1	7.50				CTH W, RT ARROW
1-20	112+60	RT	M50-2	48"x24"		2		8.00		1	1	CTH C; CTH W
1-21	112+90	LT	W1-8	18"x24"	1				3.00			RT CHEVRON
			W1-8	18"x24"					3.00			LT CHEVRON (SHARED POST)
1-22	114+10	LT	W1-8	18"x24"	1				3.00			RT CHEVRON
			W1-8	18"x24"					3.00			LT CHEVRON (SHARED POST)
1-23	114+70	LT	W1-6	48"x24"		2			8.00			LT ARROW
1-24	115+30	LT	W1-8	18"x24"	1				3.00			RT CHEVRON
			W1-8	18"x24"					3.00			LT CHEVRON (SHARED POST)
1-25	116+50	LT	W1-8	18"x24"	1				3.00			RT CHEVRON
2-1	115+50	LT	J13-1	24"x 45"			1	7.50				CTH W, UP and RT ARROW
2-2	119+00	RT	R2-1	24"x 30"			1	5.00				"55"
2-3	119+60	LT	W1-2L	36"x 36"			1		9.00			
			W13-1	18"x 18"					2.25			"40" (SHARED POST)
2-4	121+00	LT								1	1	
2-5	124+00	LT								1	1	
4-1	156+60	LT	R1-1	30"x 30"			1	5.18		1	1	(PERHAM RD)
5-1	169+90	RT	W1-2L	36"x 36"			1		9.00	1	1	
6-1	180+45	RT	S3-1	30"x 30"			1		6.25	1	1	
6-2	181+50	RT	W11-15A	30"x 30"			1		6.25	1	1	
6-3	187+50	LT	W1-2R	36"x 36"			1		9.00	1	1	
7-1	190+15	LT								1	1	
7-2	193+55	LT	W11-15A	30"x 30"			1		6.25	1	1	
7-3	204+00	RT	W10-3	36"x 36"			1		9.00			
8-2	210+00	RT	R1-1	30"x 30"			1	5.18		1	1	(HILPIPER RD)
8-3	215+00	LT	W10-3	36"x 36"			1		9.00			
8-4	219+50	RT	W1-2L	36"x 36"			1		9.00			
9-1	220+65	RT					1			1	1	
11-1	19+15	LT	W10-1	36"x 36"			1		7.07			(HOFFMOCKEL RD)
11-2	263+00	RT	R1-1	30"x 30"			1		5.18	1	1	(HOFFMOCKEL RD)
13-1	283+50	RT								1	1	
13-2	286+00	RT	J13-1	24"x 45"			1	7.50				CTH W, UP AND RIGHT ARROW

ALL ITEMS ON THIS SHEET  
ARE CATEGORY 0010  
UNLESS OTHERWISE NOTED

**SIGNING TYPE II & REMOVING SIGNS TYPE II**

SIGN NO.	APPROX. STATION	SIGN CODE	SIGN SIZE WxH (INCHES)	634.0612	634.0614	634.0616	634.0618	637.2210	637.2230	638.2602	638.3000	REMARKS	FIELD OFFICE TYPE B	
				POSTS WOOD 4X6- INCH X 12-FT EACH	POSTS WOOD 4X6- INCH X 14-FT EACH	POSTS WOOD 4X6- INCH X 16-FT EACH	POSTS WOOD 4X6- INCH X 18-FT EACH	SIGNS TYPE II REFLECTIVE H SF	SIGNS TYPE II REFLECTIVE F SF	REMOVING SIGNS TYPE II EACH	REMOVING SMALL SIGN SUPPORTS EACH		642.5001 FIELD OFFICE TYPE B EACH	PROJECT
13-3	289+80	LT	M50-2	48"x 24"	---	2	---	8.00	---	1	2	CTH W, CTH C		
13-4	290+35	RT	J13-1	24"x 45"	---	---	1	7.50	---	1	1	CTH W, RT ARROW		
13-5	24+40	LT	M1-5A	24"x 24"	---	1	---	4.00	---	1	1	CTH W		
13-6	290+65	LT	R1-1	30"x 30"	---	---	1	5.18	---	1	1	(BARNES RD)		
13-7	291+20	RT	R1-1	30"x 30"	---	---	1	5.18	---	1	1	(CTH W)	8758-00-72	1
13-8	291+25	RT	J13-2	48"x 45"	---	---	2	15.00	---	1	2	CTH W, LT ARROW, CTH C, RT AND LT ARROW		
13-9	291+25	LT	J13-1	24"x 45"	---	---	1	7.50	---	1	1	CTH W, LT AND UP ARROW		
13-10	24+12	LT	W10-1	36"x 36"	---	---	1	---	7.07	1	1	(CTH W)		
<b>TOTAL 0010</b>				<b>8</b>	<b>14</b>	<b>32</b>	<b>2</b>	<b>140.40</b>	<b>193.20</b>	<b>28</b>	<b>34</b>			

**TRAFFIC CONTROL**

**MARKING RAILROAD CROSSING EPOXY**

**CONSTRUCTION STAKING**

LOCATION	643.0420	643.0715	643.0900	643.5000	STATION	TO	STATION	LOCATION	EACH	REMARKS	STATION	TO	STATION	LOCATION	650.4500	650.5000	650.9920
	TRAFFIC CONTROL BARRICADES TYPE III DAY	TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY	TRAFFIC CONTROL SIGNS DAY	TRAFFIC CONTROL EACH											CROSSINGS EPOXY	CONSTRUCTION STAKING SUBGRADE LF	CONSTRUCTION STAKING BASE LF
PROJECT LIMITS	--	--	--	1	92+60	-	100+10	CTH C	1		97+50	-	292+50	CTH C	19,500	19,500	19,500
RAILROAD CLOSURE	675	990	180	--	100+58	-	108+08	CTH C	1		10+00	-	12+45	CTH W	245	245	245
TRAFFIC CONTROL DETOUR	--	--	2,880	--	14+24	-	14+84	HILPIPER RD	1	OMIT STOP BAR AT THE TRACKS STOP BAR ONLY							
	960	1,920	29,600	--			13+75	HILPIPER RD	1								
					18+94		19+54	HOFFMOCKEL RD	1	OMIT STOP BAR AT THE TRACKS STOP BAR ONLY							
					23+81	-	24+41	CTH W	1	OMIT STOP BAR AT THE TRACKS STOP BAR ONLY							
							23+46	CTH W	1								
<b>TOTAL 0010</b>	<b>1,635</b>	<b>2,910</b>	<b>32,660</b>	<b>1</b>											<b>19,745</b>	<b>19,745</b>	<b>19,745</b>
<b>TOTAL 0010</b>									<b>8</b>								

**PAVEMENT MARKING**

**LOCATING NO-PASSING ZONES**

**CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (8758-00-72)**

**TEMPORARY BYPASS CHANNEL STA 130+75**

STATION	TO	STATION	LOCATION	COLOR/DESCRIPTION	646.2020	646.6120	PROJECT	650.9911.01 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) (01. 8758-00-72) EACH	STATION	EACH
					MARKING LINE EPOXY 6-INCH LF	MARKING STOP LINE EPOXY 18-INCH LF				
97+50	-	292+50	CTH C	EDGE LINE WHITE	38740	--	8758-00-72	1	130+75	1
97+50	-	125+75	CTH C	DOUBLE YELLOW	5,650	--				
109+77	-	112+34	CTH C/CTH W INT	DOTTED EDGE LINE WHITE, LT	85	--				
10+30	-	12+45	CTH W	DOUBLE YELLOW	430	22				
10+30	-	12+45	CTH W	EDGE LINE WHITE	430	--				
125+75	-	142+00	CTH C	SOLID/DASHED YELLOW	2,032	--				
142+00	-	152+00	CTH C	DASHED YELLOW	250	--				
152+00	-	157+50	CTH C	SOLID/DASHED YELLOW	688	--				
157+50	-	192+50	CTH C	DOUBLE YELLOW	7,000	--				
192+50	-	218+00	CTH C	DASHED YELLOW	638	--				
218+00	-	235+50	CTH C	DOUBLE YELLOW	3,500	--				
235+50	-	243+75	CTH C	SOLID/DASHED YELLOW	1,032	--				
243+75	-	286+00	CTH C	DOUBLE YELLOW	8,450	--				
286+00	-	292+50	CTH C	SOLID/DASHED YELLOW	813	--				
23+29	-	24+75	CTH W	DOUBLE YELLOW	292	18				
23+29	-	24+75	CTH W	EDGE LINE WHITE	292	--				
<b>TOTAL 0010</b>					<b>70,322</b>	<b>40</b>				

LOCATION	648.0100 LOCATING NO- PASSING ZONES MI
CTH C	3.693
<b>TOTAL 0010</b>	<b>3.693</b>

STATION	LOCATION	690.0150 SAWING ASPHALT LF
97+50	CTH C	24
12+45	CTH W	22
23+29	CTH W (SOUTH)	22
292+50	CTH C	24
<b>TOTAL 0010</b>		<b>92</b>

STATION	650.060.01 SPECIAL (01. TEMPORARY BYPASS CHANNEL STA 130+75) EACH
130+75	1
<b>TOTAL 0010</b>	<b>1</b>

STATION	650.060.02 SPECIAL (02 TEMPORARY BYPASS CHANNEL STA 159+40) EACH
159+40	1
<b>TOTAL 0010</b>	<b>1</b>

ALL ITEMS ON THIS SHEET  
ARE CATEGORY 0010  
UNLESS OTHERWISE NOTED



# DOUGLAS COUNTY HIGHWAY DEPARTMENT TRANSPORTATION PROJECT PLAT TITLE SHEET

## 8758-00-02

### MINNESOTA STATE LINE - STH 35

MN STATE LINE TO SITEK RD

## CTH C DOUGLAS COUNTY

4

4

#### CONVENTIONAL SYMBOLS

SECTION LINE	---	SECTION CORNER SYMBOL	⊕	R/W MONUMENT (TO BE SET)	●
QUARTER LINE	---	SECTION CORNER MONUMENT	⊕	NON-MONUMENTED R/W POINT	○
SIXTEENTH LINE	---	SECTION CORNER MONUMENT	⊕	FOUND IRON PIN (1-INCH UNLESS NOTED)	IP
NEW REFERENCE LINE	---	GEODETTIC SURVEY MONUMENT	⊕	OFF-PREMISE SIGN	⊕
NEW R/W LINE	---	SIXTEENTH CORNER MONUMENT	⊕	NON-COMPENSABLE	⊕
EXISTING R/W OR HE LINE	---	SIGN	⊕	COMPENSABLE	⊕
PROPERTY LINE	---	OFF-PREMISE SIGN	⊕	NON-COMPENSABLE	⊕
LOT, TIE & OTHER MINOR LINES	---	PARCEL NUMBER	25	UTILITY NUMBER	40
SLOPE INTERCEPT	---	PARALLEL OFFSETS	---		
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 TO BE REMOVED	---				
BRIDGE	---				
CULVERT	---				

#### CONVENTIONAL ABBREVIATIONS

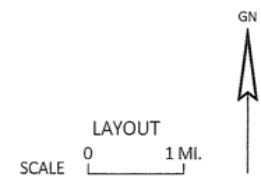
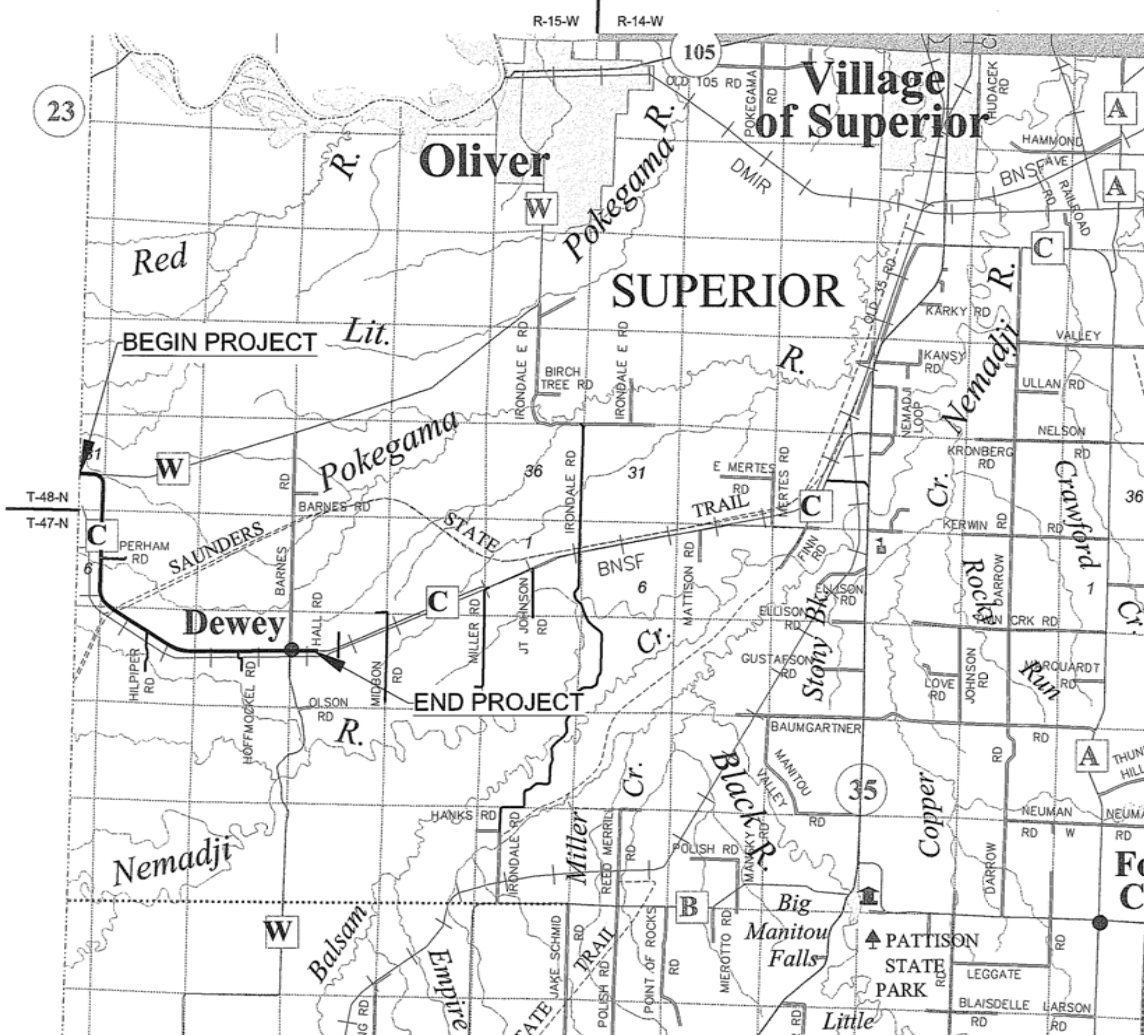
ACCESS RIGHTS	AR	POINT OF INTERSECTION	PI
ACRES	AC	PROPERTY LINE	PL
AHEAD	AH	RECORDED AS	(100')
ALUMINUM	ALUM	REEL / IMAGE	R/I
AND OTHERS	ET AL	REFERENCE LINE	R/L
BACK	BK	REMAINING	REM
BLOCK	BLK	RESTRICTIVE DEVELOPMENT	RDE
CENTERLINE	C/L	EASEMENT	
CERTIFIED SURVEY MAP	CSM	RIGHT	RT
CONCRETE	CONC	RIGHT 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 GEODETTIC 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

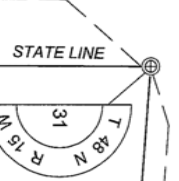
WATER	---
GAS	---
TELEPHONE	---
OVERHEAD TRANSMISSION LINES	---
ELECTRIC	---
CABLE TELEVISION	---
FIBER OPTIC	---
SANITARY SEWER	---
STORM SEWER	---
ELECTRIC TOWER	⊕



THE NOTES, CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 8758-00-02

#### NOTES:

- POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), DOUGLAS COUNTY, NAD83(2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.
- 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.
- PROPERTY LINES SHOWN ON THIS PLAT FOR PROPERTIES BEING IMPACTED ARE DRAWN FROM DATA DERIVED FROM FILED/RECORDED MAPS AND DOCUMENTS OF PUBLIC RECORD. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.
- ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, FROM CENTERLINE OF EXISTING PAVEMENTS AND/OR EXISTING OCCUPATIONAL LINES.
- PARCEL AND UTILITY IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE SCHEDULE OF LANDS & INTERESTS REQUIRED.
- INFORMATION FOR THE BASIS OF EXISTING HIGHWAY RIGHT-OF-WAY POINTS OF REFERENCE ARE LISTED ON THE TPP DETAIL PAGES.
- 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 RIGHT 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.
- AN EASEMENT FOR HIGHWAY PURPOSES (HE), AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE.
- FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE DOUGLAS COUNTY HIGHWAY DEPARTMENT.
- ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 3/4" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.



COMPUTED FROM SINGLE PROPORTION  
 Y = 260534.148'  
 X = 99670.948'

## TRANSPORTATION PROJECT PLAT NO: 8758-00-02 4.01 AMENDMENT NO. 1

AMENDS PARCEL 1 OF TRANSPORTATION PROJECT PLAT NO: 8758-00-02 4.01 RECORDED AS DOCUMENT NUMBER 936333.

THAT PART OF GOVERNMENT LOT 3 AND THAT PART OF GOVERNMENT LOT 4 OF SECTION 31, AND THAT PART OF THE NORTHWEST ¼ OF THE SOUTHWEST ¼ AND THAT PART OF THE SOUTHWEST ¼ OF THE SOUTHWEST ¼ OF SECTION 32, ALL IN TOWNSHIP 48 NORTH, RANGE 15 WEST, TOWN OF SUPERIOR, DOUGLAS COUNTY, WISCONSIN.

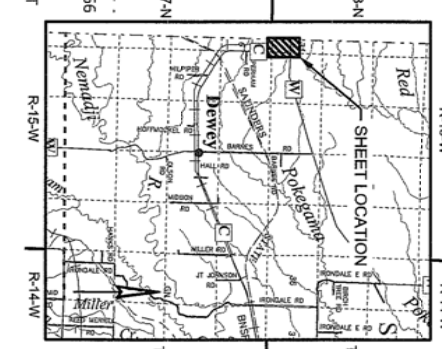
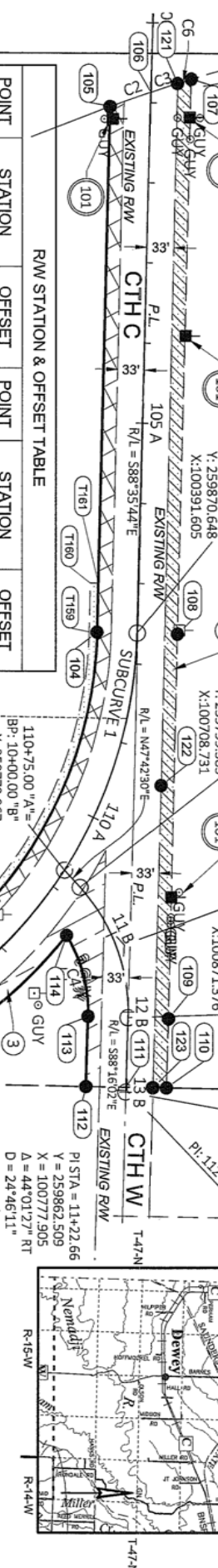
RELOCATION ORDER CTH C - MINNESOTA STATE LINE TO SITEK ROAD - DOUGLAS COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (9), 84.09, AND 84.30, WISCONSIN STATUTES, THE DOUGLAS COUNTY HIGHWAY DEPARTMENT HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS Laid OUT AND ESTABLISHED TO THE LINES AND THE TIES AS SHOWN THEREON IN THIS PROJECT.
2. THE TIES AS SHOWN THEREON IN THIS PROJECT ARE SHOWN ON THIS PLAT AND ESTABLISHED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE DOUGLAS COUNTY HIGHWAY DEPARTMENT, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

## TOWN GOVERNMENT LOT 3



POINT	STATION	OFFSET	POINT	STATION	OFFSET
100	130+98.83 "A"	2.49' RT	113	12+06.88 "B"	50.00' RT
101	130+98.74 "A"	50.00' RT	114	11+37.04 "A"	50.00' LT
102	128+82.91 "A"	50.00' RT	115	116+59.80 "A"	50.00' LT
103	116+59.80 "A"	50.00' RT	116	126+63.15 "A"	50.00' LT
104	107+61.96 "A"	50.00' RT	117	130+00.00 "A"	50.00' LT
105	101+05.98 "A"	50.00' RT	118	130+00.00 "A"	65.00' LT
106	100+86.78 "A"	0.00'	119	130+96.35 "A"	65.00' LT
107	100+69.47 "A"	50.00' LT	120	130+98.71 "A"	0.00' RT
108	107+61.96 "A"	50.00' LT	121	100+75.16 "A"	32.95' LT
109	12+06.88 "B"	50.00' LT	122	109+35.20 "A"	63.09' LT
110	12+93.17 "B"	50.00' LT	123	12+93.38 "B"	33.09' LT
111	12+93.79 "B"	0.00'	DP2784	128+36.74 "A"	30.78' RT
112	12+94.40 "B"	50.00' RT			

POINT	STATION	OFFSET	POINT	STATION	OFFSET
T150	129+50.01 "A"	50.00' RT	T158	116+59.80 "A"	60.00' RT
T151	129+50.01 "A"	60.00' RT	T159	107+61.96 "A"	60.00' RT
T152	127+50.01 "A"	60.00' RT	T160	107+01.04 "A"	60.00' RT
T153	127+50.01 "A"	50.00' RT	T161	107+00.87 "A"	50.00' RT
T154	120+00.00 "A"	50.00' RT	T162	115+75.00 "A"	50.00' LT
T155	120+00.03 "A"	60.00' RT	T163	116+30.00 "A"	75.00' LT
T156	118+00.03 "A"	60.00' RT	T164	117+00.00 "A"	50.00' LT
T157	118+00.00 "A"	50.00' RT			

CURVE	COURSE	LENGTH	RADIUS	LONG CHORD BEARING	LONG CHORD
C1	103-104	819.49'	522.96'	N43°42'13"W	738.18'
C2	105-106	53.53'	1587.02'	N19°36'22"W	53.53'
C3	106-121	34.97'	1587.02'	N18°00'31"W	34.97'
C4	113-114	106.08'	181.31'	S74°58'17"W	104.58'
C5	114-115	568.37'	622.96'	S24°56'58"E	548.86'
C6	121-107	17.97'	1587.02'	N17°03'11"W	17.97'

UTILITY NO.	OWNER(S)	INTEREST REQUIRED	EASEMENTS
100	NORTHERN NATURAL GAS COMPANY	RELEASE OF RIGHTS	V. 247, PG. 433, DOC. NO. 428992 - PARCEL 2 V. 287, PG. 175, DOC. NO. 488583 - PARCEL 4
101	HEAD OF THE LAKES ELECTRIC COOPERATIVE	RELEASE OF RIGHTS	NO EASEMENT OF RECORD - PARCELS 1 AND 2 V. 375, PG. 108, DOC. NO. 547849 - PARCEL 4
102	CENTURYLINK	RELEASE OF RIGHTS	NO EASEMENT OF RECORD - PARCEL 4

NOTES:  
 POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS). DOUGLAS COUNTY, MAD32(2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES. ALL EXISTING IRON PINS ARE 1" UNLESS OTHERWISE NOTED.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE DOUGLAS COUNTY HIGHWAY DEPARTMENT  
 EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:  
 CTH C STATUTE 82.31 USING EXISTING CENTERLINE AND A PRESUMED WIDTH OF 66'  
 CTH W STATUTE 82.31 USING EXISTING CENTERLINE AND A PRESUMED WIDTH OF 66'  
 ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" REBAR), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.  
 REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2.

PARCEL NO.	OWNER(S)	INTEREST REQUIRED		R/W (ACRES)		TLE	
		NEW	EXISTING	TOTAL	TLE	PLE	PLE
1	TRI STATE HOLDINGS, LLC	---	---	---	---	0.477	---
2	JOYCE A. CHRISTMANSON	1.096	2.256	3.352	0.292	---	---
3	DOUGLAS COUNTY, WI	0.311	0.751	1.062	---	---	---
4	RICHARD F. DECK	0.730	1.191	1.921	0.037	---	---

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.  
 THE PURPOSE OF ALL TLES AND PLES ARE FOR GRADING UNLESS NOTED.

CHRISTOPHER R. BADTKE  
 PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.09 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DOUGLAS COUNTY HIGHWAY DEPARTMENT, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

CHRISTOPHER R. BADTKE  
 REGISTRATION NUMBER: 53150  
 DATE: 09/12/2023

*Christopher R. Badtke*  
 DATE: 12/04/2023

RESERVED FOR REGISTER OF DEEDS  
 PROJECT NUMBER 8758-00-02 4.01  
 AMENDMENT NO. 1  
 SHEET 1 OF 2

DOCUMENT: 939748  
 Recorded on:  
 12-05-2023 at 8:00 AM  
 TRACER MIDDLETON  
 REGISTER OF DEEDS  
 DOUGLAS COUNTY, WI  
 Fee Amount: \$25.00

Total pages: 2

**TRANSPORTATION PROJECT PLAT NO: 8758-00-02.4.02**  
 THAT PART OF GOVERNMENT LOT 1 AND THAT PART OF GOVERNMENT LOT 2 OF SECTION 6, AND THAT PART OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 5, ALL IN TOWNSHIP 47 NORTH, RANGE 15 WEST, TOWN OF SUPERIOR, DOUGLAS COUNTY, WISCONSIN.

RELOCATION ORDER CTH C - MINNESOTA STATE LINE TO SITEK ROAD - DOUGLAS COUNTY  
 TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE DOUGLAS COUNTY HIGHWAY DEPARTMENT DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.  
 TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (B), 84.09, AND 84.30, WISCONSIN STATUTES, THE DOUGLAS COUNTY HIGHWAY DEPARTMENT HEREBY ORDERS THAT:  
 1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT BE LAYED OUT AND ESTABLISHED TO THE LINES AND WIDTH AS SO SHOWN FOR THE ABOVE PROJECT.  
 2. THAT THE PLAT BE RECORDED IN THE OFFICE OF THE CLERK OF COURTS AND COUNTY REGISTER OF DEEDS OF DOUGLAS COUNTY, WISCONSIN, IN ACCORDANCE WITH THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

COMPUTED FROM REFERENCE MONUMENTS FROM TIESHEET DATED 2-12-2008 BY ANTHONY LUECK  
 Y = 257852.998'  
 X = 99659.421'

FOUND ALUMINUM MONUMENT  
 Y = 257847.253'  
 X = 100922.163'

FOUND BRASS MONUMENT  
 Y = 257913.045'  
 X = 103554.111'

**GOVERNMENT LOT 1  
TOWN**

POINT	STATION	OFFSET
100	130+98.83 "A"	2.49 RT
101	130+98.74 "A"	50.00 RT
119	130+96.35 "A"	65.00 LT
120	130+98.74 "A"	0.00
200	131+25.00 "A"	65.00 LT
201	131+25.00 "A"	50.00 LT
202	141+68.20 "A"	50.00 LT
203	156+39.81 "A"	50.00 LT
204	156+73.16 "A"	50.00 LT
205	156+80.71 "A"	50.00 LT
206	156+81.41 "A"	1.08 LT
207	156+81.32 "A"	0.00
208	156+76.65 "A"	50.00 RT
209	156+73.64 "A"	50.00 RT
210	141+68.30 "A"	50.00 RT

POINT	STATION	OFFSET
T250	156+75.72 "A"	59.97 RT
T251	156+50.00 "A"	60.00 RT
T252	156+50.00 "A"	50.00 RT

**SCHEDULE OF LANDS & INTERESTS REQUIRED**

PARCEL NO.	OWNER(S)	INTEREST REQUIRED	HE	NEW	EXISTING	TOTAL	TILE
6	RAYMOND KIMINSKI, THOMAS A. KIMINSKI AND DARLA A. KIMINSKI	FEE	---	0.486	0.958	1.444	---
7	JAMES R. HUEHN, RAYMOND P. HUEHN AND DANIEL C. HUEHN	FEE	---	0.511	0.961	1.472	---
8	BNSF RAILWAY COMPANY	HE & TILE	1.550	0.000	0.000	1.550	0.006
9	JAMES B. FENDER AND DIANE M. FENDER	FEE	---	0.460	1.011	1.471	---

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

UTILITY NO.	OWNER(S)	INTEREST REQUIRED	EASEMENTS
101	HEAD OF THE LAKES ELECTRIC COOPERATIVE	RELEASE OF RIGHTS	V. 353, PG. 811, DOC. NO. 532885 - PARCEL 7 V. 407, PG. 709, DOC. NO. 570123 - PARCEL 9
102	CENTURYLINK	RELEASE OF RIGHTS	NO EASEMENT OF RECORD - PARCEL 7 AND 9

**GOVERNMENT LOT 2**

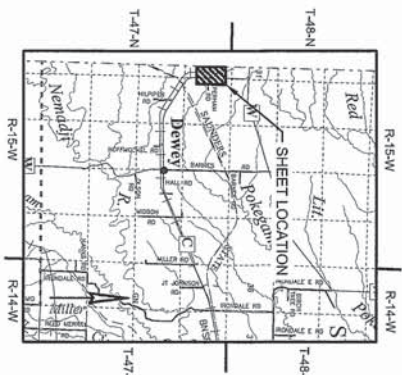
COURSE	BEARING	DISTANCE
100-120	N88°34'05"E	2.46'
120-119	N88°34'05"E	65.04'
119-200	S00°39'00"W	28.65'
200-201	N89°21'00"W	15.00'
201-202	S00°39'00"W	1043.20'
202-203	S00°25'19"W	1471.41'
203-204	S00°25'19"W	33.35'
204-205	S00°25'19"W	7.48'
205-206	S89°31'38"W	48.92'
206-207	N84°20'09"W	1.08'
207-208	N84°20'09"W	50.22'
208-209	N00°20'36"E	3.05'
209-210	N00°25'19"E	1505.48'
210-101	N00°39'00"E	1069.65'
101-100	S89°17'08"E	47.51'

B.N.S.F. RAILWAY COMPANY  
 MON. TO MON. 29°29'13"W 2582.61'  
 MON. TO MON. 50°25'19"W

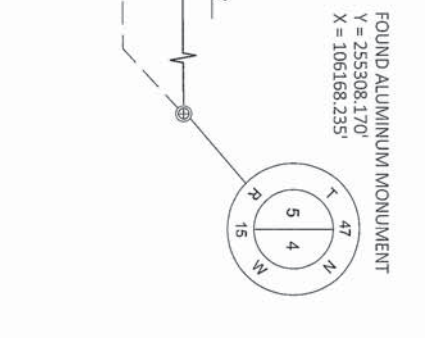
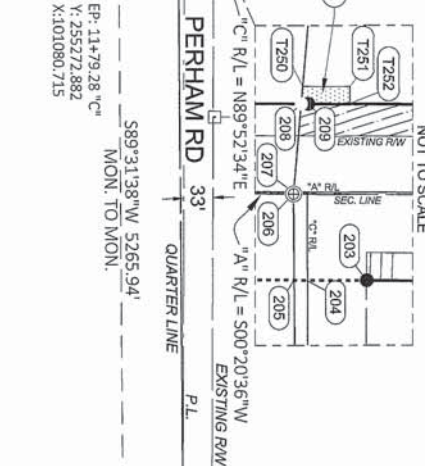
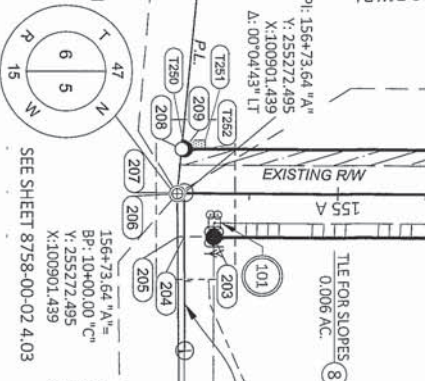
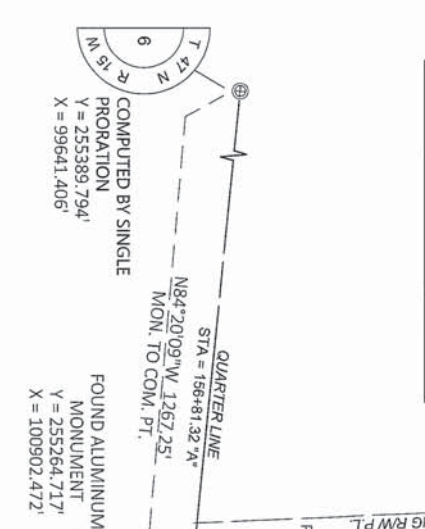
NOTES:  
 POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (NAD83), DOUGLAS COUNTY, MAD83(2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.  
 ALL EXISTING IRON PINS ARE 1" UNLESS OTHERWISE NOTED.  
 FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE DOUGLAS COUNTY HIGHWAY DEPARTMENT.  
 EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:  
 CTH C STATUTE 82.31 USING EXISTING CENTERLINE AND A PRESUMED WIDTH OF 66'  
 PERHAM ROAD: STATUTE 82.31 USING EXISTING CENTERLINE AND A PRESUMED WIDTH OF 66'  
 ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 1/2" X 3/4" REBAR), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.  
 REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, AS DOCUMENT NO. 936933 FOR ADDITIONAL INFORMATION.



**AVRES**  
 CHRISTOPHER R. BADTKE, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.09 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DOUGLAS COUNTY HIGHWAY DEPARTMENT, I HAVE SURVEYED THE ABOVE DESCRIBED PROJECT AND THE PLAT THEREON IS TRUE AND CORRECTLY REPRESENTS ALL EXTENSION BOUNDARIES OF THE SURVEYED LAND.  
 CHRISTOPHER R. BADTKE  
 REGISTRATION NUMBER: S-3150  
 DATE: 01/23/2023  
 THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE DOUGLAS COUNTY HIGHWAY DEPARTMENT.  
 JASON WACKMAN  
 DATE: 6/20/2023



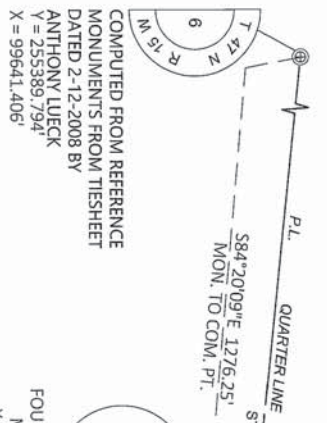
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 Recorded on 06-20-2023 at 1:58 PM  
 REGISTERED BY  
 DOUGLAS COUNTY, WI  
 Fee Amount: \$23.00  
 Total Pages: 1  
 RESERVED FOR REGISTER OF DEEDS  
 PROJECT NUMBER 8758-00-02.4.02



# TRANSPORTATION PROJECT PLAT NO: 8758-00-02 4.03

TO PROPERTY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (9), 84.09, AND 84.30, WISCONSIN STATUTES, THE DOUGLAS COUNTY HIGHWAY DEPARTMENT HEREBY ADDRESSES THAT:  
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS Laid OUT AND ESTABLISHED AS SO SHOWN FOR THE ABOVE PROJECT.  
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE DOUGLAS COUNTY HIGHWAY DEPARTMENT, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SEE SHEET 8758-00-02 4.02



FOUND ALUMINUM MONUMENT  
Y = 255264.717'  
X = 100902.472'

FOUND ALUMINUM MONUMENT  
Y = 255308.170'  
X = 106168.235'



COURSE	BEARING	DISTANCE
206-205	N89°31'38\"E	48.92'
205-300	S00°20'36\"W	25.16'
300-301	S00°20'36\"W	1605.74'
301-302	SEE CURVE TABLE	
302-303	S66°02'13\"E	147.29'
303-304	S89°59'11\"W	89.47'
304-305	S89°59'11\"W	89.47'
305-306	SEE CURVE TABLE	
306-208	N00°20'36\"E	1634.96'
208-207	S84°20'09\"E	50.22'
207-206	S84°20'09\"E	1.08'

### GOVERNMENT LOT 3

### TOWN

POINT	STATION	OFFSET
205	156+80.71 \"A	50.00' LT
206	156+81.41 \"A	1.08' LT
207	156+81.31 \"A	0.00'
208	156+76.65 \"A	50.00' RT
300	157+05.88 \"A	50.00' LT
301	173+11.61 \"A	50.00' LT
302	184+39.22 \"A	50.00' LT
303	185+86.51 \"A	50.00' LT
304	185+12.31 \"A	0.00'
305	184+38.17 \"A	50.00' RT
306	173+11.61 \"A	50.00' RT

### GOVERNMENT LOT 4

POINT	STATION	OFFSET
T250	156+75.72 \"A	59.97' RT
T350	157+05.80 \"A	70.00' LT
T351	162+50.00 \"A	70.00' LT
T352	162+50.00 \"A	50.00' LT
T353	165+75.00 \"A	50.00' LT
T354	165+75.00 \"A	60.00' LT
T355	166+50.00 \"A	60.00' LT
T356	166+50.00 \"A	50.00' LT
T357	173+11.61 \"A	60.00' LT
T358	174+99.97 \"A	60.00' LT
T359	175+00.00 \"A	50.00' LT
T360	185+50.00 \"A	50.00' LT
T361	185+50.00 \"A	60.00' LT
T362	186+01.34 \"A	60.00' LT
T363	162+00.00 \"A	50.00' RT
T364	162+00.00 \"A	70.00' RT
T365	158+00.00 \"A	70.00' RT
T366	158+00.00 \"A	60.00' RT

CURVE	COURSE	LENGTH	RADIUS	LONG CHORD BEARING	LONG CHORD
C6	301-302	1078.41'	1095.92'	S27°50'48\"E	1035.42'
C7	305-306	1175.71'	1195.92'	N27°49'14\"W	1128.93'

UTILITY NO.	OWNER(S)	INTEREST REQUIRED	EASEMENTS
101	HEAD OF THE LAKES ELECTRIC COOPERATIVE	RELEASE OF RIGHTS	DOC. NO. 710102 - PARCEL 11
302	CENTURYLINK	RELEASE OF RIGHTS	DOC. NO. 709552 - PARCEL 12 AND 13

PARCEL NO.	OWNER(S)	INTEREST REQUIRED	HE	NEW	EXISTING	TOTAL	TILE
8	BNSF RAILWAY COMPANY	HE & TILE	2.190	---	---	2.190	0.212
11	DALE AND SUSAN VAN OVERMEIREN	FEE & TILE	---	0.123	0.278	0.401	0.151
12	TAMMAY LYN CARVER	FEE & TILE	---	0.181	0.353	0.534	0.098
13	RICHARD A. CHURCH AND JEAN A. CHURCH	FEE & TILE	---	1.081	2.296	3.377	0.068

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT. TO THE PURPOSE OF ALL TILES IS FOR GRADING UNLESS NOTED.

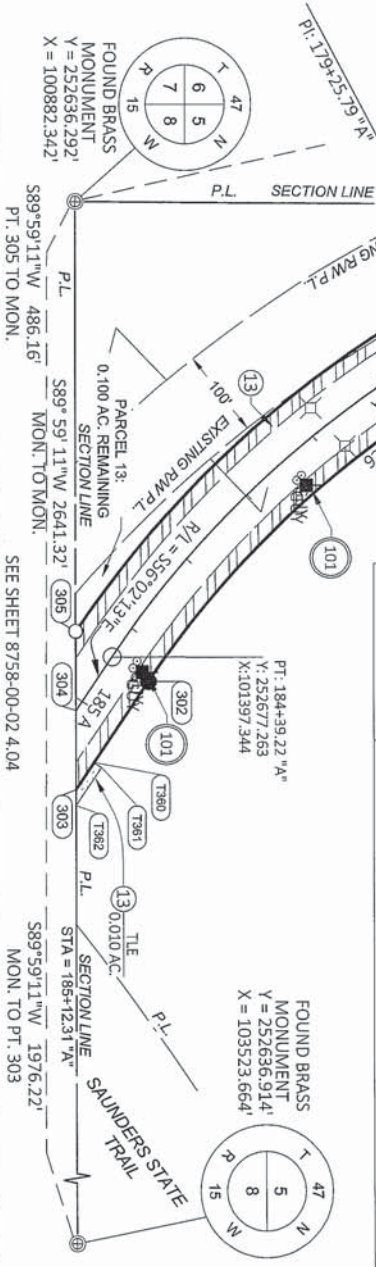
NOTES:  
POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (MCSRS), DOUGLAS COUNTY, NAD83(2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.  
ALL EXISTING IRON PINS ARE 1\" UNLESS OTHERWISE NOTED.  
FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE DOUGLAS COUNTY HIGHWAY DEPARTMENT  
EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:  
CTH C STATUTE 82.31 USING EXISTING CENTERLINE AND A PRESUMED WIDTH OF 66'  
PERHAM ROAD: STATUTE 82.31 USING EXISTING CENTERLINE AND A PRESUMED WIDTH OF 66'  
ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 3/4\" X 24\" REBAR), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.  
REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, AS DOCUMENT NO. 936333 FOR ADDITIONAL INFORMATION.



**AVRES**  
LAND SURVEYOR  
CHRISTOPHER R. BADTKE  
PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.09 OF THE WISCONSIN STATUTES I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTENSION BOUNDARIES OF THE SURVEYED LAND.

DATE: 01/23/2023  
REGISTRATION NUMBER: S-3150  
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE DOUGLAS COUNTY HIGHWAY DEPARTMENT.

DATE: 6/20/2023  
DATE: 6/20/2023



**TRANSPORTATION PROJECT PLAT NO: 8758-00-02 4.04**

THAT PART OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 AND THAT PART OF THE NORTHEAST 1/4 OF THE NORTHWEST 1/4, ALL IN SECTION 8, TOWNSHIP 47 NORTH, RANGE 15 WEST, TOWN OF SUPERIOR, DOUGLAS COUNTY, WISCONSIN.

RELOCATION ORDER CTH C - MINNESOTA STATE LINE TO SITEK ROAD - DOUGLAS COUNTY  
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE DOUGLAS COUNTY HIGHWAY DEPARTMENT DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

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

- 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 PROJECT.
- THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE DOUGLAS COUNTY HIGHWAY DEPARTMENT, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

**SCHEDULE OF LANDS & INTERESTS REQUIRED**

PARCEL NO.	OWNER(S)	INTEREST REQUIRED	R/W (ACRES)				
			HE	NEW	EXISTING	TOTAL	TLE
8	BNSF RAILWAY COMPANY	HE & TLE	0.711	----	----	0.712	0.022
14	STATE OF WISCONSIN DEPARTMENT OF NATURAL RESOURCES	HE & TLE	0.239	----	----	0.239	0.027
16	JENNIFER C. KIMINSKI AND JOHN R. KIMINSKI	FEE & TLE	0.000	1.102	3.491	4.593	0.118

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.  
THE PURPOSE OF ALL TLES IS FOR GRADING UNLESS NOTED.

DOCUMENT# 936504  
Recorded on  
06-20-2023 at 1:39 PM  
TRACY A MIDDLETON  
REGISTER OF DEEDS  
DOUGLAS COUNTY, WI  
Fee Amount: \$25.00  
Total Pages: 1

RESERVED FOR REGISTER OF DEEDS  
PROJECT NUMBER 8758-00-02 4.04

**UTILITY INTERESTS REQUIRED**

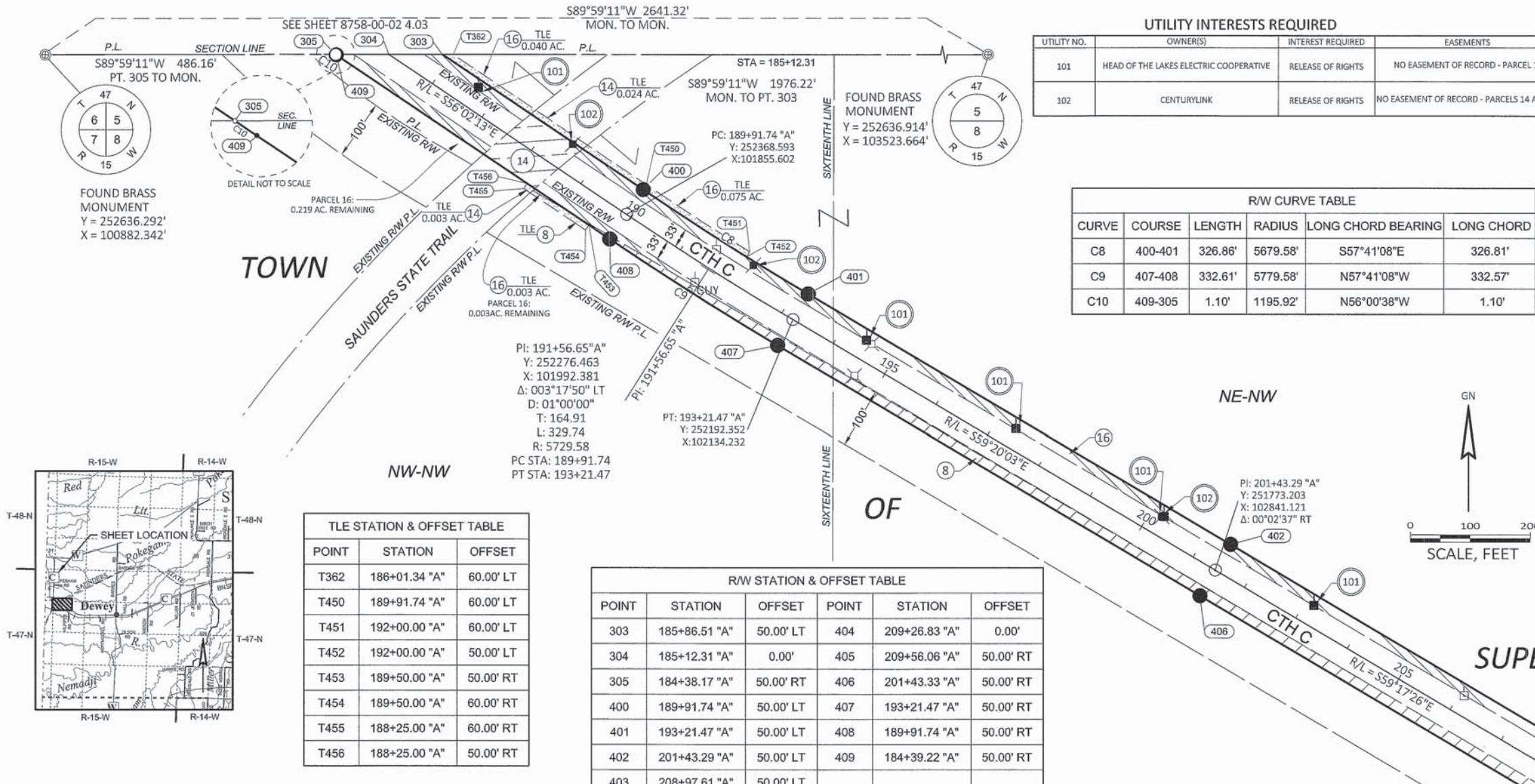
UTILITY NO.	OWNER(S)	INTEREST REQUIRED	EASEMENTS
101	HEAD OF THE LAKES ELECTRIC COOPERATIVE	RELEASE OF RIGHTS	NO EASEMENT OF RECORD - PARCEL 16
102	CENTURYLINK	RELEASE OF RIGHTS	NO EASEMENT OF RECORD - PARCELS 14 AND 16

**R/W CURVE TABLE**

CURVE	COURSE	LENGTH	RADIUS	LONG CHORD BEARING	LONG CHORD
C8	400-401	326.86'	5679.58'	S57°41'08"E	326.81'
C9	407-408	332.61'	5779.58'	N57°41'08"W	332.57'
C10	409-305	1.10'	1195.92'	N56°00'38"W	1.10'

**R/W COURSE TABLE**

COURSE	BEARING	DISTANCE
303-400	S56°02'13"E	405.23'
400-401	SEE CURVE TABLE	
401-402	S59°20'03"E	821.81'
402-403	S59°17'26"E	754.36'
403-404	S00°24'08"W	57.92'
404-405	S00°24'08"W	57.92'
405-406	N59°17'26"W	812.74'
406-407	N59°20'03"W	821.81'
407-408	SEE CURVE TABLE	
408-409	N56°02'13"W	552.52'
409-305	SEE CURVE TABLE	
305-304	N89°59'11"E	89.47'
304-303	N89°59'11"E	89.47'



**TLE STATION & OFFSET TABLE**

POINT	STATION	OFFSET
T362	186+01.34 "A"	60.00' LT
T450	189+91.74 "A"	60.00' LT
T451	192+00.00 "A"	60.00' LT
T452	192+00.00 "A"	50.00' LT
T453	189+50.00 "A"	50.00' RT
T454	189+50.00 "A"	60.00' RT
T455	188+25.00 "A"	60.00' RT
T456	188+25.00 "A"	50.00' RT

**R/W STATION & OFFSET TABLE**

POINT	STATION	OFFSET	POINT	STATION	OFFSET
303	185+86.51 "A"	50.00' LT	404	209+26.83 "A"	0.00'
304	185+12.31 "A"	0.00'	405	209+56.06 "A"	50.00' RT
305	184+38.17 "A"	50.00' RT	406	201+43.33 "A"	50.00' RT
400	189+91.74 "A"	50.00' LT	407	193+21.47 "A"	50.00' RT
401	193+21.47 "A"	50.00' LT	408	189+91.74 "A"	50.00' RT
402	201+43.29 "A"	50.00' LT	409	184+39.22 "A"	50.00' RT
403	208+97.61 "A"	50.00' LT			

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

ALL EXISTING IRON PINS ARE 1" UNLESS OTHERWISE NOTED.  
FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE DOUGLAS COUNTY HIGHWAY DEPARTMENT

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:  
CTH C: STATUTE 82.31 USING EXISTING CENTERLINE AND A PRESUMED WIDTH OF 66'  
HILPIPER RD: STATUTE 82.31 USING EXISTING CENTERLINE AND A PRESUMED WIDTH OF 66'

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 1/2" X 24" REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, AS DOCUMENT NO. 936333 FOR ADDITIONAL INFORMATION.

**WISCONSIN LAND SURVEYOR**  
CHRISTOPHER R. BADTKE  
S-3150  
EAU CLAIRE, WI

I, CHRISTOPHER R. BADTKE, 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 THE DOUGLAS COUNTY HIGHWAY DEPARTMENT, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE: 06/15/2023  
DATE: 6/20/2023

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



# TRANSPORTATION PROJECT PLAT NO: 8758-00-02 4.05

THAT PART OF THE NORTHWEST ¼ OF THE NORTHEAST ¼ AND THAT PART OF THE SOUTHWEST ¼ OF THE NORTHEAST ¼, AND THAT PART OF THE SOUTHWEST ¼ OF THE NORTHEAST ¼, ALL IN SECTION 8, TOWNSHIP 47 NORTH, RANGE 15 WEST, TOWN OF SUPERIOR, DOUGLAS COUNTY, WISCONSIN.

RELOCATION ORDER CTH C - MINNESOTA STATE LINE TO SITEK ROAD - DOUGLAS COUNTY  
 TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE DOUGLAS COUNTY HIGHWAY DEPARTMENT DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.  
 TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DOUGLAS COUNTY HIGHWAY DEPARTMENT 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 PROJECT.  
 2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE DOUGLAS COUNTY HIGHWAY DEPARTMENT, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

## SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NO.	OWNER(S)	INTEREST REQUIRED	R/W (ACRES)			
			HE	NEW	EXISTING	TOTAL
8	BNSF RAILWAY COMPANY	HE	1.704	---	---	1.704
17	DONALD W. DUDSIC	FEE	---	0.081	0.160	0.241
18	MICHAEL C. TOBIN AND ROBERTA E. TOBIN	FEE	---	0.526	1.972	2.498
19	KARI NEWMAN	FEE	---	0.495	1.696	2.191

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

## UTILITY INTERESTS REQUIRED

UTILITY NO.	OWNER(S)	INTEREST REQUIRED	EASEMENTS
101	HEAD OF THE LAKES ELECTRIC COOPERATIVE	RELEASE OF RIGHTS	NO EASEMENT OF RECORD PARCELS 8, 17, 18 AND 19

DOCUMENT# 936505  
 Recorded on 05-20-2023 at 1:39 PM  
 TRACY A. MIDDLETON  
 REGISTER OF DEEDS  
 DOUGLAS COUNTY, WI  
 Fee Amount: \$25.00  
 Total Pages: 1

RESERVED FOR REGISTER OF DEEDS  
 PROJECT NUMBER 8758-00-02 4.05

### R/W CURVE TABLE

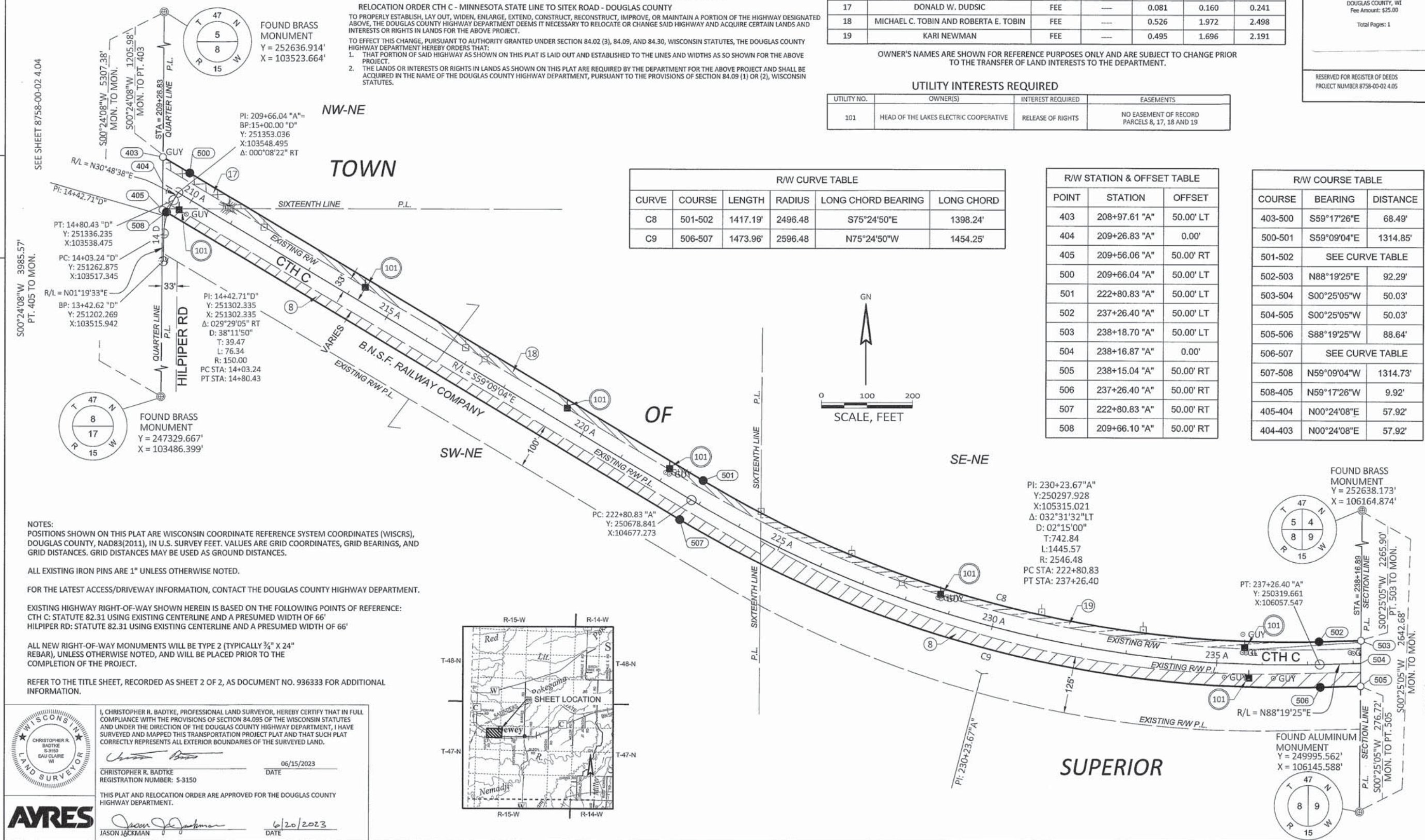
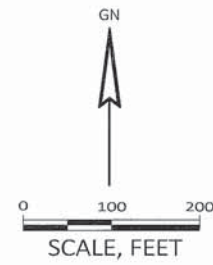
CURVE	COURSE	LENGTH	RADIUS	LONG CHORD BEARING	LONG CHORD
C8	501-502	1417.19'	2496.48	S75°24'50"E	1398.24'
C9	506-507	1473.96'	2596.48	N75°24'50"W	1454.25'

### R/W STATION & OFFSET TABLE

POINT	STATION	OFFSET
403	208+97.61 "A"	50.00' LT
404	209+26.83 "A"	0.00'
405	209+66.04 "A"	50.00' RT
500	209+66.04 "A"	50.00' LT
501	222+80.83 "A"	50.00' LT
502	237+26.40 "A"	50.00' LT
503	238+18.70 "A"	50.00' LT
504	238+16.87 "A"	0.00'
505	238+15.04 "A"	50.00' RT
506	237+26.40 "A"	50.00' RT
507	222+80.83 "A"	50.00' RT
508	209+66.10 "A"	50.00' RT

### R/W COURSE TABLE

COURSE	BEARING	DISTANCE
403-500	S59°17'26"E	68.49'
500-501	S59°09'04"E	1314.85'
501-502	SEE CURVE TABLE	
502-503	N88°19'25"E	92.29'
503-504	S00°25'05"W	50.03'
504-505	S00°25'05"W	50.03'
505-506	S88°19'25"W	88.64'
506-507	SEE CURVE TABLE	
507-508	N59°09'04"W	1314.73'
508-405	N59°17'26"W	9.92'
405-404	N00°24'08"E	57.92'
404-403	N00°24'08"E	57.92'



**NOTES:**  
 POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), DOUGLAS COUNTY, NAD83(2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.  
 ALL EXISTING IRON PINS ARE 1" UNLESS OTHERWISE NOTED.  
 FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE DOUGLAS COUNTY HIGHWAY DEPARTMENT.  
 EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:  
 CTH C: STATUTE 82.31 USING EXISTING CENTERLINE AND A PRESUMED WIDTH OF 66'  
 HILPIPER RD: STATUTE 82.31 USING EXISTING CENTERLINE AND A PRESUMED WIDTH OF 66'  
 ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 3/4" X 24" REBAR), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.  
 REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, AS DOCUMENT NO. 936333 FOR ADDITIONAL INFORMATION.

CHRISTOPHER R. BADTKE, 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 THE DOUGLAS COUNTY HIGHWAY DEPARTMENT, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

CHRISTOPHER R. BADTKE  
 REGISTRATION NUMBER: S-3150  
 DATE: 06/15/2023

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

JASON J. JACKMAN  
 DATE: 6/20/2023

**TRANSPORTATION PROJECT PLAT NO: 8758-00-02 4.06**

THAT PART OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 AND THAT PART OF THE SOUTHEAST 1/4 OF THE NORTHWEST 1/4, ALL IN SECTION 9, TOWNSHIP 47 NORTH, RANGE 15 WEST, TOWN OF SUPERIOR, DOUGLAS COUNTY, WISCONSIN.

RELOCATION ORDER CTH C - MINNESOTA STATE LINE TO SITEK ROAD - DOUGLAS COUNTY  
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE DOUGLAS COUNTY HIGHWAY DEPARTMENT DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DOUGLAS COUNTY HIGHWAY DEPARTMENT 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 PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE DOUGLAS COUNTY HIGHWAY DEPARTMENT, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

**SCHEDULE OF LANDS & INTERESTS REQUIRED**

PARCEL NO.	OWNER(S)	INTEREST REQUIRED	R/W (ACRES)			
			HE	NEW	EXISTING	TOTAL
8	BNSF RAILWAY COMPANY	HE	1.448	----	----	1.448
21	RICHARD STOLTZ AND SUSAN K. STOLTZ	FEE	----	0.502	1.669	2.171
22	JOSEPH P. KIMMES	FEE	----	0.513	1.893	2.406

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

DOCUMENT# 936506  
Recorded on  
06-20-2023 at 1:39 PM  
TRACY A MIDDLETON  
REGISTER OF DEEDS  
DOUGLAS COUNTY, WI  
Fee Amount: \$25.00  
Total Pages: 1

RESERVED FOR REGISTER OF DEEDS  
PROJECT NUMBER 8758-00-02 4.06

**UTILITY INTERESTS REQUIRED**

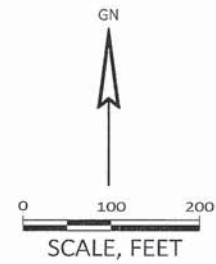
UTILITY NO.	OWNER(S)	INTEREST REQUIRED	EASEMENTS
101	HEAD OF THE LAKES ELECTRIC COOPERATIVE	RELEASE OF RIGHTS	NO EASEMENT OF RECORD PARCELS 8, 21 AND 22
102	CENTURYLINK	RELEASE OF RIGHTS	NO EASEMENT OF RECORD - PARCEL 21

**R/W COURSE TABLE**

COURSE	BEARING	DISTANCE
503-600	N88°19'25"E	1106.86'
600-601	N88°10'19"E	1339.55'
601-602	N88°16'13"E	177.99'
602-603	S00°03'45"W	50.02'
603-604	S00°03'45"W	50.02'
604-605	S88°16'13"W	174.77'
605-606	S88°10'19"W	1339.59'
606-505	S88°19'25"W	1110.65'
505-504	N00°25'05"E	50.03'
504-503	N00°25'05"E	50.03'

**R/W STATION & OFFSET TABLE**

POINT	STATION	OFFSET
503	238+18.70 "A"	50.00' LT
504	238+16.87 "A"	0.00'
505	238+15.04 "A"	50.00' RT
600	249+25.69 "A"	50.00' LT
601	262+65.19 "A"	50.00' LT
602	264+43.13 "A"	50.00' LT
603	264+41.57 "A"	0.00'
604	264+40.01 "A"	50.00' RT
605	262+65.23 "A"	50.00' RT
606	249+25.62 "A"	50.00' RT

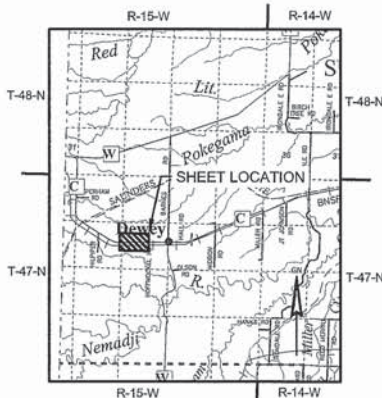
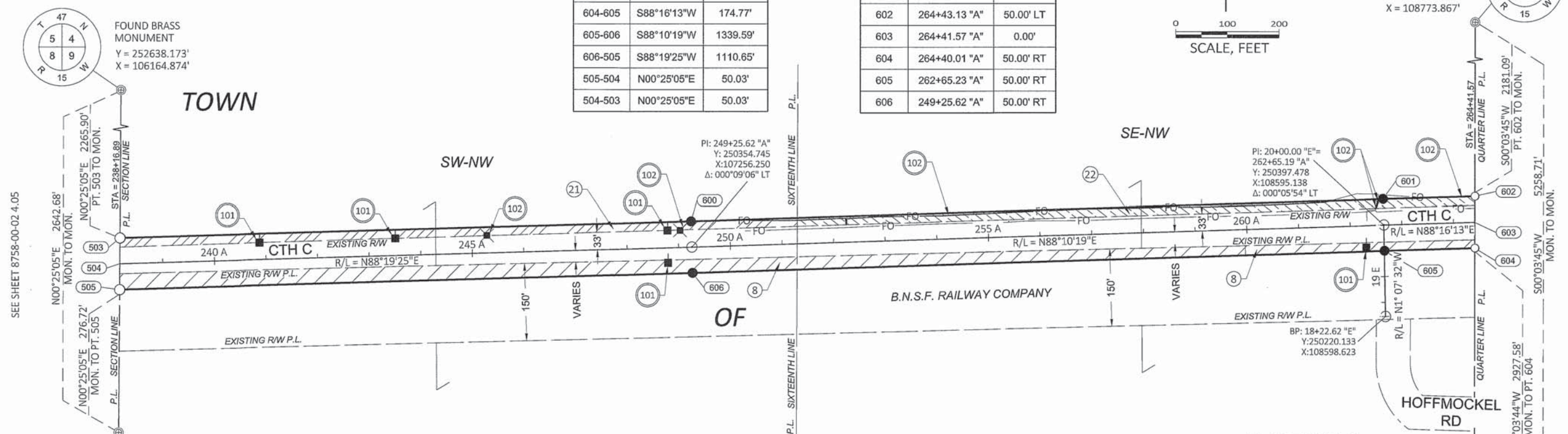


FOUND ALUMINUM MONUMENT  
Y = 252633.913'  
X = 108773.867'

FOUND BRASS MONUMENT  
Y = 252638.173'  
X = 106164.874'

FOUND ALUMINUM MONUMENT  
Y = 249995.562'  
X = 106145.588'

FOUND ALUMINUM MONUMENT  
Y = 247375.209'  
X = 108768.143'



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

ALL EXISTING IRON PINS ARE 1" UNLESS OTHERWISE NOTED.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE DOUGLAS COUNTY HIGHWAY DEPARTMENT

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:  
CTH C: STATUTE 82.31 USING EXISTING CENTERLINE AND A PRESUMED WIDTH OF 66'  
HOFFMOCKEL RD: STATUTE 82.31 USING EXISTING CENTERLINE AND A PRESUMED WIDTH OF 66'

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

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, AS DOCUMENT NO. 936333 FOR ADDITIONAL INFORMATION.

WISCONSIN LAND SURVEYOR  
CHRISTOPHER R. BADTKE  
5-3150  
EAU CLAIRE, WI

I, CHRISTOPHER R. BADTKE, 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 THE DOUGLAS COUNTY HIGHWAY DEPARTMENT, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

CHRISTOPHER R. BADTKE  
REGISTRATION NUMBER: 5-3150  
DATE: 06/15/2023

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

JASON JACKMAN  
DATE: 6/20/2023

**TRANSPORTATION PROJECT PLAT NO: 8758-00-02 4.07**

THAT PART OF THE SOUTHWEST ¼ OF THE NORTHEAST ¼ AND THAT PART OF THE SOUTHEAST ¼ OF THE NORTHEAST ¼, ALL IN SECTION 9, TOWNSHIP 47 NORTH, RANGE 15 WEST, TOWN OF SUPERIOR, DOUGLAS COUNTY, WISCONSIN.

RELOCATION ORDER CTH C - MINNESOTA STATE LINE TO SITEK ROAD - DOUGLAS COUNTY  
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE DOUGLAS COUNTY HIGHWAY DEPARTMENT DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DOUGLAS COUNTY HIGHWAY DEPARTMENT 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 PROJECT.  
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE DOUGLAS COUNTY HIGHWAY DEPARTMENT, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

PARCEL NO.	OWNER(S)	INTEREST REQUIRED	R/W (ACRES)				
			HE	NEW	EXISTING	TOTAL	TLE
8	BNSF RAILWAY COMPANY	HE	1.324	---	---	1.324	---
23	TERESA JANE DECKER-VANOVERMEIREN	FEE & TLE	---	0.657	2.008	2.665	0.131
24	GRANT MCDONOUGH	FEE & TLE	---	0.474	1.622	2.096	0.145

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.  
THE PURPOSE OF ALL TLES IS FOR GRADING, UNLESS NOTED.

DOCUMENT# 936507  
Recorded on  
06-20-2023 at 1:39 PM  
TRACY A MIDDLETON  
REGISTER OF DEEDS  
DOUGLAS COUNTY, WI  
Fee Amount: \$25.00  
Total Pages: 1

RESERVED FOR REGISTER OF DEEDS  
PROJECT NUMBER 8758-00-02 4.07

**UTILITY INTERESTS REQUIRED**

UTILITY NO.	OWNER(S)	INTEREST REQUIRED	EASEMENTS
102	CENTURYLINK	RELEASE OF RIGHTS	NO EASEMENT OF RECORD - PARCEL 23

**TLE STATION & OFFSET TABLE**

POINT	STATION	OFFSET
T750	272+00.00 "A"	50.00' LT
T751	272+00.00 "A"	60.00' LT
T752	276+77.36 "A"	60.00' LT
T753	284+00.00 "A"	60.00' LT
T754	284+00.00 "A"	50.00' LT

**R/W STATION & OFFSET TABLE**

POINT	STATION	OFFSET
602	264+43.13 "A"	50.00' LT
603	264+41.57 "A"	0.00'
604	264+40.01 "A"	50.00' RT
700	276+77.36 "A"	50.00' LT
701	290+60.69 "A"	50.00' LT
702	290+91.64 "A"	50.00' LT
703	290+93.54 "A"	50.00' LT
704	290+92.04 "A"	0.00'
705	290+90.37 "A"	50.00' RT
706	276+77.40 "A"	50.00' RT

**R/W COURSE TABLE**

COURSE	BEARING	DISTANCE
602-700	N88°16'13"E	1234.22'
700-701	N88°19'09"E	1383.38'
701-702	N88°19'09"E	31.03'
702-703	N88°30'33"E	1.99'
703-704	S00°13'48"W	50.02'
704-705	S00°13'48"W	50.03'
705-706	S88°19'09"W	1412.97'
706-604	S88°16'13"W	1237.35'
604-603	N00°03'45"E	50.02'
604-603	N00°03'45"E	50.02'



FOUND 3/4" REBAR  
Y = 252659.137'  
X = 111429.482'

EP: 26+95.40 "F"  
Y: 250676.982  
X: 111420.918

R/L = N00°10'14"E  
BP: 22+92.18 "F"  
Y: 250273.761  
X: 111419.717

FOUND 3/4" REBAR  
Y = 250023.303'  
X = 111418.895'

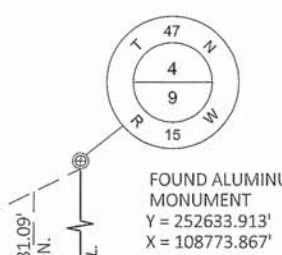
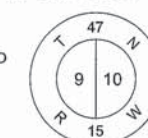
STA = 290+92.04  
P.L. SECTION LINE

N00°13'48"E 2127.54'  
PT. 703 TO MON.

N00°13'48"E 2635.86'  
MON. TO MON.

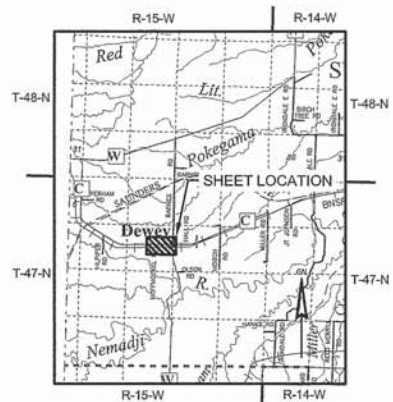
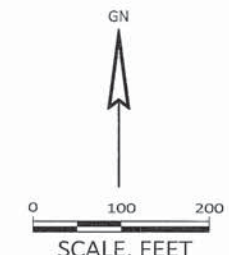
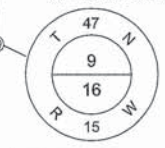
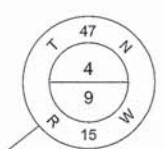
PI: 290+91.64 "A" =  
25+00.00 "F"  
Y: 250481.581  
X: 111420.336  
A: 000°11'24" RT

N00°13'48"E 408.27'  
MON. TO PT. 705



FOUND ALUMINUM MONUMENT  
Y = 252633.913'  
X = 108773.867'

FOUND ALUMINUM MONUMENT  
Y = 247375.209'  
X = 108768.143'



P.L. SIXTEENTH LINE

P.L. SIXTEENTH LINE

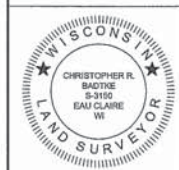
NOTES:  
POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), DOUGLAS COUNTY, NAD83(2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.  
ALL EXISTING IRON PINS ARE 1" UNLESS OTHERWISE NOTED.  
FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE DOUGLAS COUNTY HIGHWAY DEPARTMENT  
EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:  
CTH C: STATUTE 82.31 USING EXISTING CENTERLINE AND A PRESUMED WIDTH OF 66'  
BARNES RD: STATUTE 82.31 USING EXISTING CENTERLINE AND A PRESUMED WIDTH OF 66'  
ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 3/4" X 24" REBAR), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.  
REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, AS DOCUMENT NO. 936333 FOR ADDITIONAL INFORMATION.

SEE SHEET 8758-00-02 4.06

SEE SHEET 8758-00-02 4.08

4

4



I, CHRISTOPHER R. BADTKE, 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 THE DOUGLAS COUNTY HIGHWAY DEPARTMENT, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

CHRISTOPHER R. BADTKE  
REGISTRATION NUMBER: 5-3150  
DATE: 06/15/2023



THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE DOUGLAS COUNTY HIGHWAY DEPARTMENT.  
JASON JACKMAN  
DATE: 6/20/2023

# TRANSPORTATION PROJECT PLAT NO: 8758-00-02 4.08

THAT PART OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 SECTION 10, TOWNSHIP 47 NORTH, RANGE 15 WEST, TOWN OF SUPERIOR, DOUGLAS COUNTY, WISCONSIN.

RELOCATION ORDER CTH C - MINNESOTA STATE LINE TO SITEK ROAD - DOUGLAS COUNTY  
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE DOUGLAS COUNTY HIGHWAY DEPARTMENT DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

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

- 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 PROJECT.
- THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE DOUGLAS COUNTY HIGHWAY DEPARTMENT, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

**NOTES:**

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

ALL EXISTING IRON PINS ARE 1" UNLESS OTHERWISE NOTED.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE DOUGLAS COUNTY HIGHWAY DEPARTMENT

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

- CTH C: STATUTE 82.31 USING EXISTING CENTERLINE AND A PRESUMED WIDTH OF 66'
- BARNES RD: STATUTE 82.31 USING EXISTING CENTERLINE AND A PRESUMED WIDTH OF 66'

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

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, AS DOCUMENT NO. 936333 FOR ADDITIONAL INFORMATION.

## SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NO.	OWNER(S)	INTEREST REQUIRED	R/W (ACRES)			
			HE	NEW	EXISTING	TOTAL
8	BNSF RAILWAY COMPANY	HE	0.842	---	---	0.842
26	LEROY KIMINSKI AND PAULA KIMINSKI	FEE	---	0.197	1.174	1.371

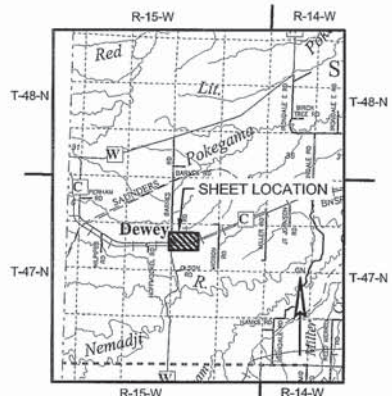
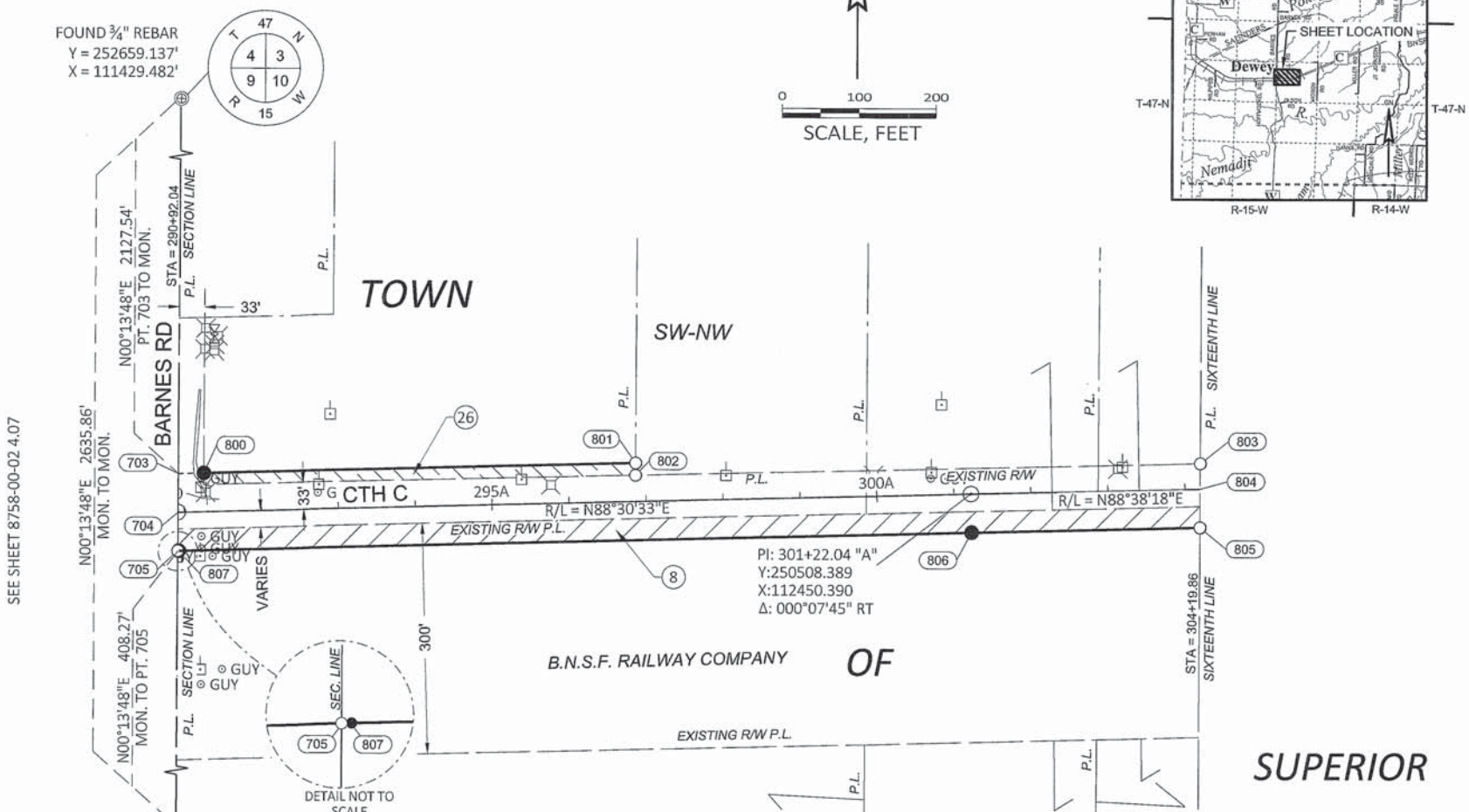
OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

DOCUMENT# 936510  
Recorded on  
06-21-2023 at 8:00 AM  
TRACY A MIDDLETON  
REGISTER OF DEEDS  
DOUGLAS COUNTY, WI  
Fee Amount: \$25.00  
Total Pages: 1

RESERVED FOR REGISTER OF DEEDS  
PROJECT NUMBER 8758-00-02 4.08

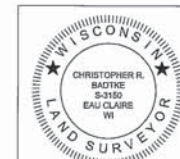
4

4



R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
703-800	N88°30'33"E	33.01'
800-801	N88°30'33"E	561.25'
801-802	S00°13'48"W	15.93'
802-803	N88°38'36"E	733.49'
803-804	S00°10'31"W	33.05'
804-805	S00°10'31"W	50.02'
805-806	S88°38'18"W	296.42'
806-807	S88°30'33"W	1030.26'
807-705	S88°19'09"W	1.19'
705-704	N00°13'48"E	50.03'
704-703	N00°13'48"E	50.02'

R/W STATION & OFFSET TABLE		
POINT	STATION	OFFSET
703	290+93.54 "A"	50.00' LT
704	290+92.04 "A"	0.00'
705	290+90.37 "A"	50.00' RT
800	291+26.56 "A"	50.00' LT
801	296+87.81 "A"	50.00' LT
802	296+87.33 "A"	34.08' LT
803	304+20.74 "A"	33.04' LT
804	304+19.86 "A"	0.00'
805	304+18.52 "A"	50.00' RT
806	301+21.99 "A"	50.00' RT
807	290+91.56 "A"	50.00' RT

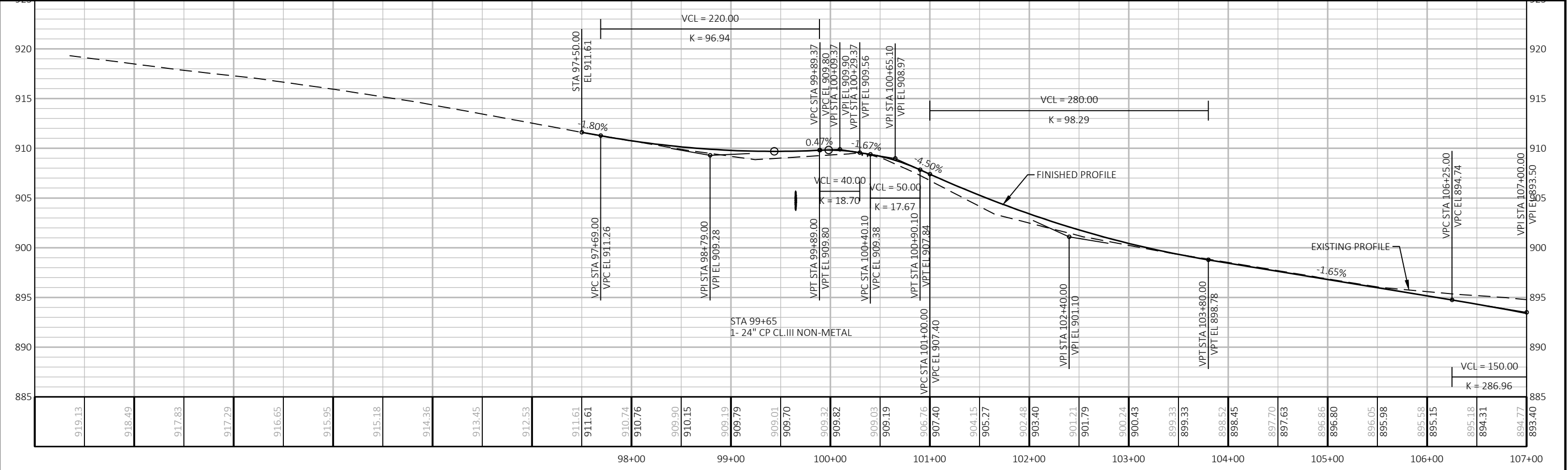
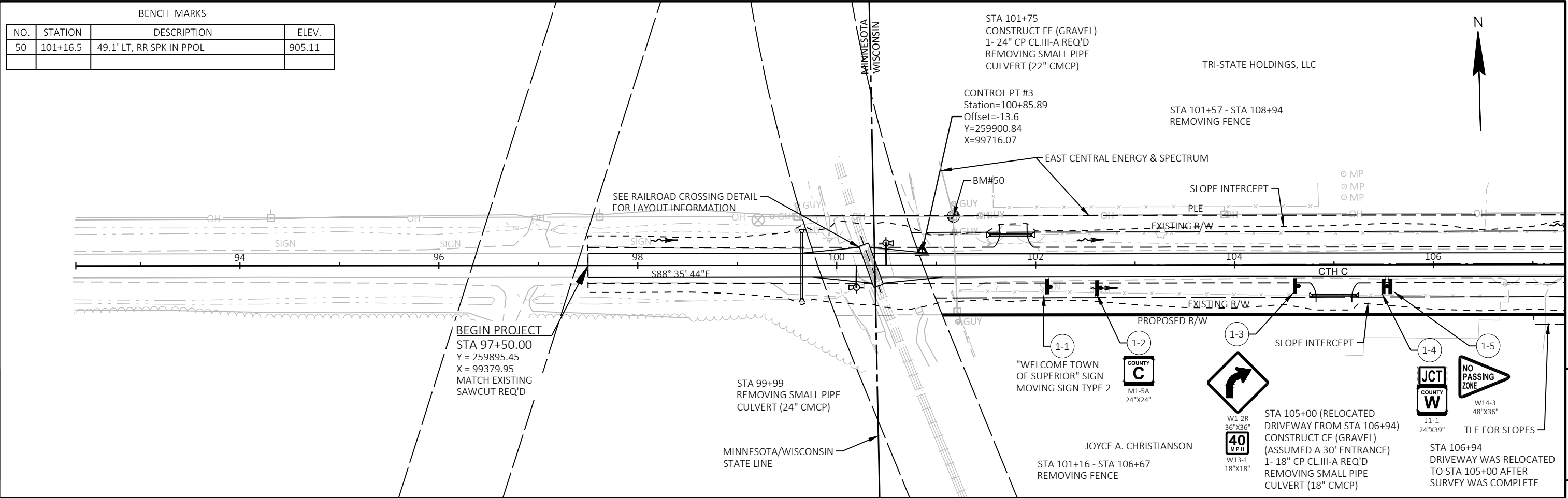


I, CHRISTOPHER R. BADTKE, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DOUGLAS COUNTY HIGHWAY DEPARTMENT, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

CHRISTOPHER R. BADTKE  
REGISTRATION NUMBER: 5-3150  
DATE: 06/15/2023



THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE DOUGLAS COUNTY HIGHWAY DEPARTMENT.  
JASON JACKMAN  
DATE: 6/20/2023



PROJECT NO: 8758-00-72	HWY: CTH C	COUNTY: DOUGLAS	PLAN AND PROFILE: CTH C	SHEET	<b>E</b>
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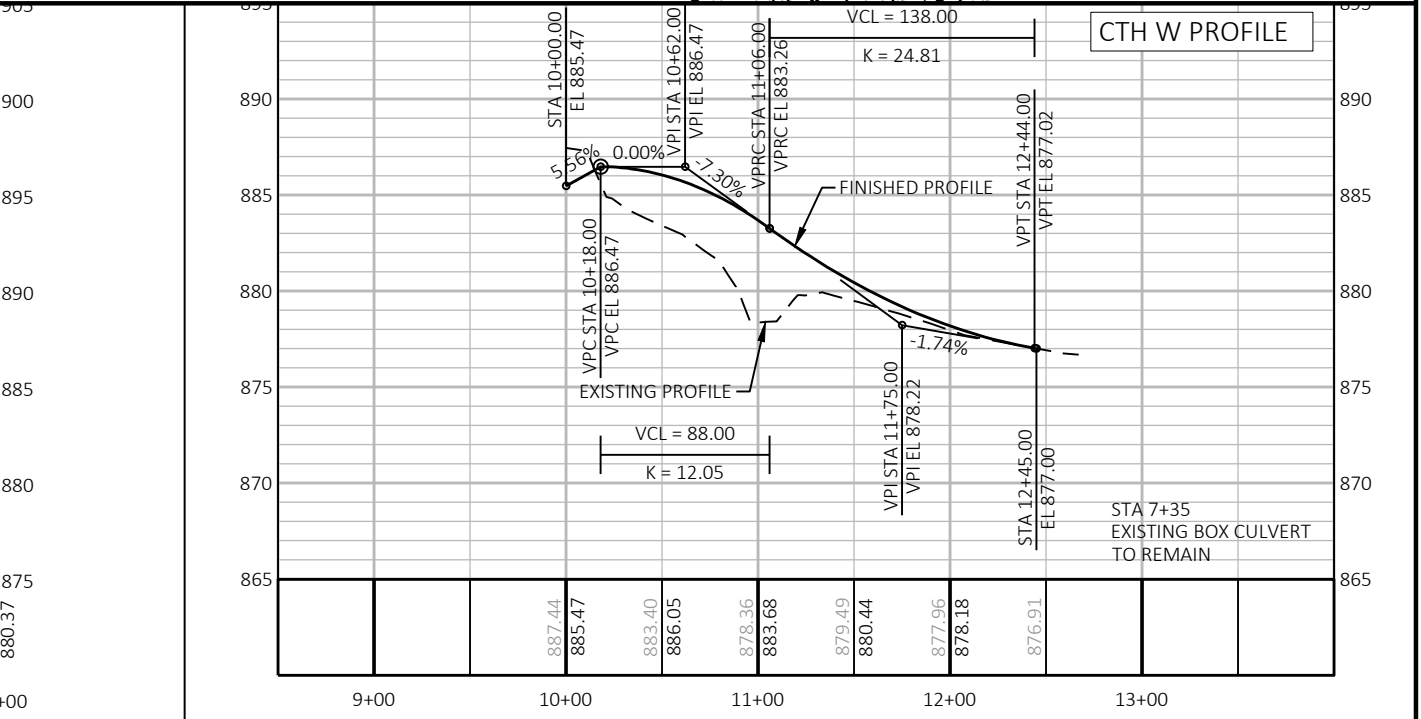
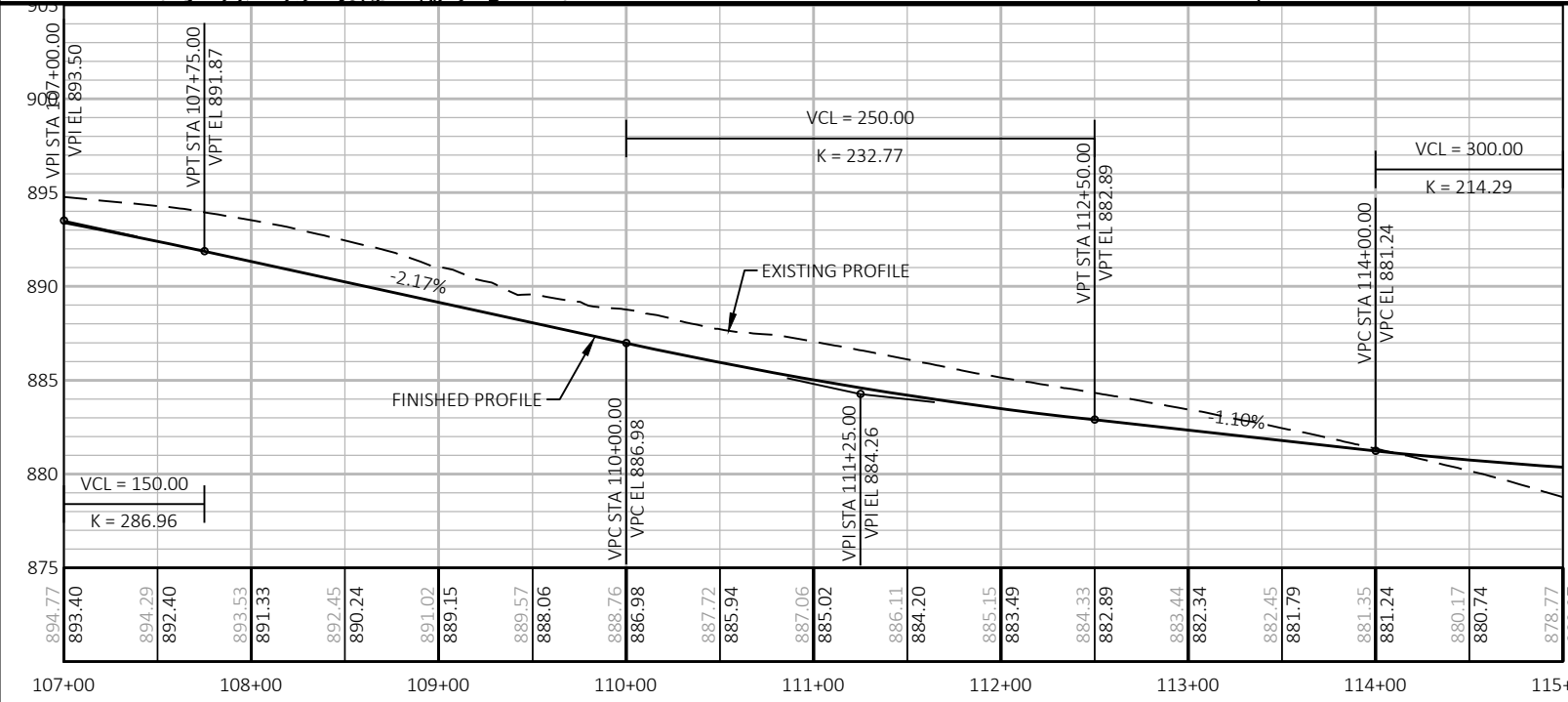
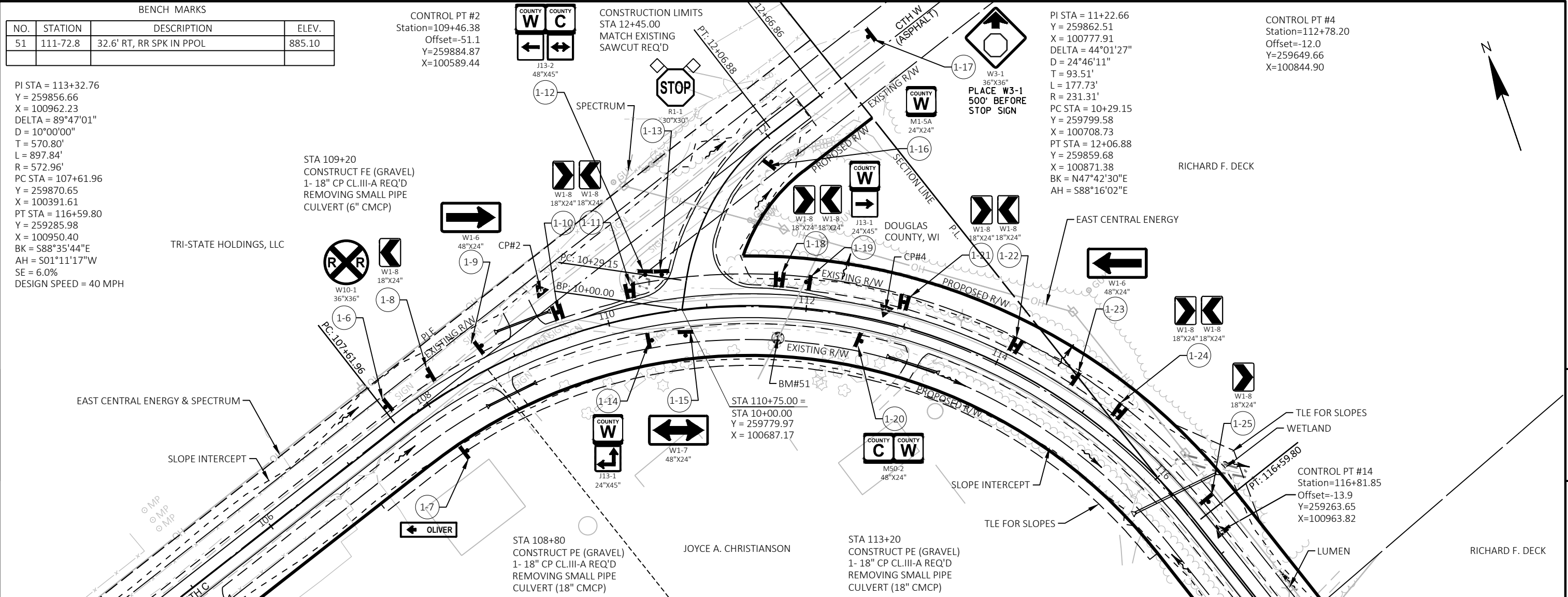
BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
51	111+72.8	32.6' RT, RR SPK IN PPOL	885.10

CONTROL PT #2  
 Station=109+46.38  
 Offset=-51.1  
 Y=259884.87  
 X=100589.44

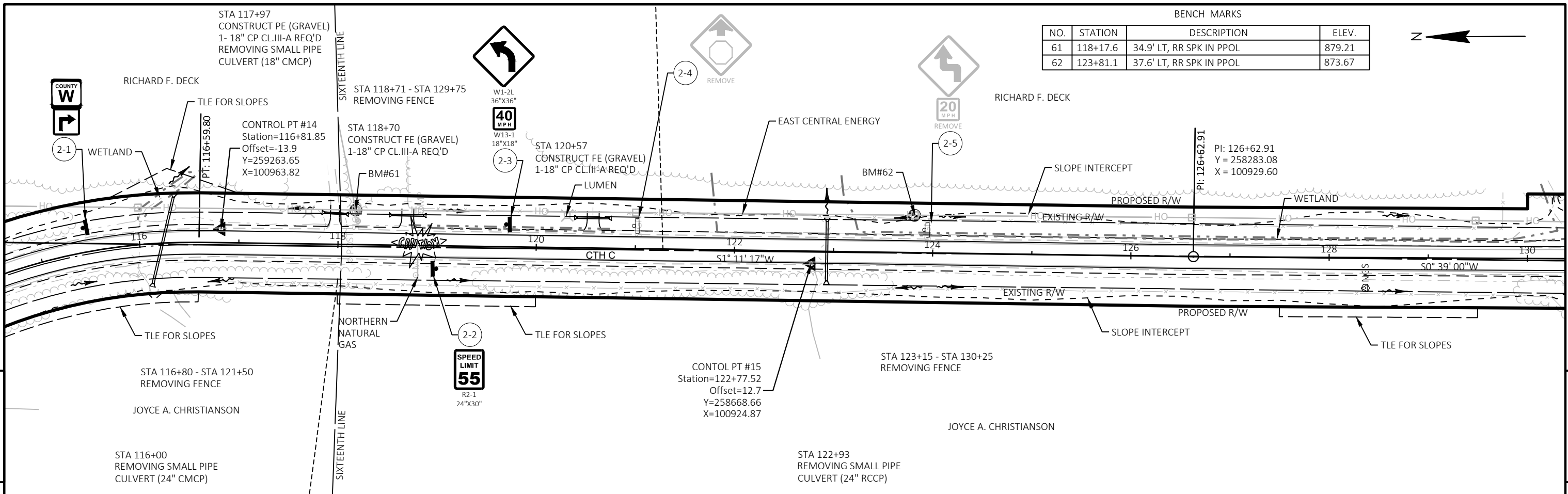
PI STA = 113+32.76  
 Y = 259856.66  
 X = 100962.23  
 DELTA = 89°47'01"  
 D = 10°00'00"  
 T = 570.80'  
 L = 897.84'  
 R = 572.96'  
 PC STA = 107+61.96  
 Y = 259870.65  
 X = 100391.61  
 PT STA = 116+59.80  
 Y = 259285.98  
 X = 100950.40  
 BK = S88°35'44"E  
 AH = S01°11'17"W  
 SE = 6.0%  
 DESIGN SPEED = 40 MPH

PI STA = 11+22.66  
 Y = 259862.51  
 X = 100777.91  
 DELTA = 44°01'27"  
 D = 24°46'11"  
 T = 93.51'  
 L = 177.73'  
 R = 231.31'  
 PC STA = 10+29.15  
 Y = 259799.58  
 X = 100708.73  
 PT STA = 12+06.88  
 Y = 259859.68  
 X = 100871.38  
 BK = N47°42'30"E  
 AH = S88°16'02"E

CONTROL PT #4  
 Station=112+78.20  
 Offset=-12.0  
 Y=259649.66  
 X=100844.90



PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      PLAN AND PROFILE: CTH C      SHEET: E

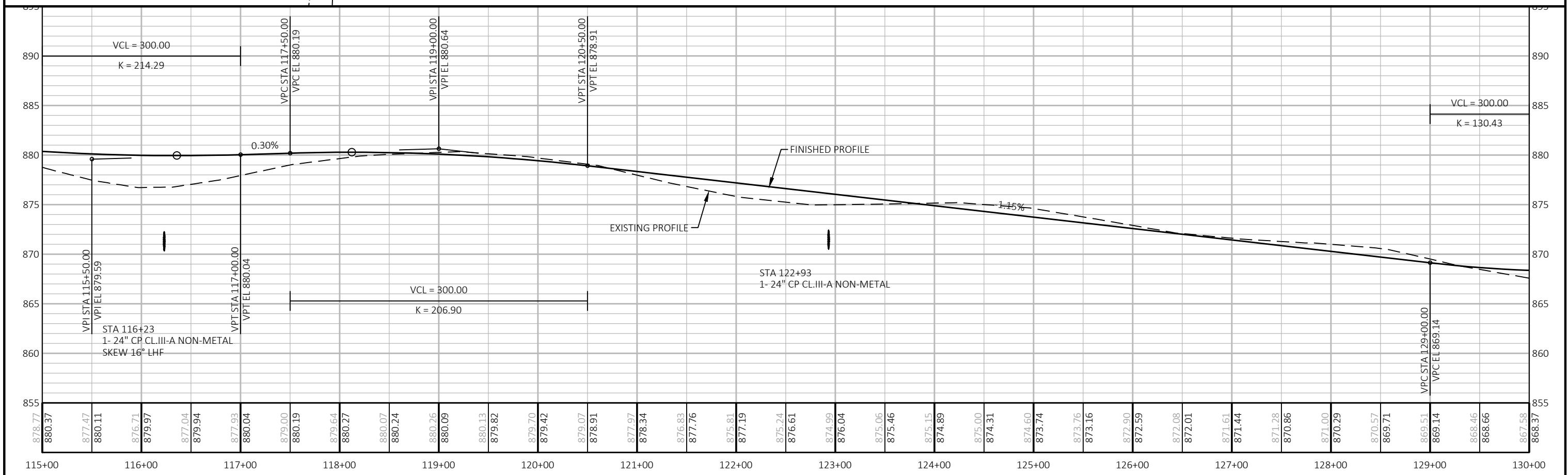


BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
61	118+17.6	34.9' LT, RR SPK IN PPOL	879.21
62	123+81.1	37.6' LT, RR SPK IN PPOL	873.67



5

5



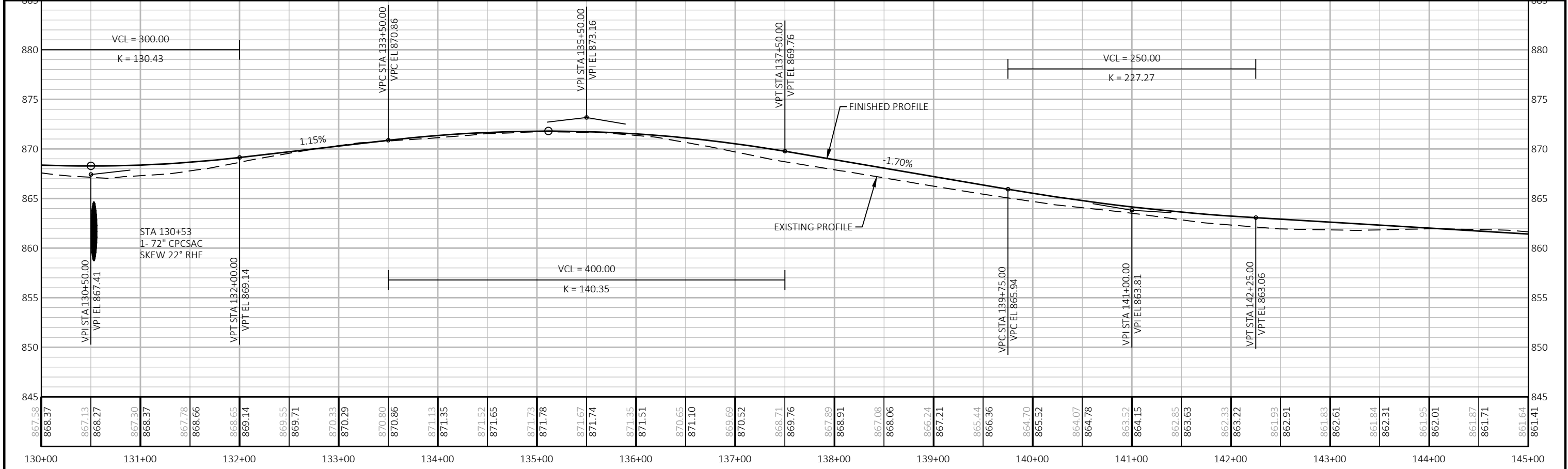
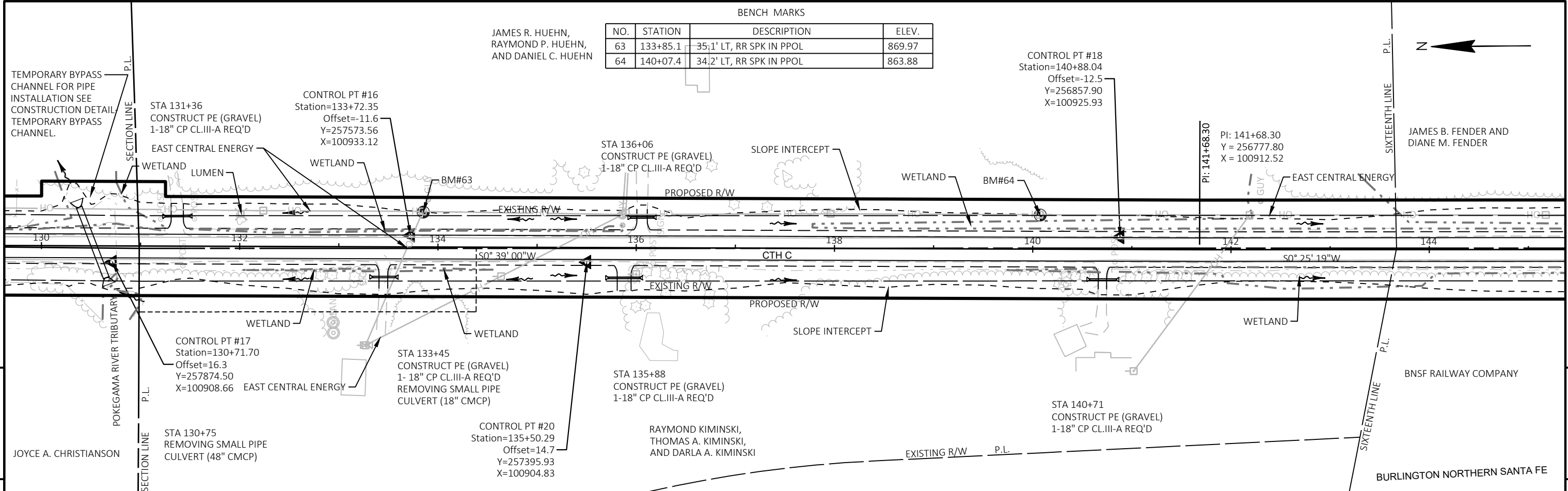
PROJECT NO: 8758-00-72	HWY: CTH C	COUNTY: DOUGLAS	PLAN AND PROFILE: CTH C	SHEET	E
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JAMES R. HUEHN,  
RAYMOND P. HUEHN,  
AND DANIEL C. HUEHN

NO.	STATION	DESCRIPTION	ELEV.
63	133+85.1	35.1' LT, RR SPK IN PPOL	869.97
64	140+07.4	34.2' LT, RR SPK IN PPOL	863.88

CONTROL PT #18  
Station=140+88.04  
Offset=-12.5  
Y=256857.90  
X=100925.93

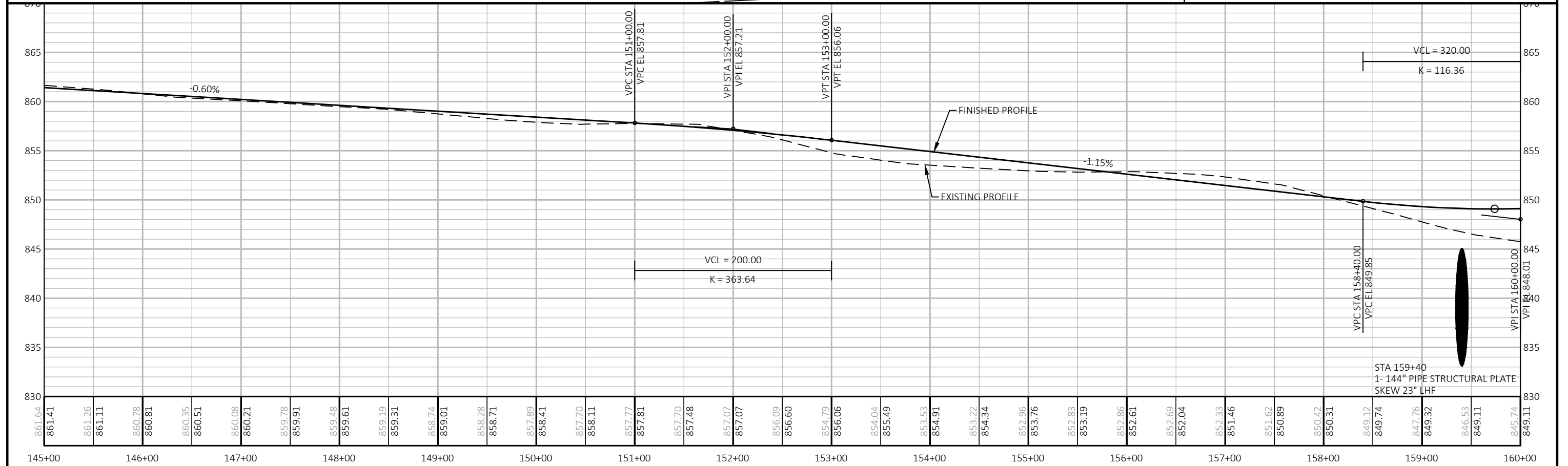
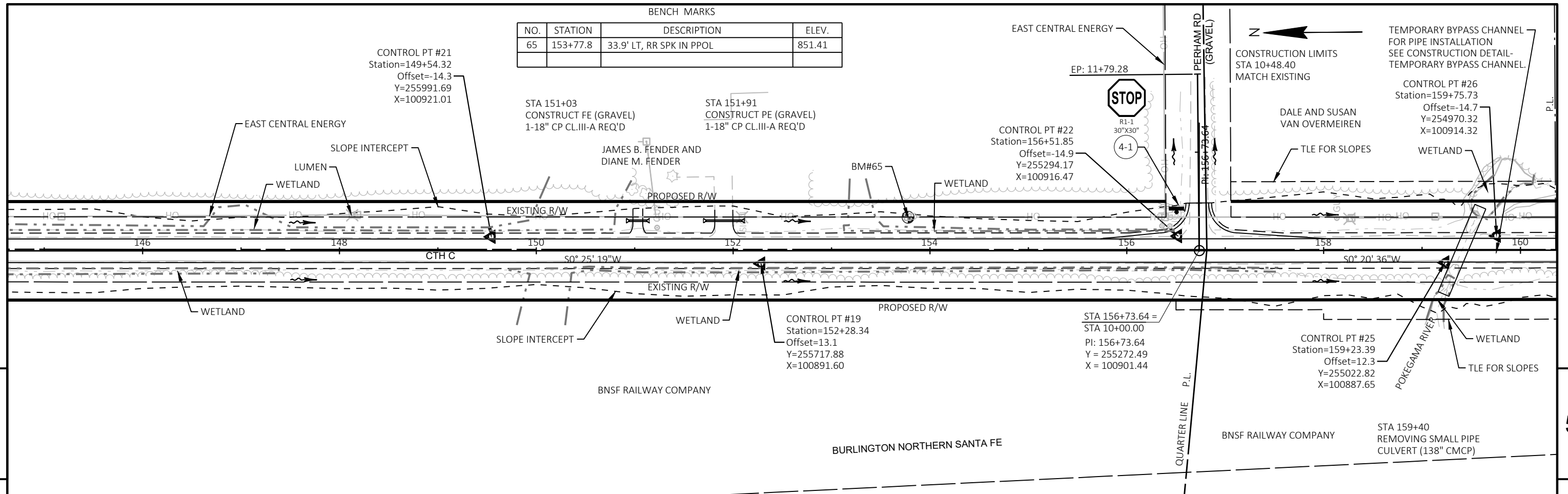
PI: 141+68.30  
Y = 256777.80  
X = 100912.52



PROJECT NO: 8758-00-72	HWY: CTH C	COUNTY: DOUGLAS	PLAN AND PROFILE: CTH C	SHEET	<b>E</b>
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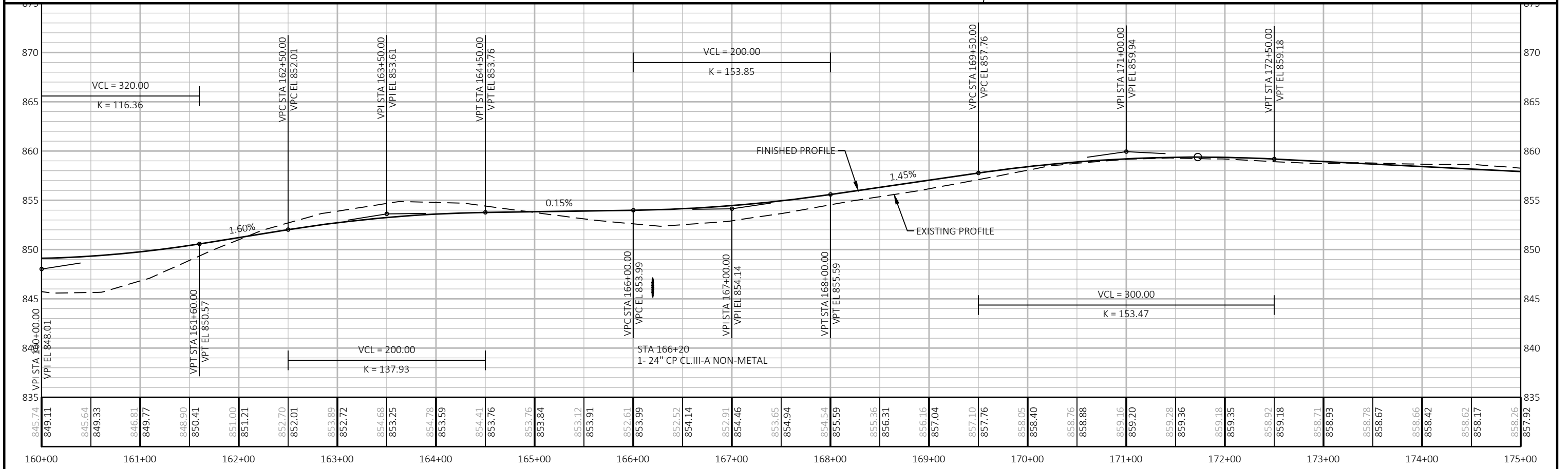
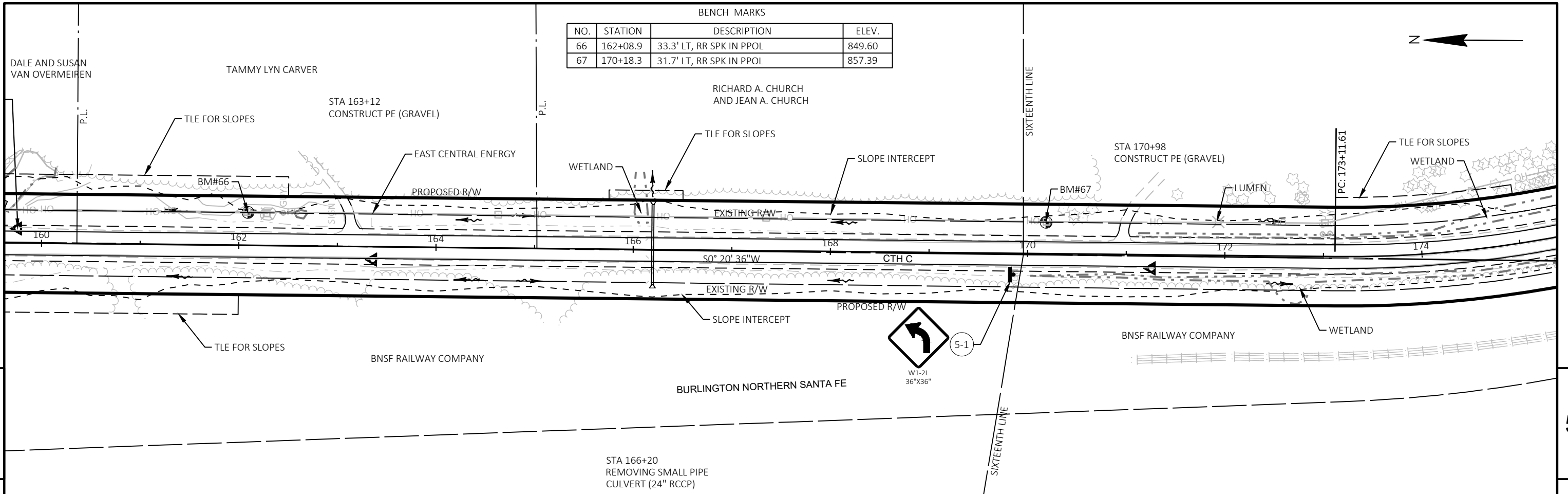


BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
65	153+77.8	33.9' LT, RR SPK IN PPOL	851.41

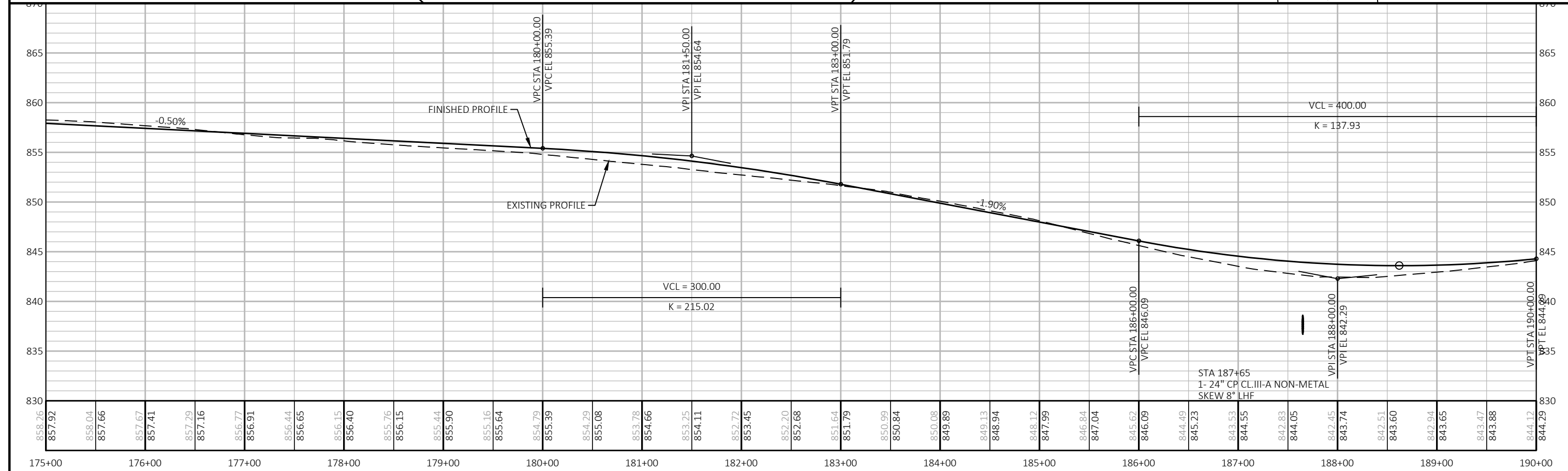
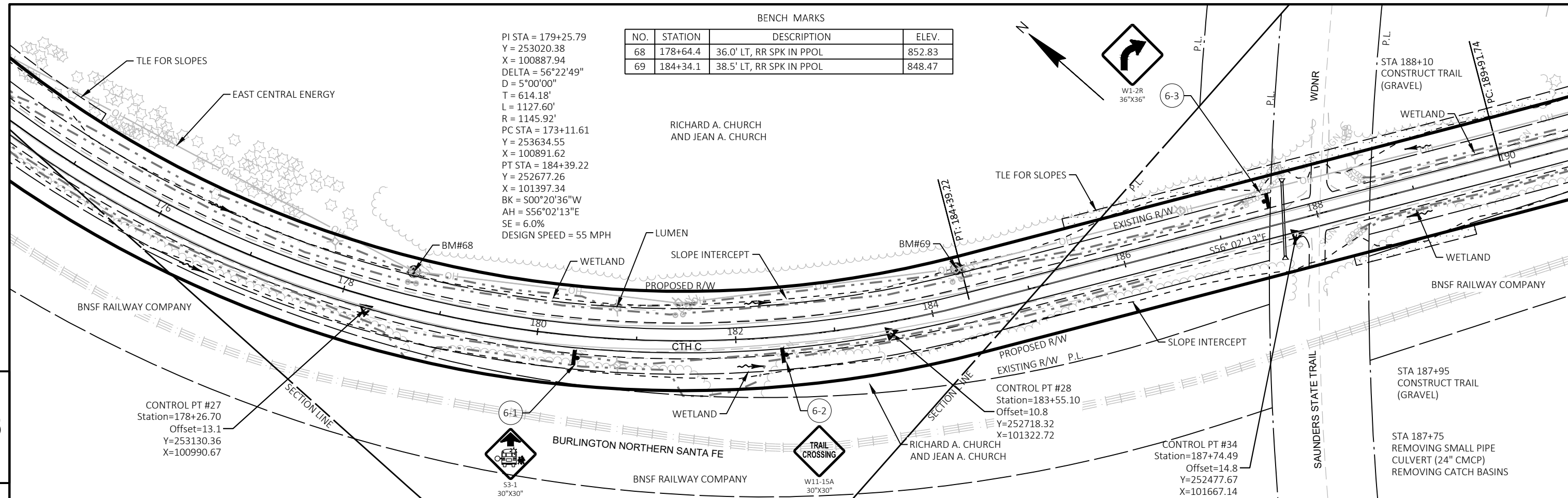


PROJECT NO: 8758-00-72	HWY: CTH C	COUNTY: DOUGLAS	PLAN AND PROFILE: CTH C	SHEET	<b>E</b>
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BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
66	162+08.9	33.3' LT, RR SPK IN PPOL	849.60
67	170+18.3	31.7' LT, RR SPK IN PPOL	857.39



PROJECT NO: 8758-00-72	HWY: CTH C	COUNTY: DOUGLAS	PLAN AND PROFILE: CTH C	SHEET	<b>E</b>
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PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      PLAN AND PROFILE: CTH C      SHEET      E

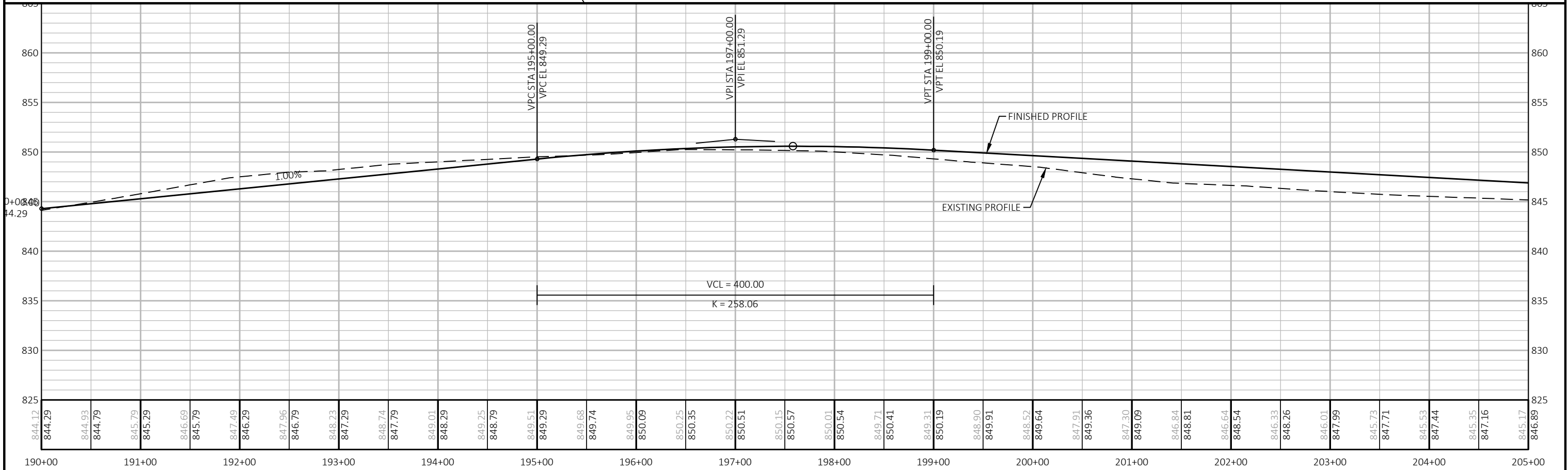
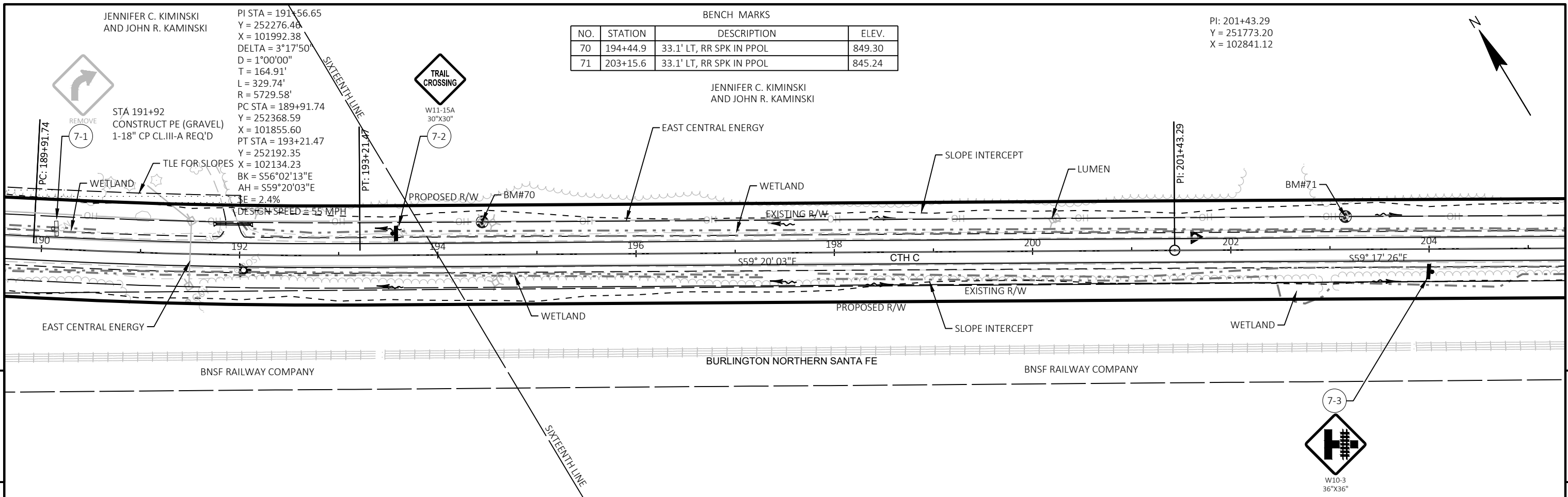
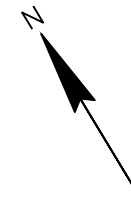
JENNIFER C. KIMINSKI  
AND JOHN R. KAMINSKI

PI STA = 191+56.65  
Y = 252276.46  
X = 101992.38  
DELTA = 3°17'50"  
D = 1°00'00"  
T = 164.91'  
L = 329.74'  
R = 5729.58'  
PC STA = 189+91.74  
Y = 252368.59  
X = 101855.60  
PT STA = 193+21.47  
Y = 252192.35  
X = 102134.23  
BK = S56°02'13"E  
AH = S59°20'03"E  
E = 2.4%

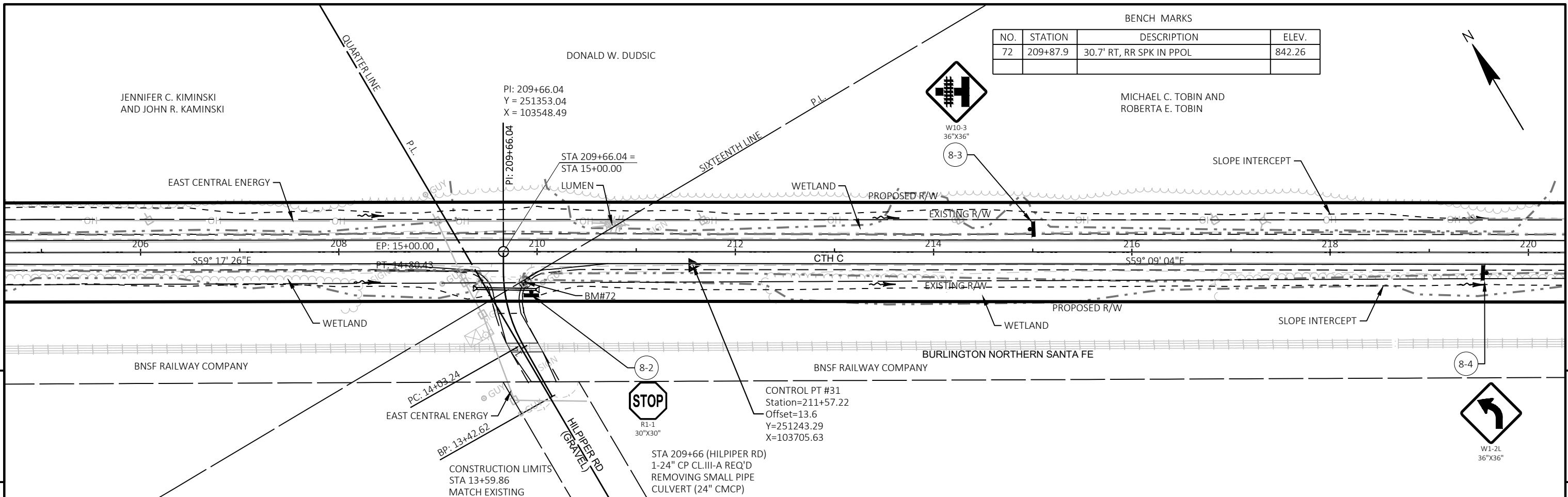
BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
70	194+44.9	33.1' LT, RR SPK IN PPOL	849.30
71	203+15.6	33.1' LT, RR SPK IN PPOL	845.24

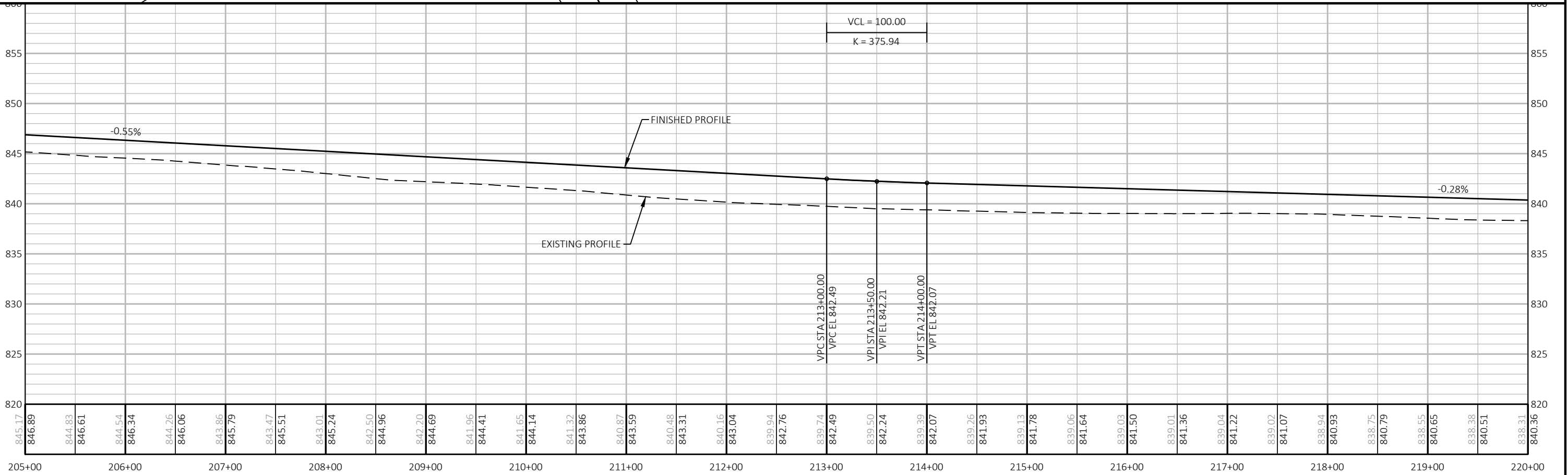
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Y = 251773.20  
X = 102841.12



PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      PLAN AND PROFILE: CTH C      SHEET: 5



BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
72	209+87.9	30.7' RT, RR SPK IN PPOL	842.26

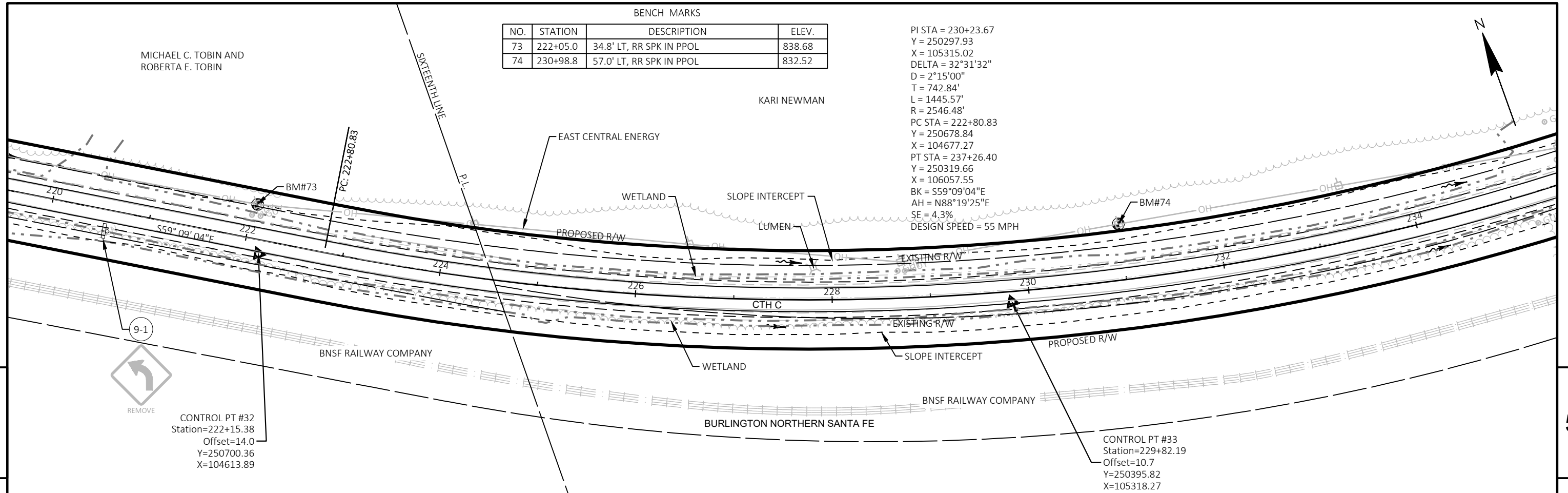


PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      PLAN AND PROFILE: CTH C      SHEET      E

MICHAEL C. TOBIN AND  
ROBERTA E. TOBIN

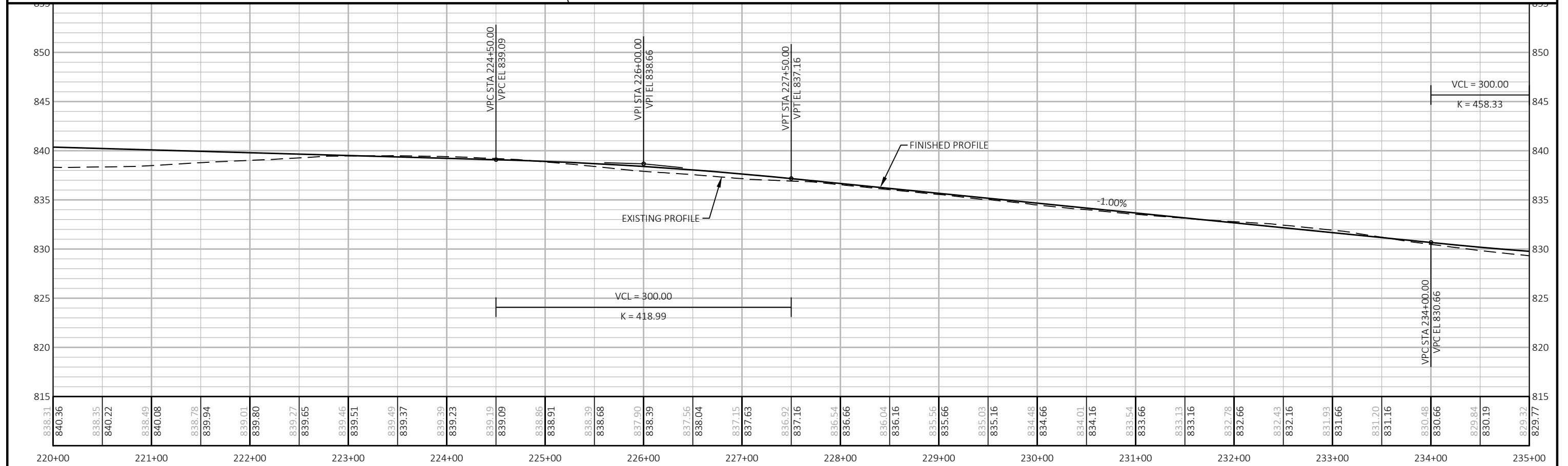
BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
73	222+05.0	34.8' LT, RR SPK IN PPOL	838.68
74	230+98.8	57.0' LT, RR SPK IN PPOL	832.52

PI STA = 230+23.67  
Y = 250297.93  
X = 105315.02  
DELTA = 32°31'32"  
D = 2°15'00"  
T = 742.84'  
L = 1445.57'  
R = 2546.48'  
PC STA = 222+80.83  
Y = 250678.84  
X = 104677.27  
PT STA = 237+26.40  
Y = 250319.66  
X = 106057.55  
BK = S59°09'04"E  
AH = N88°19'25"E  
SE = 4.3%  
DESIGN SPEED = 55 MPH



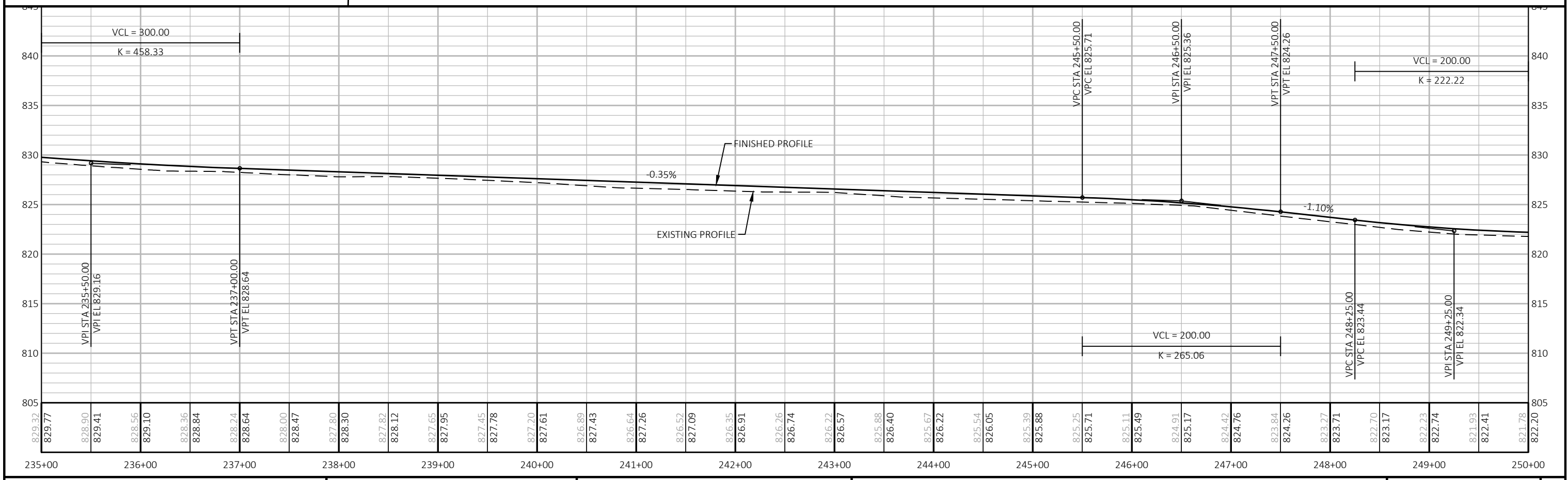
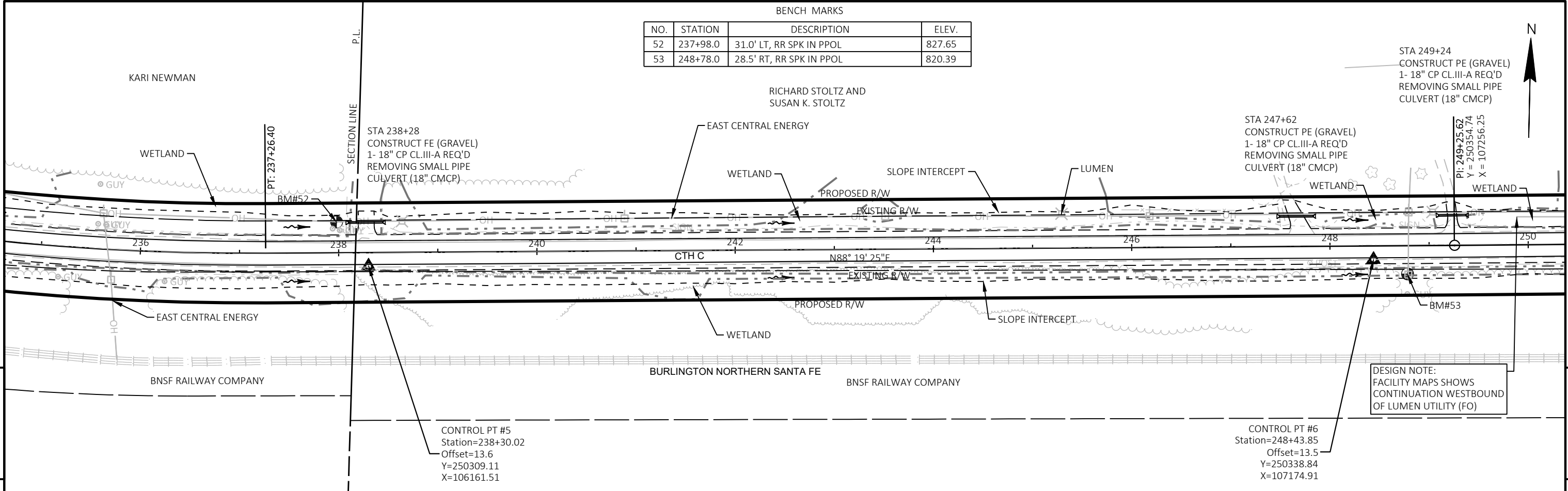
CONTROL PT #32  
Station=222+15.38  
Offset=14.0  
Y=250700.36  
X=104613.89

CONTROL PT #33  
Station=229+82.19  
Offset=10.7  
Y=250395.82  
X=105318.27



PROJECT NO: 8758-00-72	HWY: CTH C	COUNTY: DOUGLAS	PLAN AND PROFILE: CTH C	SHEET	<b>E</b>
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BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
52	237+98.0	31.0' LT, RR SPK IN PPOL	827.65
53	248+78.0	28.5' RT, RR SPK IN PPOL	820.39



PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      PLAN AND PROFILE: CTH C      SHEET: 5

BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
54	262+28.1	31.1' LT, RR SPK IN PPOL	817.78

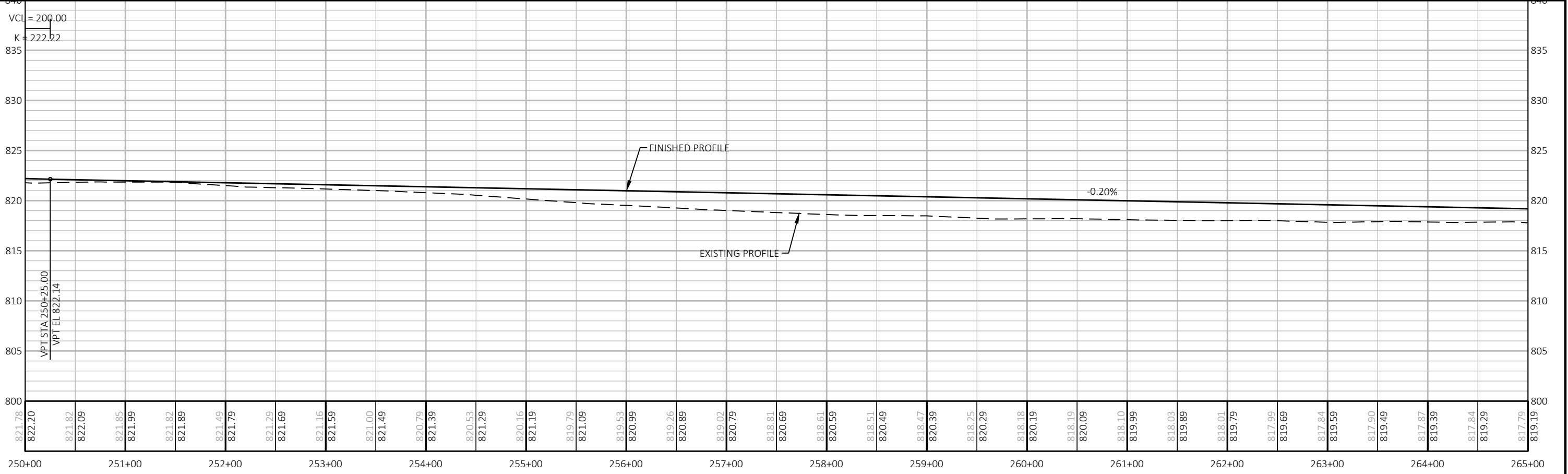
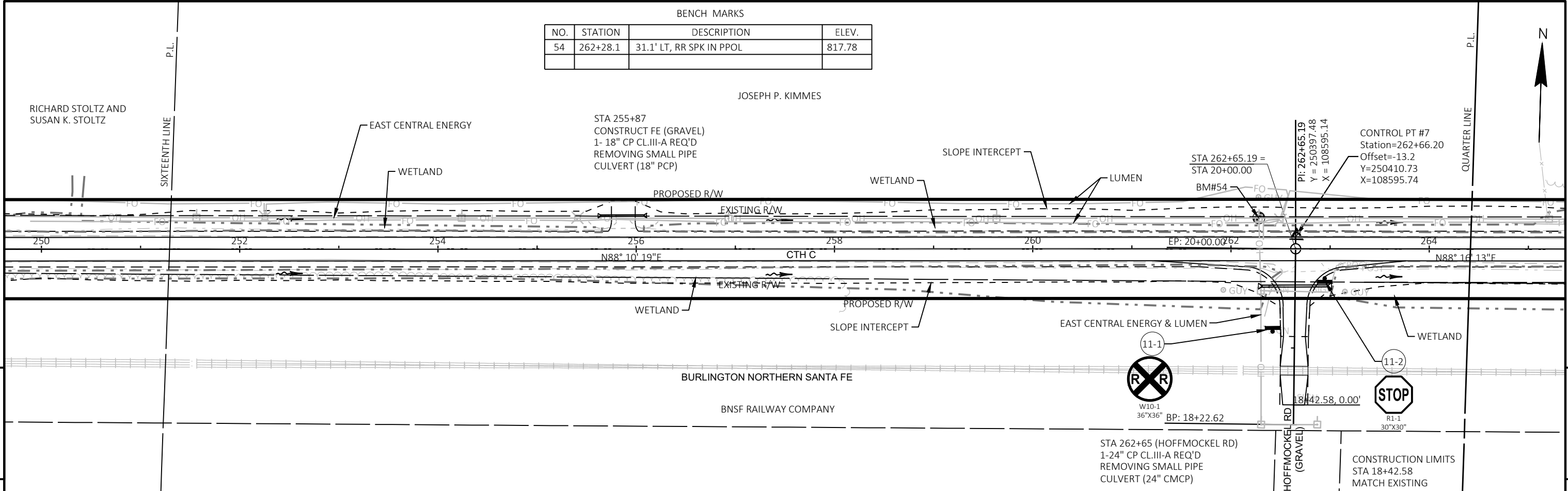
RICHARD STOLTZ AND  
SUSAN K. STOLTZ

JOSEPH P. KIMMES

STA 255+87  
CONSTRUCT FE (GRAVEL)  
1- 18" CP CL.III-A REQ'D  
REMOVING SMALL PIPE  
CULVERT (18" PCP)

STA 262+65.19 =  
STA 20+00.00  
BM#54

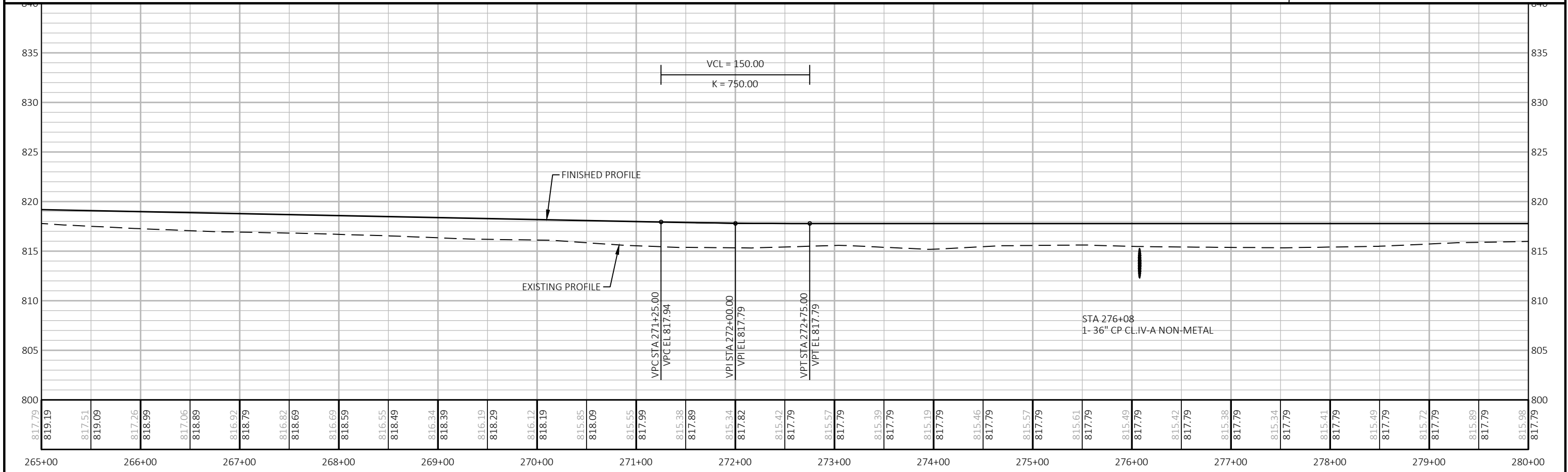
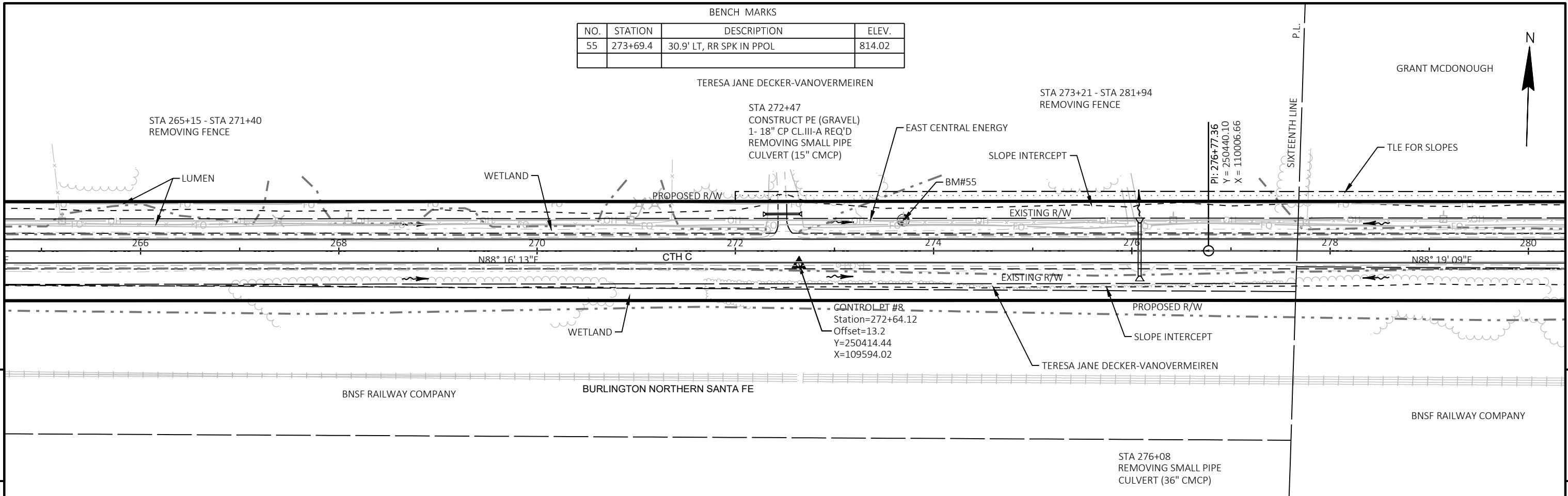
CONTROL PT #7  
Station=262+66.20  
Offset=-13.2  
Y=250410.73  
X=108595.74



PROJECT NO: 8758-00-72	HWY: CTH C	COUNTY: DOUGLAS	PLAN AND PROFILE: CTH C	SHEET	<b>E</b>
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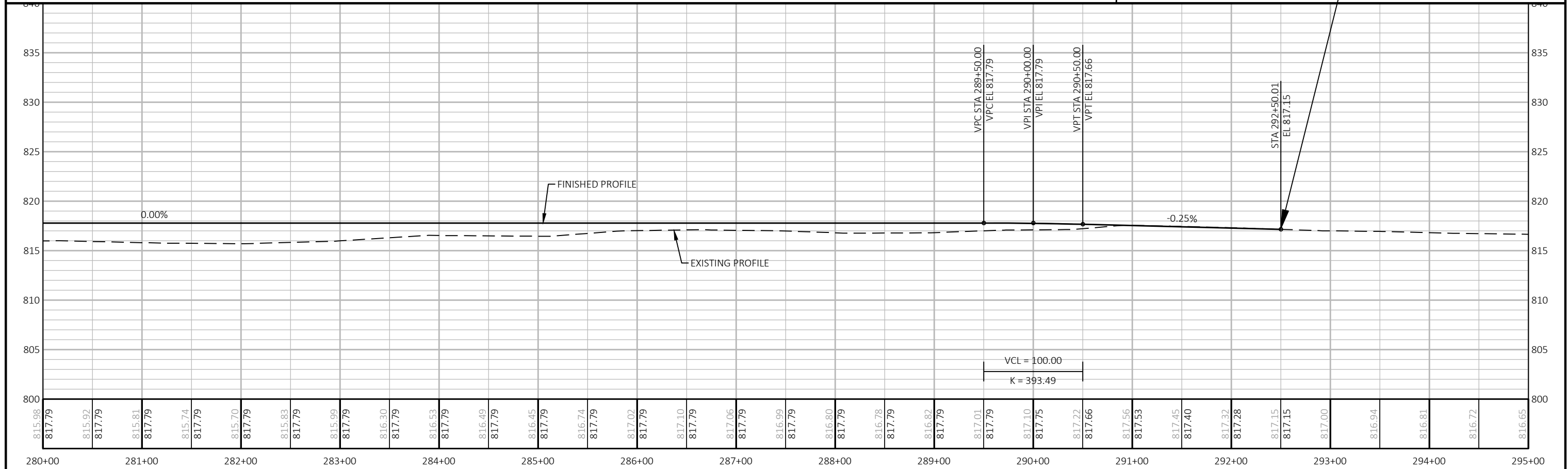
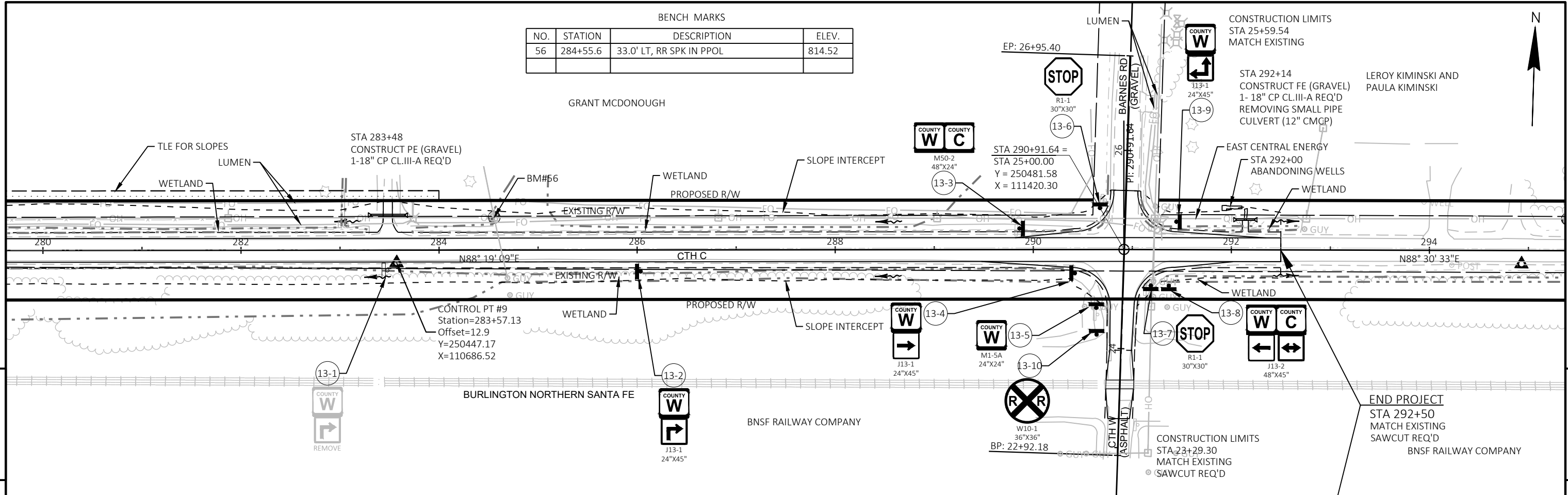
BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
55	273+69.4	30.9' LT, RR SPK IN PPOL	814.02



PROJECT NO: 8758-00-72	HWY: CTH C	COUNTY: DOUGLAS	PLAN AND PROFILE: CTH C	SHEET 5
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BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
56	284+55.6	33.0' LT, RR SPK IN PPOL	814.52

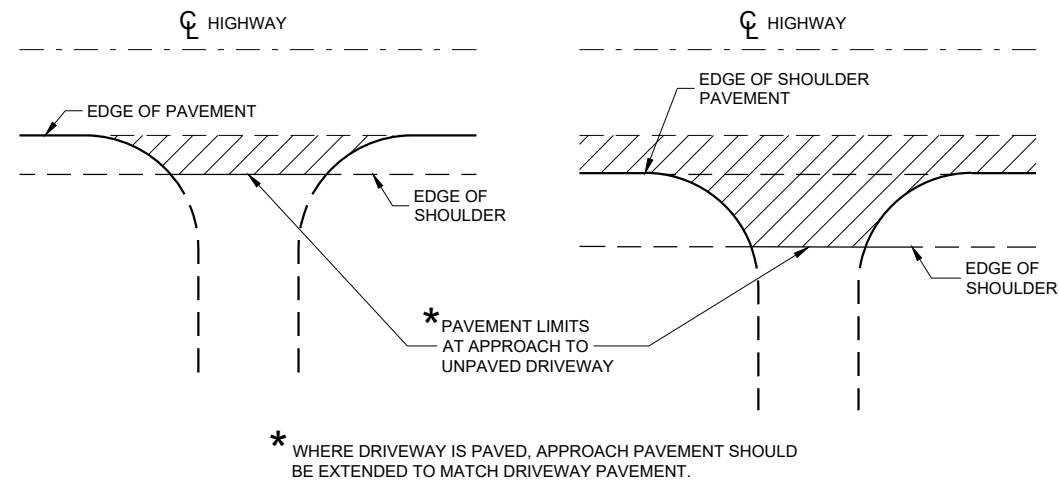
GRANT MCDONOUGH



PROJECT NO: 8758-00-72	HWY: CTH C	COUNTY: DOUGLAS	PLAN AND PROFILE: CTH C	SHEET	<b>E</b>
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## Standard Detail Drawing List

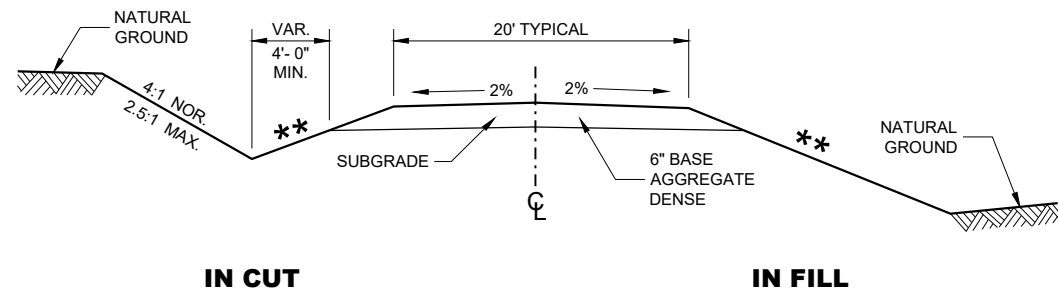
08D21-01	DRIVEWAYS WITHOUT CURB & GUTTER
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
09A01-14A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
13B01-11A	PAVEMENT DETAILS FOR RAILROAD APPROACH
13B01-11B	TYPICAL SECTIONS FOR RAILWAY APPROACH
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M. P. H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C09-13A	SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSINGS
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-06A	PAVEMENT MARKING (INTERSECTIONS)



**PLAN VIEW**  
(UNPAVED SHOULDER ON HIGHWAY)

**PLAN VIEW**  
(PAVED SHOULDER ON HIGHWAY)

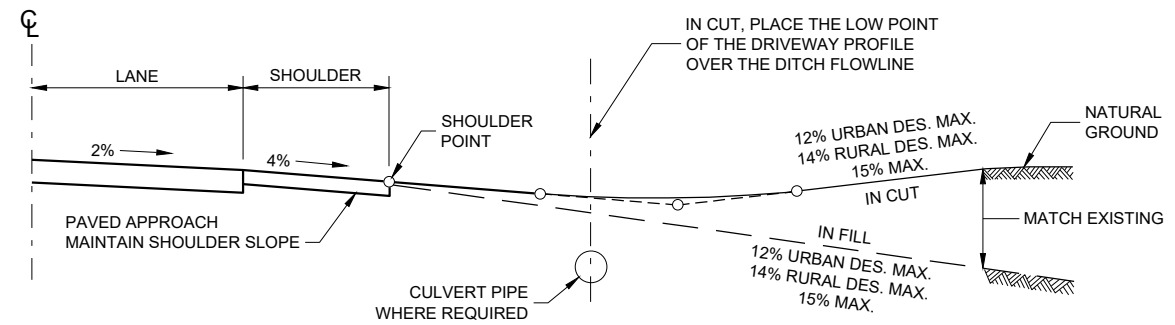
**RURAL DRIVEWAY INTERSECTION DETAIL  
(NO CURB AND GUTTER OR SIDEWALK)**



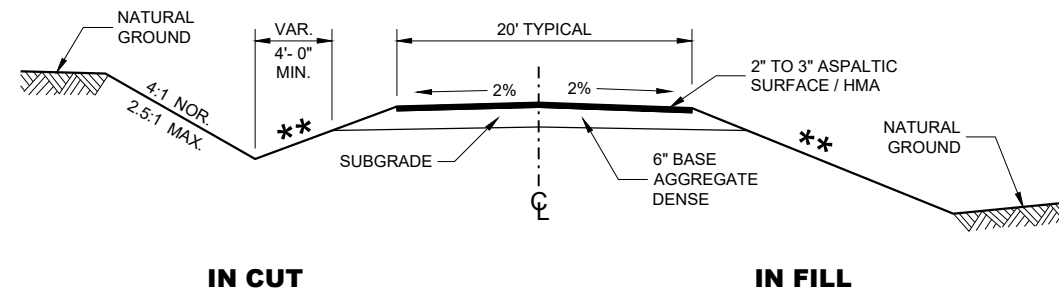
**TYPICAL CROSS SECTION FOR  
PRIVATE DRIVE OR FIELD ENTRANCE  
AGGREGATE SURFACE**

\*\* SLOPE CAN VARY WITH SPEED. SEE 11-45-30.6.2

POSTED SPEED MPH	MAX. SLOPE
<35	4:1
≥ 35 TO < 60	6:1
≥60	10:1



**TYPICAL DRIVEWAY PROFILES**



**TYPICAL CROSS SECTION FOR  
PRIVATE DRIVE OR FIELD ENTRANCE  
ASPHALTIC SURFACE**

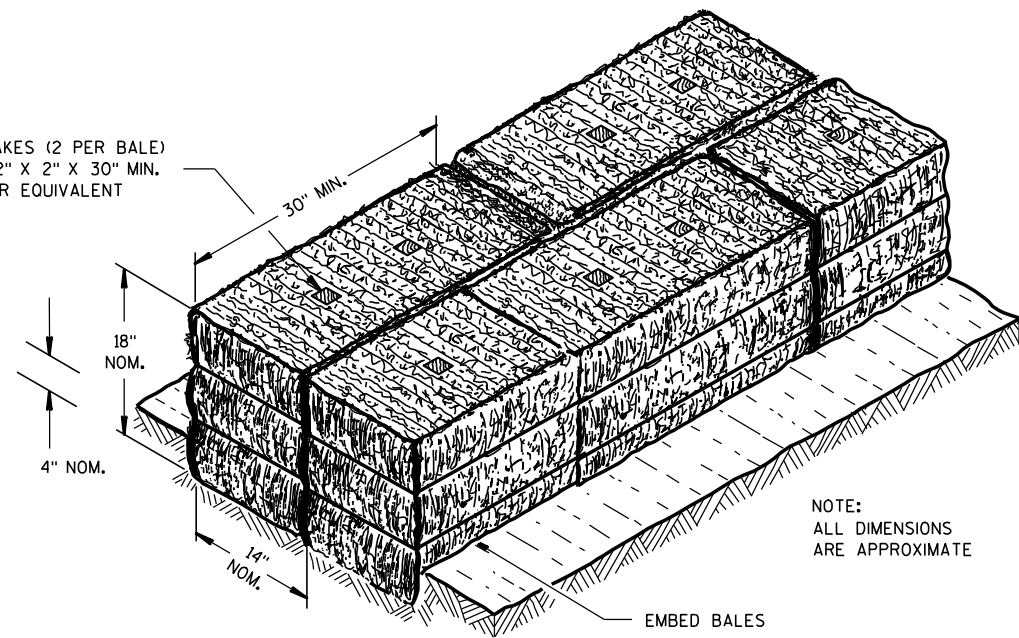
**DRIVEWAYS WITHOUT CURB AND GUTTER**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
December 2017 /S/ Rodney Taylor  
DATE ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

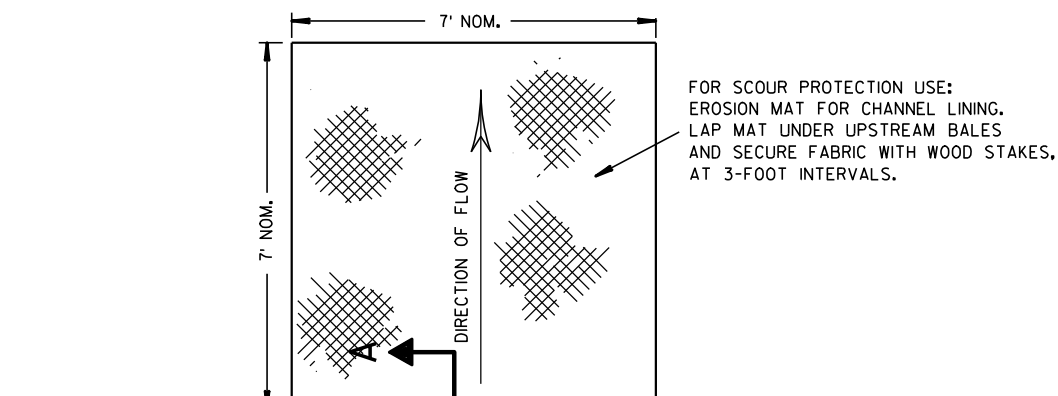
WOOD STAKES (2 PER BALE)  
NOMINAL 2" X 2" X 30" MIN.  
LENGTH OR EQUIVALENT



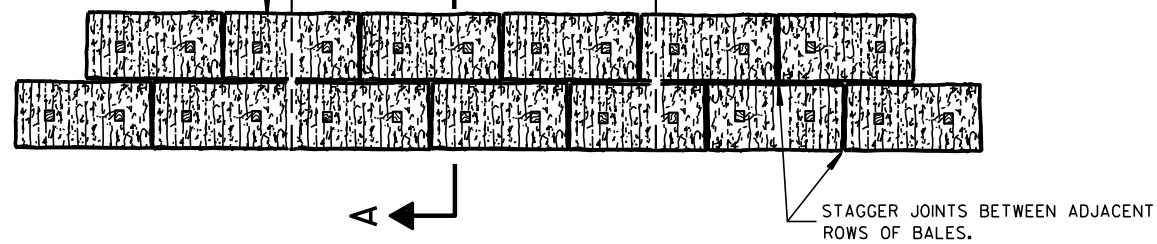
NOTE:  
ALL DIMENSIONS  
ARE APPROXIMATE

EMBED BALES

SECTION A-A



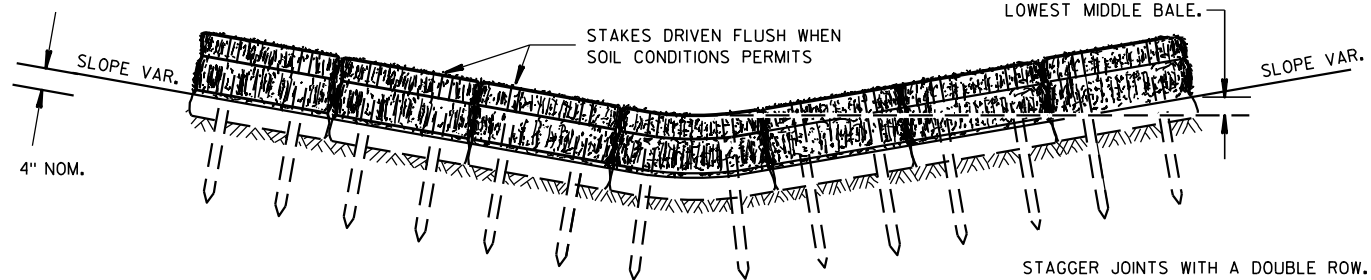
FOR SCOUR PROTECTION USE:  
EROSION MAT FOR CHANNEL LINING.  
LAP MAT UNDER UPSTREAM BALES  
AND SECURE FABRIC WITH WOOD STAKES,  
AT 3-FOOT INTERVALS.



STAGGER JOINTS BETWEEN ADJACENT  
ROWS OF BALES.

PLAN VIEW

BOTTOM ELEVATION OF END BALE SHALL  
BE EQUAL TO OR GREATER THAN TOP OF  
LOWEST MIDDLE BALE.



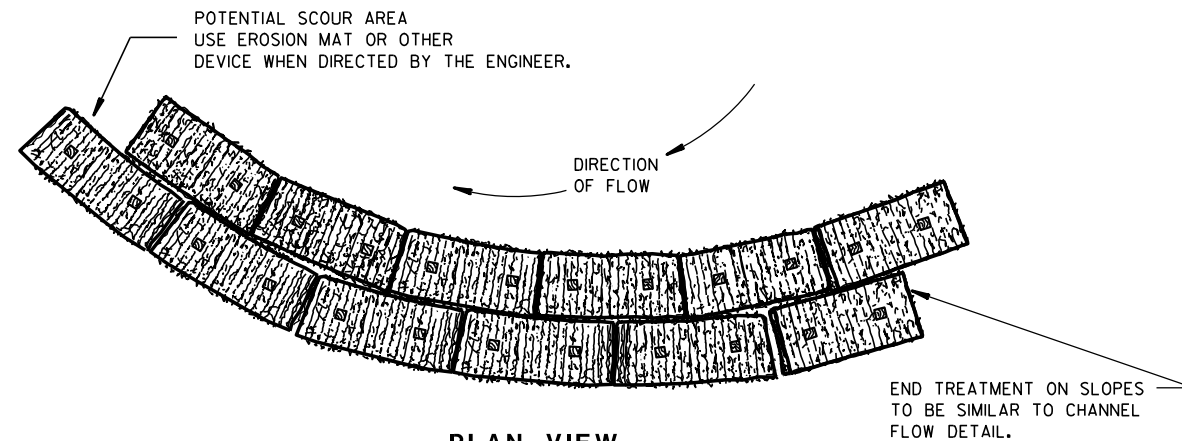
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

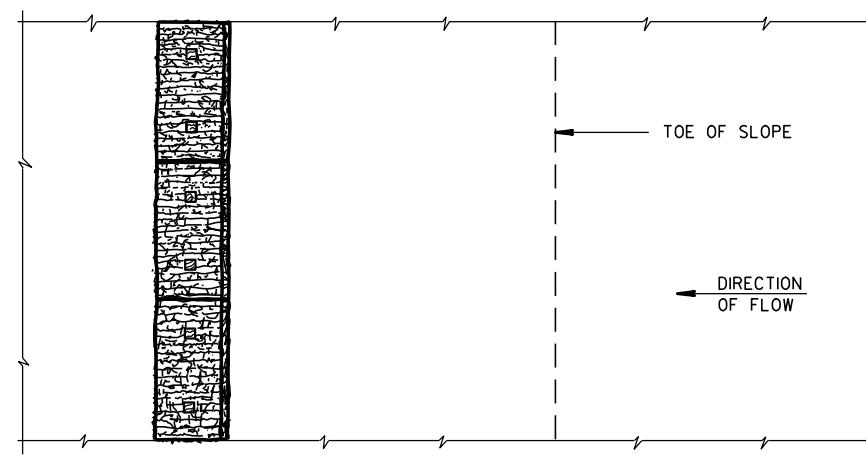
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

- 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.

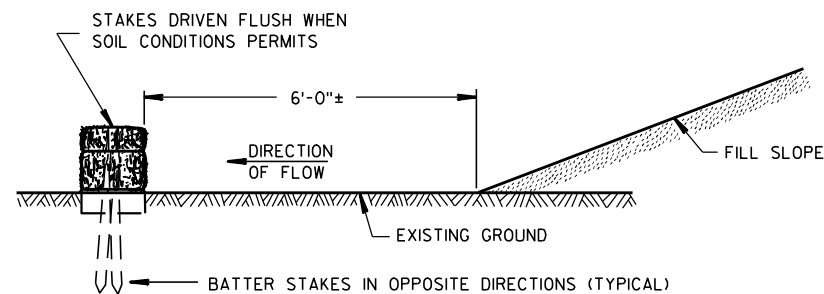


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF  
EROSION BALES / TEMPORARY  
DITCH CHECKS

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
 6/04/02 /S/ Beth Canestra  
 DATE CHIEF ROADWAY DEVELOPMENT ENGINEER  
 FHWA



PLAN VIEW  
TYPICAL APPLICATION OF SILT FENCE

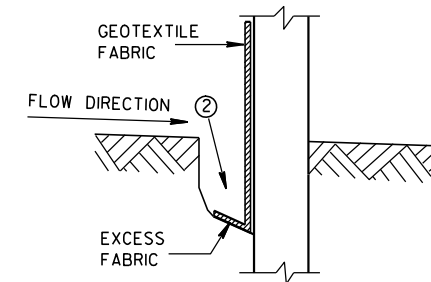


SITUATION 1 SITUATION 2  
PLAN VIEW  
SILT FENCE AT MEDIAN SURFACE DRAINS

**GENERAL NOTES**

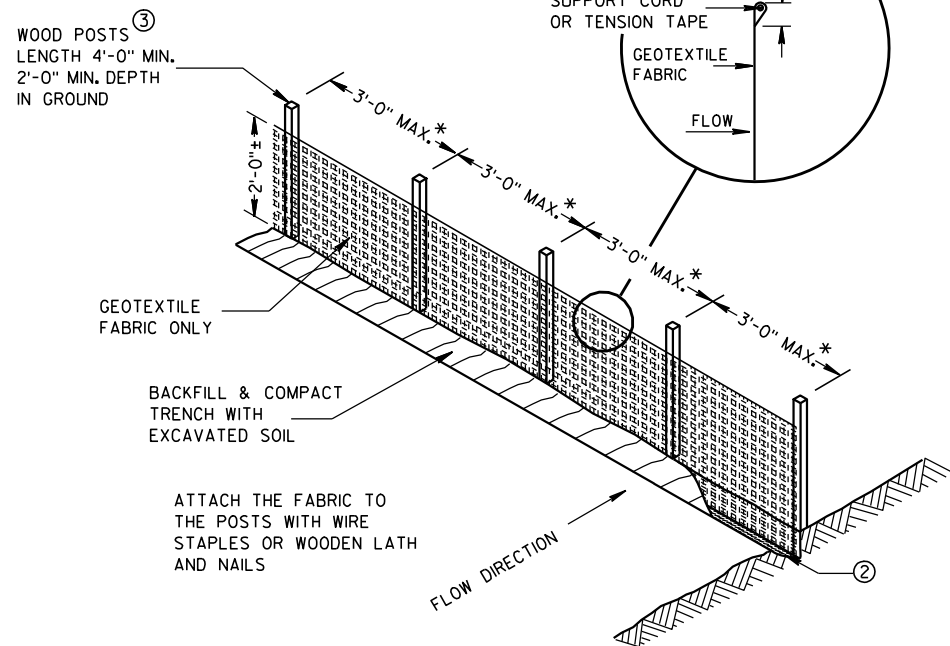
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

- 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.



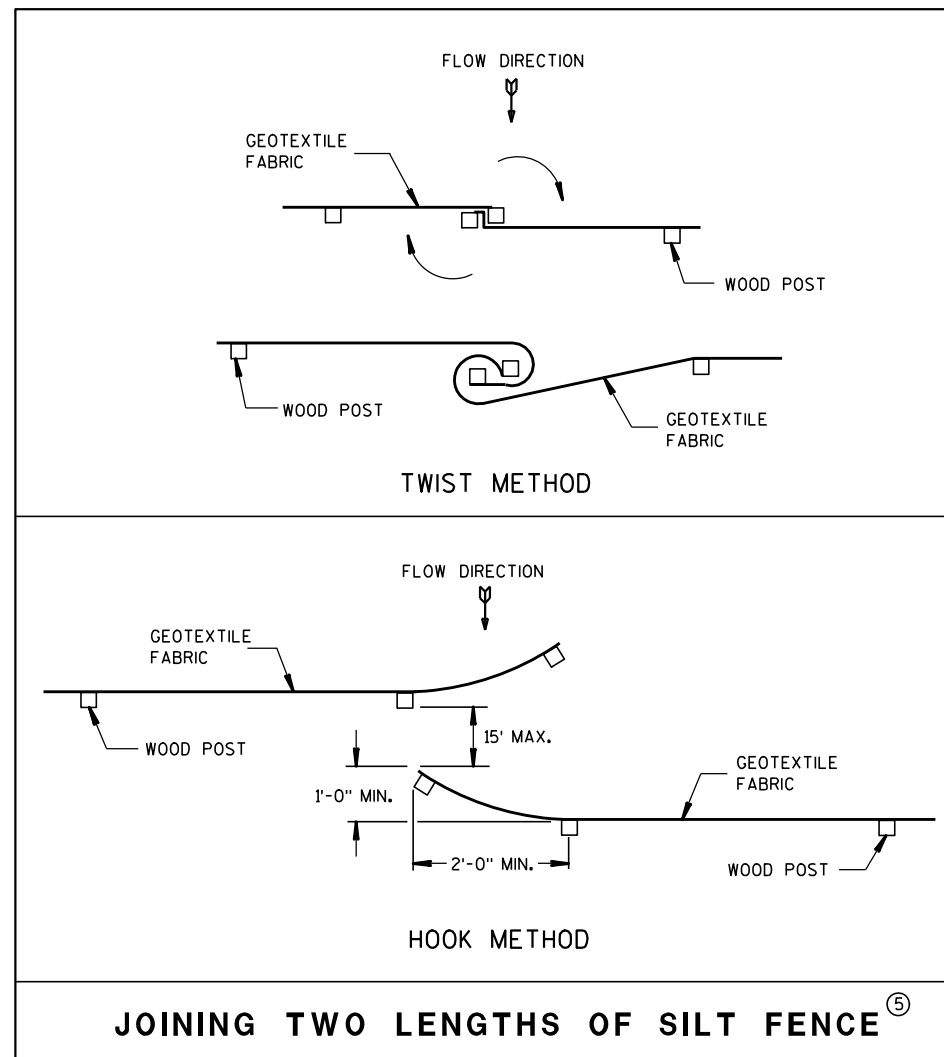
TRENCH DETAIL

NOTE: ADDITIONAL POST DEPTH OR TIE BACKS MAY BE REQUIRED IN UNSTABLE SOILS

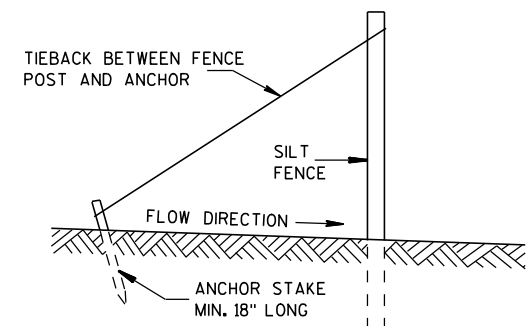


SILT FENCE

\* NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.



JOINING TWO LENGTHS OF SILT FENCE ⑤



SILT FENCE TIE BACK  
(WHEN REQUIRED BY THE ENGINEER)

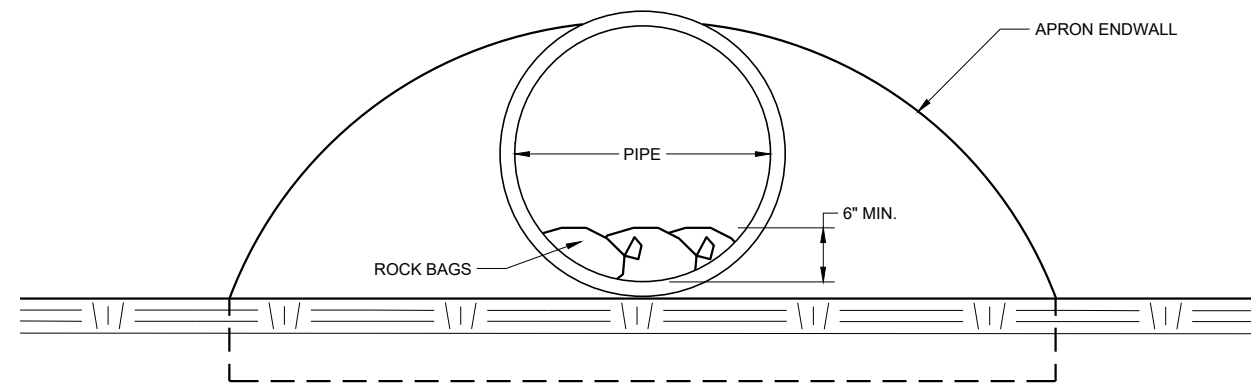
**SILT FENCE**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

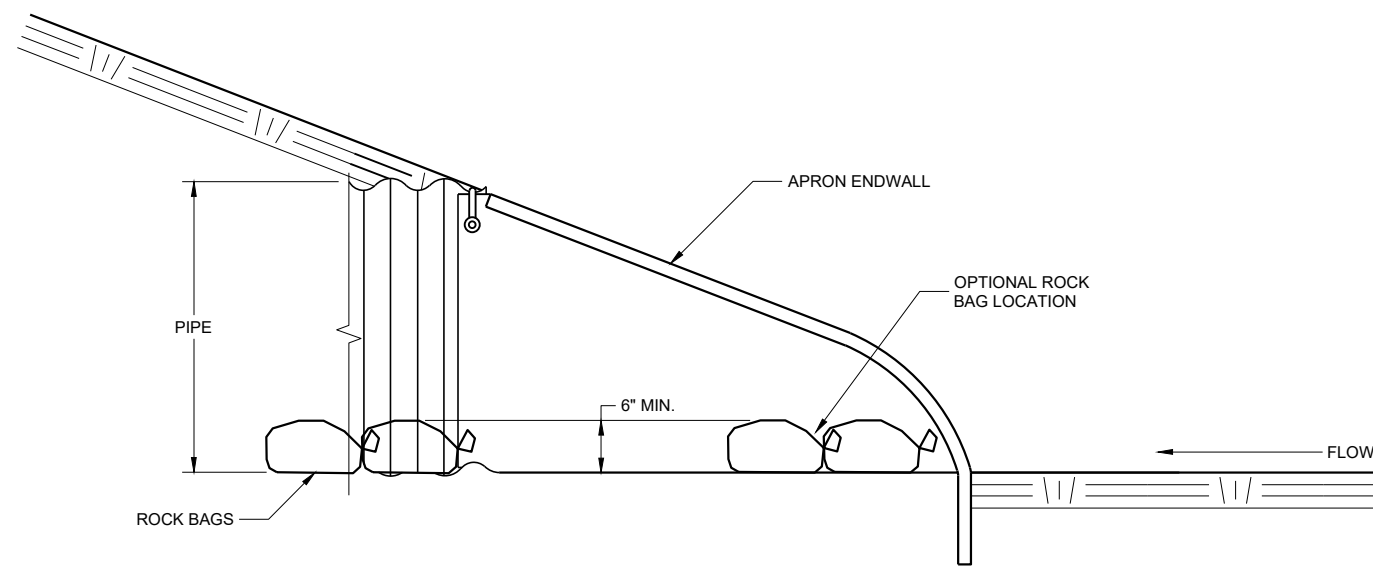
APPROVED

4-29-05 /S/ Beth Cannestra  
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA



**END VIEW**



**SIDE VIEW**

**CULVERT PIPE CHECK**  
(INSTALL ON INLET END ONLY)

**CULVERT PIPE CHECK**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
May 2019 /S/ Daniel Schave  
DATE EROSION CONTROL ENGINEER

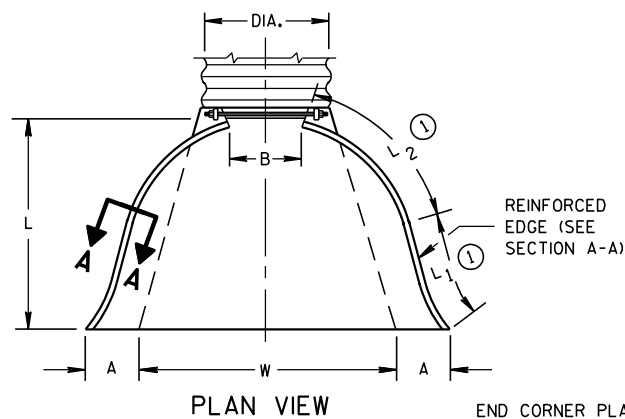
FHWA

METAL APRON ENDWALLS											
PIPE DIA. (IN.)	MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE	BODY
	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1/2")	L <sub>1</sub> (1)	L <sub>2</sub> (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.

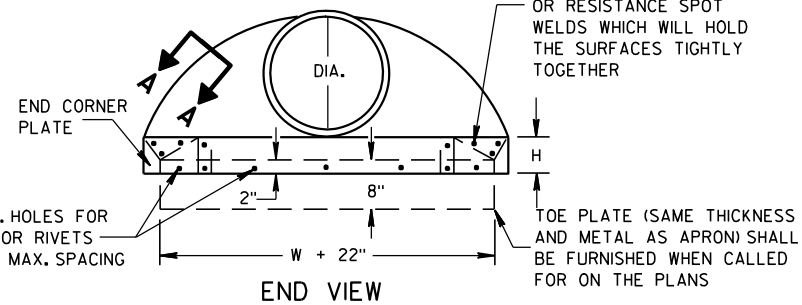
\* EXCEPT CENTER PANEL SEE GENERAL NOTES

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	30-35	72-78	21-27	99	102	5 1/2	2 to 1	
72	7	30-35	78	21	99	108	6	2 to 1	
78	7 1/2	30-35	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	

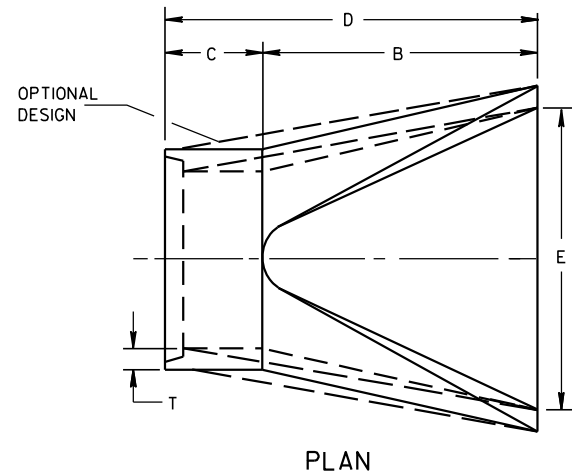
\* MINIMUM  
\*\* MAXIMUM



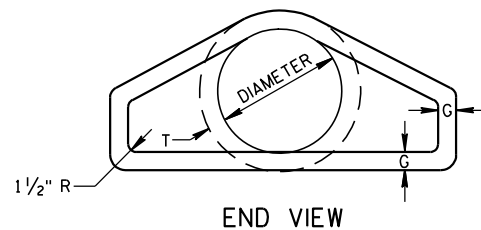
END CORNER PLATES MAY BE FASTENED TO APRON PROPER BY BOLTS, RIVETS, OR RESISTANCE SPOT WELDS WHICH WILL HOLD THE SURFACES TIGHTLY TOGETHER



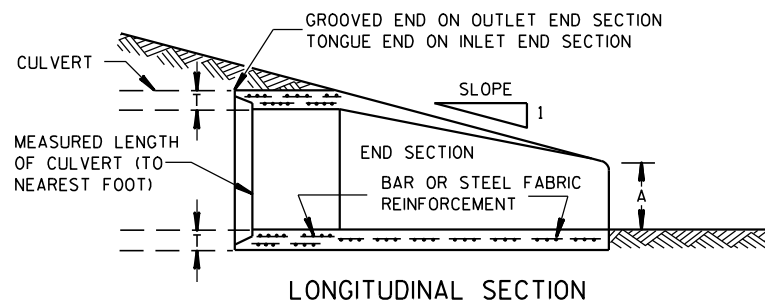
SIDE ELEVATION  
METAL ENDWALLS



PLAN

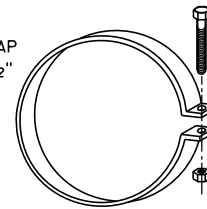


END VIEW



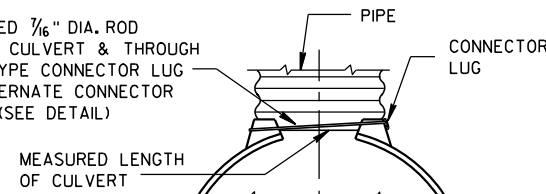
LONGITUDINAL SECTION  
CONCRETE ENDWALLS

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



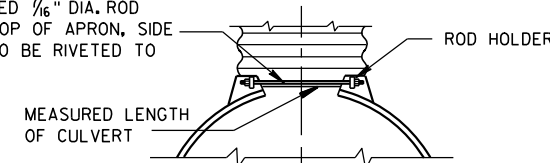
ALTERNATE FOR TYPE 1 CONNECTION  
END SECTION CONNECTOR STRAP

THREADED 3/16" DIA. ROD AROUND CULVERT & THROUGH TANK TYPE CONNECTOR LUG OR ALTERNATE CONNECTOR STRAP (SEE DETAIL)



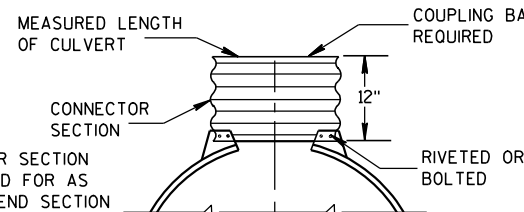
TYPE 1  
FOR 12" THRU 24" CORR. PIPE

THREADED 3/16" DIA. ROD OVER TOP OF APRON, SIDE LUGS TO BE RIVETED TO APRON



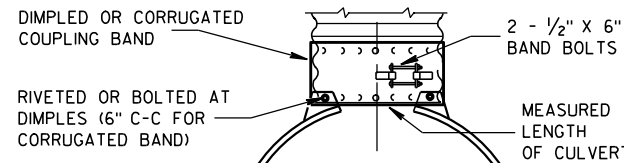
TYPE 2  
FOR 30" THRU 96" CORR. PIPE

CONNECTOR SECTION TO BE PAID FOR AS PART OF END SECTION



TYPE 3  
FOR 42" THRU 96" CORR. PIPE

CONNECTOR SECTION TO BE PAID FOR AS PART OF END SECTION



TYPE 5  
ALTERNATE FOR:  
ALL SIZES CORRUGATED CIRCULAR PIPE

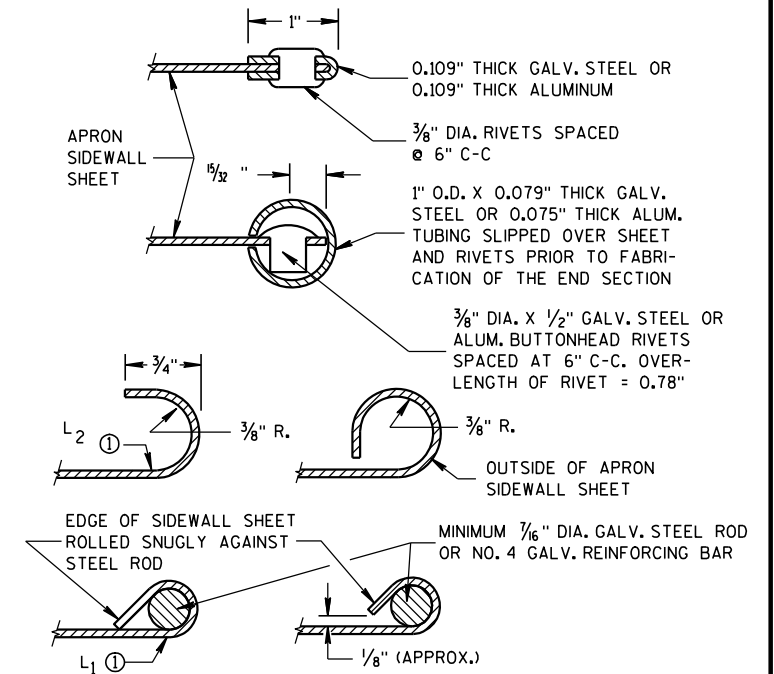
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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 VICE 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.

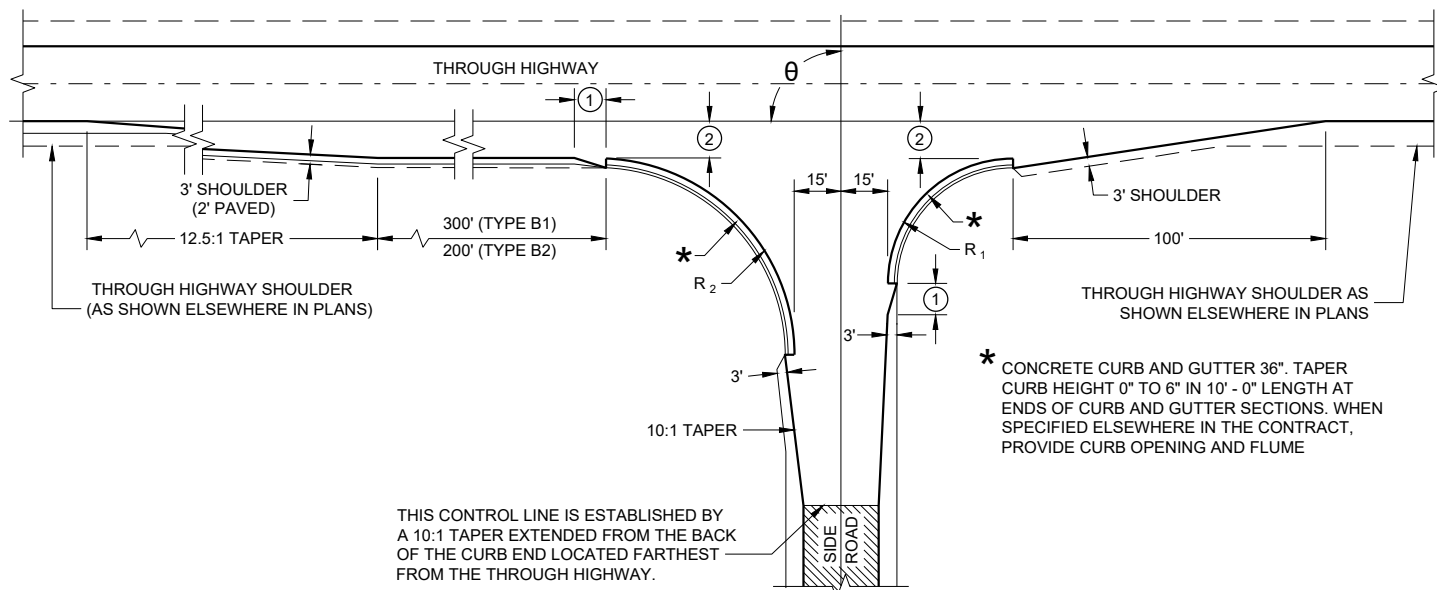
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

### APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

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





**TYPE "B1" AND "B2"**

**RADI DIMENSIONS FOR TYPES "B1", "B2", "C" AND "D" INTERSECTIONS**

$\theta$	$R_1$	$R_2$
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.

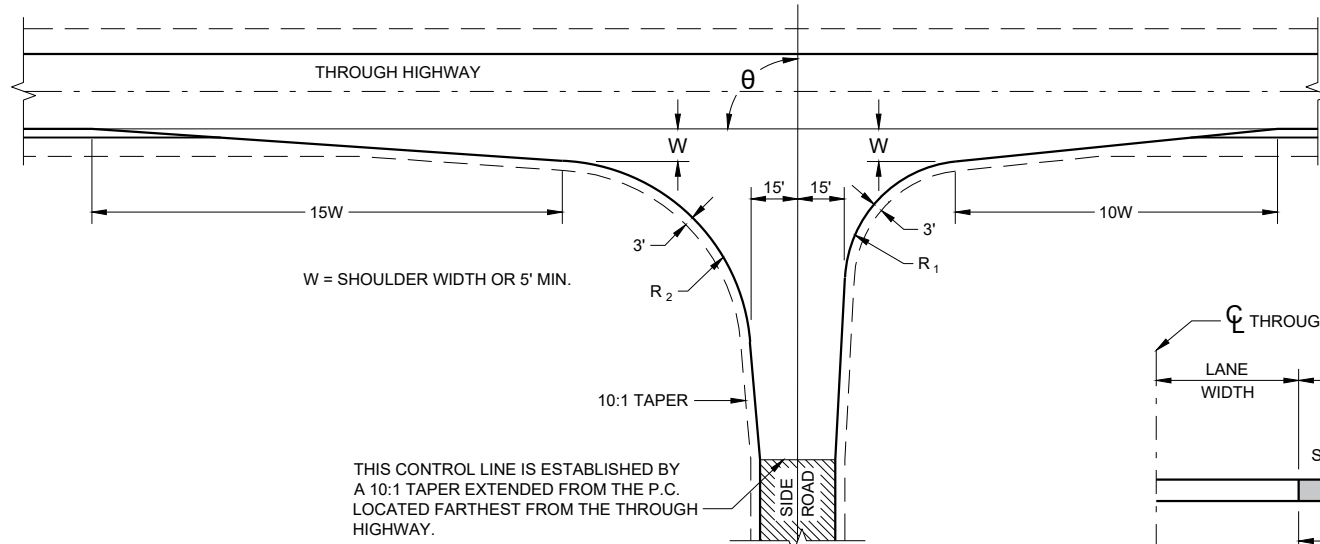
**SIDE ROAD SURFACING NOTE**

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.

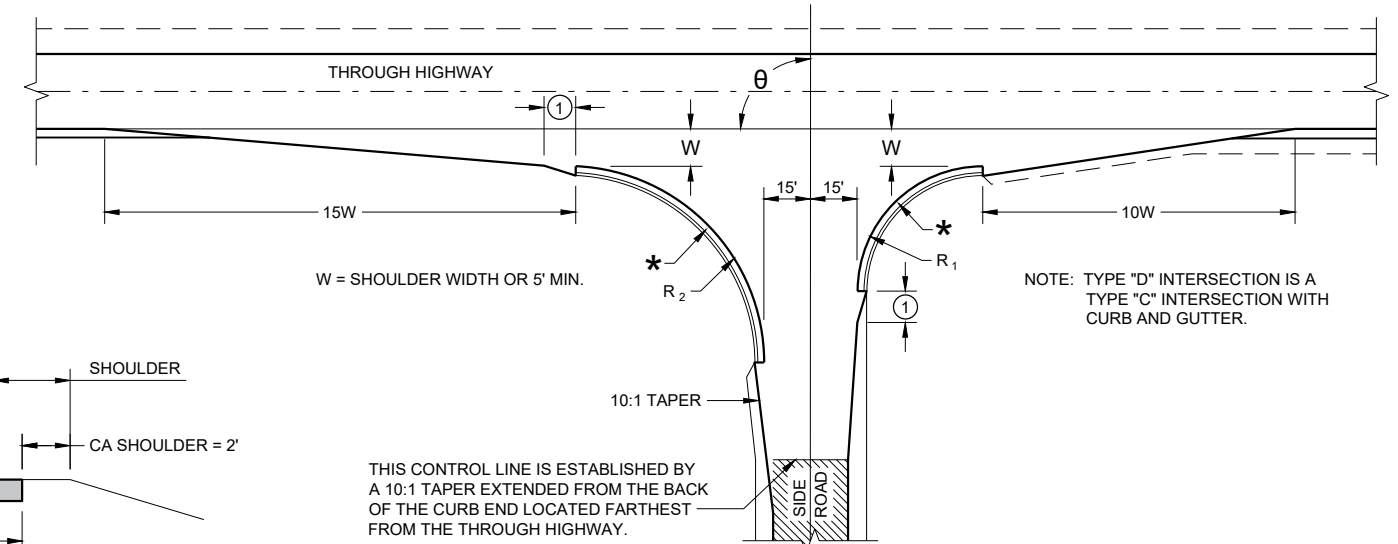
WHEN THE SIDE ROAD IS PRESENTLY PAVED, NEW PAVEMENT SHALL BE PLACED TO THE LIMITS OF DESIGN AS SHOWN AND BEYOND, IF NECESSARY, TO MEET EXISTING PAVEMENT.

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

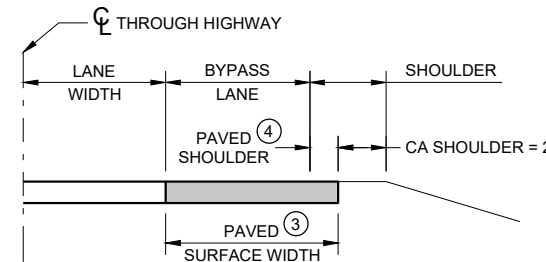
- ① 10-FT TYPICAL.
- ② 12-FT\*\* PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLAN.  
\*\*10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.
- ③ BYPASS LANE PAVED SURFACE WIDTH OUTSIDE OF TRAVEL LANE  
- ASPHALT = 12-FT PLUS PAVED SHOULDER WIDTH  
- PC CONCRETE = 13-FT PLUS PAVED SHOULDER WIDTH
- ④ BYPASS LANE PAVED SHOULDER WIDTH = THE GREATER OF 1-FT OR THE PAVED SHOULDER WIDTH OF THE THROUGH HIGHWAY.



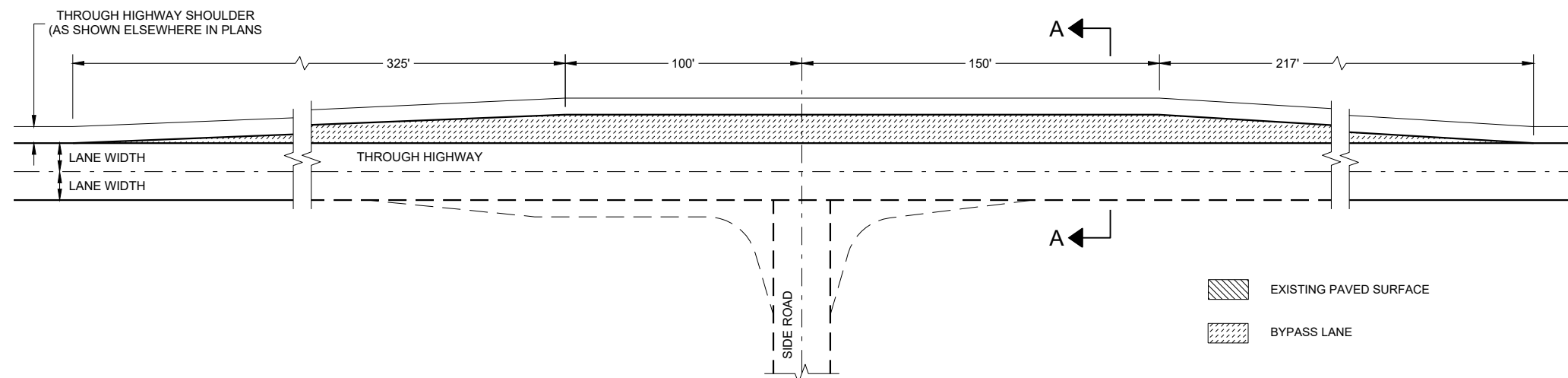
**TYPE "C"**



**TYPE "D"**



**SECTION A - A**  
(SHOWING BYPASS LANE AND SHOULDER)



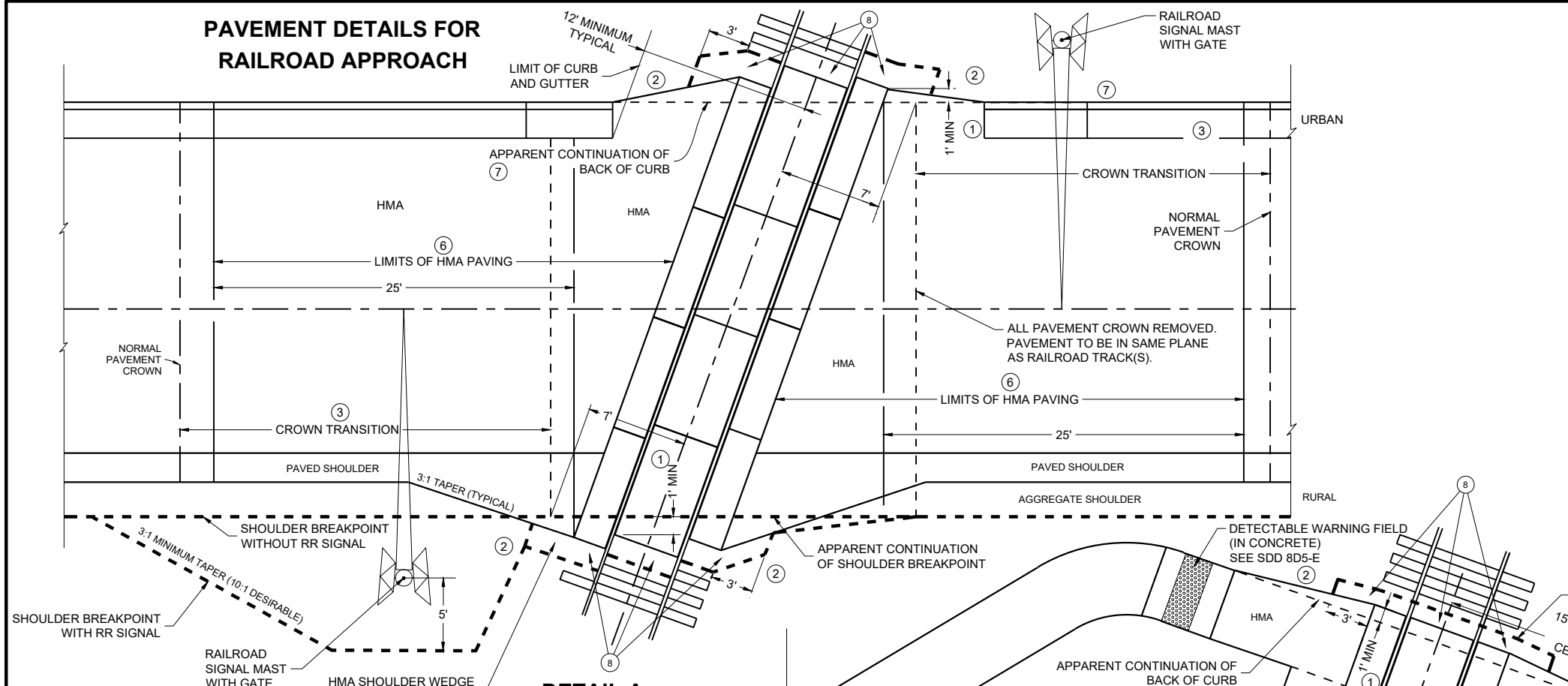
**TEE INTERSECTION BYPASS LANE DETAIL**

EXISTING PAVED SURFACE  
BYPASS LANE

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

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

**PAVEMENT DETAILS FOR RAILROAD APPROACH**



**DETAIL A RAILROAD APPROACH**

**GENERAL NOTES**

PLANS AND SECTIONS ARE TYPICAL. DIMENSIONS VARY PER PROJECT.

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

CROSSING SURFACE MATERIAL, RAILS, TIES, BALLAST, AND CROSSING DRAINAGE SYSTEM BY OTHERS UNLESS DIRECTED OTHERWISE. IF THE FINAL GRADES DON'T MATCH TO THE PLAN GRADES THEN GRADE ADJUSTMENTS WILL BE NECESSARY. CONFIRM NEW GRADES WITH PROJECT ENGINEER.

HMA PAVEMENT APPROACHES, HMA PAVEMENT CROSSING SURFACES, AND HMA FLANGWAY/FIELD FILLERS TO BE REPLACED BY ROADWAY CONTRACTOR UNLESS DIRECTED OTHERWISE BY THE PLANS, SPECIAL PROVISIONS, RAILROAD ENGINEER, OR PROJECT ENGINEER.

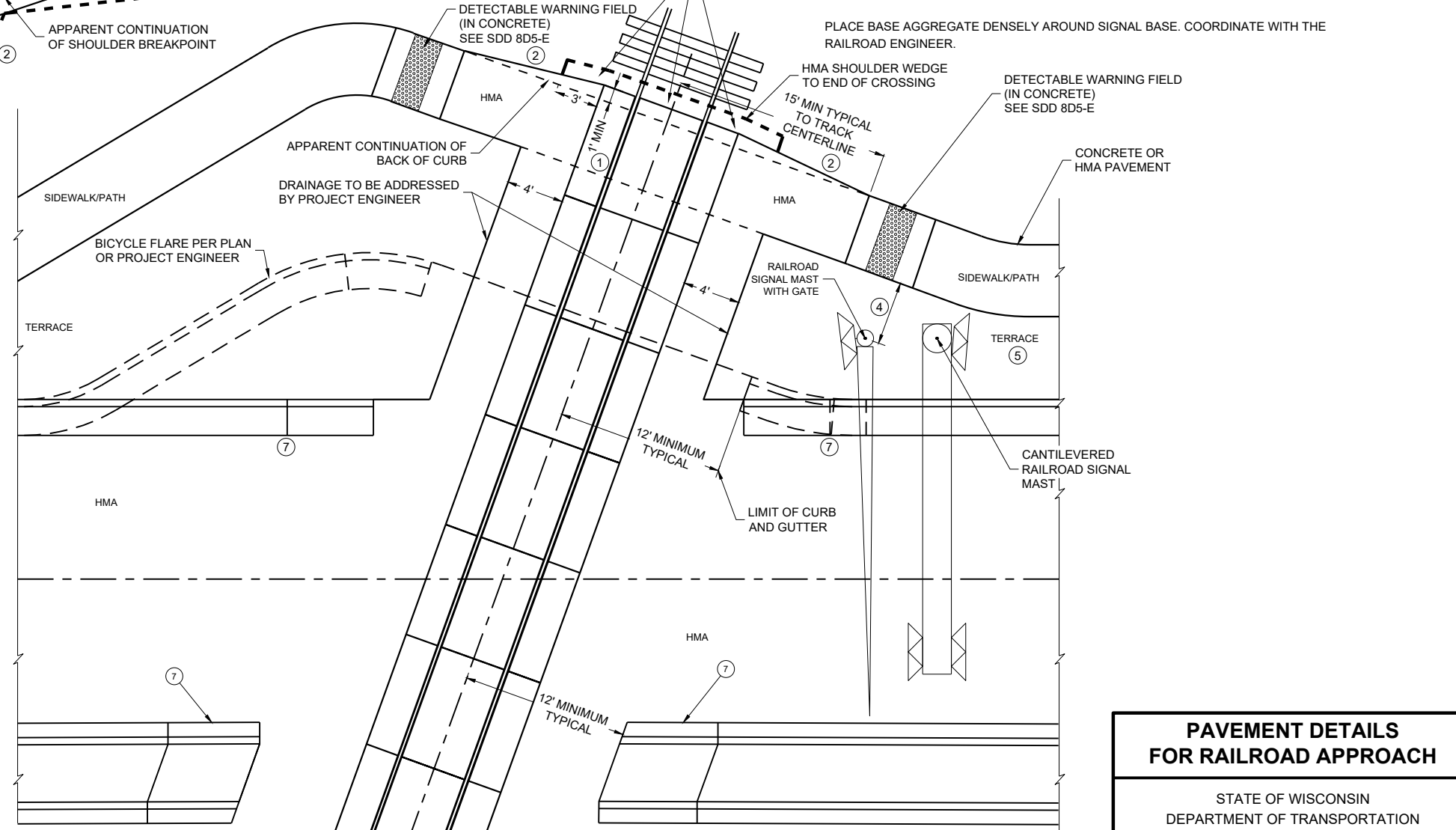
HMA PAVEMENT SHALL BE ROLLED PARALLEL TO THE TRACK.

WHEN THERE IS A SIDEWALK OR SHARED-USE PATH, ADD DETECTABLE WARNING FIELDS PER CURRENT STANDARD DETAIL DRAWING 8D5-E.

THE CROSSING SHALL NOT BE OPENED TO ANY TYPE OF TRAFFIC UNTIL IT IS FULLY PAVED AND COOLED SUFFICIENTLY UNLESS OTHERWISE APPROVED BY THE RAILROAD ENGINEER AND THE PROJECT ENGINEER.

NO NON-RUBBER TIRED OR TRACKED EQUIPMENT SHALL CROSS OR SIT ON THE CROSSING SURFACE WITHOUT PROTECTING THE CROSSING SURFACE WITH A METHOD APPROVED BY THE RAILROAD ENGINEER AND PROJECT ENGINEER.

PLACE BASE AGGREGATE DENSELY AROUND SIGNAL BASE. COORDINATE WITH THE RAILROAD ENGINEER.



**DETAIL B MEDIAN AND SIDEWALK/SHARED-USE PATH APPROACH**

**GENERAL NOTES CONTINUED**

- ① 1' MINIMUM CROSSING SURFACE COVERAGE PAST THE APPARENT CONTINUATION OF SHOULDER BREAKPOINT, BACK OF CURB, OR OUTSIDE EDGE OF SIDEWALK/PATH. INDIVIDUAL RAILROADS MAY HAVE DIFFERENT MINIMUM STANDARDS.
- ② HMA FLARE FROM OUTSIDE EDGE OF SIDEWALK/PATH, BACK OF CURB, OR AGGREGATE SHOULDER BREAKPOINT TO THE END OF CROSSING SURFACE MATERIAL.
- ③ CROWN TRANSITION LENGTH SHOWN ELSEWHERE IN THE PLAN.
- ④ NEAR EDGE OF PATH TO THE CENTER OF SIGNAL OR GATE MAST SHOULD BE A MINIMUM OF 5'-0". FOR SIDEWALK, THE NEAR EDGE SHOULD BE A MINIMUM OF 3'-0" TO THE CENTER OF SIGNAL OR GATE. NEAR EDGE OF SIDEWALK TO A NON-GATED MAST OR CANTILEVER SHOULD BE A MINIMUM OF 2'-6". SEE PLAN FOR RAILROAD SIGNAL AND GATE LOCATION IF THEY ARE NOT ALREADY INSTALLED.
- ⑤ TERRACE WIDTH VARIES. SEE PLAN FOR RAILROAD SIGNAL AND GATE LOCATIONS. PER PLAN OR PROJECT ENGINEER THE TERRACE AND SIDEWALK/PATH GRADES SHALL BE TRANSITIONED TO MATCH THE GRADE OF THE TRACK. FIELD FIT TO AVOID PONDING.
- ⑥ 25' MINIMUM HMA PAVING MEASURED PARALLEL TO THE ROAD OR 10' MINIMUM MEASURED PERPENDICULAR TO THE TRACK FROM THE EDGE OF THE CROSSING SURFACE, WHICHEVER IS GREATER.
- ⑦ REFERENCE SDD 8-D-01 END SECTION CURB AND GUTTER. MEDIAN END NEAR THE TRACK SHOULD BE PARALLEL TO THE TRACK. 6'-0" TAPER FOR A MEDIAN SHOULD BE REDUCED TO GET FULL HEIGHT CURB WHERE THE GATE COMES DOWN. DESIGN OPTION TO POUR MEDIAN TAPER IN ONE PIECE. BUILD PER PLAN UNLESS OTHERWISE APPROVED BY THE RAILROAD ENGINEER AND THE PROJECT ENGINEER.
- ⑧ IF METAL END PLATES ARE NOT INSTALLED BY THE RAILROAD THEN HMA PAVEMENT WEDGE SHALL BE PLACED AT THE END OF THE LAST PANEL TAPERED TO BACK EDGE OF NEXT TIE AND THOROUGHLY COMPACTED. SEE DETAIL G.

**PAVEMENT DETAILS FOR RAILROAD APPROACH**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

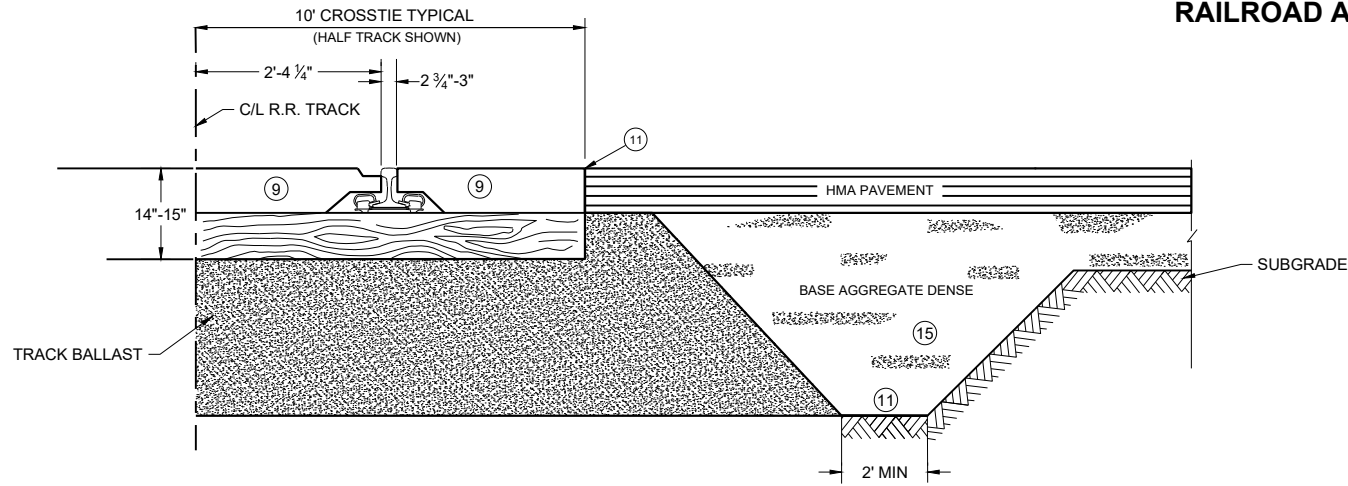
APPROVED

May 2023  
DATE

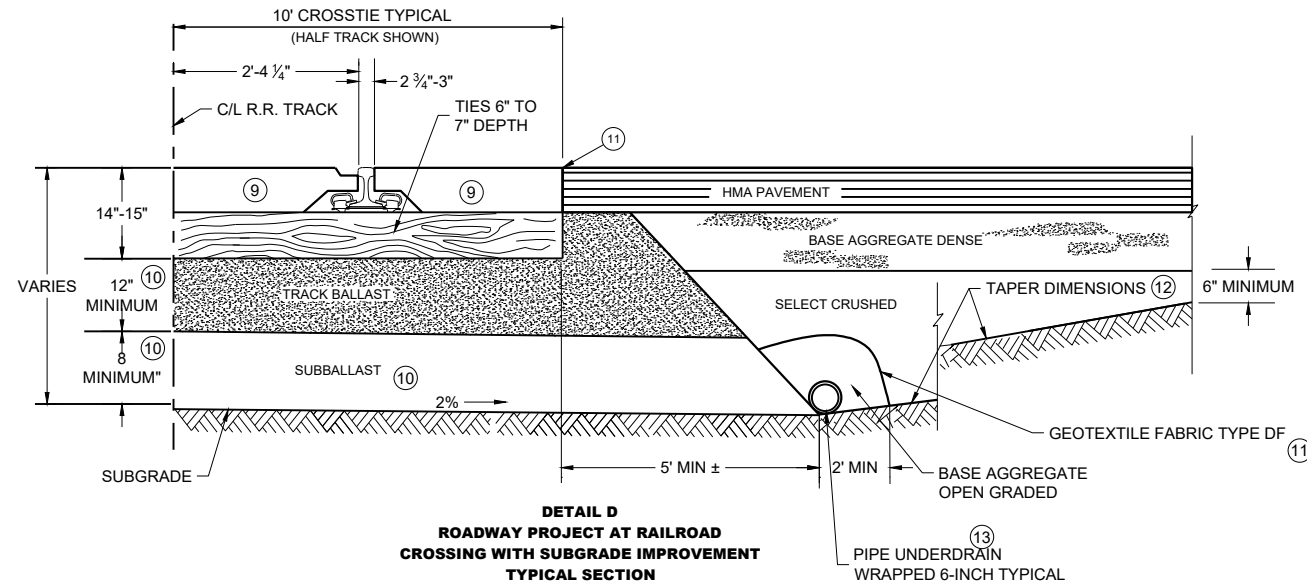
/s/ Kristen Sommers  
STATE RAILROAD ENGINEERING  
AND SAFETY SUPERVISOR

FHWA

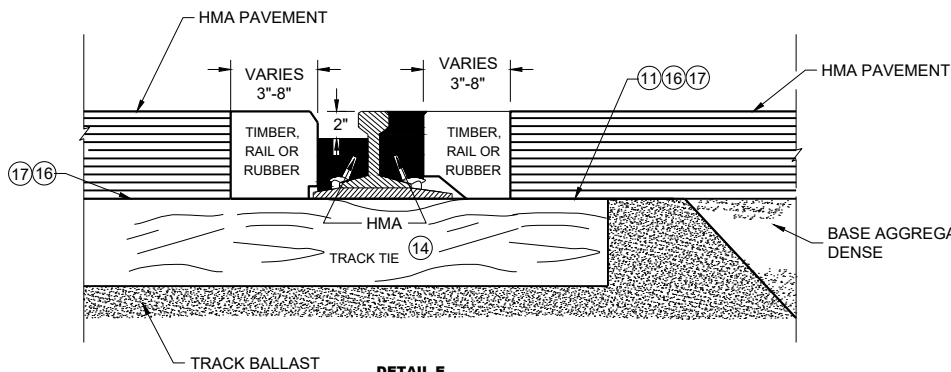
## TYPICAL SECTIONS FOR RAILROAD APPROACH



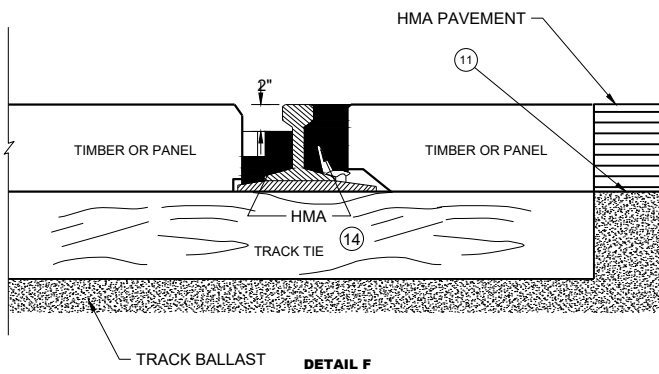
**DETAIL C**  
ROADWAY PROJECT AT RAILROAD  
CROSSING WITHOUT SUBGRADE IMPROVEMENT  
TYPICAL SECTION



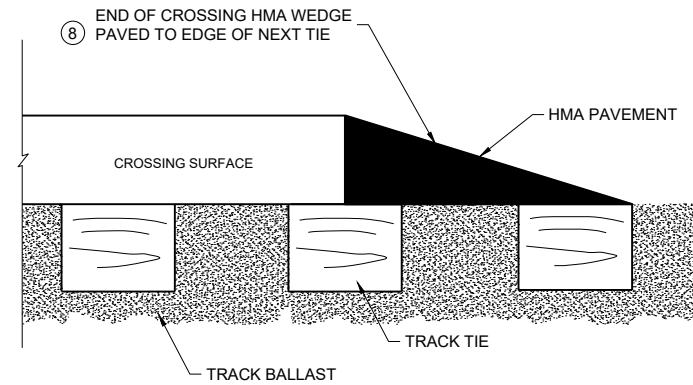
**DETAIL D**  
ROADWAY PROJECT AT RAILROAD  
CROSSING WITH SUBGRADE IMPROVEMENT  
TYPICAL SECTION



**DETAIL E**  
TIMBER, RAIL OR  
RUBBER SECTION  
HMA FLANGEWAY  
AND FIELD FILLERS



**DETAIL F**  
PANEL SECTION  
HMA FLANGEWAY  
AND FIELD FILLERS



**DETAIL G**  
END OF CROSSING HMA WEDGE

### GENERAL NOTES

- 8 IF METAL END PLATES ARE NOT INSTALLED BY THE RAILROAD THEN HMA PAVEMENT WEDGE SHALL BE PLACED AT THE END OF THE LAST PANEL TAPERED TO BACK EDGE OF NEXT TIE AND THOROUGHLY COMPACTED. SEE DETAIL A AND B.
- 9 MATCH THE CROSSING TYPE THAT IS INSTALLED UNLESS OTHERWISE DIRECTED BY PROJECT ENGINEER.
- 10 TRACK BALLAST AND SUBBALLAST REQUIRED 12" AND 8" MINIMUM DEPTHS RESPECTIVELY. DIMENSION FROM BOTTOM OF TRACK TIE TO HIGH SIDE OF 2% SLOPE. THE 2% SLOPE IS REQUIRED ON RAILROAD SUBBALLAST. SEE PLAN FOR CROWN, MATERIAL THICKNESS, AND SLOPE DIRECTION. SUBBALLAST CAN BE HMA, 1 1/2" BASE AGGREGATE DENSE, SELECT CRUSHED, OR A COMBINATION OF THEM.
- 11 GEOTEXTILE FABRIC TYPE SAS PLACED IN ORDER TO PROVIDE STABILIZATION AND SEPARATION ON TOP OF THE TRACK BALLAST WHERE IT IS UNDER HMA PAVEMENT, BASE AGGREGATE DENSE OR SELECT CRUSHED MATERIAL AND THE FIELD SIDE BALLAST CRIBS. GEOTEXTILE FABRIC TYPE DF PLACED IN ORDER TO PROVIDE STABILIZATION AND SEPARATION UNDER AND AROUND THE PIPE UNDERDRAIN. PLACING GEOTEXTILE FABRIC OR GEOGRID UNDER THE SUBBALLAST IS OPTIONAL.
- 12 TAPER DIMENSIONS PROVIDED BY PLAN OR BY PROJECT ENGINEER.
- 13 IF SHOWN ON THE PLAN, TYPICAL 6-INCH PERFORATED PVC SCHEDULE 80 PIPE UNDERDRAIN TO BE PLACED ALONG THE TOE OF SLOPE, GRADED TO DRAIN AND DAYLIGHT OR INTO STORM SEWER. BASE AGGREGATE OPEN GRADED OVER PIPE UNDERDRAIN AND THEN WRAPPED IN GEOTEXTILE FABRIC TYPE DF SCHEDULE A IN ORDER TO STABILIZE AND SEPARATE FROM SELECT CRUSHED.
- 14 HMA FLANGEWAY AND FIELD FILLERS ARE TO BE PLACED AND THOROUGHLY HAND COMPACTED BY THE CONTRACTOR, WHEN NOT PROVIDED BY OTHERS AS PART OF THE CROSSING SURFACE MATERIAL. IF THE CROSSING SURFACE IS NOT BEING REPLACED, THEN REMOVE AND REPLACE THE HMA FLANGEWAY AND FIELD FILLERS AS DIRECTED BY THE RAILROAD OR PROJECT ENGINEER.
- 15 GRADE TO MATCH EXISTING OR PROPOSED TYPICAL SECTION OF ROADWAY. SEE PLAN OR PROJECT ENGINEER FOR MORE DETAIL. IF NOT NOTED OTHERWISE IN THE PLAN, BACKFILL ANY REMOVED BASE AND SUBGRADE WITH BASE AGGREGATE DENSE.
- 16 IF THE CROSSING IS NOT BEING REPLACED, REMOVE AND REPLACE HMA AS DIRECTED BY RAILROAD AND PROJECT ENGINEER. CARE MUST BE TAKEN TO NOT DAMAGE CROSSING PANELS, TIES, RAIL, PLATES AND SPIKES.
- 17 PLACE HMA FULL DEPTH. AGGREGATE IS NOT TO BE PLACED BETWEEN THE RAILROAD TIES AND THE HMA PAVEMENT.

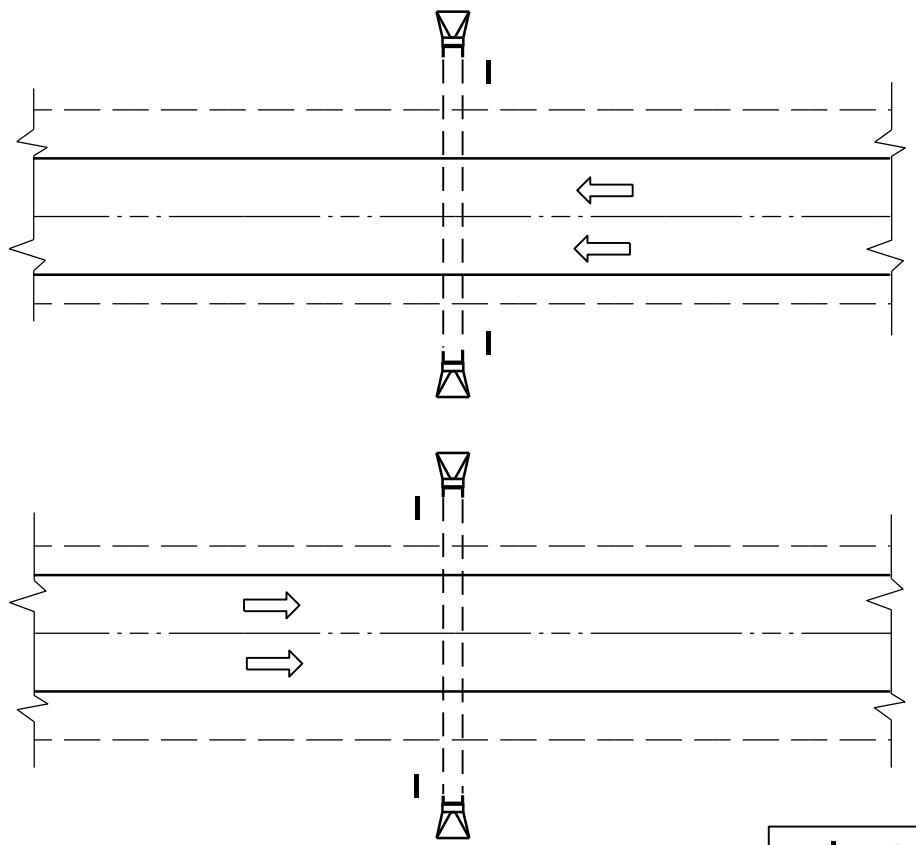
### TYPICAL SECTIONS FOR RAILWAY APPROACH

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

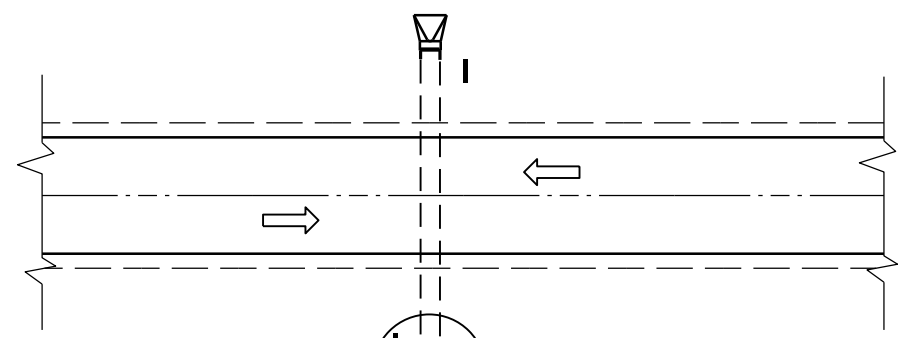
APPROVED

May 2023  
DATE

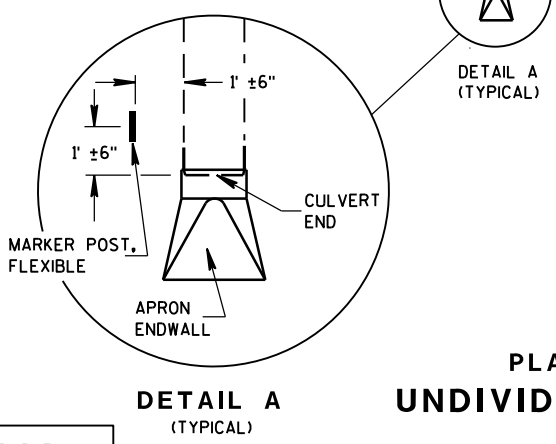
/s/ Kristen Sommers  
STATE RAILROAD ENGINEERING  
AND SAFETY SUPERVISOR



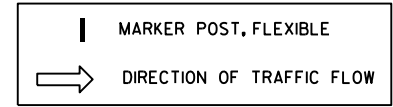
PLAN VIEW  
DIVIDED HIGHWAY



PLAN VIEW  
UNDIVIDED HIGHWAY

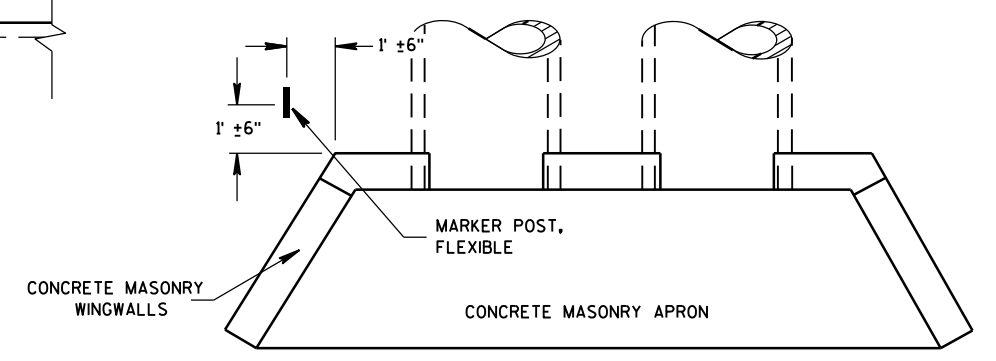


DETAIL A  
(TYPICAL)



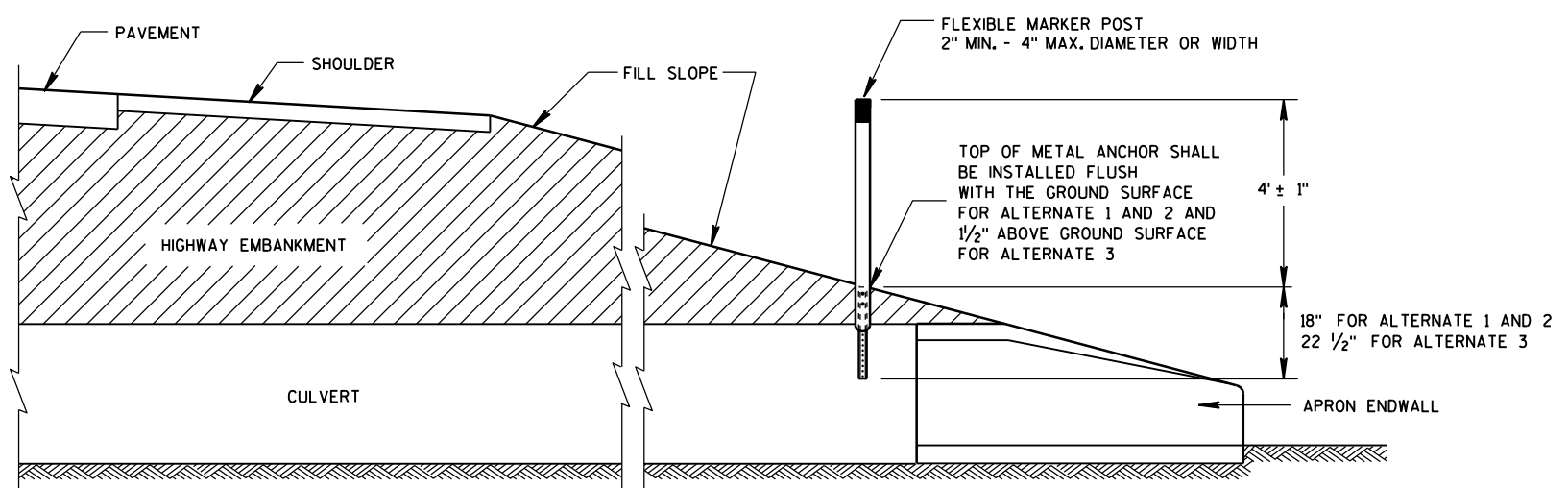
**GENERAL NOTES**

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

**FLEXIBLE MARKER POST LOCATION**



CROSS SECTION  
FLEXIBLE MARKER POST

**FLEXIBLE MARKER POST  
FOR CULVERT END**

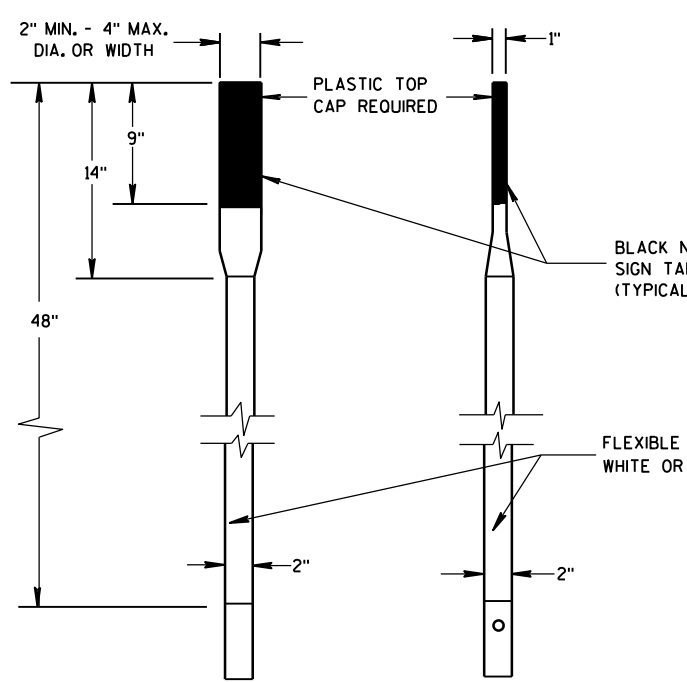
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

6

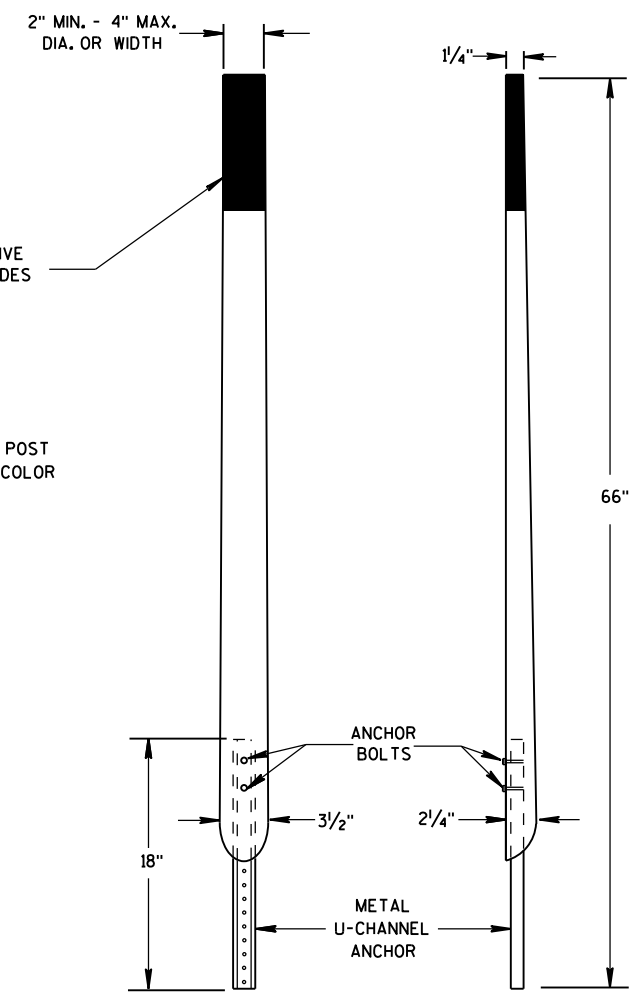
6

S.D.D. 15 A 3-2a

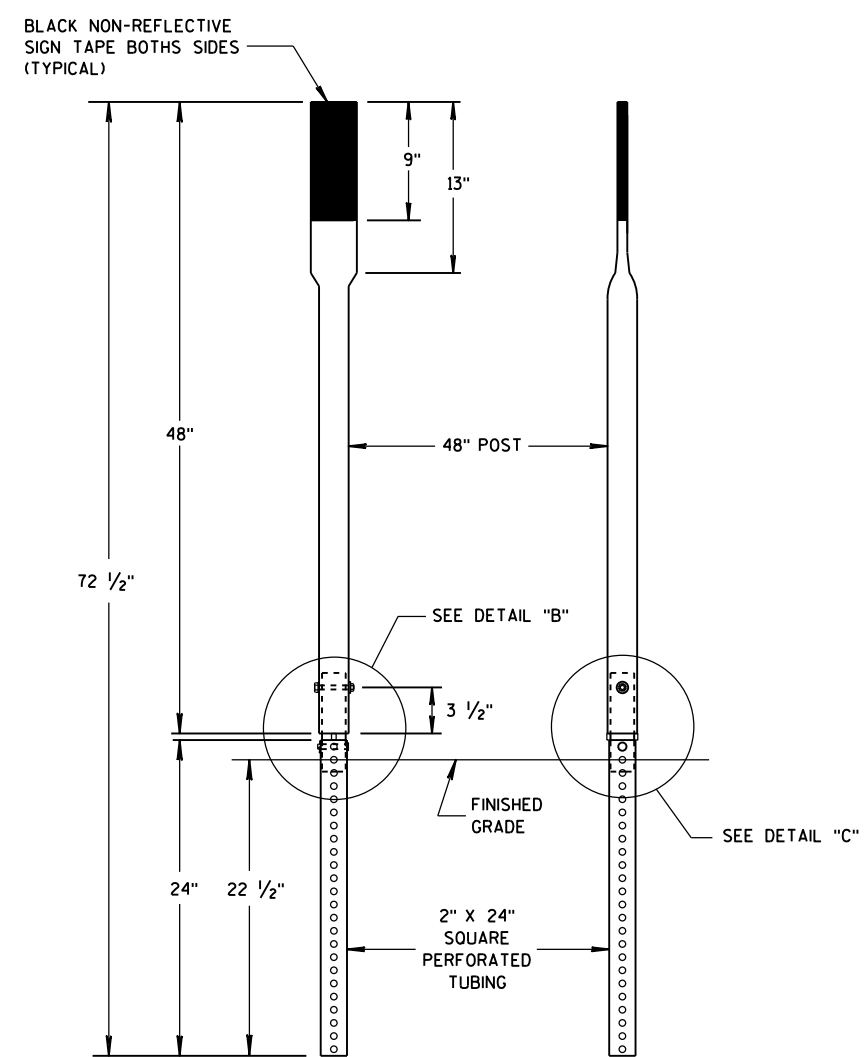
S.D.D. 15 A 3-2a



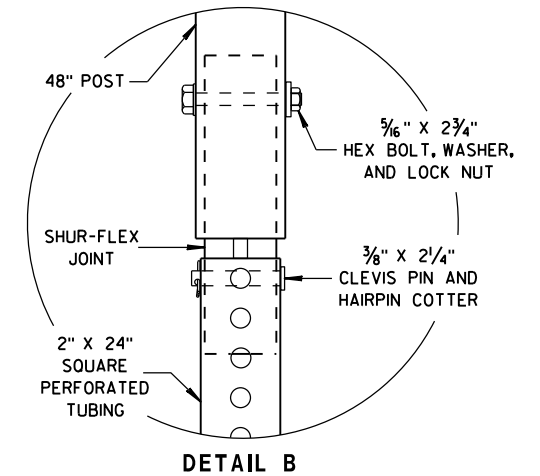
FRONT VIEW SIDE VIEW  
ALTERNATE 1



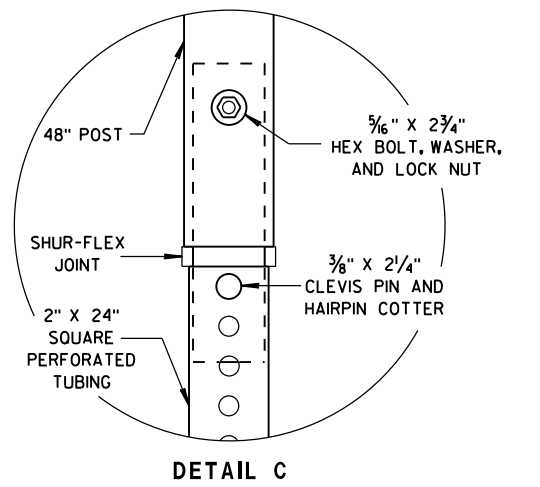
FRONT VIEW SIDE VIEW  
ALTERNATE 2



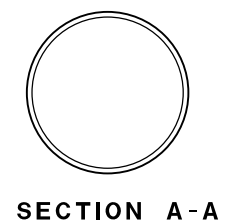
FRONT VIEW SIDE VIEW  
ALTERNATE 3



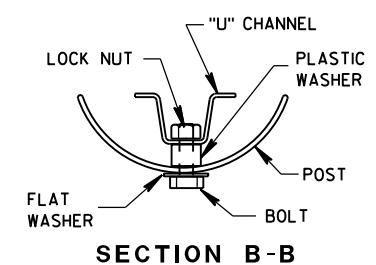
DETAIL B



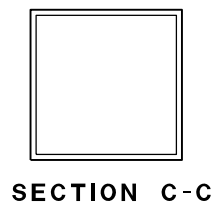
DETAIL C



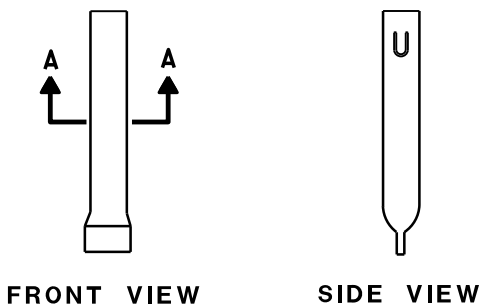
SECTION A-A



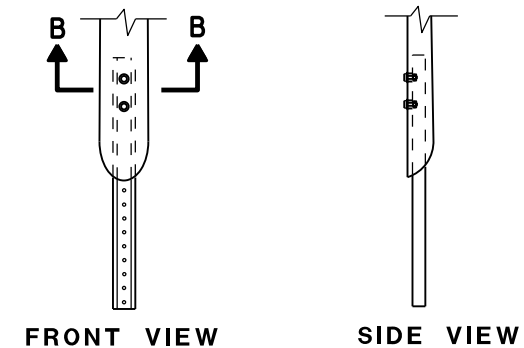
SECTION B-B



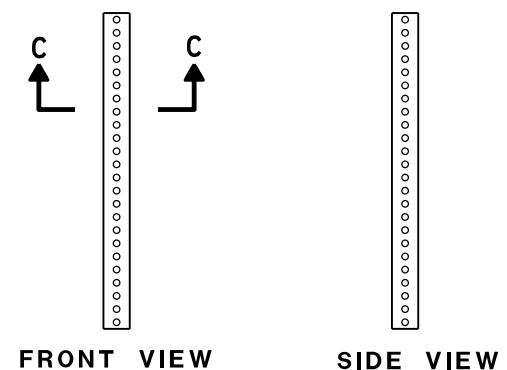
SECTION C-C



FRONT VIEW SIDE VIEW  
ALTERNATE 1



FRONT VIEW SIDE VIEW  
ALTERNATE 2



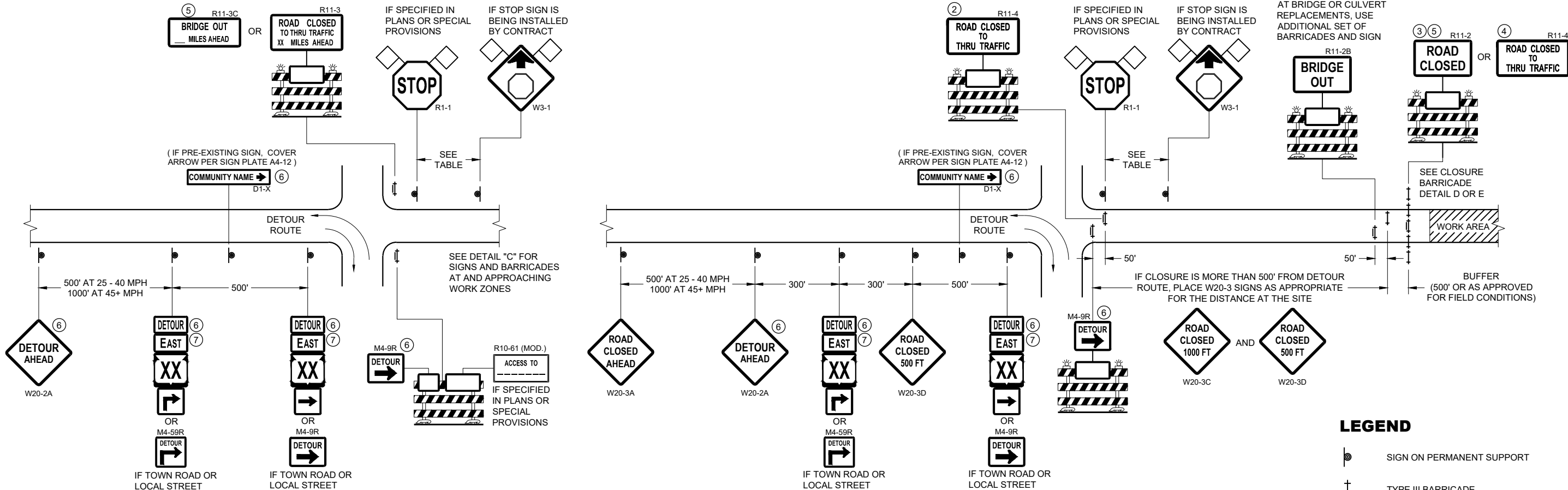
FRONT VIEW SIDE VIEW  
ALTERNATE 3

**FLEXIBLE MARKER POST ANCHORS**

**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 OR EQUAL TO 1/2 MILE FROM  
DETOUR ROUTE ( 1000 FEET IF URBAN )

**DETAIL B  
MAINLINE CLOSURE WITH POSTED DETOUR**

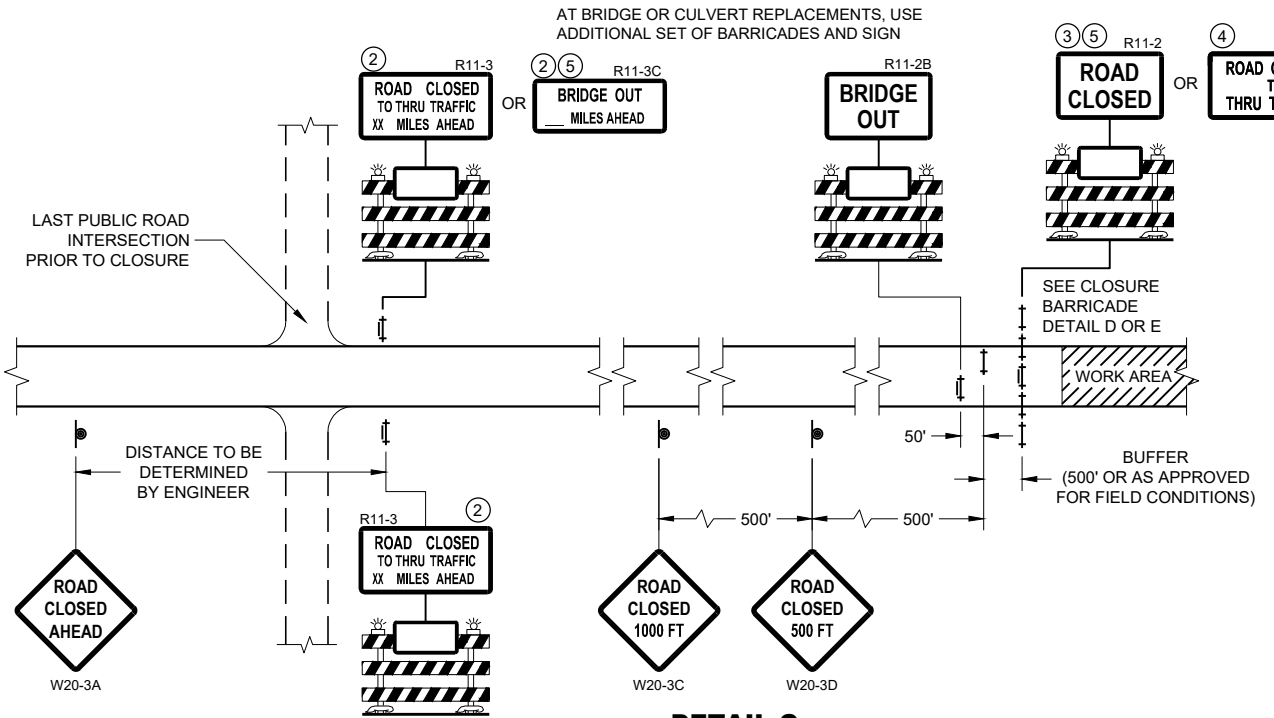
WORK ZONE LESS THAN 1/2 MILE FROM  
DETOUR ROUTE ( 1000 FEET IF URBAN )

**LEGEND**

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)

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

- M4 - 8
- M3 - X
- M1 - 4
- M1 - 6
- M1 - 5A
- M05 - 1
- M06 - 1



**DETAIL C  
MAINLINE CLOSURE, NO POSTED DETOUR**

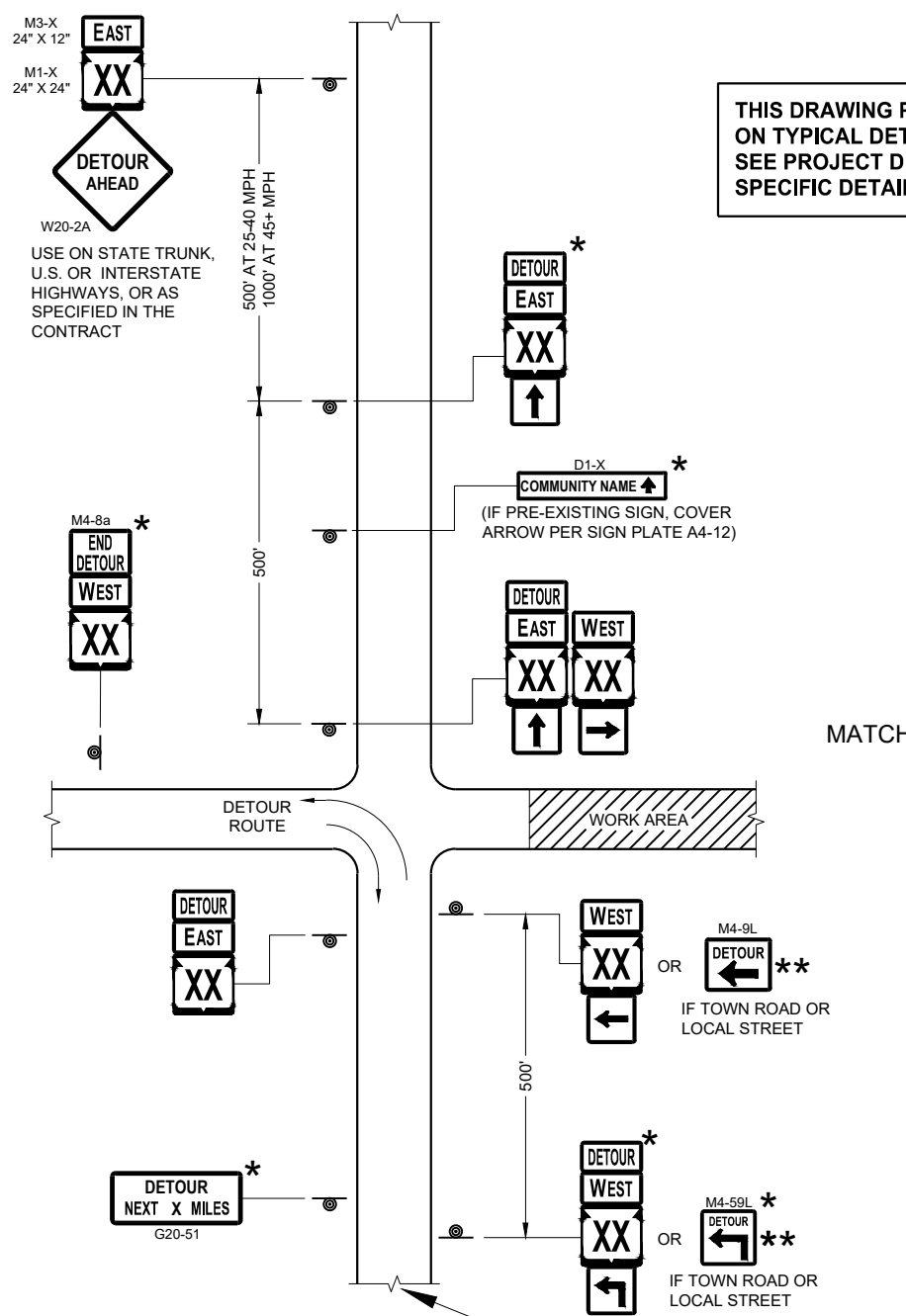
SEE SDD 15C2-SHEET "b"  
FOR GENERAL NOTES  
AND FOOTNOTES ① THROUGH ⑦

**BARRICADES AND SIGNS  
FOR MAINLINE CLOSURES**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
May 2023 /S/ Andrew Heidtke  
DATE DATE WORK ZONE ENGINEER

FHWA



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

**LEGEND**

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- M4 - 8
- M3 - X
- M1 - 4
- M1 - 6
- M1 - 5A
- M05 - 1
- M06 - 1
- M06 - 1

**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.

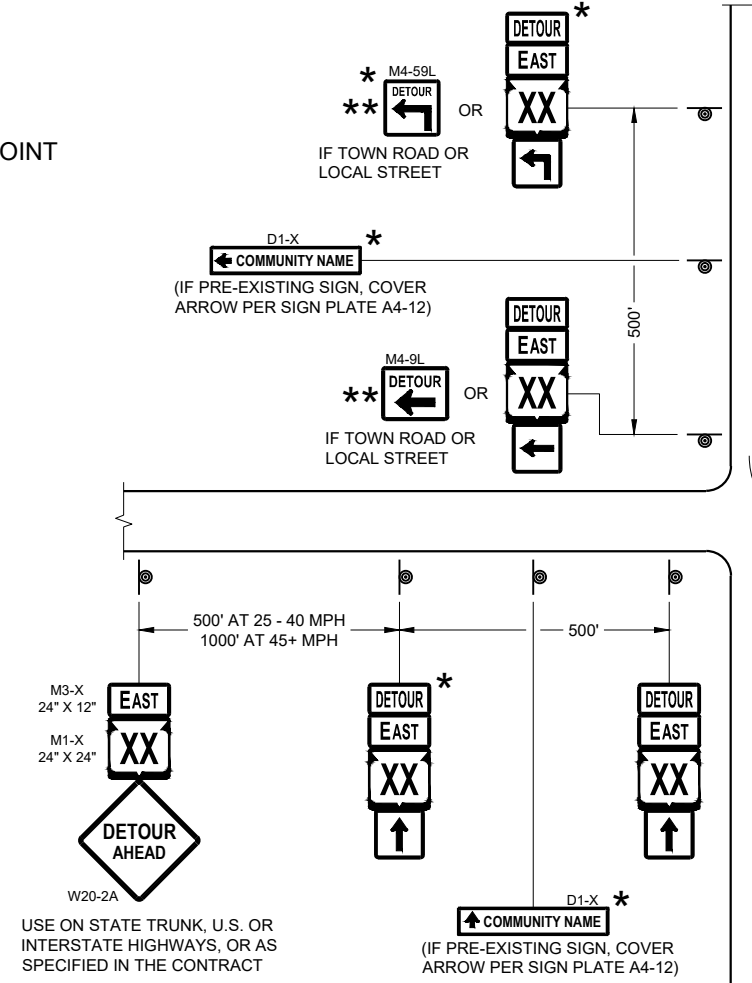
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

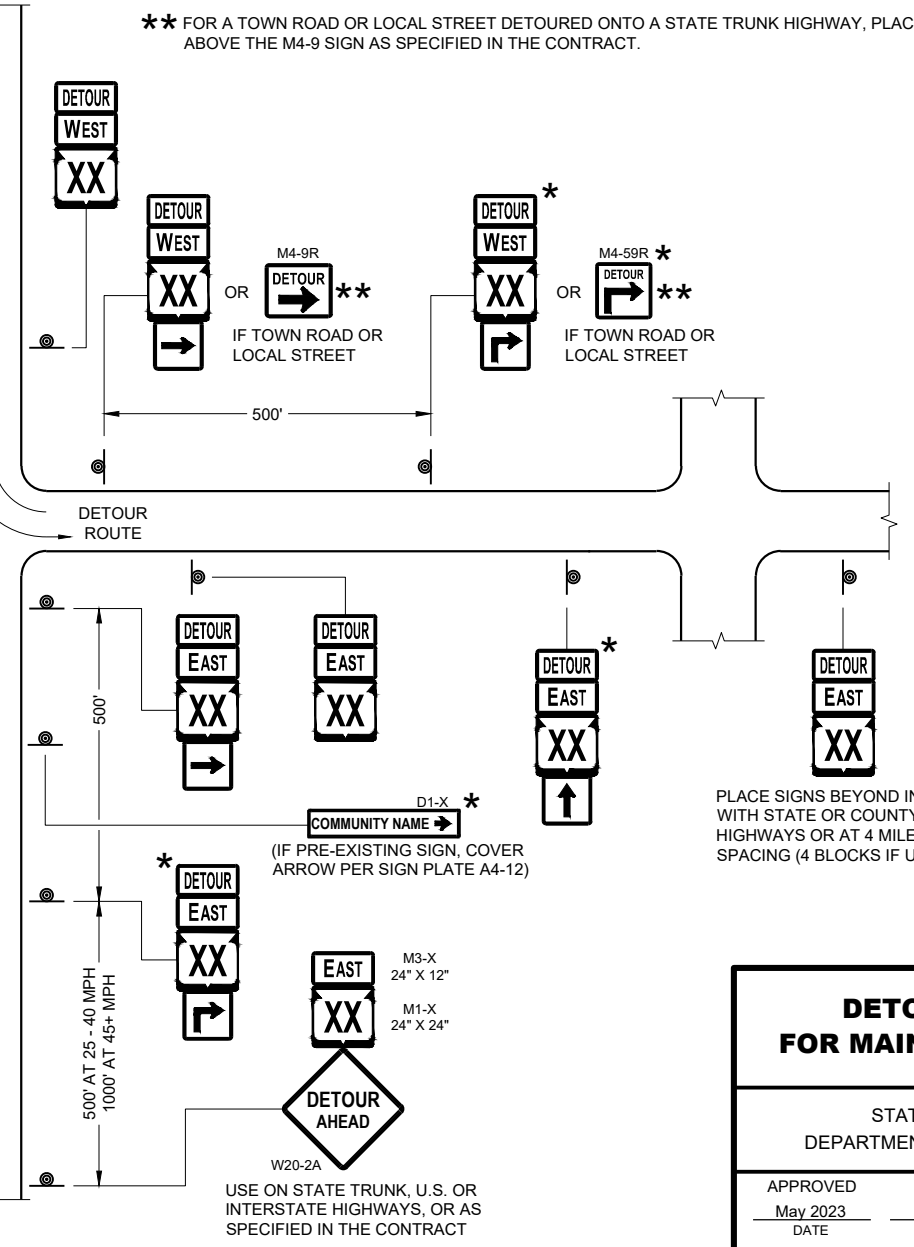
- M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-9 AND M4-59 SHALL BE 30" X 24"
- M4-8a SHALL BE 24" X 18"
- G20-51 SHALL BE 60" X 24"
- W20-2A 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.

MATCH POINT



**DETAIL F  
DETOUR SIGNING**



**DETOUR SIGNING  
FOR MAINLINE CLOSURES**

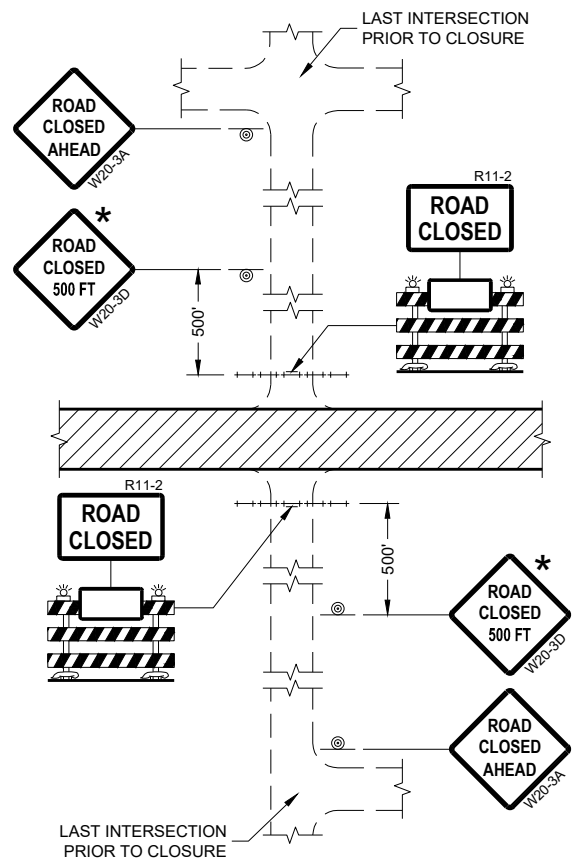
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
May 2023 /S/ Andrew Heidtke  
DATE WORK ZONE ENGINEER

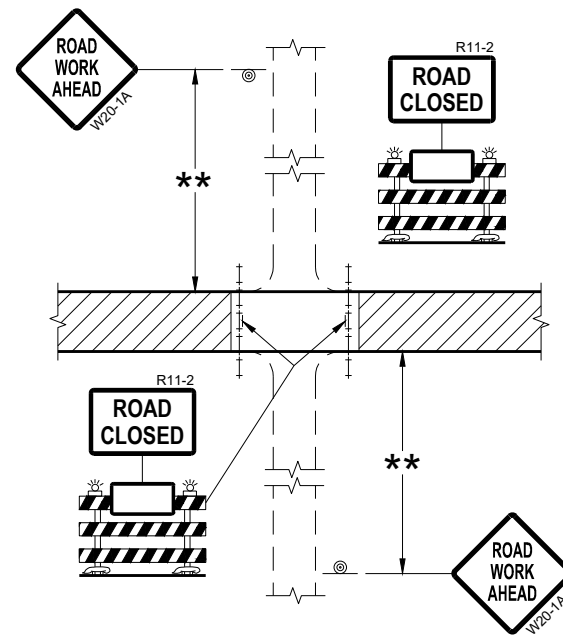
FHWA

SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

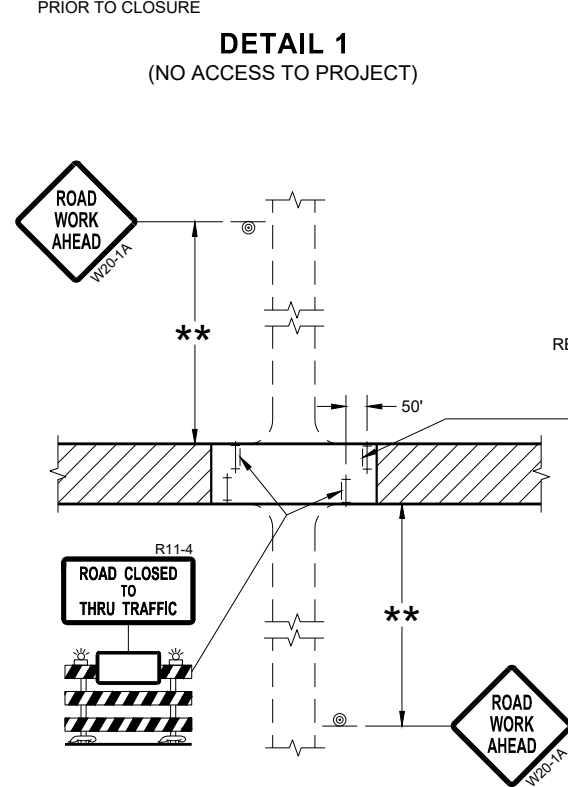
PLACE SIGNS BEYOND INTERSECTIONS WITH STATE OR COUNTY TRUNK HIGHWAYS OR AT 4 MILE MAXIMUM SPACING (4 BLOCKS IF URBAN AREA)



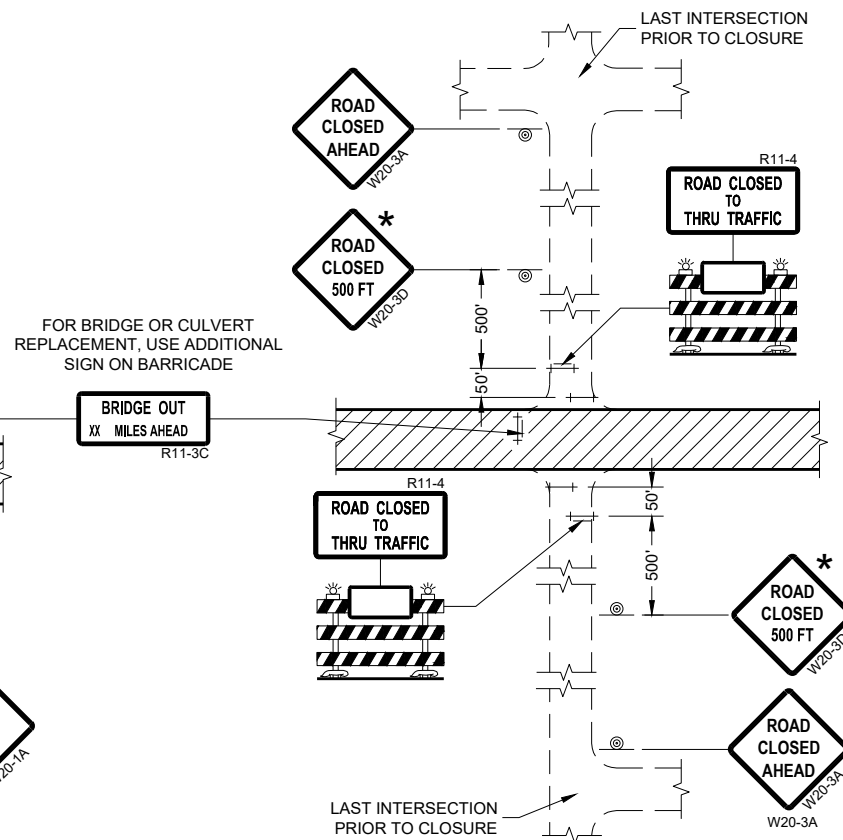
**DETAIL 1**  
(NO ACCESS TO PROJECT)



**DETAIL 2**  
(PUBLIC CROSS-TRAFFIC MAINTAINED.  
NO ACCESS TO PROJECT)



**DETAIL 3**  
(PUBLIC CROSS-TRAFFIC MAINTAINED.  
CONTRACTOR, LOCAL BUSINESS AND  
RESIDENT 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 (500 FEET DESIRABLE) 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 REESTABLISHED.

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

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN 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 FEET OR LESS FROM THE WORK ZONE.

\*\* 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.

**LEGEND**

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

**BARRICADES AND SIGNS  
FOR  
SIDEROAD CLOSURES**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
July 2018 /S/ Andrew Heidtke  
DATE WORK ZONE ENGINEER



**GENERAL NOTES**

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.




ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

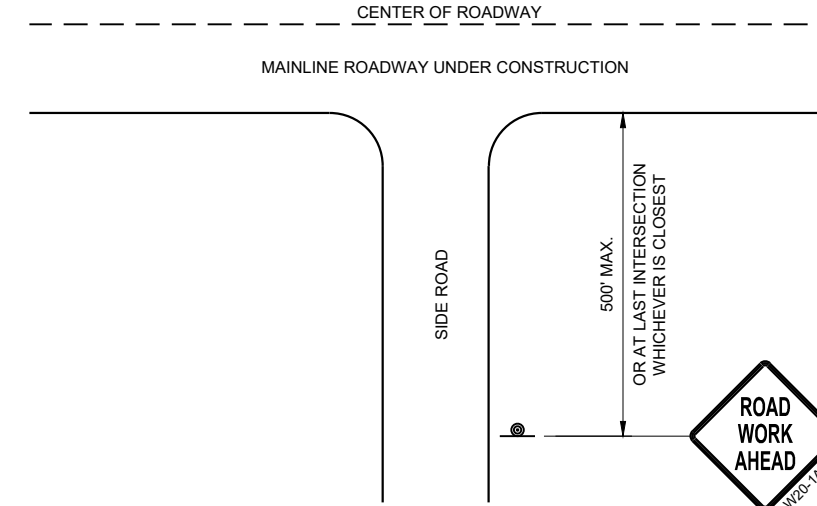
SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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 REESTABLISHED.

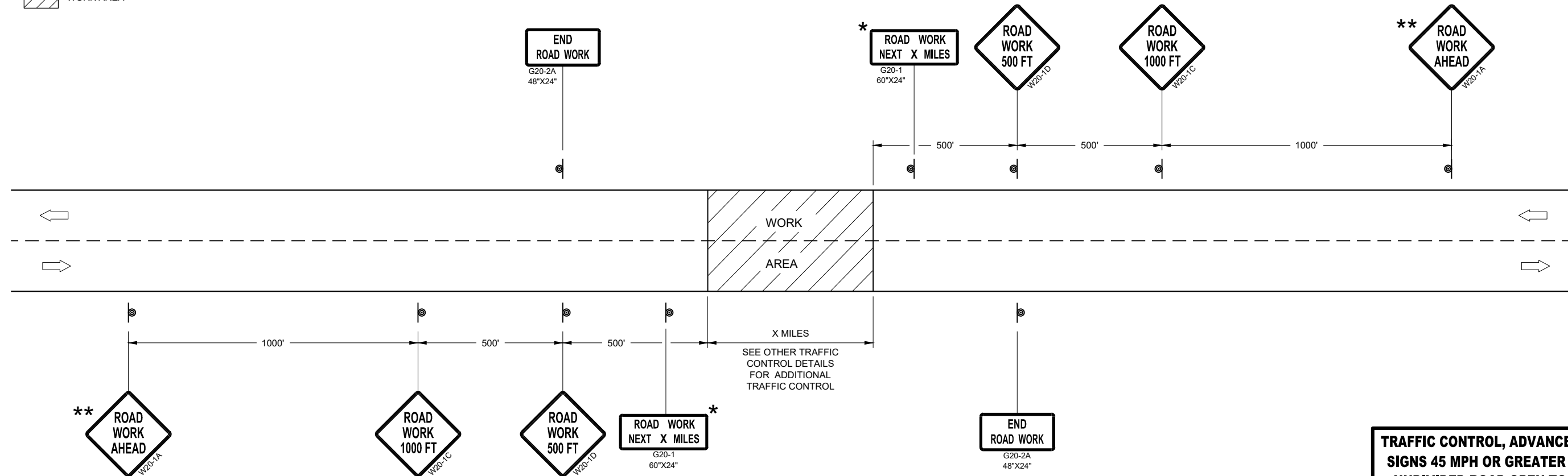
- \* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS
- \*\* PLACE AN ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.

**LEGEND**

-  SIGN ON PERMANENT SUPPORT
-  DIRECTION OF TRAFFIC
-  WORK AREA



**TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL**



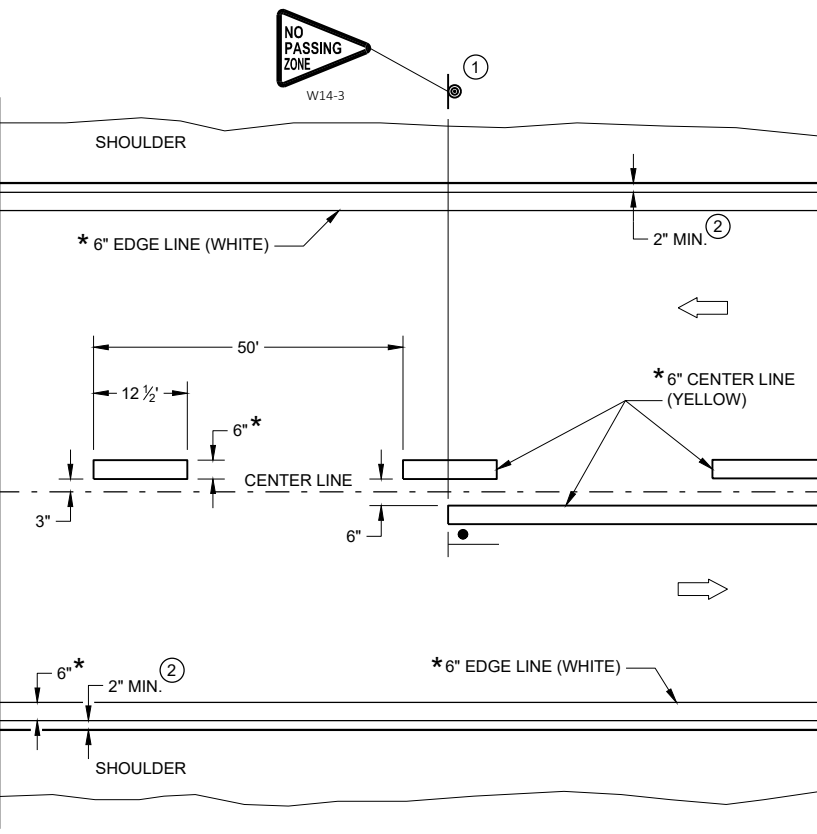
**TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45MPH OR GREATER**

**TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC**

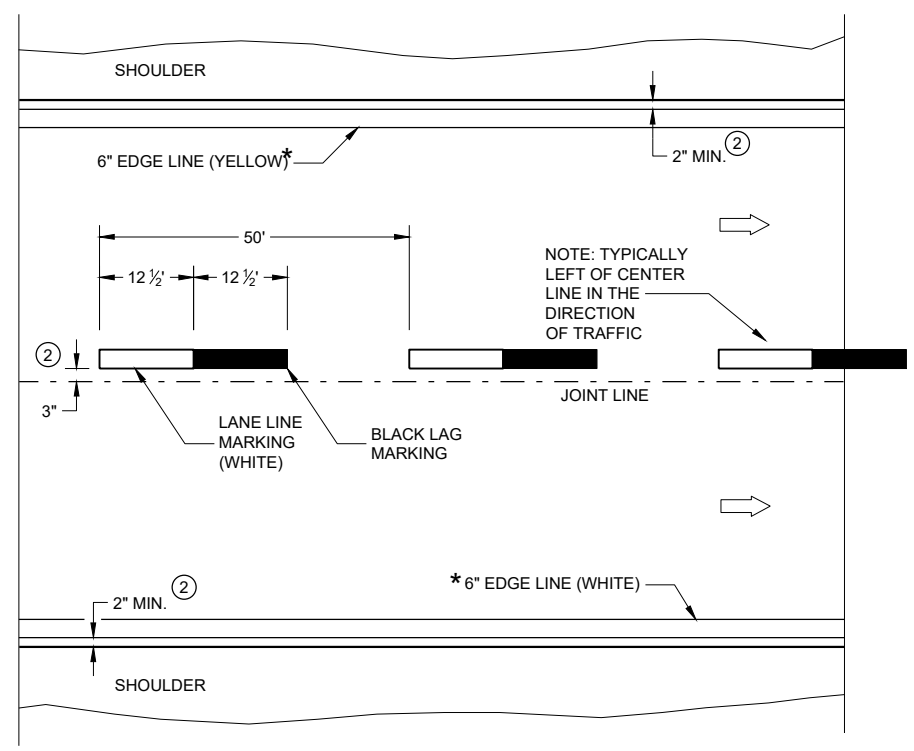
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
DATE July 2018 /S/ Andrew Heidtke  
WORK ZONE ENGINEER

FHWA



**TWO WAY TRAFFIC**



**ONE WAY TRAFFIC**

**PERMANENT PAVEMENT MARKING**

\* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

**GENERAL NOTES**

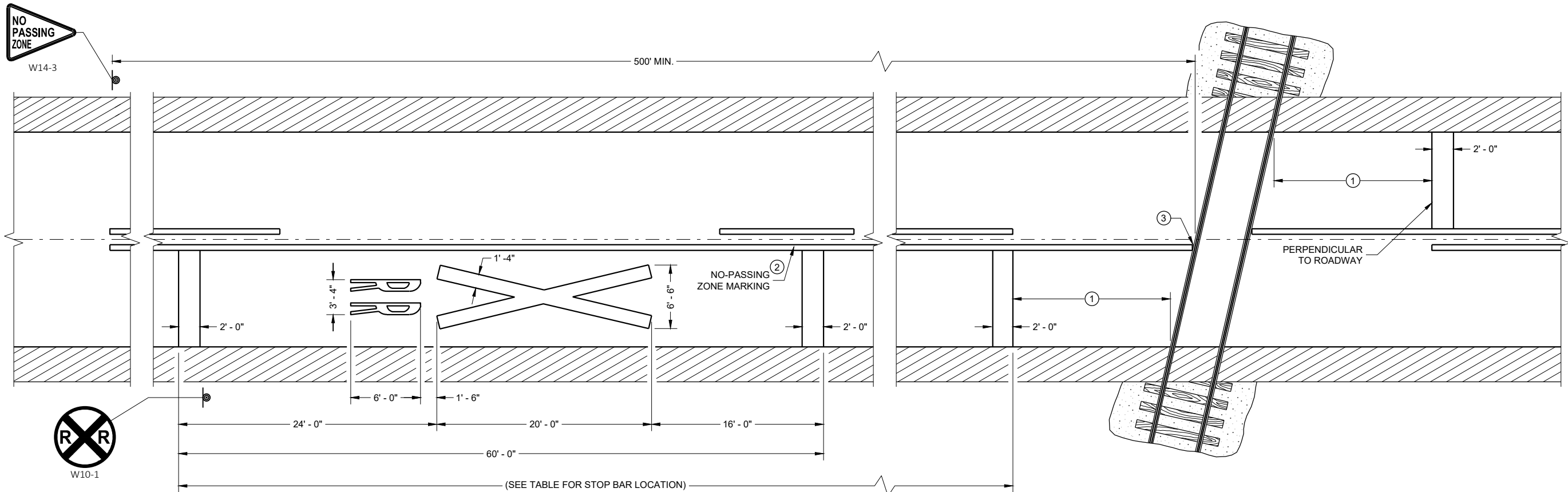
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

- ① LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
- ② MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

**LEGEND**

- "T" MARKING
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC

<b>PERMANENT LONGITUDINAL PAVEMENT MARKINGS</b>	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2023 DATE	/S/ Jeannie Silver STATEWIDE SIGNING AND MARKING ENGINEER
FHWA	



**PAVEMENT MARKING**

**LEGEND**

⊕ SIGN ON PERMANENT SUPPORT

**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.

ON MULTI-LANE ROADS THE TRANSVERSE BANDS SHOULD EXTEND ACROSS ALL APPROACH LANES, AND INDIVIDUAL R X R SYMBOLS SHOULD BE USED IN EACH APPROACH LANE.

CENTER OR LANE LINES AND NO-PASSING ZONE MARKINGS SHOWN ON THIS DRAWING ARE REQUIRED AND PAID FOR UNDER OTHER ITEMS IN THE CONTRACT.

TRACE EXISTING SYMBOL WHERE EXISTING SYMBOLS ARE PLACED.

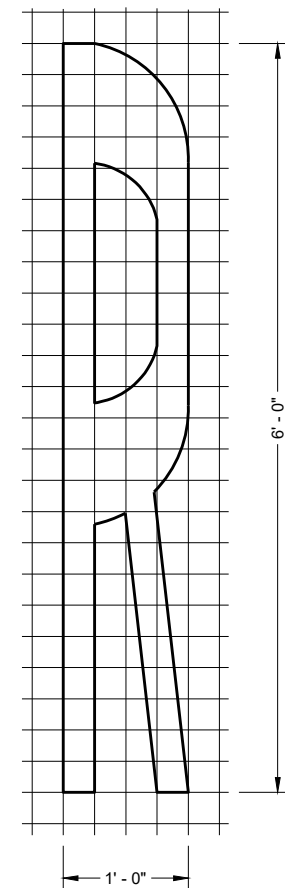
- ① PLACE STOP BAR APPROXIMATELY 8 FEET IN ADVANCE OF THE GATE (IF PRESENT), BUT NO CLOSER THAN 15 FEET IN ADVANCE OF THE NEAREST RAIL. FIELD-FIT STOP BAR TO MAXIMIZE VIEW OF APPROACHING TRAIN.
- ② 500' MINIMUM. MARKING LIMITS MAY BE EXTENDED AS DIRECTED BY THE ENGINEER TO MEET ADJACENT NO-PASSING ZONE MARKINGS.
- ③ FOR MULTIPLE TRACK CROSSINGS, THE BARRIER LINE SHALL EXTEND TO THE NEAR RAIL OF THE FURTHEST TRACK IN THE DIRECTION OF HIGHWAY TRAVEL.

**DISTANCE TABLE**

TABLE BASED UPON 2C-4 WISCONSIN SUPPLEMENT OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

POSTED SPEED (M.P.H.)	DIMENSION RANGE (FEET)
25	150* - 250'
30	200* - 300'
35	250* - 450'
40	300* - 500'
45	400* - 650'
50	550* - 800'
55	750* - 1000'
60	1000* - 1250'
65	1000* - 1250'

\* THE MINIMUM DISTANCES IN THE TABLE ARE DESIRABLE AND SHOULD BE USED. THE DISTANCES MAY BE INCREASED UP TO THE MAXIMUM TO ALLOW FOR FIELD CONDITIONS SUCH AS THE CLOSED PROXIMITY OF DRIVEWAYS, BRIDGES, SIDE ROADS OR OTHER FEATURES THAT WOULD PROHIBIT THE MINIMUM DISTANCES FROM BEING USED.



**SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD - HIGHWAY GRADE CROSSINGS**

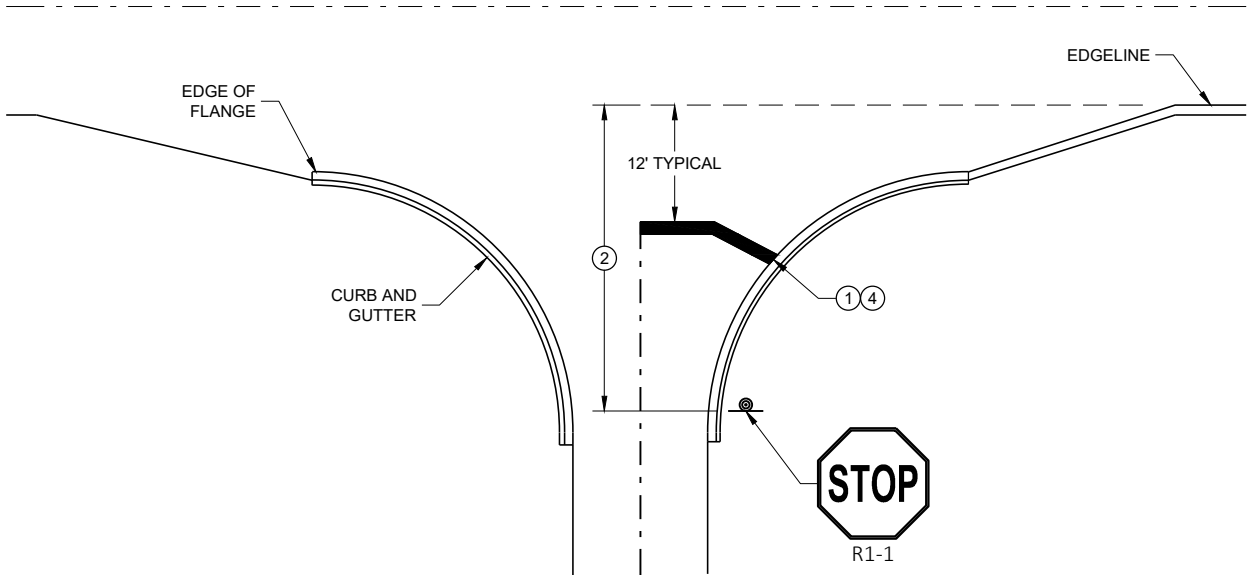
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
May 2023 /S/ Matthew R. Rauch  
DATE STATE SIGNING AND MARKING ENGINEER

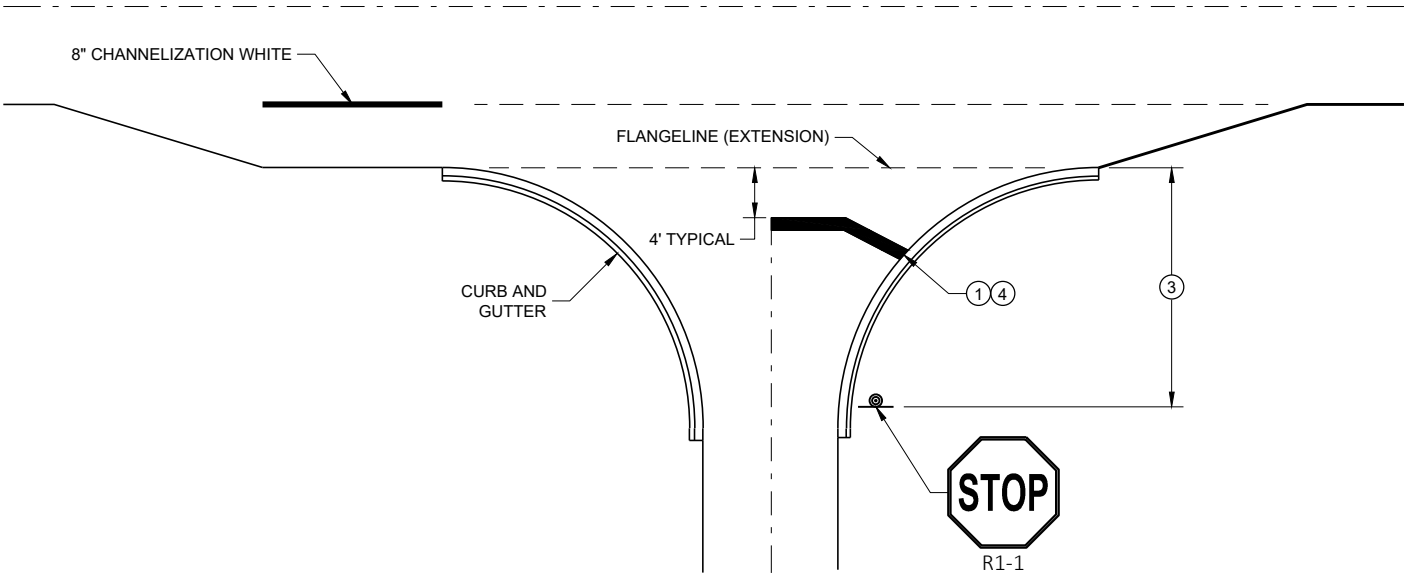
**GENERAL NOTES**

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

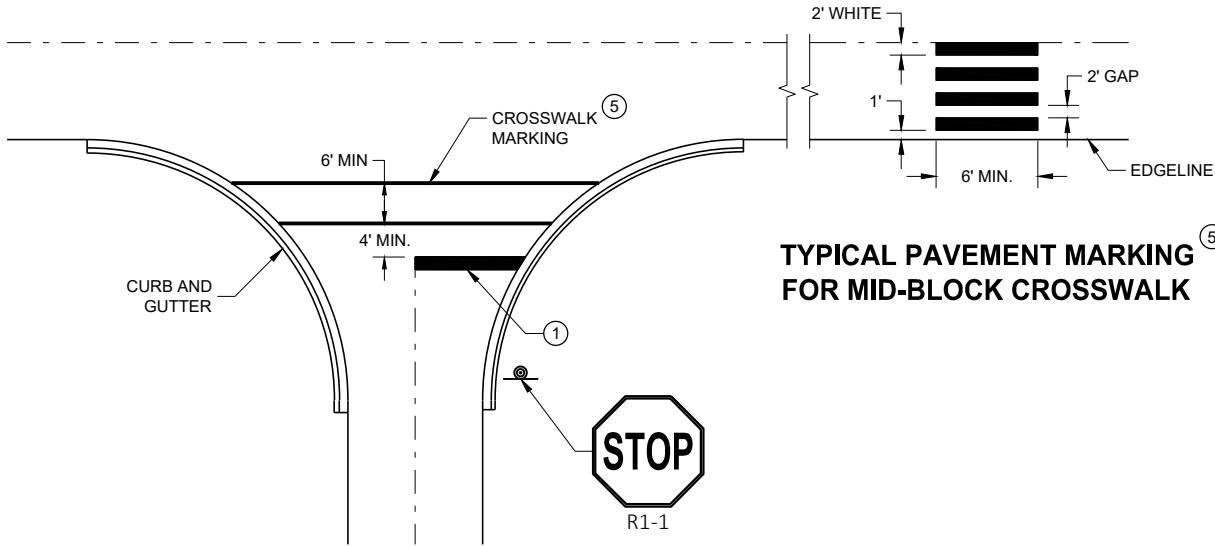
- ① 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
- ② NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
- ③ NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION.
- ④ MOVE CLOSER TO THE EDGE OF TRAVEL LINE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).
- ⑤ LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES INSTEAD.



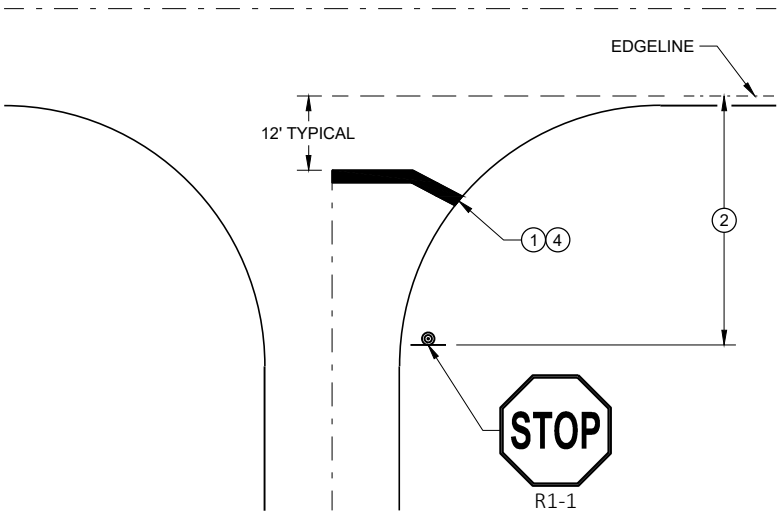
**TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER**



**TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE**

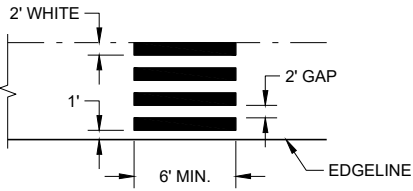


**TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING**



**TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER**

**TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK**

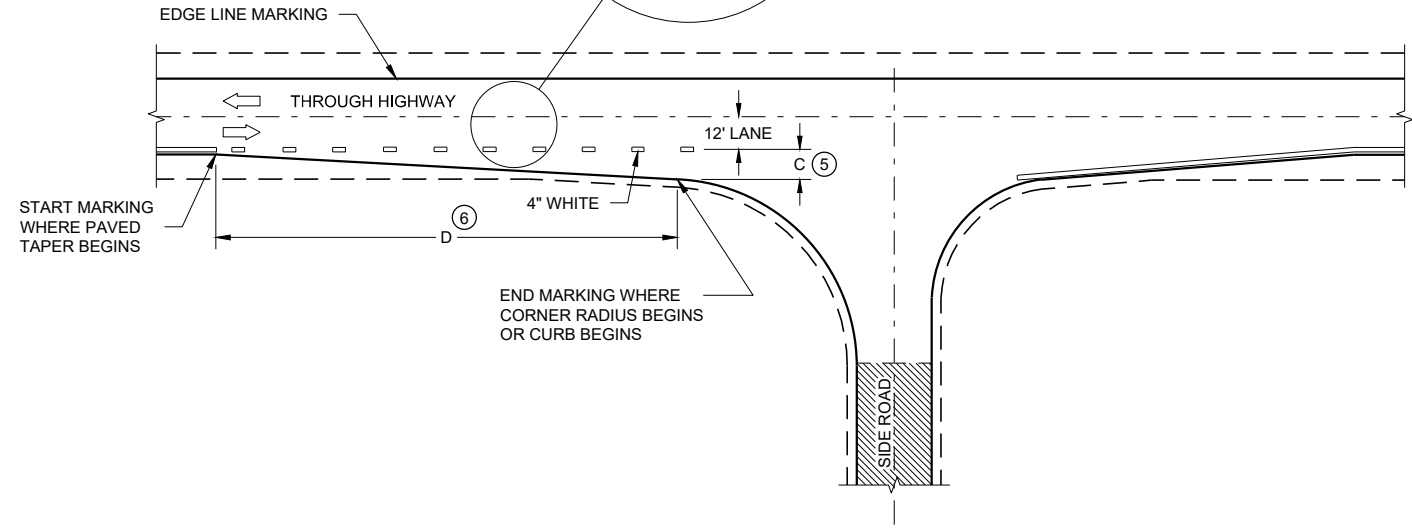
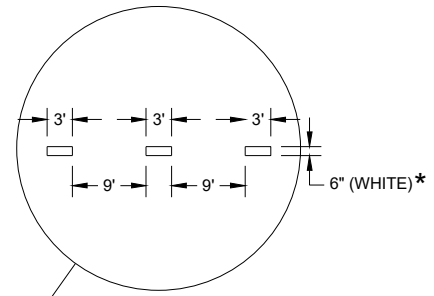


**STOP LINE AND CROSSWALK PAVEMENT MARKING**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
November 2019 /S/ Matthew Rauch  
DATE STATE SIGNING AND MARKING ENGINEER

FHWA



**MINOR INTERSECTION**

\* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

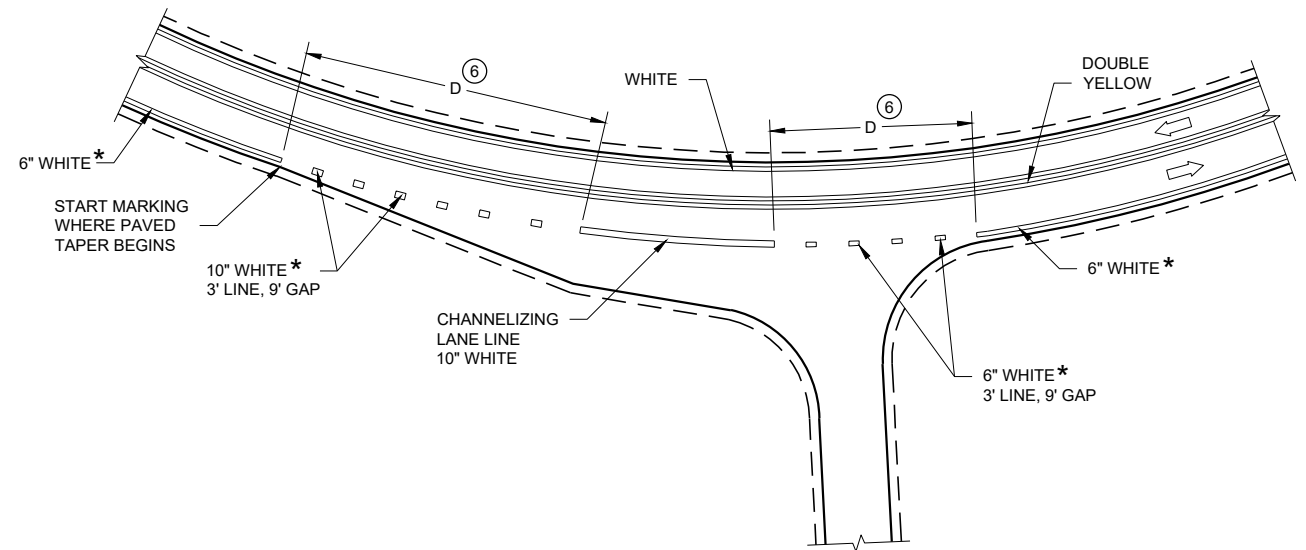
**GENERAL NOTES**

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

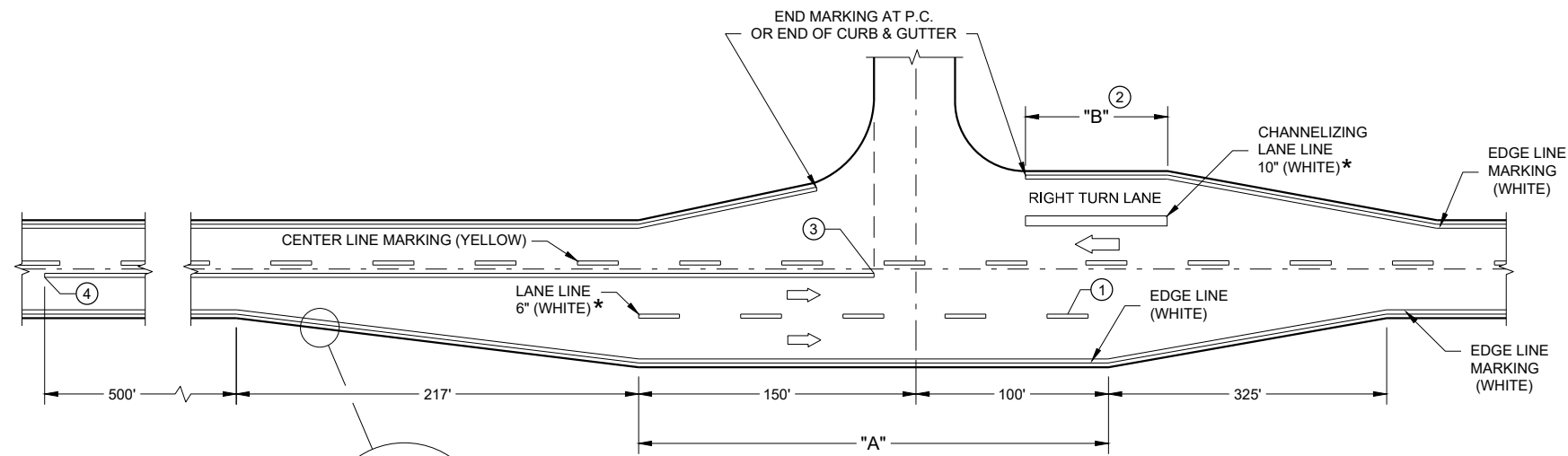
- ① WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
- ② WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
- ③ BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
- ④ BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.
- ⑤ WHEN DISTANCE "C" IS LESS THAN 4 FEET, OMIT DOTTED EXTENSION.
- ⑥ WHEN DISTANCE "D" IS LESS THAN 50 FEET, OMIT DOTTED EXTENSION.

**LEGEND**

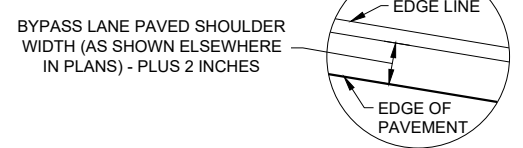
➔ DIRECTION OF TRAVEL



**INTERSECTION ON OUTSIDE OF CURVE**



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

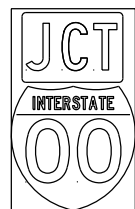


BYPASS LANE PAVED SHOULDER WIDTH (AS SHOWN ELSEWHERE IN PLANS) - PLUS 2 INCHES

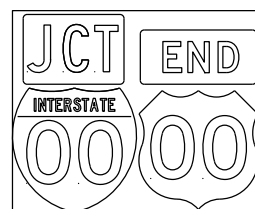
**PAVEMENT MARKING  
(INTERSECTIONS)**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

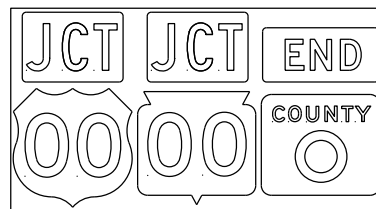
# TYPICAL ASSEMBLIES



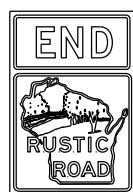
J1-1



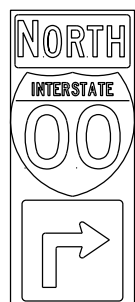
J1-2



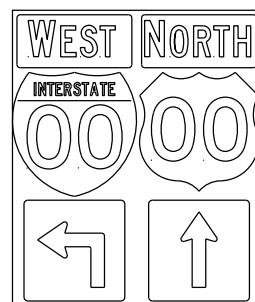
J1-3



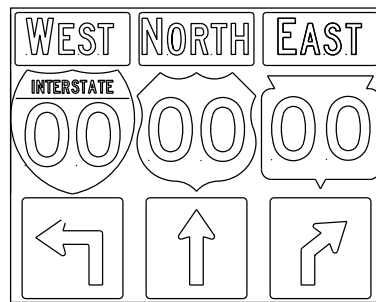
JR1-1



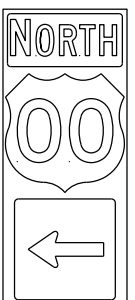
J2-1



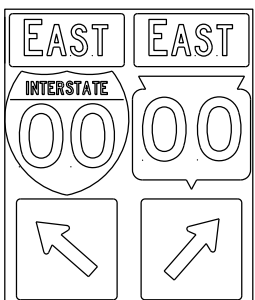
J2-2



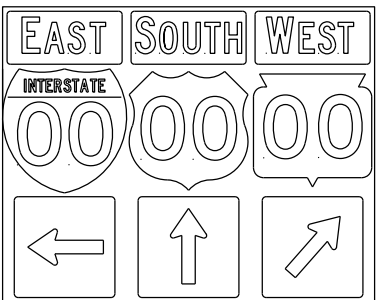
J2-3



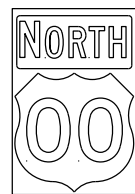
J3-1



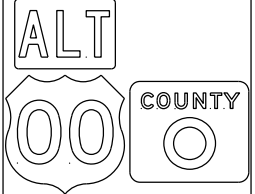
J3-2



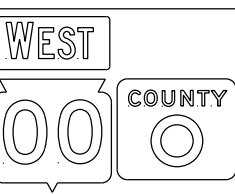
J3-3



J4-1



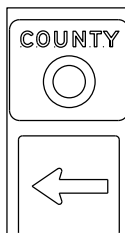
J4-2



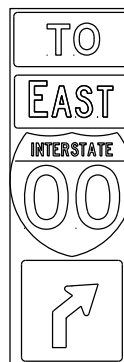
J4-2



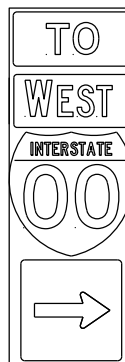
J12-1



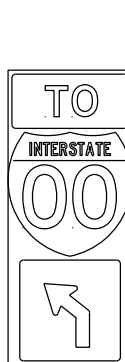
J13-1



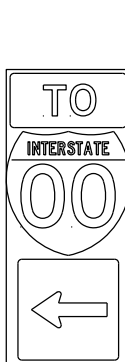
J32-1



J33-1



J22-1



J23-1



JR13-1



JR23-1

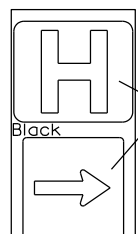


JR99-1



JV

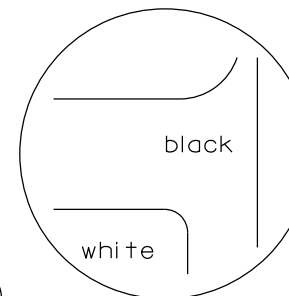
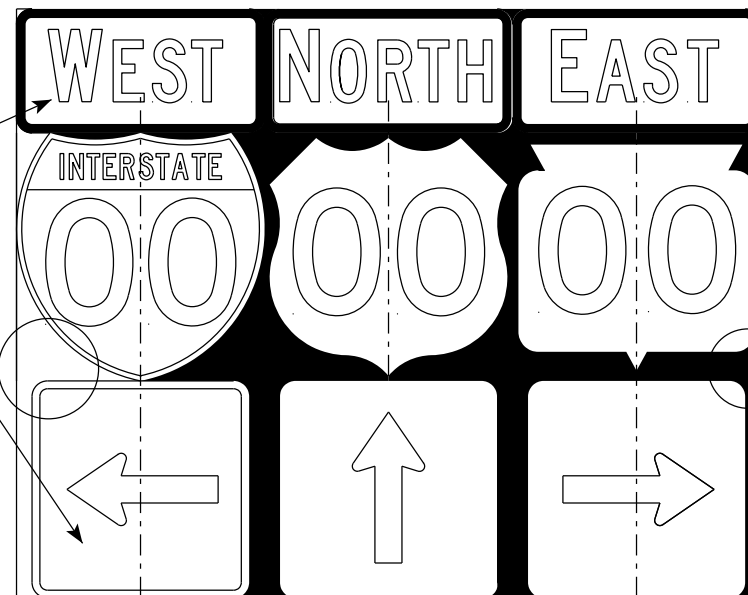
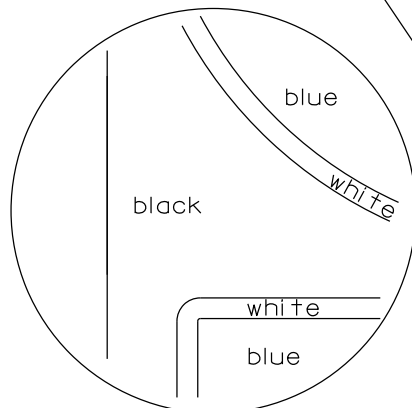
(Typical Vertical J-Assembly See Note 10 and 11)



JH-1

Blue Background

blue background with interstate



black background

## NOTES

- Signs are Type II - Type H Reflective
- 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 MI-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.

### ROUTE MARKERS & COMPONENTS IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

*Matthew R. Rauch*  
for State Traffic Engineer

DATE 3/18/21

PLATE NO. A2-1S.9

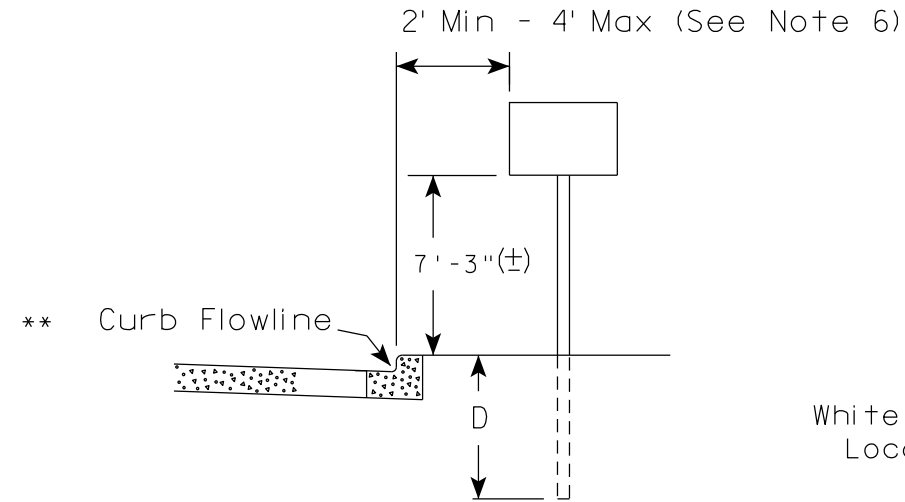
PROJECT NO:

SHEET NO:

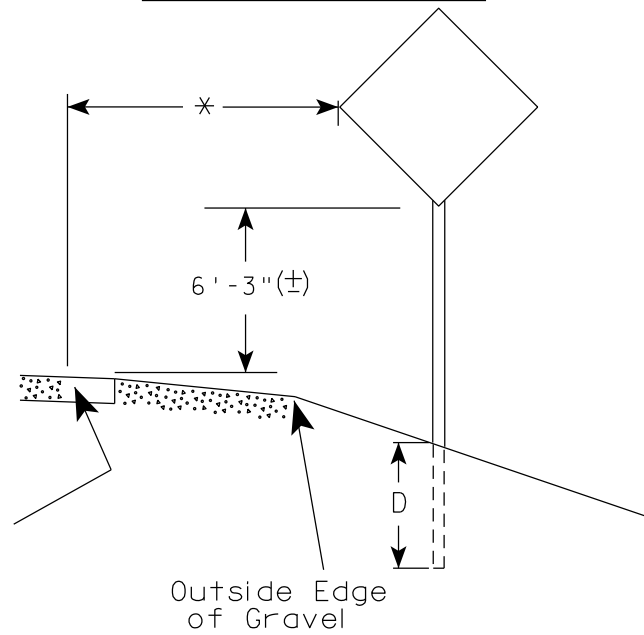
E

URBAN AREA

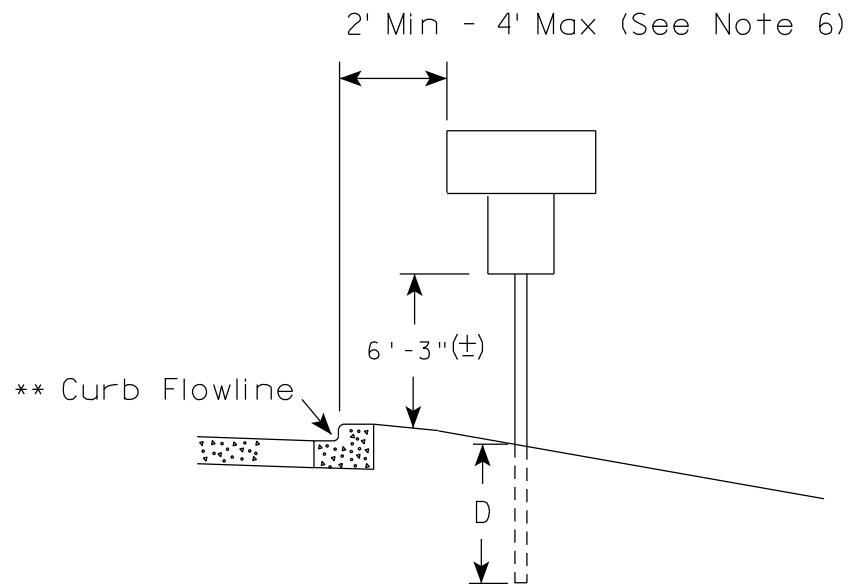
RURAL AREA (See Note 2)



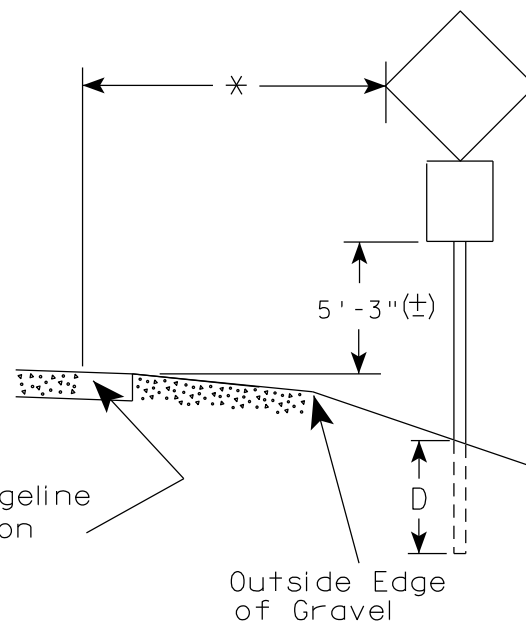
White Edgeline Location



Outside Edge of Gravel



White Edgeline Location



Outside Edge of Gravel

POST EMBEDMENT DEPTH

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

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 or behind barrier wall, see A4-10 sign plate.  
The Double Arrow sign (W12-1D) 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" (±).
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 signs mounted on traffic signal poles is 5'- 3" (±).
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. The (±) tolerance for mounting height is 3 inches.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the Engineer.

\* \* 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.

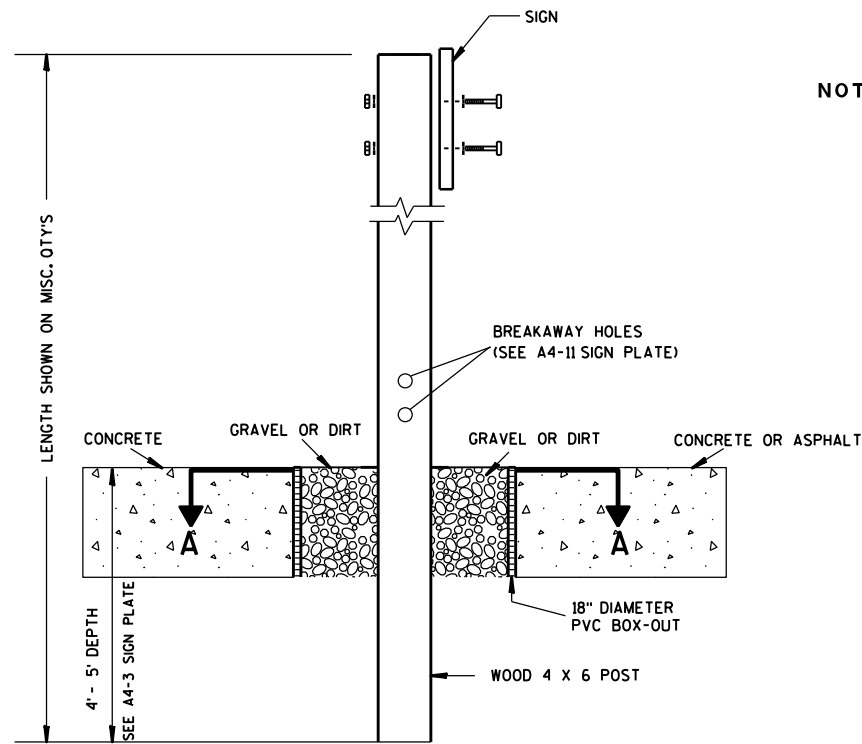
\* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

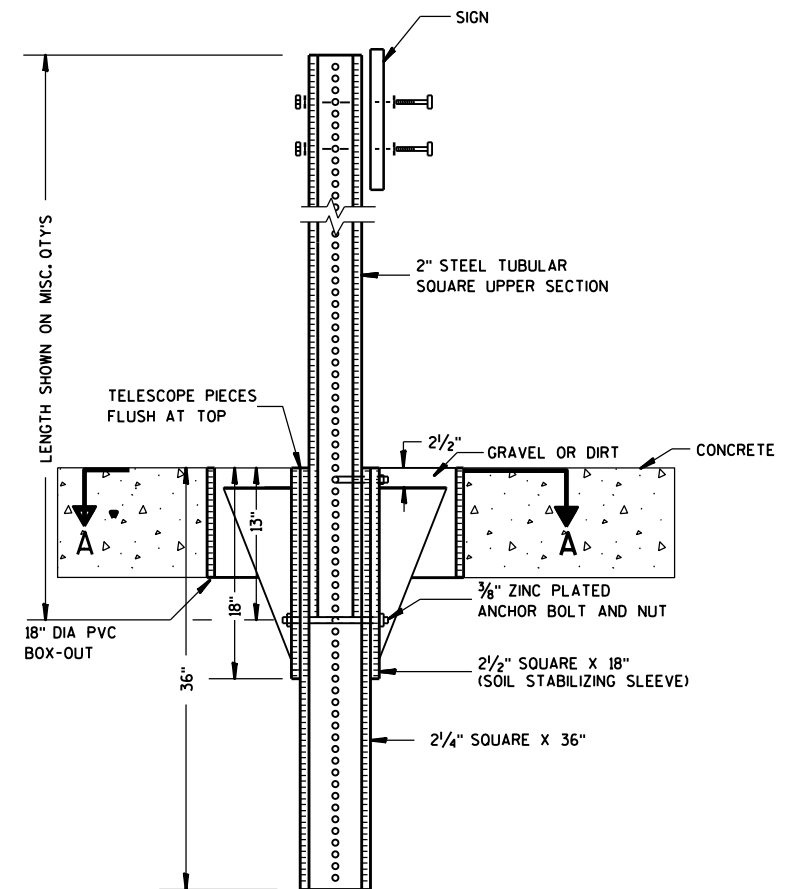
DATE 5/13/2020 PLATE NO. A4-3.22



**ELEVATION VIEW**

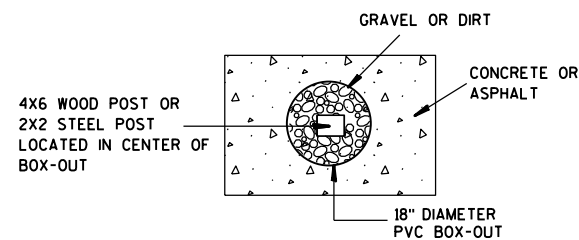
**DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT**

- NOTES:**
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
  2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
  3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



**ELEVATION VIEW**

**DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT**



**PLAN VIEW**

**FOR NEW CONCRETE/ ASPHALT INSTALLATIONS**

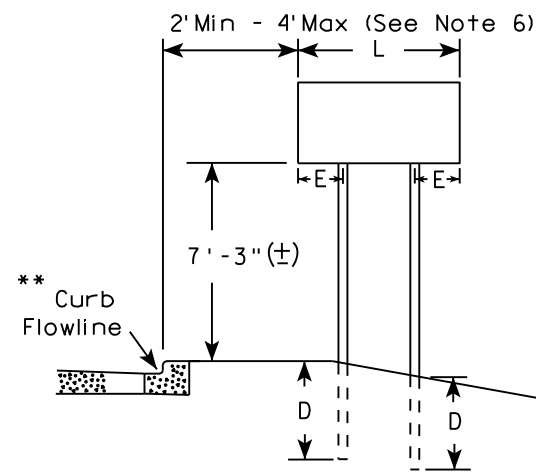
<b>SIGN POST BOX-OUTS A4-3B</b>	
<small>WISCONSIN DEPT OF TRANSPORTATION</small>	
APPROVED <i>Matthew R. Rauch</i> <small>for State Traffic Engineer</small>	
<small>DATE 1/27/14</small>	<small>PLATE NO. A4-3B.1</small>



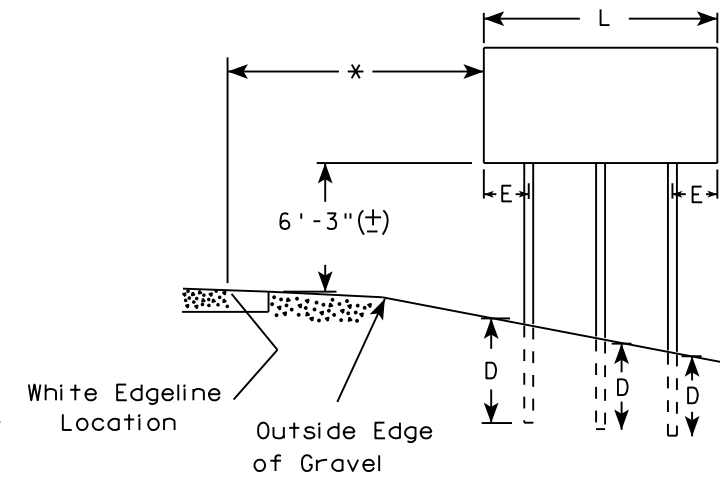
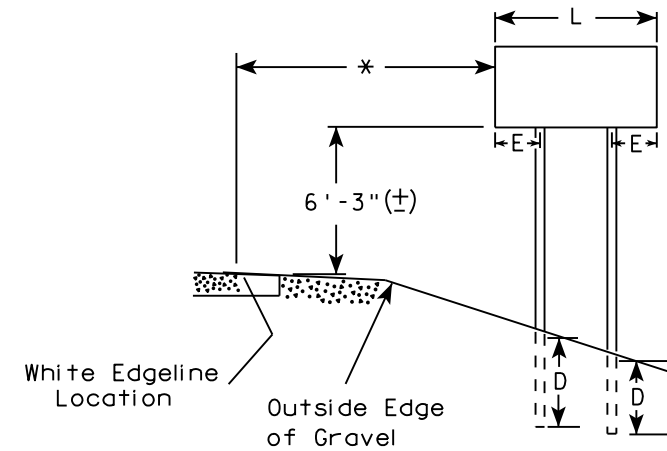
GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. 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), 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" (±).

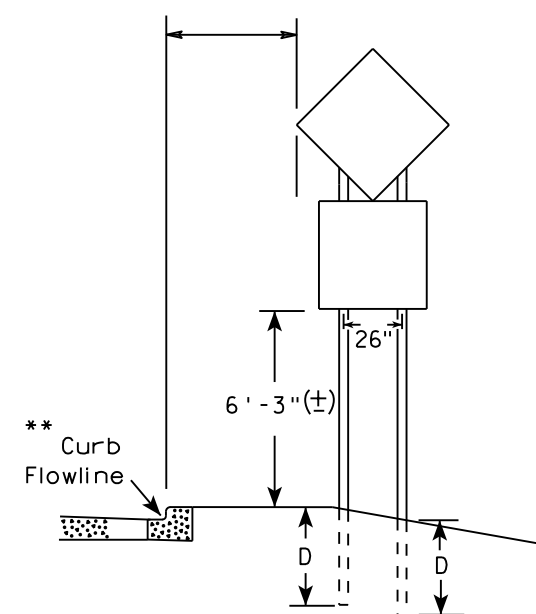
URBAN AREA



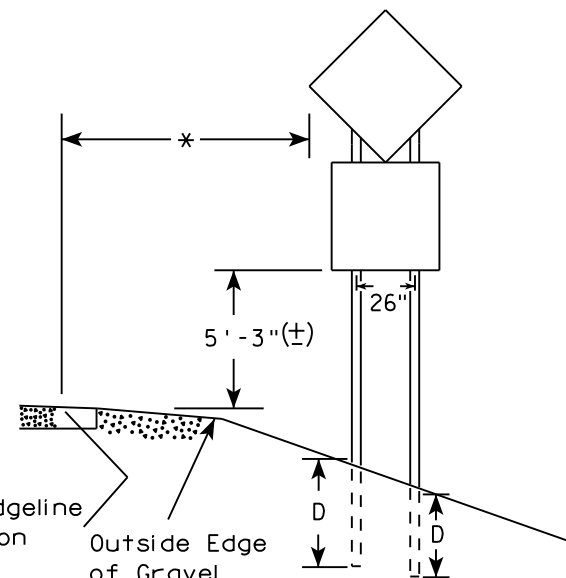
RURAL AREA (See Note 3)



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



48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

\* 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.

\*\* 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.

\*\*\* See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
L	E
Greater than 48" Less than 60"	12"
60" to 108"	L/5

\*\*\*

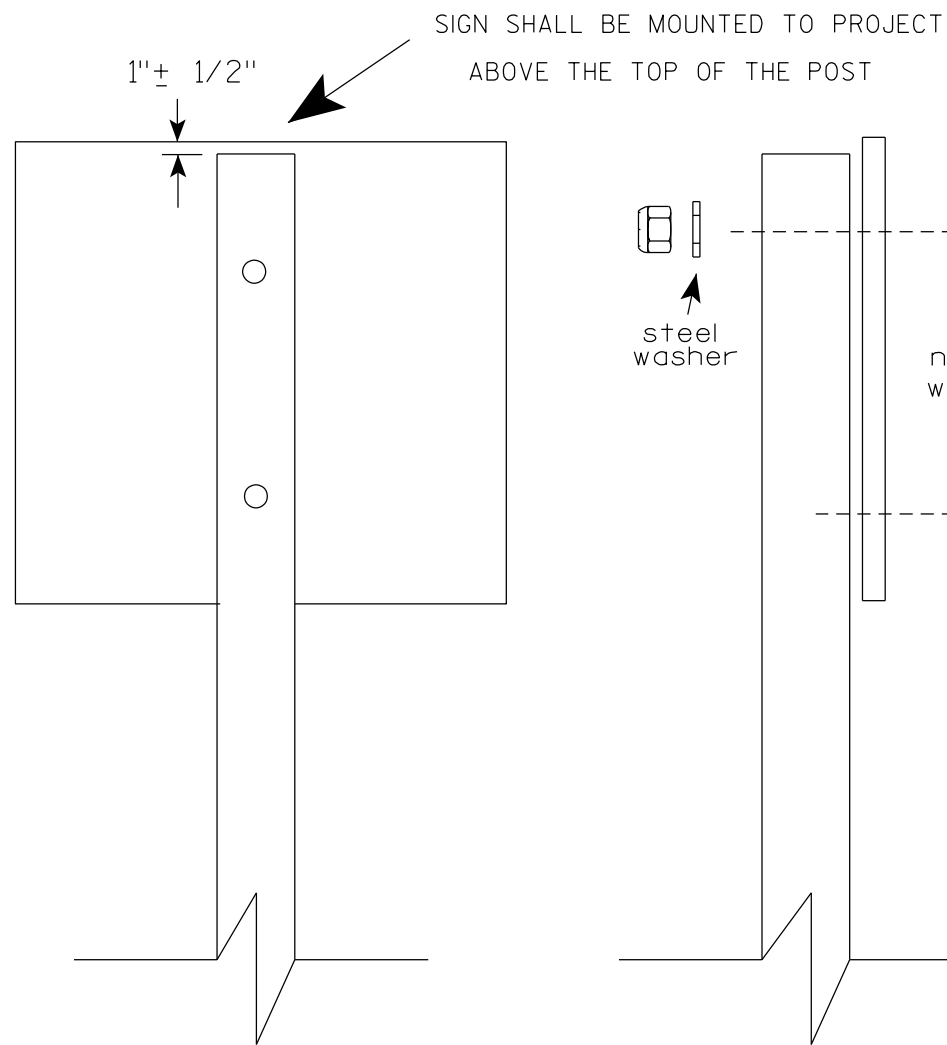
SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION  
 APPROVED *Matthew R. Rauch*  
 For State Traffic Engineer  
 DATE 8/21/17 PLATE NO. A4-4.15



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.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)  
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)  
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

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

\* 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

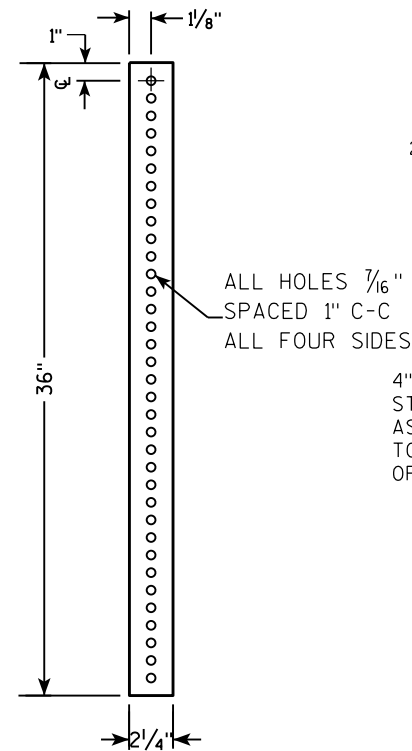
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R Rauch*  
For State Traffic Engineer

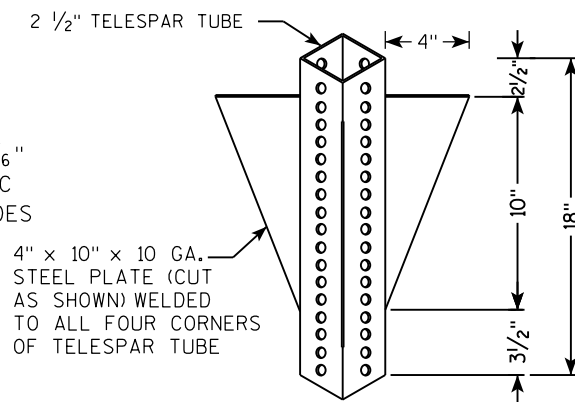
DATE 4/1/2020 PLATE NO. A4-8.9

**TELESCOPIC TUBING ANCHORS  
TWO PIECE SYSTEM**

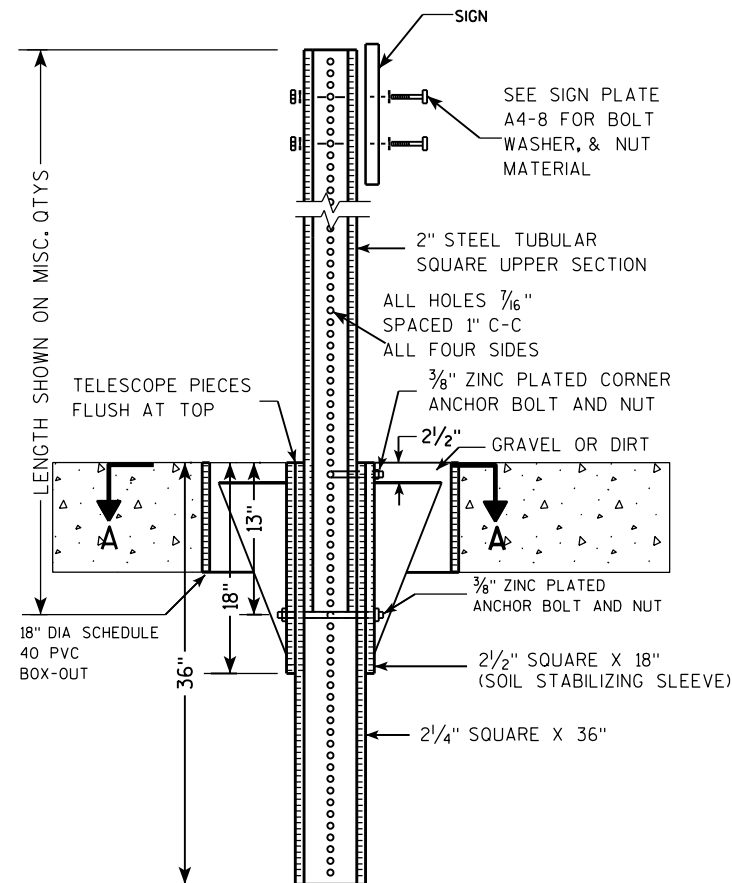
2 1/4" SQUARE  
12 GAUGE  
PERFORATED  
GALVANIZED FINISH



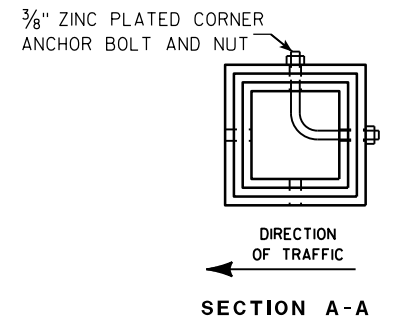
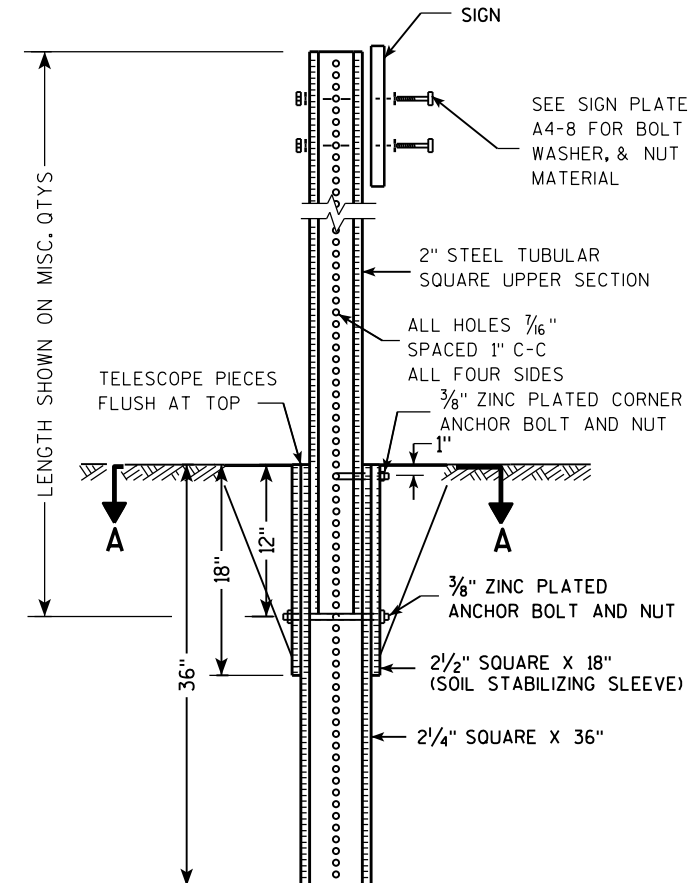
2 1/2" SQUARE  
12 GAUGE  
OMNI-DIRECTIONAL  
PERFORATED  
SOIL STABILIZING SLEEVE  
GALVANIZED FINISH



**DETAIL OF TUBULAR STEEL SIGN POST  
(IN POURED CONCRETE OR ASPHALT)**



**DETAIL OF TUBULAR STEEL SIGN POST  
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)**



Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

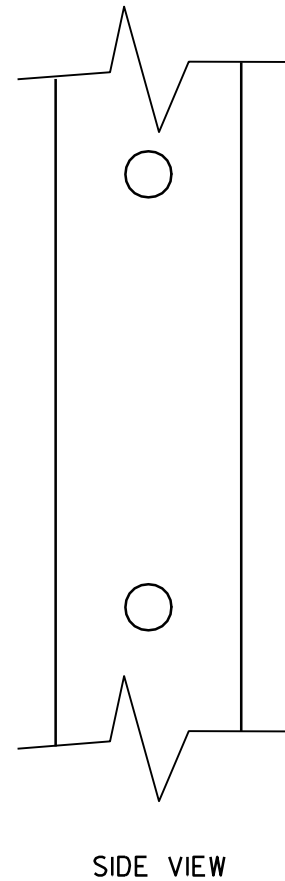
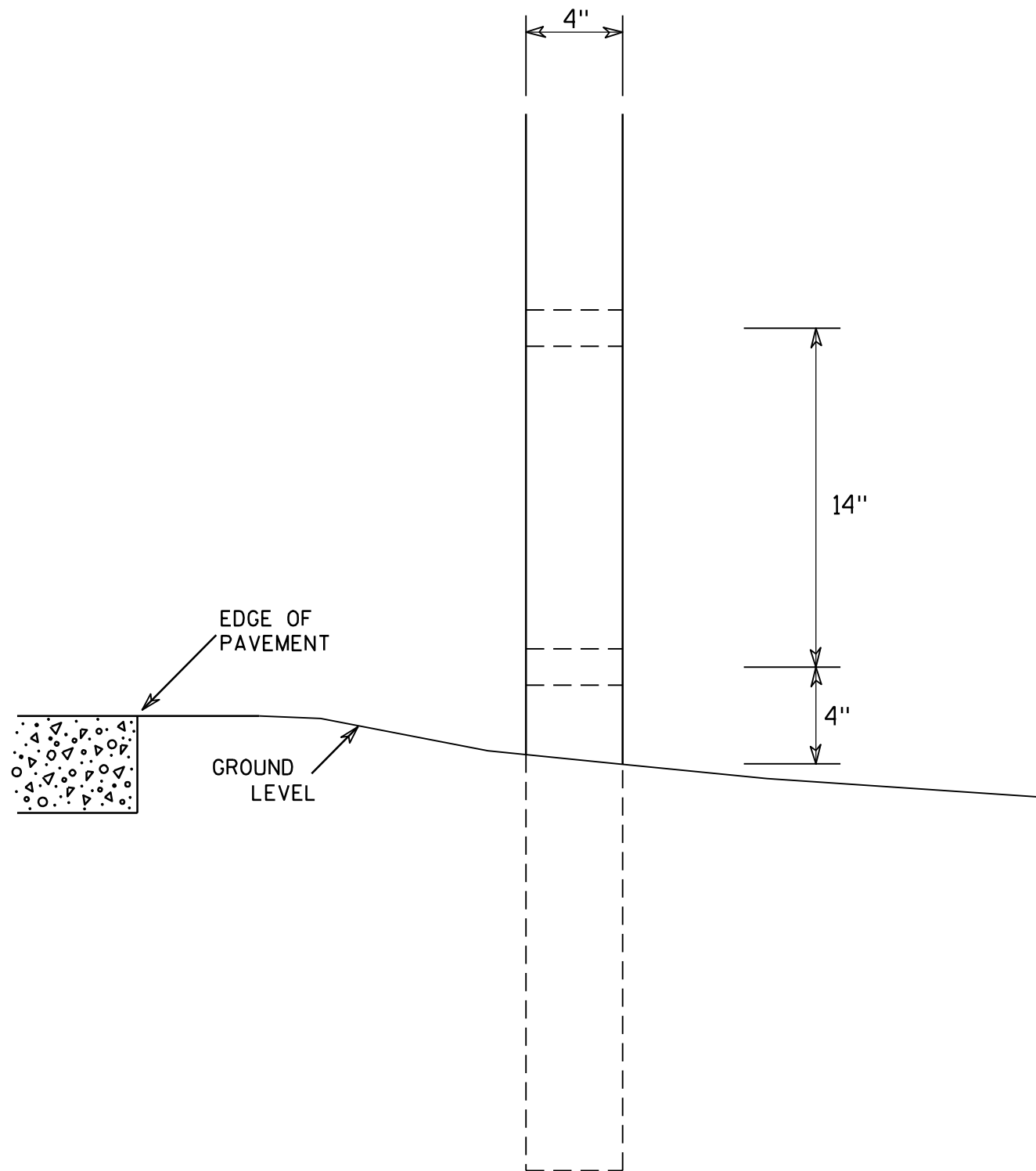
Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

**TUBULAR STEEL  
SIGN POST  
A4-9**

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 2/05/15 PLATE NO. A4-9.9



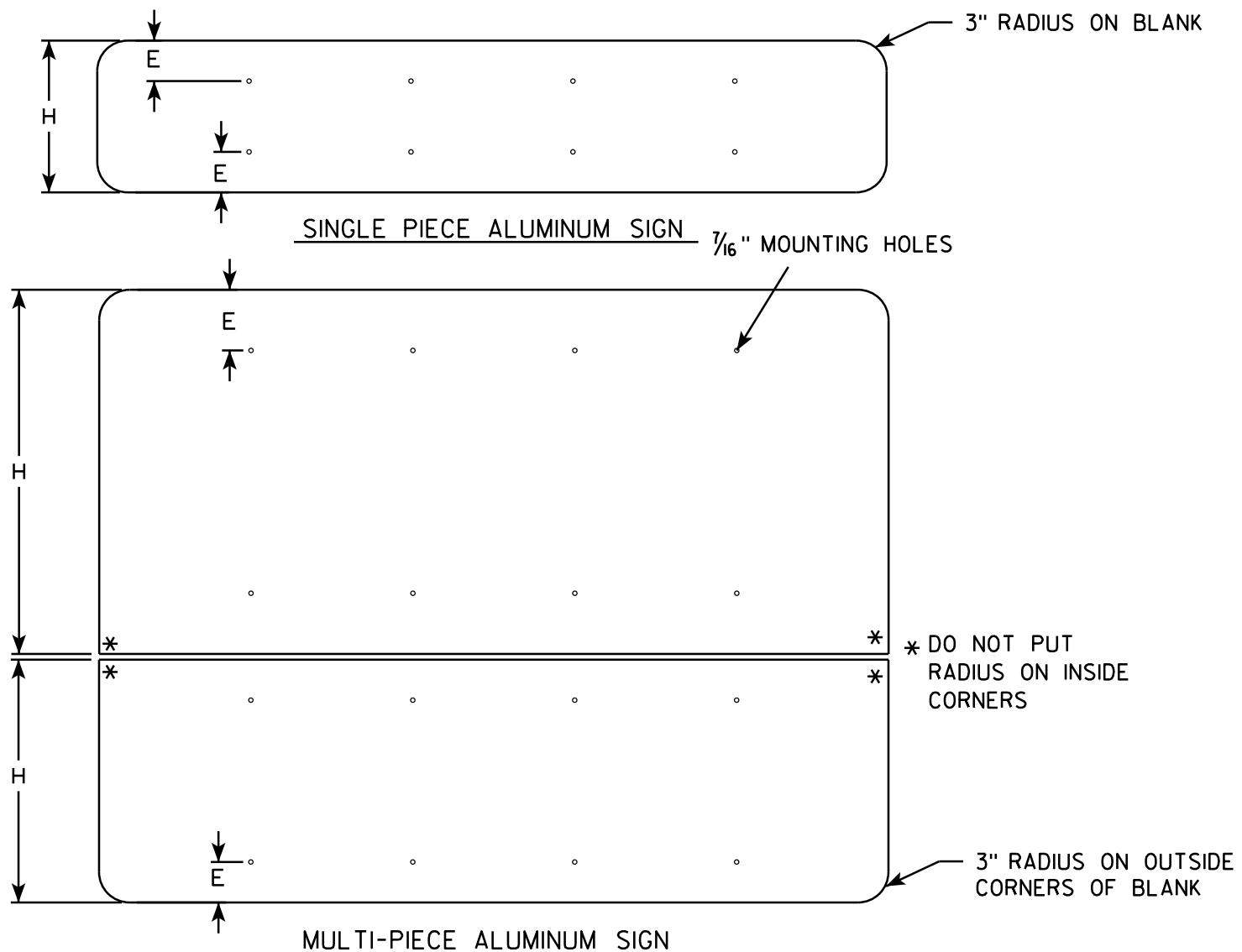
GENERAL NOTES

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

7

7

<b>4 X 6 WOOD POST MODIFICATIONS</b>	
<i>WISCONSIN DEPT OF TRANSPORTATION</i>	
APPROVED	<i>Chester J Spang</i> for State Traffic Engineer
DATE <u>3/27/97</u>	PLATE NO. <u>A4-11.2</u>



## GENERAL NOTES

- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE  $\frac{7}{16}$ " DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

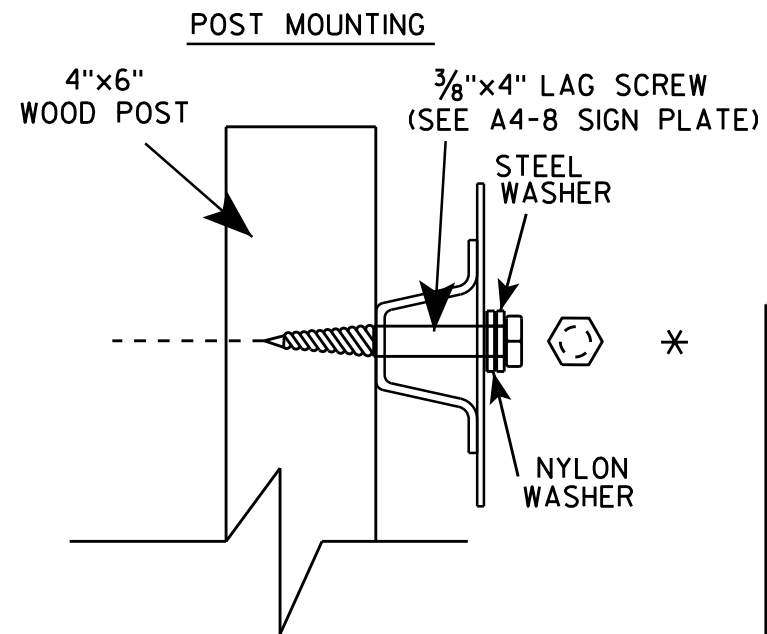
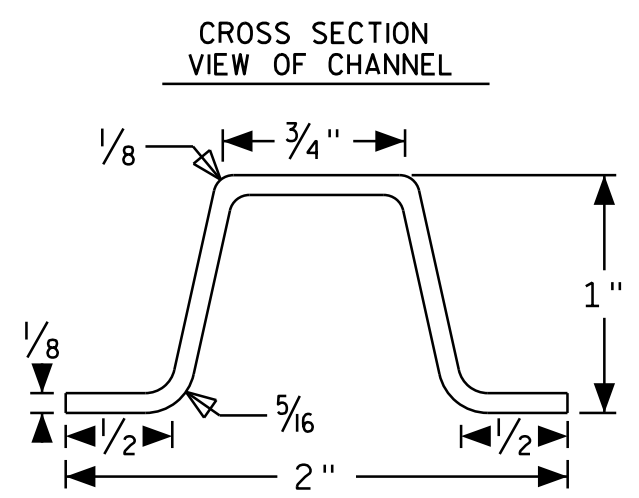
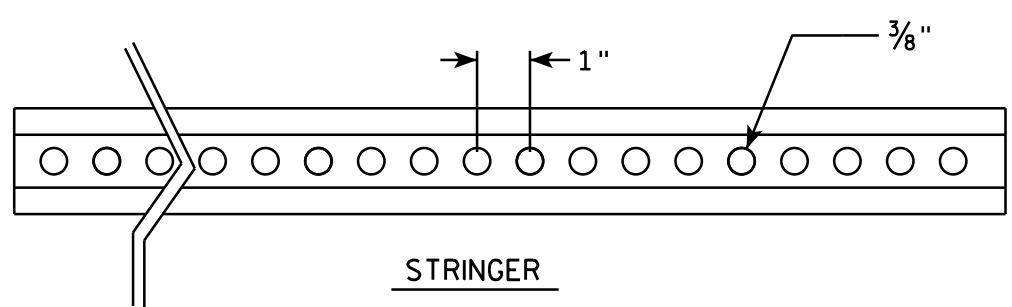
SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES
78"	72"	2	16"	15" 31" 47" 63"
84"	72"	2	17"	16 $\frac{1}{2}$ " 33 $\frac{1}{2}$ " 50 $\frac{1}{2}$ " 67 $\frac{1}{2}$ "
90"	72"	2	18"	18" 36" 54" 72"
96"	90"	2	19"	19 $\frac{1}{2}$ " 38 $\frac{1}{2}$ " 57 $\frac{1}{2}$ " 76 $\frac{1}{2}$ "
102"	90"	2	20"	21" 41" 61" 81"
108"	90"	2	21"	22 $\frac{1}{2}$ " 43 $\frac{1}{2}$ " 64 $\frac{1}{2}$ " 85 $\frac{1}{2}$ "
114"	108"	3	15"	12" 27" 42" 57" 72" 87" 102"
120"	108"	3	16"	12" 28" 44" 60" 76" 92" 108"
126"	108"	3	17"	12" 29" 46" 63" 80" 97" 114"
132"	126"	3	18"	12" 30" 48" 66" 84" 102" 120"
138"	126"	3	19"	12" 31" 50" 69" 88" 107" 126"
144"	126"	3	20"	12" 32" 52" 72" 92" 112" 132"

\* DO NOT PUT RADIUS ON INSIDE CORNERS

3" RADIUS ON OUTSIDE CORNERS OF BLANK

7

7



**SIGN STRINGER MOUNTING REQUIREMENTS**

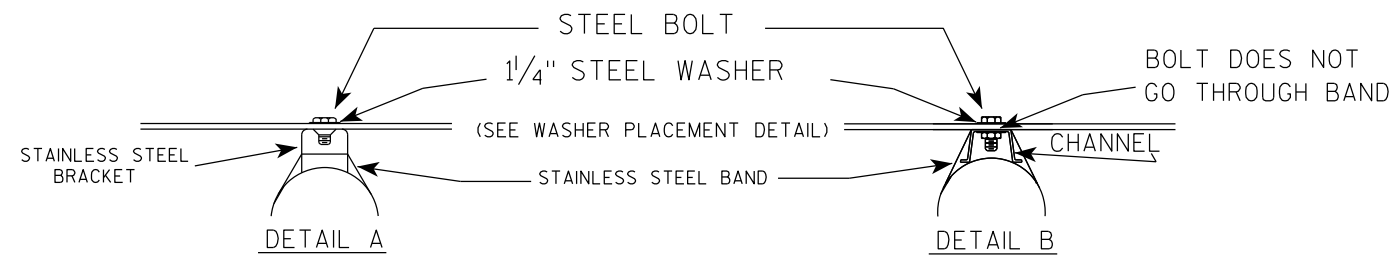
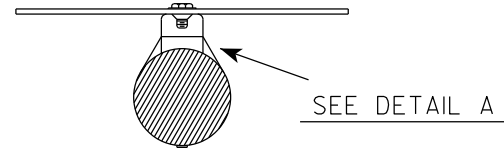
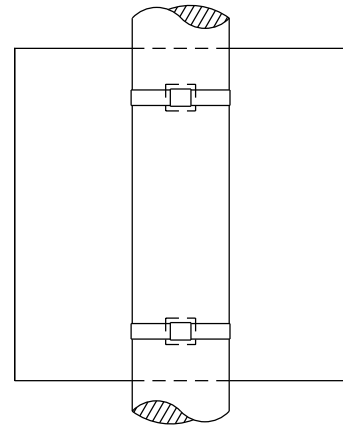
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 4/26/16 PLATE NO. A4-18.1

# BANDING

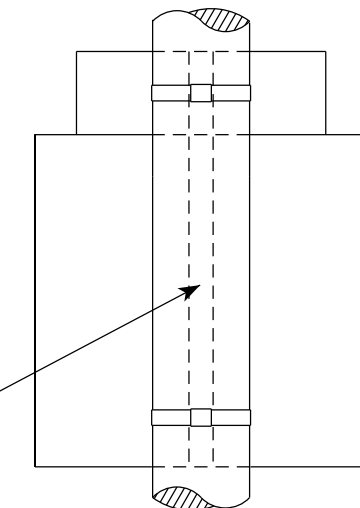
SINGLE SIGN



## GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be 3/4" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
  - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
  - b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

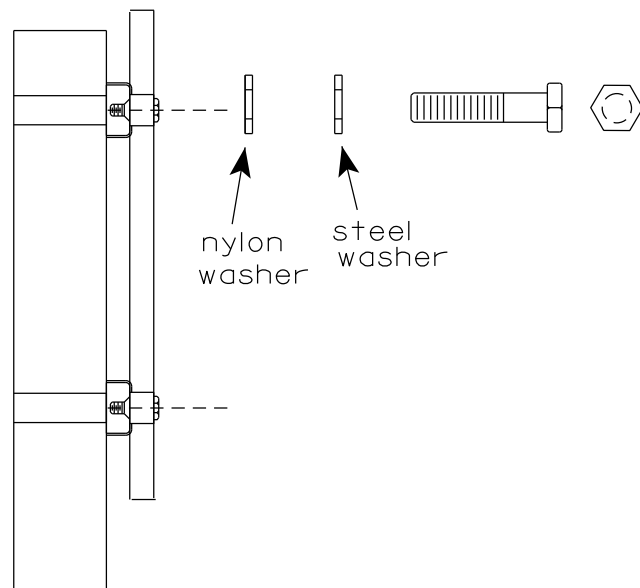
"J" ASSEMBLY



CHANNEL  
SEE TYPICAL PANEL  
INSTALLATION SHEET



WASHER PLACEMENT



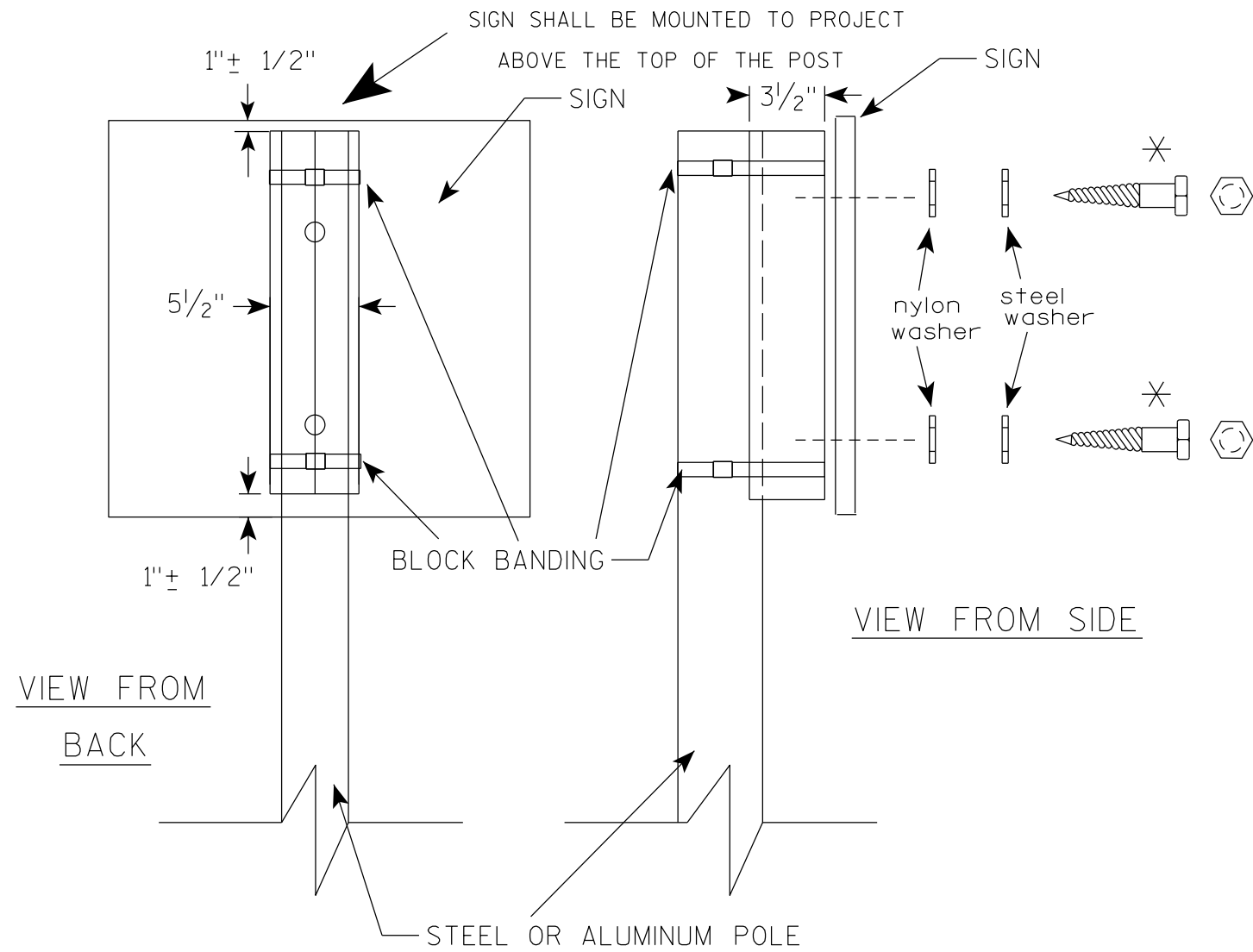
WASHERS (ALL POSTS) -  
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL  
1-1/4" O.D. X 3/8" I.D. X .080 NYLON  
FOR ALL TYPE H SIGNS

STANDARD SIGN  
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 6/10/19 PLATE NO. A5-9.4



VIEW FROM  
BACK

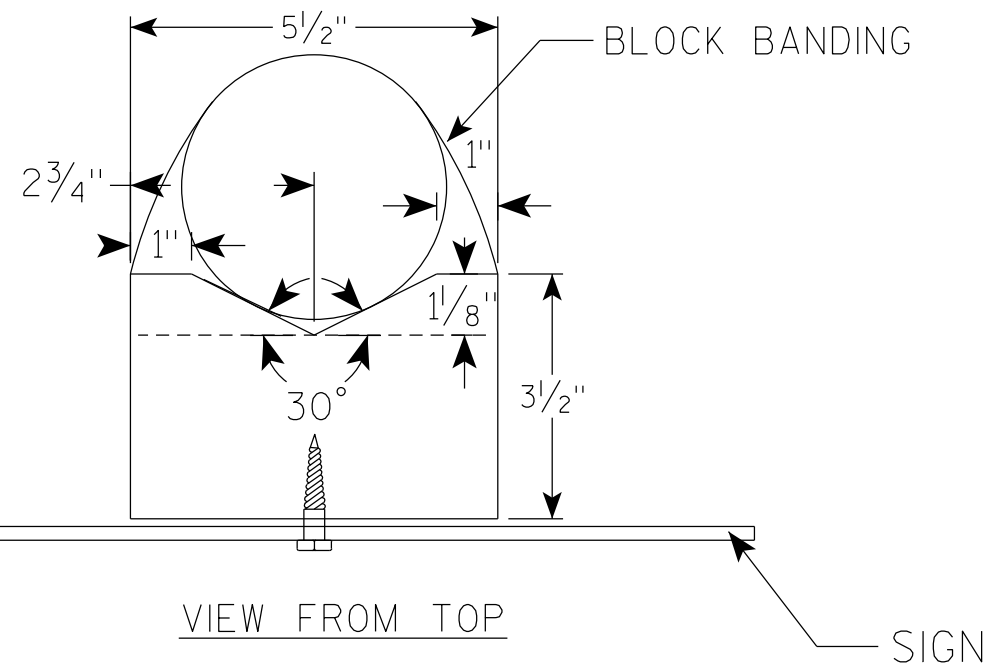
VIEW FROM SIDE

STEEL OR ALUMINUM POLE

### GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WISDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, 3/4" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORMALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
  - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
  - b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1/4" O.D. X 3/8" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1/4" O.D. X 3/8" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✱ LAG BOLTS SHALL BE 3/8" X 2 1/2"



VIEW FROM TOP

SIGN

BLOCK BANDING DETAIL  
( V-BLOCK OPTION )

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 4/19/2022 PLATE NO. A5-10.3

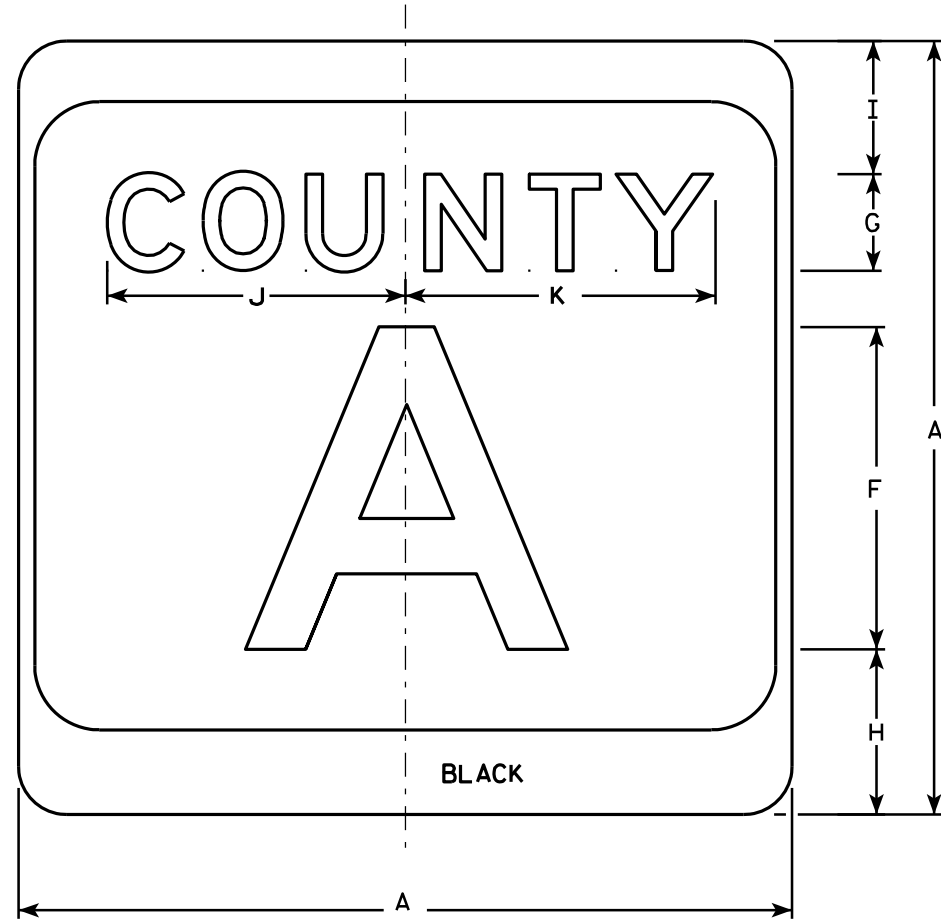
PROJECT NO:

SHEET NO:

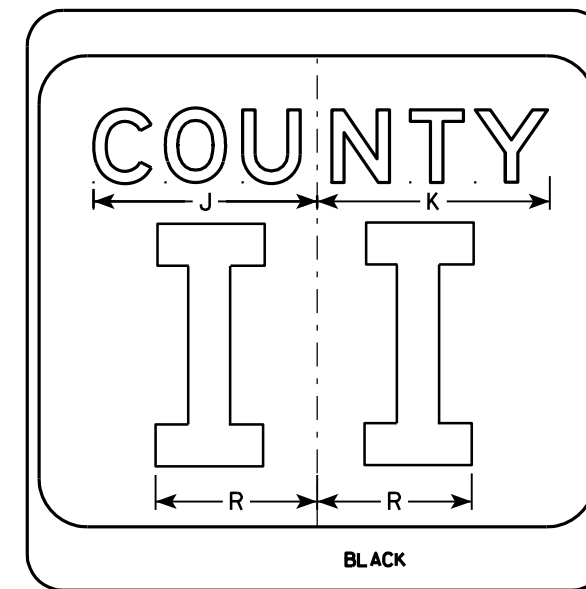
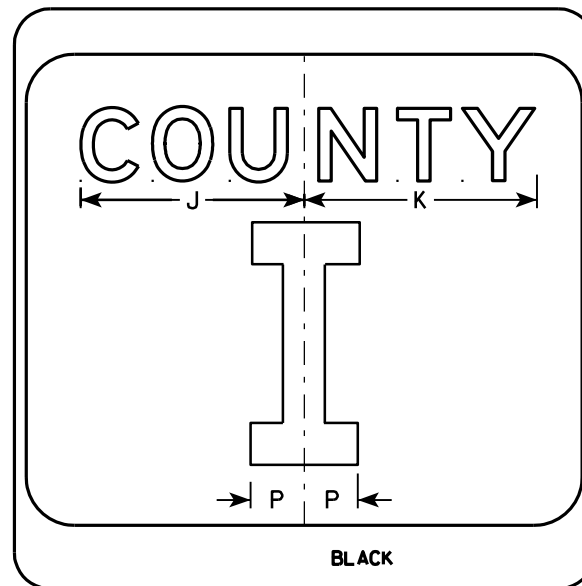
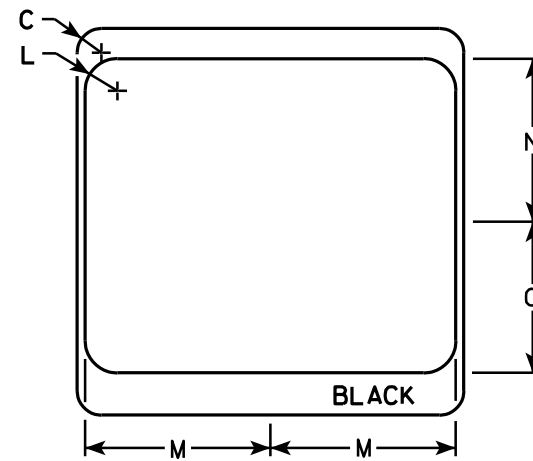
E

**NOTES**

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:  
Background - White & Black - See Note 7  
Message - Black
3. Message Series - see Note 5
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. 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.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs  
Background - Type H Reflective  
Detour or temporary Signs  
Background - Reflective



M1-5A



7

7

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

**CTH MARKER**  
**M1-5A FOR ASSEMBLIES**

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
For State Traffic Engineer

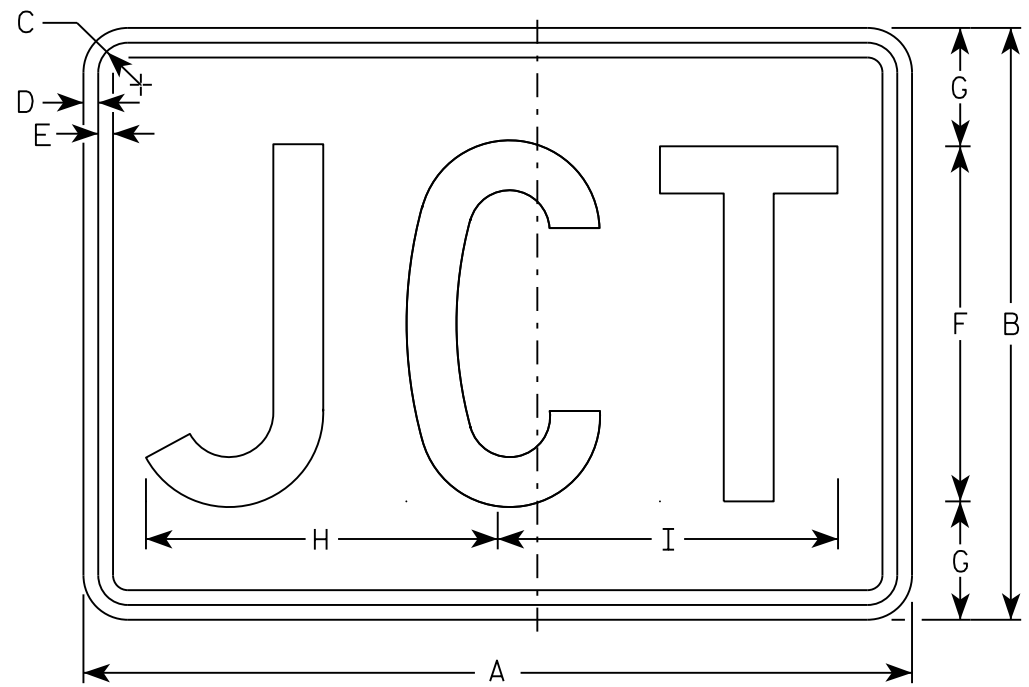
DATE 9/27/11 PLATE NO. MI-5A.8

PROJECT NO: \_\_\_\_\_ HWY: \_\_\_\_\_ COUNTY: \_\_\_\_\_ SHEET NO: **E**

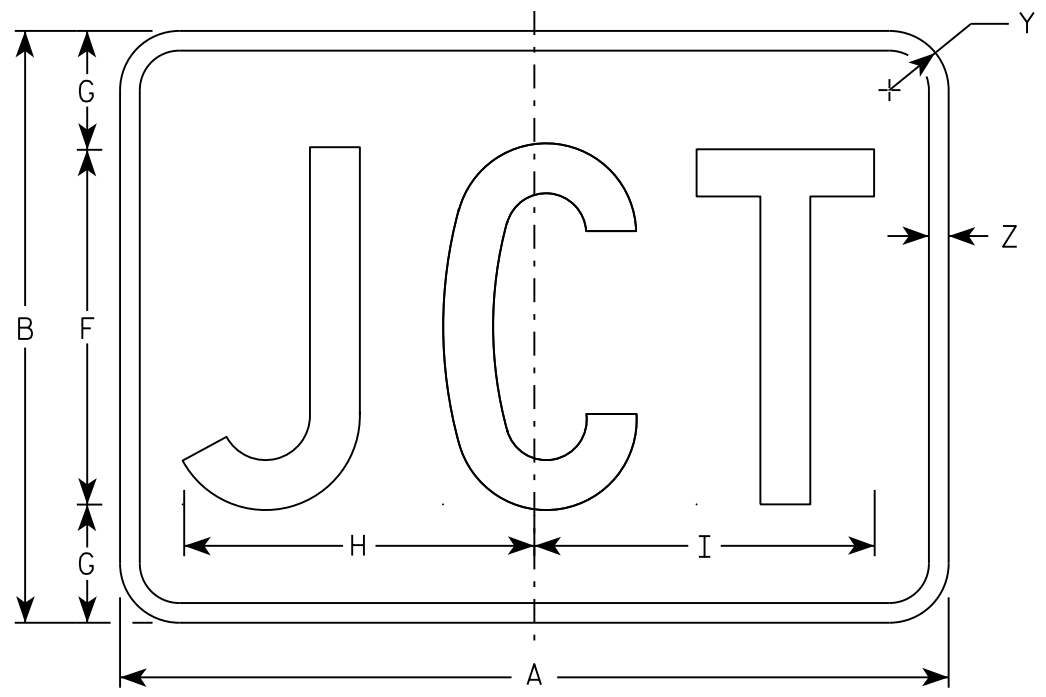


NOTES

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



M2-1  
MM2-1  
MP2-1



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

7

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	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

STANDARD SIGN  
M2-1

WISCONSIN DEPT OF TRANSPORTATION

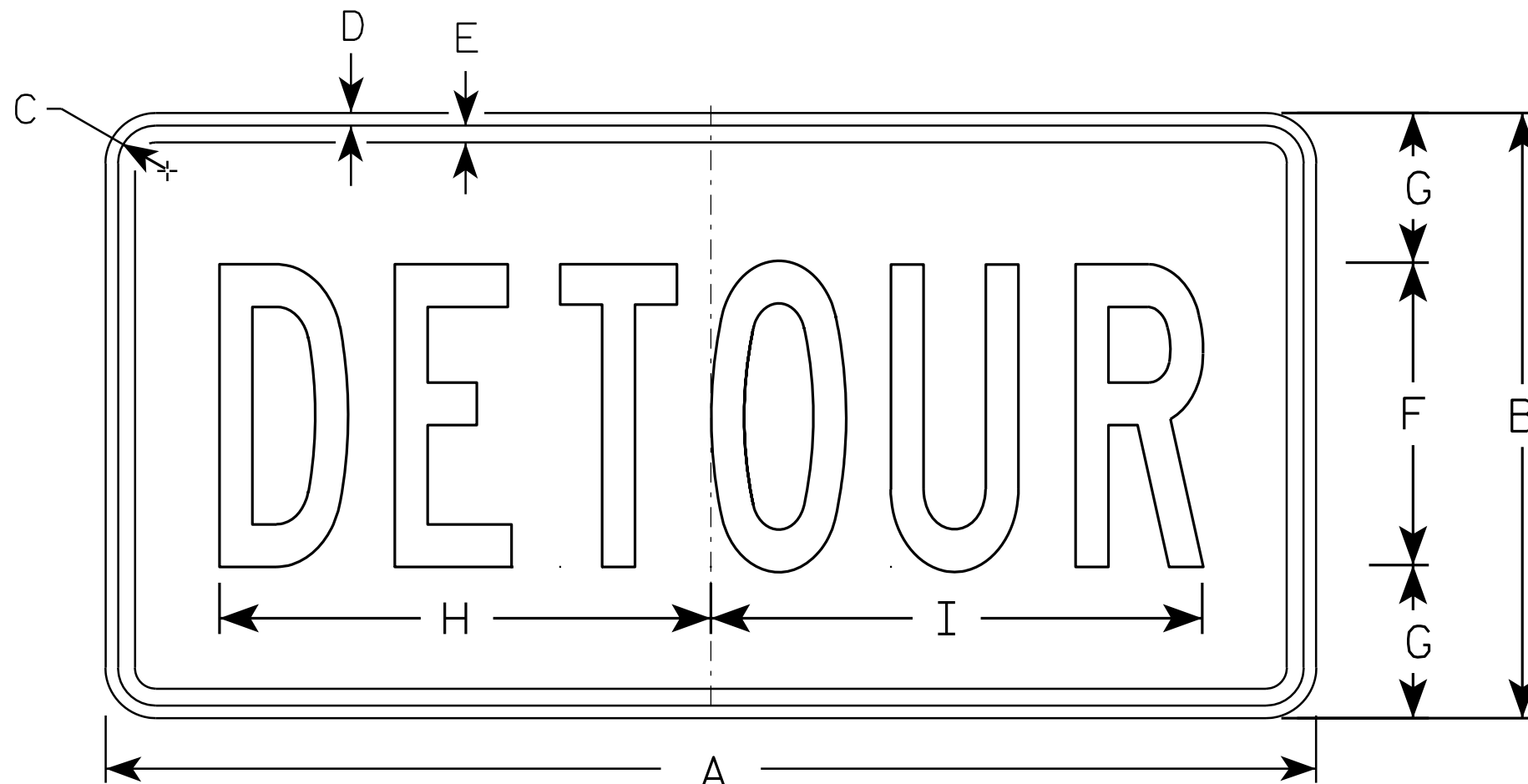
APPROVED *Matthew R. Rauch*  
For State Traffic Engineer

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

PROJECT NO: \_\_\_\_\_ HWY: \_\_\_\_\_ COUNTY: \_\_\_\_\_ SHEET NO: **E**

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:  
Background - Orange  
Message - Black
3. Message Series - B
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.



M4-8

7

7

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	12	1 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

**STANDARD SIGN**  
**M4-8**

WISCONSIN DEPT OF TRANSPORTATION

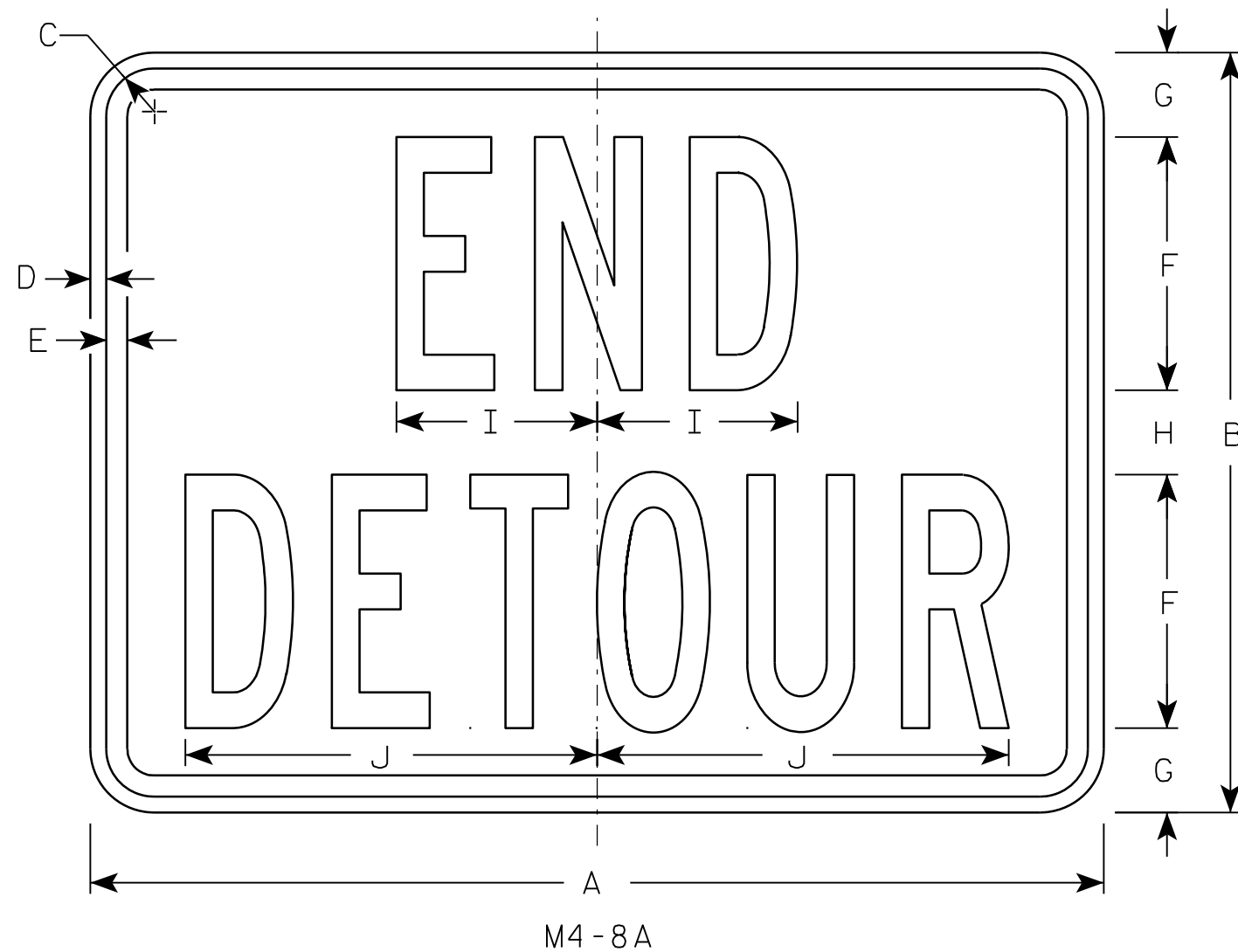
APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

PROJECT NO: \_\_\_\_\_ HWY: \_\_\_\_\_ COUNTY: \_\_\_\_\_ SHEET NO: **E**

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:  
Background - Orange  
Message - Black
3. Message Series - B
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.



7

7

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	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5																											

STANDARD SIGN  
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

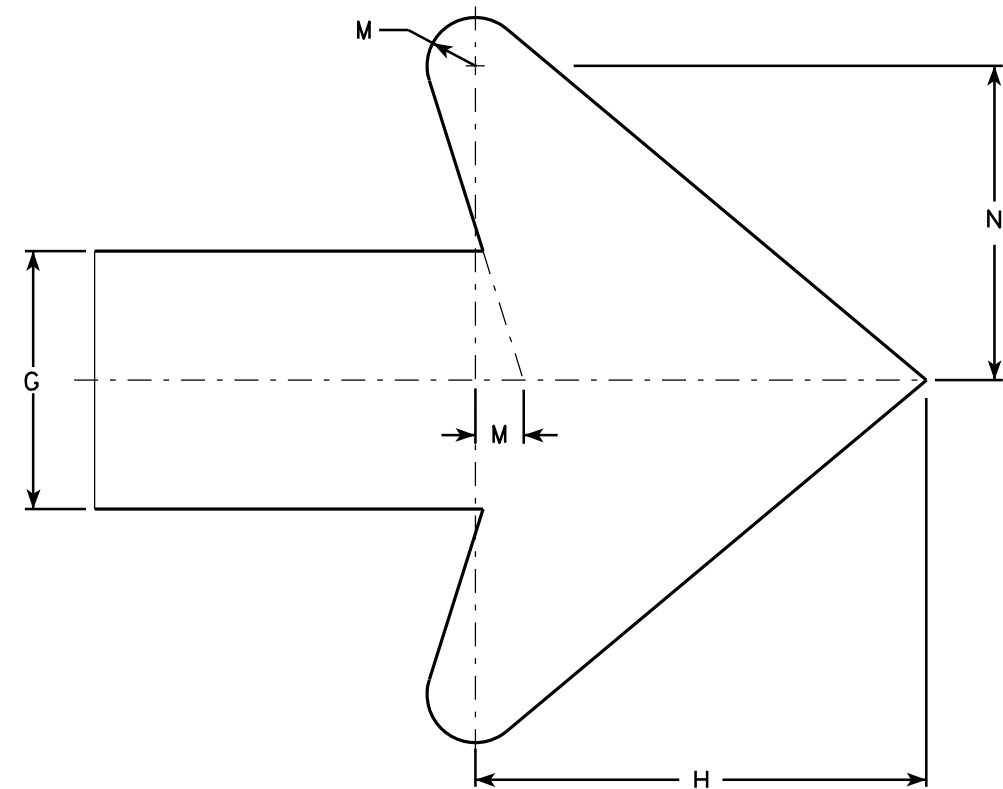
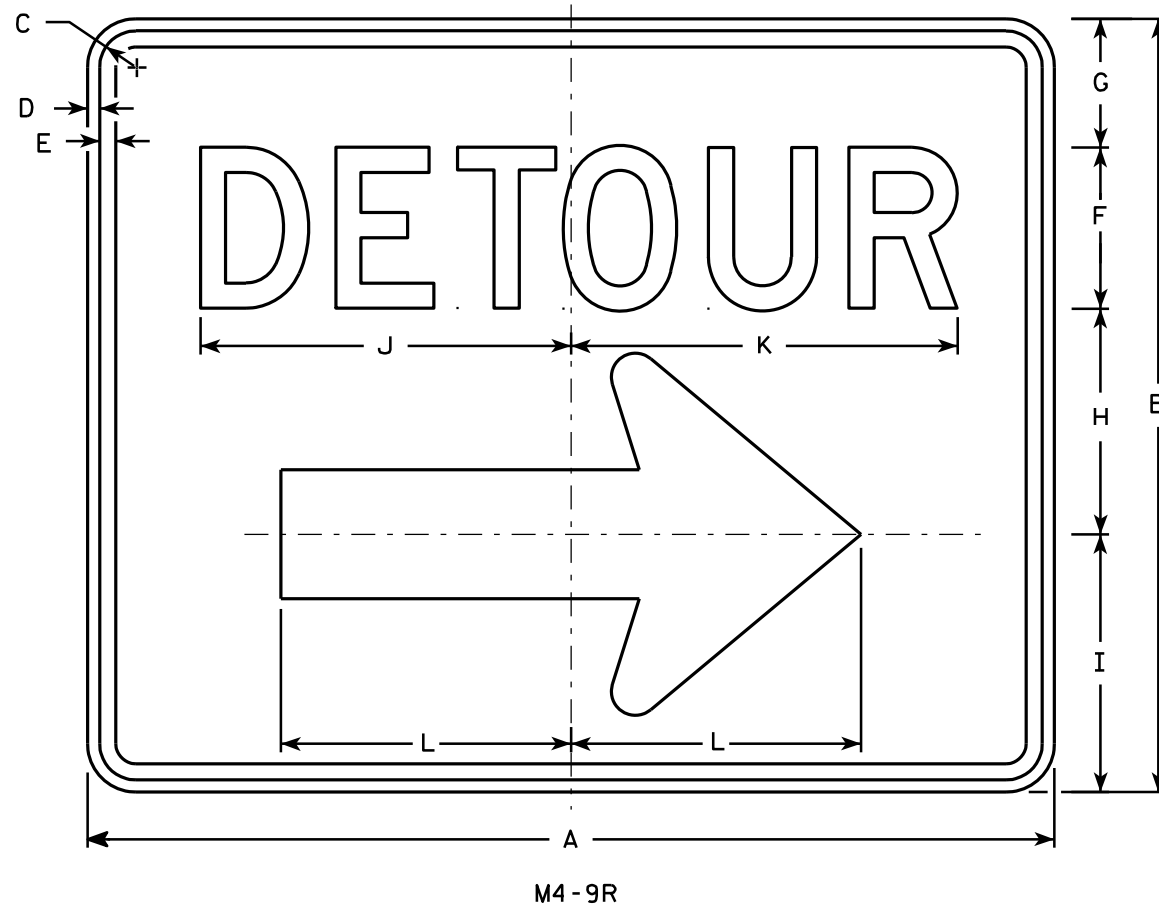
APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

PROJECT NO: \_\_\_\_\_ HWY: \_\_\_\_\_ COUNTY: \_\_\_\_\_ SHEET NO: **E**

**NOTES**

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:  
Background - Orange  
Message - Black
3. Message Series - D
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. M4-9L is the same as M4-9R except the arrow is reversed.



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	30	24	1 1/8	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
3	30	24	1 1/8	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
4	48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0
5	48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0

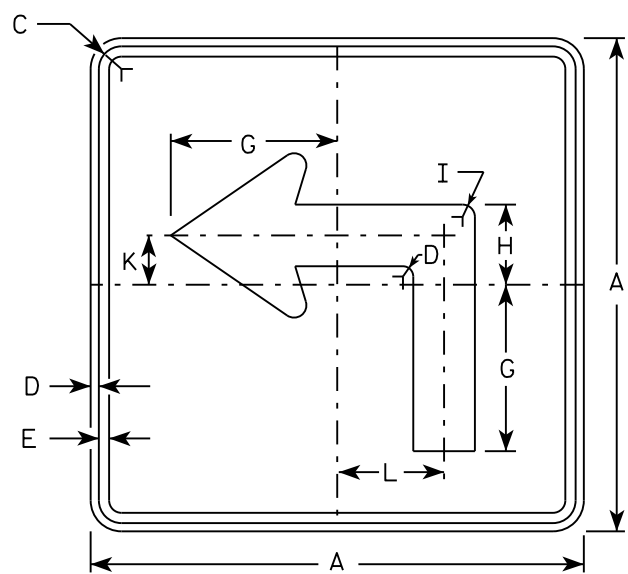
STANDARD SIGN  
M4-9 R & L

WISCONSIN DEPT OF TRANSPORTATION

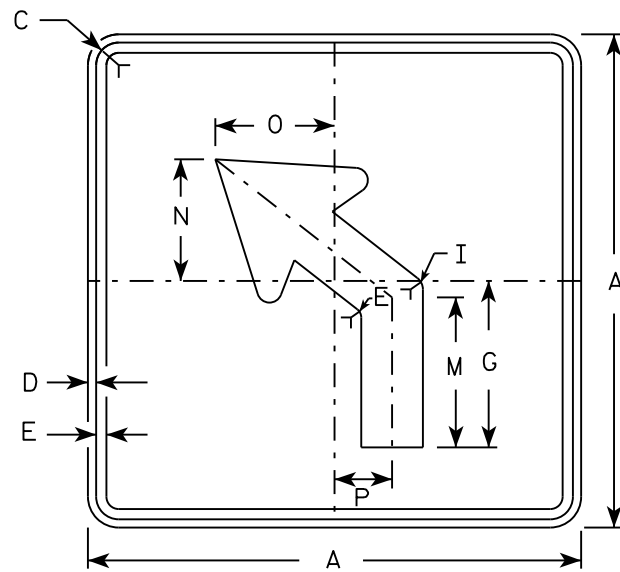
APPROVED *Matthew R. Rauch*  
For State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-9R.4

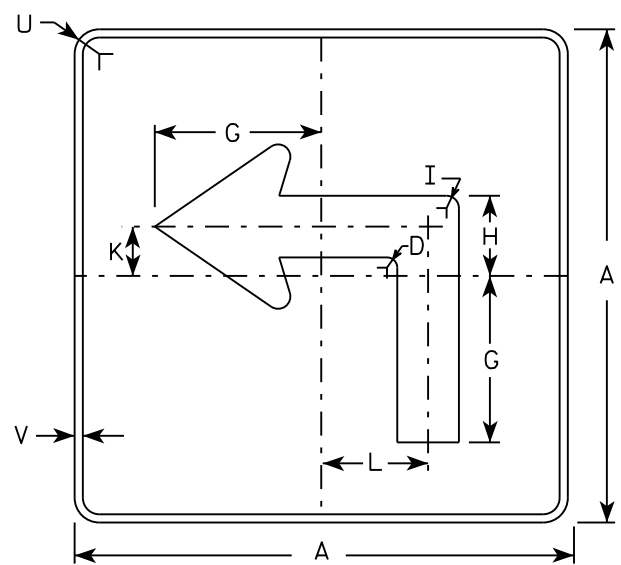
PROJECT NO: \_\_\_\_\_ HWY: \_\_\_\_\_ COUNTY: \_\_\_\_\_ SHEET NO: **E**



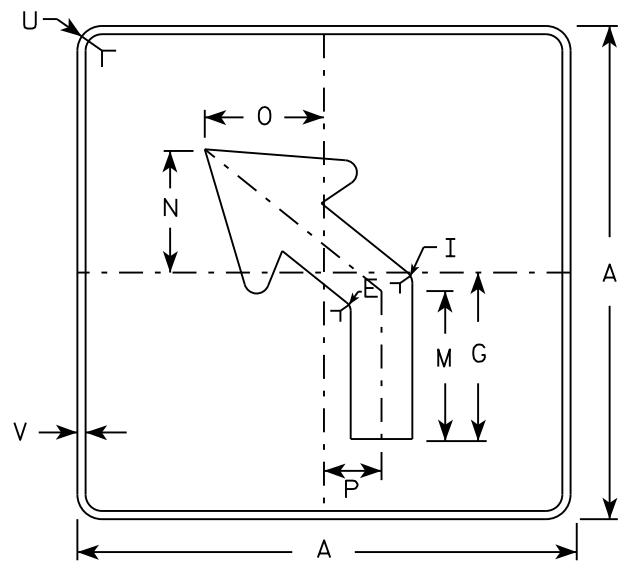
M5-1L  
MM5-1L  
M05-1L  
MP5-1L



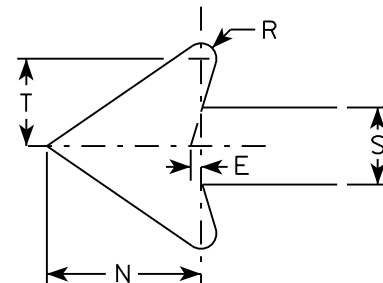
M5-2L  
MM5-2L  
M05-2L  
MP5-2L



MB5-1L  
MK5-1L  
MN5-1L  
MR5-1L



MB5-2L  
MK5-2L  
MN5-2L  
MR5-2L



NOTES

- Signs are Type II - Type H reflective except as shown
- Color:
  - Background - See note 4
  - Message - See note 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.
- M5-1 and M5-2 Background - White  
Message - Black
  - MB5-1 and MB5-2 Background - Blue  
Message - White
  - MK5-1 and MK5-2 Background - Green  
Message - White
  - MM5-1 and MM5-2 Background - White  
Message - Green
  - MN5-1 and MN5-2 Background - Brown  
Message - White
  - M05-1 and M05-2 Background - Orange - Type F Reflective  
Message - Black
  - MP5-1 and MP5-2 Background - White - Type H Reflective  
Message - Blue
  - MR5-1 and MR5-2 Background - Brown  
Message - Yellow
- M5-1R same as M5-1L except arrow points right.
- M5-2R same as M5-2L except arrow tilts right.

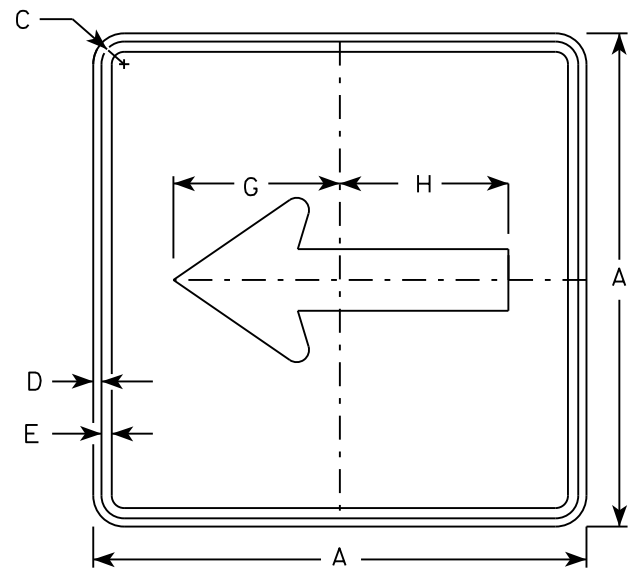
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN  
M5-1 & M5-2

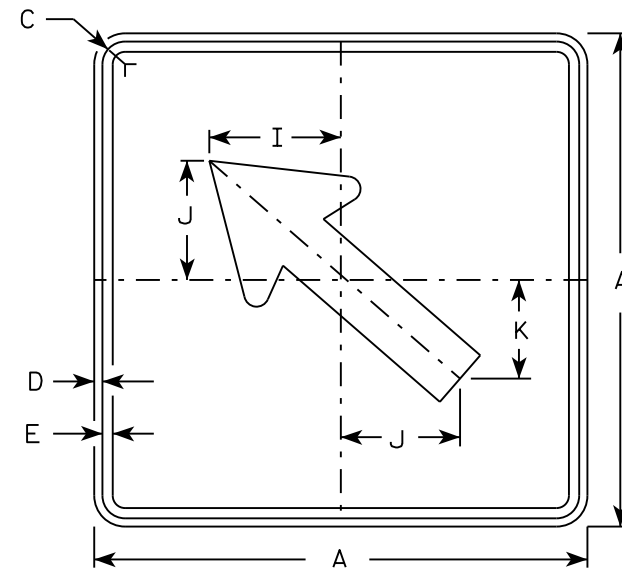
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

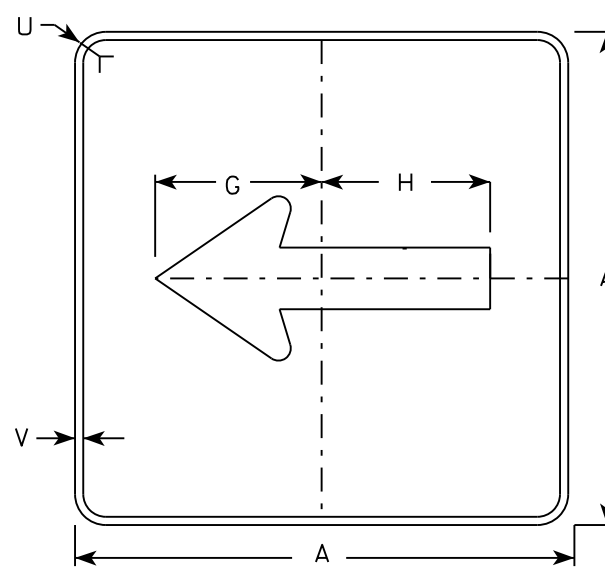
DATE 10/15/15 PLATE NO. M5-1.13



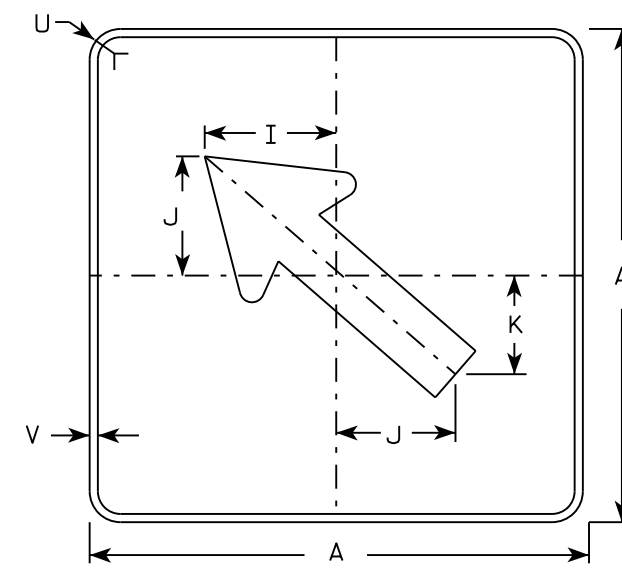
M6-1  
MM6-1  
M06-1  
MP6-1



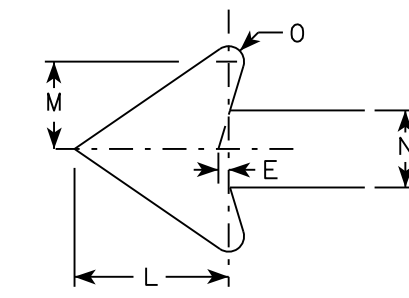
M6-2  
MM6-2  
M06-2  
MP6-2



MB6-1  
MK6-1  
MN6-1  
MR6-1



MB6-2  
MK6-2  
MN6-2  
MR6-2



NOTES

- Signs are Type II - Type H except as Shown
- Color:  
Background - See note 4  
Message - See note 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.
- M6-1 and M6-2 Background - White  
Message - Black  
MB6-1 and MB6-2 Background - Blue  
Message - White  
MK6-1 and MK6-2 Background - Green  
Message - White  
MM6-1 and MM6-2 Background - White  
Message - Green  
MN6-1 and MN6-2 Background - Brown  
Message - White  
M06-1 and M06-2 Background - Orange - Type F Reflective  
Message - Black  
MP6-1 and MP6-2 Background - White  
Message - Blue  
MR6-1 and MR6-2 Background - Brown  
Message - Yellow

7

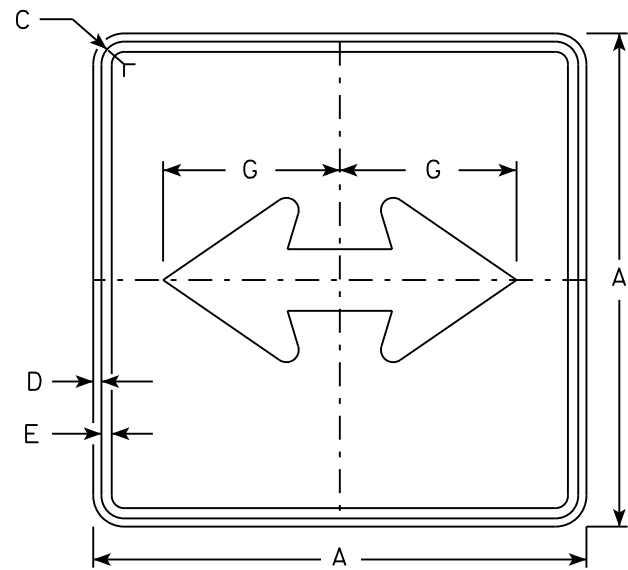
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

STANDARD SIGN  
M6-1 & M6-2  
SERIES

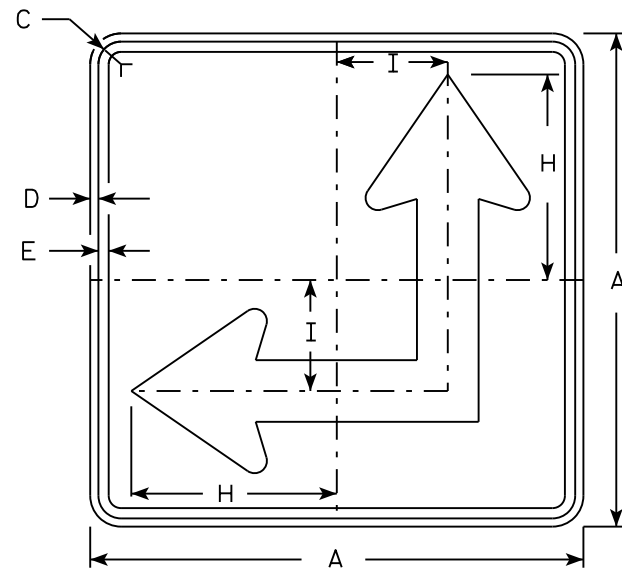
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

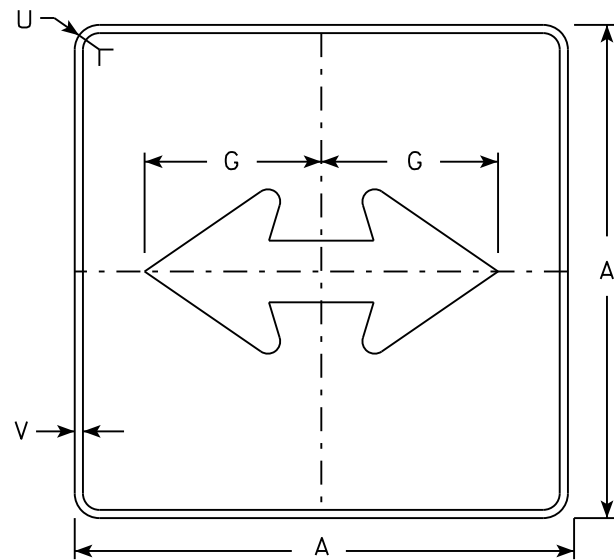
DATE 10/15/15 PLATE NO. M6-1.15



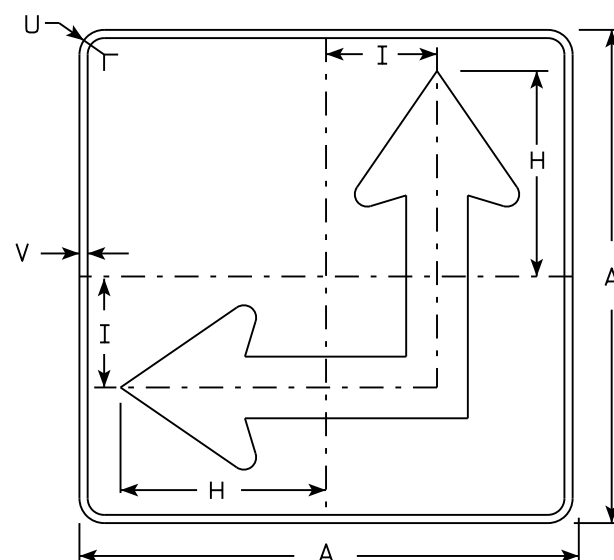
M6-4  
MM6-4  
M06-4  
MP6-4



M6-6  
MM6-6  
M06-6  
MP6-6



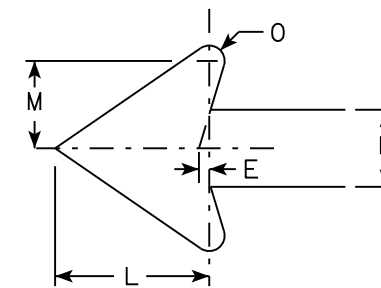
MB6-4  
MK6-4  
MN6-4  
MR6-4



MB6-6  
MK6-6  
MN6-6  
MR6-6

NOTES

- Signs are Type II - Type H except as Shown
- Color:  
Background - See Note 4  
Message - See Note 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.
- M6-4 and M6-6 Background - White  
Message - Black  
MB6-4 and MB6-6 Background - Blue  
Message - White  
MK6-4 and MK6-6 Background - Green  
Message - White  
MM6-4 and MM6-6 Background - White  
Message - Green  
MN6-4 and MN6-6 Background - Brown  
Message - White  
M06-4 and M06-6 Background - Orange - Type F Reflective  
Message - Black  
MP6-4 and MP6-6 Background - White  
Message - Blue  
MR6-4 and MR6-6 Background - Brown  
Message - Yellow
- M6-6R same as M6-6L except arrow points ahead and right.



7

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	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

STANDARD SIGN  
M6-4 & M6-6  
SERIES

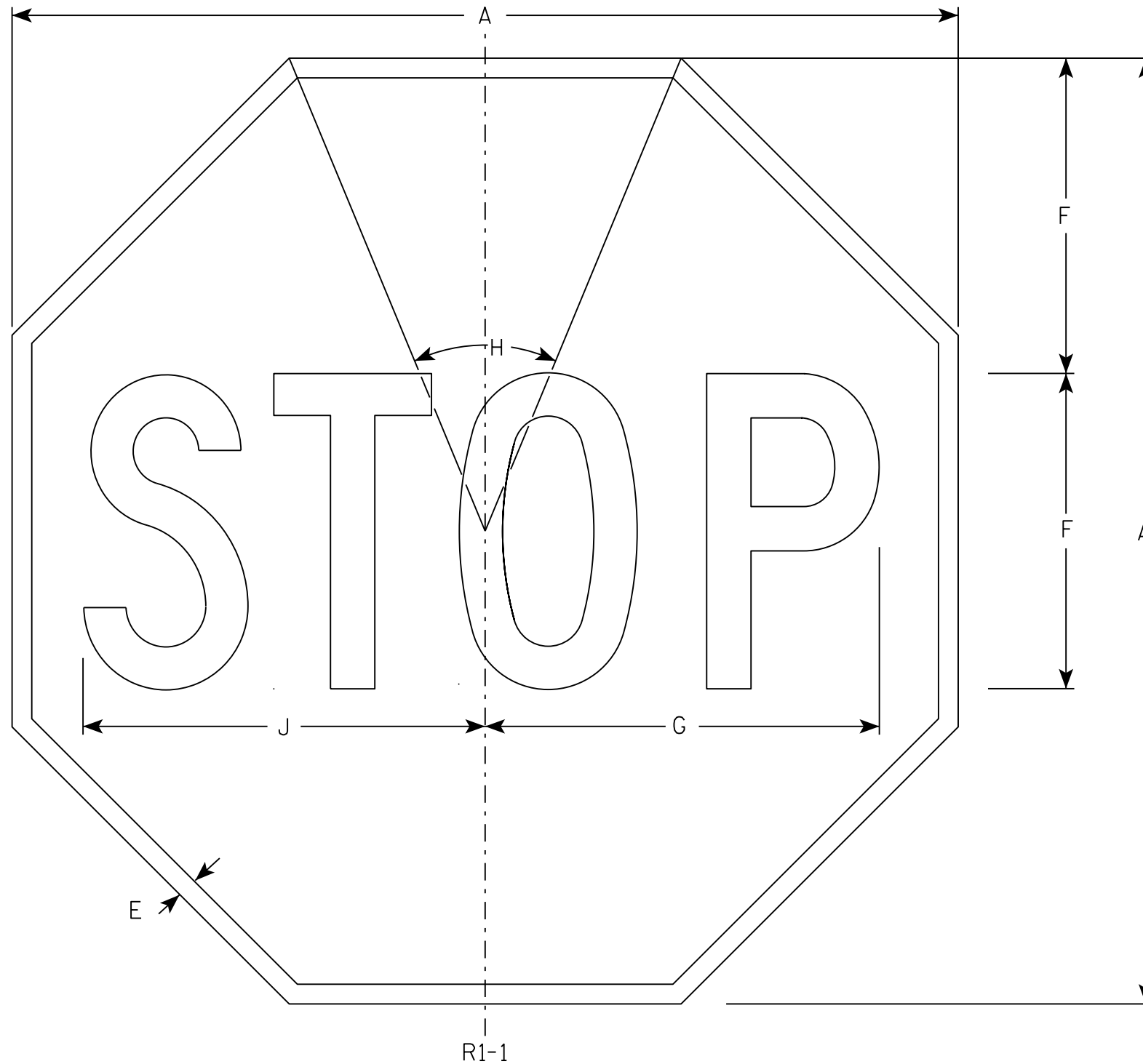
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M6-4.10

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

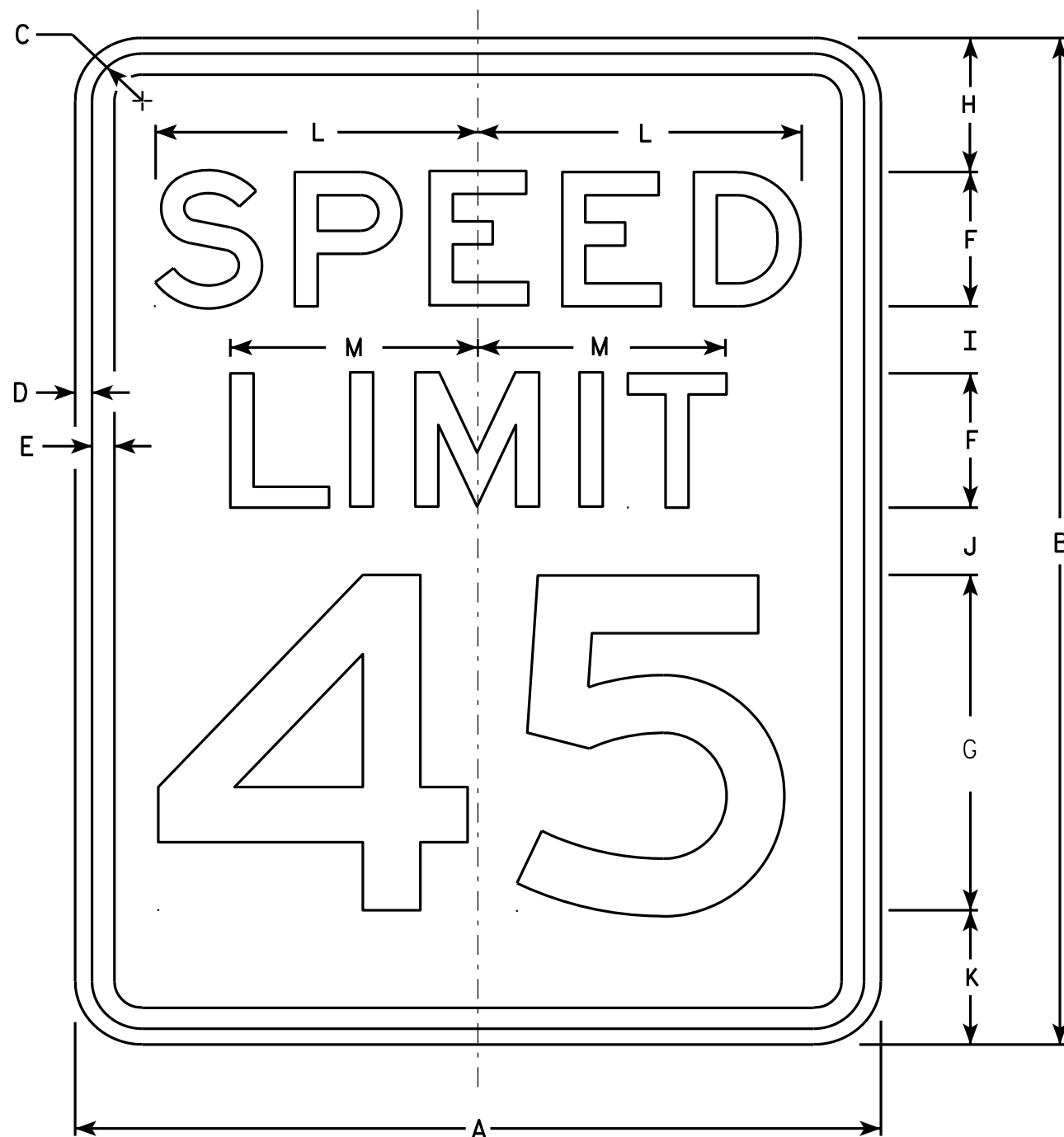
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

PROJECT NO: \_\_\_\_\_ HWY: \_\_\_\_\_ COUNTY: \_\_\_\_\_ SHEET NO: **E**





R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:  
Background - White  
Message - Black
3. Message Series - E
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. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

7

7

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	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

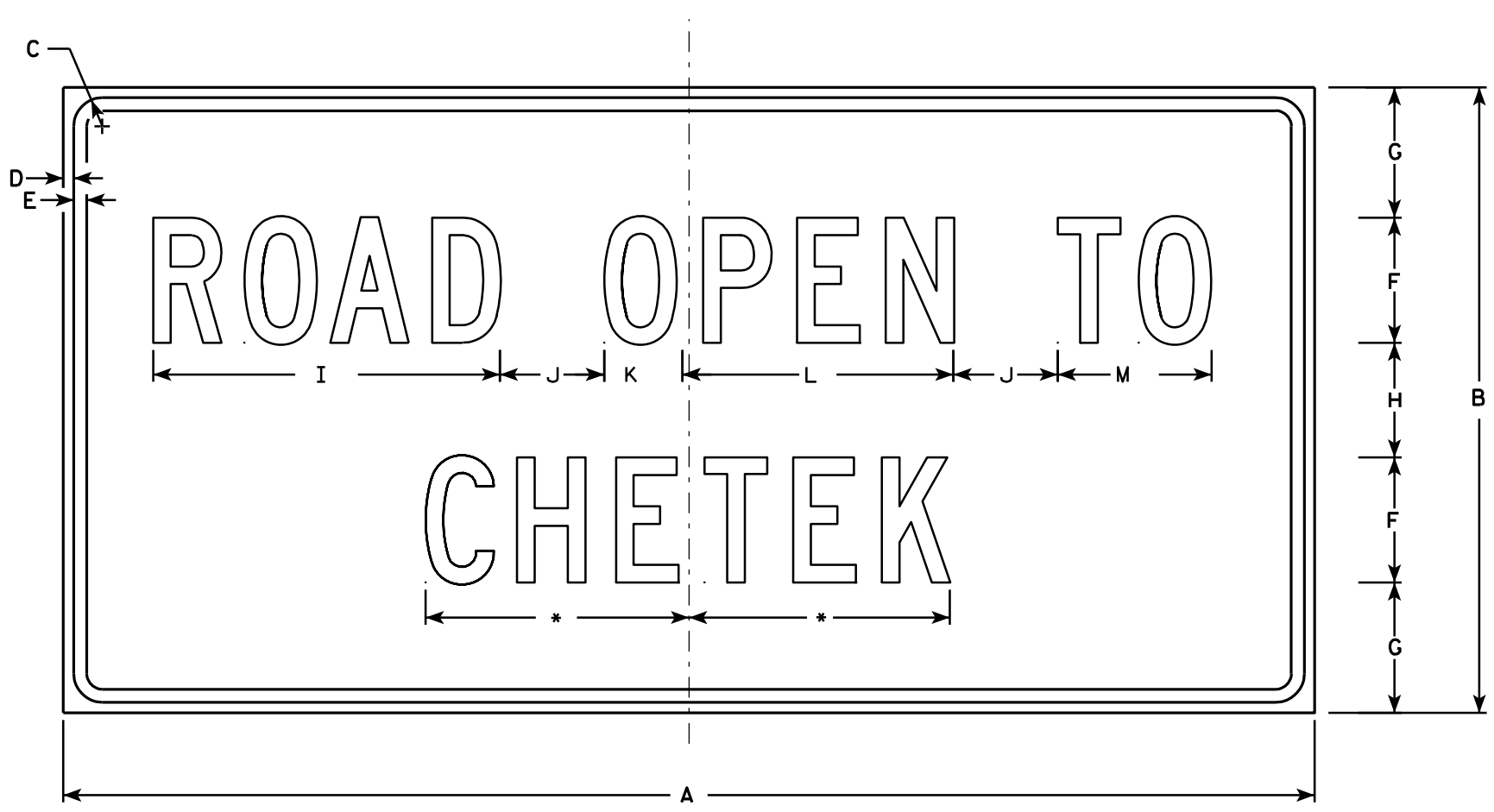
STANDARD SIGN  
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
For State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: \_\_\_\_\_ HWY: \_\_\_\_\_ COUNTY: \_\_\_\_\_ SHEET NO: \_\_\_\_\_ E



R10-61

\*See note 5

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:  
Background - White  
Message - Black
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. Substitute appropriate message and optically balance.

7

7

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	36	24	1 3/8	1/2	5/8	4	5 1/2	5	10 3/4	2	2 1/8	8 3/8	4 5/8														6.0
2S	60	30	1 3/8	1/2	5/8	6	6 1/4	5 1/2	16 5/8	5	3 3/4	13	7 3/8														12.5
2M	60	30	1 3/8	1/2	5/8	6	6 1/4	5 1/2	16 5/8	5	3 3/4	13	7 3/8														12.5
3																											
4																											
5																											

**STANDARD SIGN**  
R10-61

WISCONSIN DEPT OF TRANSPORTATION

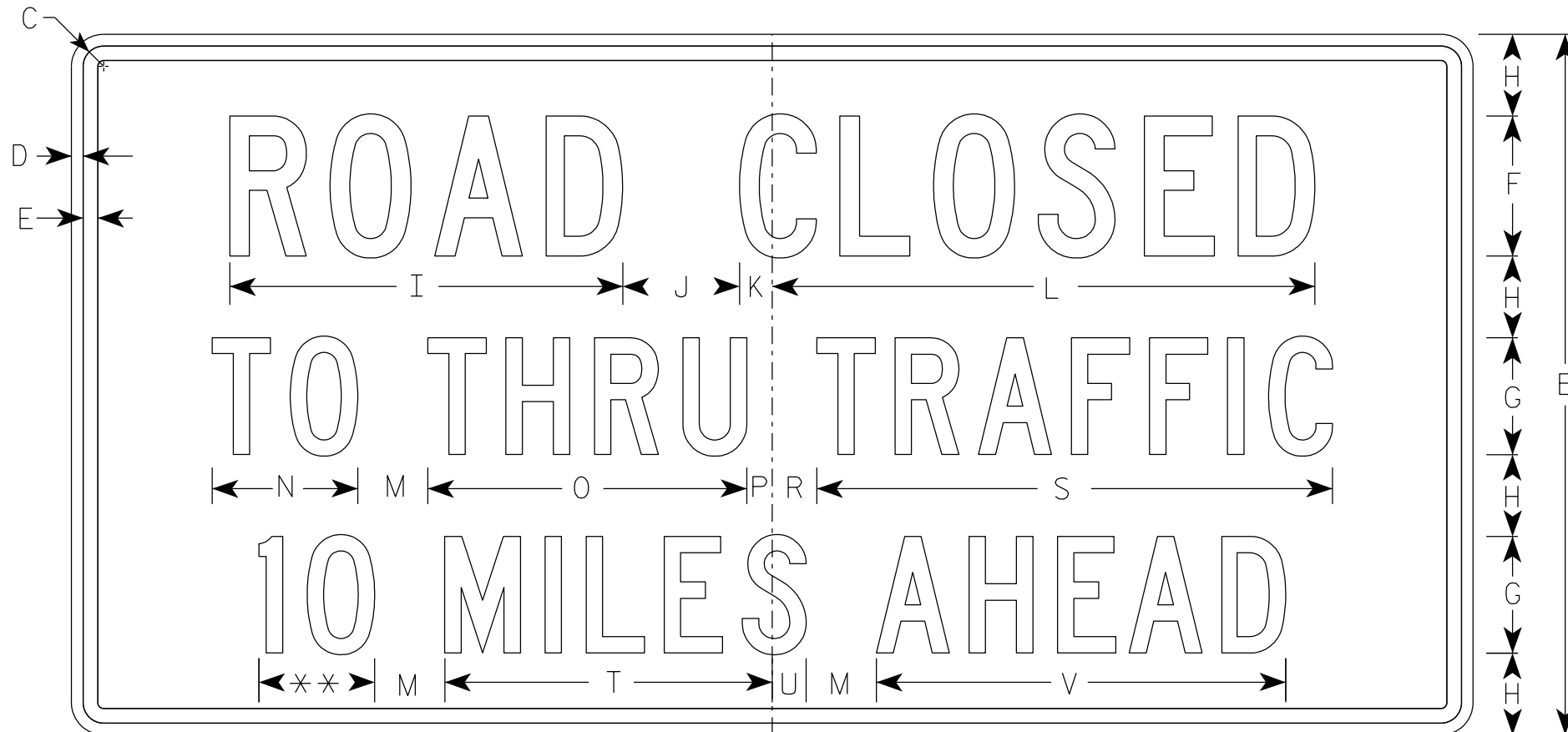
APPROVED *Matthew R. Rauch*  
For State Traffic Engineer

DATE 4/4/11 PLATE NO. R10-61.5

PROJECT NO: \_\_\_\_\_ HWY: \_\_\_\_\_ COUNTY: \_\_\_\_\_ SHEET NO: \_\_\_\_\_ E

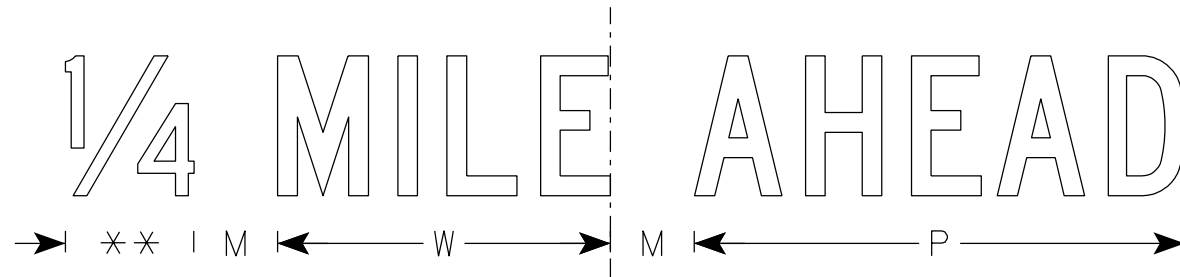
NOTES

1. Sign is Type II - Type H Reflective
2. Color:  
Background - White  
Message - Black
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. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.



R11-3

\*\* See Note 5



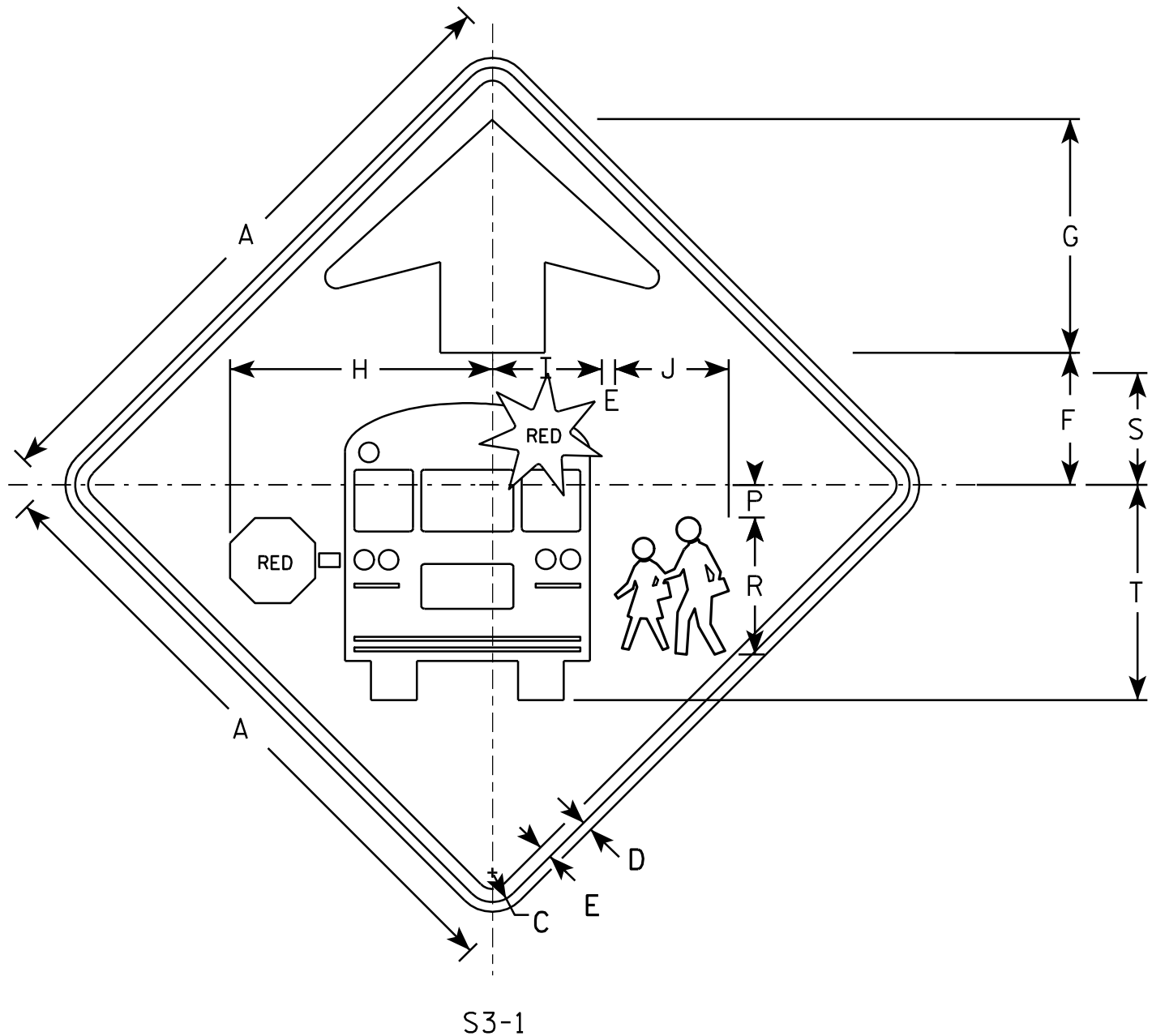
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	
1	36	18	1 1/4	3/8	3/8	4	3	2	11 1/4	3	1 1/8	15 3/8	2	3 3/4	8 1/4	5/8		1 3/8	13 1/4	8 3/8	7/8	10 1/2	7 1/8				4.5	
2S	60	30	1 3/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5	
2M	60	30	1 3/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5	
3																												
4																												
5																												

STANDARD SIGN  
R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

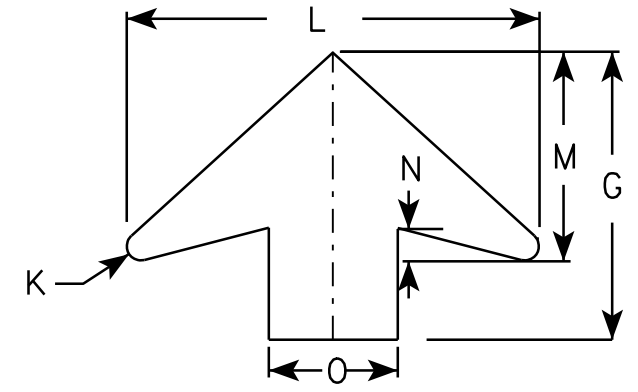
DATE 6/14/2021 PLATE NO. R11-3.9



S3-1

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-GREEN  
 Message - BLACK except as noted  
 Circles except PEDS- RED BACKGROUND
3. 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.



ARROW DETAIL

7

7

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	12 1/2	5 1/4	5 1/2	1/2	16	8	1 1/4	5	1 1/2		6 5/8	5 3/8	10 3/8							6.25
2	36		1 5/8	5/8	3/4	7 1/2	13 1/2	15 1/8	6 1/4	6 1/2	5/8	19 1/4	9 3/4	1 5/8	6	1 7/8		7 1/8	6 3/8	12 3/8							9.0
3	48		2 1/4	3/4	1	10	17 7/8	20 1/8	8 3/8	8 3/4	7/8	25 5/8	13	2	8	2 1/2		10 1/2	8 1/2	16 1/2							16.0
4	48		2 1/4	3/4	1	10	17 7/8	20 1/8	8 3/8	8 3/4	7/8	25 5/8	13	2	8	2 1/2		10 1/2	8 1/2	16 1/2							16.0
5																											

**STANDARD SIGN**  
S3-1

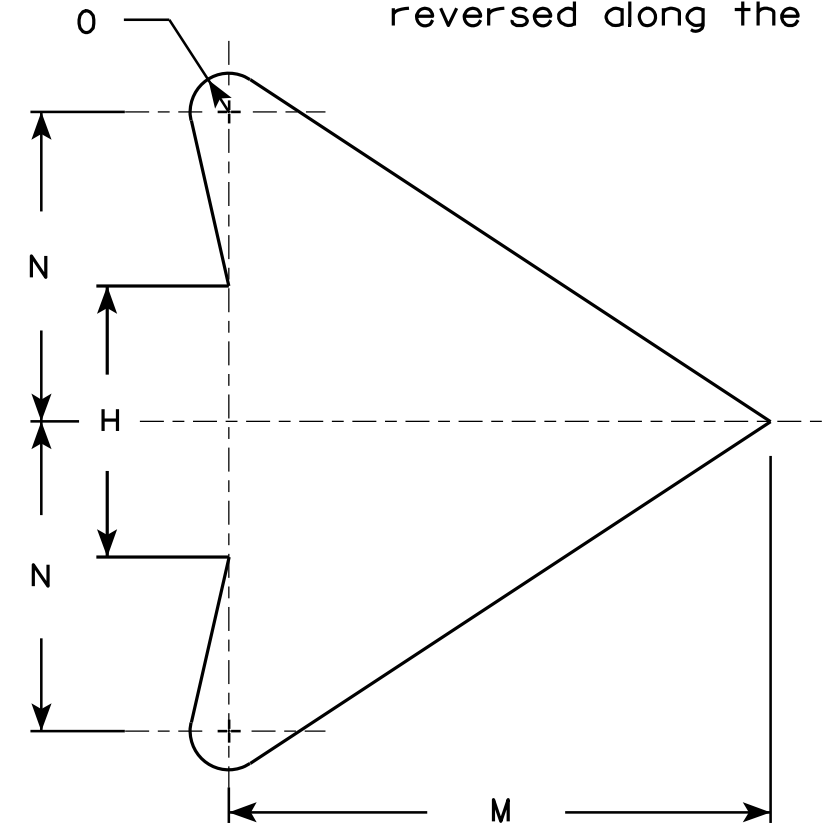
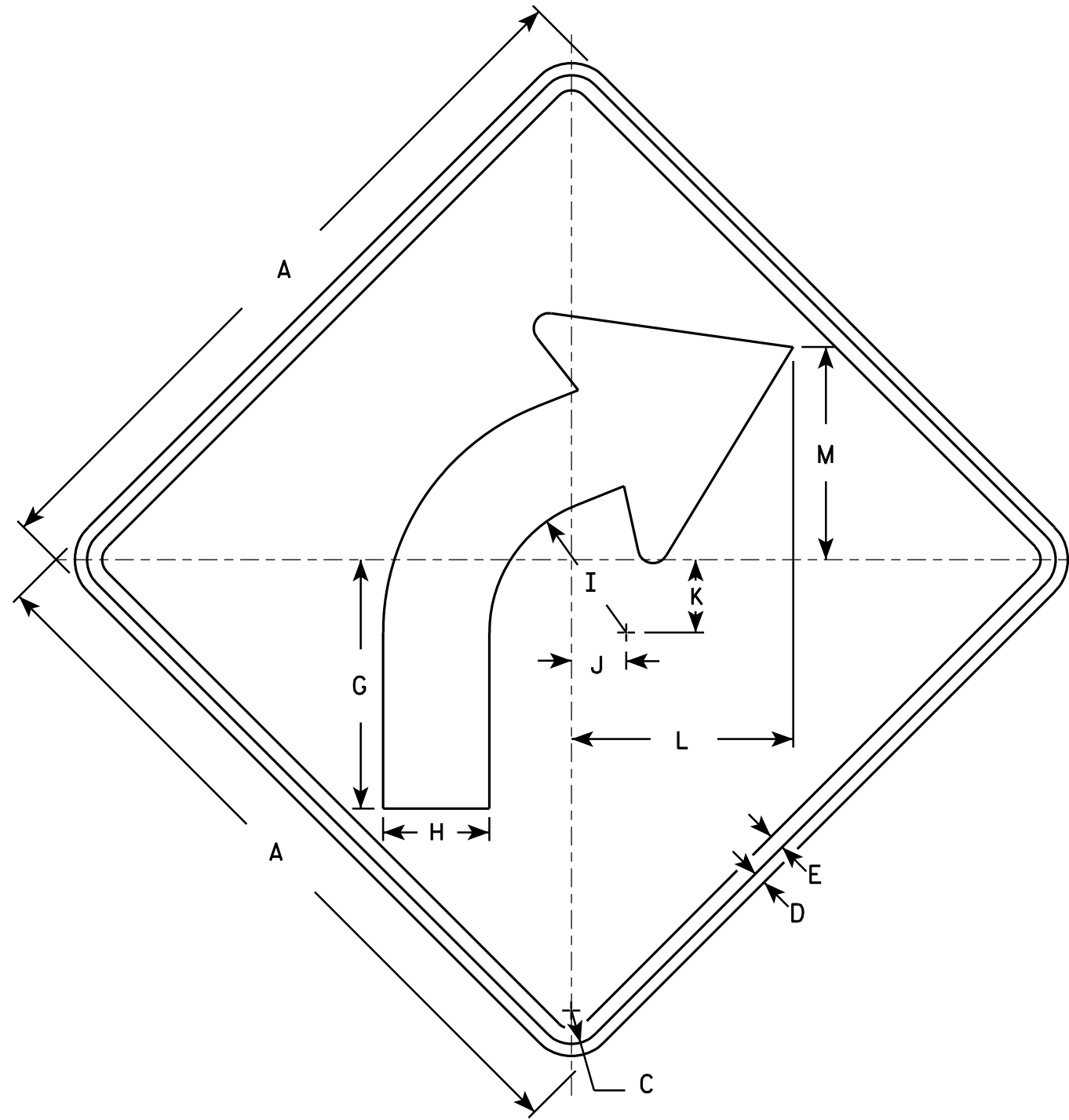
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 6/8/10 PLATE NO. S3-1.6

**NOTES**

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:  
Background - Yellow  
Message - Black
3. 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.
4. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



**ARROW DETAIL**

**W1-2R**

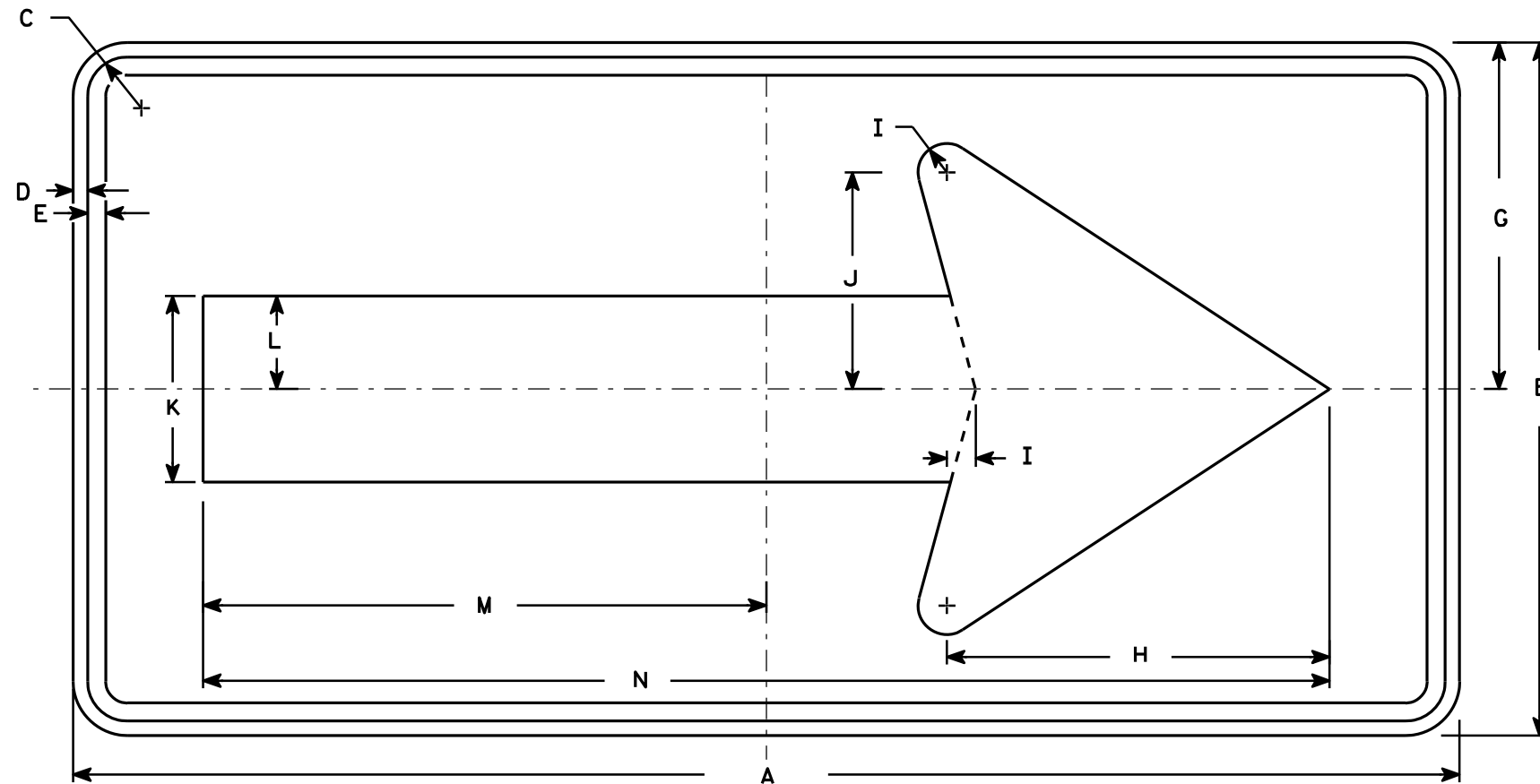
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
2S	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 5/8	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
3	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
4	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
5	48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 5/8	14 1/2	14	8	1												16.0

**STANDARD SIGN  
W1-2**

WISCONSIN DEPT OF TRANSPORTATION  
APPROVED *Matthew R. Rauch*  
For State Traffic Engineer  
DATE 5/15/12 PLATE NO. W1-2.10

**NOTES**

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:  
Background - Yellow  
Message - Black
3. 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.



W1-6

7

7

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	36	18	1 1/8	3/8	3/8		9	10	3/4	5 5/8	4 3/4	2 3/8	14 5/8	29 1/4													4.5
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	96	48	2 1/4	3/4	1		24	26 1/2	2	15	13	6 1/2	39	78													32.0

**STANDARD SIGN**  
W1-6

WISCONSIN DEPT OF TRANSPORTATION

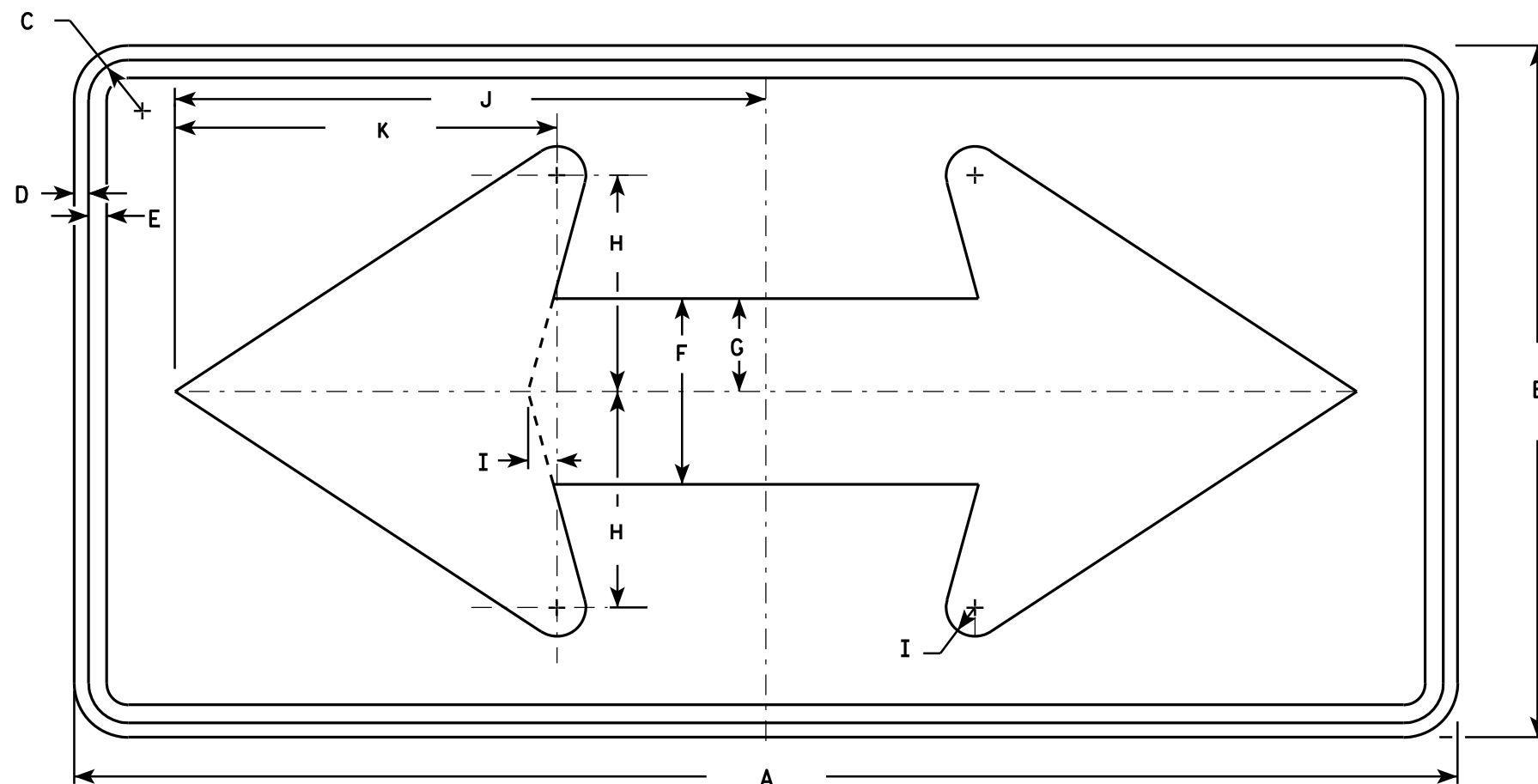
APPROVED *Matthew R. Rauch*  
For State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-6.8

PROJECT NO: \_\_\_\_\_ HWY: \_\_\_\_\_ COUNTY: \_\_\_\_\_ SHEET NO: \_\_\_\_\_

**NOTES**

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:  
Background - Yellow  
Message - Black
3. 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.



W1-7

7

7

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	36	18	1 1/8	3/8	1/2	5	2 1/2	5 3/4	3/4	15 5/8	10 1/8																4.5
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	96	48	2 1/4	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

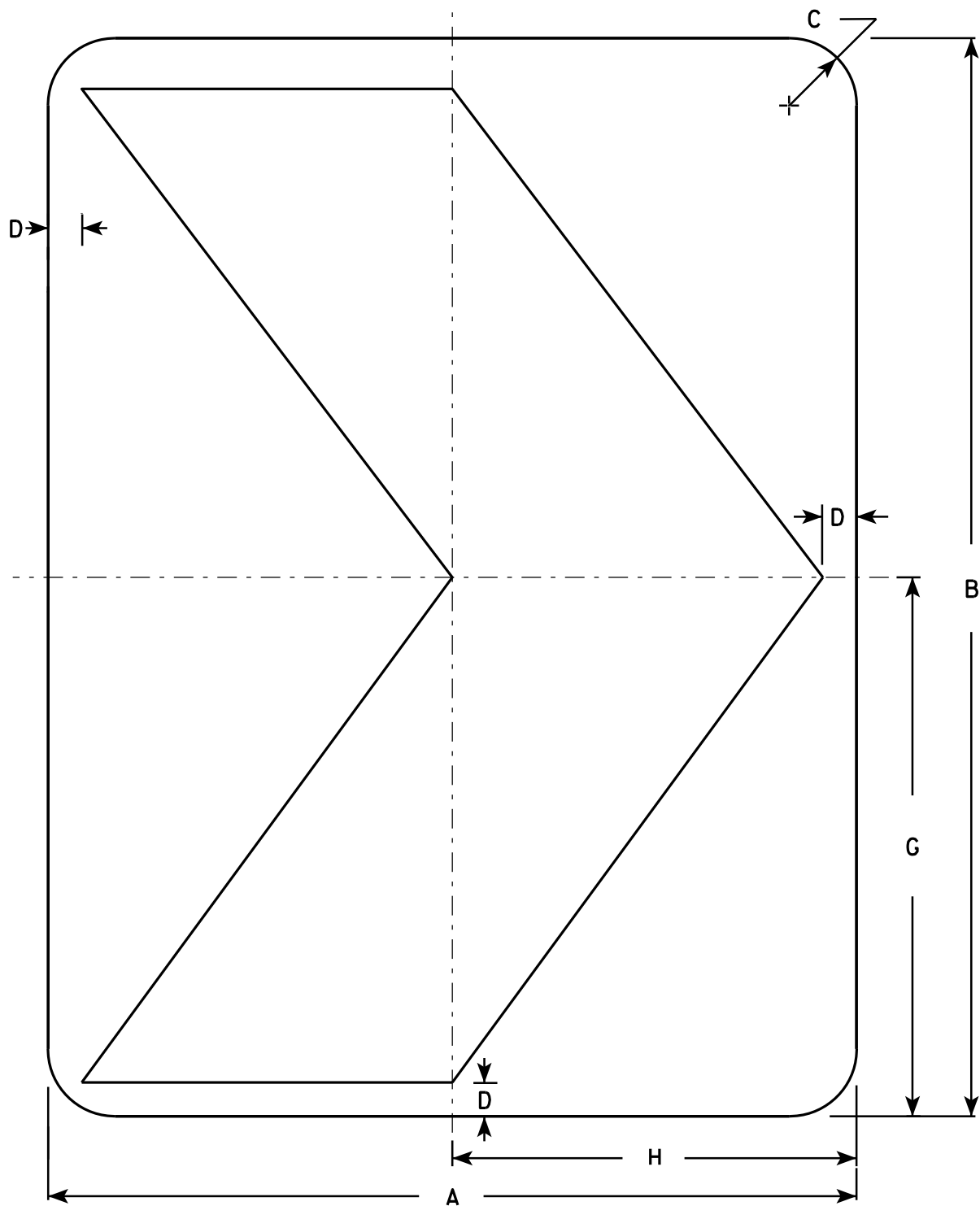
**STANDARD SIGN**  
W1-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
For State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-7.7

PROJECT NO: \_\_\_\_\_ HWY: \_\_\_\_\_ COUNTY: \_\_\_\_\_ SHEET NO: \_\_\_\_\_ E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:  
Background - Yellow  
Message - Black
3. 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.

7

7

W1-8

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	12	18	1 1/2	1/2			9	6																			1.5
2S	18	24	1 1/2	3/4			12	9																			3.0
2M	18	24	1 1/2	3/4			12	9																			3.0
3	24	30	1 1/2	1			15	12																			5.0
4	30	36	1 7/8	1 1/4			18	15																			7.5
5	36	48	2 1/4	1 1/2			24	18																			12.0

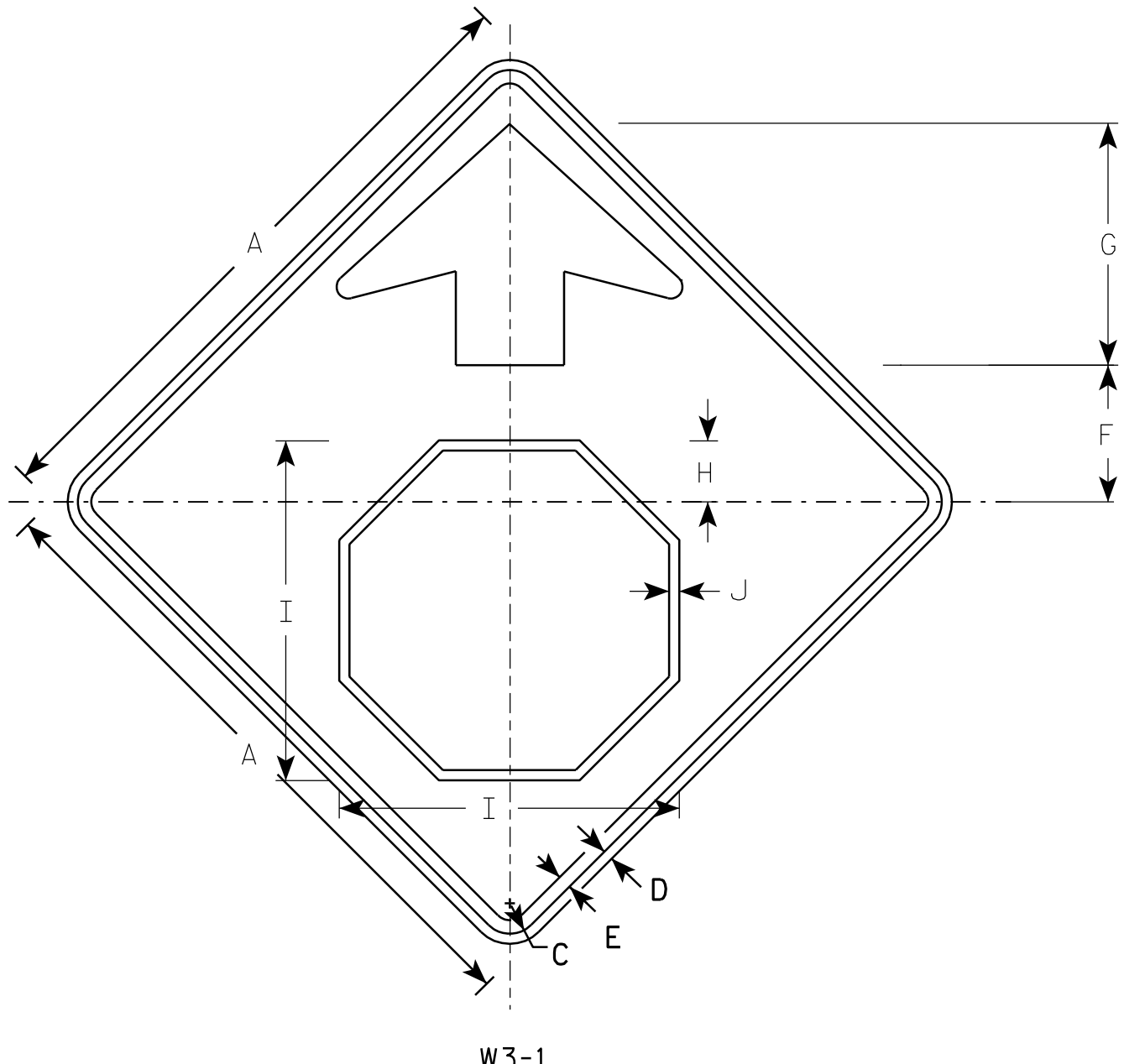
**STANDARD SIGN**  
W1-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-8.6

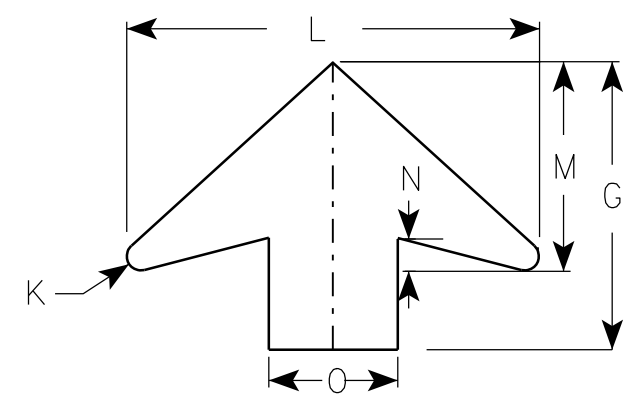




W3-1

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

7

7

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

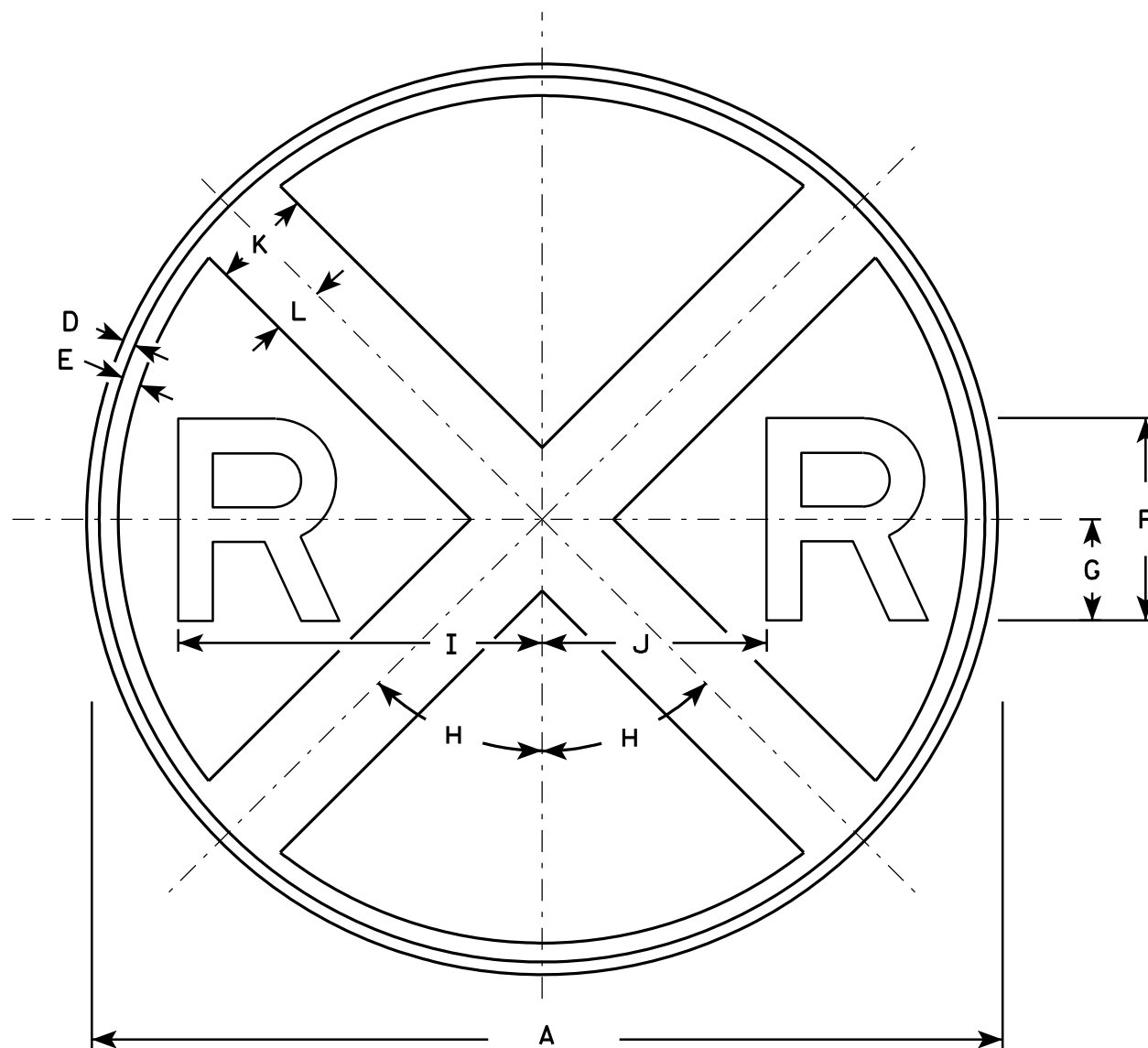
**STANDARD SIGN**  
W3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-1.12

PROJECT NO: \_\_\_\_\_ SHEET NO: \_\_\_\_\_ E



W10-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:  
Background - Yellow  
Message - Black
3. Message Series - E

7

7

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			3/8	5/8	7	3 1/2	45°	12 3/8	7 1/8	3	1 1/2															4.91
2S	36			5/8	3/4	8	4	45°	14 3/8	8 5/8	4	2															7.07
2M	36			5/8	3/4	8	4	45°	14 3/8	8 5/8	4	2															7.07
3																											
4	48			3/4	1 1/4	10	5	45°	18 3/8	11 5/8	5	2 1/2															12.57
5																											

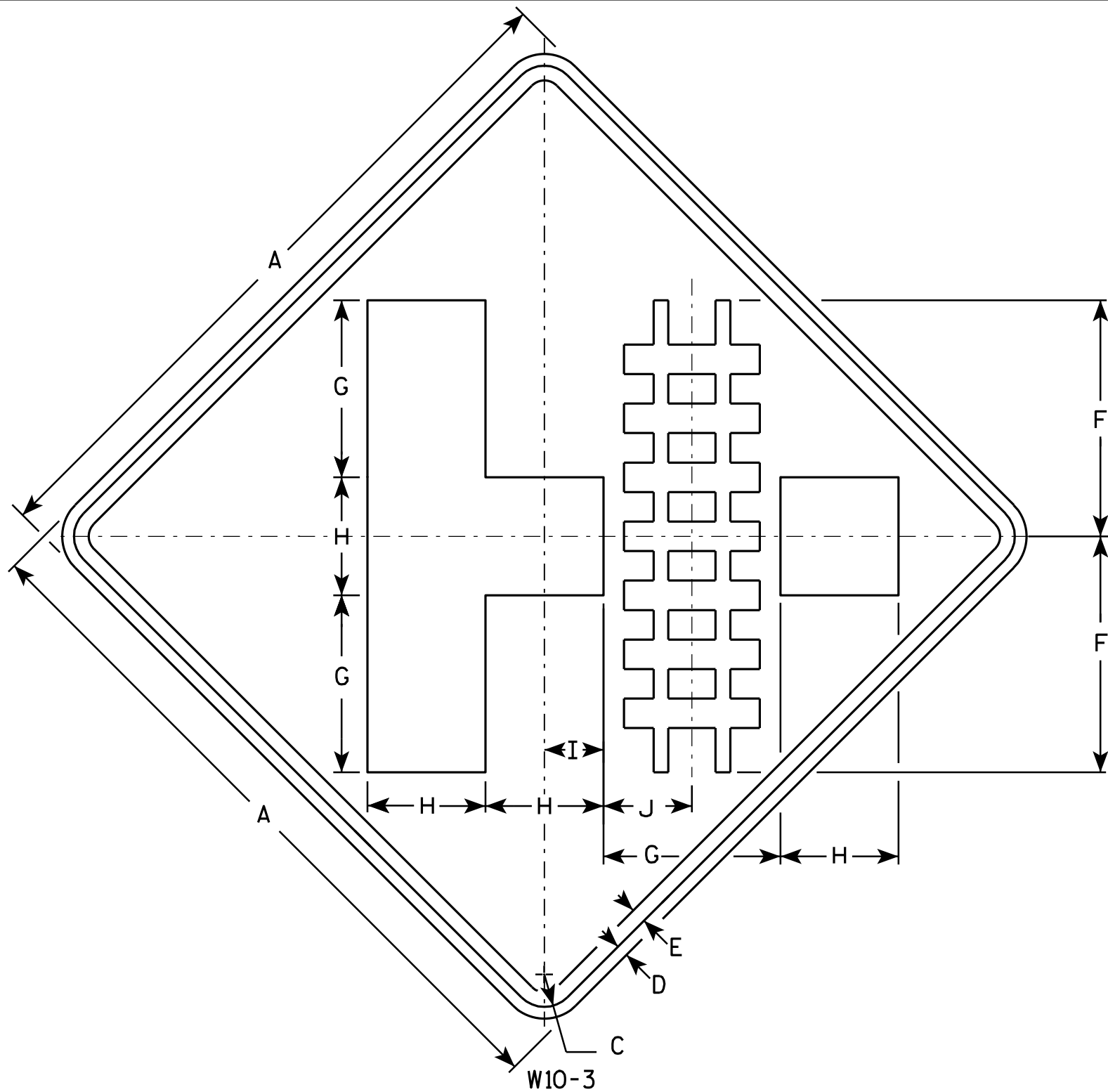
**STANDARD SIGN**  
W10-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

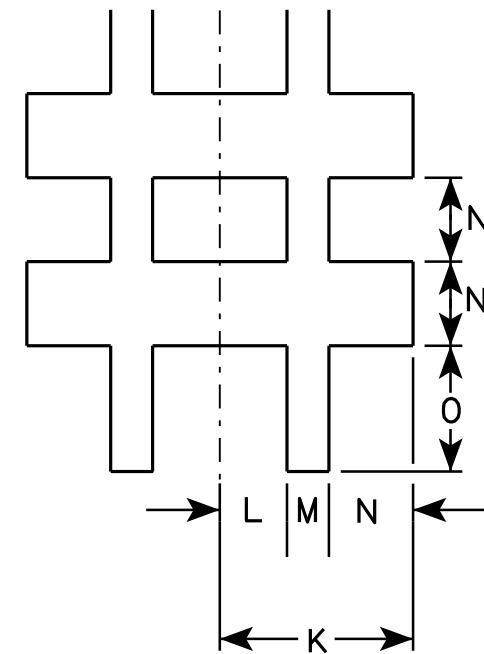
DATE 3/13/13 PLATE NO. W10-1.8

PROJECT NO: \_\_\_\_\_ HWY: \_\_\_\_\_ COUNTY: \_\_\_\_\_ SHEET NO: \_\_\_\_\_ E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:  
Background - Yellow  
Message - Black
3. 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.



7

7

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	10	7 1/2	5	2 1/2	3 3/4	2 7/8	1	5/8	1 1/4	1 7/8												6.25
2S	36		1 5/8	5/8	3/4	12	9	6	3	4 1/2	3 3/8	1 1/8	3/4	1 1/2	2 1/4												9.0
2M	36		1 5/8	5/8	3/4	12	9	6	3	4 1/2	3 3/8	1 1/8	3/4	1 1/2	2 1/4												9.0
3	36		1 5/8	5/8	3/4	12	9	6	3	4 1/2	3 3/8	1 1/8	3/4	1 1/2	2 1/4												9.0
4	48		2 1/4	3/4	1	16	12	8	4	6	4 1/2	1 1/2	1	2	3												16.0
5																											

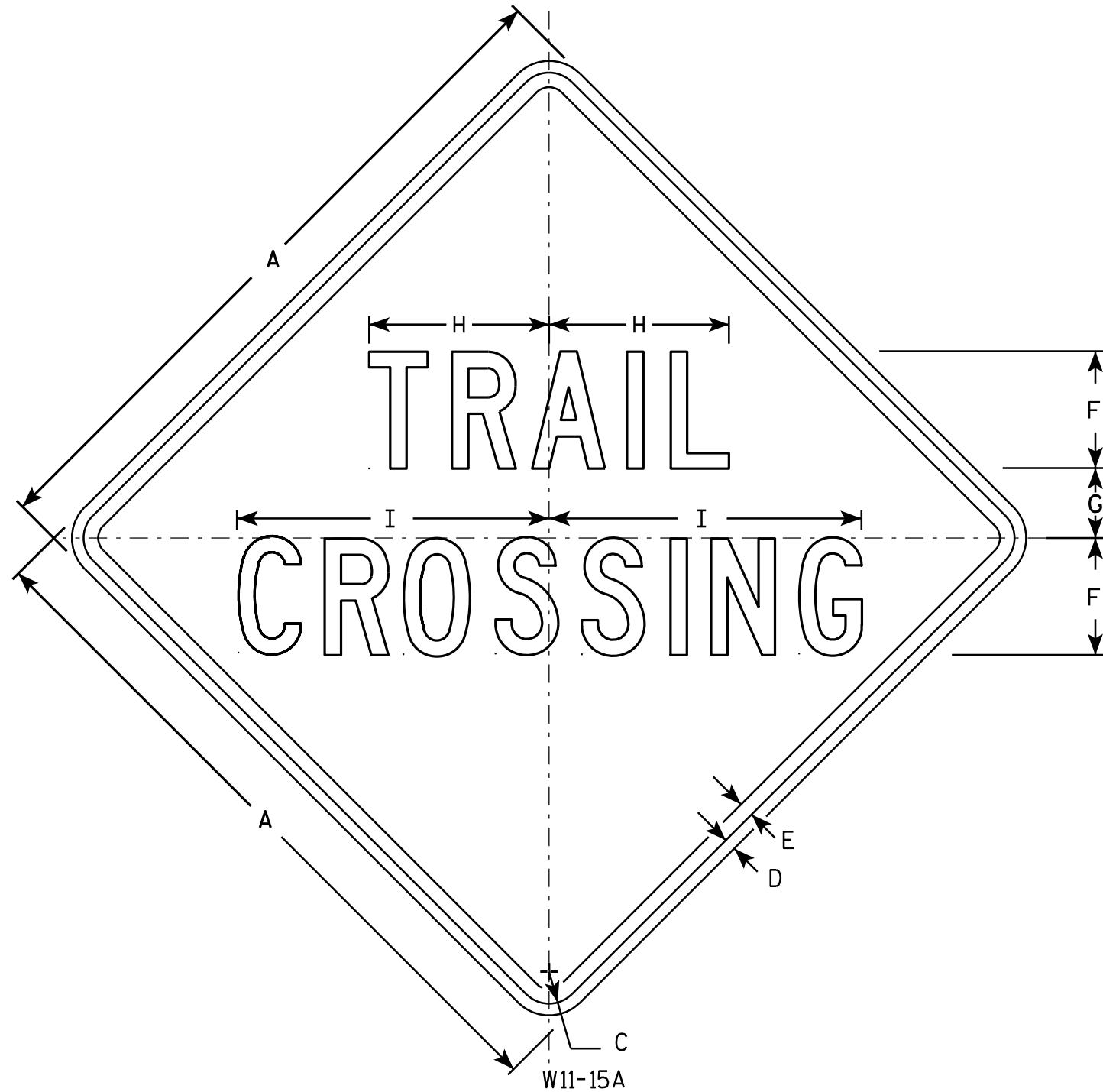
**STANDARD SIGN**  
**W10-3**

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W10-3.8

PROJECT NO: \_\_\_\_\_ HWY: \_\_\_\_\_ COUNTY: \_\_\_\_\_ SHEET NO: \_\_\_\_\_ E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:  
Background - Yellow  
Message - Black
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.

7

7

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	24		1 1/8	3/8	1/2	4	2 3/8	6 1/8	10 3/4																		4.0
2S	30		1 3/8	1/2	5/8	5	3	7 3/4	13 3/8																		6.25
2M	36		1 5/8	5/8	3/4	6	3 1/2	9 1/4	16																		9.0
3	36		1 5/8	5/8	3/4	6	3 1/2	9 1/4	16																		9.0
4	48		2 1/4	3/4	1	8	5	12 7/8	21 1/4																		16.0
5																											

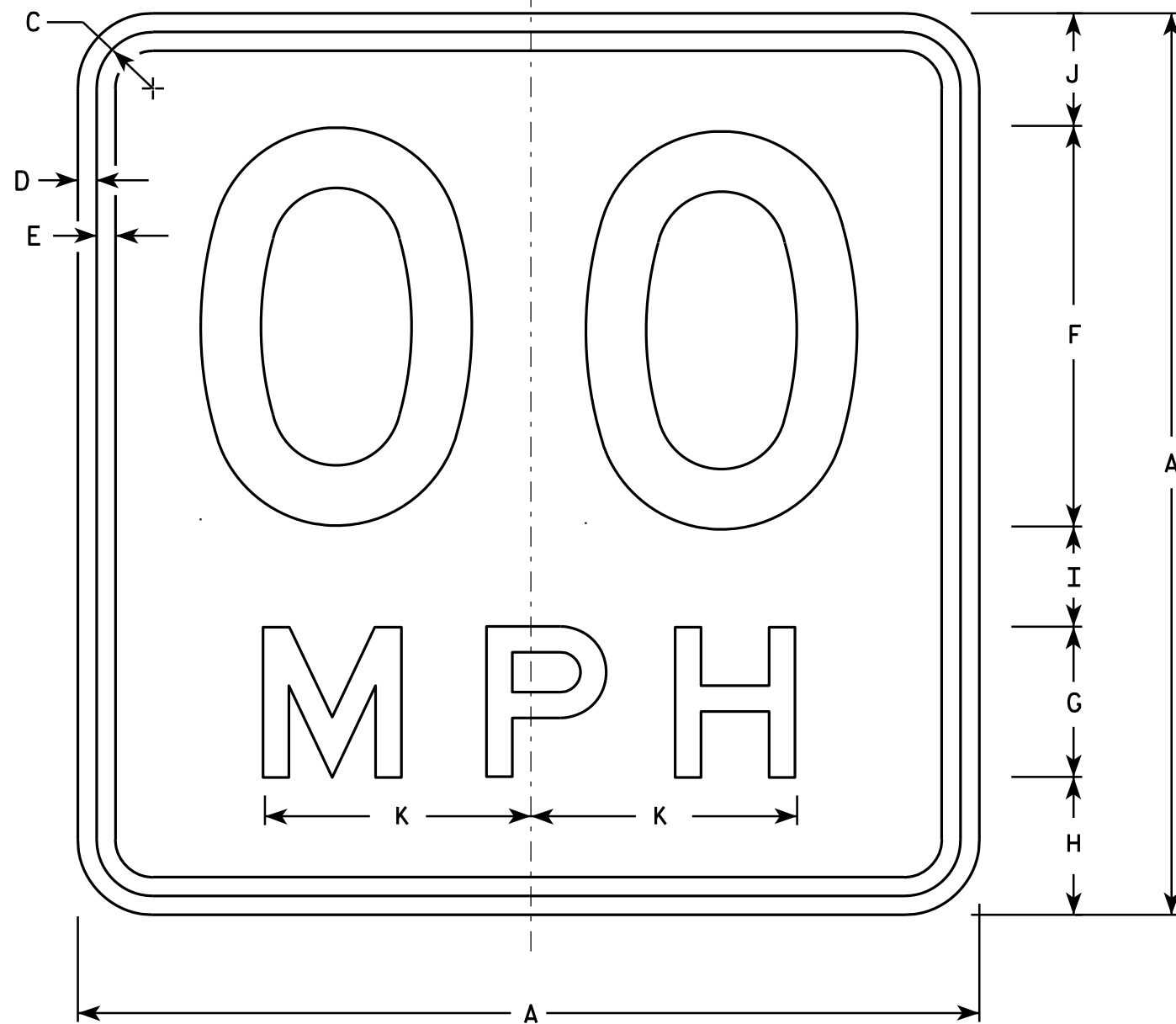
**STANDARD SIGN**  
W11-15A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
For State Traffic Engineer

DATE 12/21/10 PLATE NO. W11-15A.1

PROJECT NO: \_\_\_\_\_ HWY: \_\_\_\_\_ COUNTY: \_\_\_\_\_ SHEET NO: **E**



**NOTES**

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:  
Background - Yellow  
Message - Black
3. Message Series - See Note 6
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. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D  
Line 2 is Series E

W13-1

\* For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.  
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

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	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8															2.25	
* 2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8															2.25	
* 2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8															2.25	
3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8															4.00	
4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8															9.00	
5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8															9.00	

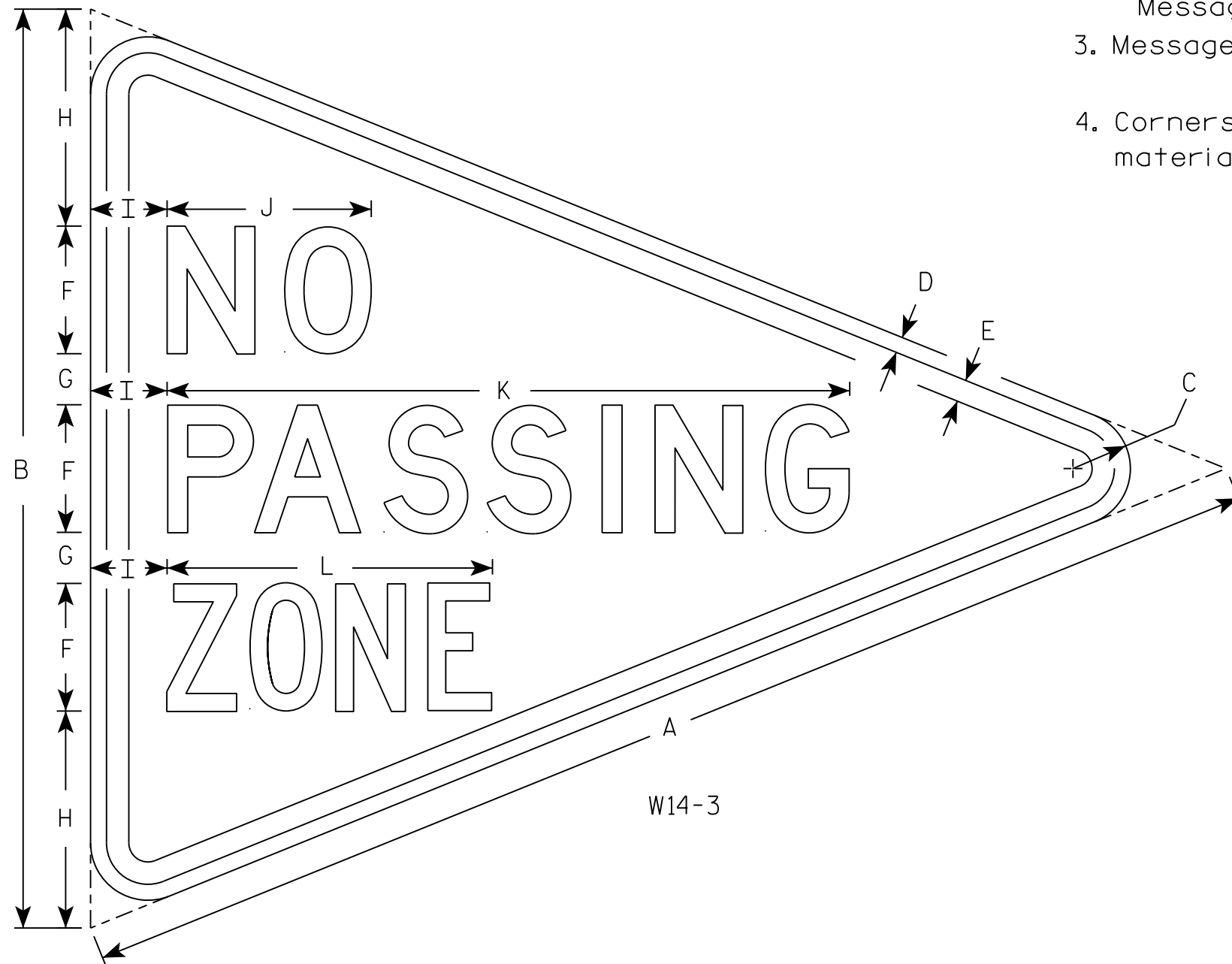
STANDARD SIGN  
W13-1

WISCONSIN DEPT OF TRANSPORTATION  
APPROVED *Matthew R. Rauch*  
For State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

NOTES

1. Sign is Type II - Type F Reflective
2. Color:  
Background - Yellow  
Message - Black
3. Message Series - Lines 1 and 2 are Series D.  
Line 3 is series C.
4. Corners and borders shall be rounded on all base materials for this sign.



7

7

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																											
2S	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															5.56
2M																											
3																											
4																											
5																											

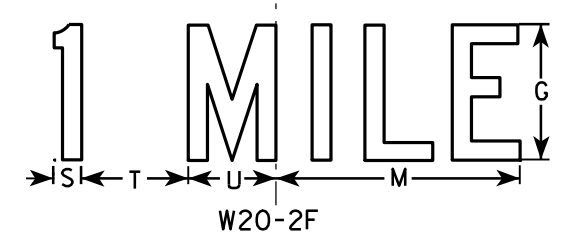
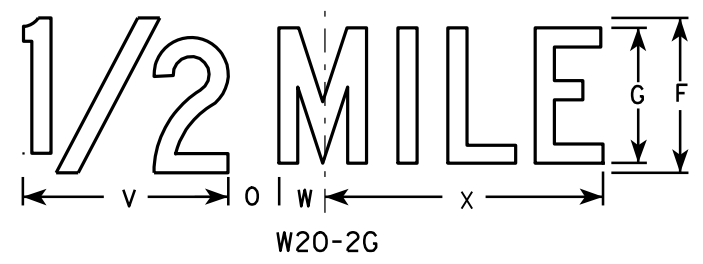
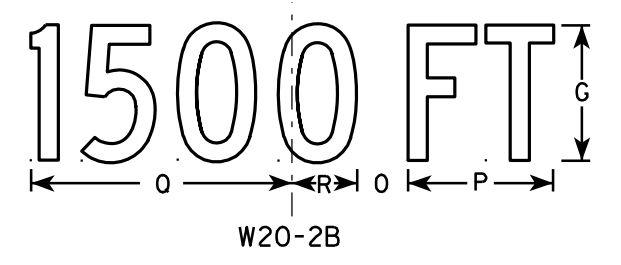
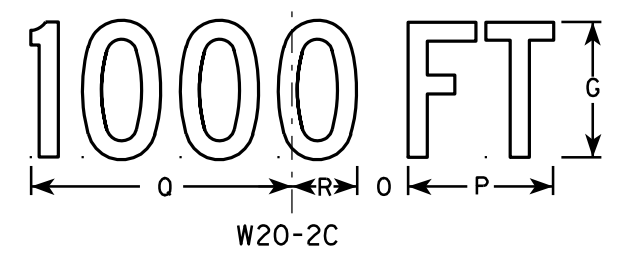
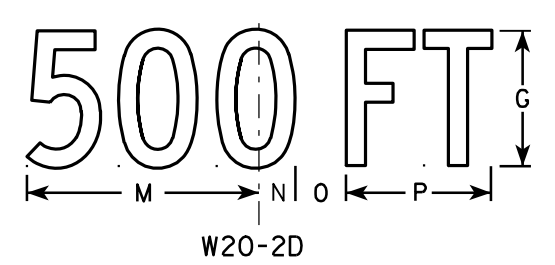
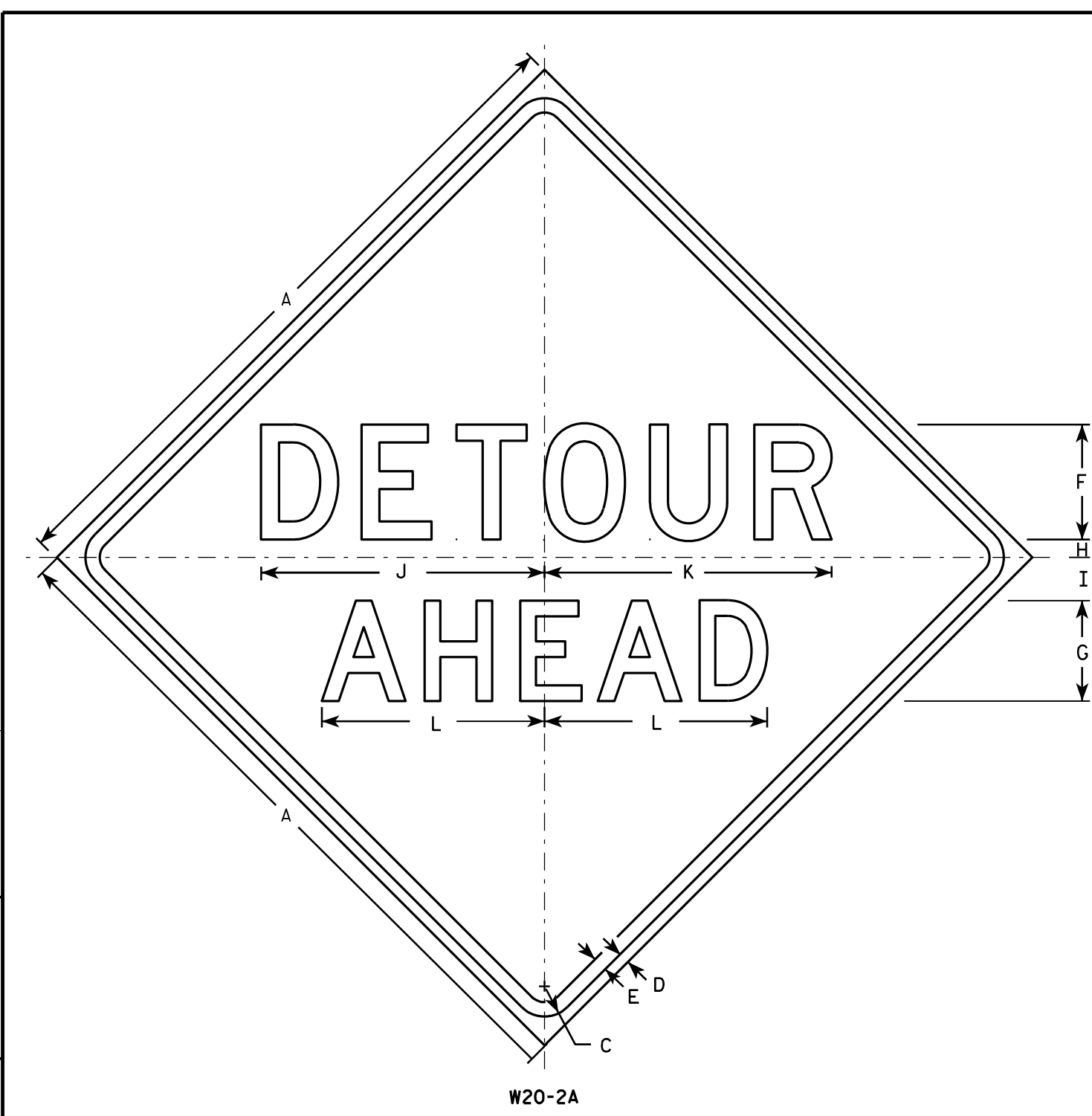
STANDARD SIGN  
W14-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 3/21/17 PLATE NO. W14-3.10

PROJECT NO: \_\_\_\_\_ HWY: \_\_\_\_\_ COUNTY: \_\_\_\_\_ SHEET NO: **E**



**NOTES**

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:  
Background - Orange  
Message - Black
3. Message Series - See note 5
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. Line 1 is Series D.  
Line 2 is Series D for AHEAD and Series C for all other distances.

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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	36		1 5/8	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

STANDARD SIGN  
W20-2A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

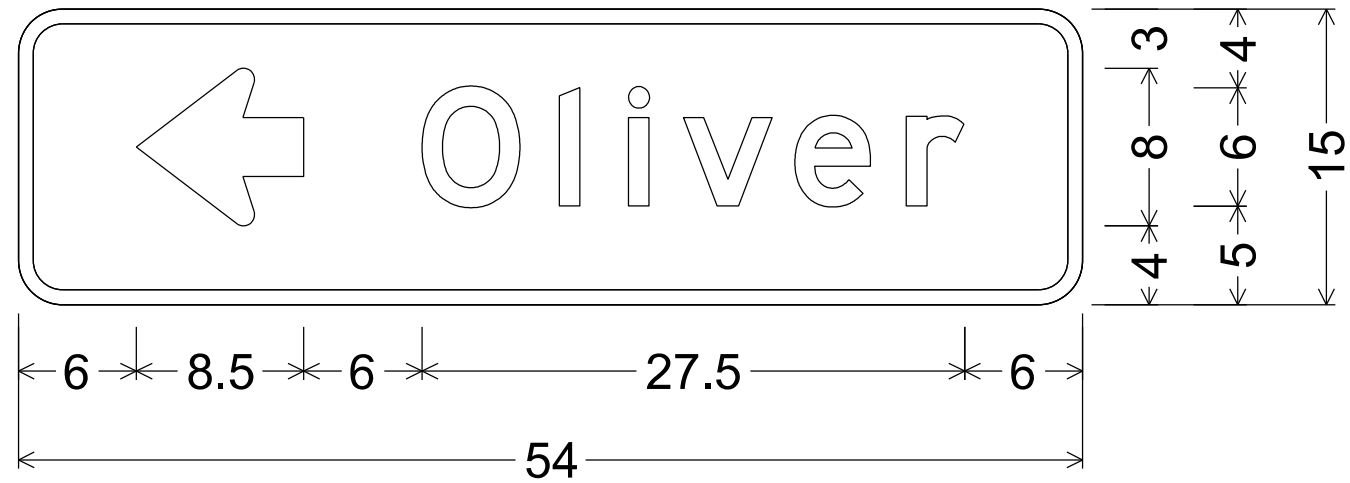
APPROVED *Matthew R. Raub*  
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-2.6

PROJECT NO: \_\_\_\_\_ HWY: \_\_\_\_\_ COUNTY: \_\_\_\_\_ SHEET NO: \_\_\_\_\_ E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:  
Background - Green  
Message - White
3. Message Series - E



D1-1; 2.250" Radius, 0.750" Border

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DIVISION 1 - CTH C

STATION	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
	CUT	FILL	CUT	FILL	CUT	EXPANDED FILL	MASS ORDINATE
98+00	92.93	0.00	0.00	0.00	0.00	0.00	0.00
98+50	79.51	0.01	160.00	0.00	160.00	0.00	160.00
99+00	62.72	0.76	132.00	1.00	292.00	1.30	290.70
99+50	53.17	9.15	107.00	9.00	399.00	13.00	386.00
99+65	54.59	28.95	30.00	11.00	429.00	27.30	401.70
12+66.86	82.91	17.79	89.00	30.00	518.00	66.30	451.70
100+34.74	137.05	0.00	142.00	11.00	660.00	80.60	579.40
100+70	109.85	0.00	161.00	0.00	821.00	80.60	740.40
101+00	60.89	11.80	95.00	7.00	916.00	89.70	826.30
101+75	47.78	2.55	151.00	20.00	1067.00	115.70	951.30
102+00	36.29	10.76	39.00	6.00	1106.00	123.50	982.50
103+00	76.28	2.71	208.00	25.00	1314.00	156.00	1158.00
104+00	105.25	0.84	336.00	7.00	1650.00	165.10	1484.90
105+00	81.90	3.27	347.00	8.00	1997.00	175.50	1821.50
106+00	128.86	0.00	390.00	6.00	2387.00	183.30	2203.70
107+00	187.65	0.01	586.00	0.00	2973.00	183.30	2789.70
108+00	307.96	0.00	918.00	0.00	3891.00	183.30	3707.70
108+80	326.01	0.00	939.00	0.00	4830.00	183.30	4646.70
109+00	309.47	0.00	235.00	0.00	5065.00	183.30	4881.70
109+20	295.11	0.00	224.00	0.00	5289.00	183.30	5105.70
110+00	411.87	0.00	1047.00	0.00	6336.00	183.30	6152.70
110+85	251.27	6.49	1044.00	10.00	7380.00	196.30	7183.70
111+00	251.15	4.81	140.00	3.00	7520.00	200.20	7319.80
111+50	236.72	3.06	452.00	7.00	7972.00	209.30	7762.70
112+00	218.03	8.35	421.00	11.00	8393.00	223.60	8169.40
113+00	211.71	8.21	796.00	31.00	9189.00	263.90	8925.10
113+20	216.26	7.72	159.00	6.00	9348.00	271.70	9076.30
114+00	130.60	14.96	514.00	34.00	9862.00	315.90	9546.10
115+00	28.88	47.53	295.00	116.00	10157.00	466.70	9690.30
116+00	6.05	345.38	65.00	728.00	10222.00	1413.10	8808.90
116+07	2.49	356.59	1.00	91.00	10223.00	1531.40	8691.60
116+19	6.20	336.90	2.00	154.00	10225.00	1731.60	8493.40
116+30	11.44	273.23	4.00	124.00	10229.00	1892.80	8336.20
117+00	5.88	80.88	22.00	459.00	10251.00	2489.50	7761.50
117+97	70.46	2.74	137.00	150.00	10388.00	2684.50	7703.50
118+00	75.28	1.56	8.00	0.00	10396.00	2684.50	7711.50
118+70	100.21	0.83	227.00	3.00	10623.00	2688.40	7934.60
119+00	123.95	0.66	125.00	1.00	10748.00	2689.70	8058.30
120+00	126.11	0.01	463.00	1.00	11211.00	2691.00	8520.00
120+57	131.26	0.39	272.00	0.00	11483.00	2691.00	8792.00
121+00	94.62	1.55	180.00	2.00	11663.00	2693.60	8969.40
122+00	21.10	53.80	214.00	103.00	11877.00	2827.50	9049.50
122+93	25.00	77.45	79.00	226.00	11956.00	3121.30	8834.70
123+00	29.24	72.34	7.00	19.00	11963.00	3146.00	8817.00
124+00	136.63	0.00	307.00	134.00	12270.00	3320.20	8949.80
125+00	156.87	0.00	544.00	0.00	12814.00	3320.20	9493.80
126+00	87.60	3.48	453.00	6.00	13267.00	3328.00	9939.00
127+00	87.10	12.54	324.00	30.00	13591.00	3367.00	10224.00
128+00	192.40	0.00	518.00	23.00	14109.00	3396.90	10712.10
129+00	152.39	0.00	639.00	0.00	14748.00	3396.90	11351.10

DIVISION 1 - CTH C

STATION	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
	CUT	FILL	CUT	FILL	CUT	EXPANDED FILL	MASS ORDINATE
130+00	43.98	39.42	364.00	73.00	15112.00	3491.80	11620.20
130+25	34.64	92.83	36.00	61.00	15148.00	3571.10	11576.90
130+50	44.15	130.39	36.00	103.00	15184.00	3705.00	11479.00
130+75	38.79	190.25	38.00	148.00	15222.00	3897.40	11324.60
131+00	48.45	95.07	40.00	132.00	15262.00	4069.00	11193.00
131+36	59.07	16.75	72.00	75.00	15334.00	4166.50	11167.50
132+00	80.58	8.82	166.00	30.00	15500.00	4205.50	11294.50
133+00	127.62	0.44	386.00	17.00	15886.00	4227.60	11658.40
133+45	122.27	1.46	208.00	2.00	16094.00	4230.20	11863.80
134+00	83.85	5.12	210.00	7.00	16304.00	4239.30	12064.70
135+00	103.74	0.35	347.00	10.00	16651.00	4252.30	12398.70
135+88	120.24	0.01	365.00	1.00	17016.00	4253.60	12762.40
136+00	121.62	0.00	54.00	0.00	17070.00	4253.60	12816.40
136+06	115.67	0.61	26.00	0.00	17096.00	4253.60	12842.40
137+00	49.28	13.06	287.00	24.00	17383.00	4284.80	13098.20
138+00	34.65	29.40	155.00	79.00	17538.00	4387.50	13150.50
139+00	37.48	18.70	134.00	89.00	17672.00	4503.20	13168.80
140+00	52.76	12.32	167.00	57.00	17839.00	4577.30	13261.70
140+71	83.33	5.02	179.00	23.00	18018.00	4607.20	13410.80
141+00	66.74	8.42	81.00	7.00	18099.00	4616.30	13482.70
142+00	34.50	23.28	187.00	59.00	18286.00	4693.00	13593.00
143+00	40.09	18.90	138.00	78.00	18424.00	4794.40	13629.60
144+00	88.94	2.29	239.00	39.00	18663.00	4845.10	13817.90
145+00	140.63	0.05	425.00	4.00	19088.00	4850.30	14237.70
146+00	73.40	7.09	396.00	13.00	19484.00	4867.20	14616.80
147+00	61.81	13.62	250.00	38.00	19734.00	4916.60	14817.40
148+00	76.96	4.37	257.00	33.00	19991.00	4959.50	15031.50
149+00	102.78	1.55	333.00	11.00	20324.00	4973.80	15350.20
150+00	43.88	43.66	272.00	84.00	20596.00	5083.00	15513.00
151+00	116.11	1.78	296.00	84.00	20892.00	5192.20	15699.80
151+91	168.00	0.05	479.00	3.00	21371.00	5196.10	16174.90
152+00	162.94	0.01	55.00	0.00	21426.00	5196.10	16229.90
153+00	25.51	41.60	349.00	77.00	21775.00	5296.20	16478.80
154+00	17.27	46.18	79.00	163.00	21854.00	5508.10	16345.90
155+00	56.67	16.09	137.00	115.00	21991.00	5657.60	16333.40
156+00	94.81	0.77	281.00	31.00	22272.00	5697.90	16574.10
156+73.64	195.21	0.00	396.00	1.00	22668.00	5699.20	16968.80
157+00	197.16	0.00	192.00	0.00	22860.00	5699.20	17160.80
158+00	167.04	19.16	674.00	35.00	23534.00	5744.70	17789.30
158+25	132.15	26.24	139.00	21.00	23673.00	5772.00	17901.00
158+50	100.24	31.39	108.00	27.00	23781.00	5807.10	17973.90
158+75	76.87	47.27	82.00	36.00	23863.00	5853.90	18009.10
159+00	41.80	115.13	55.00	75.00	23918.00	5951.40	17966.60
159+21.80	9.58	316.18	21.00	174.00	23939.00	6177.60	17761.40
159+40.58	0.00	691.24	3.00	350.00	23942.00	6632.60	17309.40
159+59.36	0.00	524.66	0.00	423.00	23942.00	7182.50	16759.50
160+00	0.00	301.85	0.00	622.00	23942.00	7991.10	15950.90
160+50	6.03	216.05	6.00	480.00	23948.00	8615.10	15332.90
160+75	14.98	237.13	10.00	210.00	23958.00	8888.10	15069.90
161+00	12.88	223.33	13.00	213.00	23971.00	9165.00	14806.00

DIVISION 1 - CTH C							
STATION	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
	CUT	FILL	CUT	FILL	CUT	EXPANDED FILL	MASS ORDINATE
161+25	3.17	154.51	7.00	175.00	23978.00	9392.50	14585.50
161+50	22.34	46.66	12.00	93.00	23990.00	9513.40	14476.60
161+75	92.49	9.31	53.00	26.00	24043.00	9547.20	14495.80
162+00	72.98	6.80	77.00	7.00	24120.00	9556.30	14563.70
163+00	170.62	0.00	451.00	13.00	24571.00	9573.20	14997.80
163+12	198.59	0.00	82.00	0.00	24653.00	9573.20	15079.80
164+00	156.18	0.21	578.00	0.00	25231.00	9573.20	15657.80
165+00	73.45	16.50	425.00	31.00	25656.00	9613.50	16042.50
166+00	21.06	120.13	175.00	253.00	25831.00	9942.40	15888.60
166+20	14.38	224.46	13.00	128.00	25844.00	10108.80	15735.20
167+00	25.80	66.59	60.00	431.00	25904.00	10669.10	15234.90
168+00	44.24	16.15	130.00	153.00	26034.00	10868.00	15166.00
169+00	52.02	11.51	178.00	51.00	26212.00	10934.30	15277.70
170+00	66.47	9.82	219.00	39.00	26431.00	10985.00	15446.00
171+00	124.65	1.08	354.00	20.00	26785.00	11011.00	15774.00
172+00	58.49	12.54	339.00	25.00	27124.00	11043.50	16080.50
173+00	78.98	10.08	255.00	42.00	27379.00	11098.10	16280.90
174+00	118.50	11.02	366.00	39.00	27745.00	11148.80	16596.20
175+00	88.13	12.81	383.00	44.00	28128.00	11206.00	16922.00
176+00	76.05	8.47	304.00	39.00	28432.00	11256.70	17175.30
177+00	57.56	18.99	247.00	51.00	28679.00	11323.00	17356.00
178+00	55.69	27.30	210.00	86.00	28889.00	11434.80	17454.20
179+00	47.74	33.25	192.00	112.00	29081.00	11580.40	17500.60
180+00	41.34	42.32	165.00	140.00	29246.00	11762.40	17483.60
181+00	33.09	59.85	138.00	189.00	29384.00	12008.10	17375.90
182+00	39.95	69.69	135.00	240.00	29519.00	12320.10	17198.90
183+00	62.04	49.91	189.00	221.00	29708.00	12607.40	17100.60
184+00	80.98	36.32	265.00	160.00	29973.00	12815.40	17157.60
185+00	77.88	10.11	294.00	86.00	30267.00	12927.20	17339.80
186+00	96.81	2.50	323.00	23.00	30590.00	12957.10	17632.90
187+00	90.27	8.97	346.00	21.00	30936.00	12984.40	17951.60
187+90	50.51	0.69	235.00	16.00	31171.00	13005.20	18165.80
188+00	65.03	2.59	21.00	1.00	31192.00	13006.50	18185.50
188+10	50.93	8.77	21.00	2.00	31213.00	13009.10	18203.90
189+00	169.94	2.09	368.00	18.00	31581.00	13032.50	18548.50
190+00	162.09	0.33	615.00	4.00	32196.00	13037.70	19158.30
191+00	163.21	0.73	602.00	2.00	32798.00	13040.30	19757.70
191+92	194.60	0.01	610.00	1.00	33408.00	13041.60	20366.40
192+00	192.07	0.00	57.00	0.00	33465.00	13041.60	20423.40
193+00	120.38	1.11	579.00	2.00	34044.00	13044.20	20999.80
194+00	134.05	0.25	471.00	3.00	34515.00	13048.10	21466.90
195+00	115.88	0.27	463.00	1.00	34978.00	13049.40	21928.60
196+00	72.61	5.21	349.00	10.00	35327.00	13062.40	22264.60
197+00	67.87	4.35	260.00	18.00	35587.00	13085.80	22501.20
198+00	57.87	10.86	233.00	28.00	35820.00	13122.20	22697.80
199+00	35.25	24.66	172.00	66.00	35992.00	13208.00	22784.00
200+00	31.59	20.84	124.00	84.00	36116.00	13317.20	22798.80
201+00	6.30	57.58	70.00	145.00	36186.00	13505.70	22680.30
202+00	4.87	63.79	21.00	225.00	36207.00	13798.20	22408.80
203+00	8.73	64.37	25.00	237.00	36232.00	14106.30	22125.70
204+00	9.58	48.44	34.00	209.00	36266.00	14378.00	21888.00

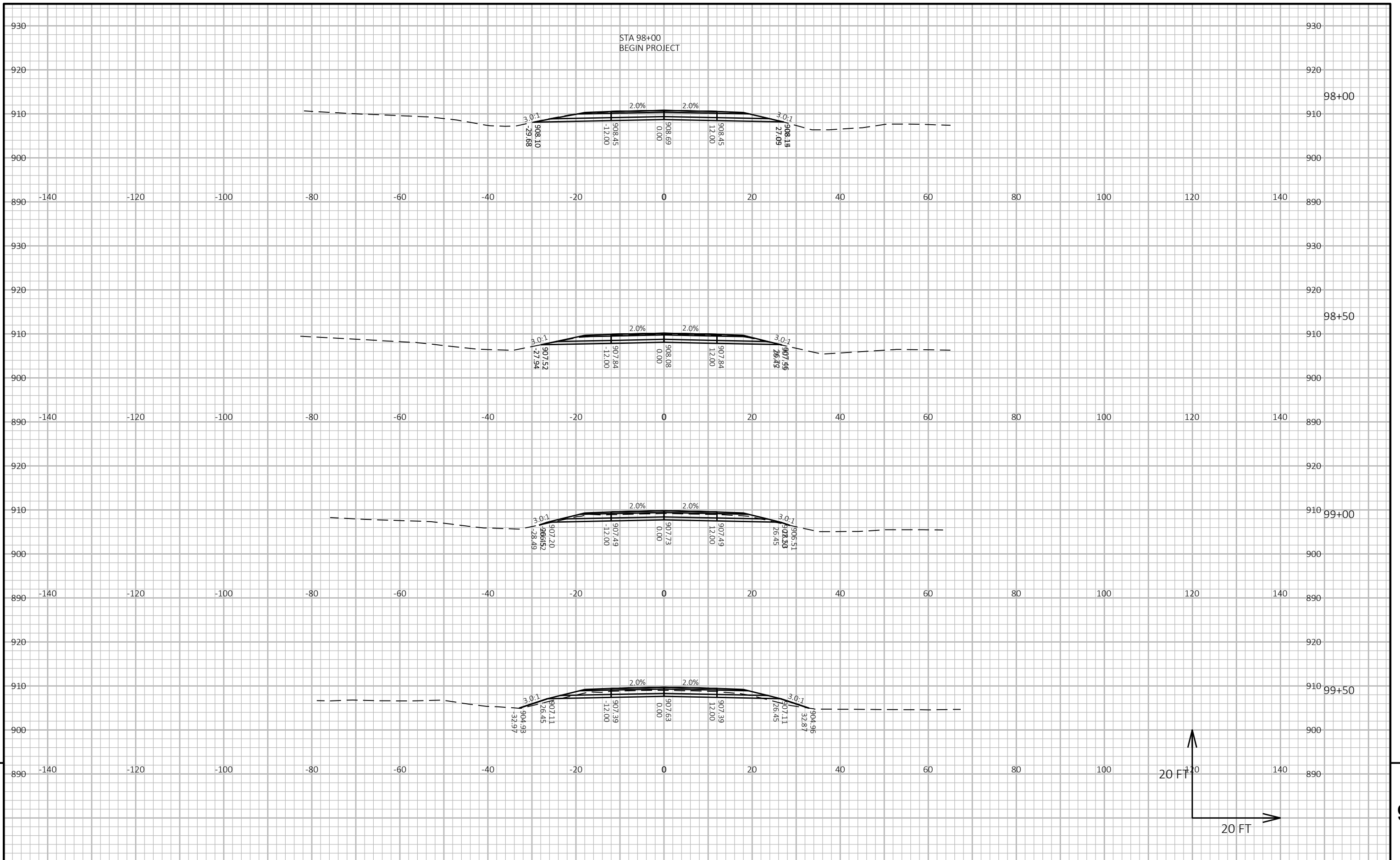
DIVISION 1 - CTH C							
STATION	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
	CUT	FILL	CUT	FILL	CUT	EXPANDED FILL	MASS ORDINATE
205+00	18.46	48.38	52.00	179.00	36318.00	14610.70	21707.30
206+00	14.80	56.16	62.00	194.00	36380.00	14862.90	21517.10
207+00	4.09	59.85	35.00	215.00	36415.00	15142.40	21272.60
208+00	1.79	74.06	11.00	248.00	36426.00	15464.80	20961.20
209+00	1.26	90.97	6.00	306.00	36432.00	15862.60	20569.40
209+66.04	57.39	54.56	72.00	178.00	36504.00	16094.00	20410.00
210+00	5.99	89.53	40.00	91.00	36544.00	16212.30	20331.70
211+00	0.54	117.70	12.00	384.00	36556.00	16711.50	19844.50
212+00	0.00	142.37	1.00	482.00	36557.00	17338.10	19218.90
213+00	0.00	125.61	0.00	496.00	36557.00	17982.90	18574.10
214+00	1.26	107.84	2.00	432.00	36559.00	18544.50	18014.50
215+00	0.84	92.57	4.00	371.00	36563.00	19026.80	17536.20
216+00	0.22	85.88	2.00	330.00	36565.00	19455.80	17109.20
217+00	0.16	78.77	1.00	305.00	36566.00	19852.30	16713.70
218+00	0.82	63.41	2.00	263.00	36568.00	20194.20	16373.80
219+00	0.00	66.86	2.00	241.00	36570.00	20507.50	16062.50
220+00	1.09	59.48	2.00	234.00	36572.00	20811.70	15760.30
221+00	12.52	36.59	25.00	178.00	36597.00	21043.10	15553.90
222+00	41.94	20.12	101.00	105.00	36698.00	21179.60	15518.40
223+00	67.96	26.43	204.00	86.00	36902.00	21291.40	15610.60
224+00	83.00	30.77	280.00	106.00	37182.00	21429.20	15752.80
225+00	93.73	26.88	327.00	107.00	37509.00	21568.30	15940.70
226+00	51.00	38.34	268.00	121.00	37777.00	21725.60	16051.40
227+00	64.27	36.15	213.00	138.00	37990.00	21905.00	16085.00
228+00	63.12	43.63	236.00	148.00	38226.00	22097.40	16128.60
229+00	65.48	51.03	238.00	175.00	38464.00	22324.90	16139.10
230+00	63.24	48.56	238.00	184.00	38702.00	22564.10	16137.90
231+00	68.84	40.85	245.00	166.00	38947.00	22779.90	16167.10
232+00	100.97	31.27	314.00	134.00	39261.00	22954.10	16306.90
233+00	109.47	25.87	390.00	106.00	39651.00	23091.90	16559.10
234+00	96.12	30.26	381.00	104.00	40032.00	23227.10	16804.90
235+00	57.89	32.18	285.00	116.00	40317.00	23377.90	16939.10
236+00	54.41	36.03	208.00	126.00	40525.00	23541.70	16983.30
237+00	59.12	38.90	210.00	139.00	40735.00	23722.40	17012.60
238+00	50.13	24.15	202.00	117.00	40937.00	23874.50	17062.50
238+28	79.19	15.07	67.00	20.00	41004.00	23900.50	17103.50
239+00	59.58	18.91	185.00	45.00	41189.00	23959.00	17230.00
240+00	54.32	23.43	211.00	78.00	41400.00	24060.40	17339.60
241+00	45.51	27.21	185.00	94.00	41585.00	24182.60	17402.40
242+00	46.94	27.64	171.00	102.00	41756.00	24315.20	17440.80
243+00	54.76	26.75	188.00	101.00	41944.00	24446.50	17497.50
244+00	49.90	26.53	194.00	99.00	42138.00	24575.20	17562.80
245+00	49.89	26.53	185.00	98.00	42323.00	24702.60	17620.40
246+00	64.98	33.25	213.00	111.00	42536.00	24846.90	17689.10
247+00	51.84	38.62	216.00	133.00	42752.00	25019.80	17732.20
247+62	91.13	25.04	164.00	73.00	42916.00	25114.70	17801.30
248+00	53.83	28.22	102.00	37.00	43018.00	25162.80	17855.20
249+00	55.02	23.77	202.00	96.00	43220.00	25287.60	17932.40
249+24	80.79	19.58	60.00	19.00	43280.00	25312.30	17967.70
250+00	53.30	11.69	189.00	44.00	43469.00	25369.50	18099.50
251+00	58.85	19.81	208.00	58.00	43677.00	25444.90	18232.10

DIVISION 1 - CTH C							
STATION	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
	CUT	FILL	CUT	FILL	CUT	EXPANDED FILL	MASS ORDINATE
252+00	62.29	23.96	224.00	81.00	43901.00	25550.20	18350.80
253+00	53.91	27.07	215.00	94.00	44116.00	25672.40	18443.60
254+00	49.88	28.22	192.00	102.00	44308.00	25805.00	18503.00
255+00	34.89	38.88	157.00	124.00	44465.00	25966.20	18498.80
255+87	35.39	31.67	113.00	114.00	44578.00	26114.40	18463.60
256+00	24.29	32.42	14.00	15.00	44592.00	26133.90	18458.10
257+00	9.21	48.74	62.00	150.00	44654.00	26328.90	18325.10
258+00	2.44	55.11	22.00	192.00	44676.00	26578.50	18097.50
259+00	8.72	47.34	21.00	190.00	44697.00	26825.50	17871.50
260+00	7.01	52.37	29.00	185.00	44726.00	27066.00	17660.00
261+00	7.07	55.27	26.00	199.00	44752.00	27324.70	17427.30
262+00	13.65	43.42	38.00	183.00	44790.00	27562.60	17227.40
262+65.19	60.19	22.82	89.00	80.00	44879.00	27666.60	17212.40
263+00	36.05	23.81	62.00	30.00	44941.00	27705.60	17235.40
264+00	20.35	49.02	104.00	135.00	45045.00	27881.10	17163.90
265+00	23.12	52.33	80.00	188.00	45125.00	28125.50	16999.50
266+00	14.24	54.16	69.00	197.00	45194.00	28381.60	16812.40
267+00	9.47	60.00	44.00	211.00	45238.00	28655.90	16582.10
268+00	6.99	67.18	30.00	236.00	45268.00	28962.70	16305.30
269+00	3.35	78.15	19.00	269.00	45287.00	29312.40	15974.60
270+00	0.74	80.29	8.00	293.00	45295.00	29693.30	15601.70
271+00	0.31	97.08	2.00	328.00	45297.00	30119.70	15177.30
272+00	2.25	95.98	5.00	358.00	45302.00	30585.10	14716.90
272+47	21.61	61.79	21.00	137.00	45323.00	30763.20	14559.80
273+00	16.28	72.23	37.00	132.00	45360.00	30934.80	14425.20
274+00	3.69	94.99	37.00	310.00	45397.00	31337.80	14059.20
275+00	5.52	79.47	17.00	323.00	45414.00	31757.70	13656.30
276+00	1.93	93.34	14.00	320.00	45428.00	32173.70	13254.30
276+08	6.56	94.76	1.00	28.00	45429.00	32210.10	13218.90
277+00	5.02	76.35	20.00	292.00	45449.00	32589.70	12859.30
278+00	13.57	79.73	34.00	289.00	45483.00	32965.40	12517.60
279+00	8.01	63.88	40.00	266.00	45523.00	33311.20	12211.80
280+00	20.76	57.80	53.00	225.00	45576.00	33603.70	11972.30
281+00	11.04	55.21	59.00	209.00	45635.00	33875.40	11759.60
282+00	3.46	61.72	27.00	217.00	45662.00	34157.50	11504.50
283+00	10.45	58.20	26.00	222.00	45688.00	34446.10	11241.90
283+48	49.56	24.95	53.00	74.00	45741.00	34542.30	11198.70
284+00	32.78	35.10	79.00	58.00	45820.00	34617.70	11202.30
285+00	20.93	50.58	99.00	159.00	45919.00	34824.40	11094.60
286+00	49.34	23.42	130.00	137.00	46049.00	35002.50	11046.50
287+00	43.57	23.44	172.00	87.00	46221.00	35115.60	11105.40
288+00	34.30	29.25	144.00	98.00	46365.00	35243.00	11122.00
289+00	36.57	24.92	131.00	100.00	46496.00	35373.00	11123.00
290+00	42.95	20.63	147.00	84.00	46643.00	35482.20	11160.80
290+91.64	283.15	0.00	553.00	35.00	47196.00	35527.70	11668.30
291+00	236.16	0.00	80.00	0.00	47276.00	35527.70	11748.30
292+00	80.17	6.46	586.00	12.00	47862.00	35543.30	12318.70
292+14	81.37	4.83	42.00	3.00	47904.00	35547.20	12356.80
292+50	74.92	6.91	104.00	8.00	48008.00	35557.60	12450.40

DIVISION 2 - CTH W 30 MPH							
STATION	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
	CUT	FILL	CUT	FILL	CUT	EXPANDED FILL	MASS ORDINATE
10+50	167.38	60.05	0.00	0.00	0.00	0.00	0.00
11+00	82.69	54.87	232.00	106.00	232.00	137.80	94.20
11+50	73.17	43.00	144.00	91.00	376.00	256.10	119.90
12+00	70.16	11.48	133.00	50.00	509.00	321.10	187.90
12+45	65.99	0.98	113.00	10.00	622.00	334.10	287.90
12+66.86	0.00	0.00	27.00	0.00	649.00	334.10	314.90

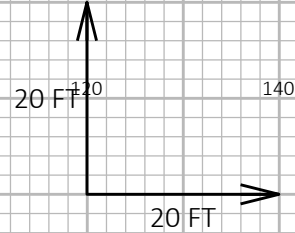
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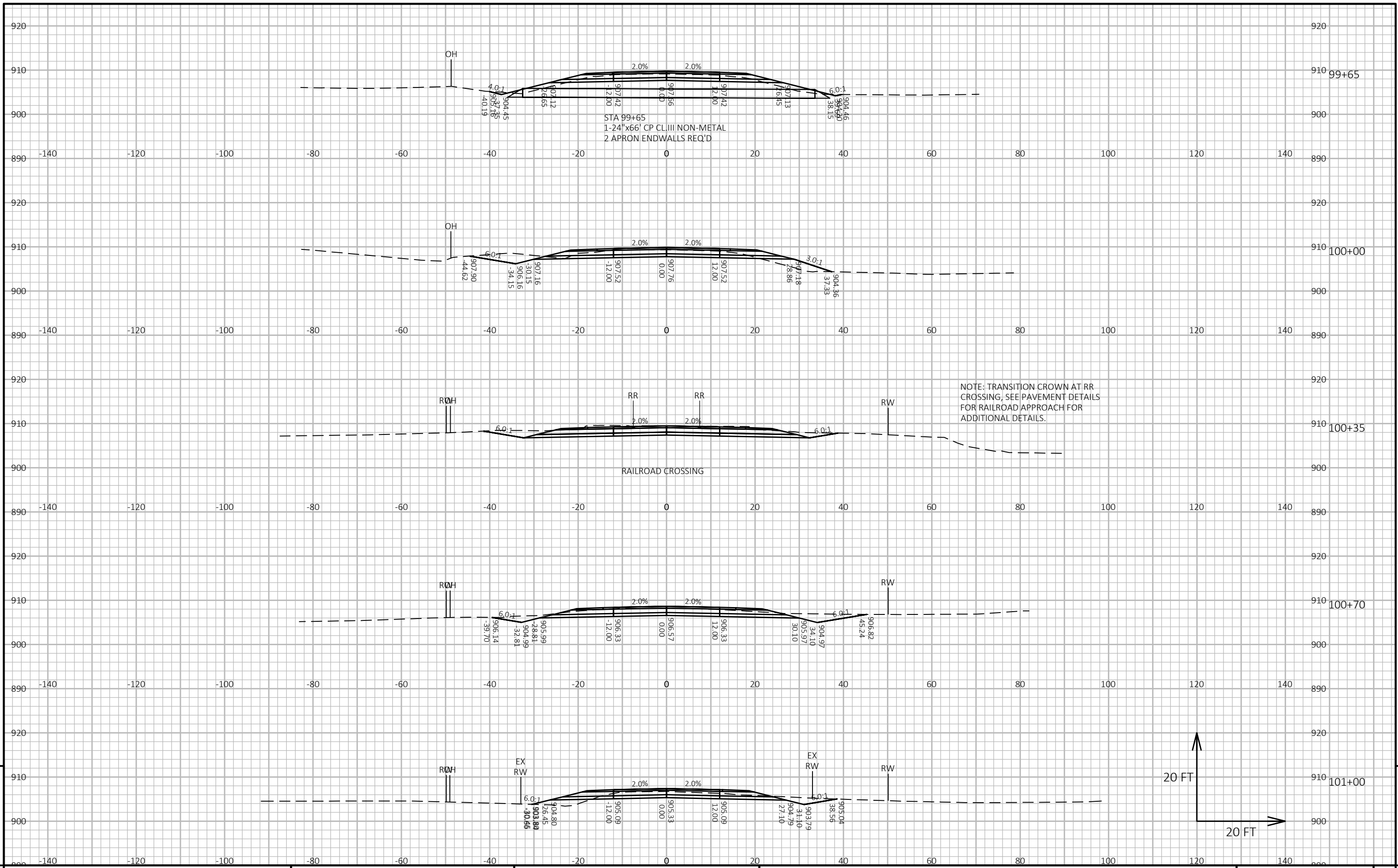


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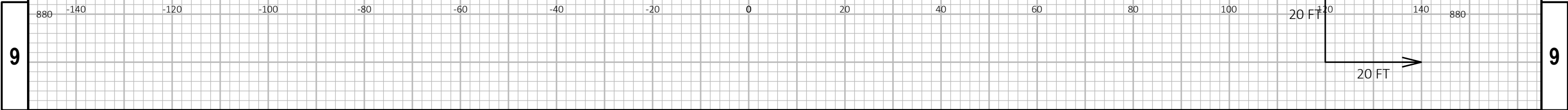
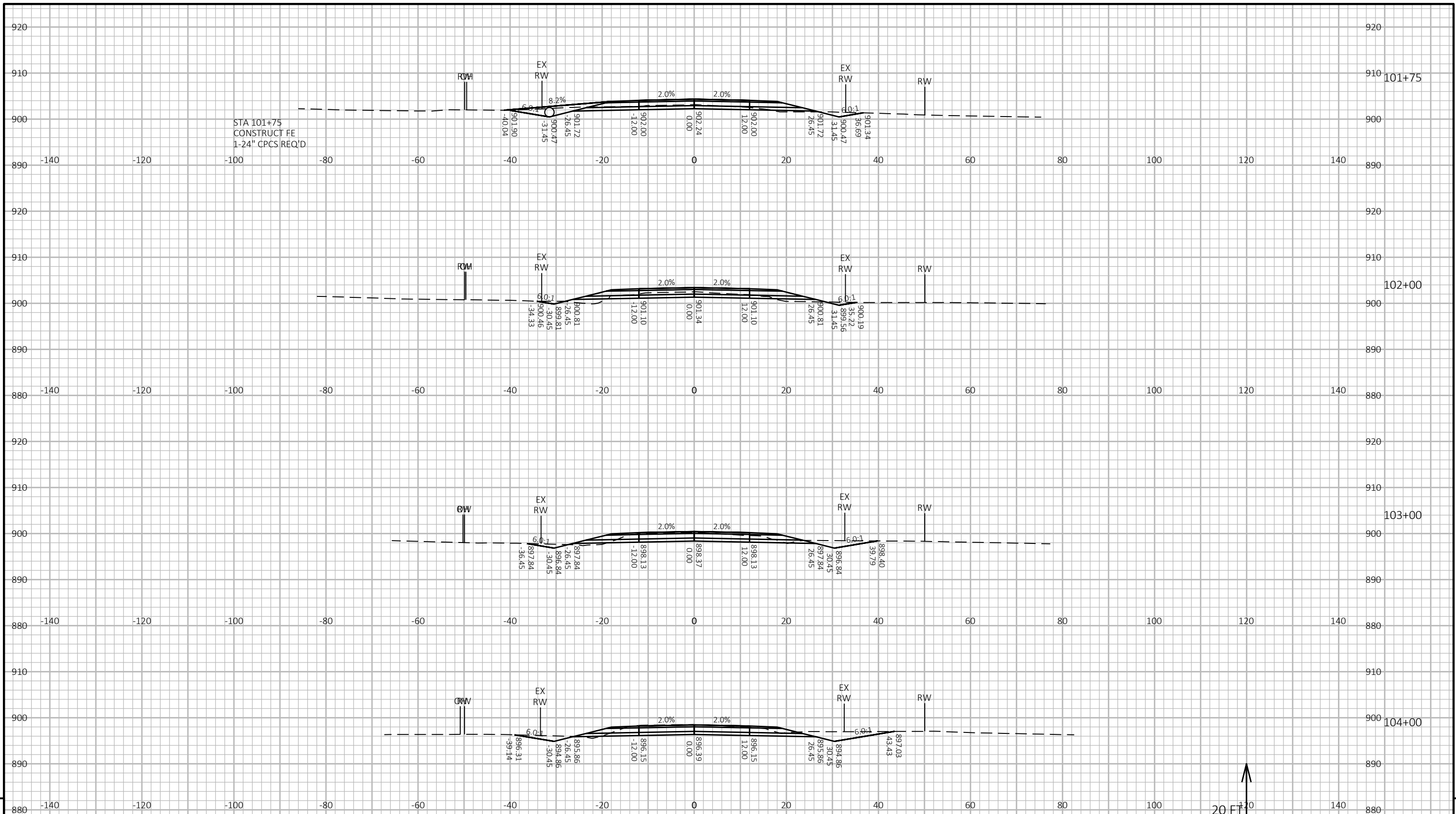
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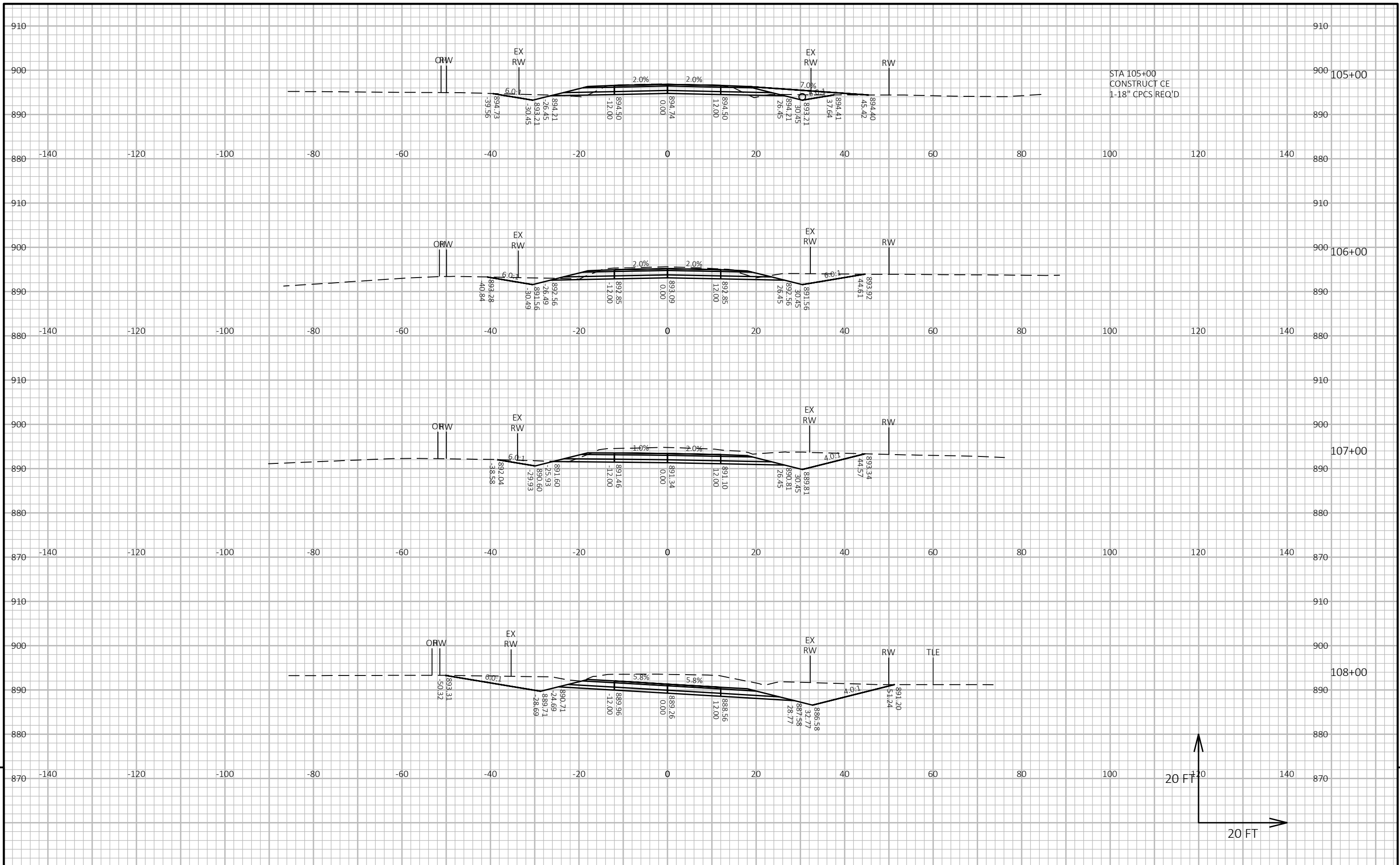
PROJECT NO: 8758-00-72	HWY: CTH C	COUNTY: DOUGLAS	CROSS SECTIONS: CTH C	SHEET	E
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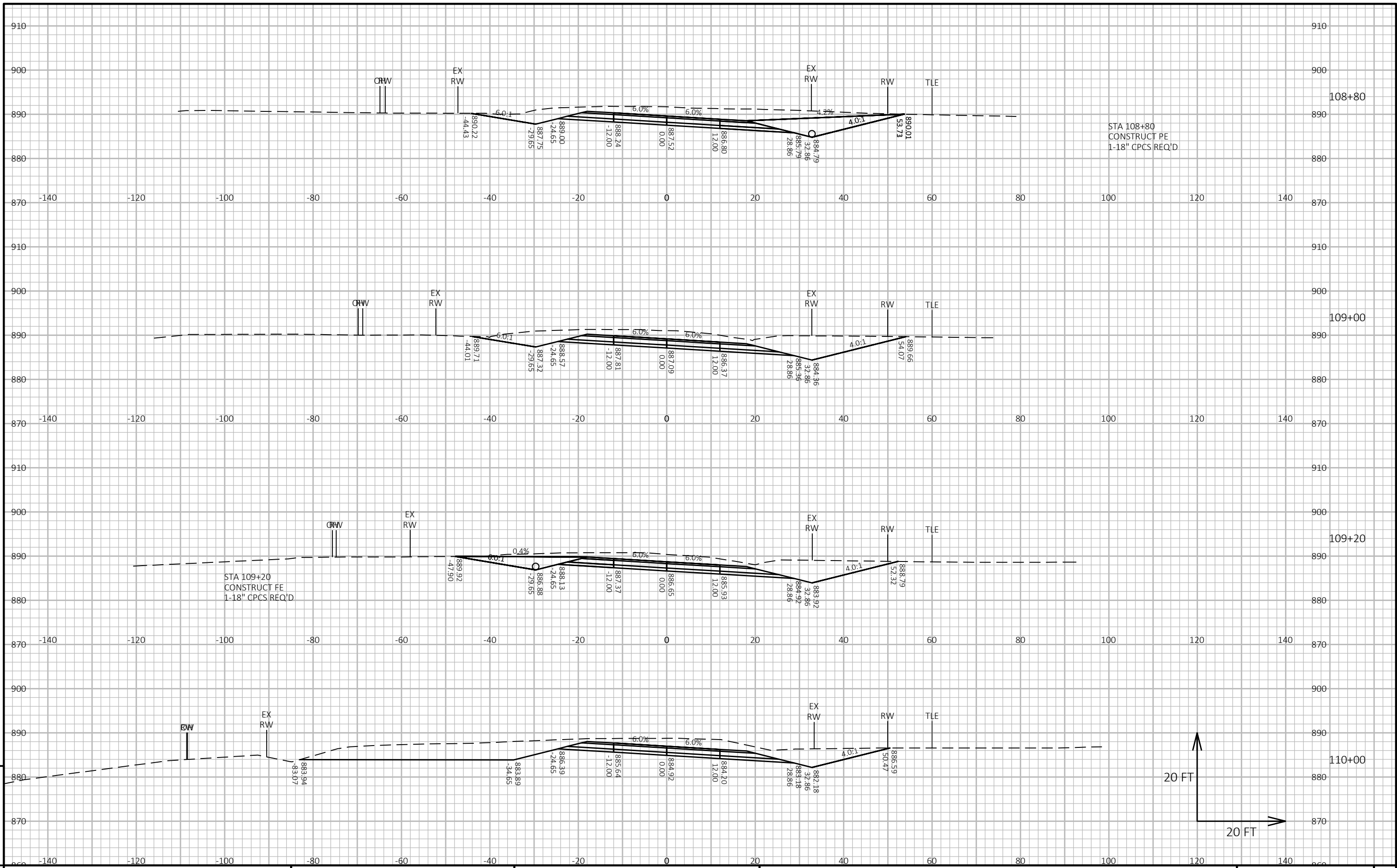
PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      CROSS SECTIONS: CTH C      SHEET 9



PROJECT NO: 8758-00-72	HWY: CTH C	COUNTY: DOUGLAS	CROSS SECTIONS: CTH C	SHEET 9
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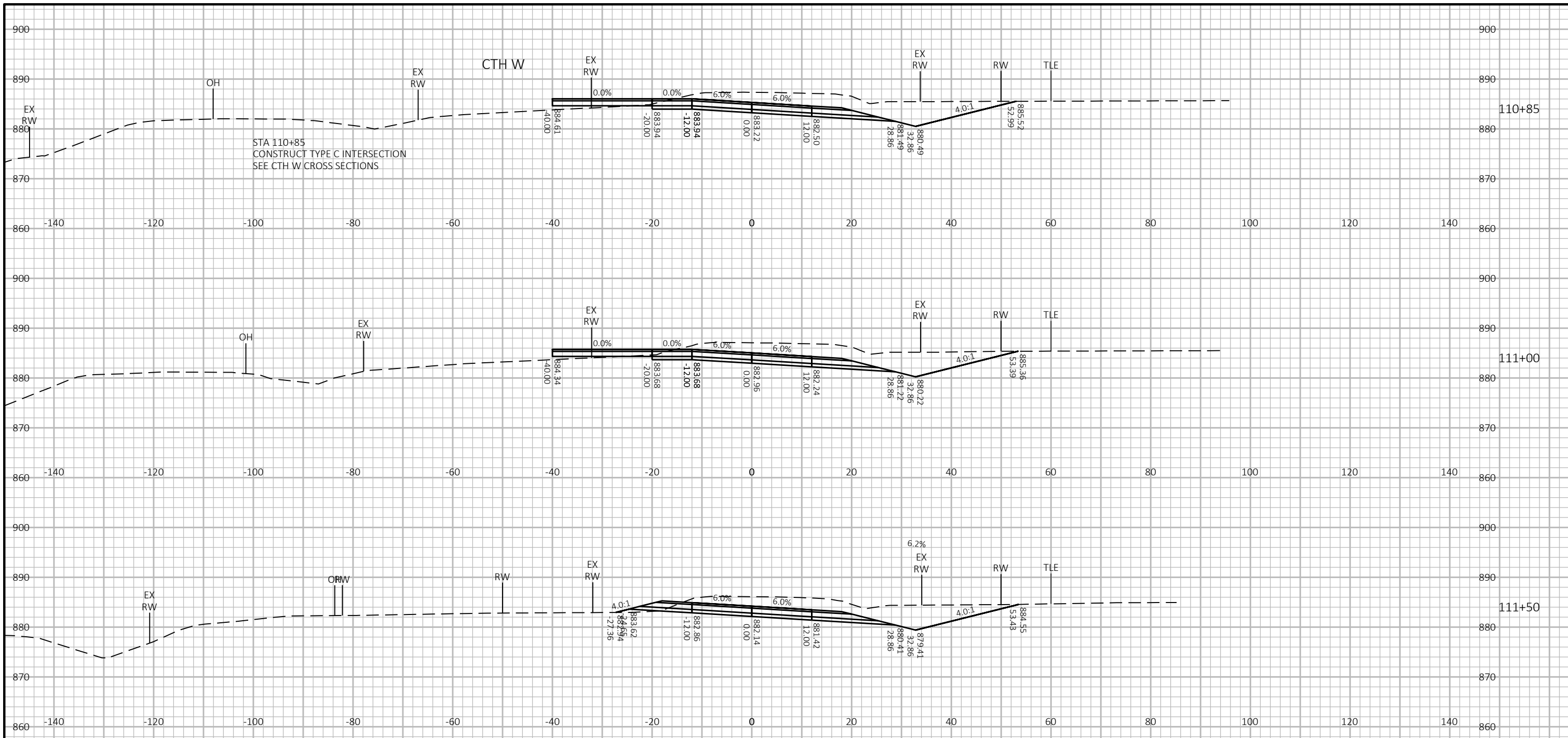
PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      CROSS SECTIONS: CTH C      SHEET 9



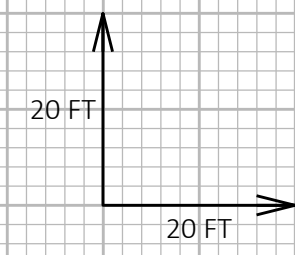
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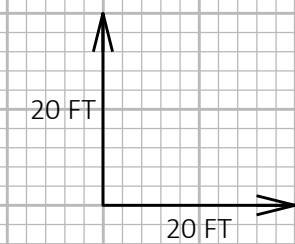
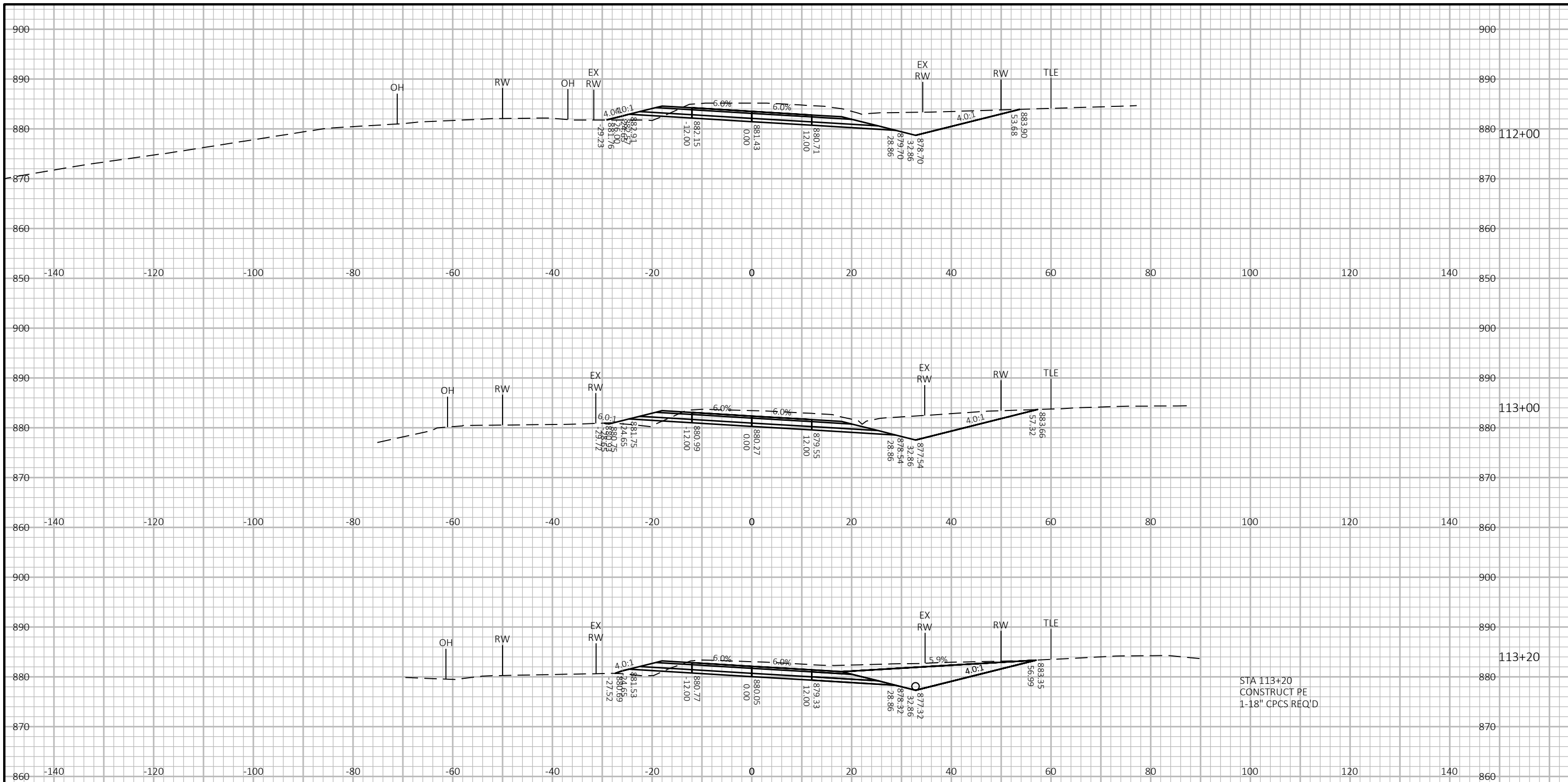
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STA 110+85  
CONSTRUCT TYPE C INTERSECTION  
SEE CTH W CROSS SECTIONS

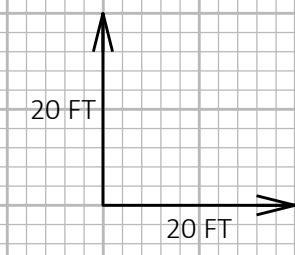
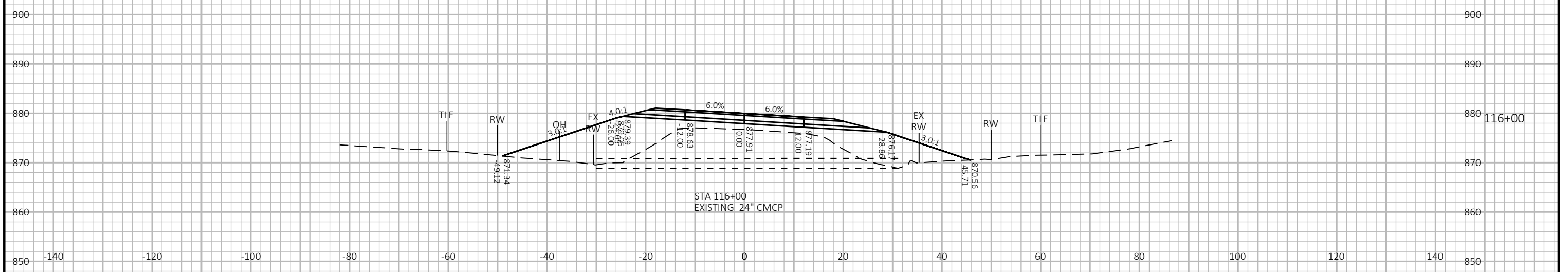
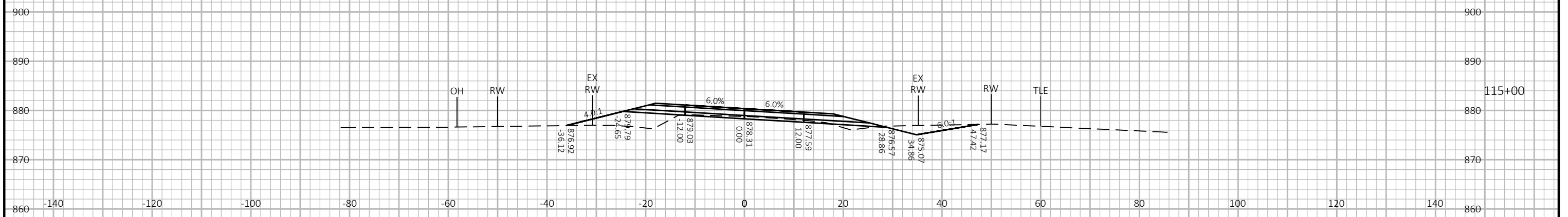
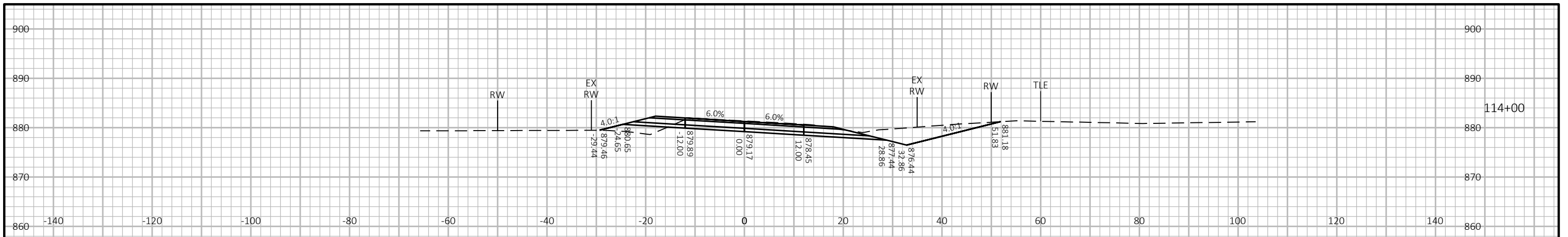


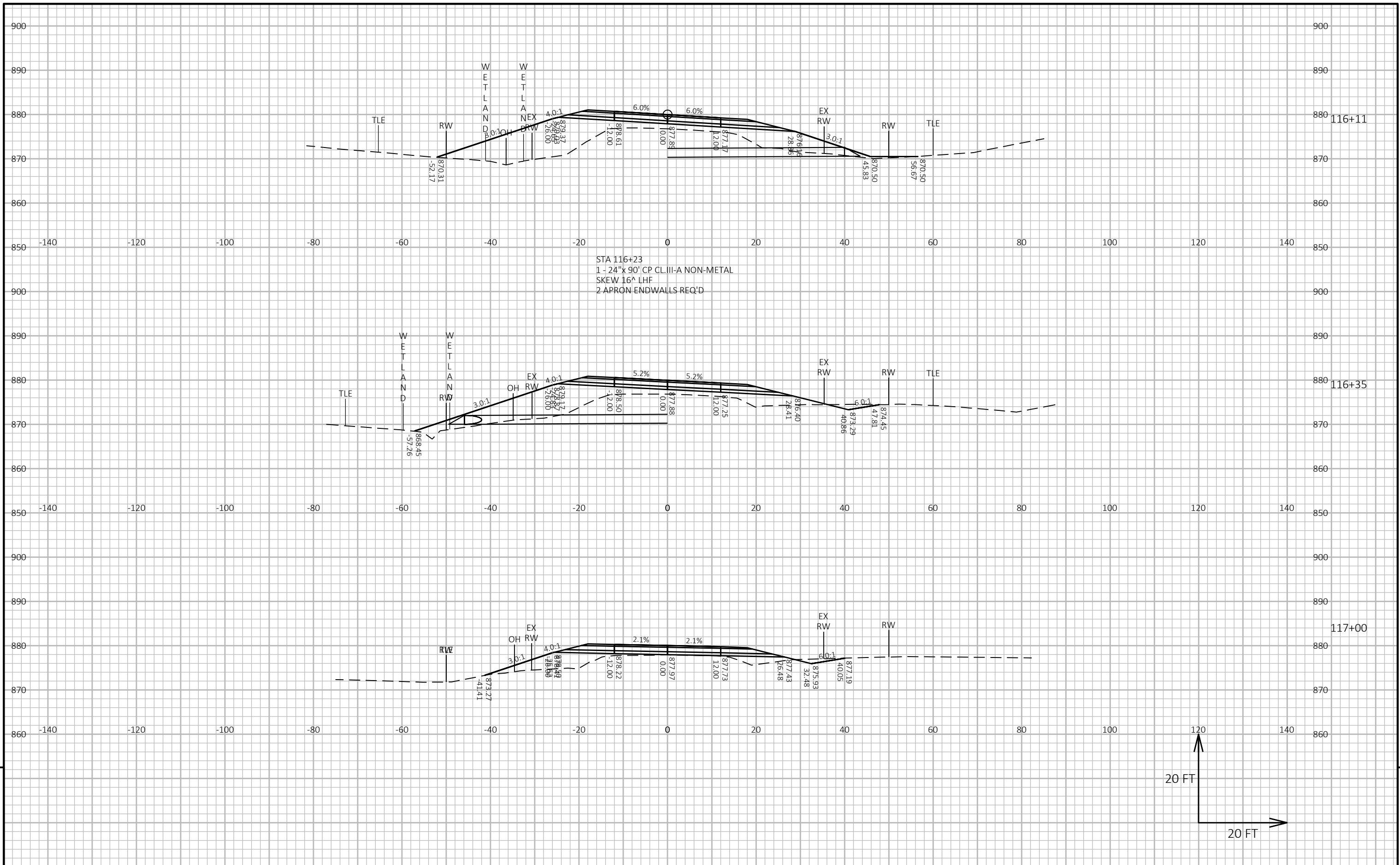


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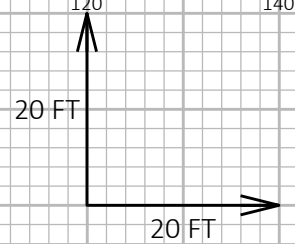
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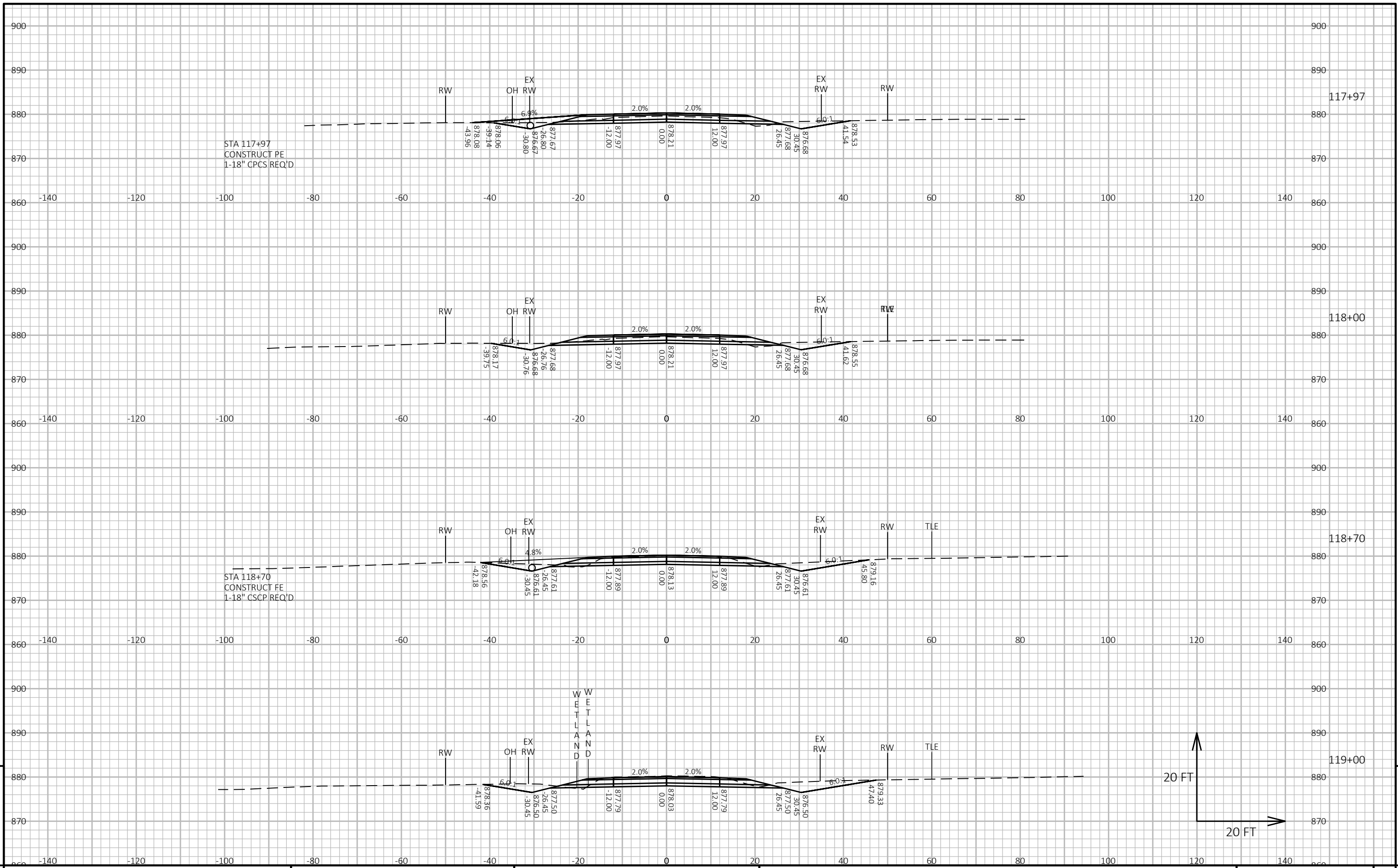
PROJECT NO: 8758-00-72	HWY: CTH C	COUNTY: DOUGLAS	CROSS SECTIONS: CTH C	SHEET	E
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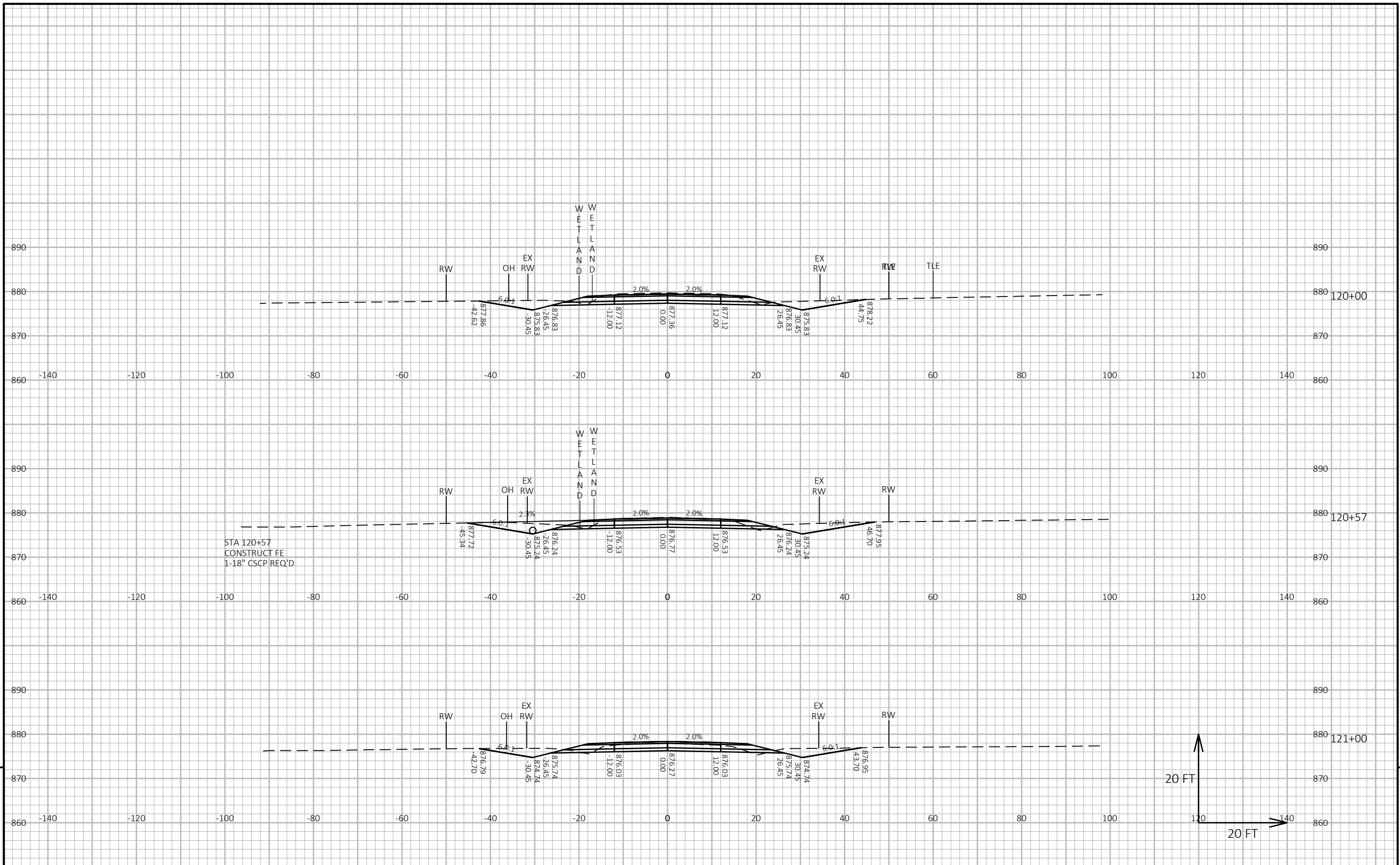


STA 116+23  
 1 - 24" x 90' CP CL. III-A NON-METAL  
 SKEW 16° LHF  
 2 APRON ENDWALLS REQ'D

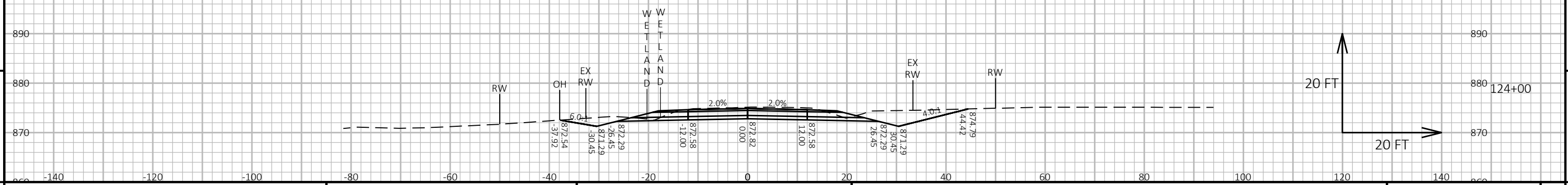
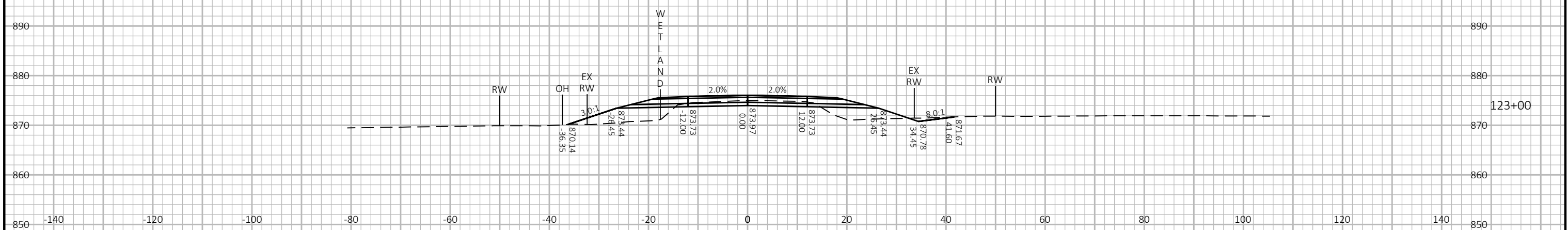
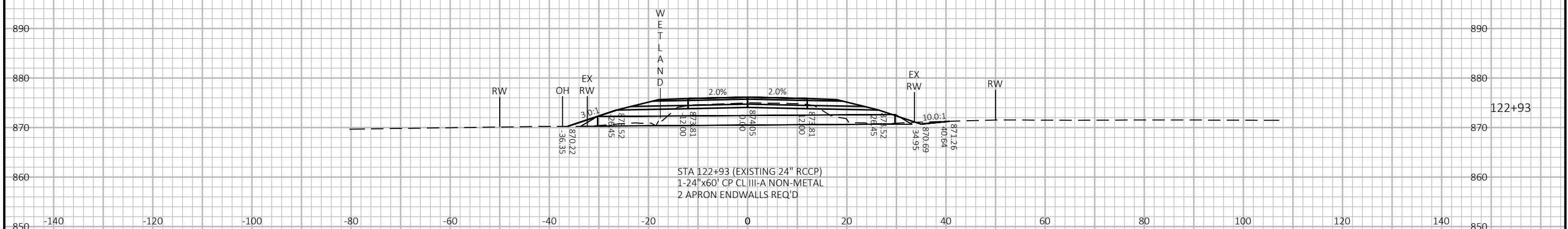
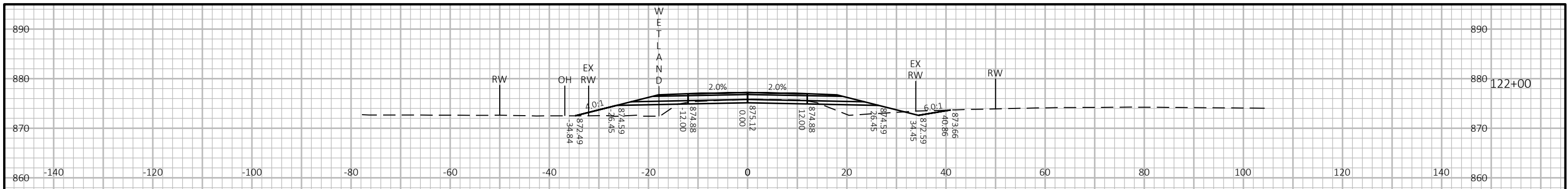




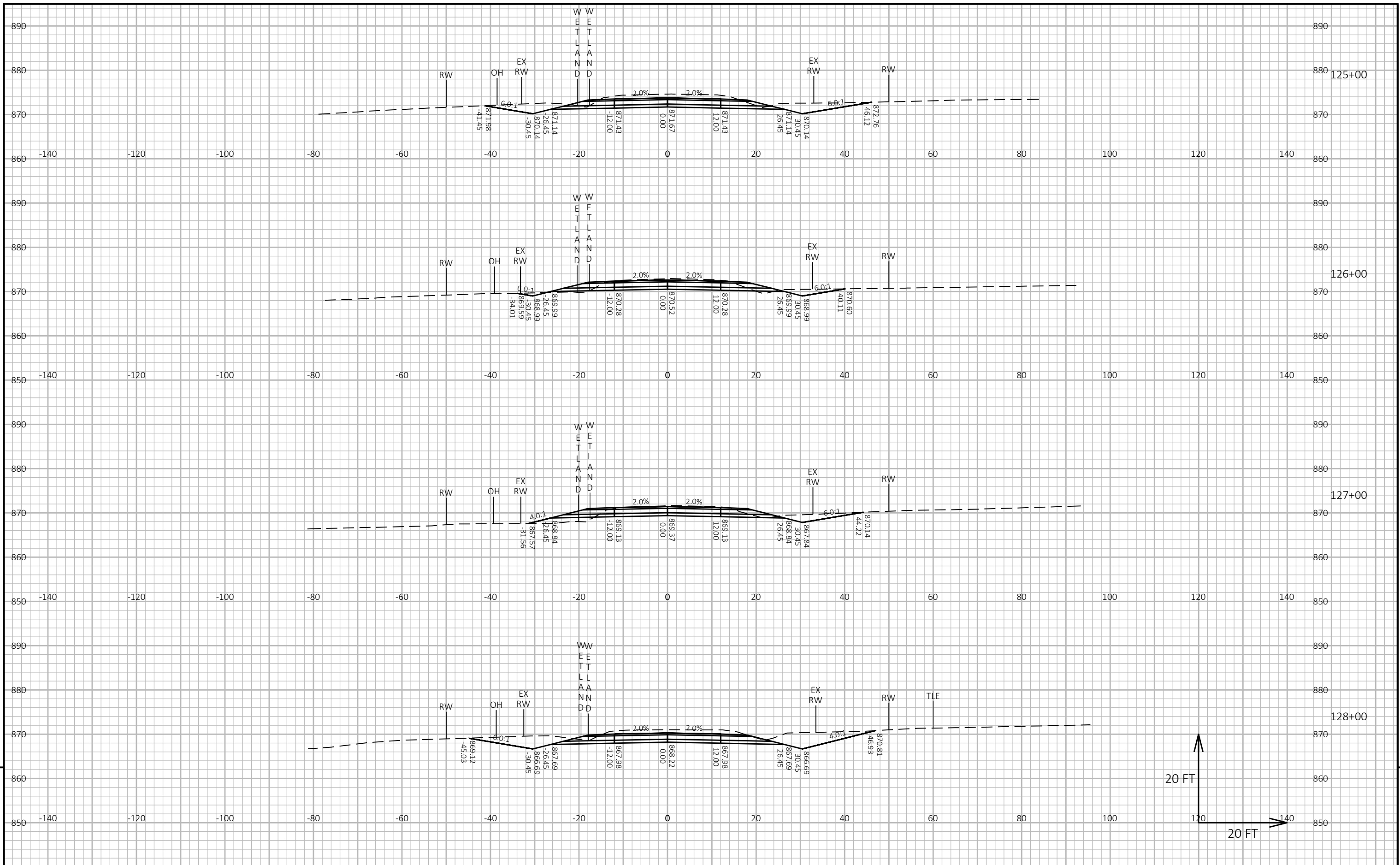
PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      CROSS SECTIONS: CTH C      SHEET 9



PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      CROSS SECTIONS: CTH C      SHEET      E

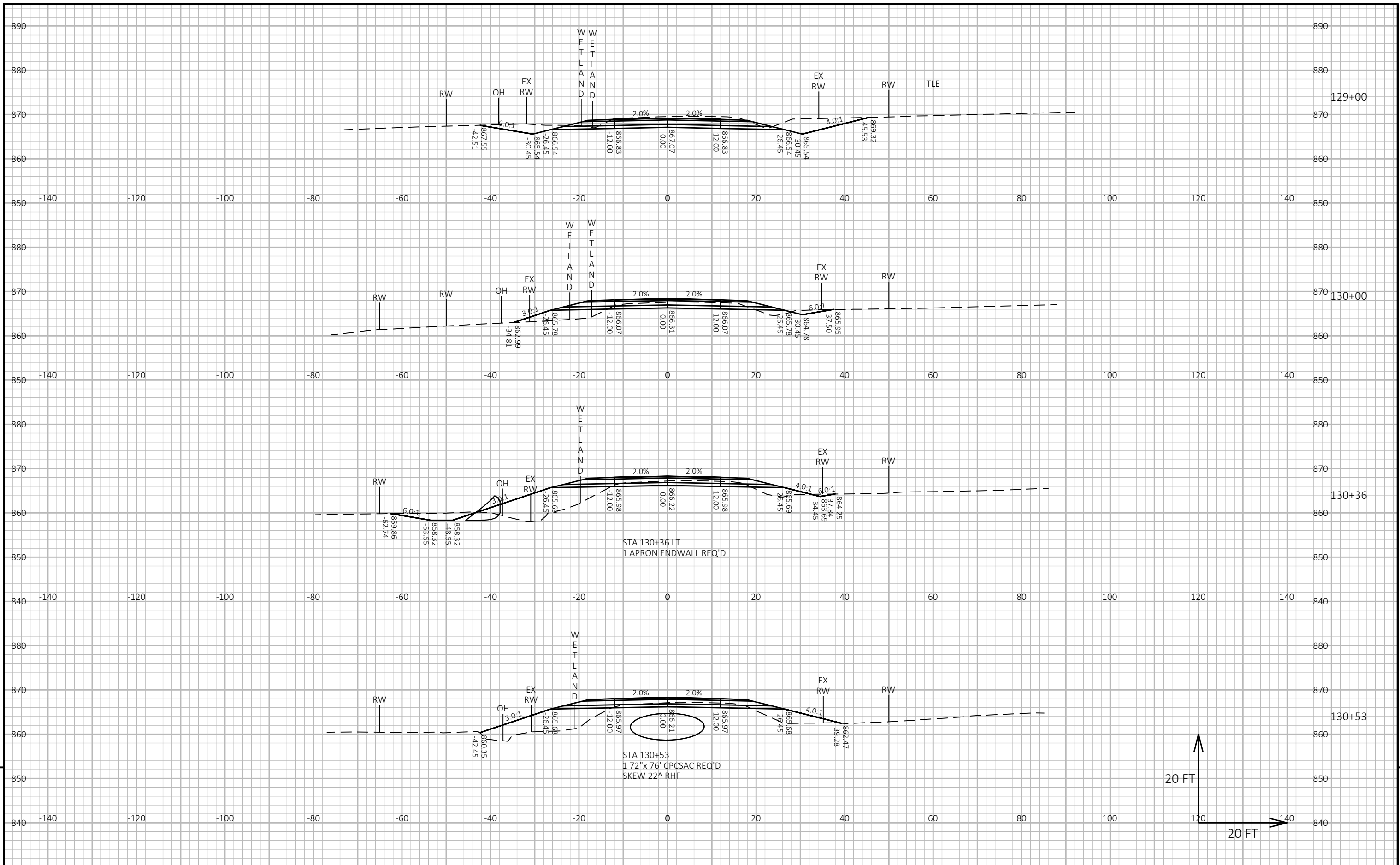


PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      CROSS SECTIONS: CTH C      SHEET 9

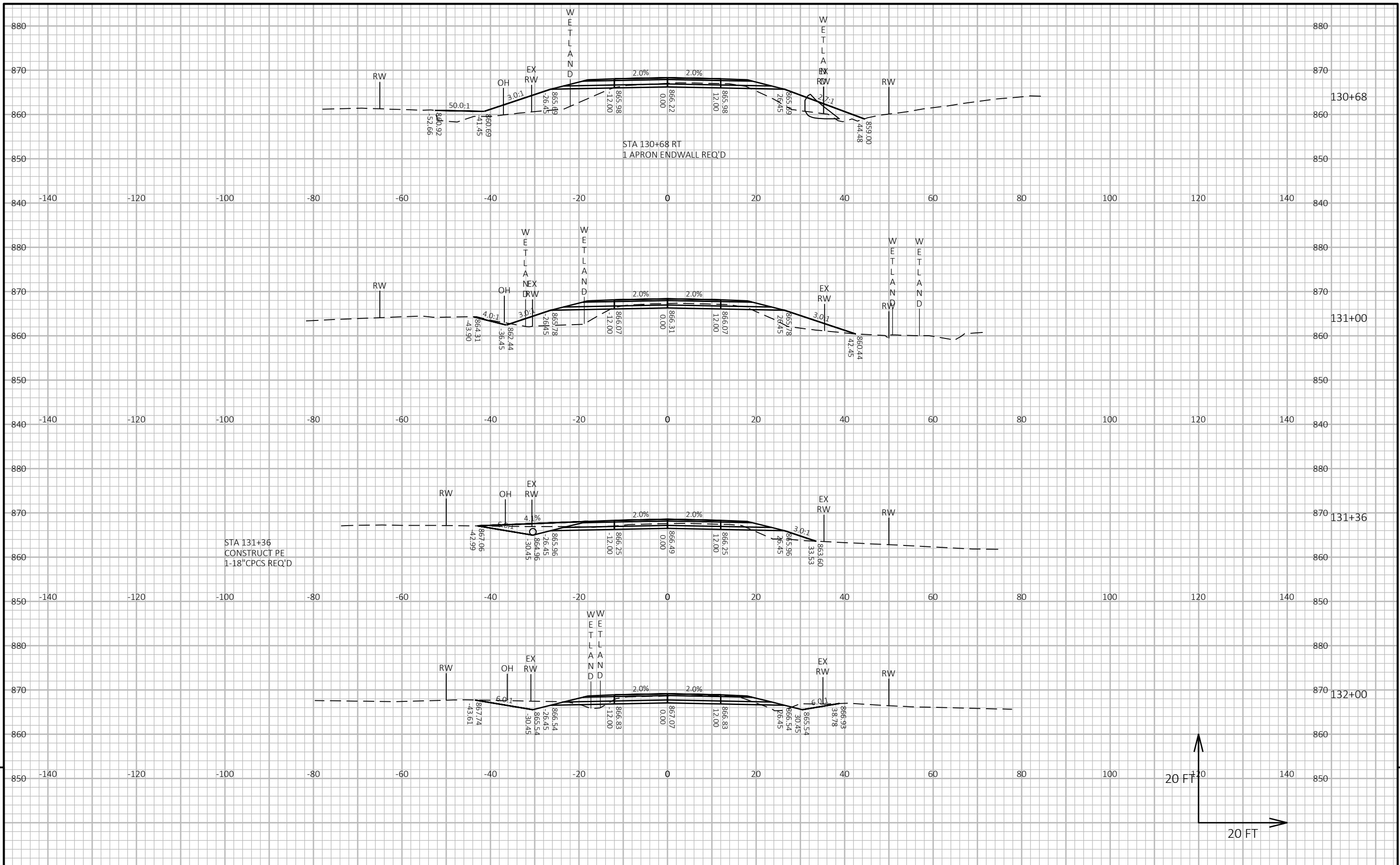


PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      CROSS SECTIONS: CTH C      SHEET 9

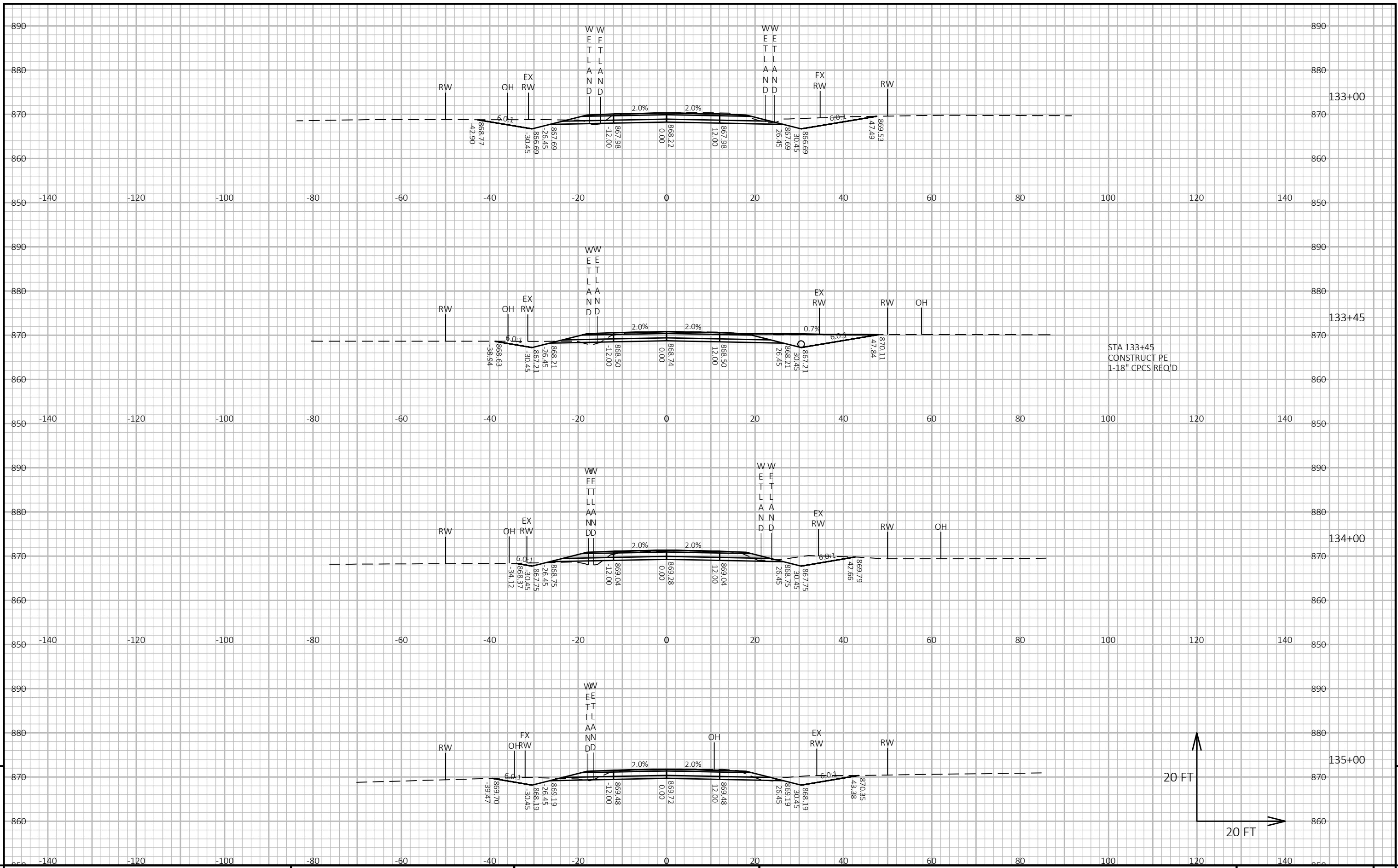




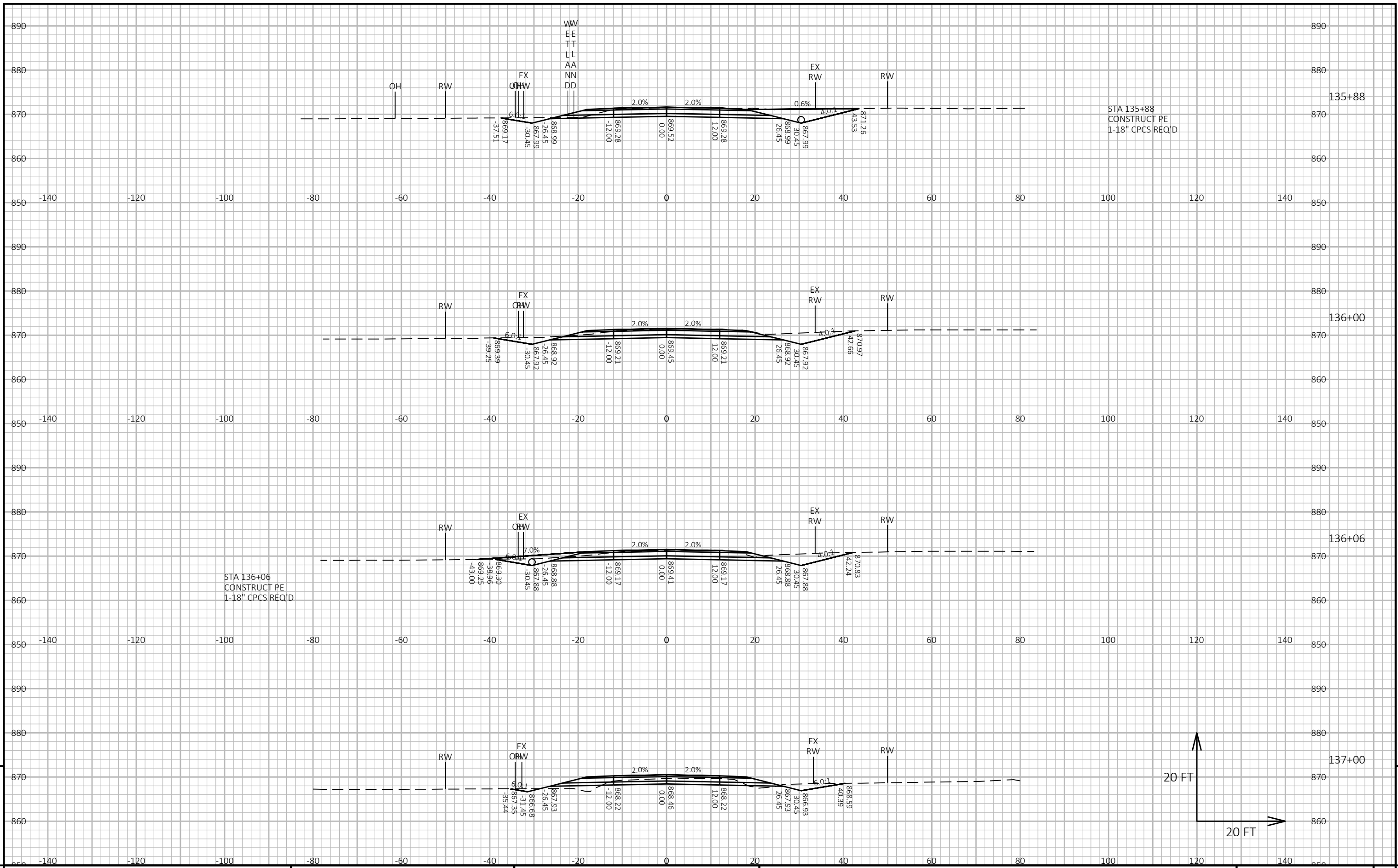
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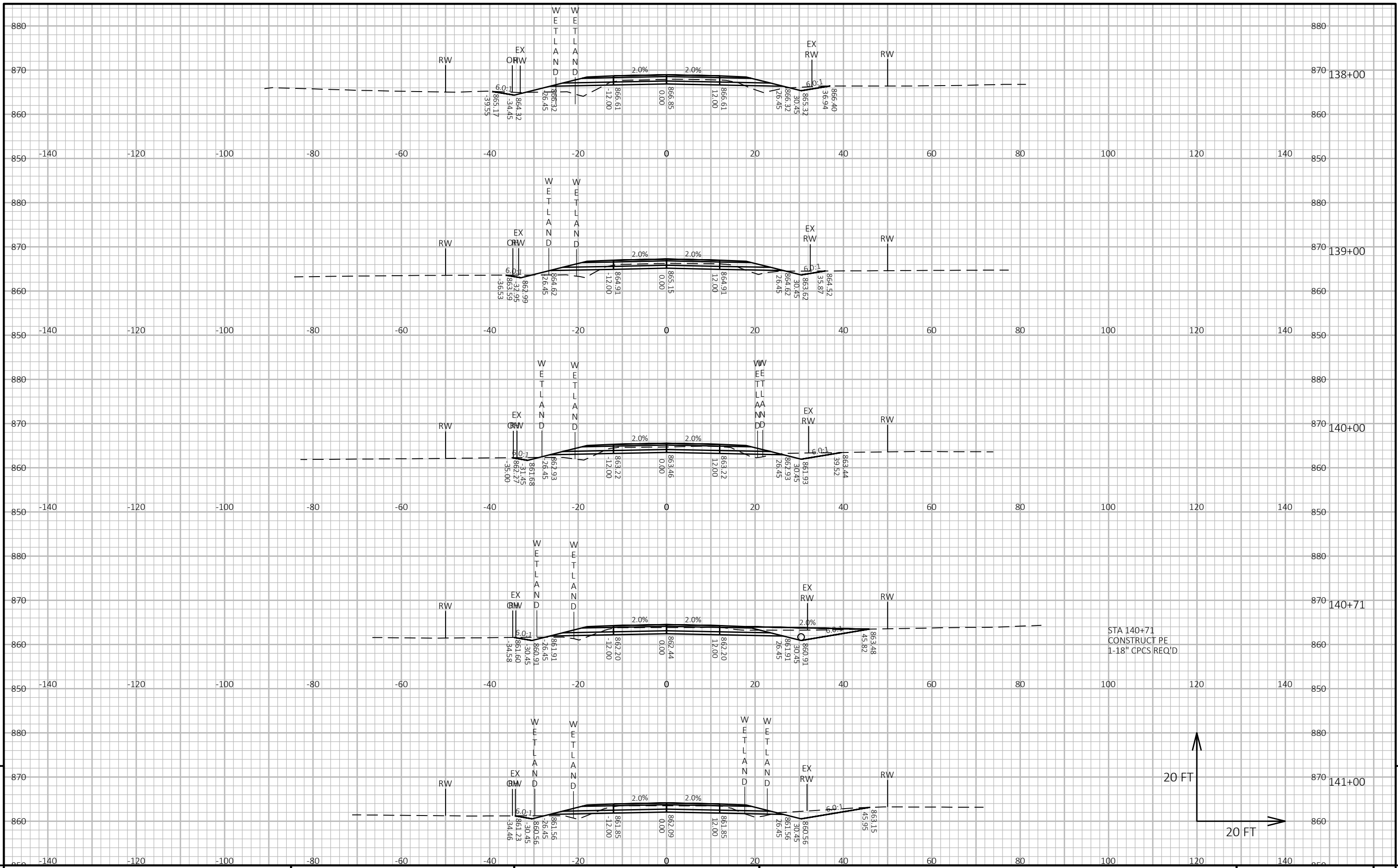
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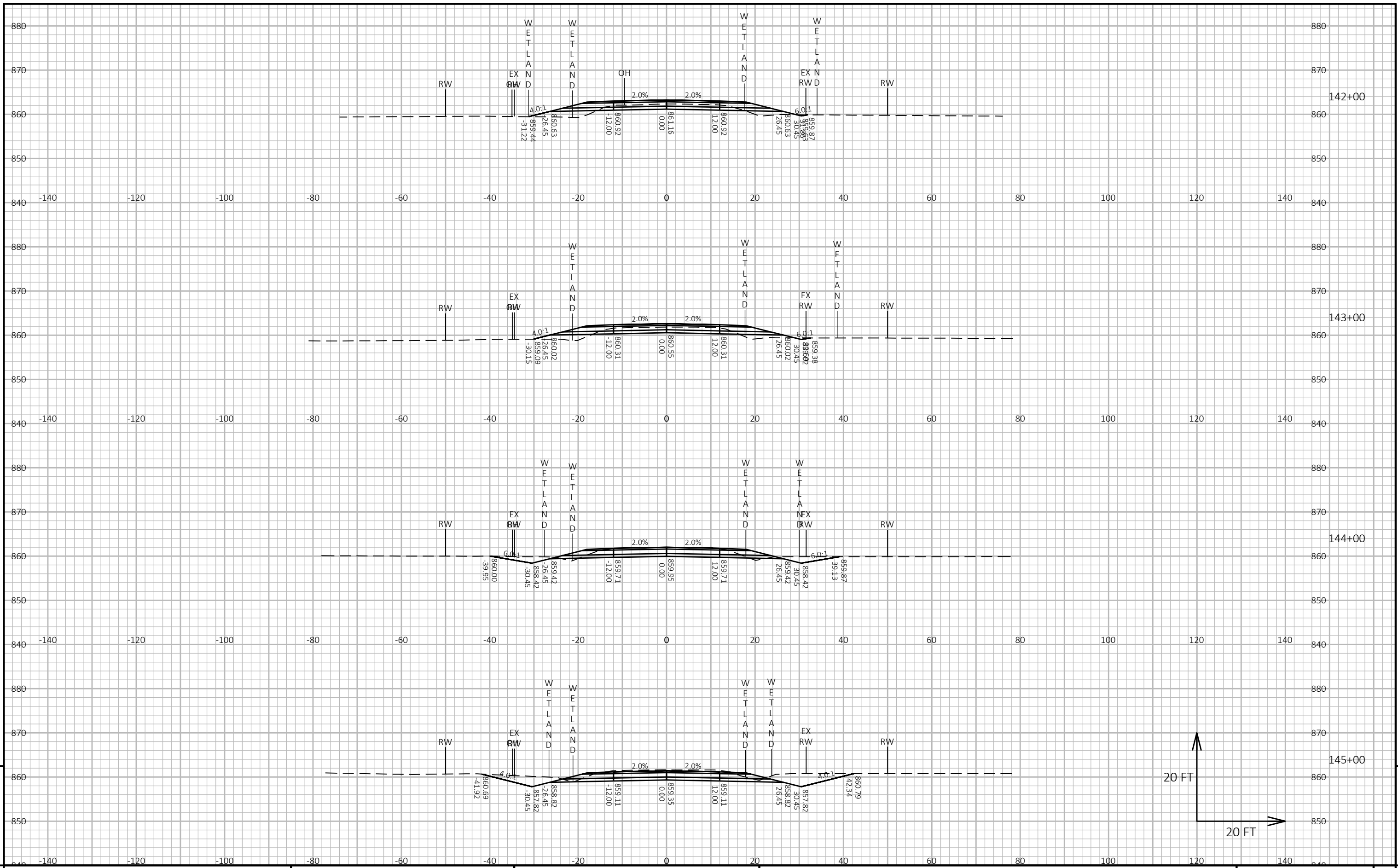
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PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      CROSS SECTIONS: CTH C      SHEET **E**



PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      CROSS SECTIONS: CTH C      SHEET 9

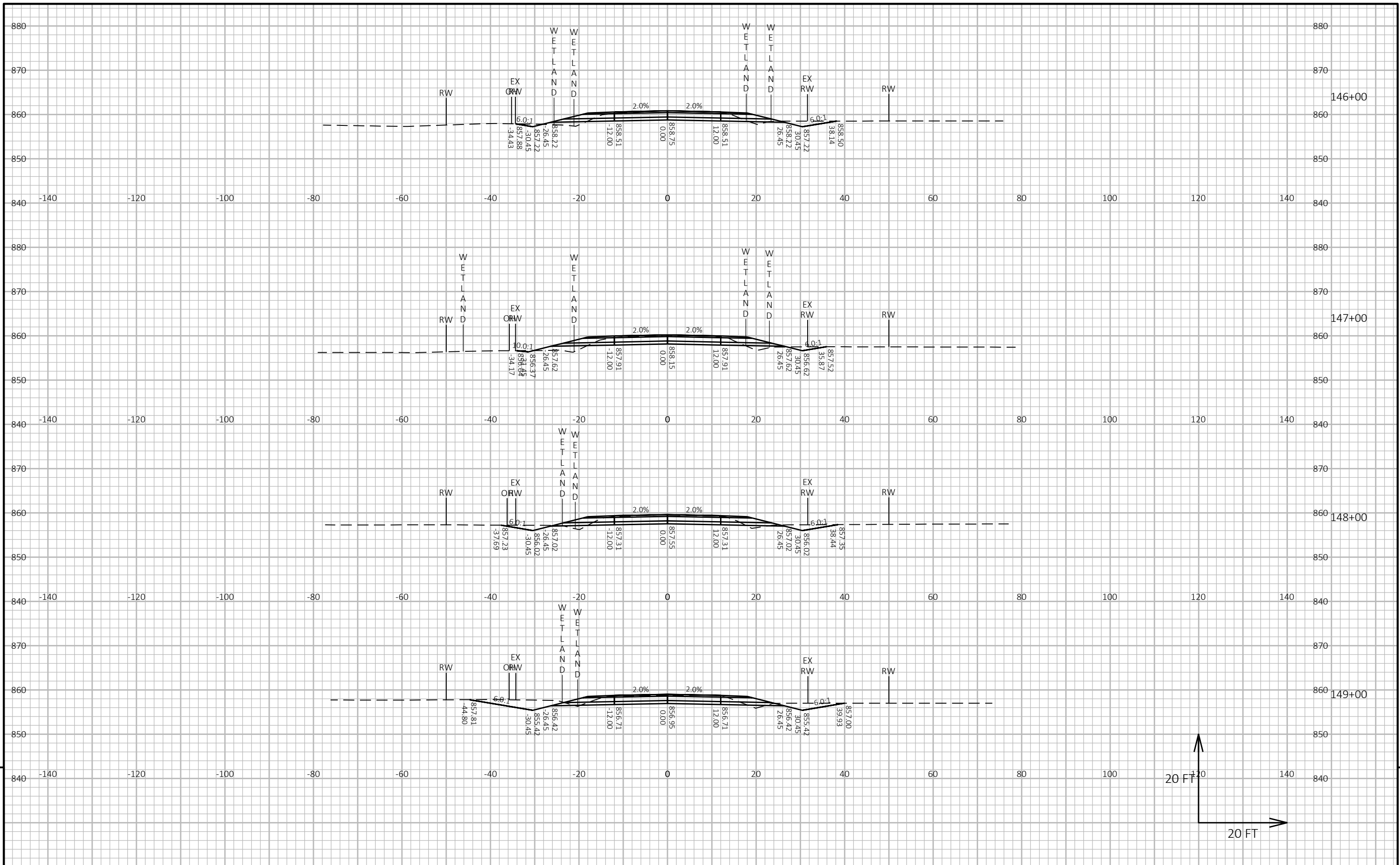


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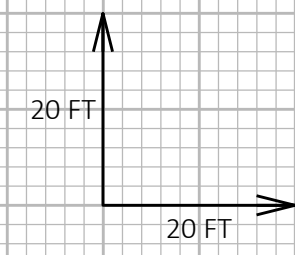
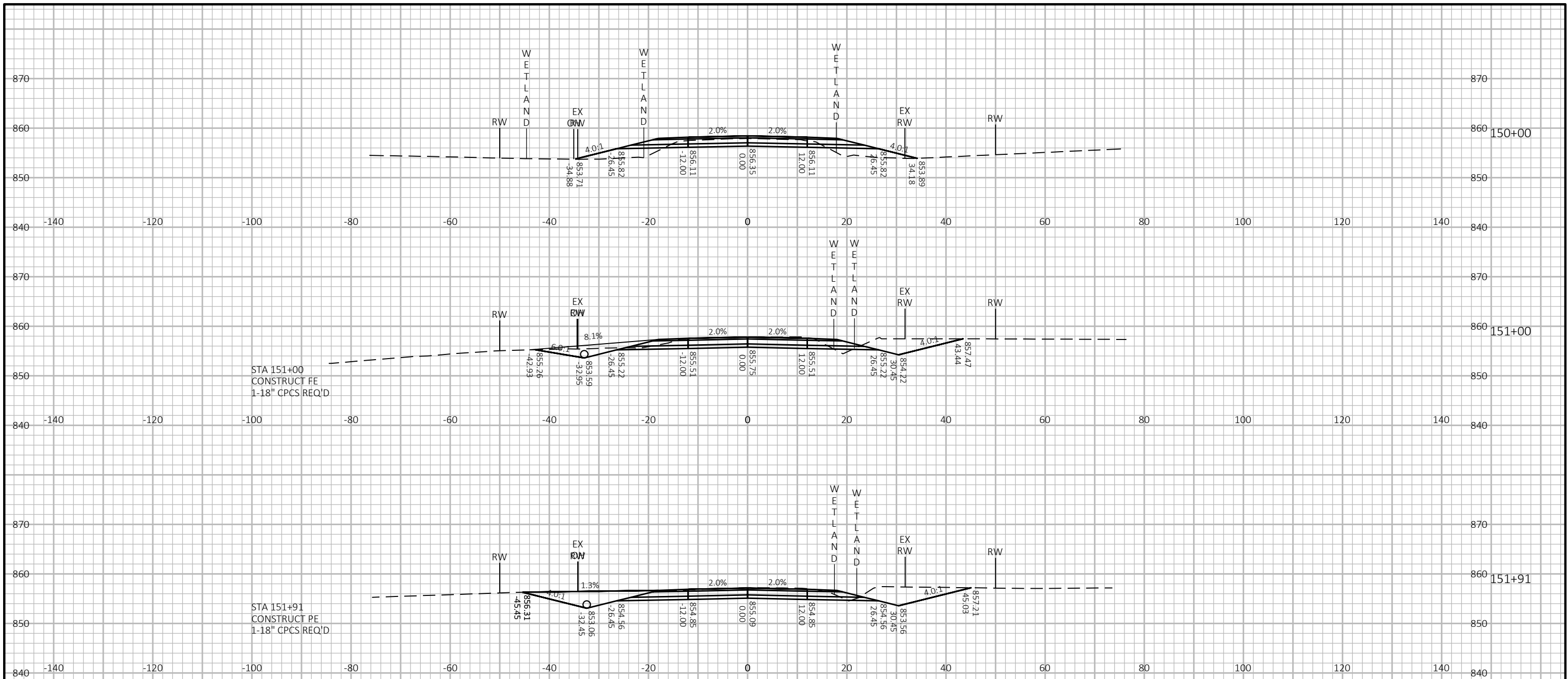
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PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      CROSS SECTIONS: CTH C      SHEET      E

FILE NAME: I:\410789\_DOUGLAS CTH C\C3D\SHEETSPLAN\SEGMENT 1\090101-XS.DWG      PLOT DATE: 9/21/2023 8:15 AM      PLOT BY: HEDRINGTON, MARK      PLOT NAME:      PLOT SCALE: 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.      WISDOT/CADD SHEET 49



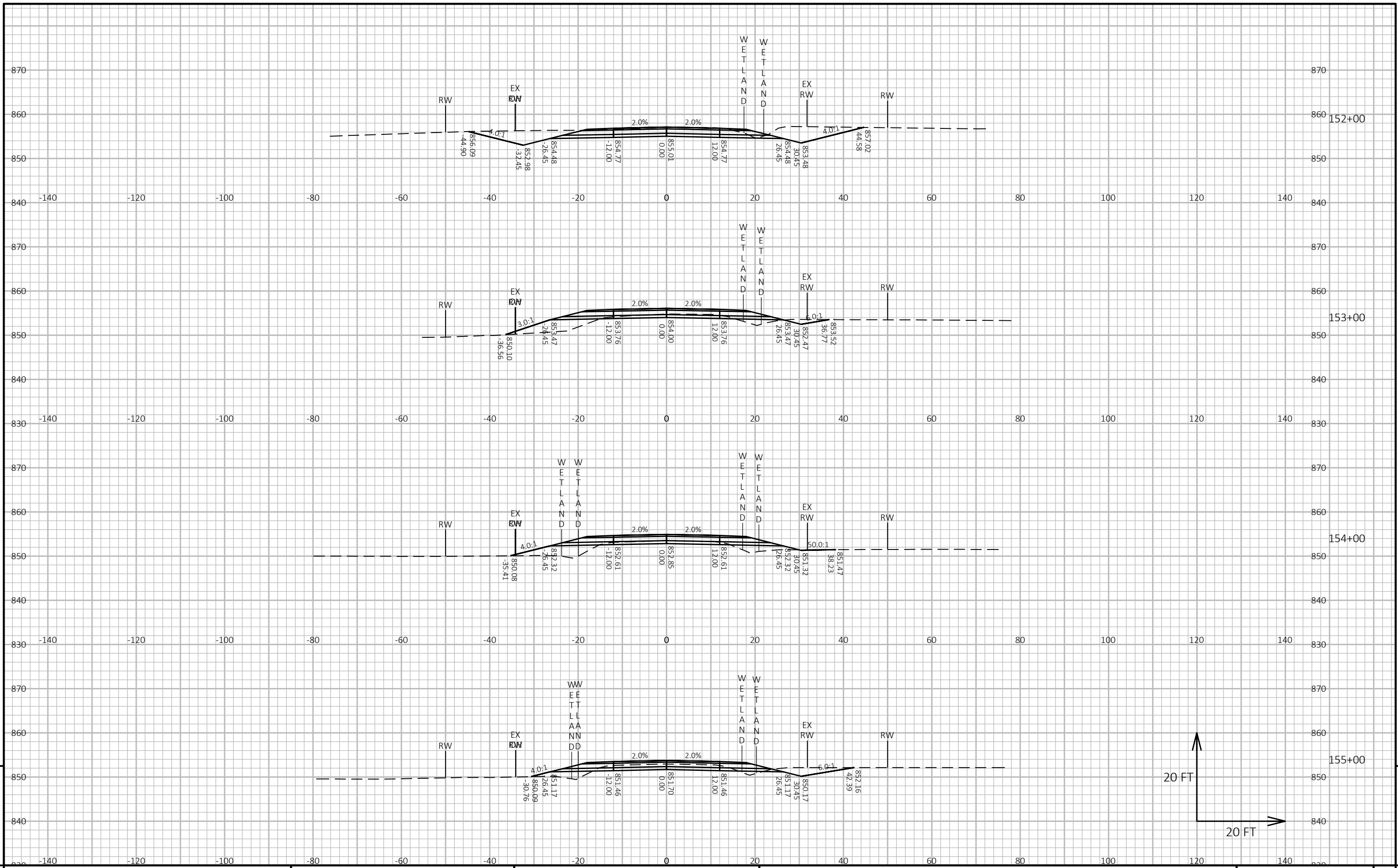
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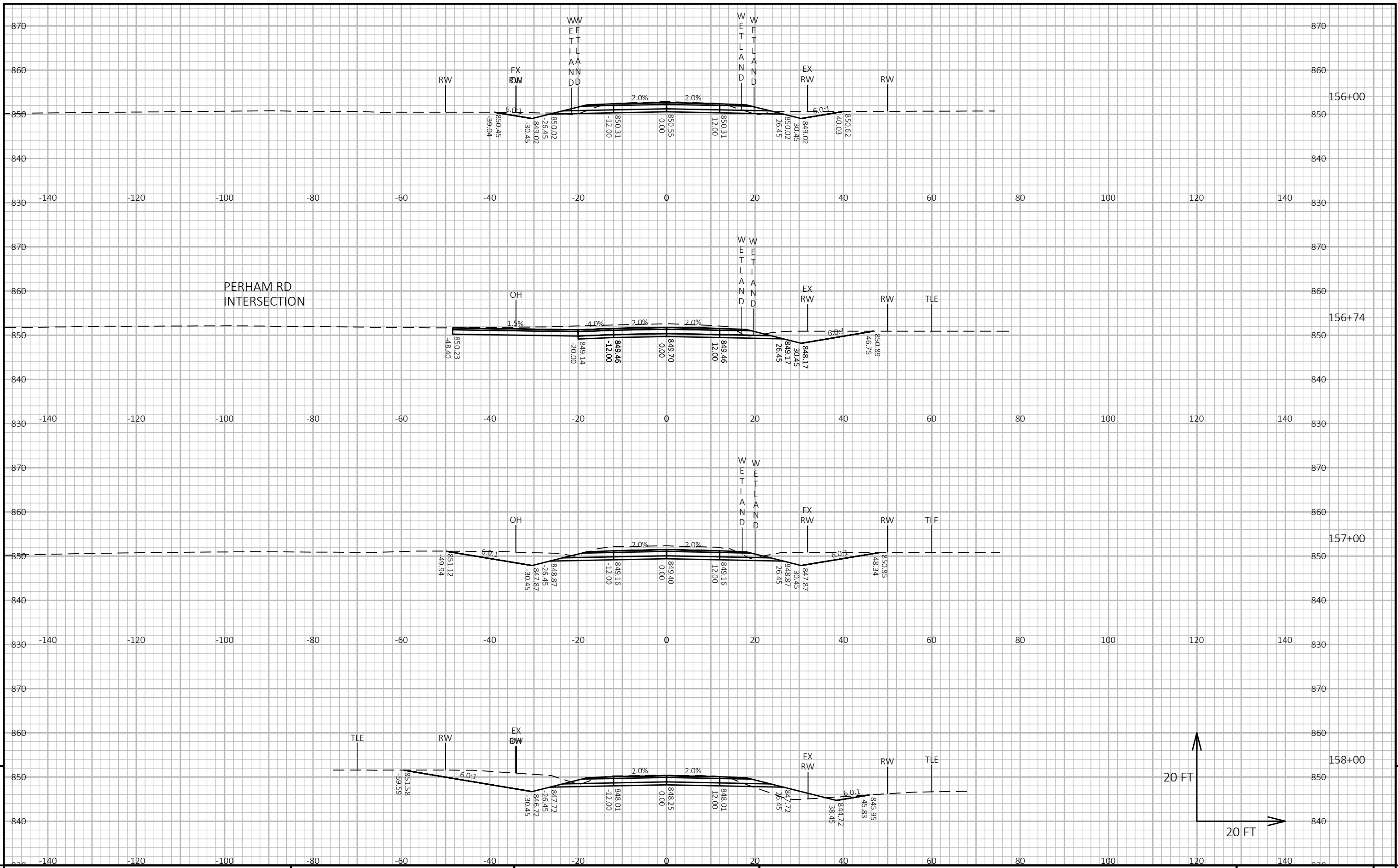
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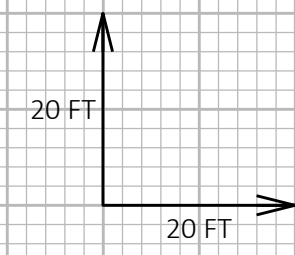
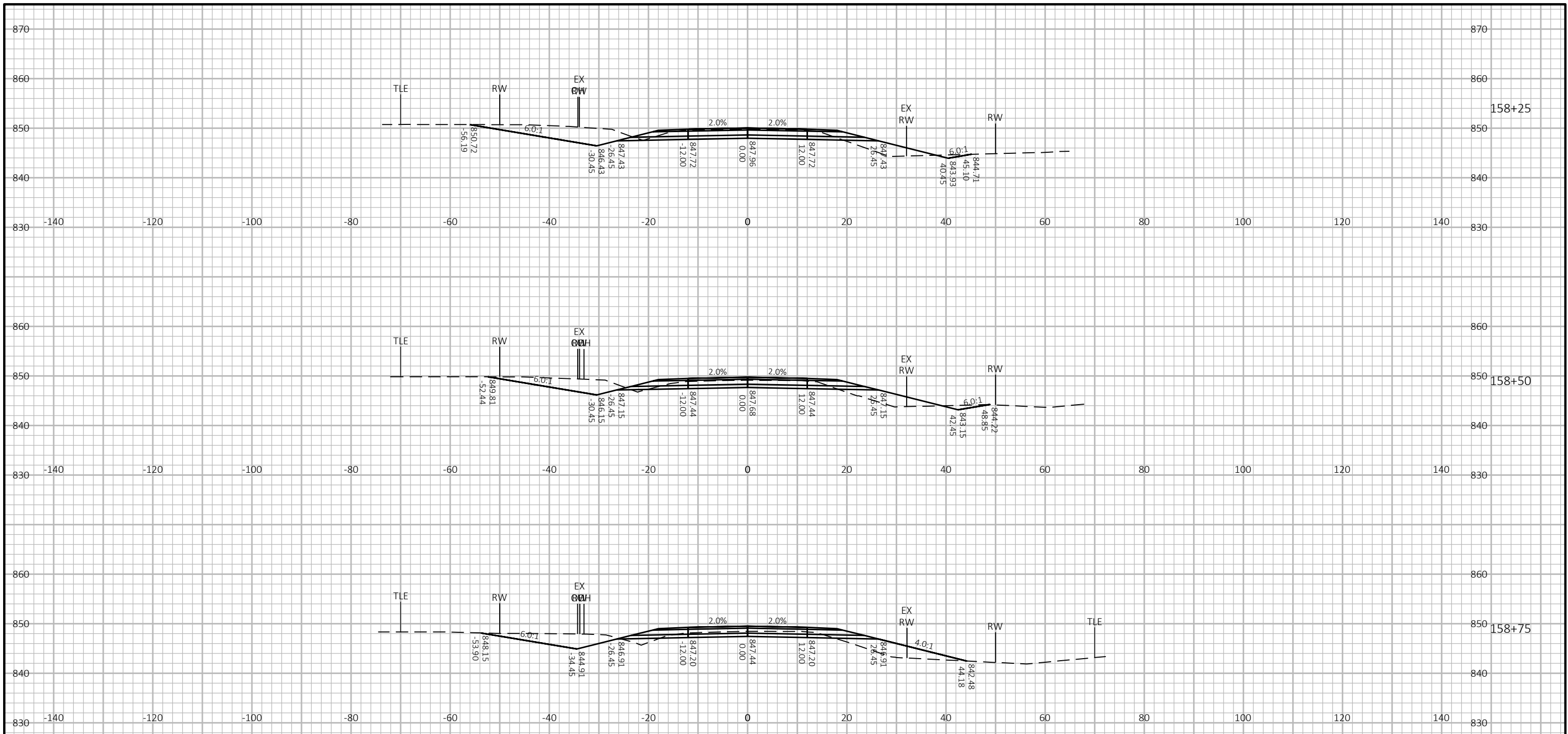




PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      CROSS SECTIONS: CTH C      SHEET      E



PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      CROSS SECTIONS: CTH C      SHEET 9

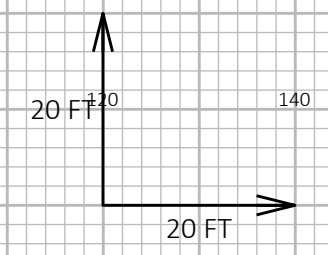
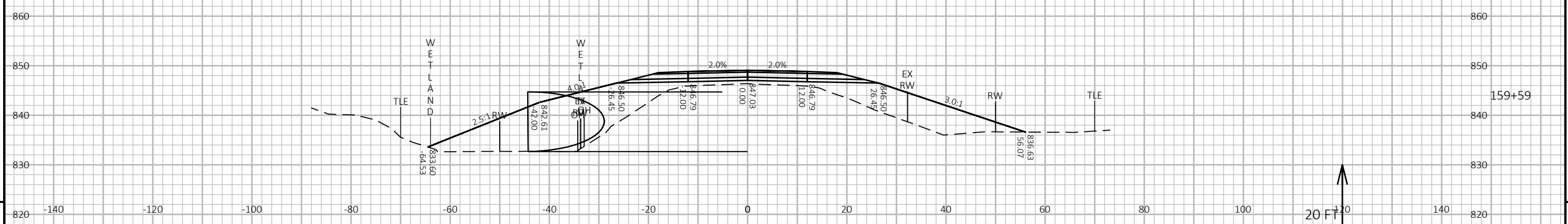
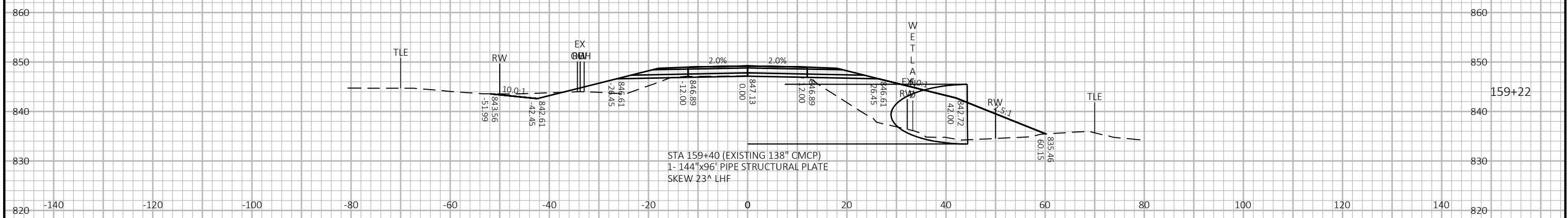
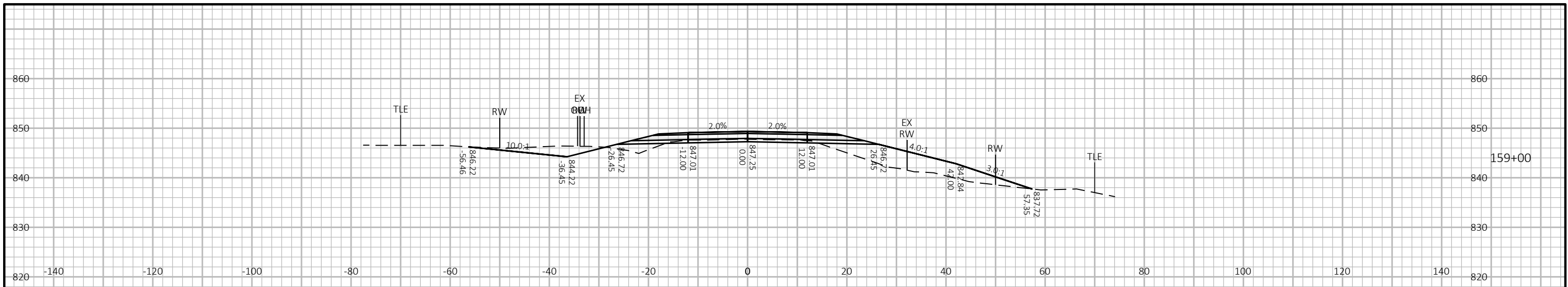


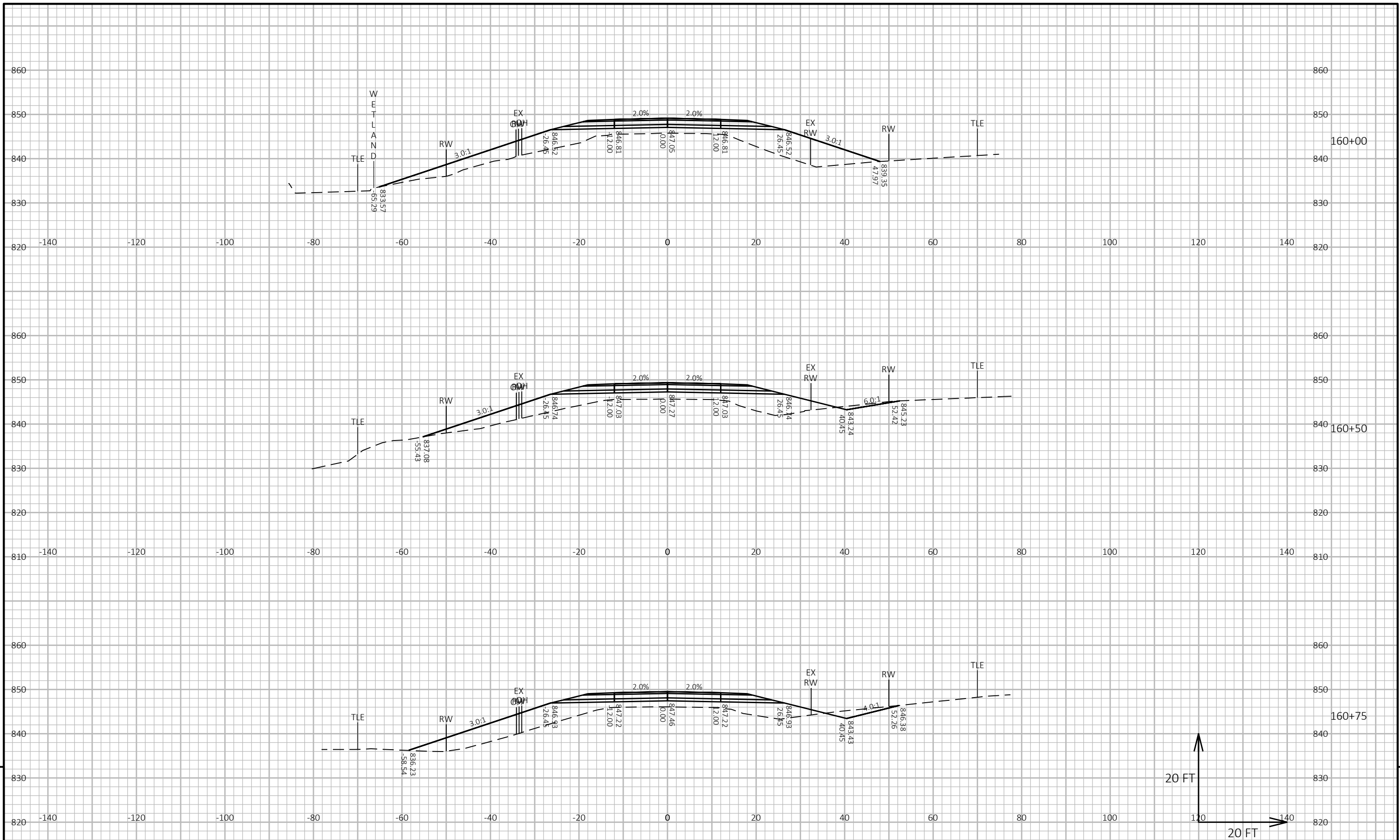
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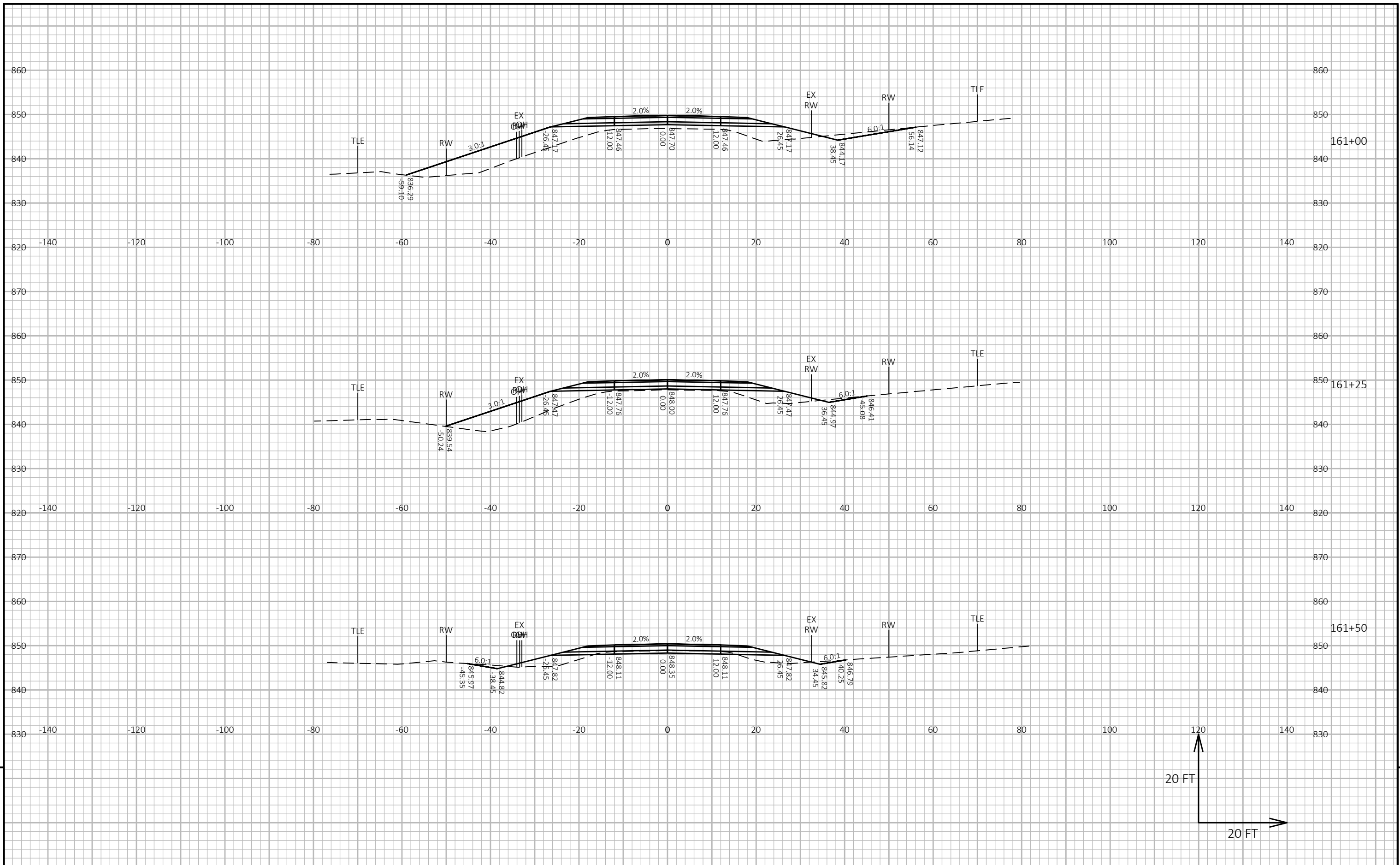
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PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      CROSS SECTIONS: CTH C      SHEET 9



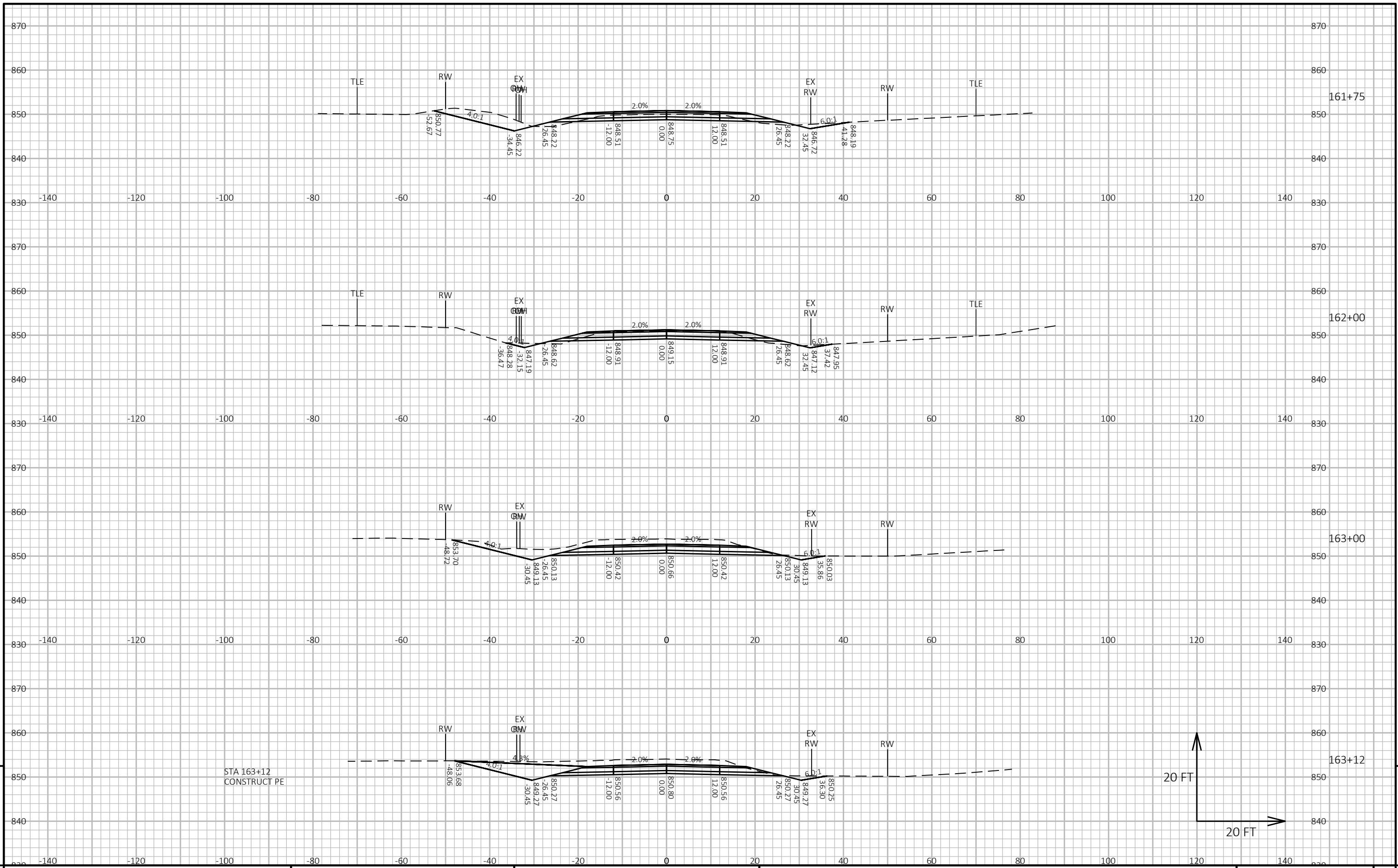
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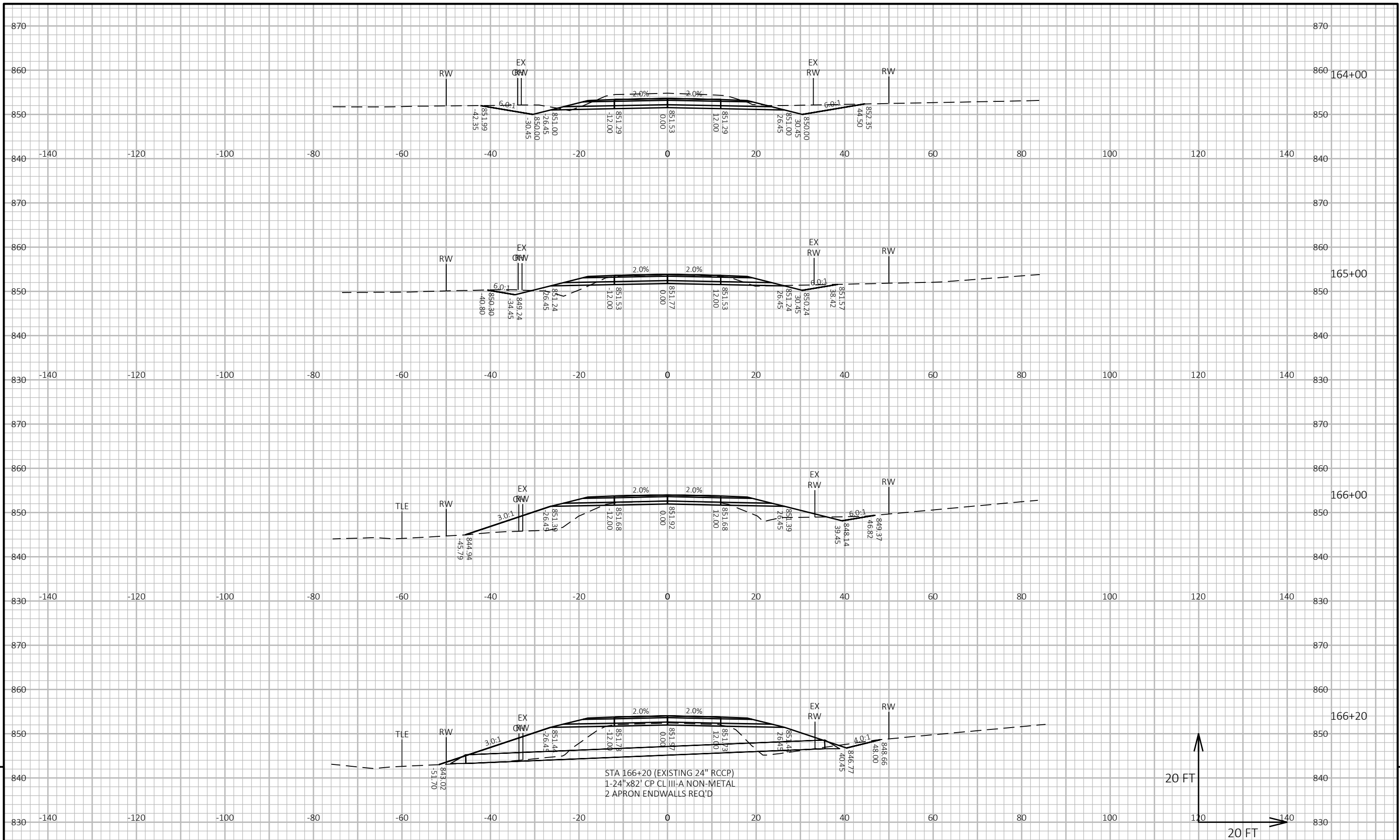
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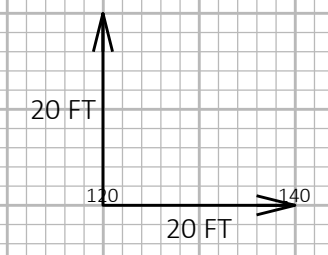
LAYOUT NAME - 0900-27



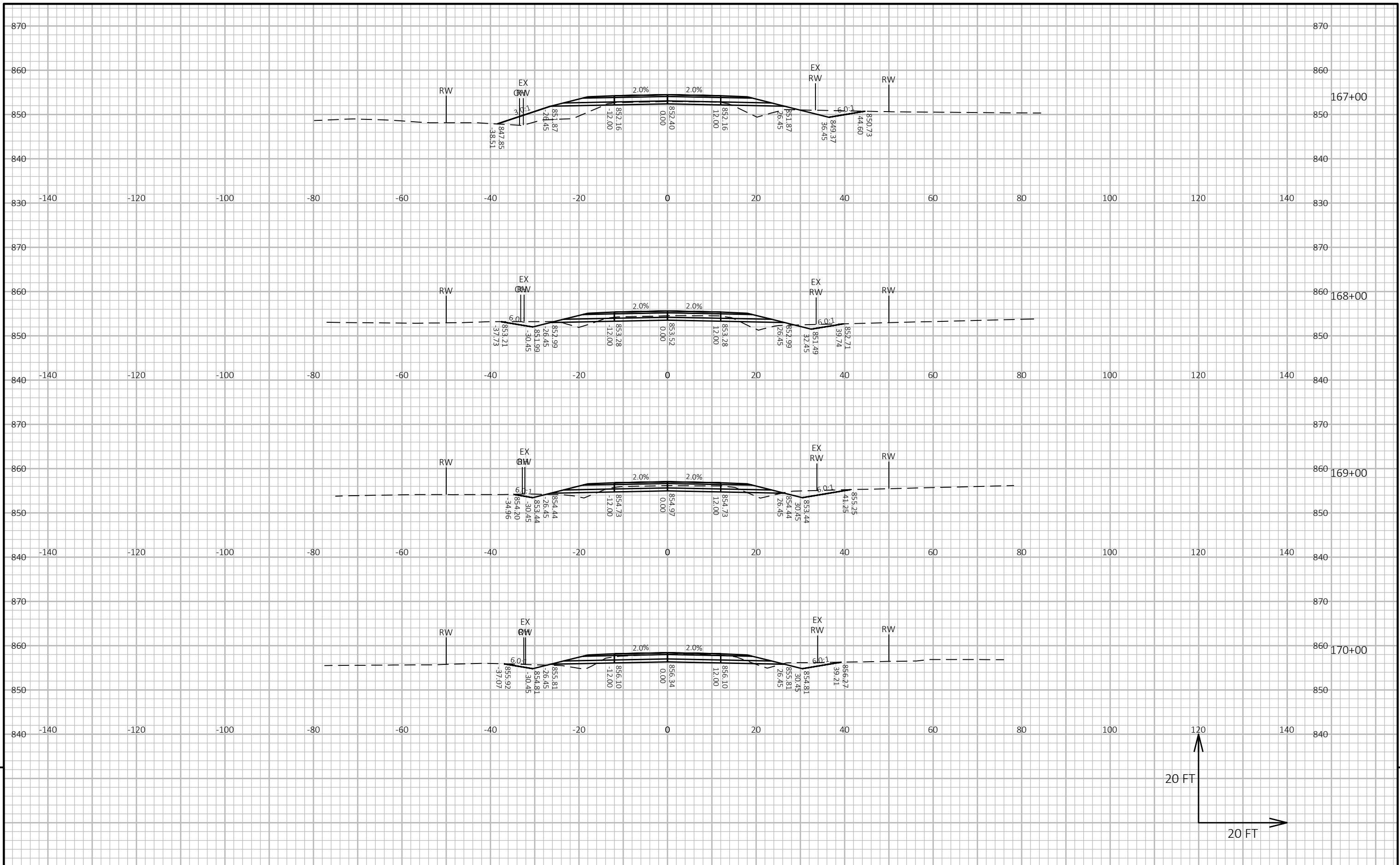
PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      CROSS SECTIONS: CTH C      SHEET 9



STA 166+20 (EXISTING 24" RCCP)  
 1-24"x82' CP CL III-A NON-METAL  
 2 APRON ENDWALLS REQ'D

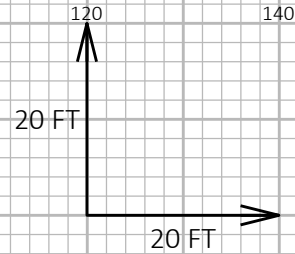




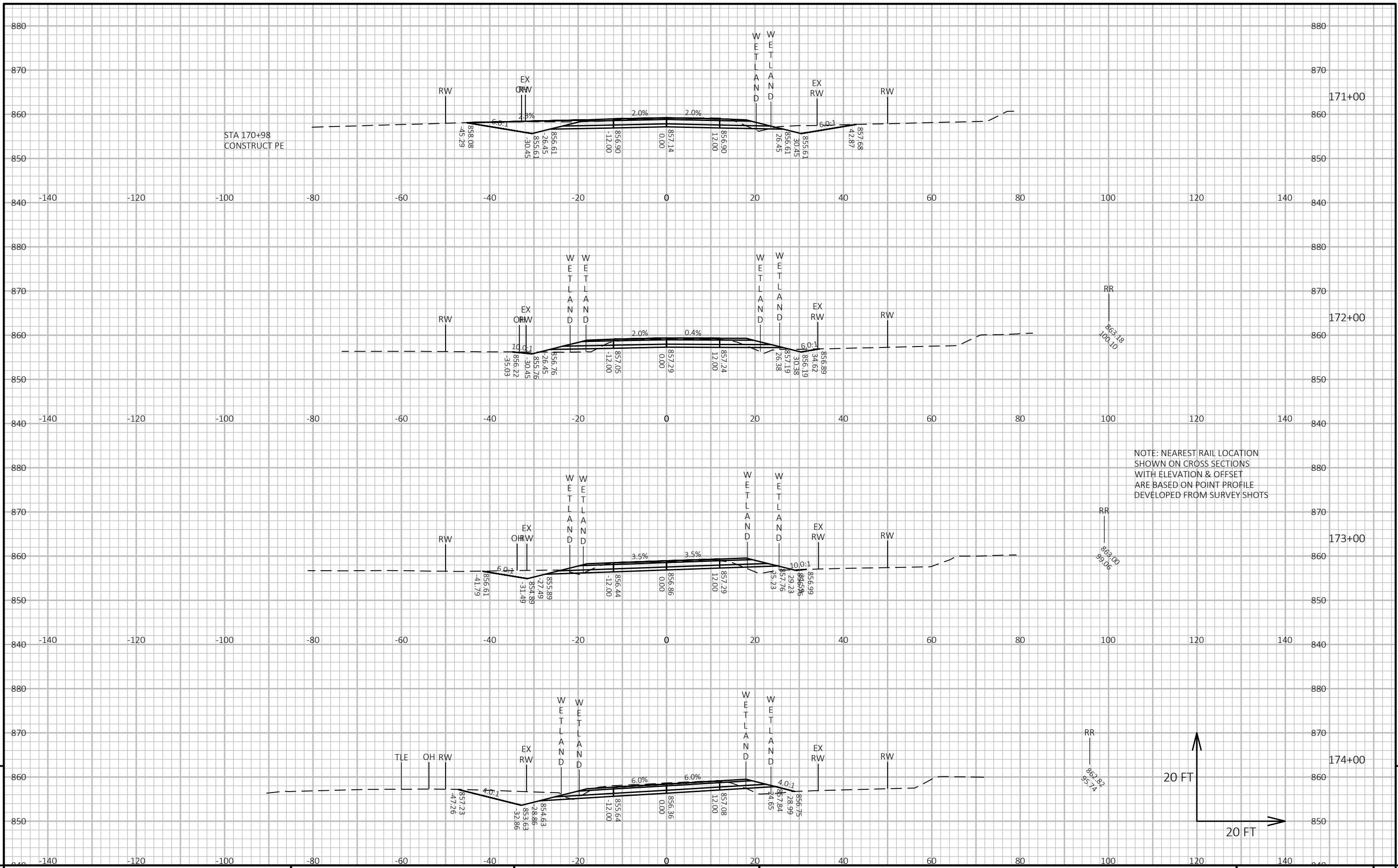


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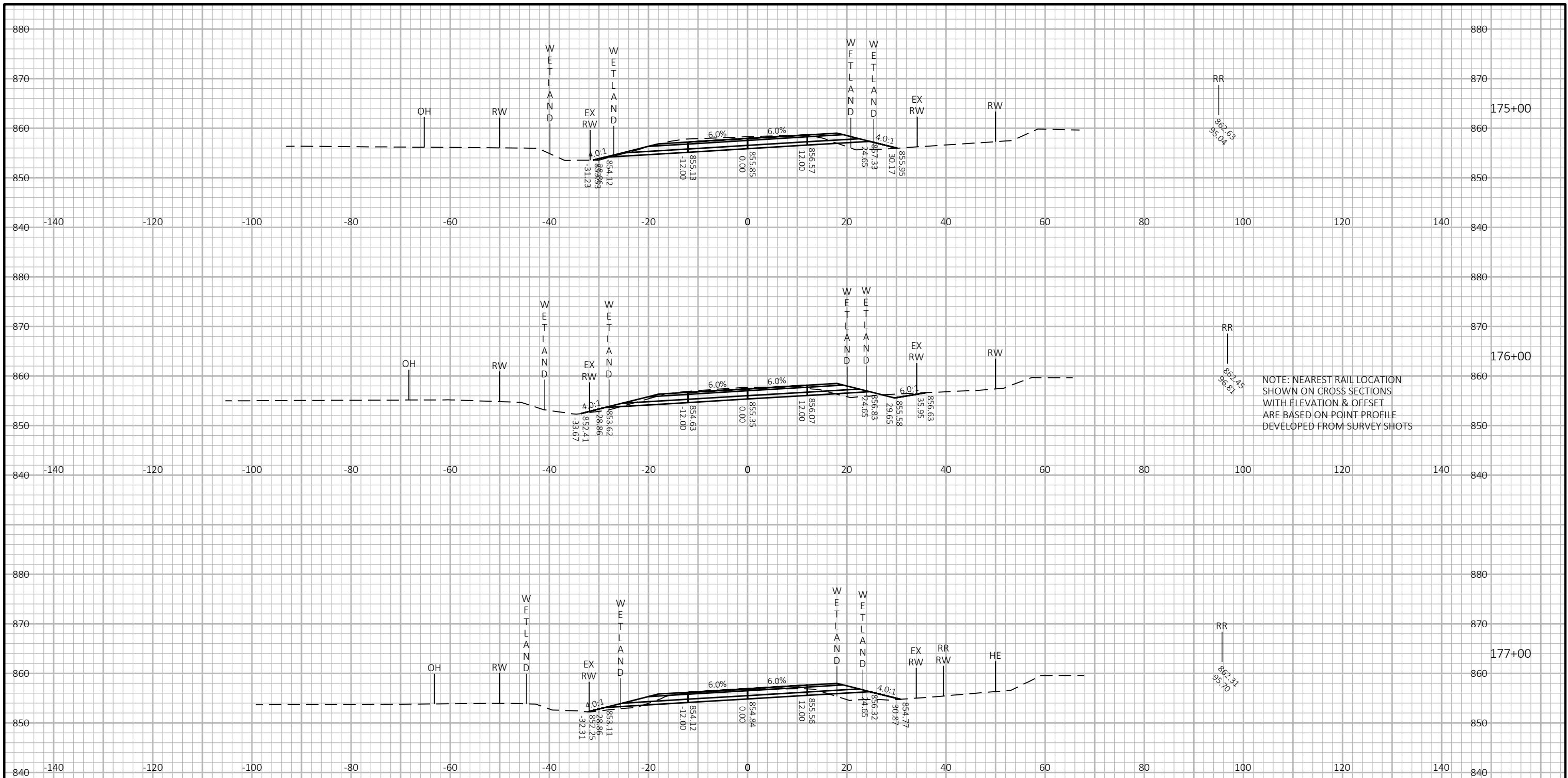
PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      CROSS SECTIONS: CTH C      SHEET      E



PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      CROSS SECTIONS: CTH C      SHEET      E

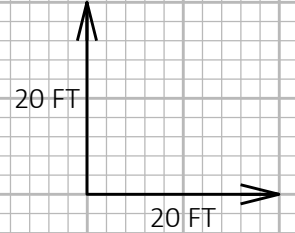
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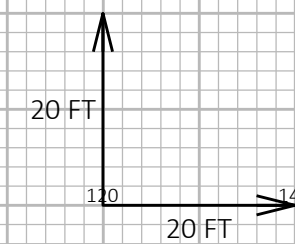
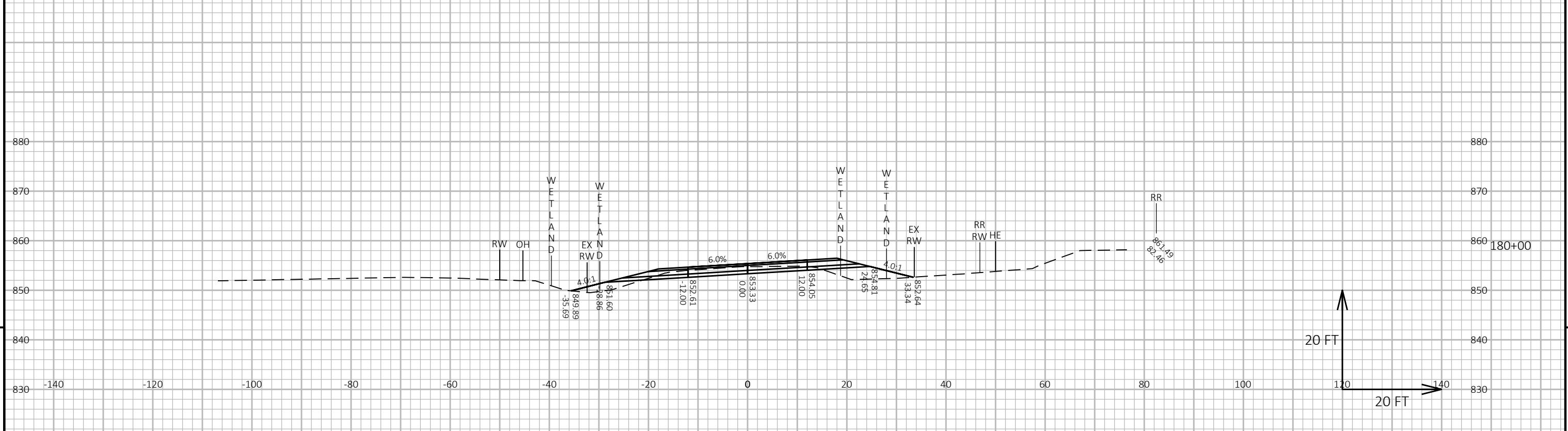
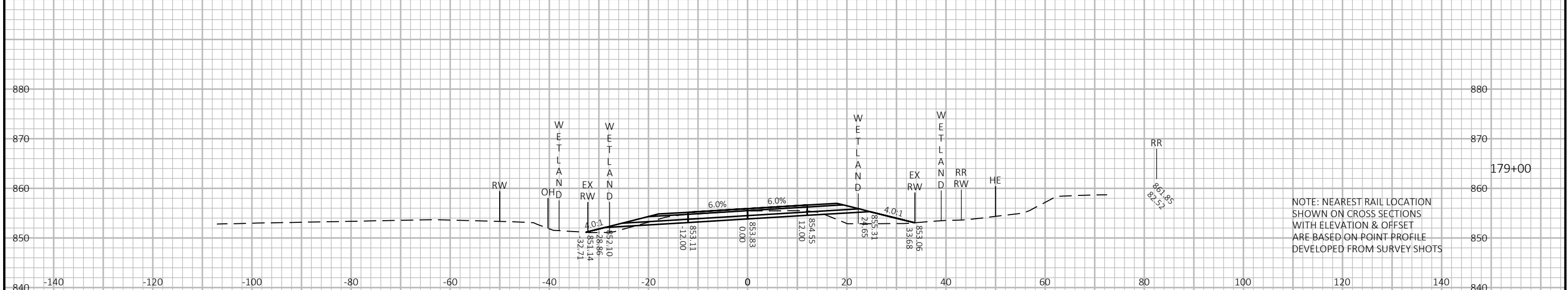
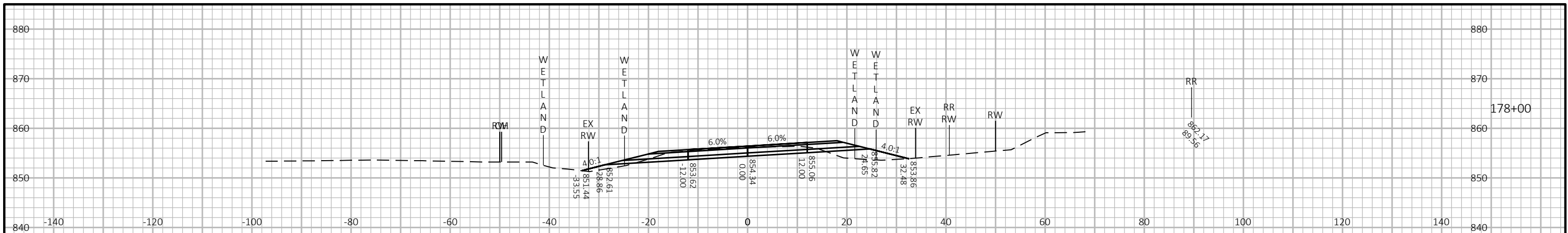


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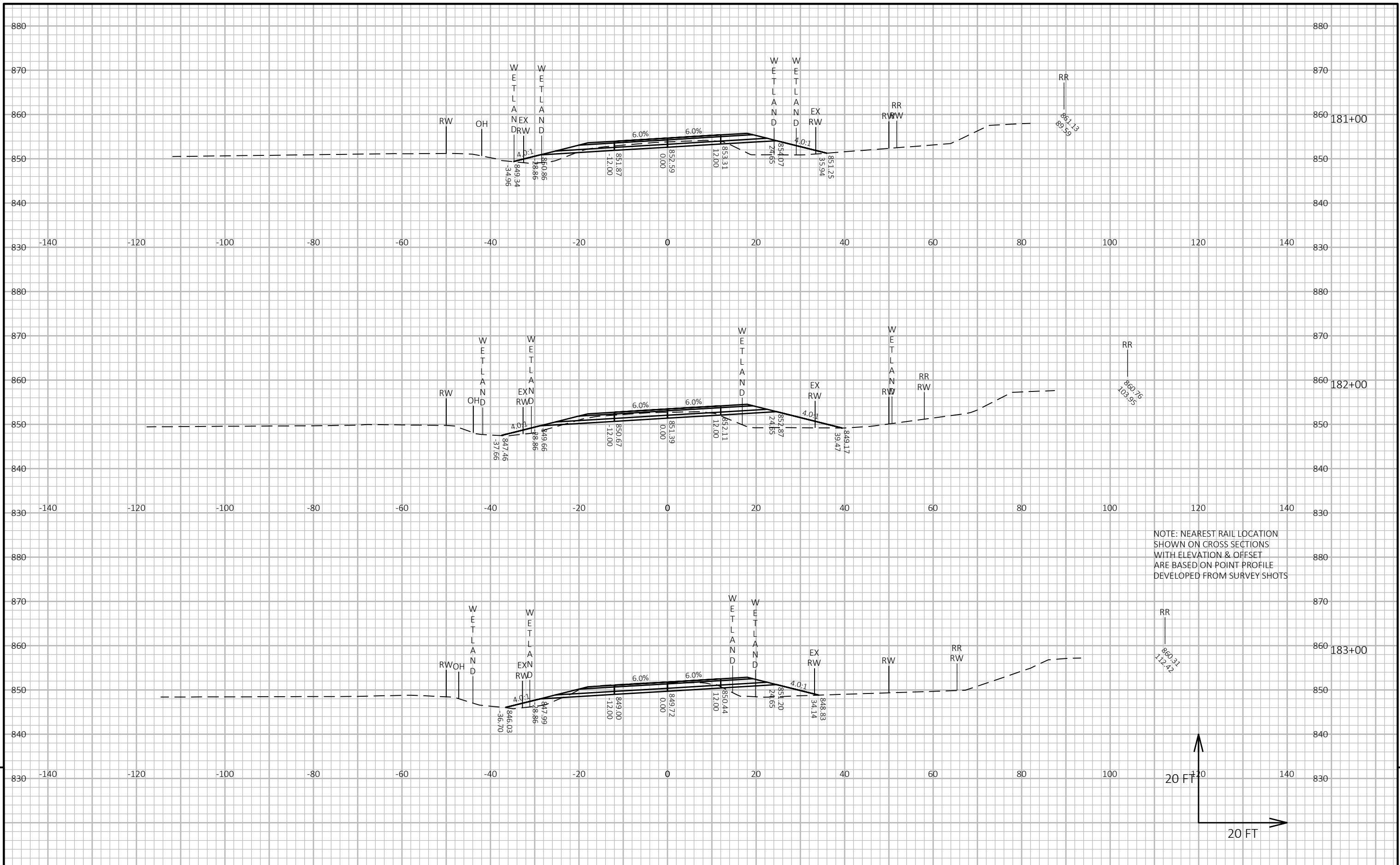
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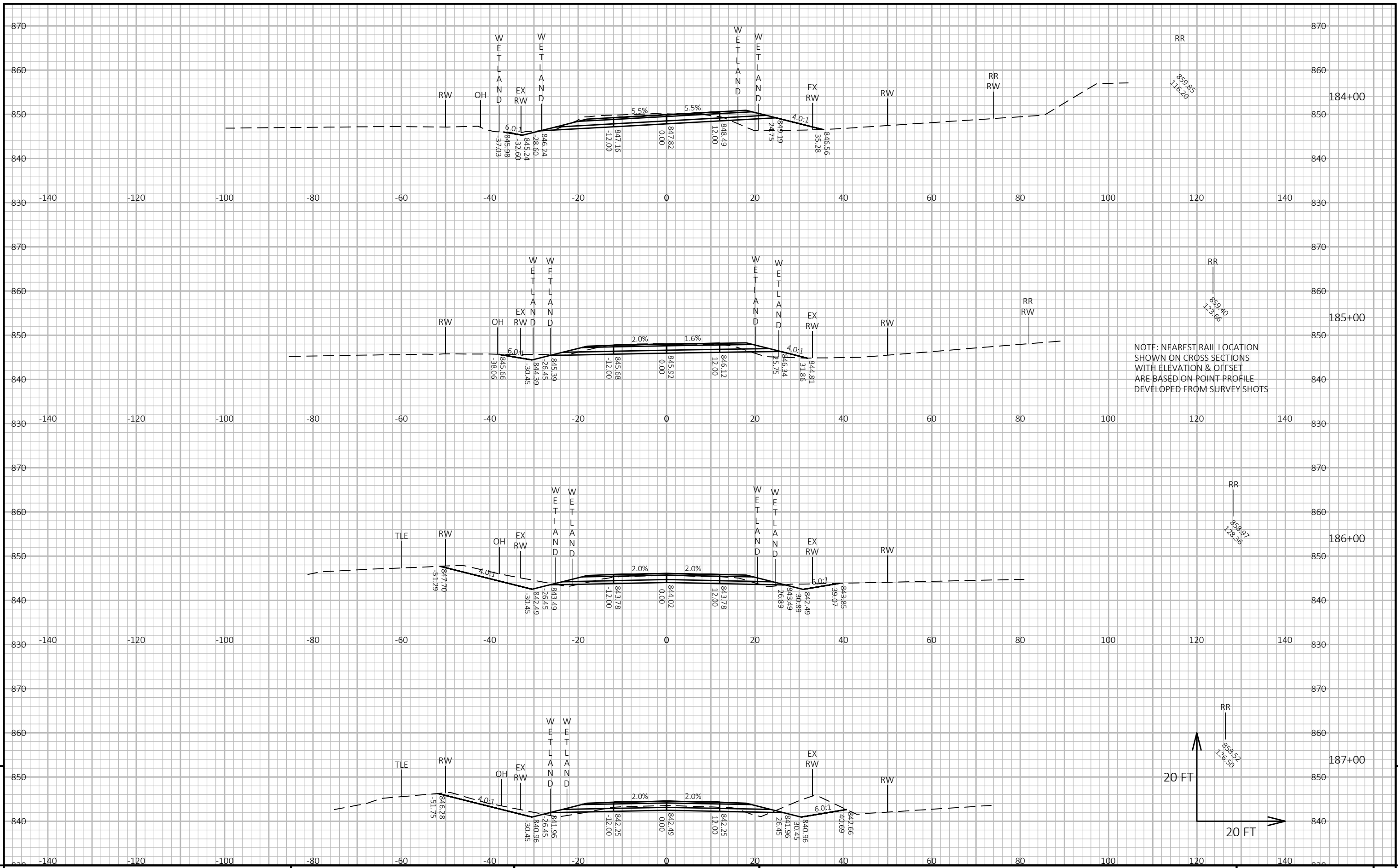
PROJECT NO: 8758-00-72	HWY: CTH C	COUNTY: DOUGLAS	CROSS SECTIONS: CTH C	SHEET	E
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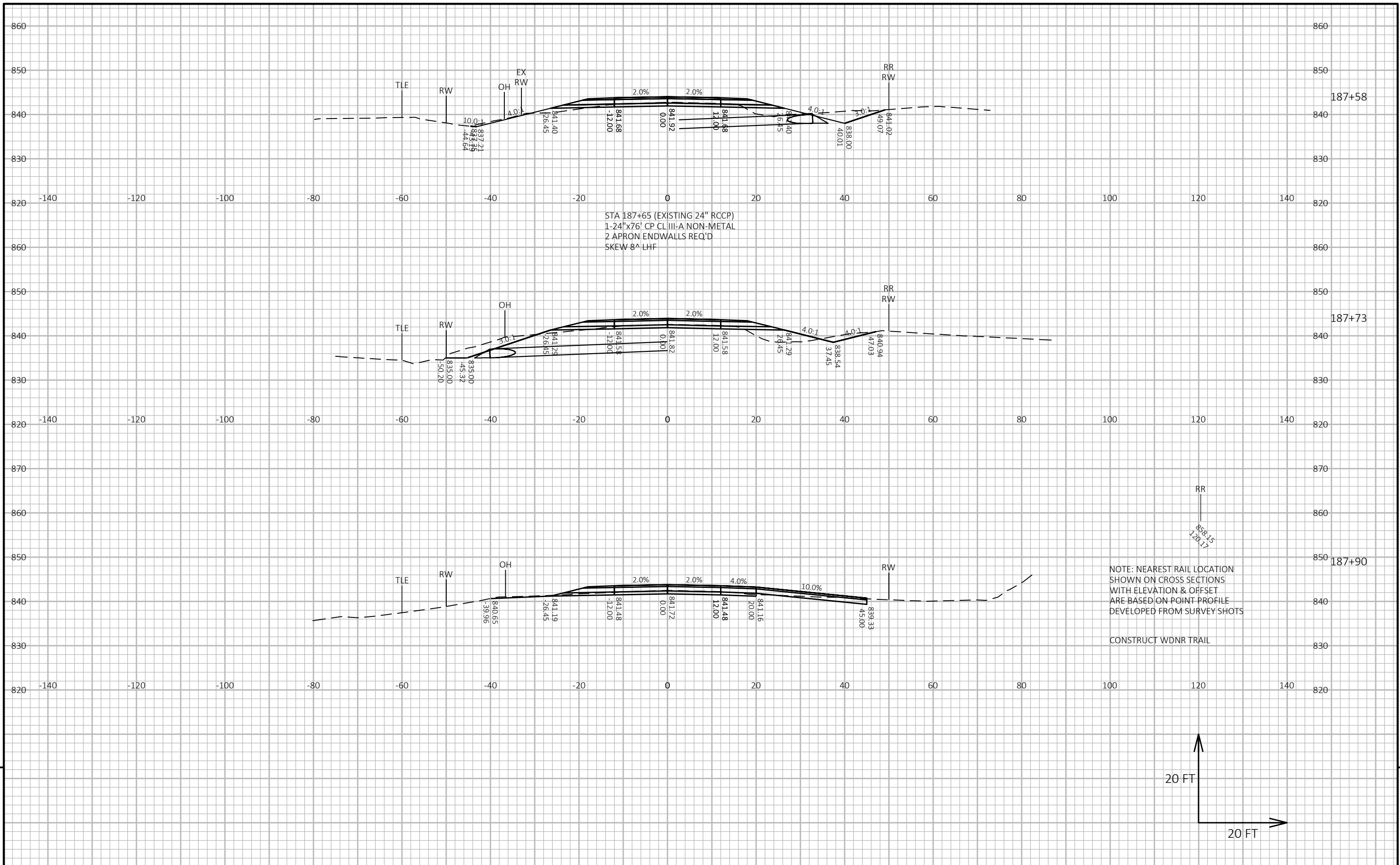
PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      CROSS SECTIONS: CTH C      SHEET 9



PROJECT NO: 8758-00-72	HWY: CTH C	COUNTY: DOUGLAS	CROSS SECTIONS: CTH C	SHEET	E
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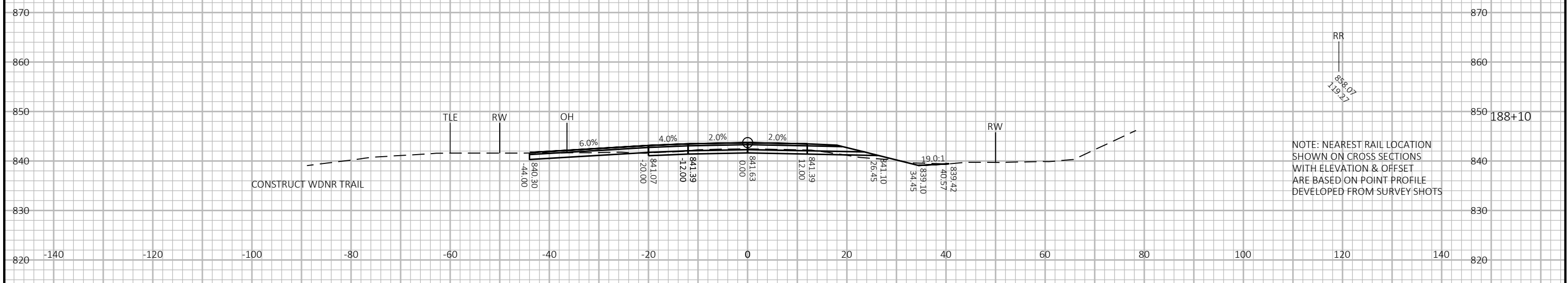
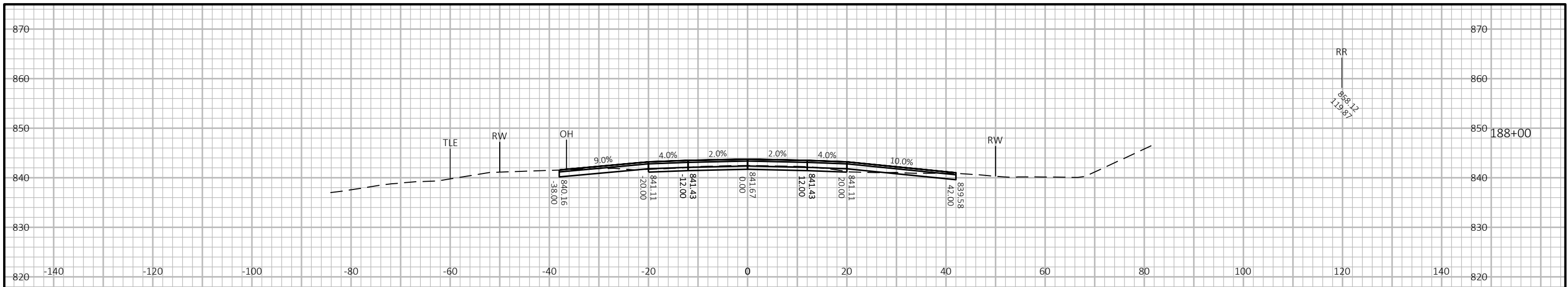
PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      CROSS SECTIONS: CTH C      SHEET      E



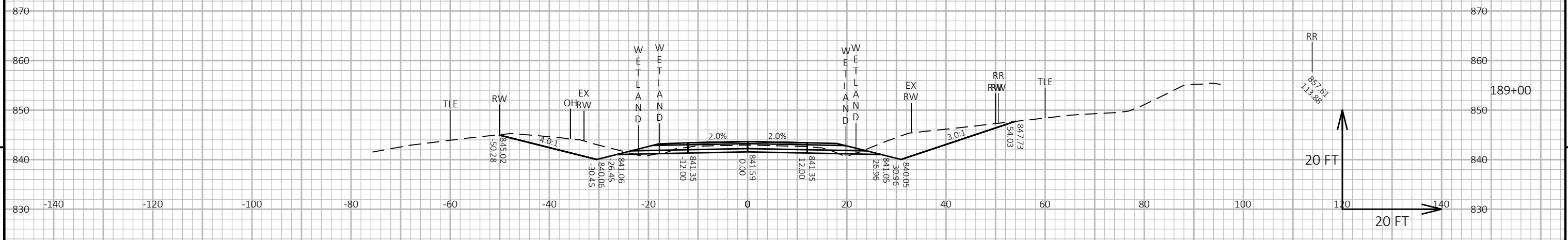
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PROJECT NO: 8758-00-72	HWY: CTH C	COUNTY: DOUGLAS	CROSS SECTIONS: CTH C	SHEET E
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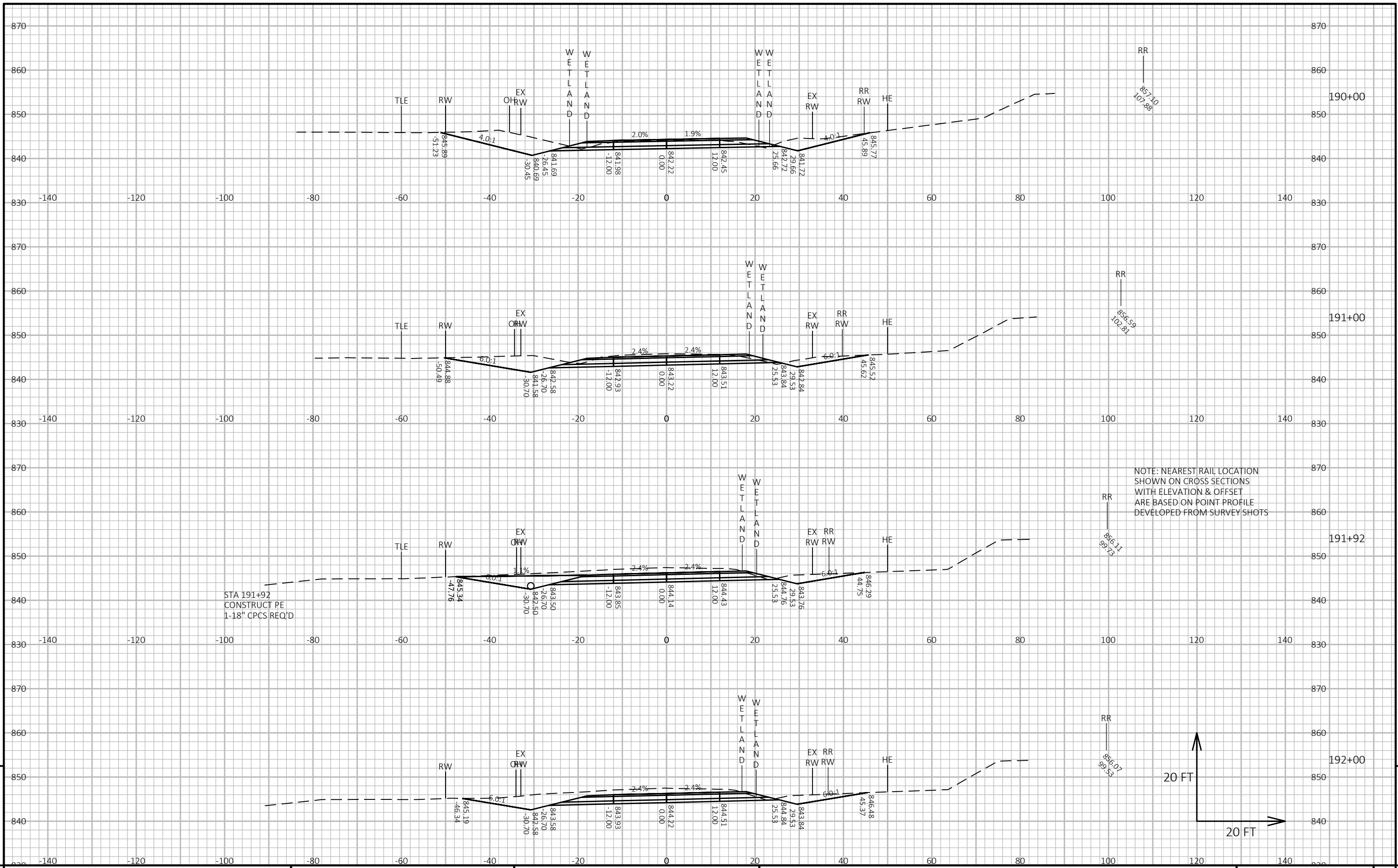
NOTE: NEAREST RAIL LOCATION SHOWN ON CROSS SECTIONS WITH ELEVATION & OFFSET ARE BASED ON POINT PROFILE DEVELOPED FROM SURVEY SHOTS



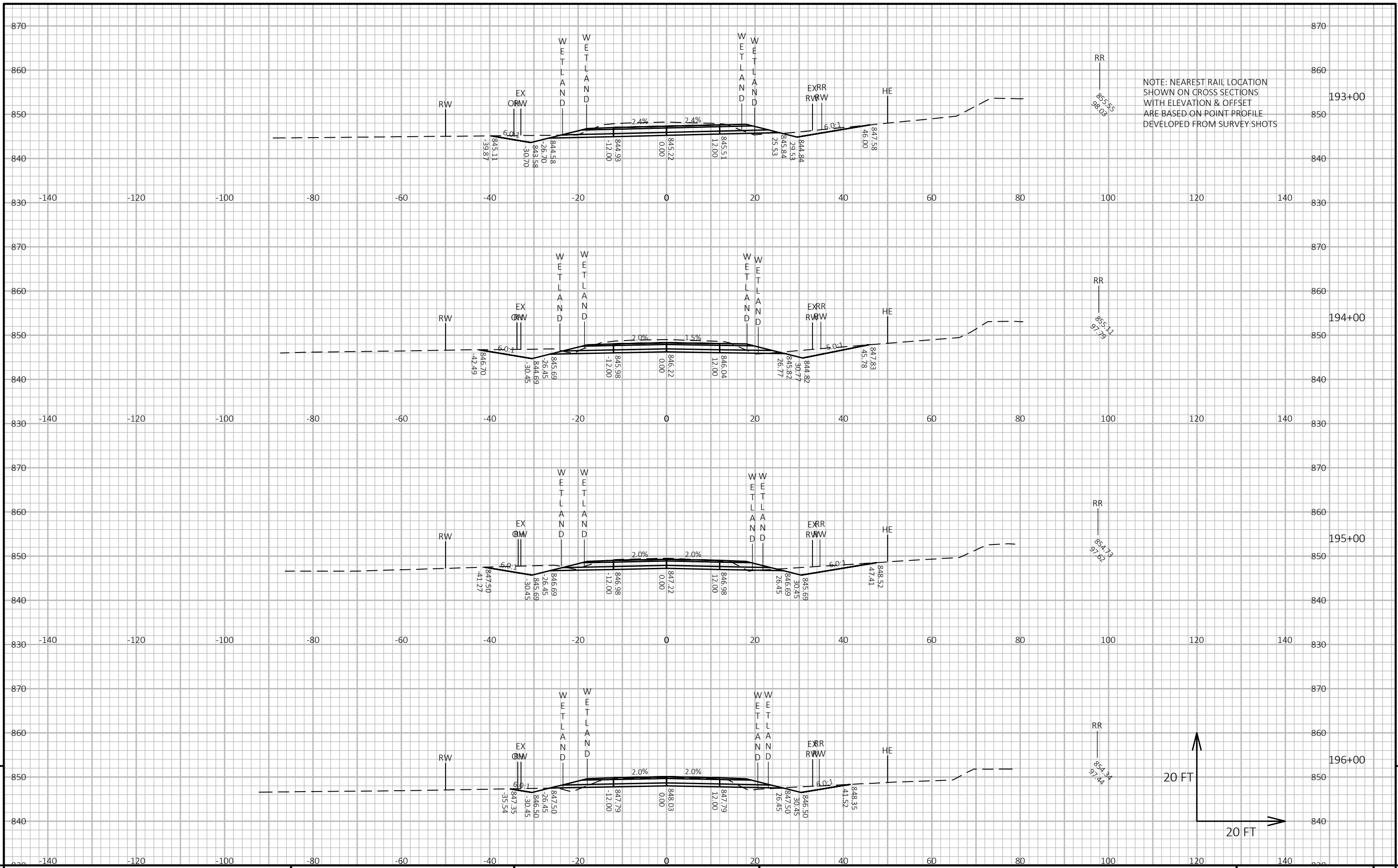
20 FT

20 FT

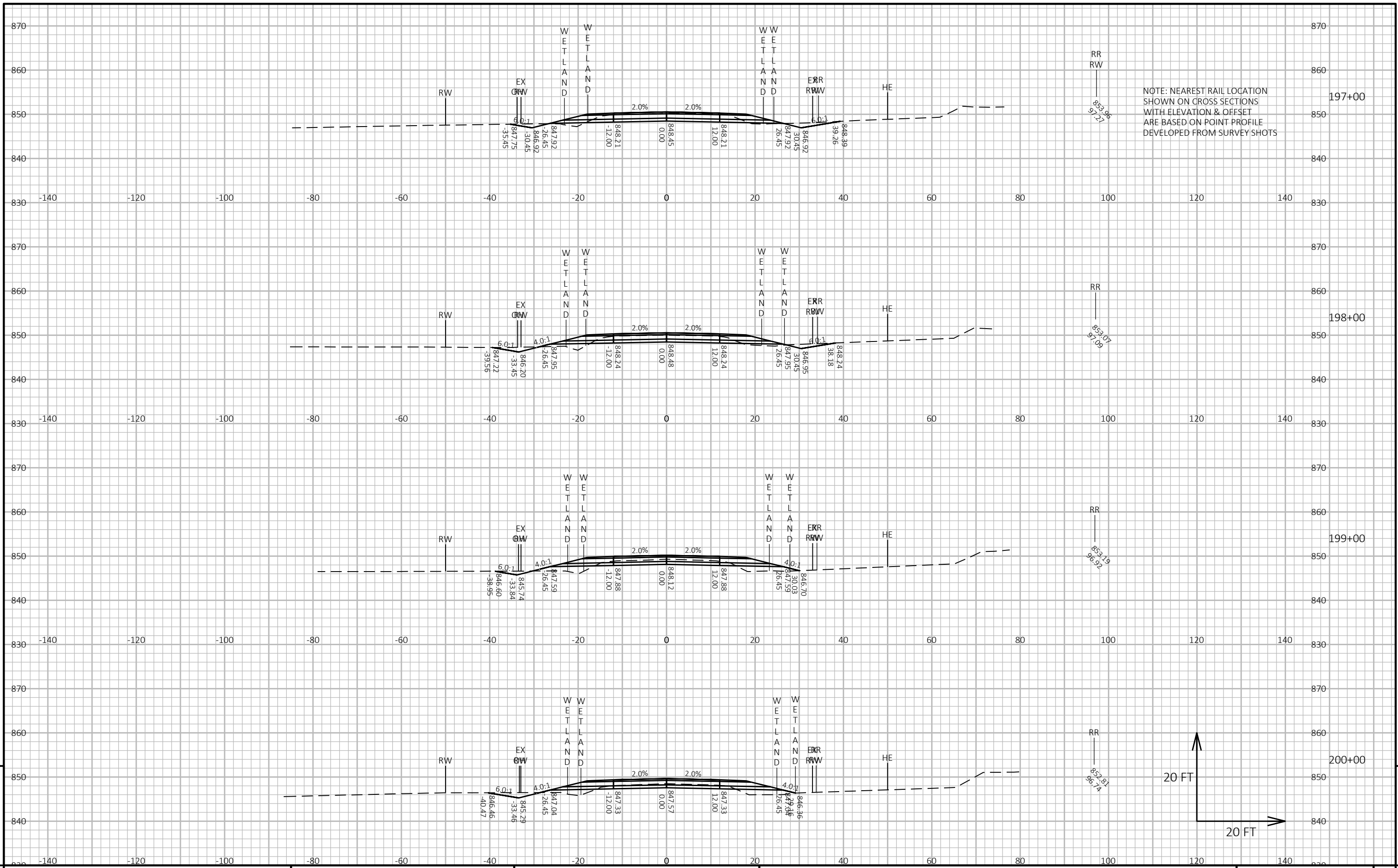




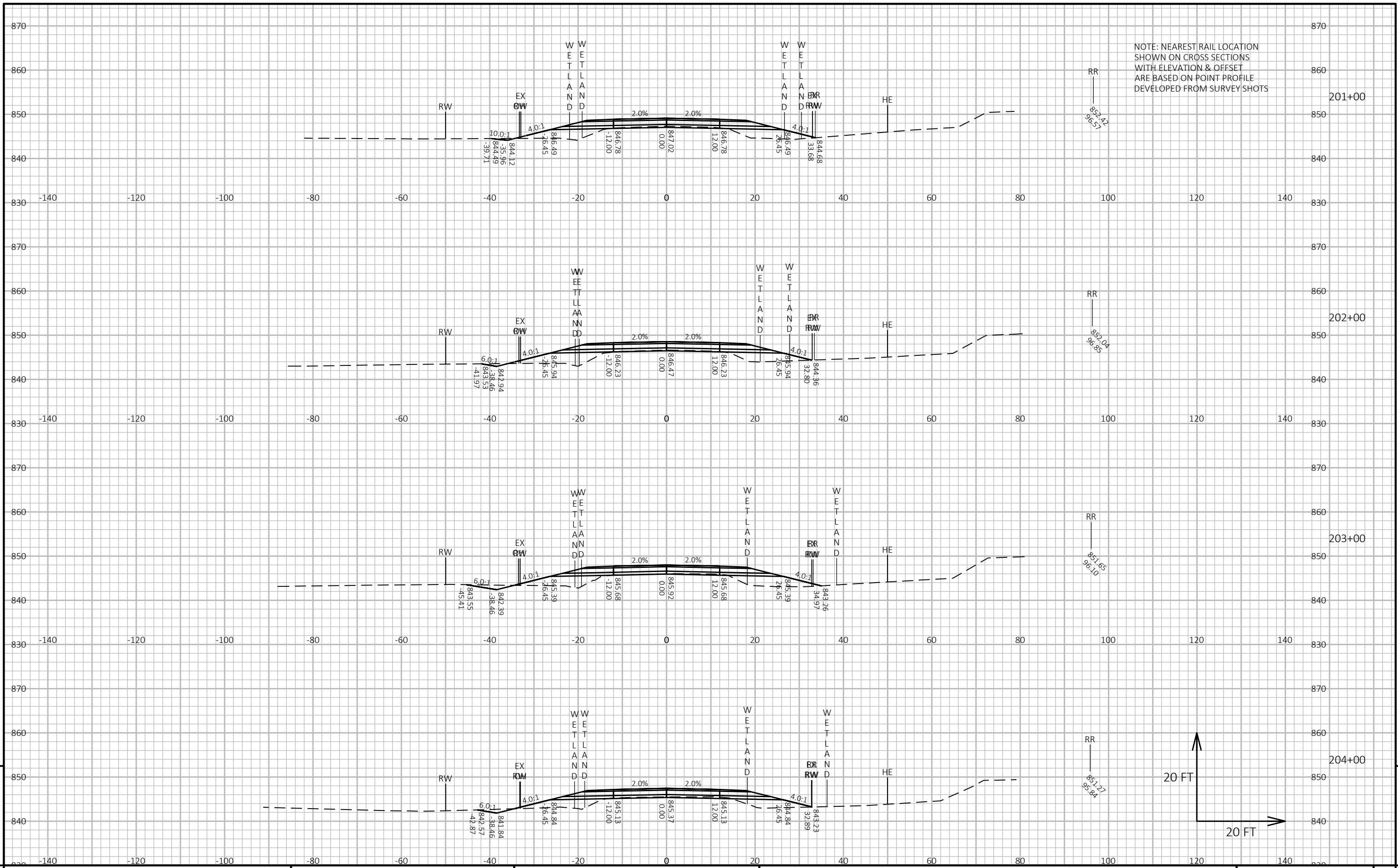
PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      CROSS SECTIONS: CTH C      SHEET      E



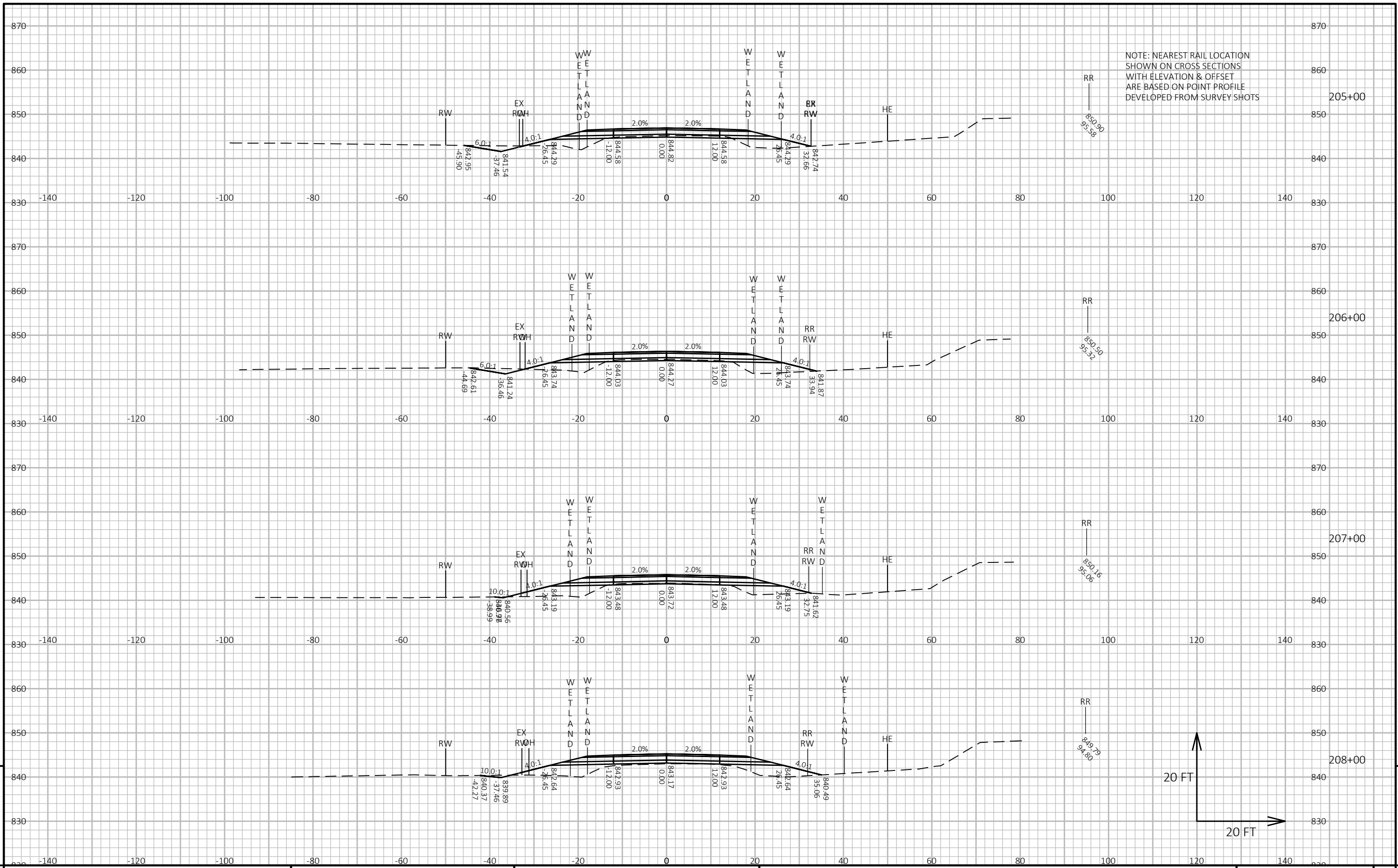
PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      CROSS SECTIONS: CTH C      SHEET      E

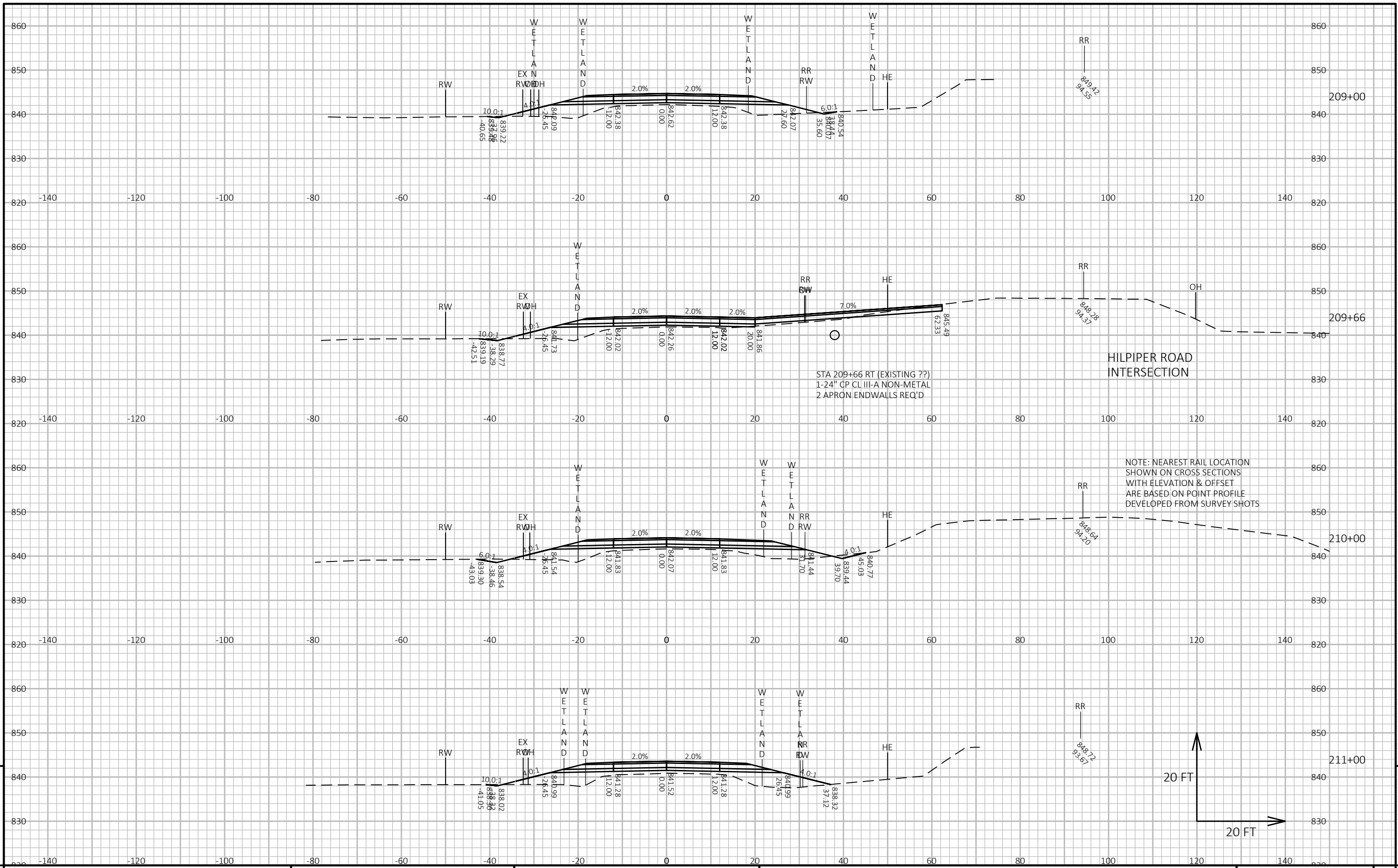


PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      CROSS SECTIONS: CTH C      SHEET      E

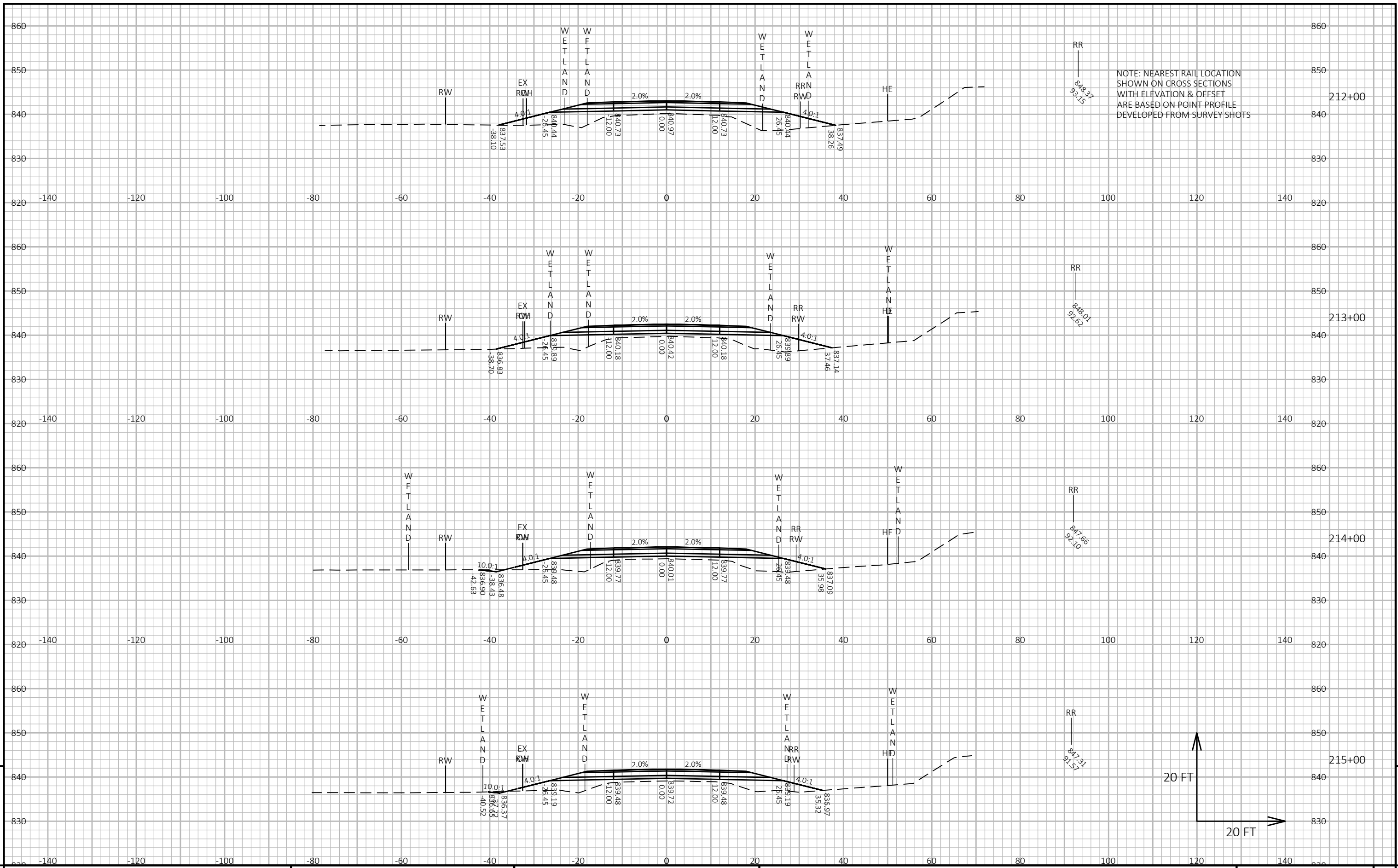


PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      CROSS SECTIONS: CTH C      SHEET      E

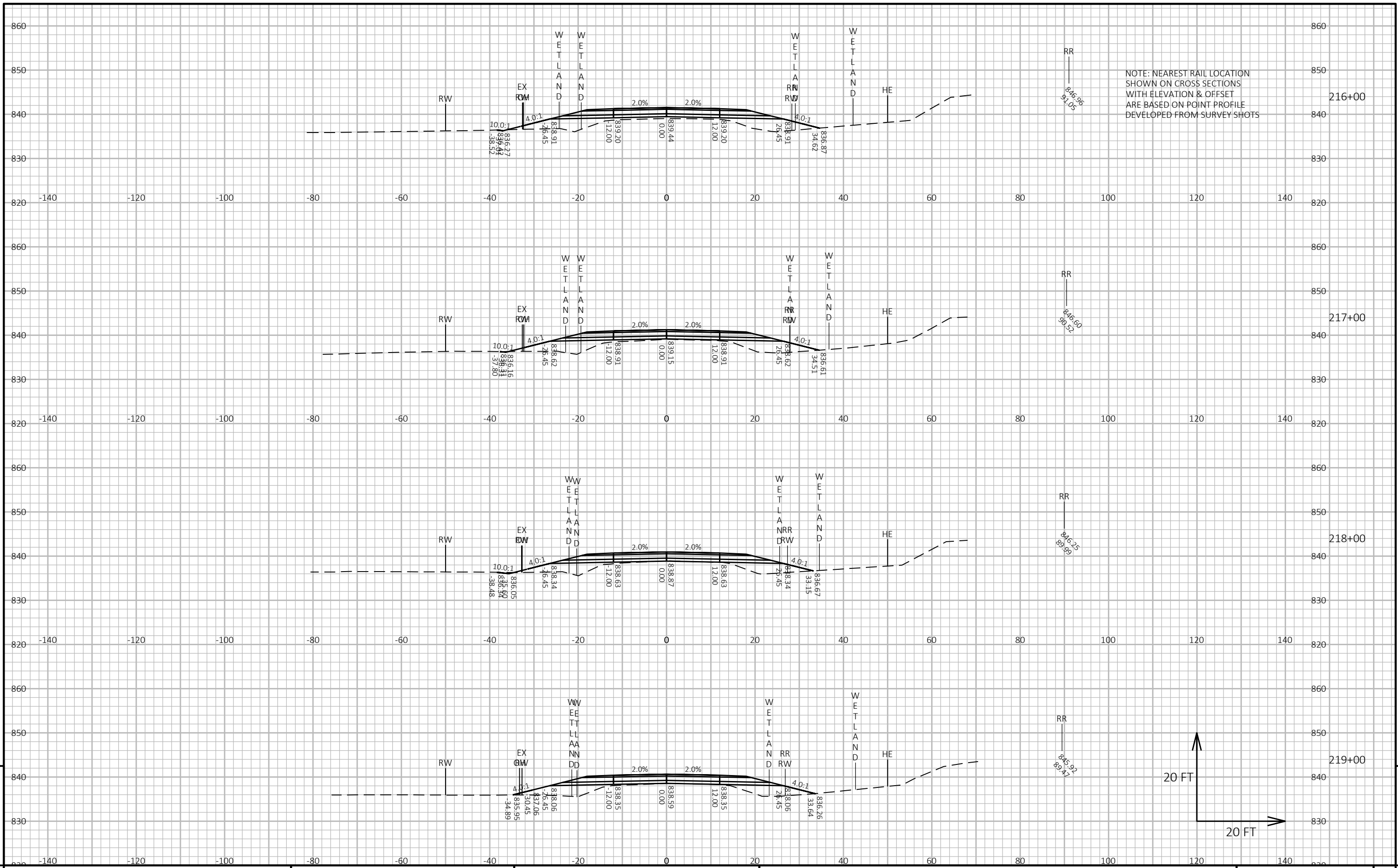




PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      CROSS SECTIONS: CTH C      SHEET      E

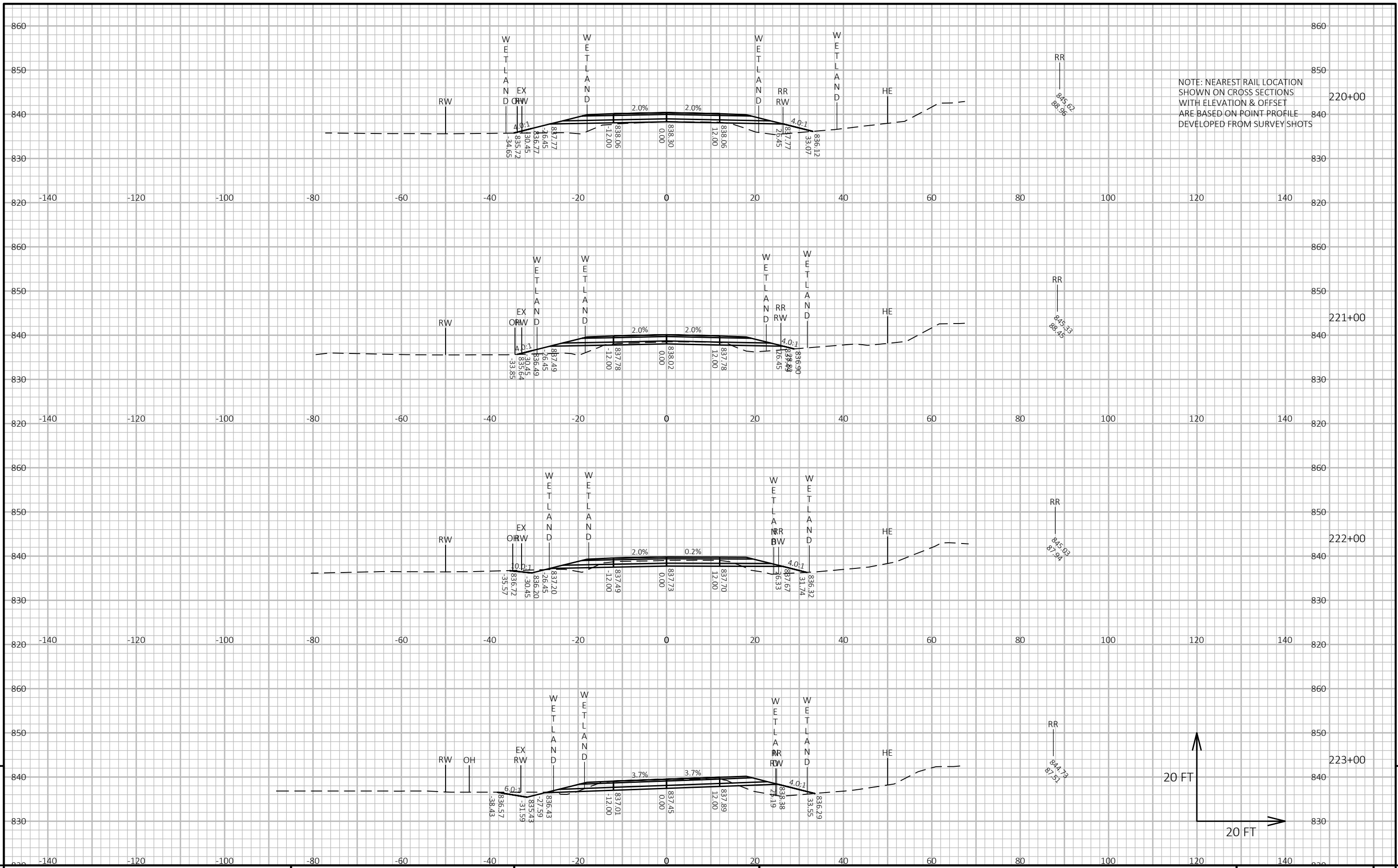


PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      CROSS SECTIONS: CTH C      SHEET      E

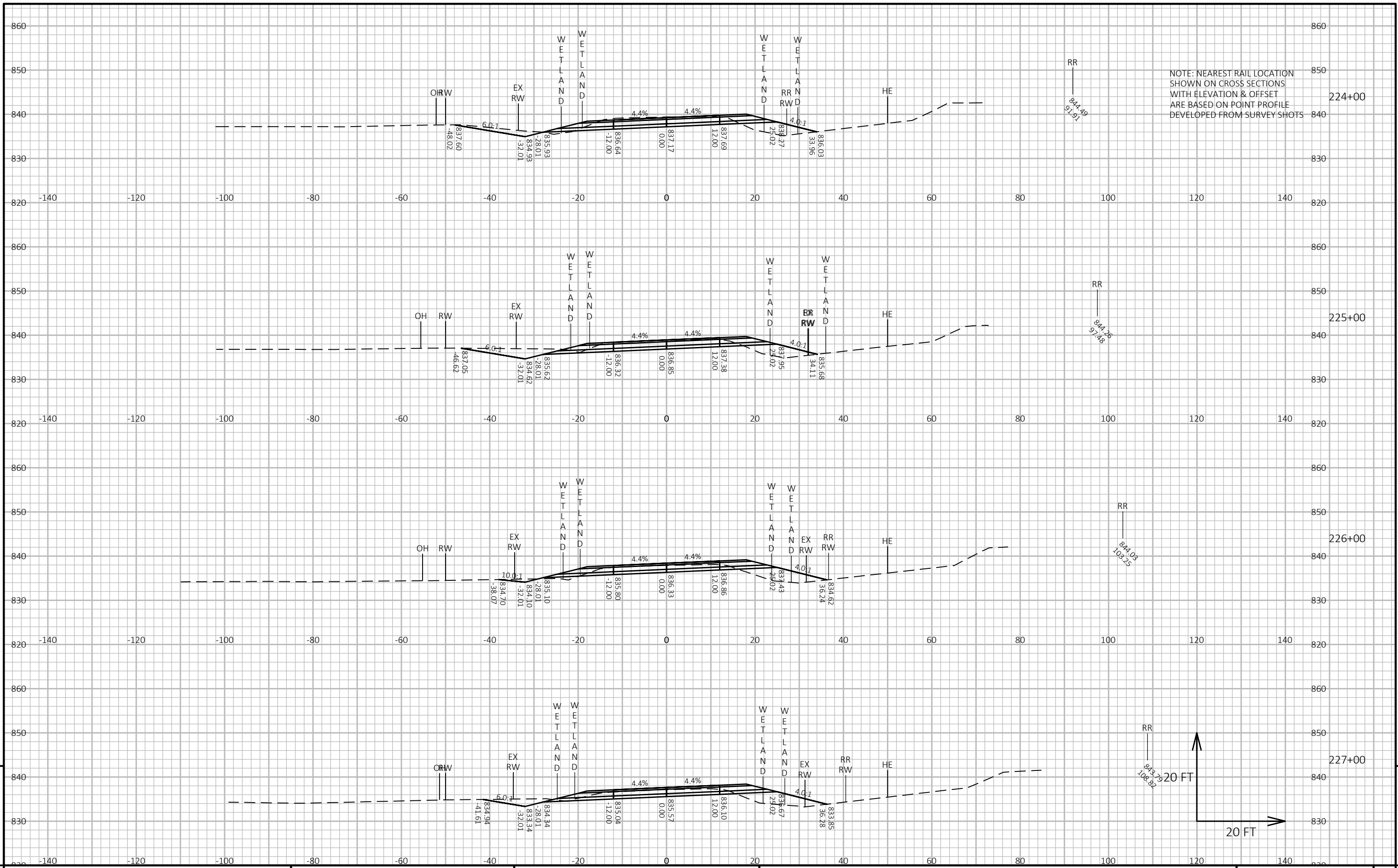


PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      CROSS SECTIONS: CTH C      SHEET 9

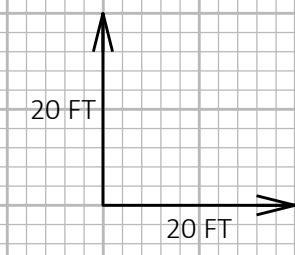
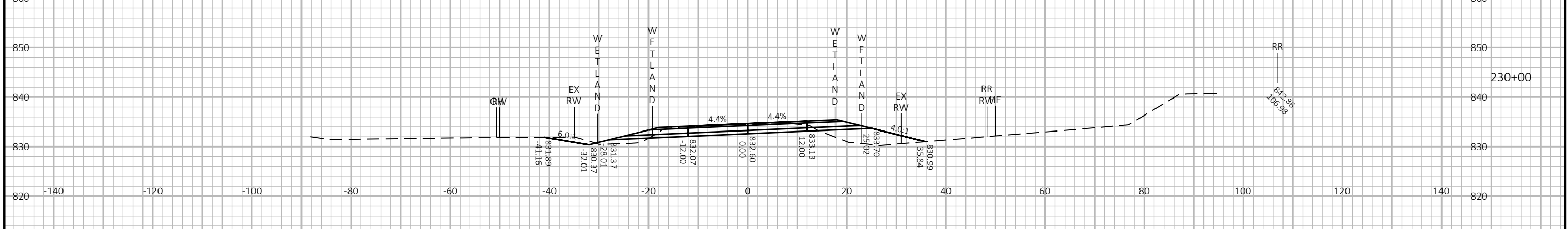
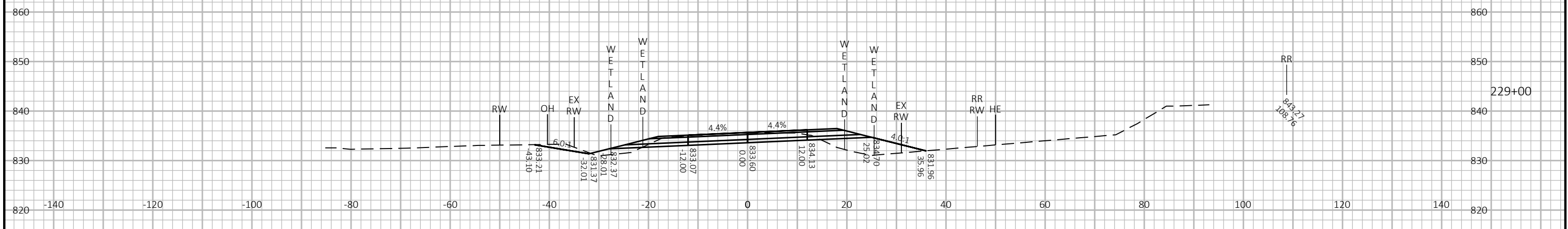
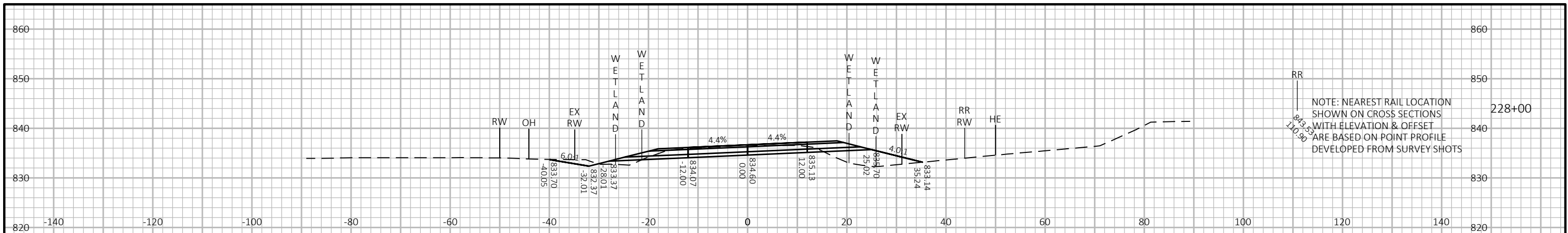




PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      CROSS SECTIONS: CTH C      SHEET 9

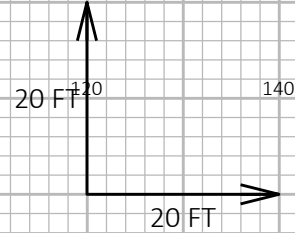
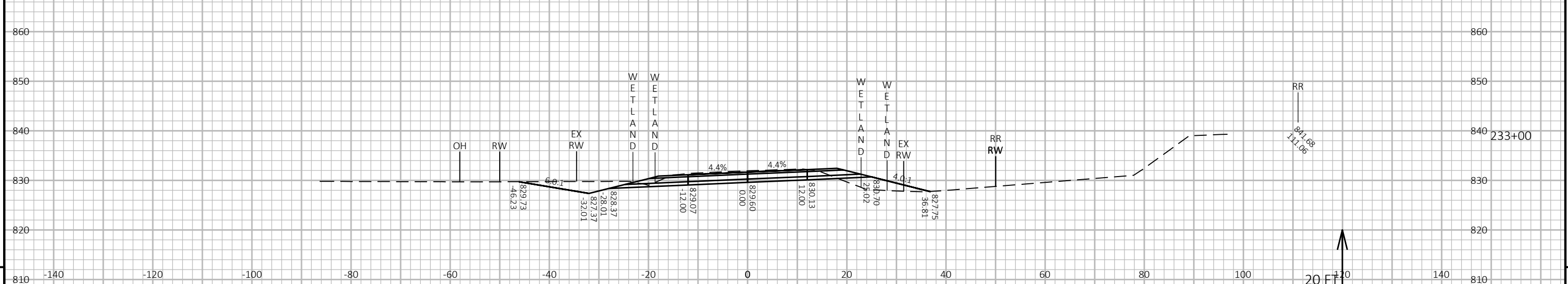
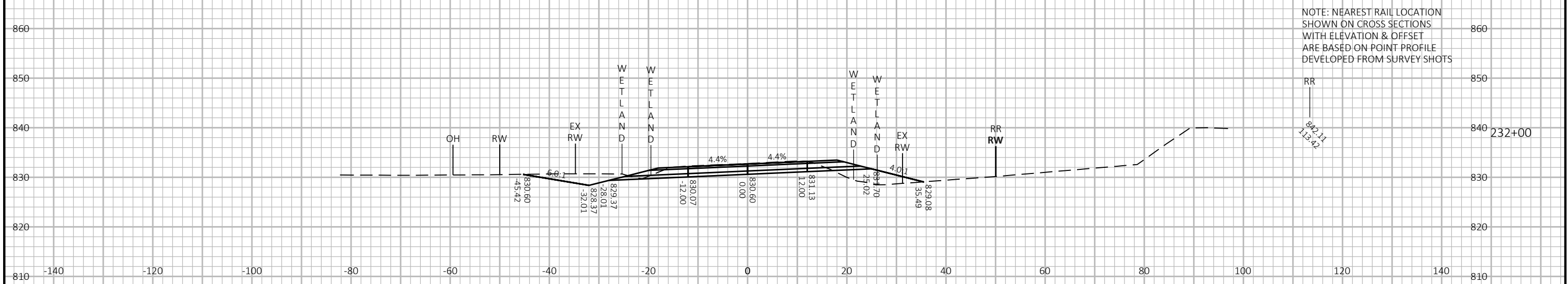
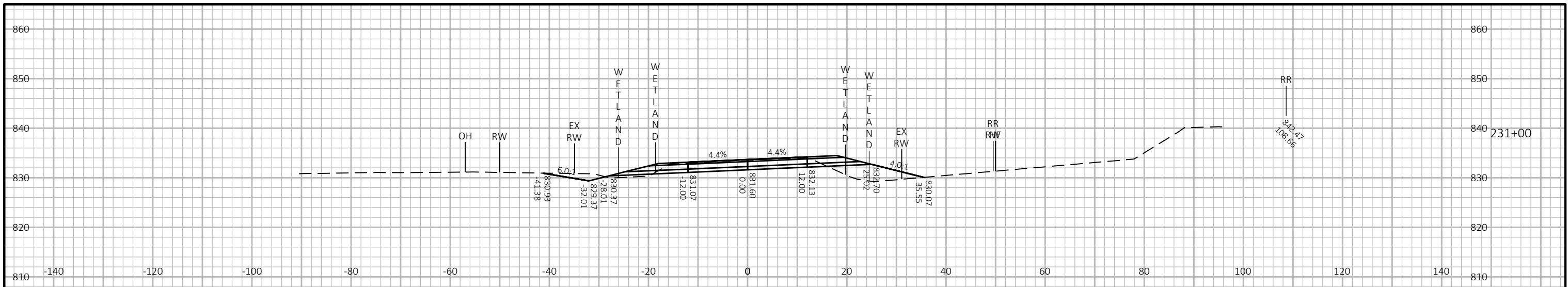


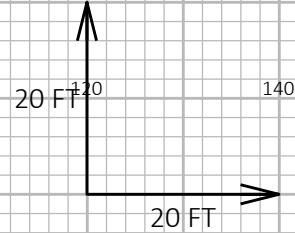
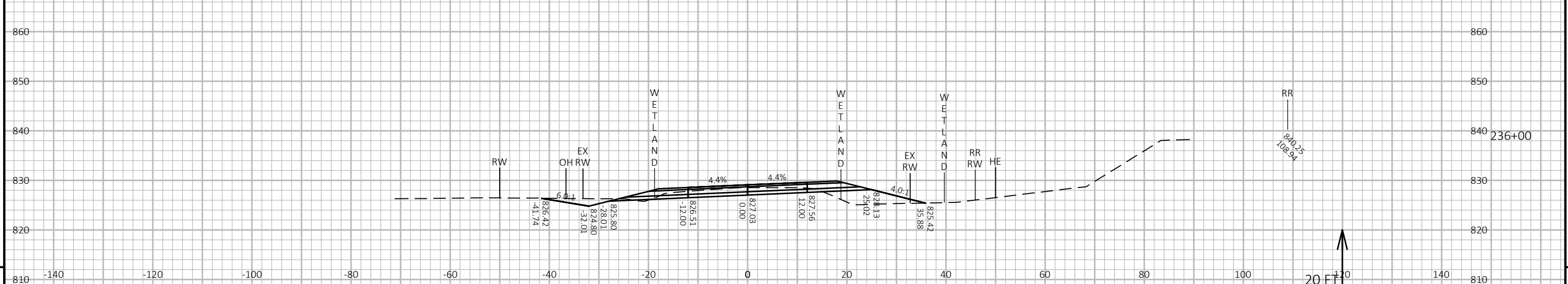
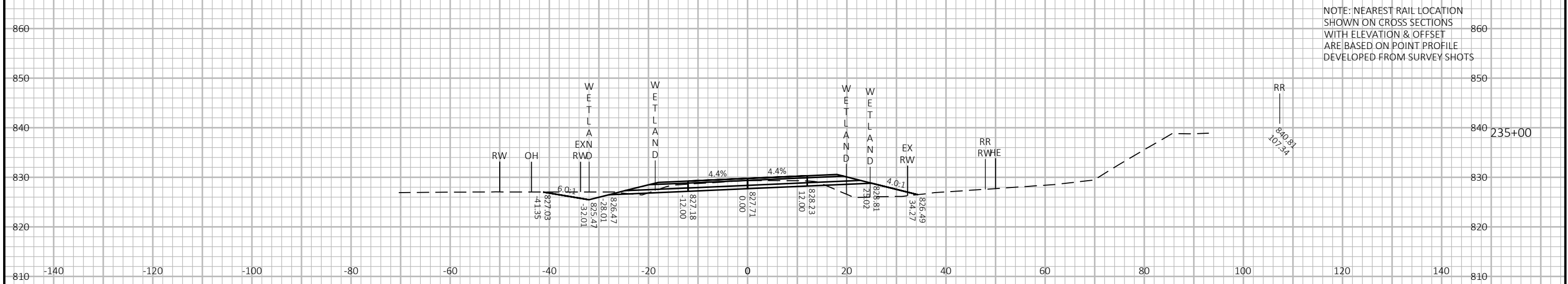
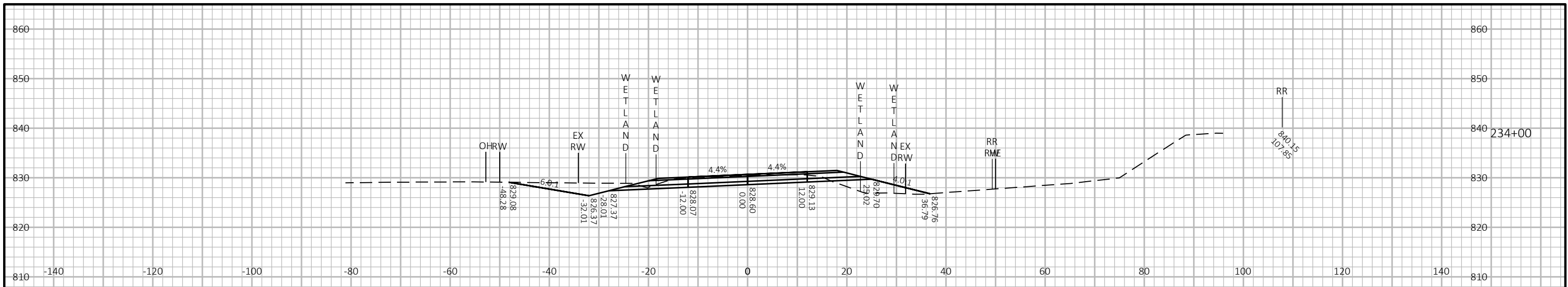
PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      CROSS SECTIONS: CTH C      SHEET      E



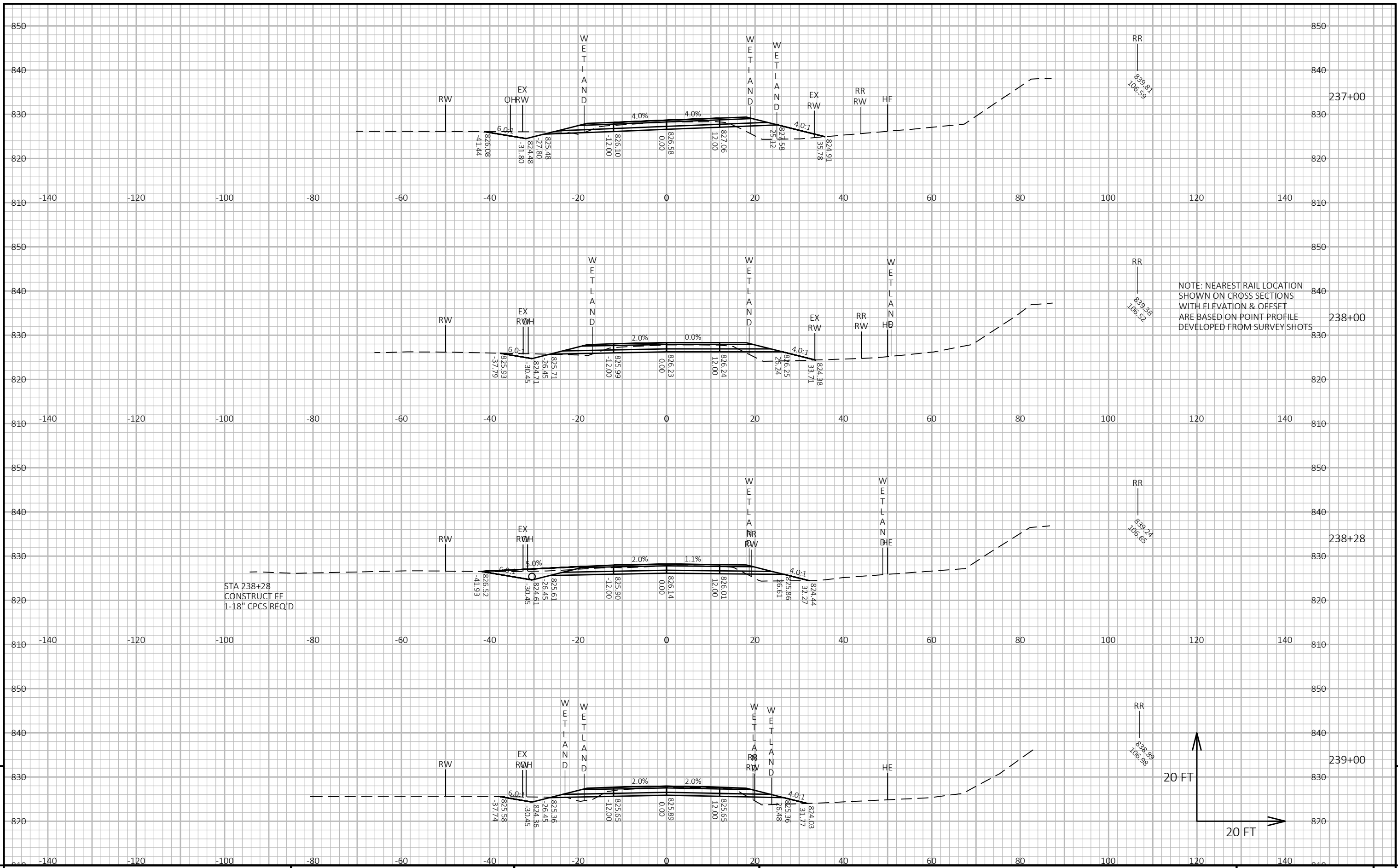
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PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      CROSS SECTIONS: CTH C      SHEET 9

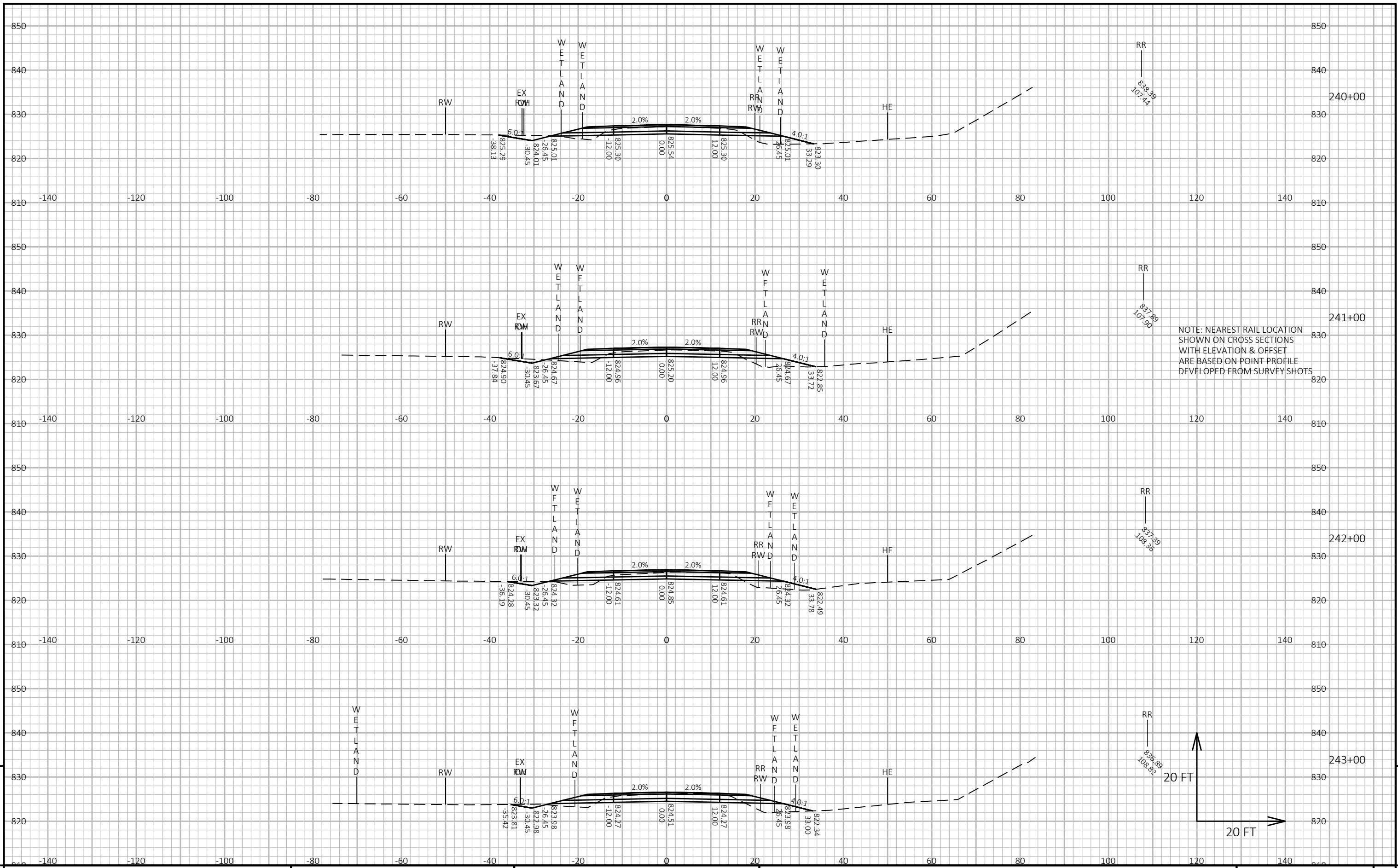


NOTE: NEAREST RAIL LOCATION SHOWN ON CROSS SECTIONS WITH ELEVATION & OFFSET ARE BASED ON POINT PROFILE DEVELOPED FROM SURVEY SHOTS

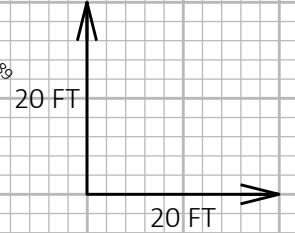
STA 238+28  
CONSTRUCT FE  
1-18" CPCS REQ'D

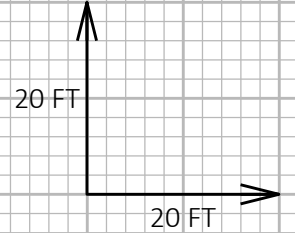
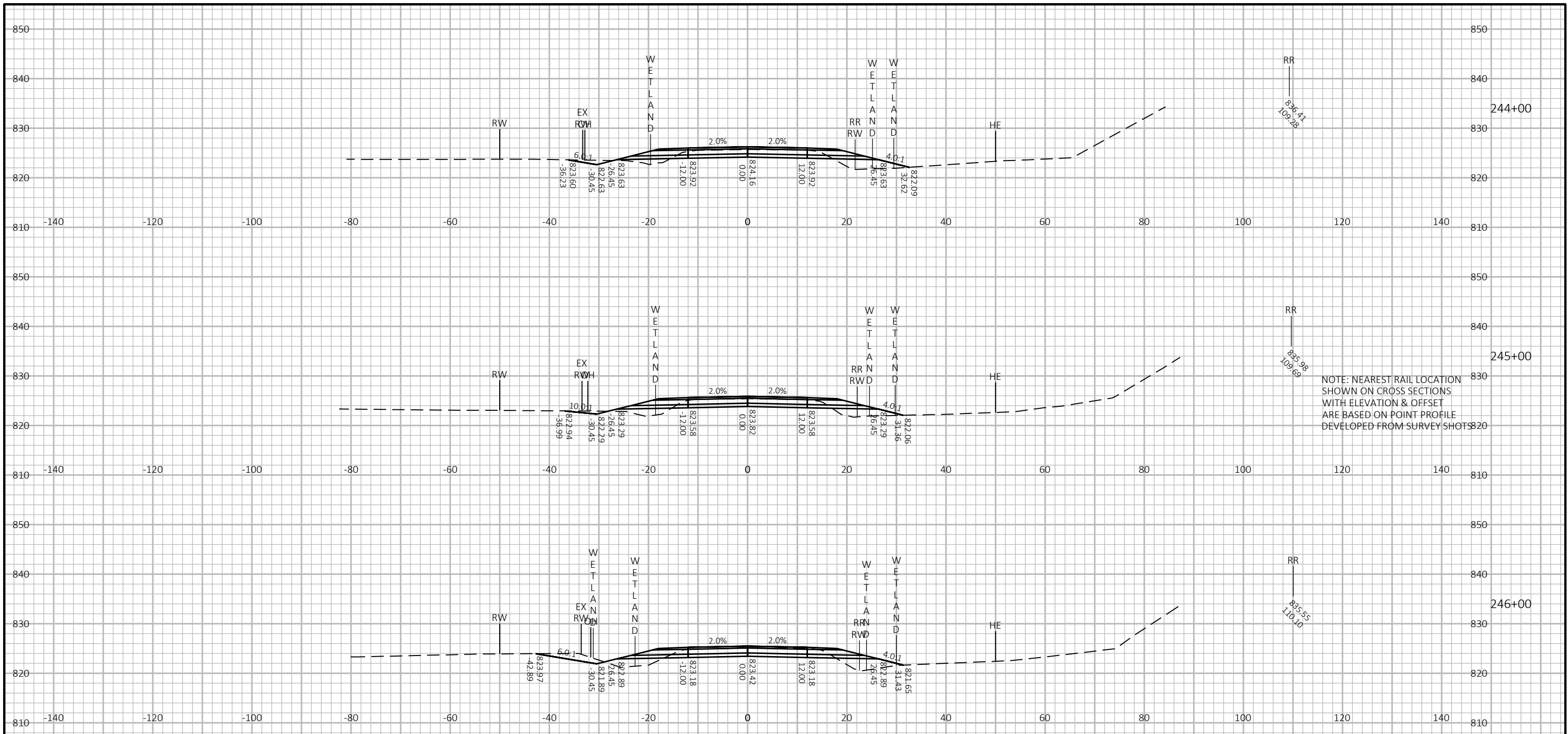
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NOTE: NEAREST RAIL LOCATION SHOWN ON CROSS SECTIONS WITH ELEVATION & OFFSET ARE BASED ON POINT PROFILE DEVELOPED FROM SURVEY SHOTS



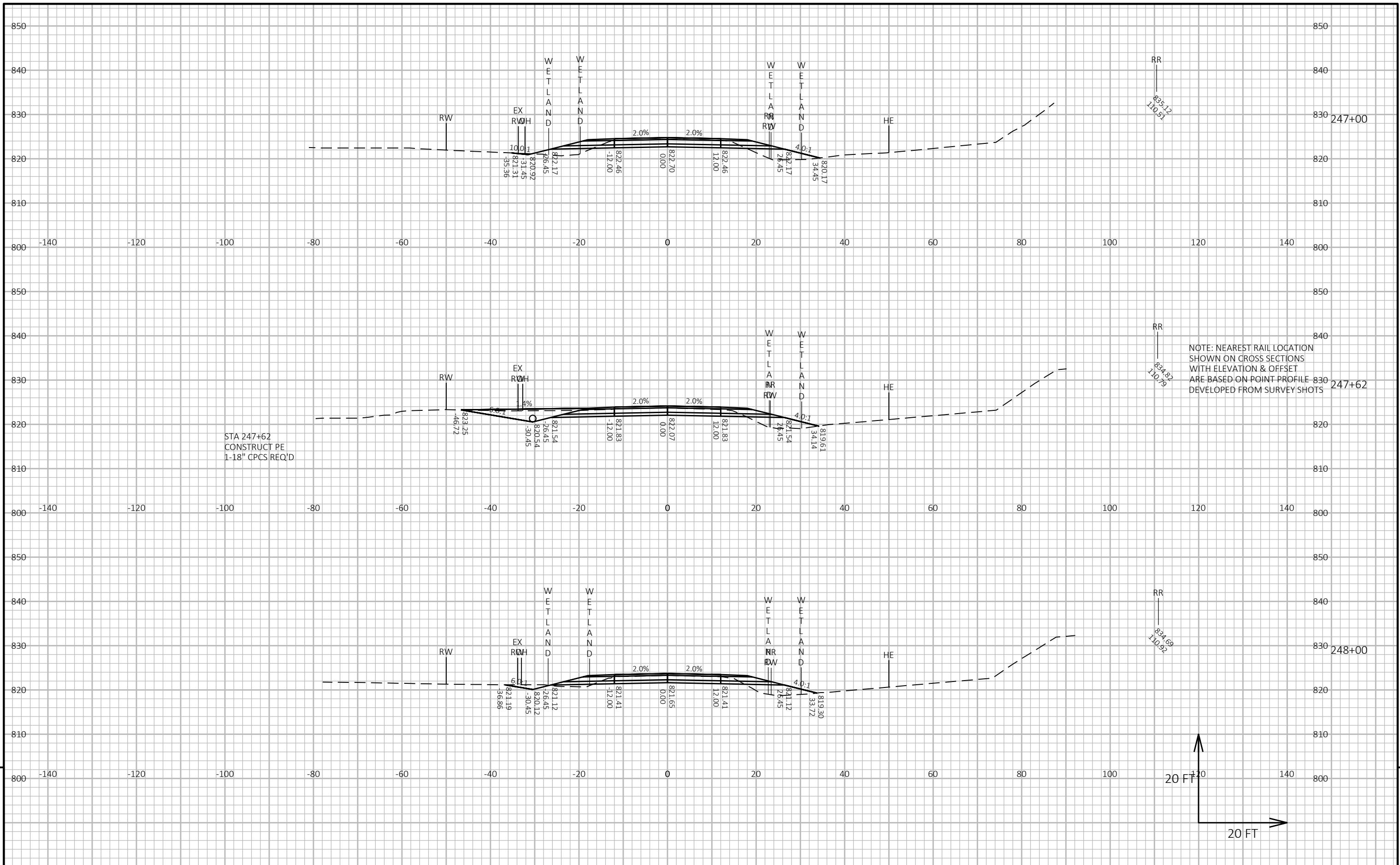


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PROJECT NO: 8758-00-72	HWY: CTH C	COUNTY: DOUGLAS	CROSS SECTIONS: CTH C	SHEET	E
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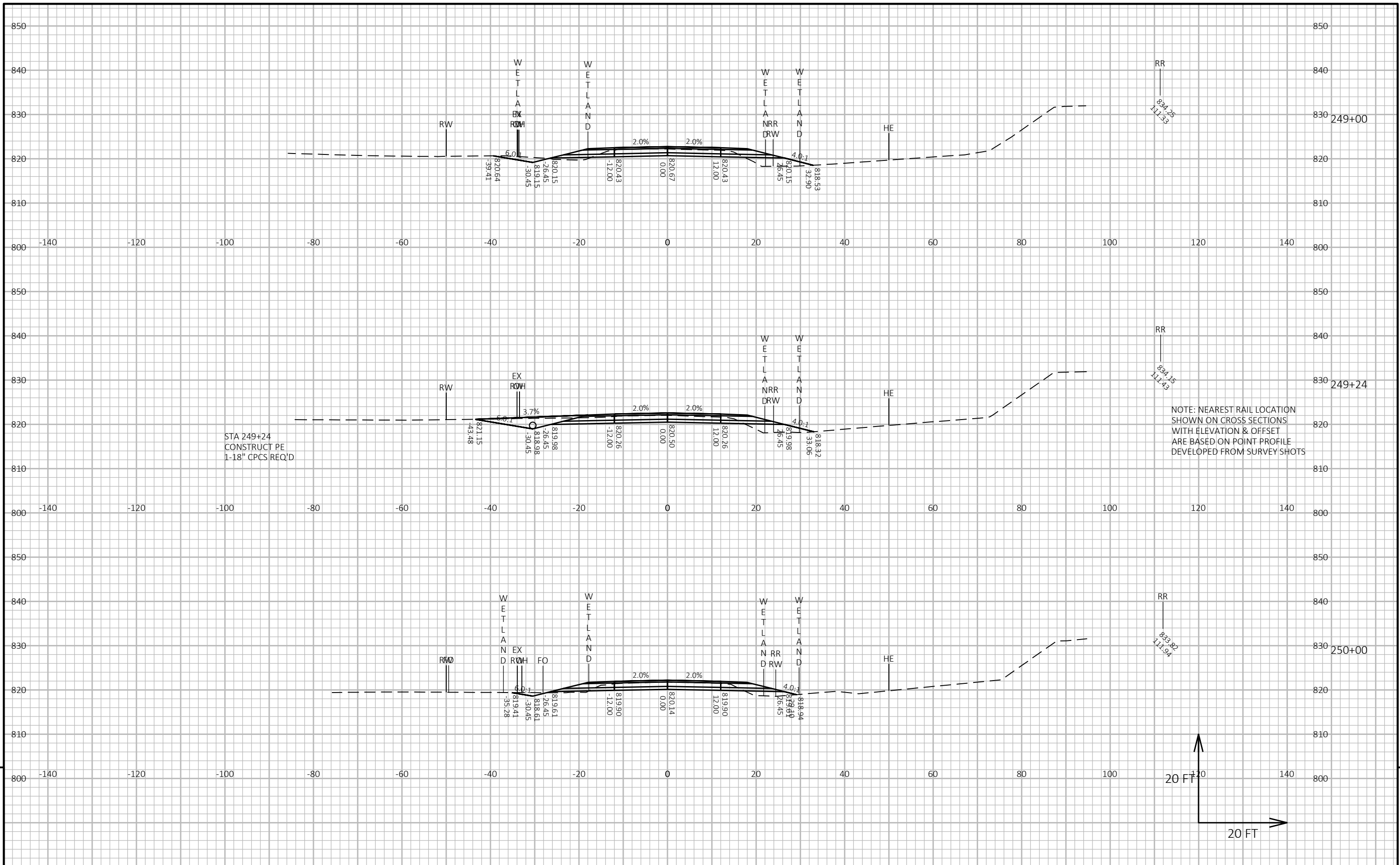




STA 247+62  
CONSTRUCT PE  
1-18" CPCS REQ'D

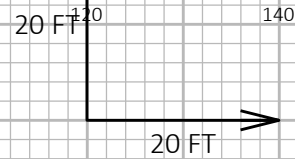
NOTE: NEAREST RAIL LOCATION  
SHOWN ON CROSS SECTIONS  
WITH ELEVATION & OFFSET  
ARE BASED ON POINT PROFILE 830  
DEVELOPED FROM SURVEY SHOTS

PROJECT NO: 8758-00-72	HWY: CTH C	COUNTY: DOUGLAS	CROSS SECTIONS: CTH C	SHEET	E
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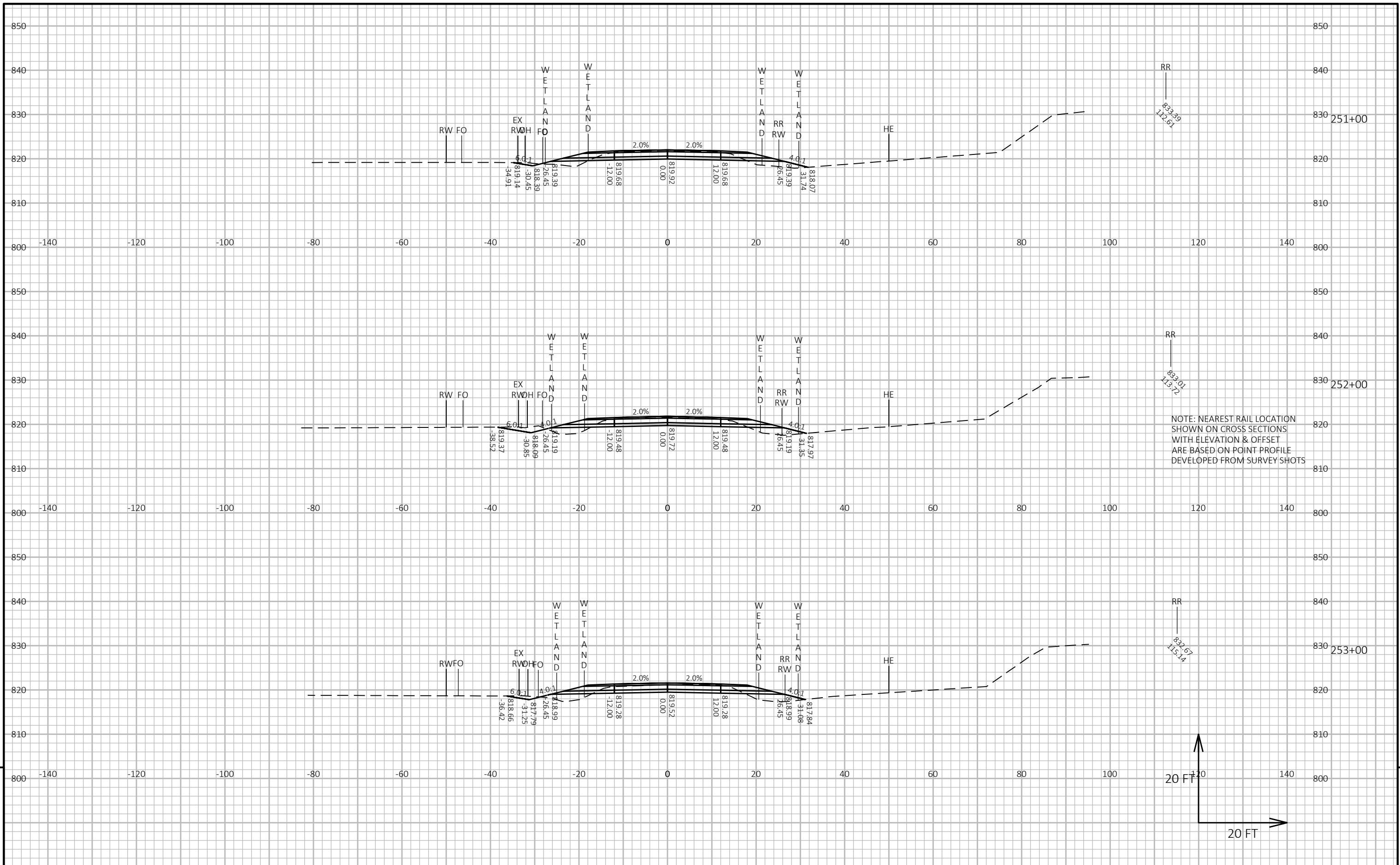


NOTE: NEAREST RAIL LOCATION SHOWN ON CROSS SECTIONS WITH ELEVATION & OFFSET ARE BASED ON POINT PROFILE DEVELOPED FROM SURVEY SHOTS

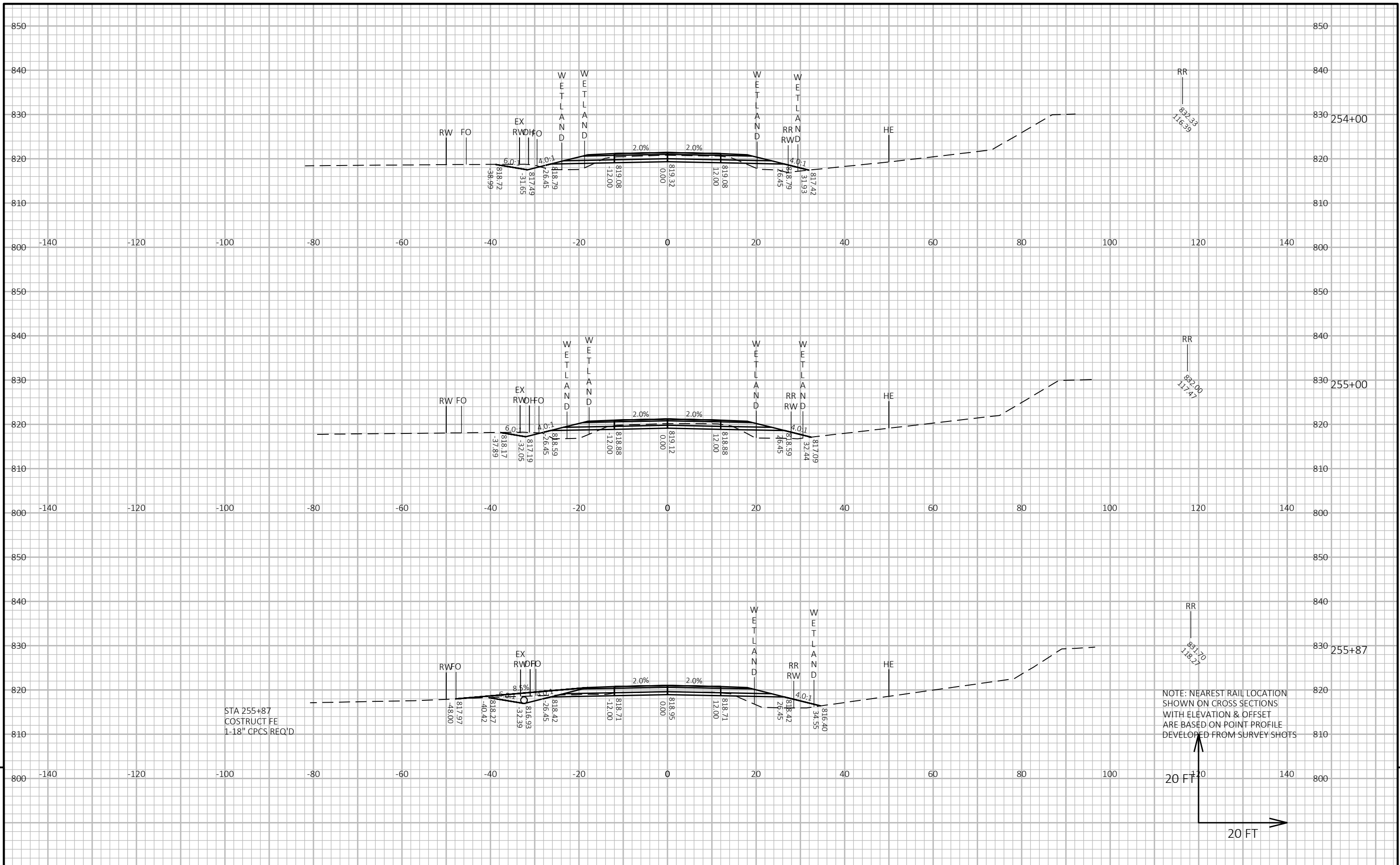
STA 249+24  
CONSTRUCT PE  
1-18" CPCS REQ'D



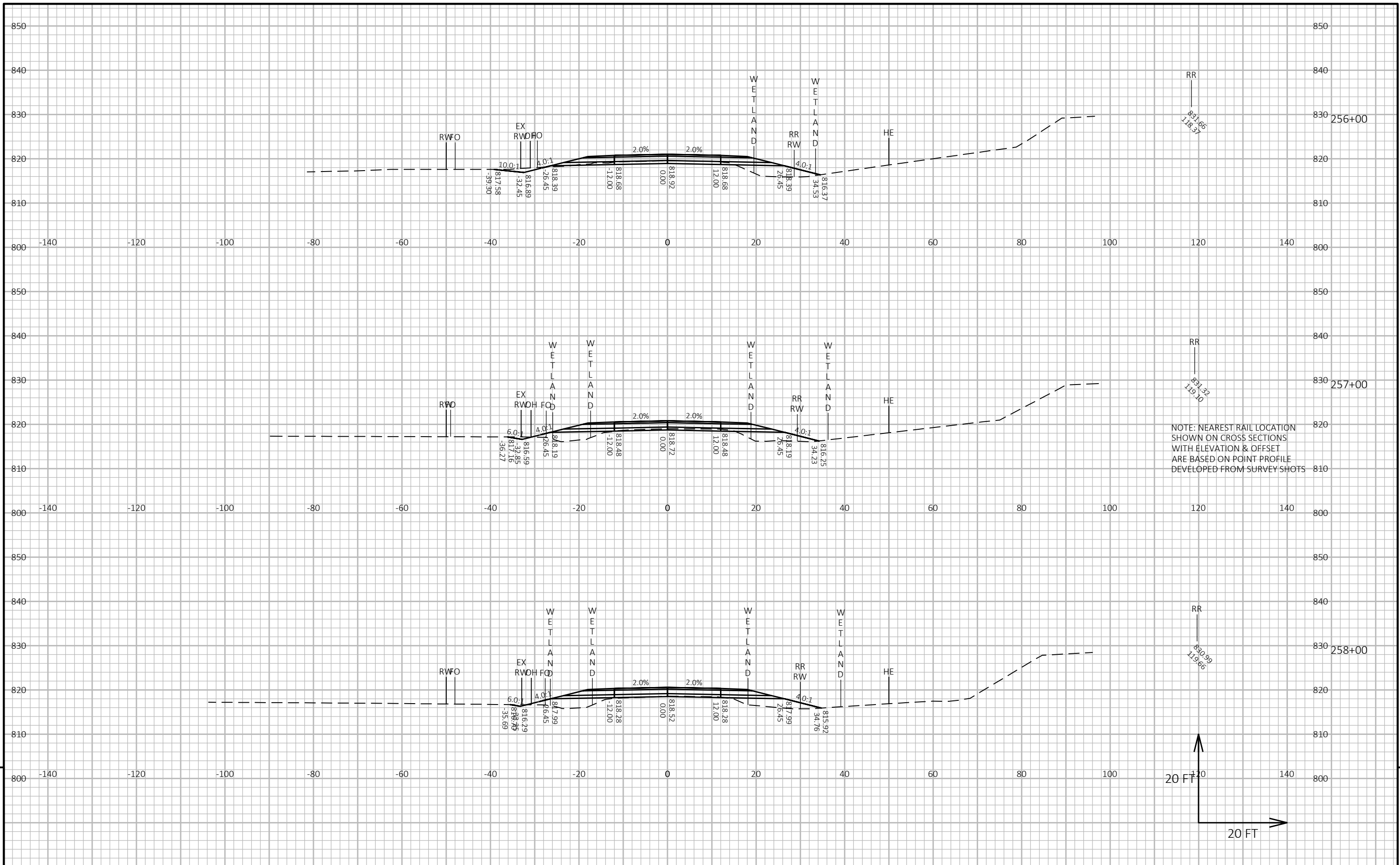
PROJECT NO: 8758-00-72	HWY: CTH C	COUNTY: DOUGLAS	CROSS SECTIONS: CTH C	SHEET	E
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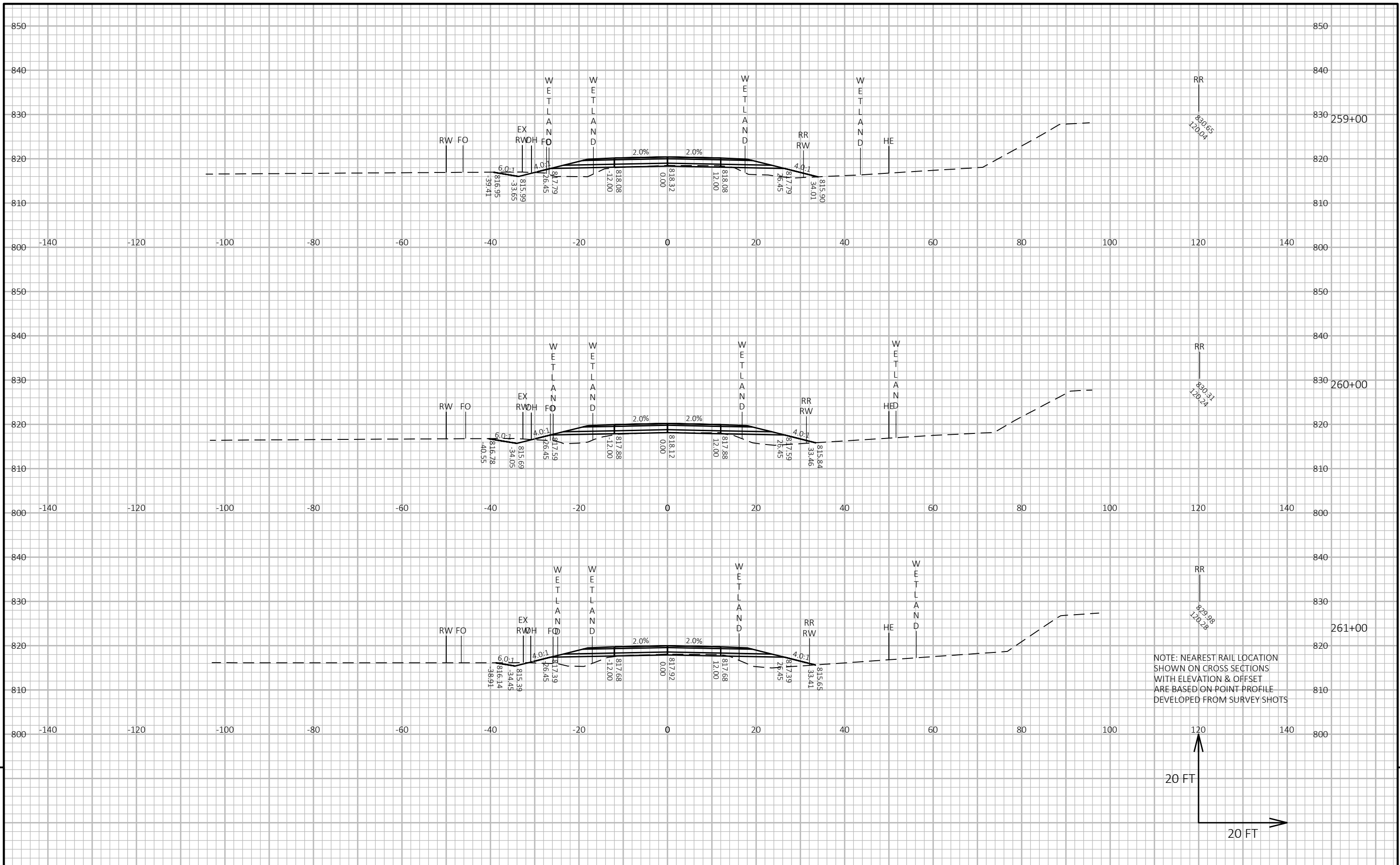
PROJECT NO: 8758-00-72	HWY: CTH C	COUNTY: DOUGLAS	CROSS SECTIONS: CTH C	SHEET 9
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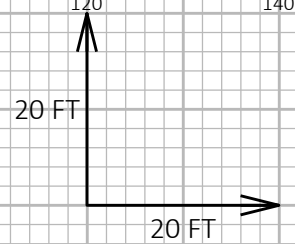
PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      CROSS SECTIONS: CTH C      SHEET: 9

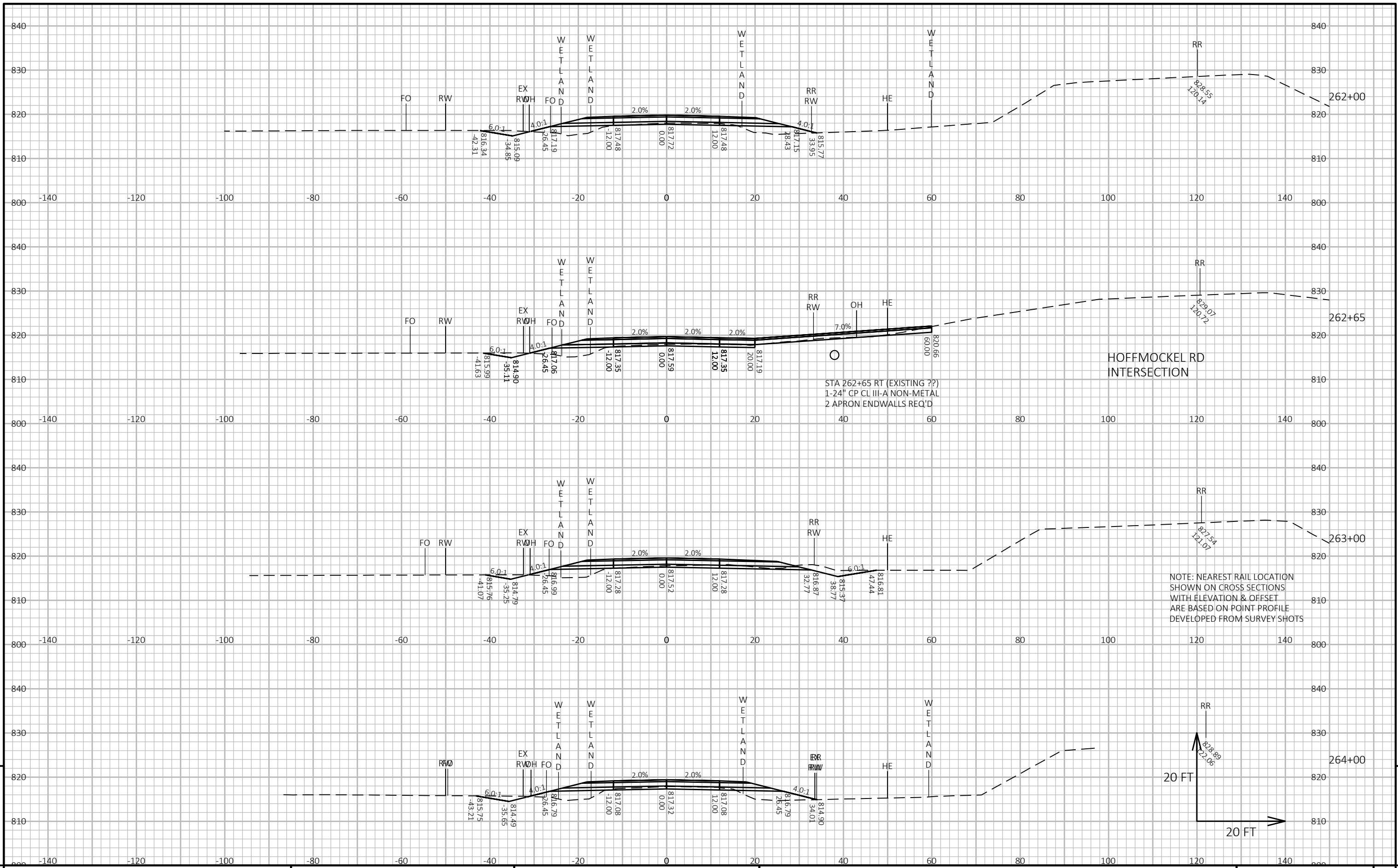


PROJECT NO: 8758-00-72	HWY: CTH C	COUNTY: DOUGLAS	CROSS SECTIONS: CTH C	SHEET 9
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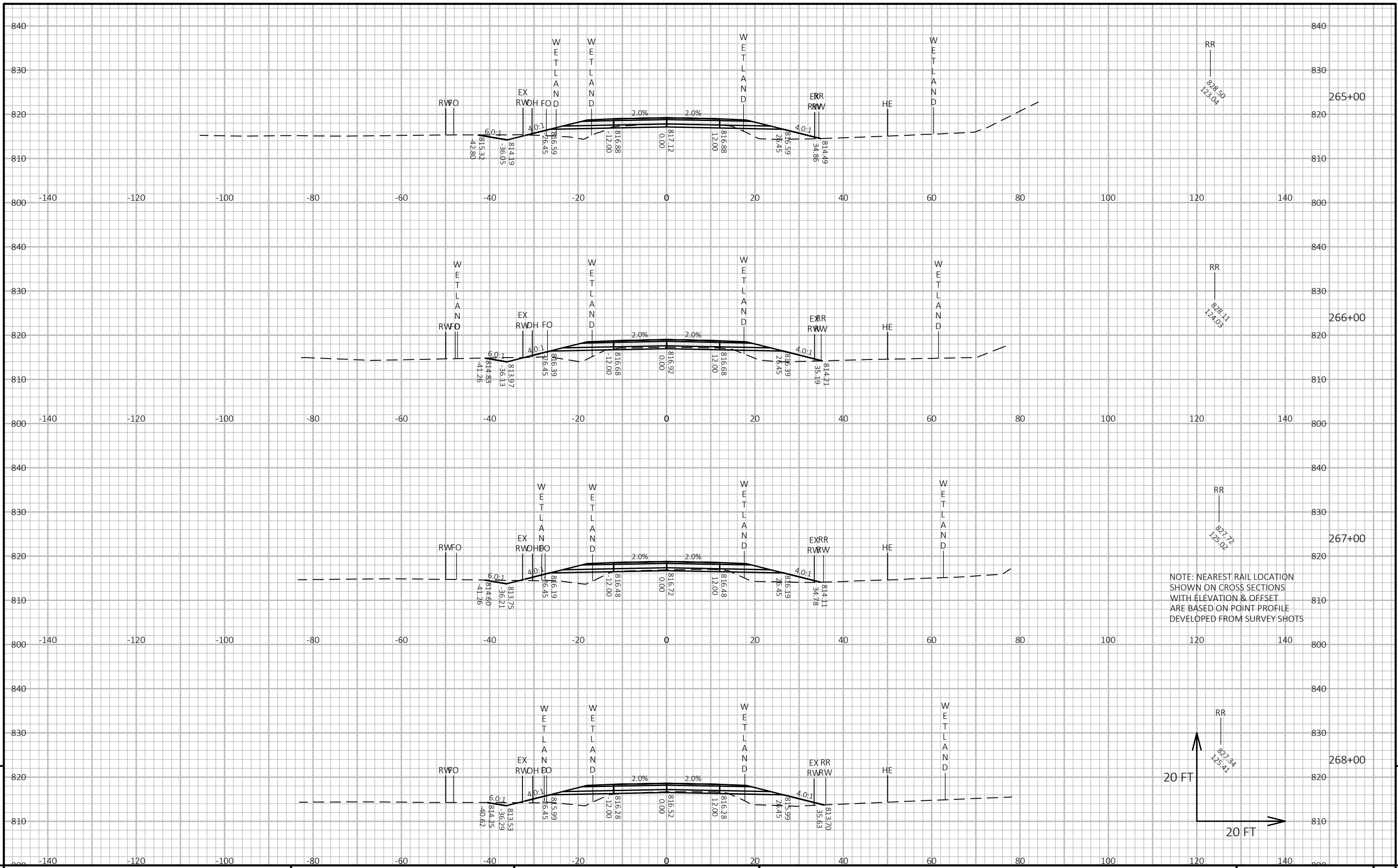


NOTE: NEAREST RAIL LOCATION SHOWN ON CROSS SECTIONS WITH ELEVATION & OFFSET ARE BASED ON POINT PROFILE DEVELOPED FROM SURVEY SHOTS



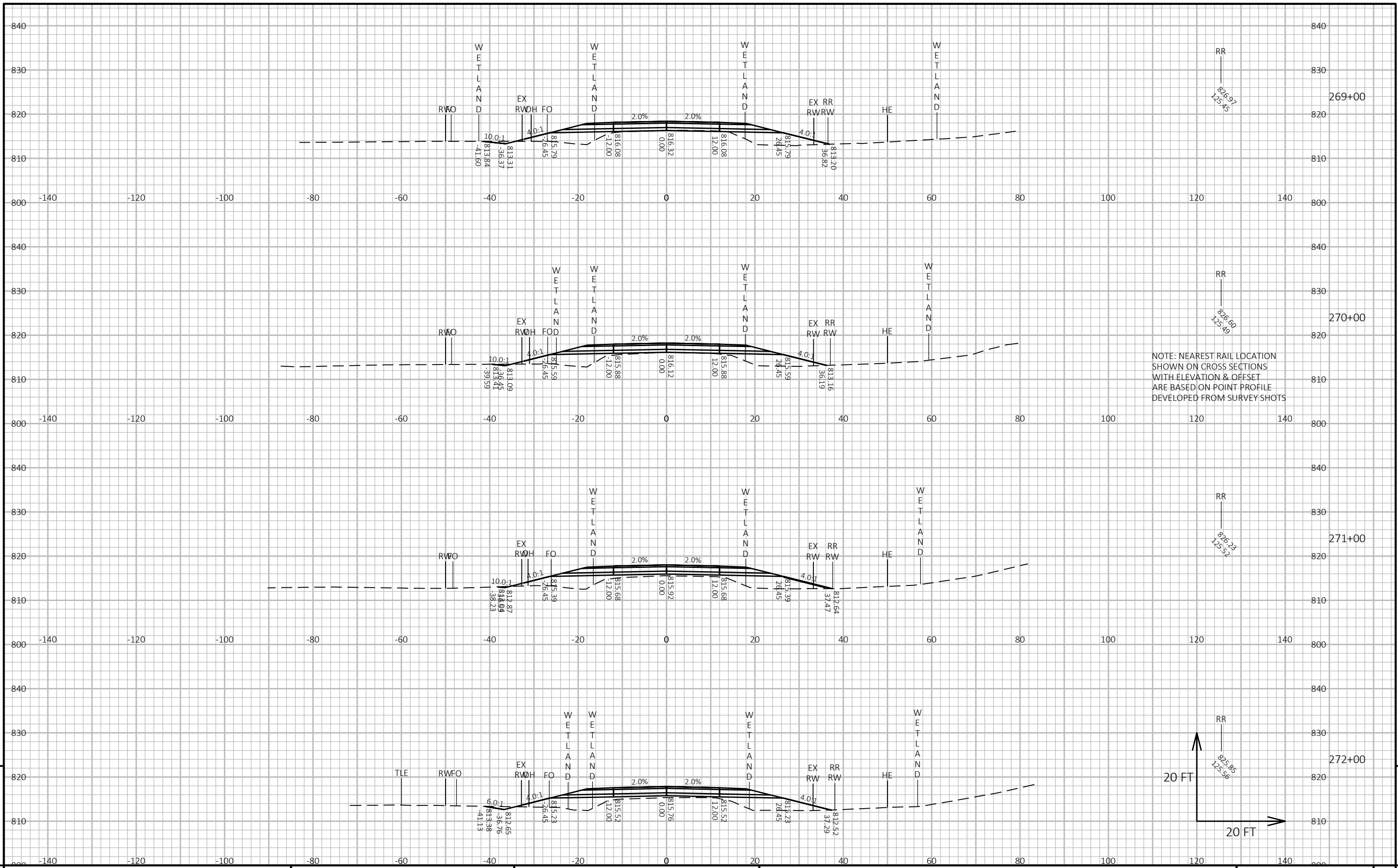


PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      CROSS SECTIONS: CTH C      SHEET 9

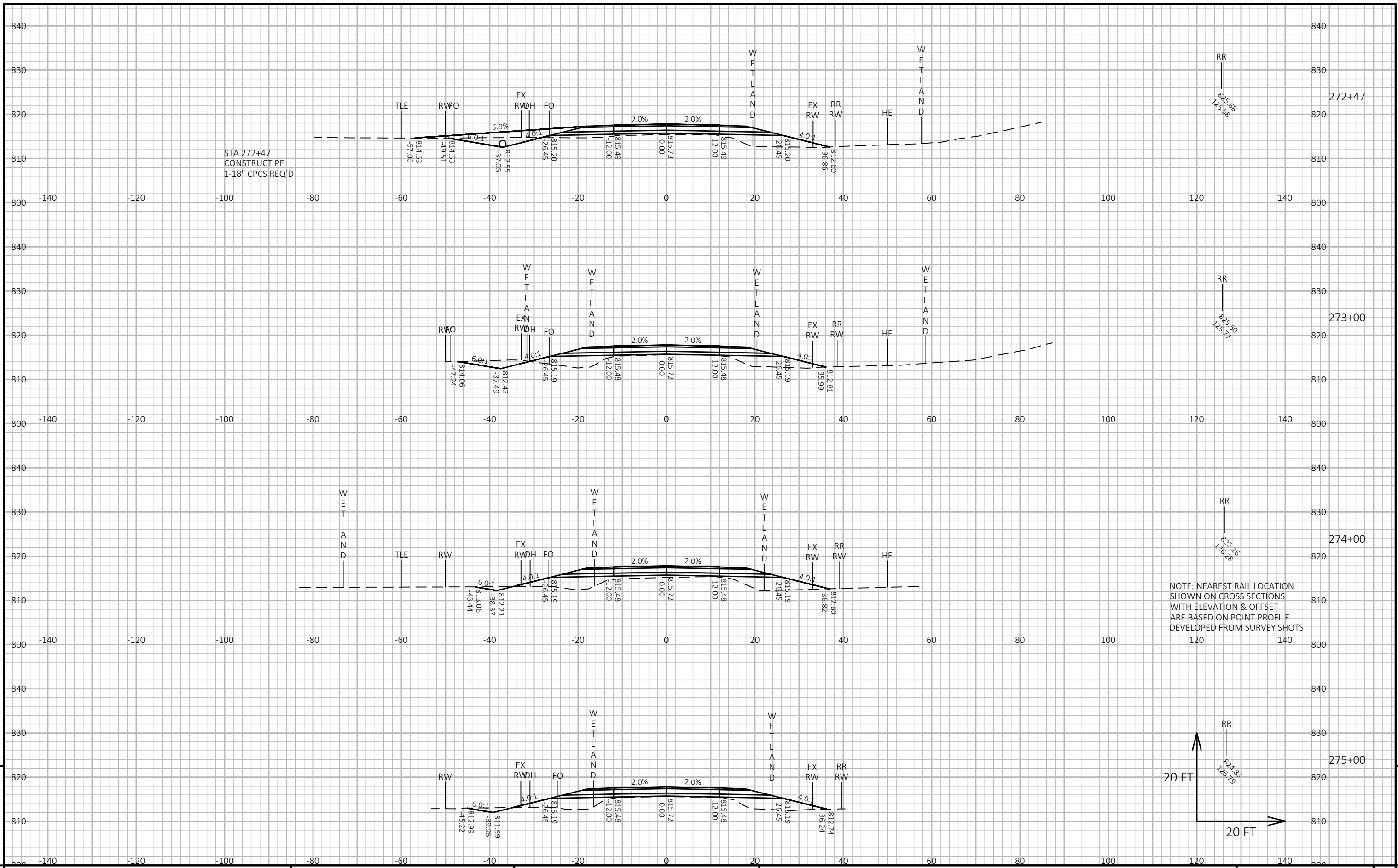


PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      CROSS SECTIONS: CTH C      SHEET      E

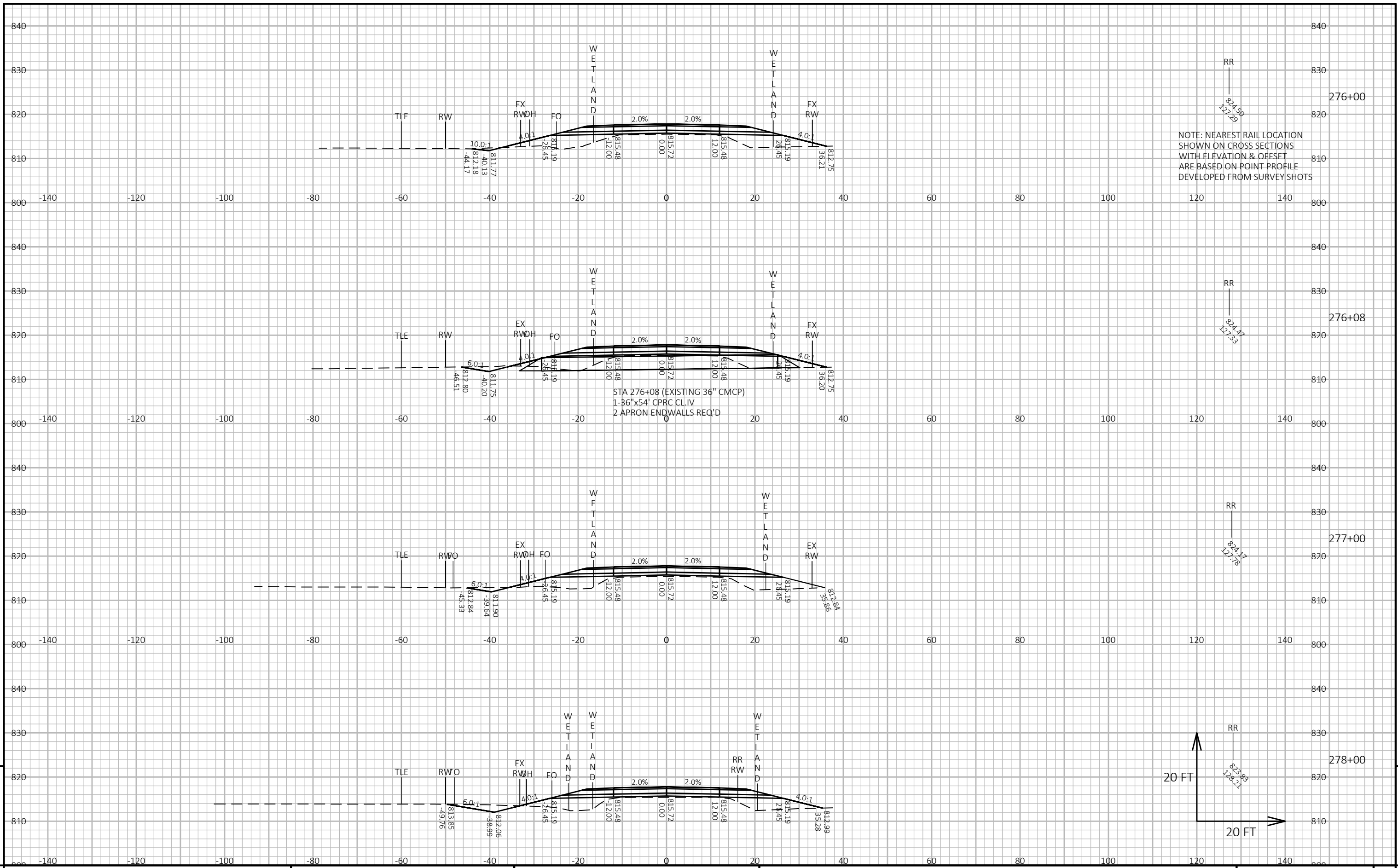




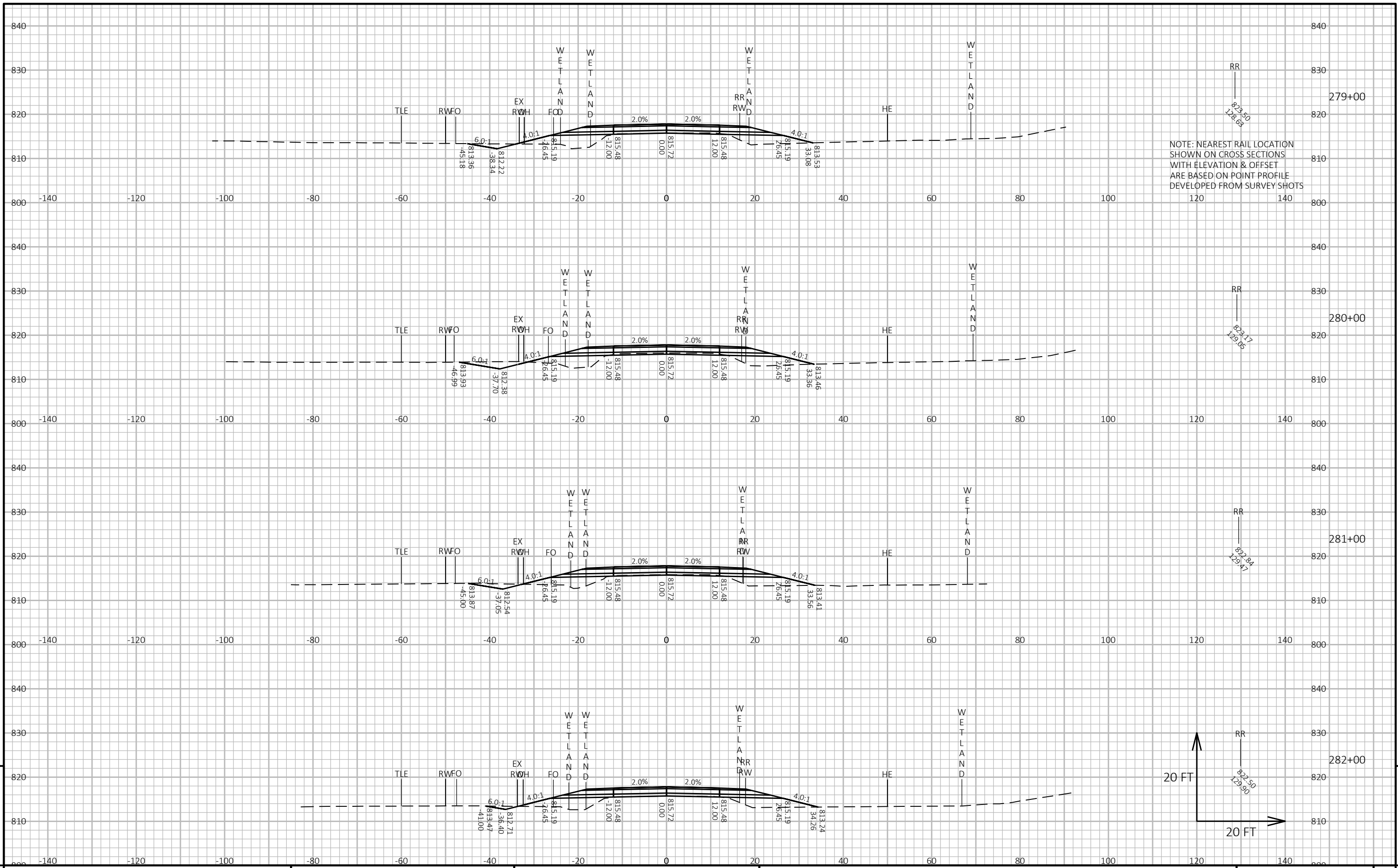
PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      CROSS SECTIONS: CTH C      SHEET      E



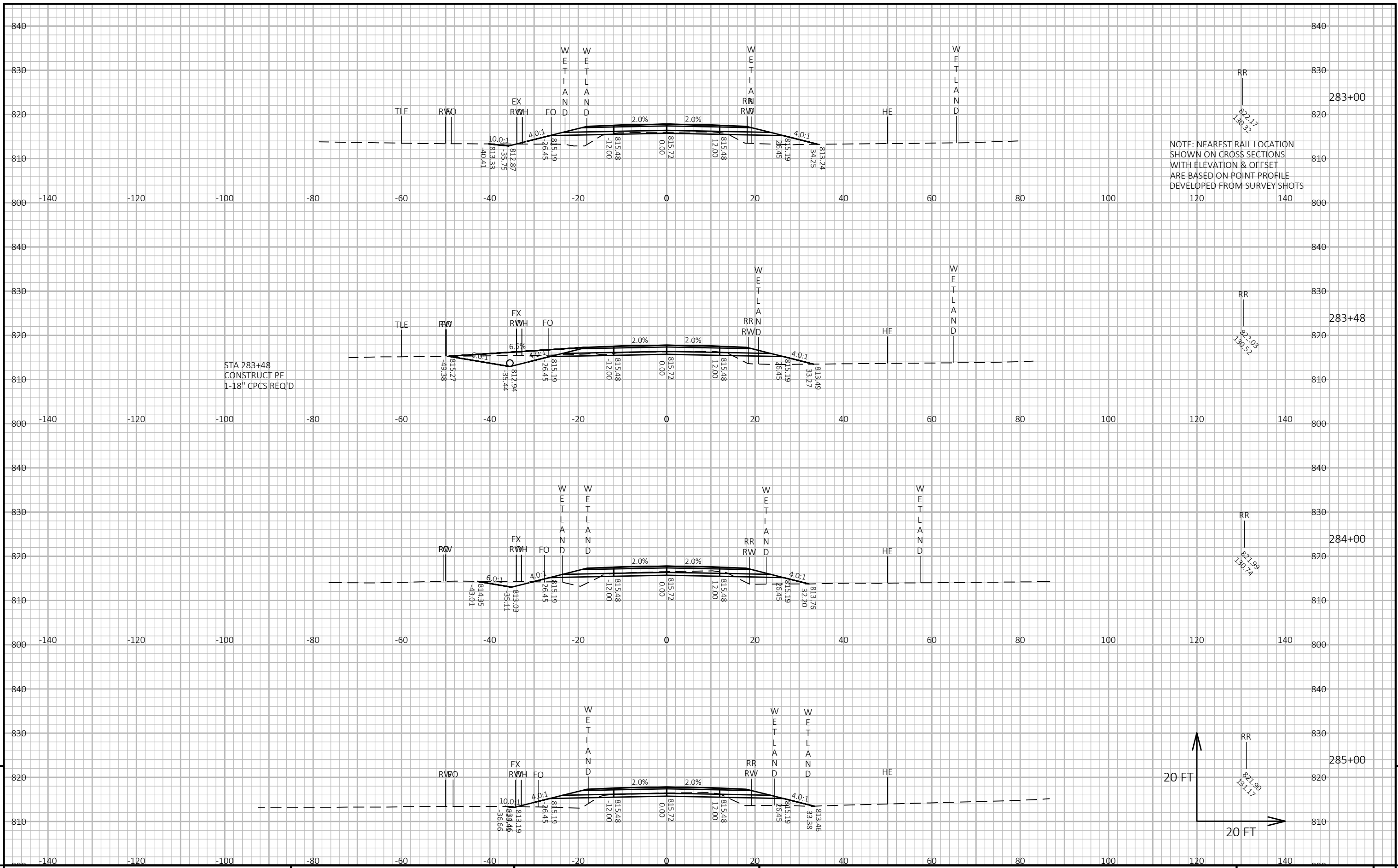
PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      CROSS SECTIONS: CTH C      SHEET      E



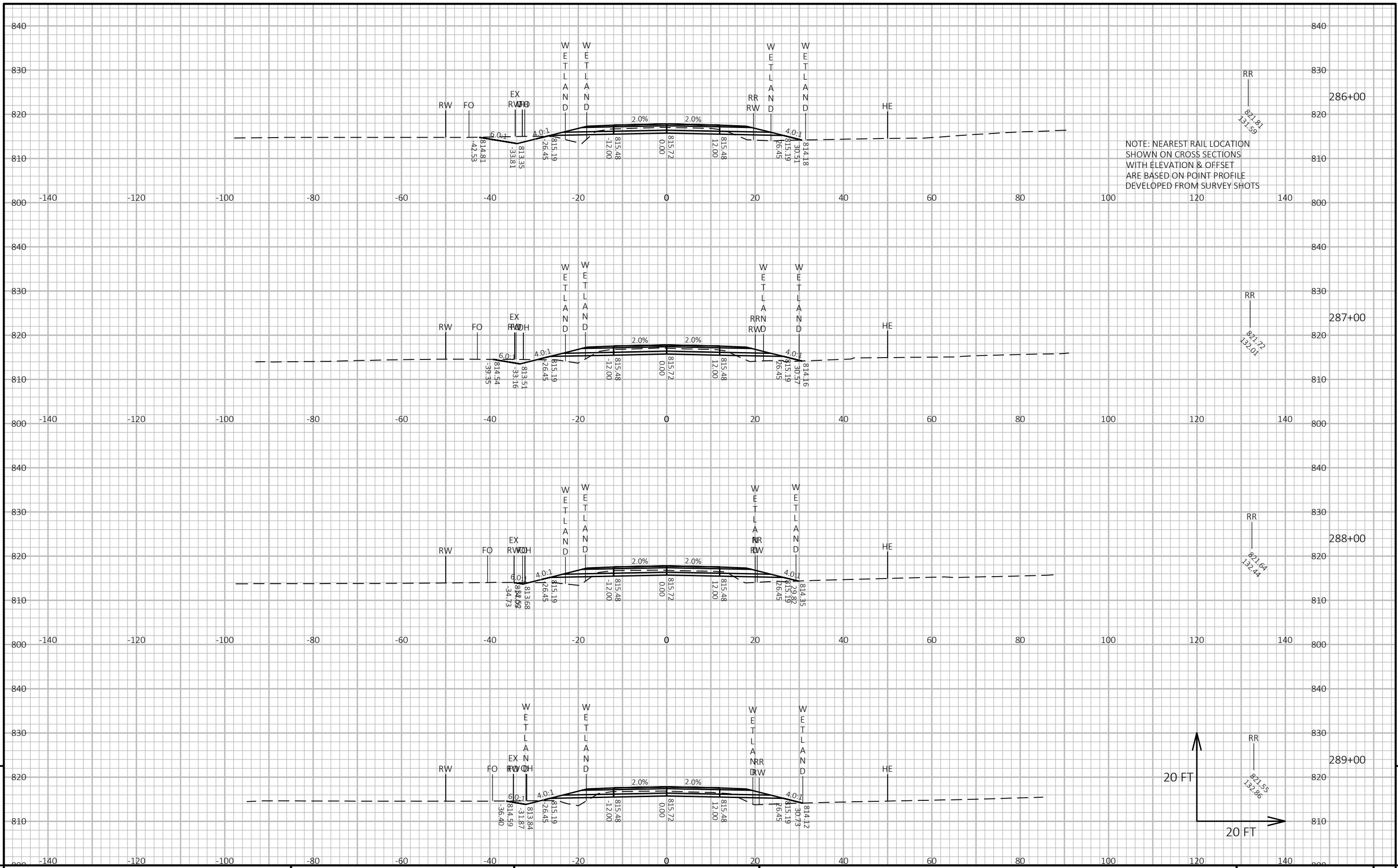
PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      CROSS SECTIONS: CTH C      SHEET      E



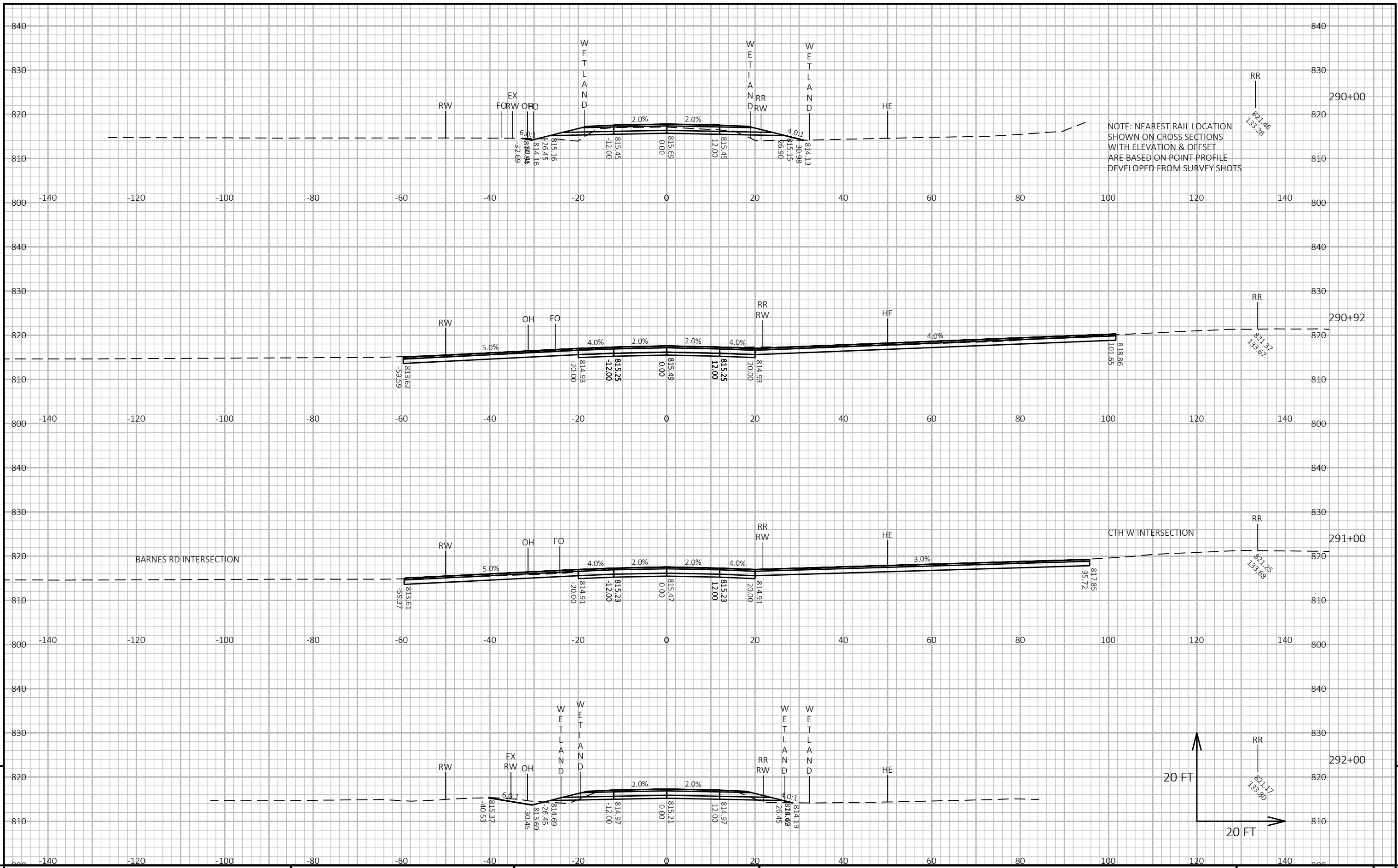
PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      CROSS SECTIONS: CTH C      SHEET      E



STA 283+48  
CONSTRUCT PE  
1-18" CPCS REQ'D

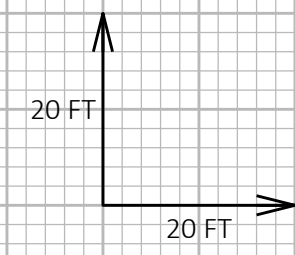
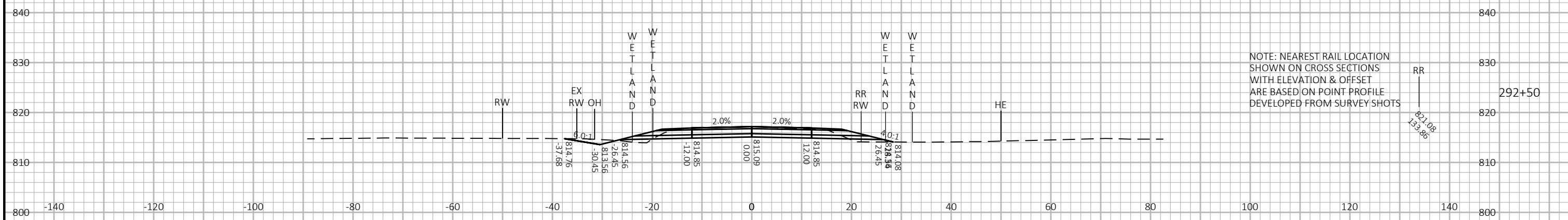
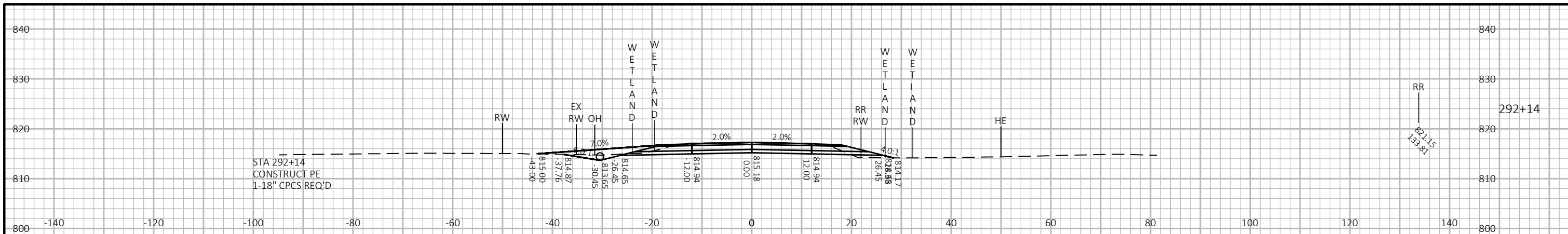


PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      CROSS SECTIONS: CTH C      SHEET      E



PROJECT NO: 8758-00-72      HWY: CTH C      COUNTY: DOUGLAS      CROSS SECTIONS: CTH C      SHEET 9

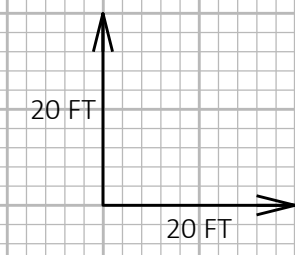
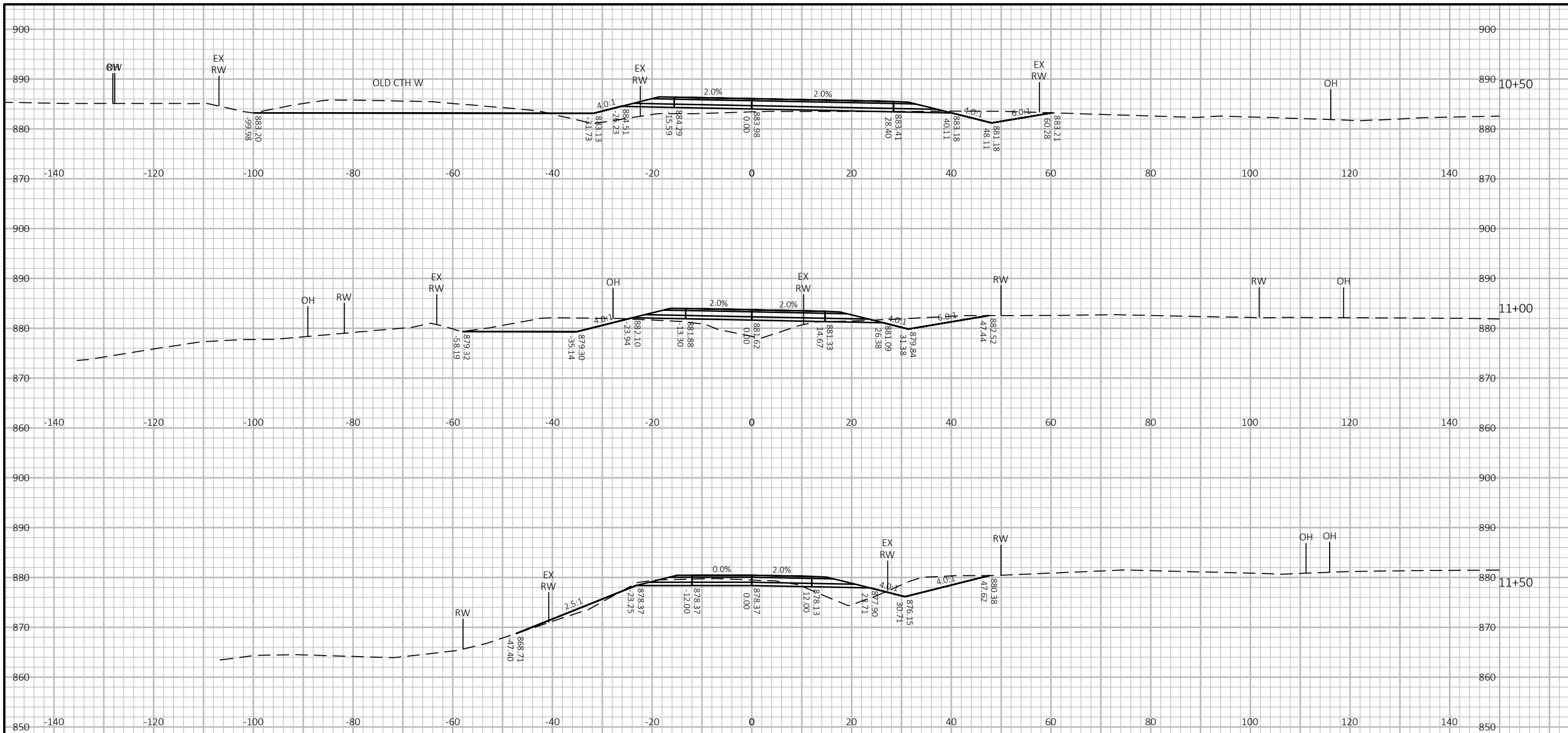
FILE NAME: I:\410789\_DOUGLAS CTH\C3D\SHEETSPLAN\SEGMENT 1\090101-XS.DWG      PLOT DATE: 9/21/2023 8:27 AM      PLOT BY: HEDRINGTON, MARK      PLOT NAME:      PLOT SCALE: 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.      WISDOT/CADD SHEET 49



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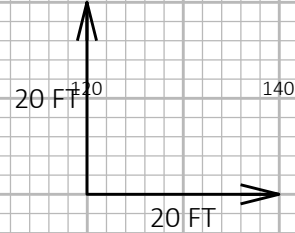
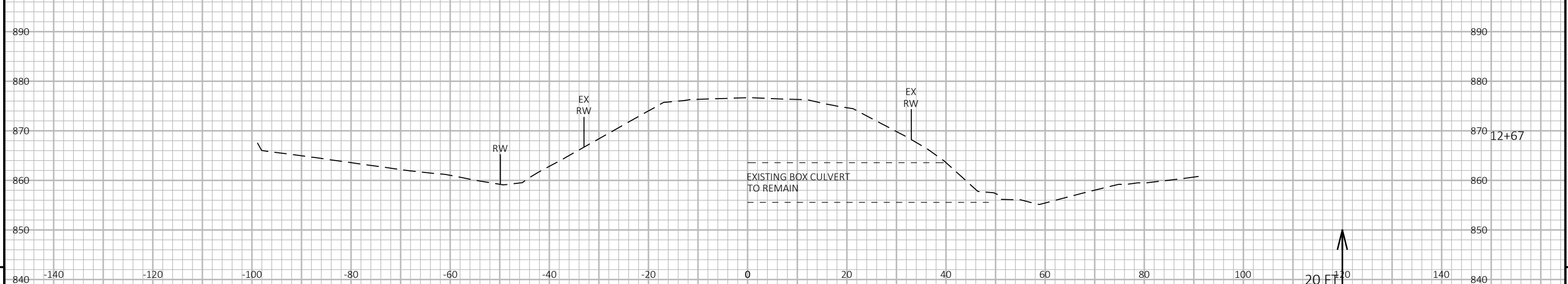
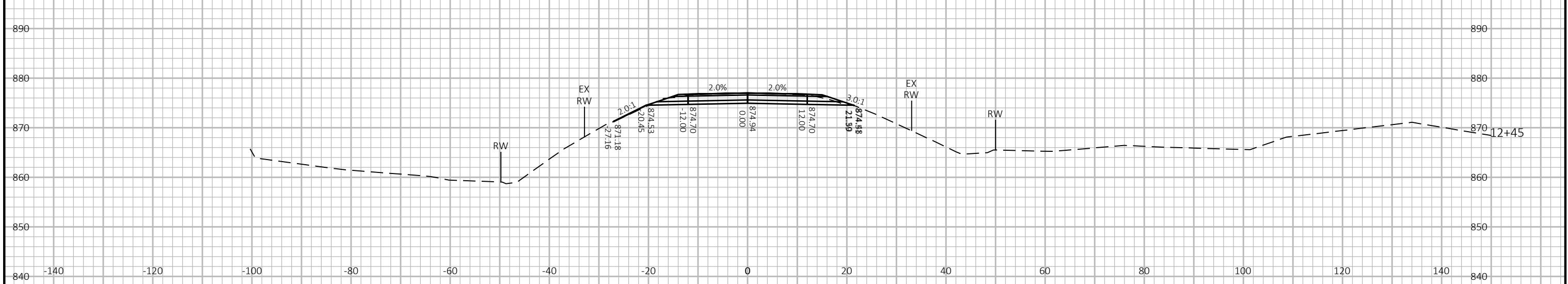
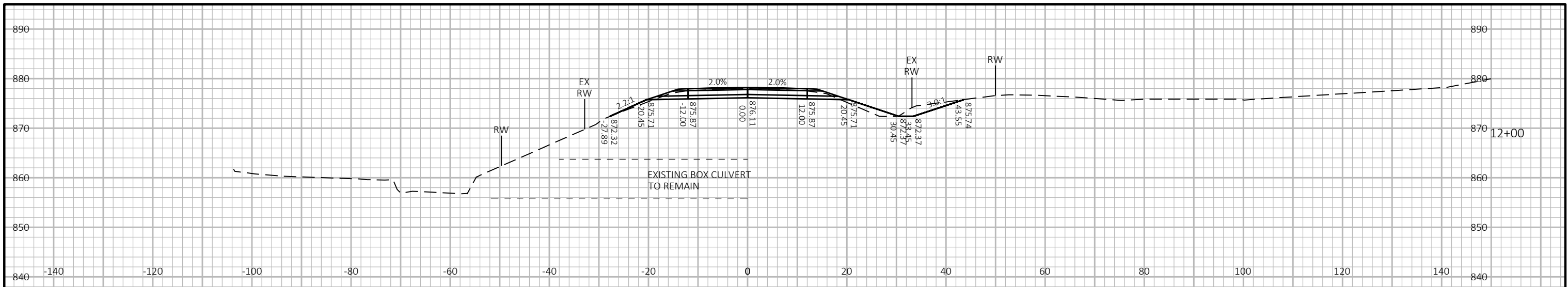




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PROJECT NO: 8758-00-72	HWY: CTH C	COUNTY: DOUGLAS	CROSS SECTIONS: CTH W	SHEET	E
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# Notes



## ***Wisconsin Department of Transportation***

Dedicated people creating transportation solutions through innovation and exceptional service.

<http://www.dot.wisconsin.gov>