EAU

JANUARY 2018

PROJECT ID: 7130-00-74, 7130-00-76, 7130-00-77

WITH: N/A

COUNTY: TREMPEALEAU

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 = 286

26

N

DESIGN DESIGNATION

A.A.D.T.	2018	=	7600
A.A.D.T.	2038	=	9600
D.H.V.		=	12.4
D.D.		=	60/40
T.		=	14.8%
DESIGN SPEED		=	55 MPH
ESALS		=	4,336,200

CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE (300'EB')
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES

- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
7130-00-74	WISC 2018066	1
7130-00-76	WISC 2018067	1
7130-00-77	WISC 2018068	1

CENTERVILLE - INDEPENDENCE

STH 95 TO A STREET	TURTON CREEK TO CTH X	CTH X TO A STREET
STH 93	STH 93	STH 93
TREMPEALEAU	TREMPEALEAU	TREMPEALEAU
STATE PROJECT NUMBER 7130-00-74	STATE PROJECT NUMBER 7130-00-76	STATE PROJECT NUMBER 7130-00-77

END PROJECT 7130-00-77
STA. 449+14.70

BEGIN PROJECT 7130-00-77
STA. 425+80.86

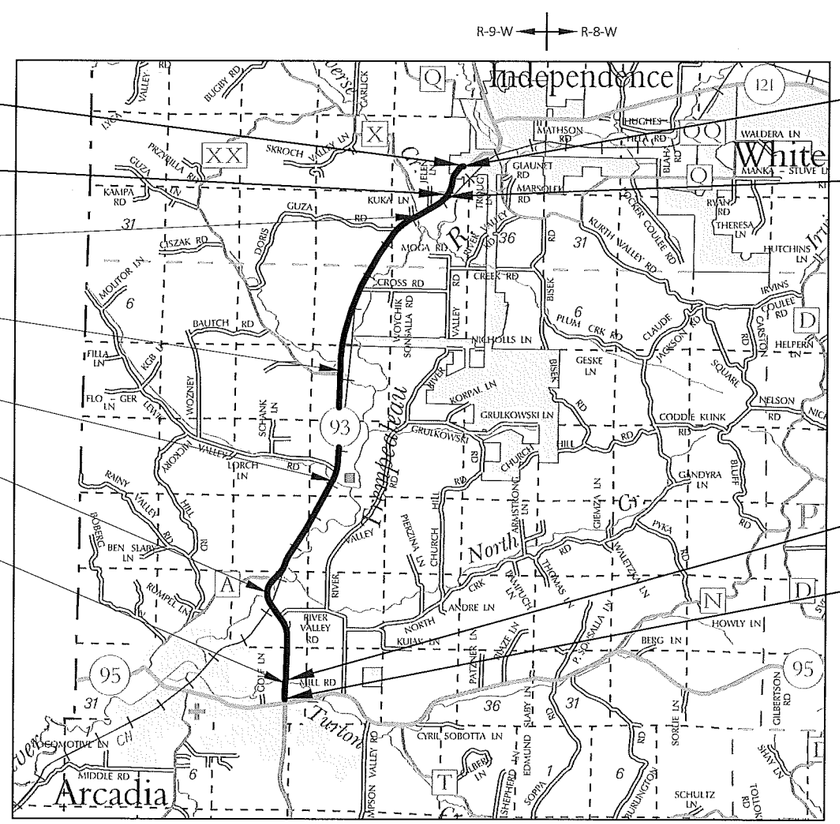
NET EXCEPTION TO CL LENGTH
STA 398+26 - STA 399+28
B-61-0072

NET EXCEPTION TO CL LENGTH
STA 273+58 - STA 274+18
B-61-0076

NET EXCEPTION TO CL LENGTH
STA 197+05 - STA 197+63
B-61-0075

NET EXCEPTION TO CL LENGTH
STA 101+47 - STA 104+42
B-61-0054

NET EXCEPTION TO CL LENGTH
STA 38+68 - STA 39+55
B-61-0074



END PROJECT 7130-00-74
STA. 449+14.70

END PROJECT 7130-00-76
STA. 423+80.86

BEGIN PROJECT 7130-00-76
STA. 39+98.14

BEGIN PROJECT 7130-00-74
STA. 27+94.00

T-22-N

T-21-N

T-21-N

T-20-N

LAYOUT

SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE = 7.86 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, TREMPEALEAU COUNTY, NAD83 (2016), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WisDOT
Designer	Matthew Payne
Project Manager	Nicole Passuello
Regional Examiner	Jennifer Oldenburg
Regional Supervisor	Tim Mason

APPROVED FOR THE DEPARTMENT

DATE: 11/6/17 Nicole Passuello (Signature)

E

LIST OF STANDARD ABBREVIATIONS

ABUT.	ABUTMENT
AGG.	AGGREGATE
AH.	AHEAD
APPROX.	APPROXIMATE
A.E.W.	APRON ENDWALL
ASPH.	ASPHALTIC
A.D.T.	AVERAGE DAILY TRAFFIC
AZ.	AZIMUTH
BK.	BACK
BEG.	BEGIN
B.M.	BENCH MARK
C/L	CENTER LINE
CONC.	CONCRETE
CONST.	CONSTRUCTION
CO.	COUNTY
C.T.H.	COUNTY TRUNK HIGHWAY
X-SEC.	CROSS SECTION
CR.	CRUSHED
CFS	CUBIC FEET/SECOND
C.Y., CU. YD.	CUBIC YARD
CULV.	CULVERT
C.P.	CULVERT PIPE
D.O.T.	DEPARTMENT OF TRANSPORTATION
D.H.V.	DESIGN HOUR VOLUME
DIA.	DIAMETER
D.	DIRECTIONAL DISTRIBUTION
DISCH. OR DIS.	DISCHARGE
EA.	EACH
ELECT.	ELECTRIC
EL. OR ELEV.	ELEVATION
EMB.	EMBANKMENT
E.B.S.	EXCAVATION BELOW SUBGRADE
EXIST.	EXISTING
FERT.	FERTILIZE
F.E.	FIELD ENTRANCE
FIN.	FINISHED
FT.	FOOT
F.L.	FLOW LINE
GA.	GAUGE
HORIZ.	HORIZONTAL
CWT.	HUNDREDWEIGHT
INL.	INLET
LT.	LEFT
L.H.F.	LEFT-HAND FORWARD
LIN.	LINEAR
LIN. FT.	LINEAR FOOT
L.S.	LUMP SUM
MAX.	MAXIMUM
MI.	MILE
MISC.	MISCELLANEOUS
N.E.	NORTH EAST
N.W.	NORTH WEST
PAV'T	PAVEMENT
P.C.	POINT OF CURVATURE
P.I.	POINT OF INTERSECTION
P.T.	POINT OF TANGENCY
P.O.T.	POINT ON TANGENT
LB.	POUND
P.E.	PRIVATE ENTRANCE
PROJ.	PROJECT
R.	RANGE
REQ'D	REQUIRED
RT.	RIGHT
R.H.F.	RIGHT-HAND FORWARD
R/W	RIGHT OF WAY
RD.	ROAD
SHR.	SHRINKAGE
SL.	SLOPE
STD.	STANDARD
S.D.D.	STANDARD DETAIL DRAWINGS
S.T.H.	STATE TRUNK HIGHWAY
STA.	STATION
S.P.P.A.	STRUCTURAL PLATE PIPE ARCH
STRUCT.	STRUCTURE
SURF.	SURFACE
TEL.	TELEPHONE
TN.	TOWN
T.	TRUCKS (PERCENT OF)
UNCL.	UNCLASSIFIED
U.G.	UNDERGROUND
V.	VELOCITY OR DESIGN SPEED
V.C.	VERTICAL CURVE

ORDER OF DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
INTERSECTION DETAILS
EROSION CONTROL & DRAINAGE
PERMANENT SIGNING
PAVEMENT MARKING
ALIGNMENT DETAILS

GENERAL NOTES

NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE BEEN DESIGNATED FOR REMOVAL BY THE ENGINEER.

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

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

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO USGS NAVD 88.

SILT FENCE SHALL BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER IN THE FIELD. SILT FENCE SHALL BE PLACED PRIOR TO CONSTRUCTION.

ADJUST DITCH GRADING AS NECESSARY TO FIT FIELD CONDITIONS AND AS DIRECTED BY THE ENGINEER IN THE FIELD.

ACCESS TO ALL RESIDENCES SHALL BE MAINTAINED DURING CONSTRUCTION.

COORDINATES AND BEARINGS ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), TREMPEALEAU COUNTY

INLET AND OUTLET ELEVATIONS FOR CULVERT PIPES AS SHOWN ON THE PLAN MAY BE ADJUSTED TO FIT EXISTING FIELD CONDITIONS.

THE EXACT LOCATION AND WIDTH OF PRIVATE, COMMERCIAL, AND FIELD ENTRANCES TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE 3" HMA PAVEMENT 4 MT 58-34 H SHALL CONSIST OF A 1.25" LOWER LAYER AND A 1.75" UPPER LAYER. THE ADDED LANES WILL CONSIST OF A 1.75" UPPER LAYER OF 4 MT 58-34 H AND A 6.25" LOWER LAYER OF 3 MT 58-34 H. THE LIFTS SHALL BE DETERMINED BY THE CONTRACTOR BASED ON STANDARD SPECIFICATIONS.

CONTACTS

DNR LIAISON

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
AMY LESIK
1300 WEST CLAIREMONT AVENUE
EAU CLAIRE, WI 54701
PHONE: (715) 836-6571
EMAIL: AmyL.Lesik@wisconsin.gov

UTILITIES

ELECTRIC

ARCADIA ELECTRIC UTILITY
TIM PUTZ
203 W MAIN ST
ARCADIA, WI 54612-1329
PHONE: (608) 323-7347
EMAIL: aeutjp@triwest.net

DAIRYLAND POWER COOPERATIVE
STEVEN M. SCHAUER
3200 EAST AVENUE S
PO BOX 817
LA CROSSE, WI 54602-0817
PHONE: (608)-788-4000, EXT. 458 (OFFICE)
EMAIL: Steve.Schauer@DairylandPower.com

RIVERLAND ENERGY COOPERATIVE
TIM HOLTAN
N28988 STATE ROAD 93
PO BOX 277
ARCADIA, WI 54612-0277
PHONE: (608) 323-3381 (OFFICE)
PHONE: (608) 797-0102 (MOBILE)
EMAIL: tholtan@riverlandenergy.com

CC ALL XCEL ENERGY CORRESPONDENCE TO:
XCEL ENERGY
DAWN SCHULTZ
1414 W HAMILTON AVE
PO BOX 8
EAU CLAIRE, WI 54702-0008
PHONE: (15) 737-2482
EMAIL: dawn.schultx@xcelenergy.com

XCEL ENERGY
BRUCE ZEMKE
414 W NICOLLET MALL, 5TH FLOOR
MINNEAPOLIS, MN 55401
PHONE: (612) 330-7815 (OFFICE)
PHONE: (651) 214-2620 (MOBILE)
EMAIL: bruce.m.zemke@xcelenergy.com

XCEL ENERGY
BRUCE ZEMKE
414 W NICOLLET MALL, 5TH FLOOR
MINNEAPOLIS, MN 55401
PHONE: (612) 330-7815 (OFFICE)
PHONE: (651) 214-2620 (MOBILE)
EMAIL: bruce.m.zemke@xcelenergy.com

XCEL ENERGY
SCOTT ROBERTS
3215 COMMERCE ST
LA CROSSE, WI 54603
PHONE: (608) 789-3625 (OFFICE)
PHONE: (608) 518-0806 (MOBILE)
EMAIL: scott.w.roberts@xcelenergy.com

COMMUNICATIONS

CENTURYLINK INC.
BRIAN STELPLUGH
333 N FRONT ST
LA CROSSE, WI 54601
PHONE: (608) 796-5142 (OFFICE)
PHONE: (608) 780-1238 (MOBILE)
EMAIL: brian.stelplugh@centurylink.com
24-HOUR EMERGENCY REPAIR 800-824-2877

TRI-COUNTY COMMUNICATIONS COOPERATIVE
BRIAN MELSNESS
23451 WHITEHALL ROAD
PO BOX 727
INDEPENDENCE, WI 54747-0727
PHONE: (715) 695-2691 (OFFICE)
PHONE: (715) 530-0081 (MOBILE)
EMAIL: bmelsness@tcc.coop

GAS/PETROLEUM

MIDWEST NATURAL GAS
MIKE MARGAN
23389 WHITEHALL RD
INDEPENDENCE, WI 54747
PHONE: (715) 985-5500 (OFFICE)
PHONE: (608) 769-5840 (MOBILE)
EMAIL: mikem@midwestnaturalgas.com
24-HOUR EMERGENCY (GAS) 877-817-3119

NORTHERN NATURAL GAS COMPANY
SCOTT MAYER
4685 212TH STREET WEST
FARMINGTON, MN 55024
PHONE: (651) 463-7126
EMAIL: scott. mayer@nngco.com
24-HOUR EMERGENCY (GAS) 888-367-6671

SEWER AND WATER

CITY OF ARCADIA WATER & SEWER UTILITY
GARY SKROCH
401 S SOBOTTA STREET
ARCADIA, WI 54612
PHONE: (608) 323-3452
EMAIL: rkdwater@triwest.net

RAILROAD

* WISCONSIN CENTRAL LTD
JACKIE MACEWICZ
1625 DEPOT STREET
STEVENS POINT, WI 54481
PHONE: (715) 345-2503
EMAIL: jackie.macewicz@cn.ca

WCL (CN) CALL BEFORE YOU DIG
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WCL (CN) IS NOT A PART OF DIGGERS HOTLINE

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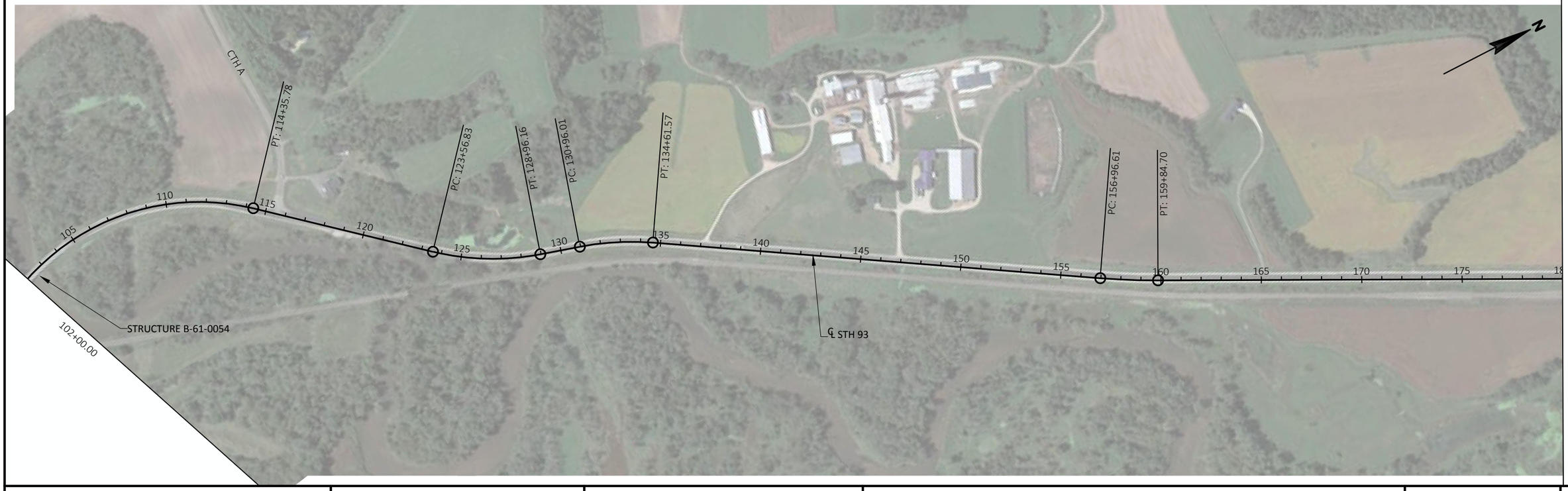
* DENOTES UTILITY IS NOT A MEMBER OF DIGGERS HOTLINE



PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN OVERVIEW	SHEET	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\020000-TYPICAL SECTIONS AND DETAILS\020200-PROJECT OVERVIEW\020201_PO.DWG
LAYOUT NAME - 020201

PLOT DATE : 10/9/2017 1:18 PM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:500 FT

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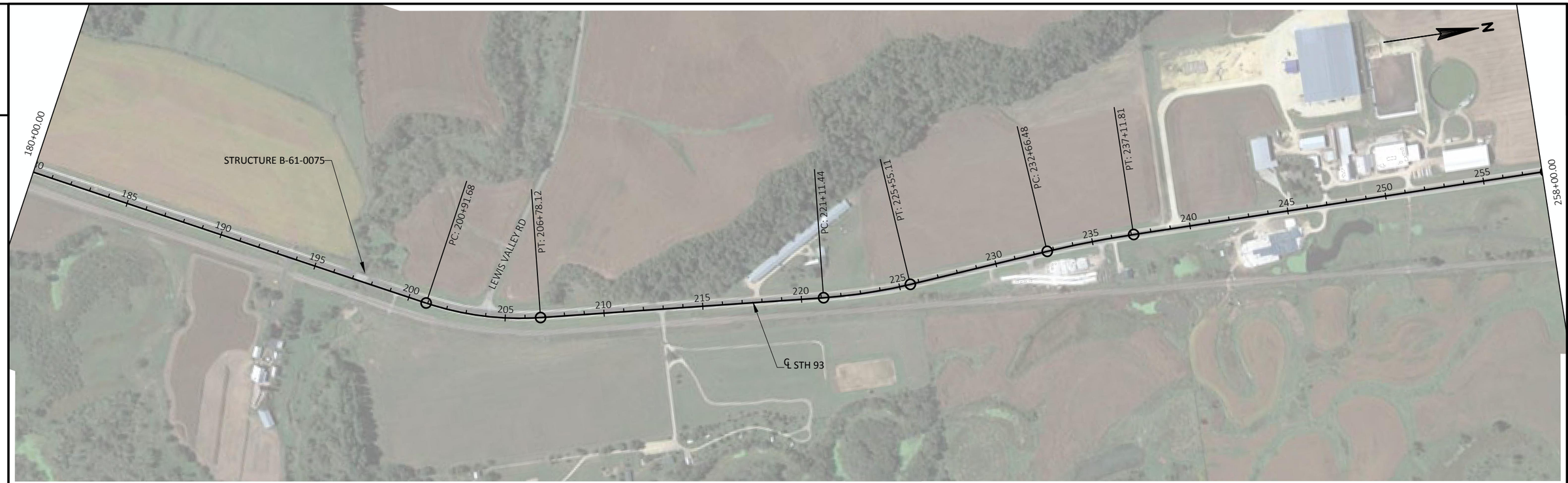

PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN OVERVIEW	SHEET 4	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\020000-TYPICAL SECTIONS AND DETAILS\020200-PROJECT OVERVIEW\020201_PO.DWG
LAYOUT NAME - 020203
PLOT DATE : 10/9/2017 1:18 PM
PLOT BY : PAYNE, MATTHEW A
PLOT NAME :
PLOT SCALE : 1 IN:500 FT
WISDOT/CADDS SHEET 44

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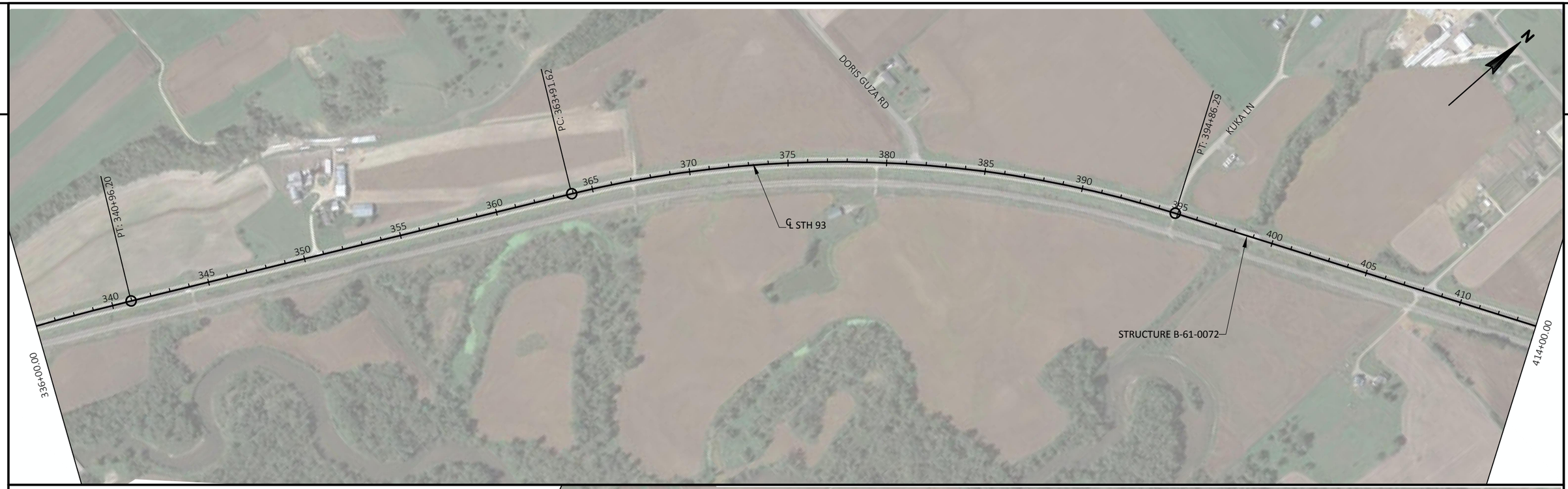

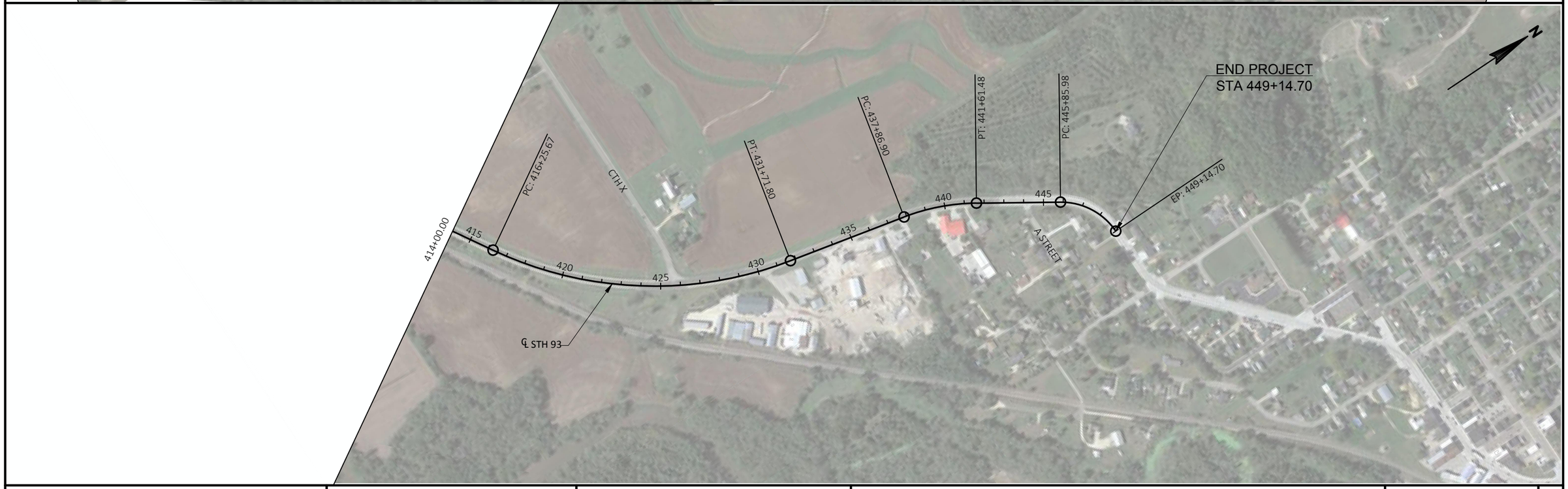

PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN OVERVIEW	SHEET 5	E

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LAYOUT NAME - 020205

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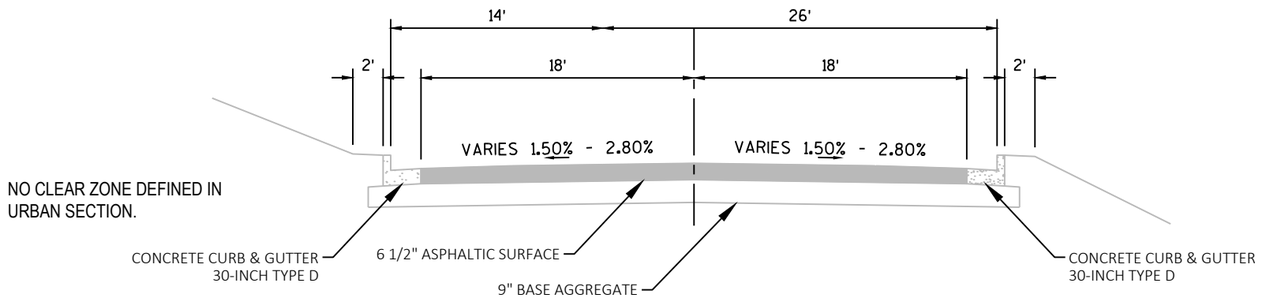
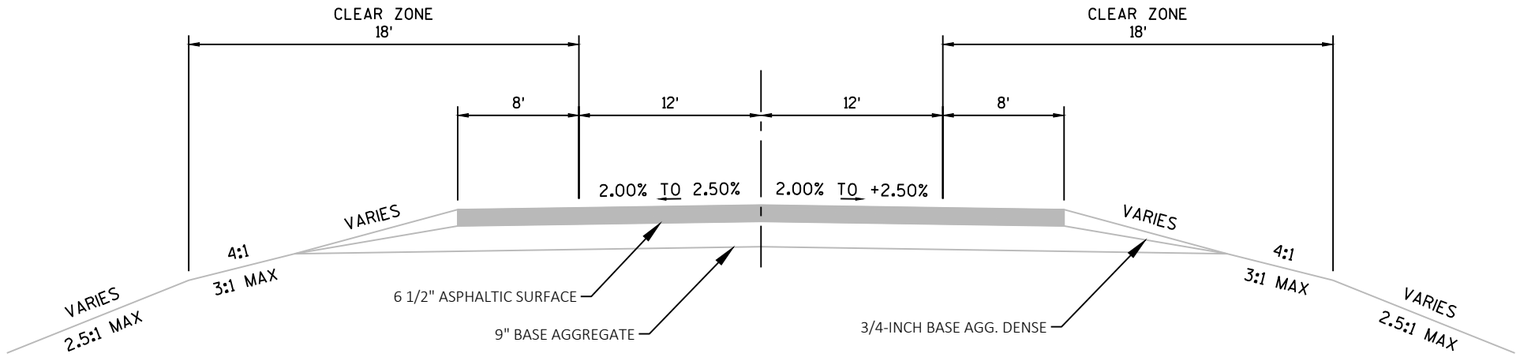
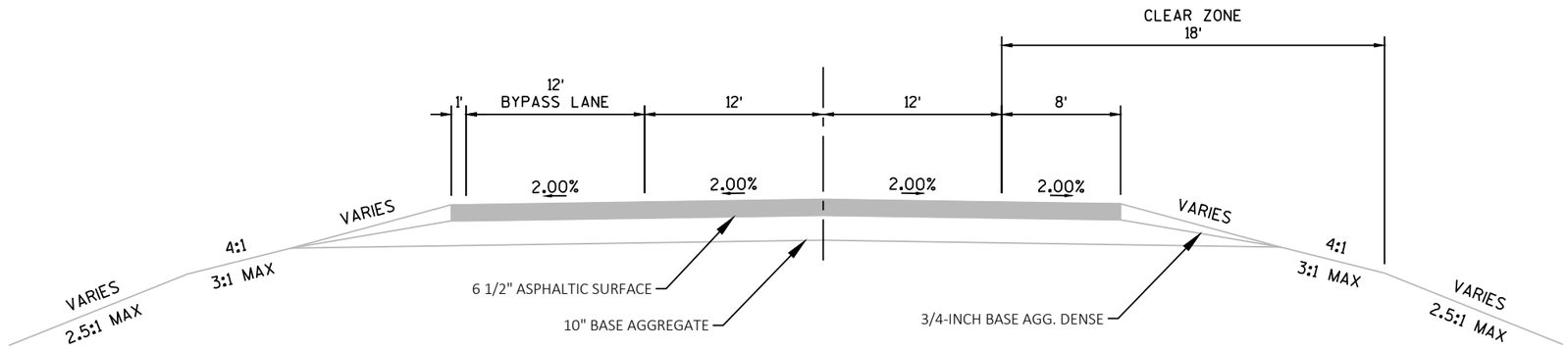


EXISTING TYPICAL SECTION STH 93
STA 27+94.00 TO 38+68.27

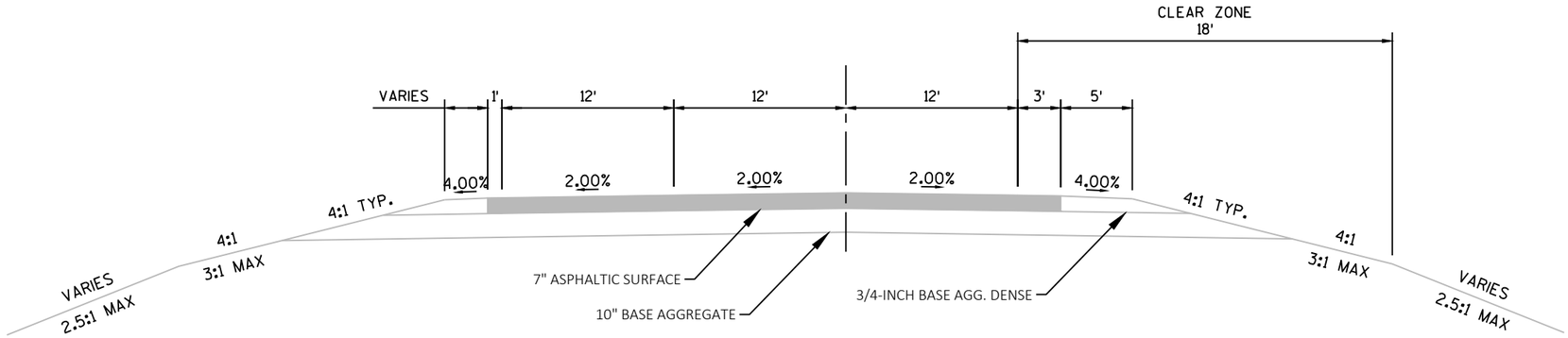


EXISTING TYPICAL SECTION STH 93
STA 39+55.44 TO 62+40.84

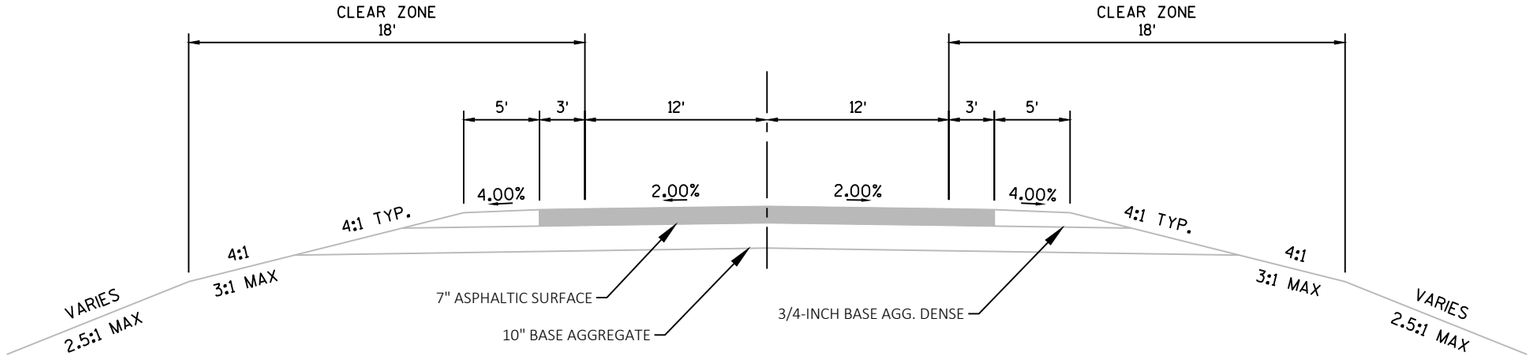


EXISTING TYPICAL SECTION STH 93
STA 62+40.84 TO 67+53.56

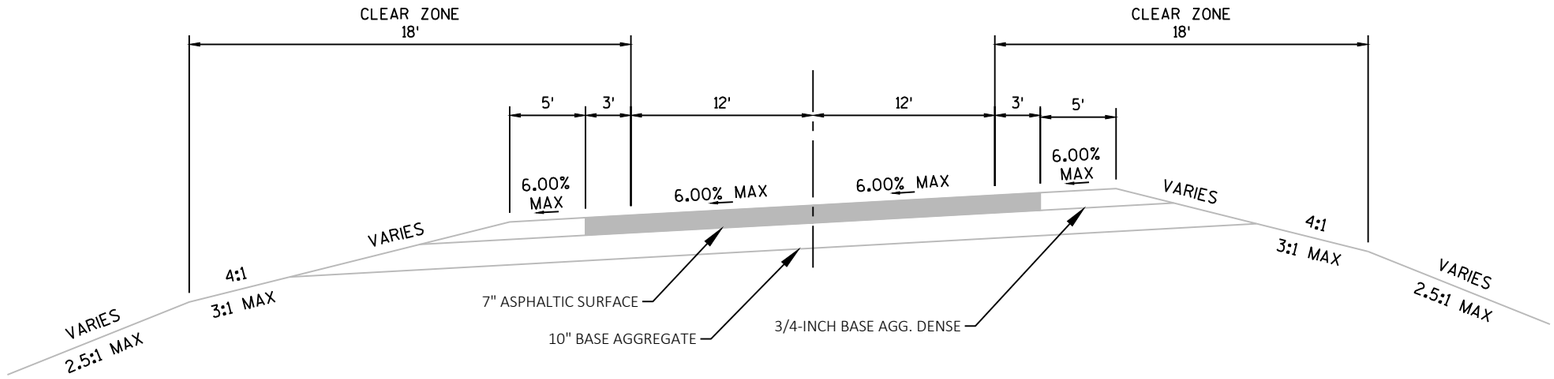
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	EXISTING TYPICAL SECTIONS	SHEET 6	E



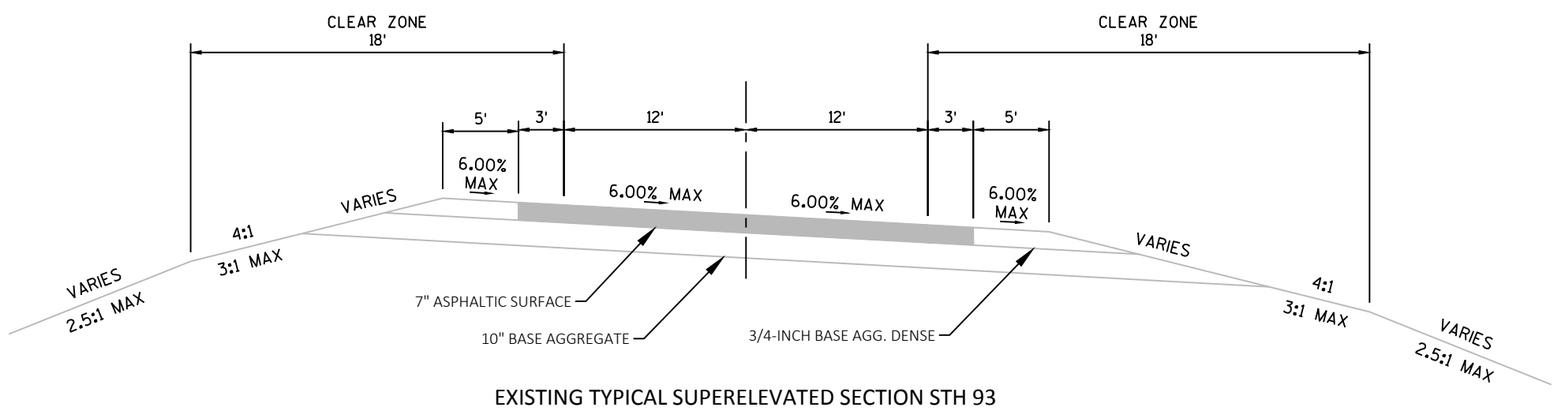
EXISTING TYPICAL SECTION STH 93
STA 67+53.56 TO 70+88.92
STA 82+87.94 TO 90+79.94



EXISTING TYPICAL SECTION STH 93
STA 70+88.92 TO 71+40.69
STA 90+79.94 TO 99+16.44
STA 119+70.76 TO 123+56.83
STA 128+96.16 TO 130+96.01
STA 134+61.57 TO 200+91.68
STA 206+78.12 TO 221+11.44
STA 225+55.11 TO 232+66.48
STA 237+11.81 TO 286+02.84
STA 299+01.22 TO 363+91.62
STA 394+86.29 TO 416+25.67

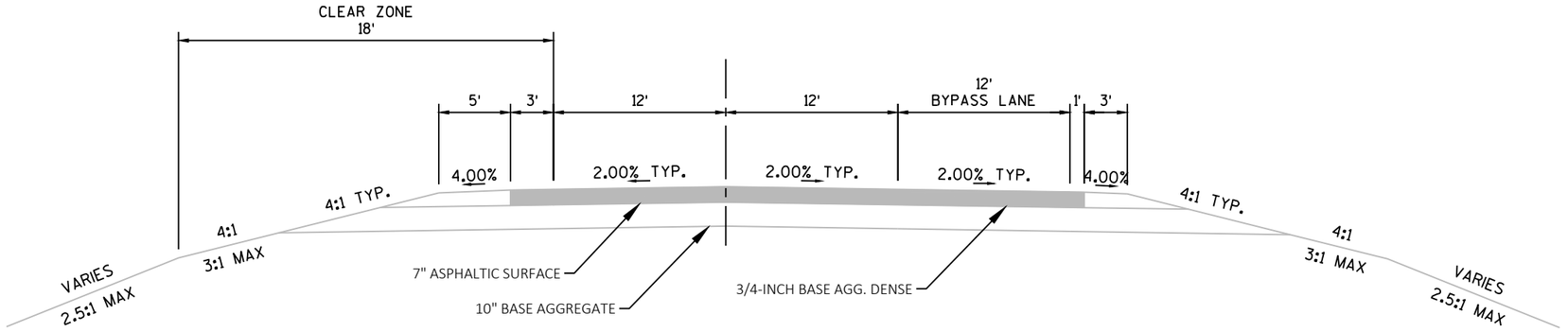


EXISTING TYPICAL SUPERELEVATED SECTION STH 93
STA 71+40.69 TO 83+49.74
STA 123+56.83 TO 128+96.16
STA 200+91.68 TO 206.78.12
STA 221+11.44 TO 225+55.11
STA 416+25.67 TO 431+71.80

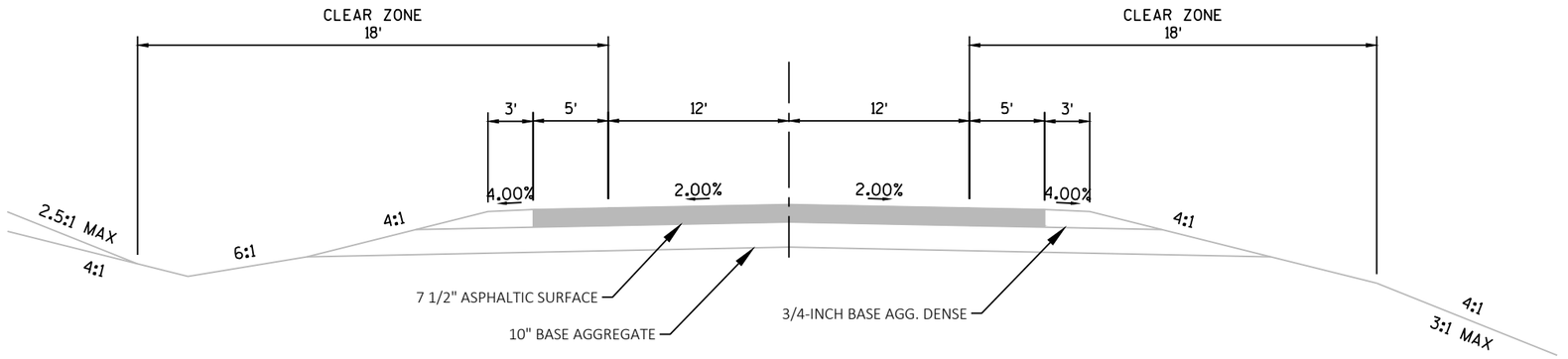


EXISTING TYPICAL SUPERELEVATED SECTION STH 93
STA 99+16.44 TO 101+47.47
STA 104+41.97 TO 114+35.78
STA 130+96.01 TO 134+61.57
STA 232+66.48 TO 237+11.81
STA 286+02.84 TO 299+01.22
STA 363+91.62 TO 394+86.29

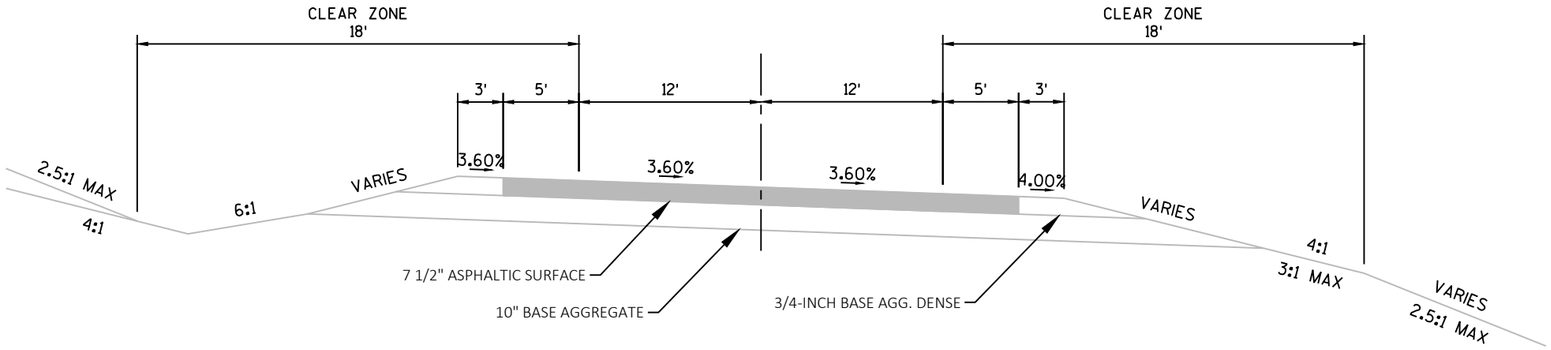
2



EXISTING TYPICAL SECTION STH 93
STA 111+78.73 TO 119+70.76



EXISTING TYPICAL SECTION STH 93
STA 431+71.80 TO 437+86.90
STA 441+61.48 TO 442+76.00

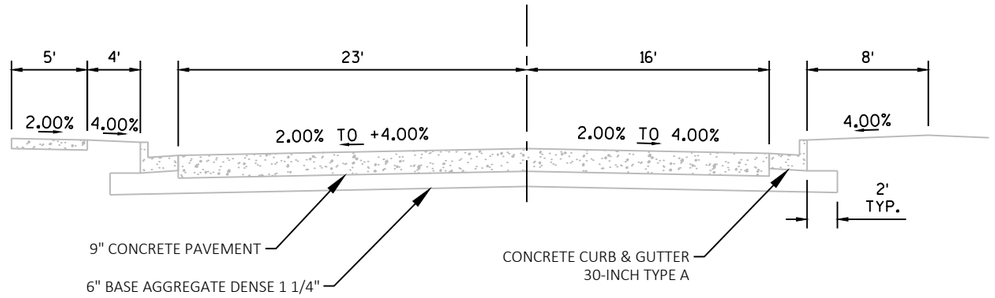


EXISTING TYPICAL SUPERELEVATED SECTION STH 93
STA 437+86.90 TO 441+61.48

PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	EXISTING TYPICAL SECTIONS	SHEET 9	E

2

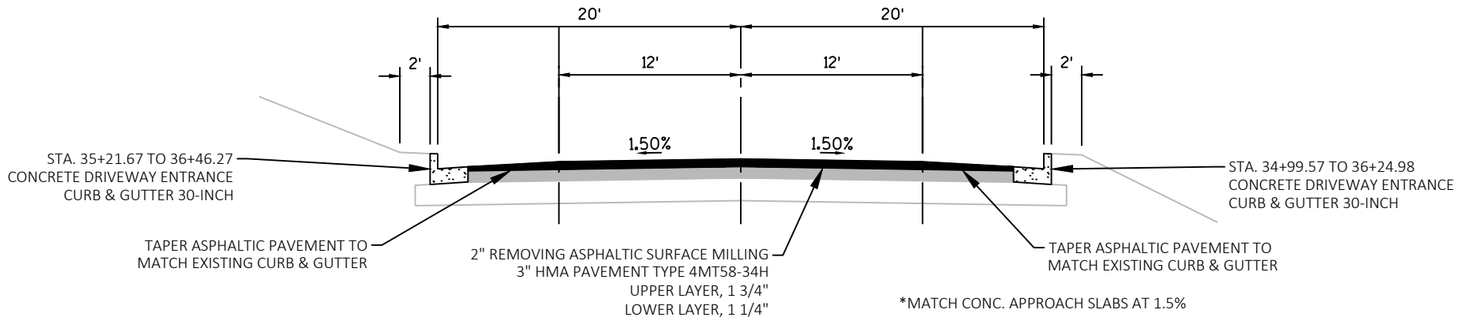
NO CLEAR ZONE DEFINED IN URBAN SECTION.



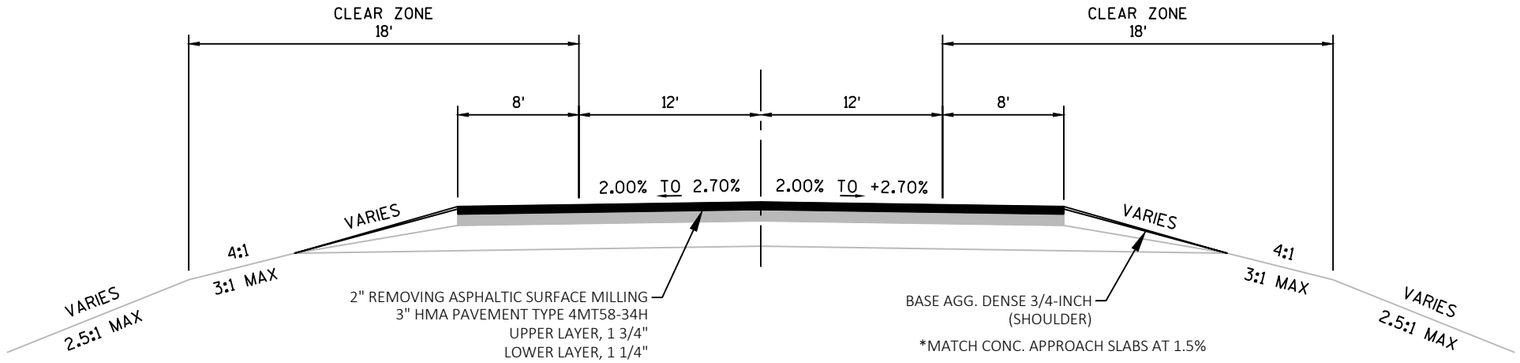
EXISTING TYPICAL URBAN SECTION STH 93
STA 442+76.00 TO 449+14.70

PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	EXISTING TYPICAL SECTIONS	SHEET 10	E

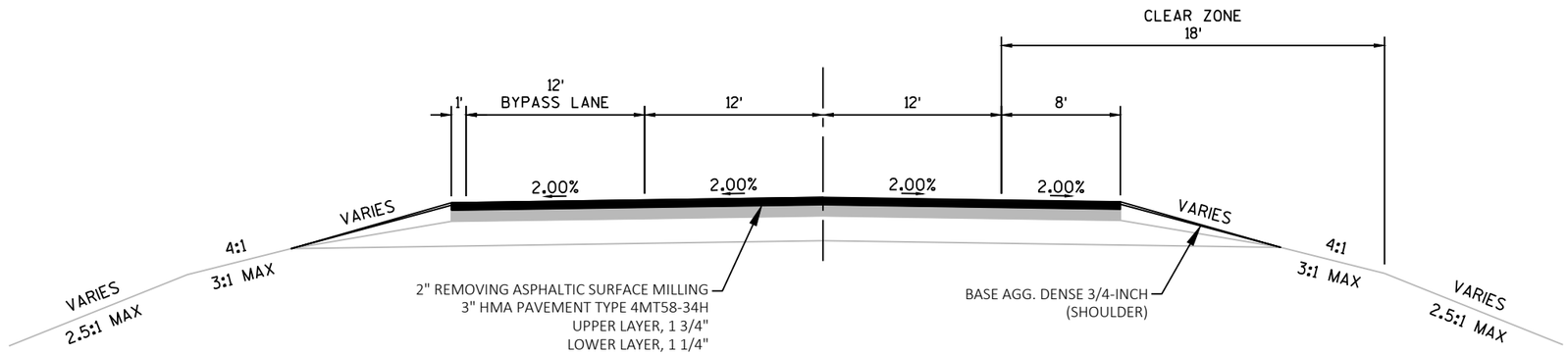
2



PROPOSED TYPICAL SECTION STH 93
STA 27+94.00 TO 38+68.27

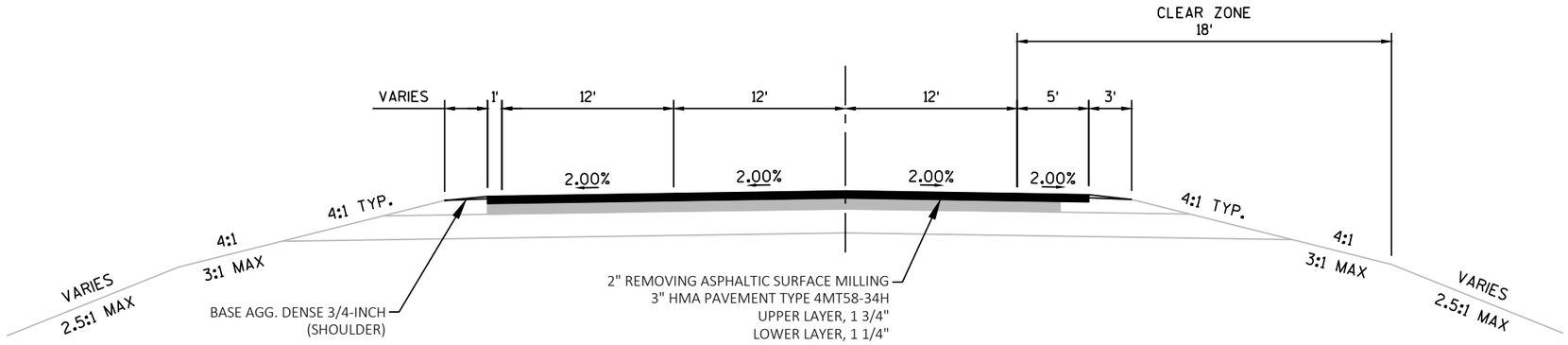


PROPOSED TYPICAL SECTION STH 93
STA 39+55.44 TO 62+40.84

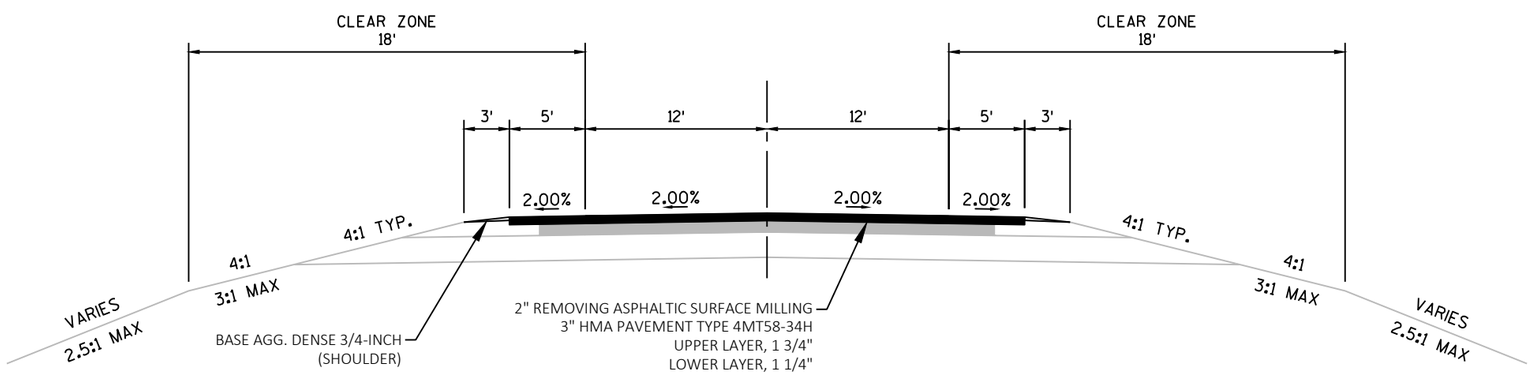


PROPOSED TYPICAL SECTION STH 93
STA 62+40.84 TO 67+53.56

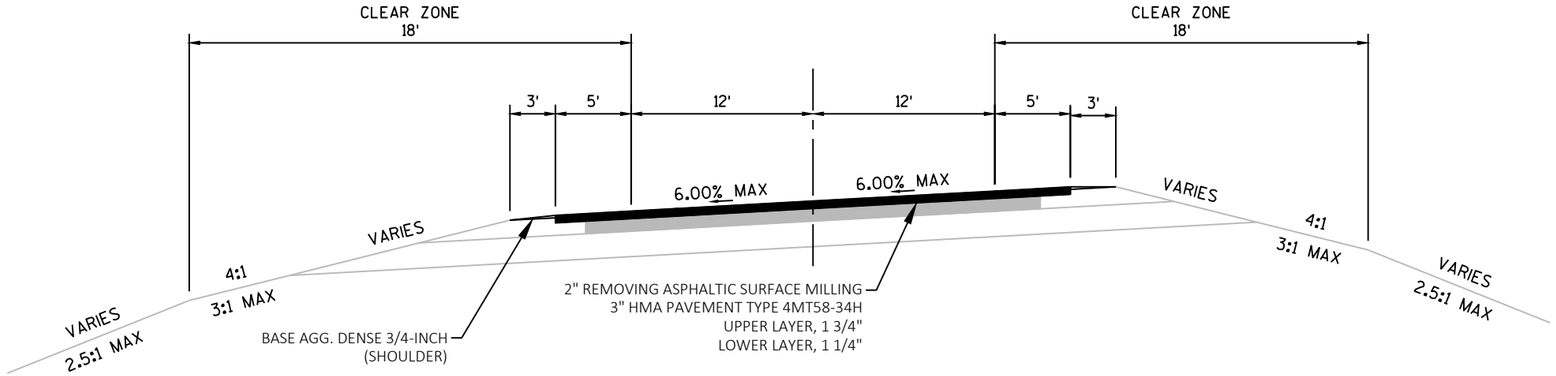
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PROPOSED TYPICAL SECTIONS	SHEET 11	E



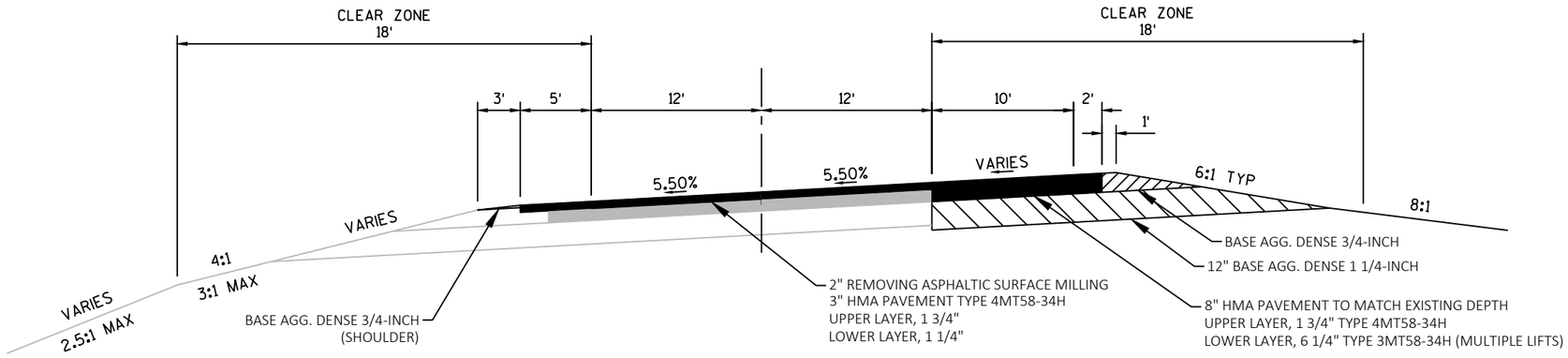
PROPOSED TYPICAL SECTION STH 93
STA 67+53.56 TO 70+88.92
STA 82+87.94 TO 90+79.94



PROPOSED TYPICAL SECTION STH 93
STA 70+88.92 TO 71+40.69
STA 90+79.94 TO 99+16.44
STA 119+70.76 TO 123+56.83
STA 128+96.16 TO 130+96.01
STA 134+61.57 TO 200+91.68
STA 206+78.12 TO 221+11.44
STA 225+55.11 TO 232+66.48
STA 237+11.81 TO 286+02.84
STA 299+01.22 TO 363+91.62
STA 394+86.29 TO 416+25.67

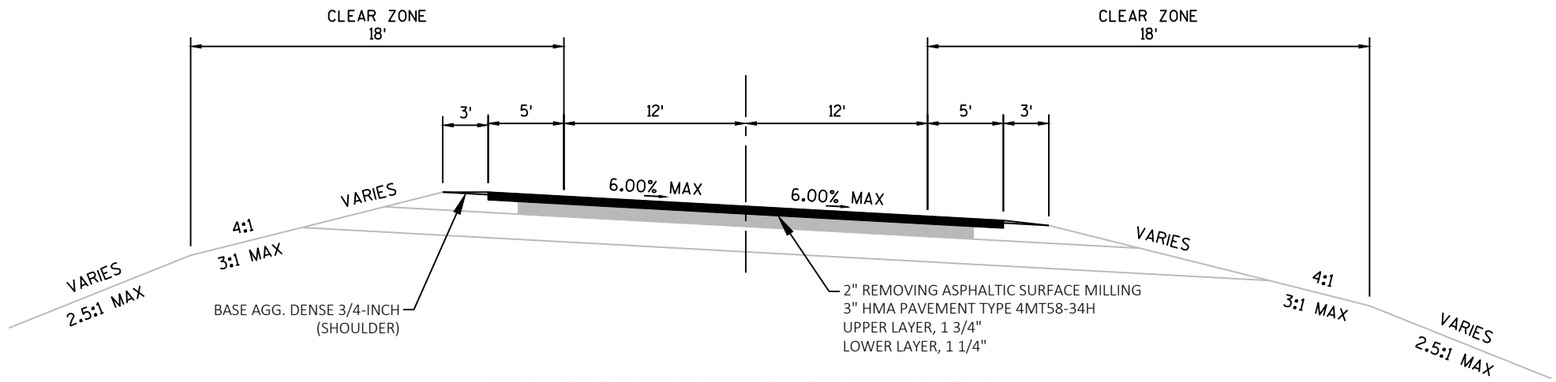


PROPOSED TYPICAL SUPERELEVATED SECTION STH 93
STA 71+40.69 TO 83+49.74
STA 123+56.83 TO 128+96.16
STA 200+91.68 TO 206.78.12
STA 221+11.44 TO 225+55.11
STA 416+25.67 TO 431+71.80

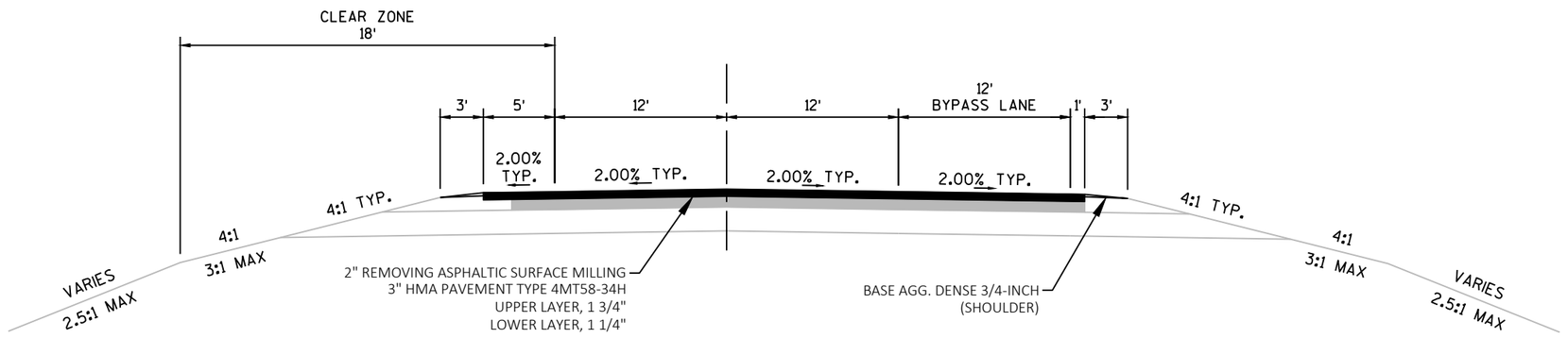


PROPOSED TYPICAL SUPERELEVATED SECTION STH 93
STA 74+91.52 TO 76+89.29

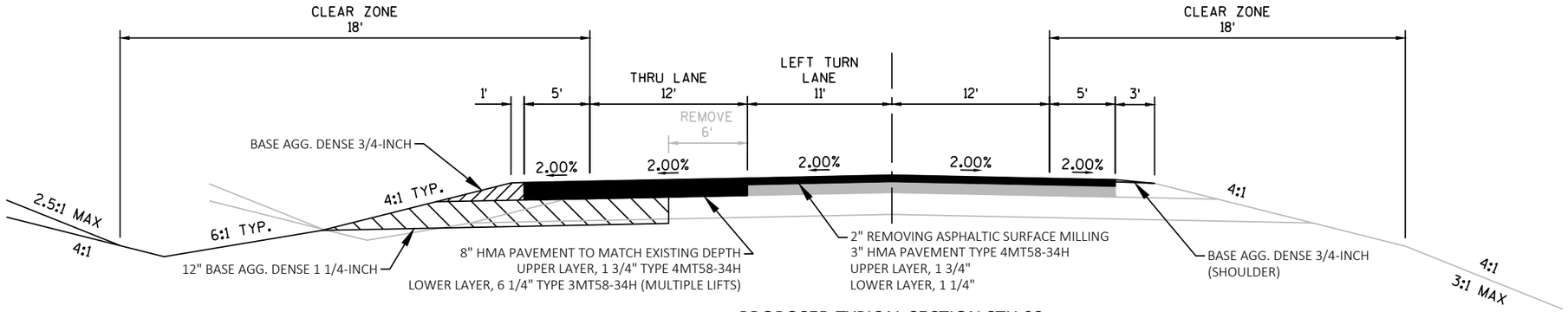
2



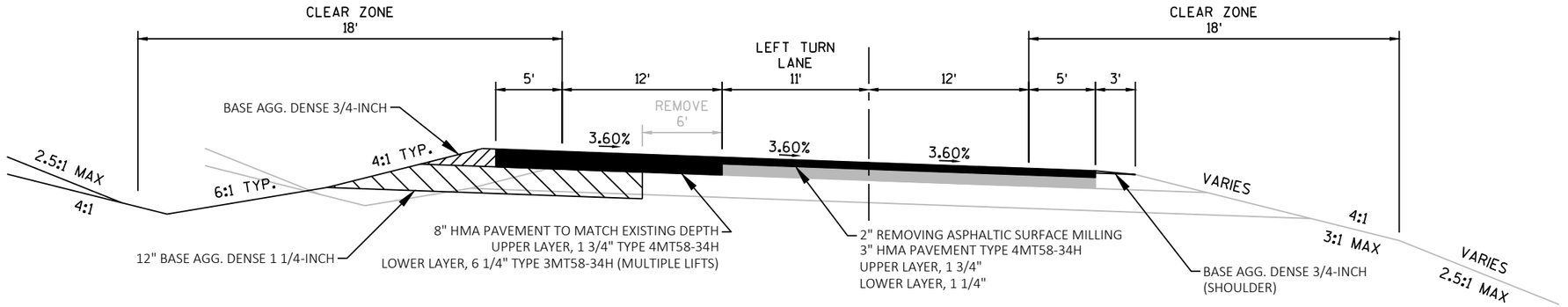
PROPOSED TYPICAL SUPERELEVATED SECTION STH 93
STA 99+16.44 TO 101+47.47
STA 104+41.97 TO 114+35.78
STA 130+96.01 TO 134+61.57
STA 232+66.48 TO 237+11.81
STA 286+02.84 TO 299+01.22
STA 363+91.62 TO 394+86.29



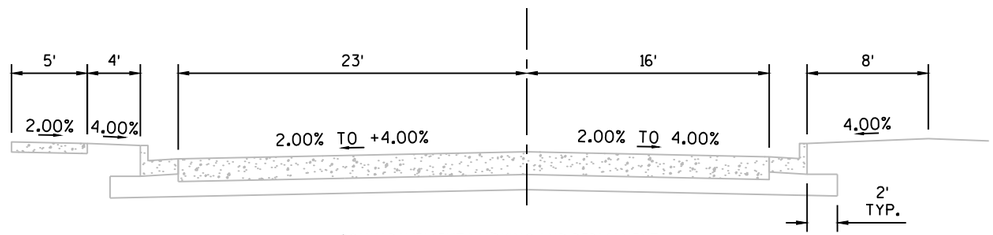
PROPOSED TYPICAL SECTION STH 93
STA 111+78.73 TO 119+70.76



PROPOSED TYPICAL SECTION STH 93
STA 431+71.80 TO 437+86.90
STA 441+61.48 TO 442+76.00

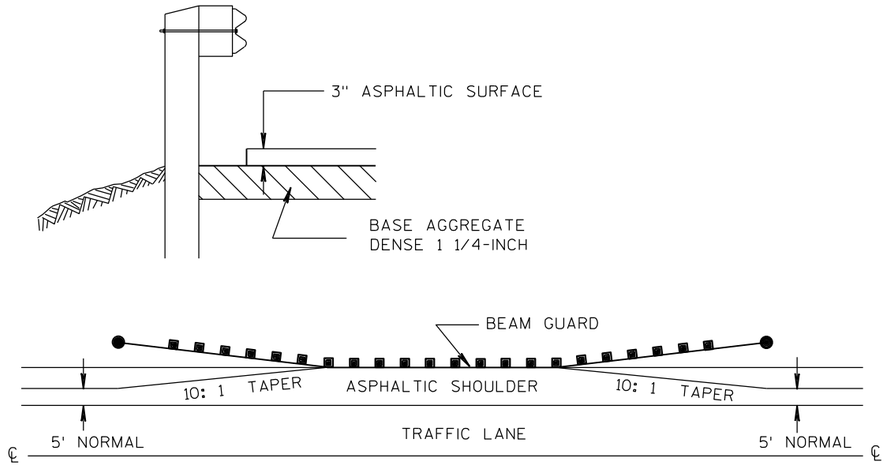


PROPOSED TYPICAL SUPERELEVATED SECTION STH 93
STA 437+86.90 TO 441+61.48

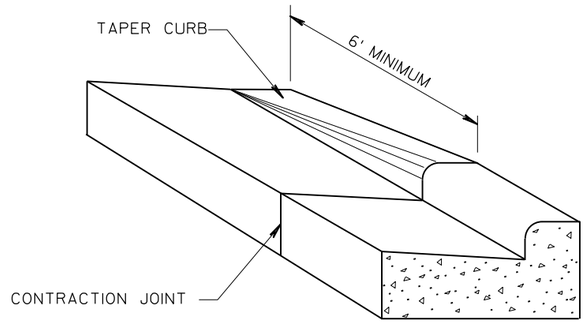


*ONLY PAVEMENT MARKING AND PERMANENT
SIGNING TO OCCUR IN THIS SECTION

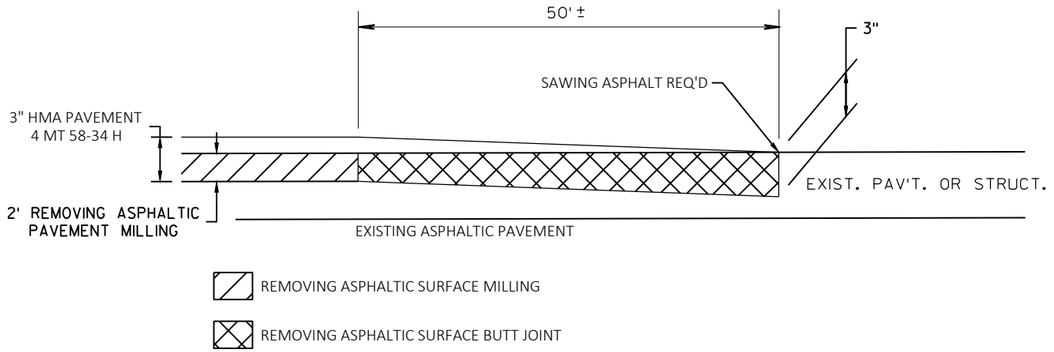
PROPOSED TYPICAL URBAN SECTION STH 93
STA 442+76.00 TO 449+14.70



DETAIL FOR ASPHALTIC SHOULDER AT BEAM GUARD

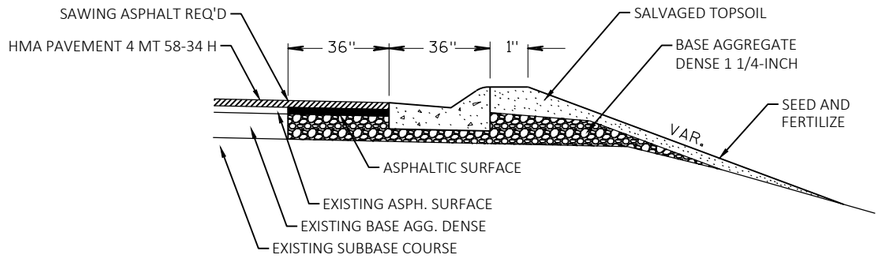


DETAIL OF CURB & GUTTER TERMINI

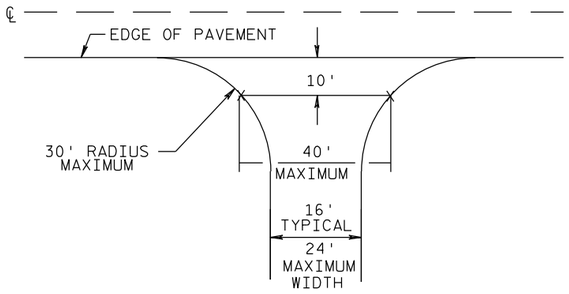


DETAIL OF BUTTED JOINT

AT STRUCTURES AND PROJECT LIMITS
* EXACT DIMENSIONS TO BE DETERMINED
BY ENGINEER IN THE FIELD

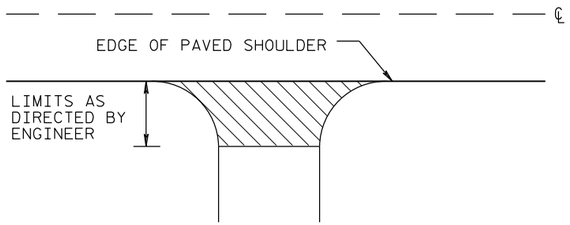


DETAIL OF CURB & GUTTER INSTALLATION

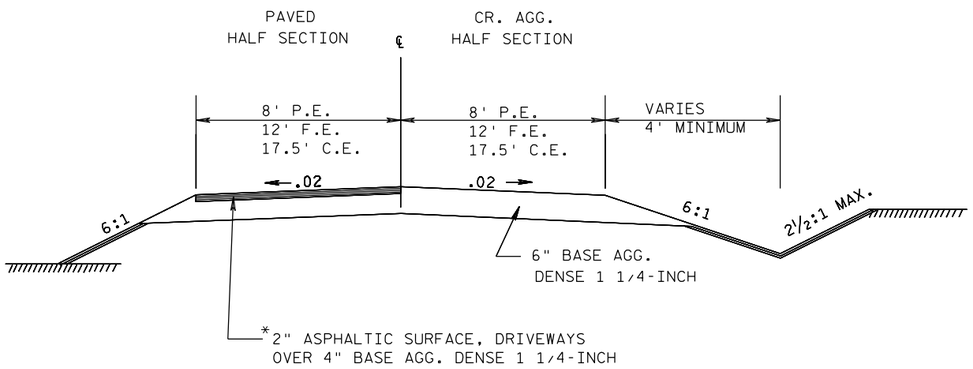


TYPICAL DRIVEWAY DETAIL

(NON-COMMERCIAL RURAL)



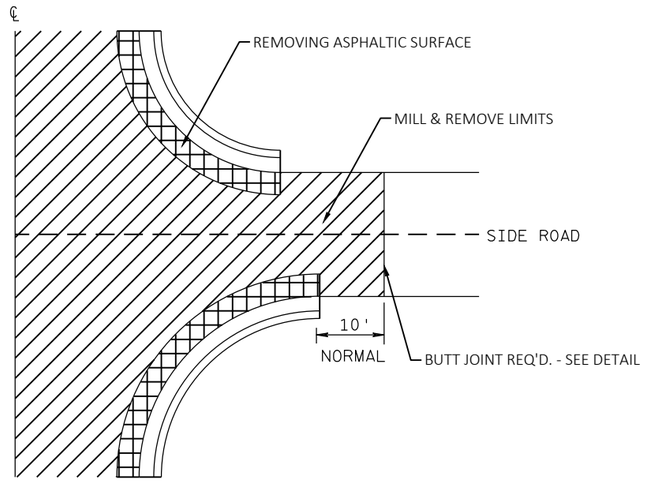
RURAL DRIVEWAY DETAIL - ASPHALT



* OR MATCH EXIST. ASPH. DEPTH

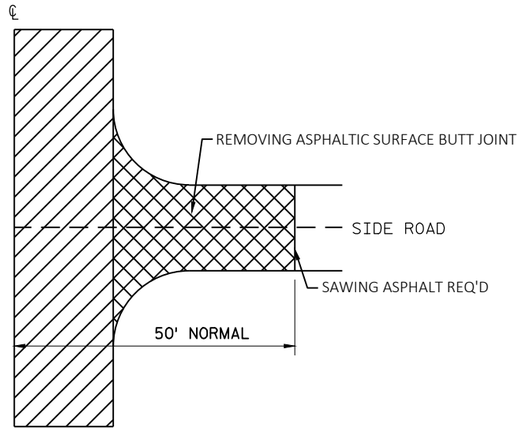
NOTE:
DRIVEWAY PROFILES NOT EXPECTED TO EXCEED 10%. PLACE LOW POINT OF DRIVEWAY PROFILE OVER DITCH FLOW LINE.

TYPICAL SECTION
FOR PRIVATE ENTRANCES



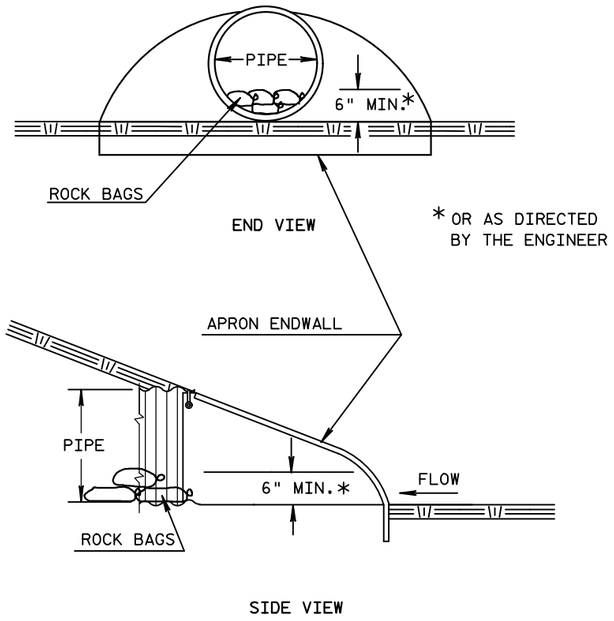
RURAL ASPHALTIC SURFACE SIDE ROAD DETAIL

SIDE ROAD WITH NEW CURB AND GUTTER



RURAL ASPHALTIC SURFACE SIDE ROAD DETAIL

SIDE ROAD WITH NO CURB AND GUTTER



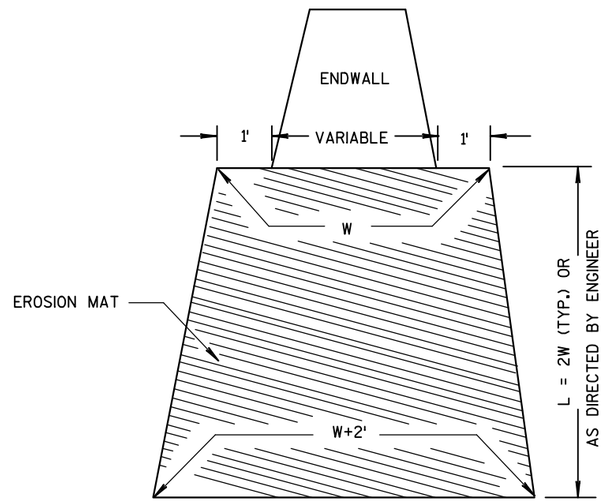
CULVERT PIPE DITCH CHECK

RUNOFF COEFFICIENT TABLE

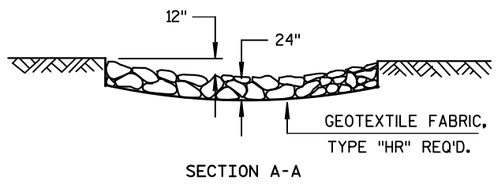
	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33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

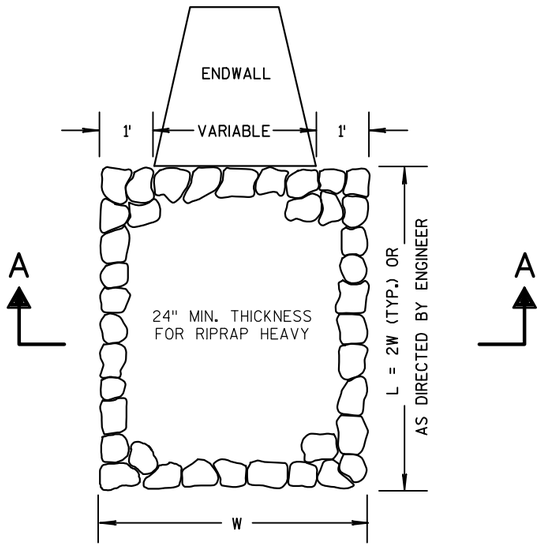
TOTAL PROJECT AREA = _____ ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = _____ACRES

2

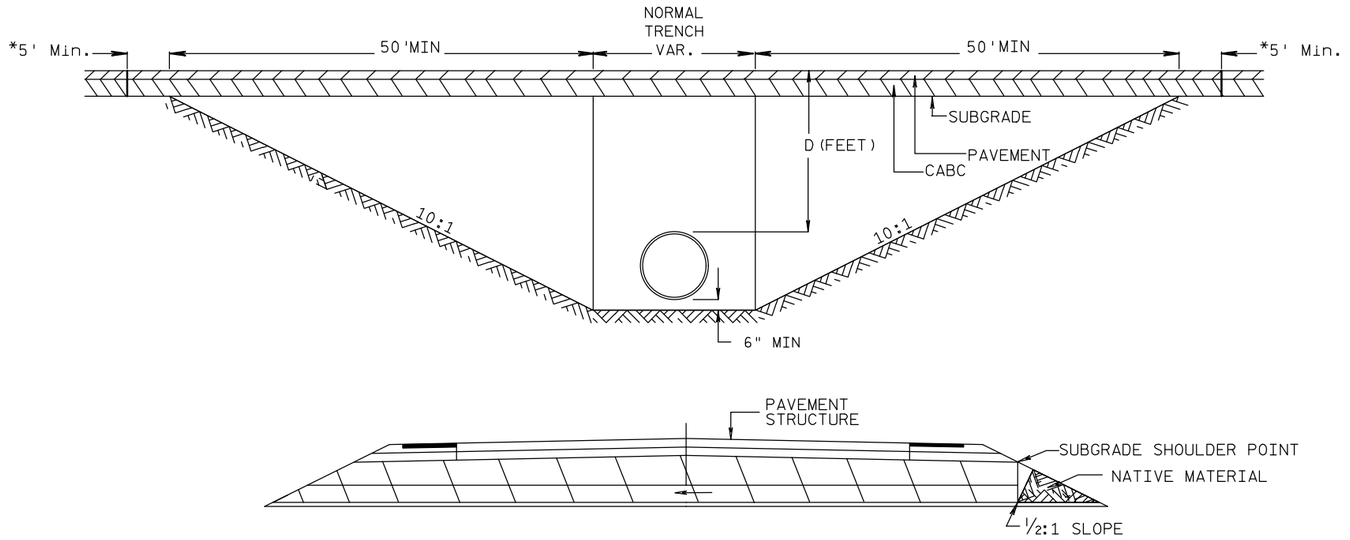


EROSION MAT TREATMENT AT CULVERTS





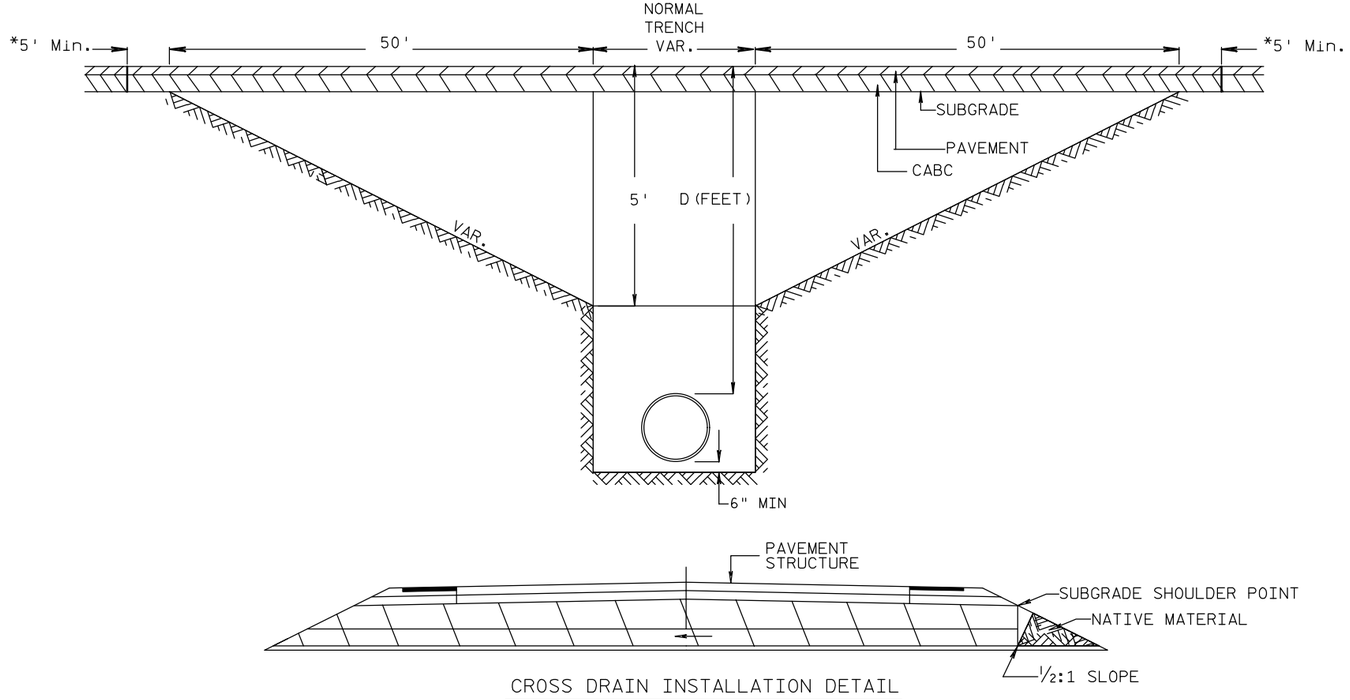
RIPRAP HEAVY TREATMENT AT CULVERTS



CROSS DRAIN INSTALLATION DETAIL

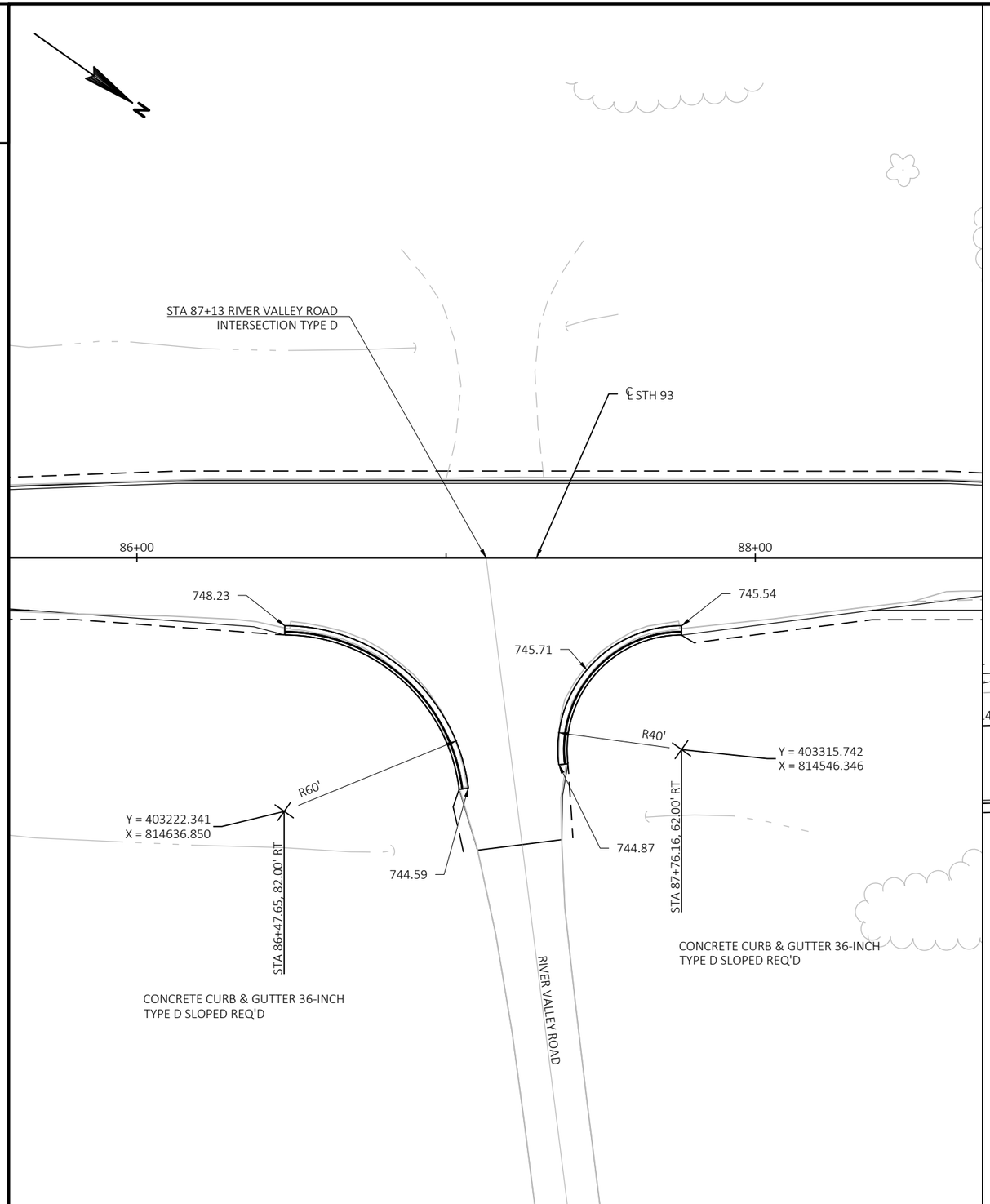
FOR D ≤ 5'

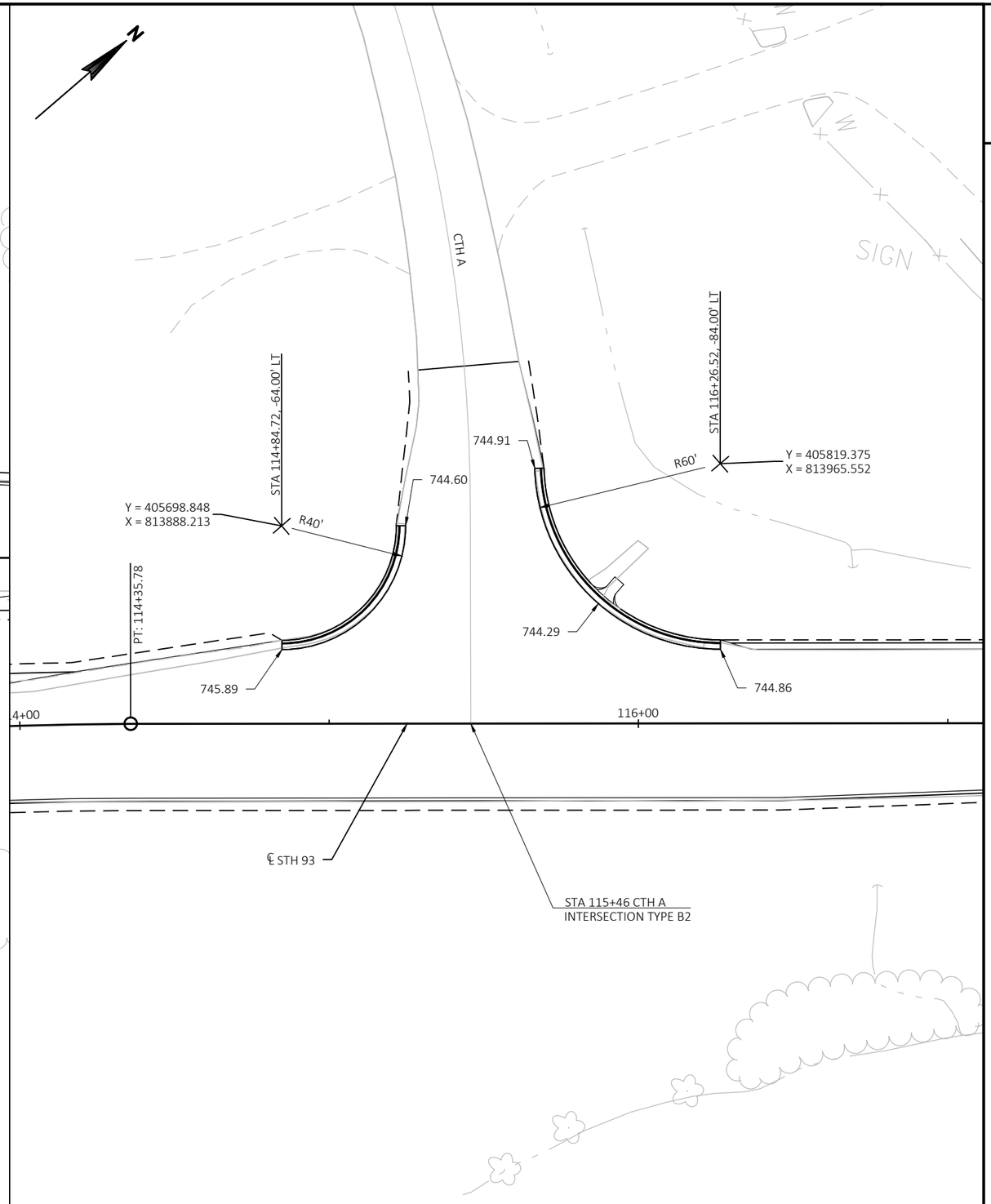
* PAVEMENT REMOVAL LIMITS (TYPICAL)



CROSS DRAIN INSTALLATION DETAIL

FOR D ≥ 5'





PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CURB & GUTTER LAYOUT	SHEET 20	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\020000-TYPICAL SECTIONS AND DETAILS\020500-INTERSECTION DETAILS\71300030_ID1.DWG
LAYOUT NAME - 020501
PLOT DATE : 10/19/2017 2:30 PM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

N

STA 77+61 LOESEL LANE
INTERSECTION TYPE B2 REQ'D

74+00
75+00
76+00
77+00
78+00
79+00

12'
5'
3'
22'
3' SHLDR
(2' PAVED)
127'
200'
22'

RIPRAP

LOESEL LANE

CTH XX

N

Y = 420251.138
X = 818270.673

Y = 420121.437
X = 818288.953

53'
37'
15'
15'
R60'
R40'
3'
110'
115'
3'
5'
12'
23'
23'
12'

270+00
271+00
272+00
273+00
274+00
275+00

STA 271+76 CTH XX
INTERSECTION TYPE C REQ'D

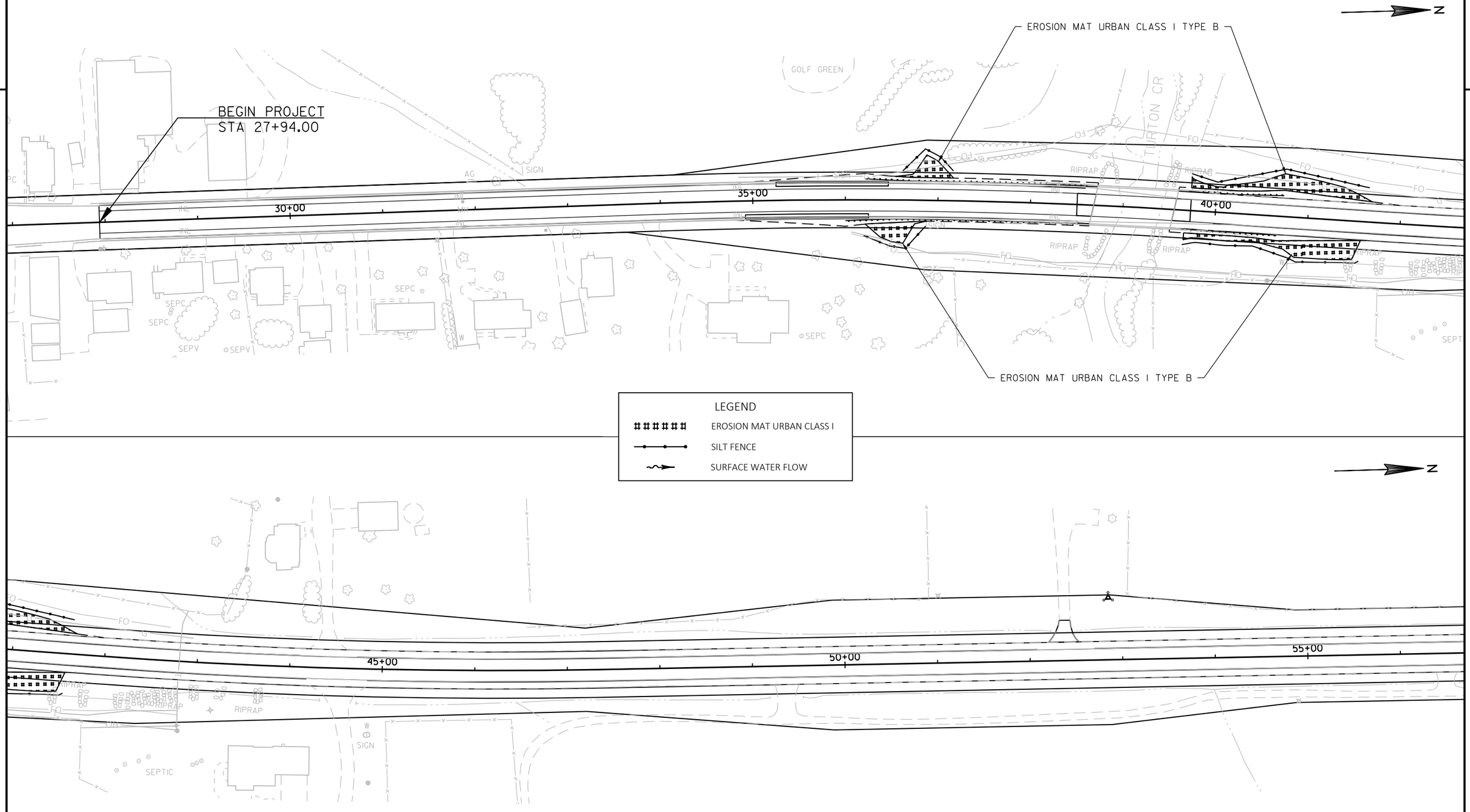
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PAVEMENT LAYOUT	SHEET 21	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\020000-TYPICAL SECTIONS AND DETAILS\020500-INTERSECTION DETAILS\71300030_ID2.DWG
LAYOUT NAME - 020502

PLOT DATE : 10/19/2017 2:31 PM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 22	E

2

2

N

60+00

65+00

70+00

SIGN

LEGEND

EROSION MAT URBAN CLASS I

SILT FENCE

SURFACE WATER FLOW

70+00

75+00

80+00

85+00

SIGN

RIPRAP

CANOPY

EROSION MAT URBAN CLASS I TYPE A

PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 23	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\020000-TYPICAL SECTIONS AND DETAILS\020600-EROSION CONTROL\020601_EC.DWG
LAYOUT NAME - 020602

PLOT DATE : 11/7/2017 1:43 PM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 44

2

2

N

85+00

90+00

95+00

OH

SIGN

CASKAHAGKANASKAKANAL

LEGEND

EROSION MAT URBAN CLASS I

SILT FENCE

SURFACE WATER FLOW

N

EROSION MAT URBAN CLASS I TYPE B

100+00

105+00

110+00

TREMPEALEAU R

EROSION MAT URBAN CLASS I TYPE B

PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 24	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\020000-TYPICAL SECTIONS AND DETAILS\020600-EROSION CONTROL\020601_EC.DWG
LAYOUT NAME - 020603

PLOT DATE : 11/7/2017 1:43 PM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : ##########

2

RIP RAP HEAVY (8' X 16')
GEOTEXTILE FABRIC TYPE HR

CULVERT PIPE CHECKS

EROSION MAT URBAN CLASS I TYPE B

2 - CULVERT PIPE CHECKS

115+00

120+00

125+00

TREMPEALEAU R

RIP RAP HEAVY (16 CY)
GEOTEXTILE FABRIC TYPE HR

EROSION MAT URBAN CLASS I TYPE B

EROSION MAT URBAN CLASS I TYPE A

LEGEND

######	EROSION MAT URBAN CLASS I
—•—•—	SILT FENCE
~~→	SURFACE WATER FLOW

130+00

135+00

140+00

CANADIAN NATIONAL

TREMPEALEAU R

CANADIAN NATIONAL

PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 25	E

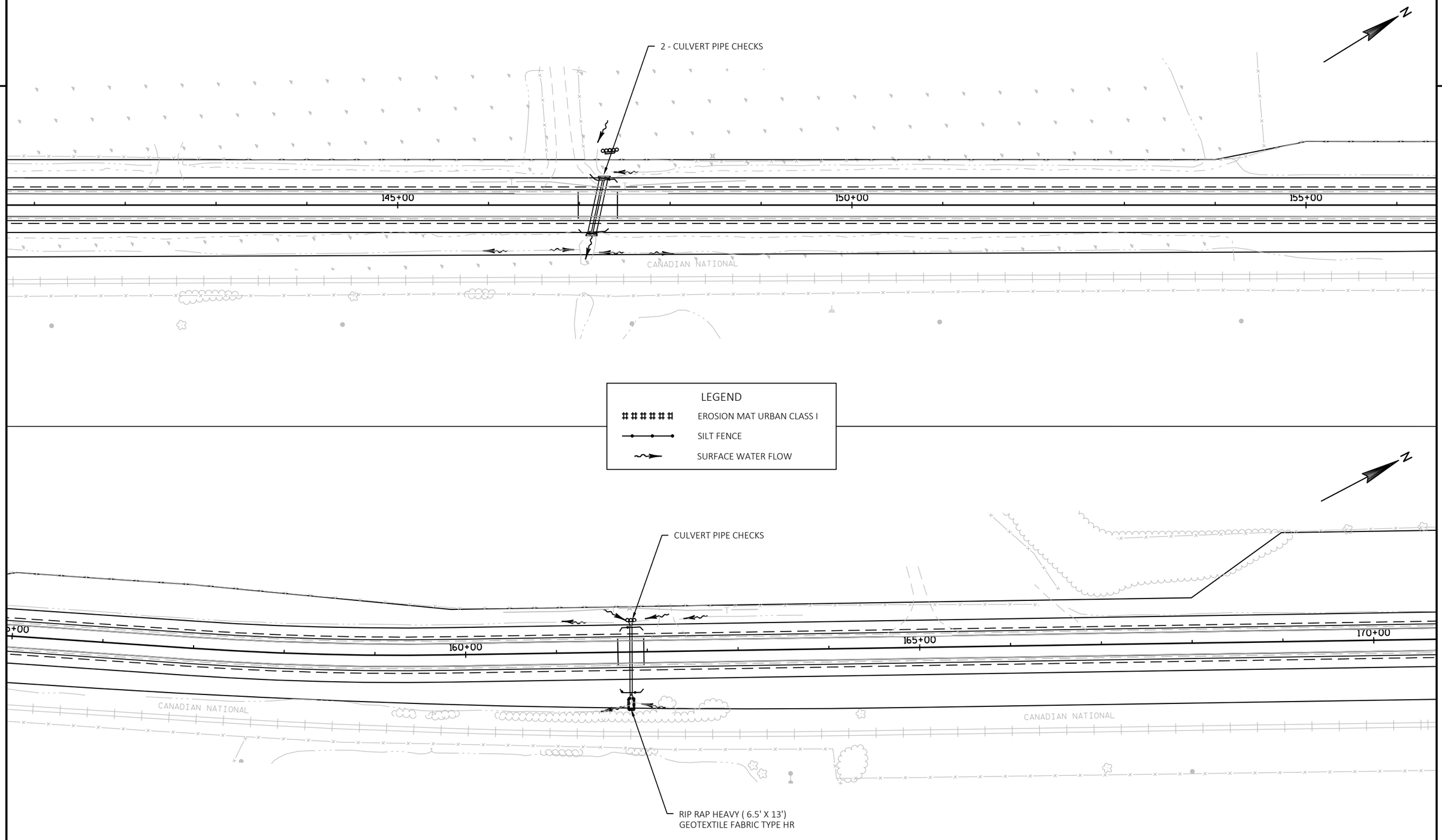
FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\020000-TYPICAL SECTIONS AND DETAILS\020600-EROSION CONTROL\020601_EC.DWG
LAYOUT NAME - 020604

PLOT DATE : 11/7/2017 1:43 PM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 44

2

2

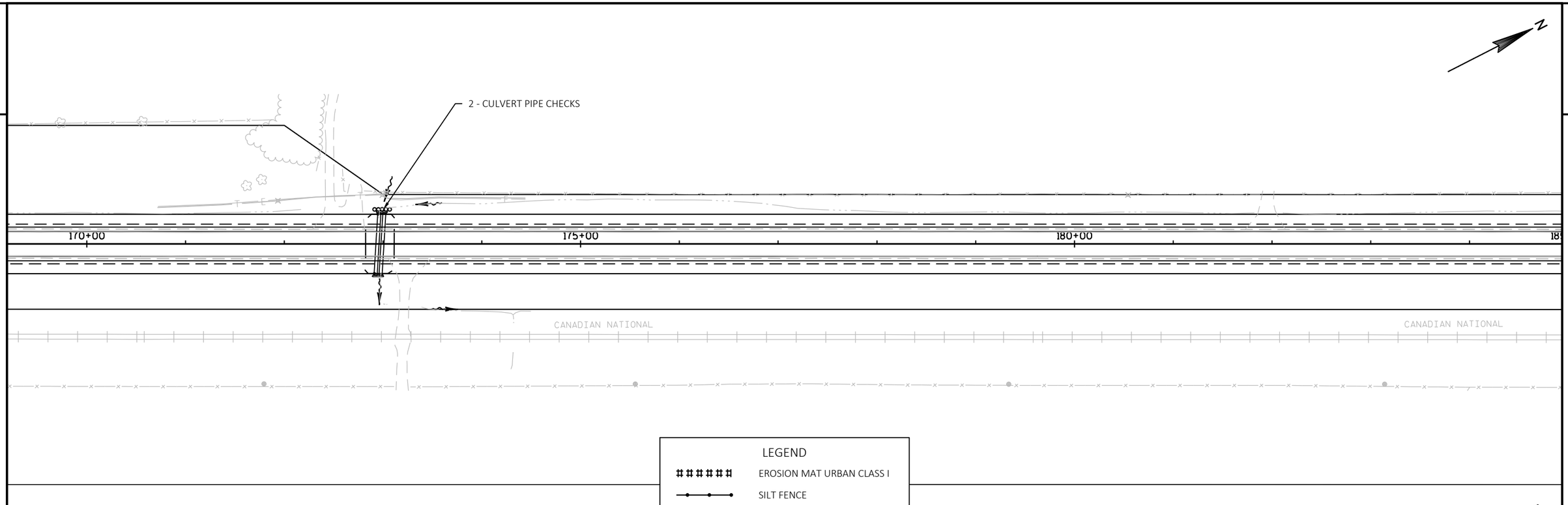


PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 26	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\020000-TYPICAL SECTIONS AND DETAILS\020600-EROSION CONTROL\020601_EC.DWG
LAYOUT NAME - 020605

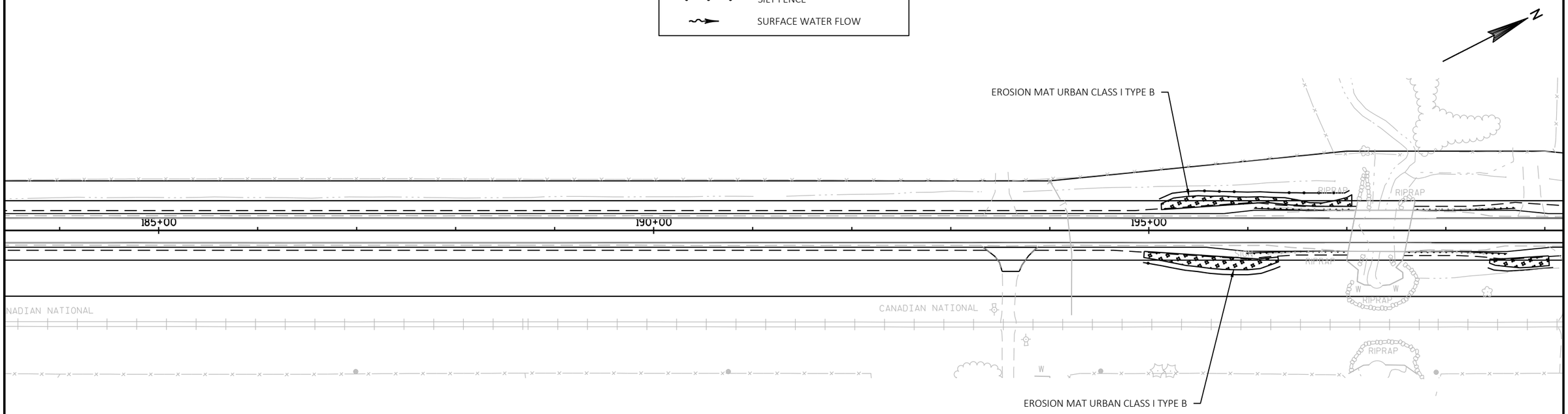
PLOT DATE : 11/7/2017 1:43 PM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : ##########

2



LEGEND

- EROSION MAT URBAN CLASS I
- SILT FENCE
- SURFACE WATER FLOW



PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 27	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\020000-TYPICAL SECTIONS AND DETAILS\020600-EROSION CONTROL\020601_EC.DWG
LAYOUT NAME - 020606
PLOT DATE : 11/7/2017 1:44 PM
PLOT BY : PAYNE, MATTHEW A
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 44

2

N

RIPRAP

200+00

205+00

210+00

SIGN

CANADIAN NATIONAL

CANADIAN NATIONAL

CANADIAN NATIONAL

EROSION MAT URBAN CLASS I TYPE B

LEGEND

EROSION MAT URBAN CLASS I

SILT FENCE

SURFACE WATER FLOW

N

CULVERT PIPE CHECK

215+00

220+00

225+00

NATIONAL

CANADIAN NATIONAL

EROSION MAT URBAN CLASS I TYPE B

PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 28	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\020000-TYPICAL SECTIONS AND DETAILS\020600-EROSION CONTROL\020601_EC.DWG
LAYOUT NAME - 020607

PLOT DATE : 11/7/2017 1:44 PM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : ############

WISDOT/CADDS SHEET 44

2

N

230+00

235+00

240+00

RIPRAP

LEGEND

EROSION MAT URBAN CLASS I

SILT FENCE

SURFACE WATER FLOW

N

EROSION MAT URBAN CLASS I TYPE B

CULVERT PIPE CHECK

EROSION MAT URBAN CLASS I TYPE B

FEEDER

FEEDER

SEPTIC

SEPV

245+00

250+00

255+00

SLAB

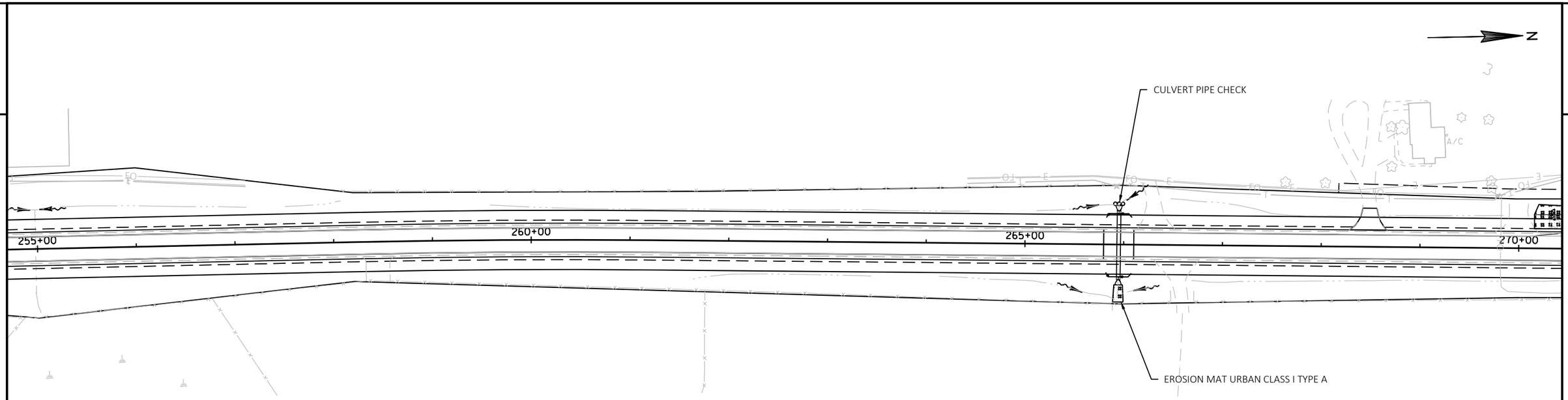
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 29	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\020000-TYPICAL SECTIONS AND DETAILS\020600-EROSION CONTROL\020601_EC.DWG
LAYOUT NAME - 020608

PLOT DATE : 11/7/2017 1:44 PM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : ##########

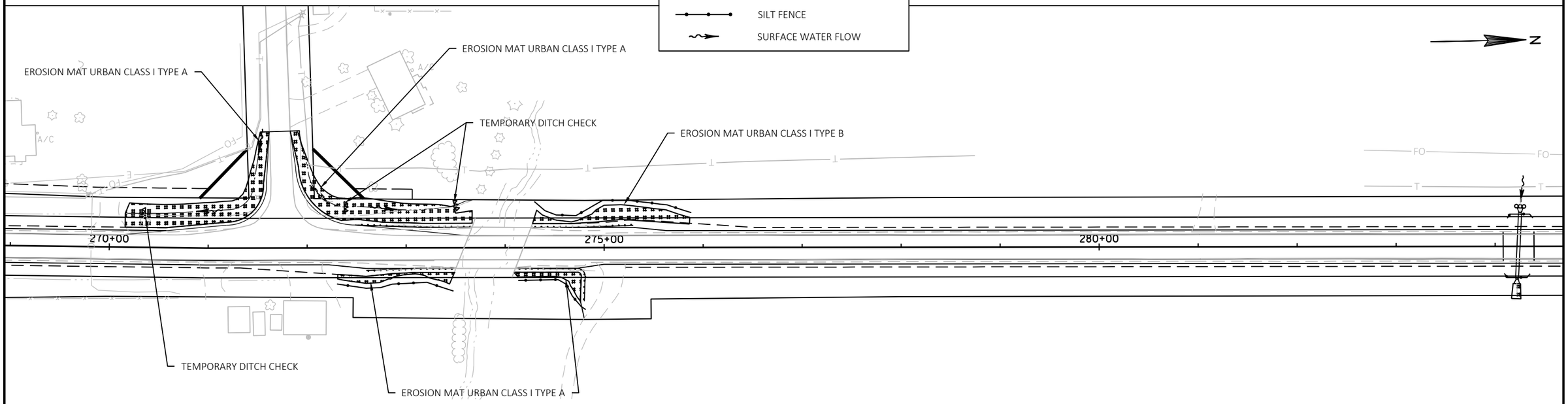
WISDOT/CADDS SHEET 44

2



LEGEND

- EROSION MAT URBAN CLASS I
- SILT FENCE
- SURFACE WATER FLOW

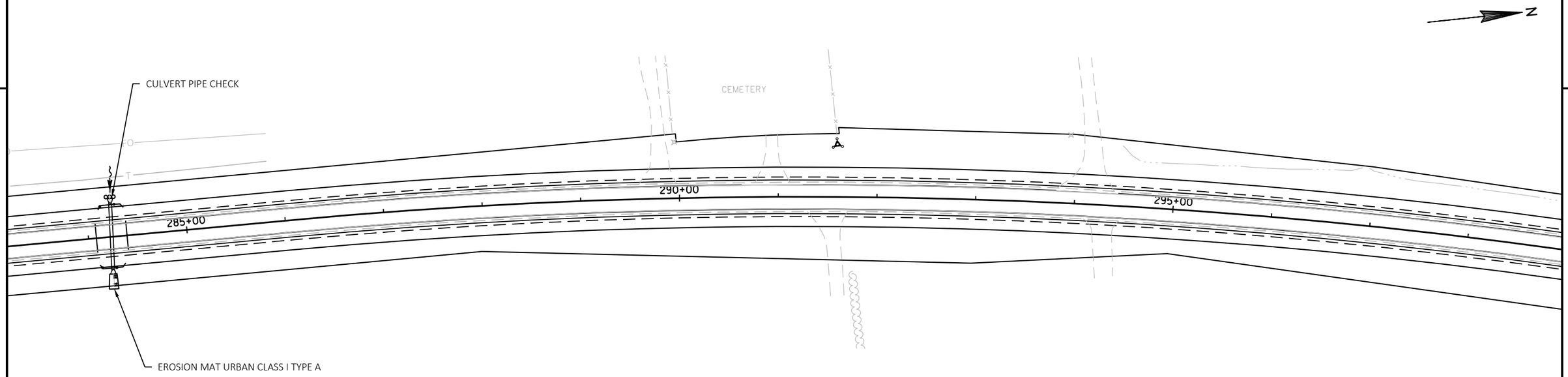


PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 30	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\020000-TYPICAL SECTIONS AND DETAILS\020600-EROSION CONTROL\020601_EC.DWG
LAYOUT NAME - 020609

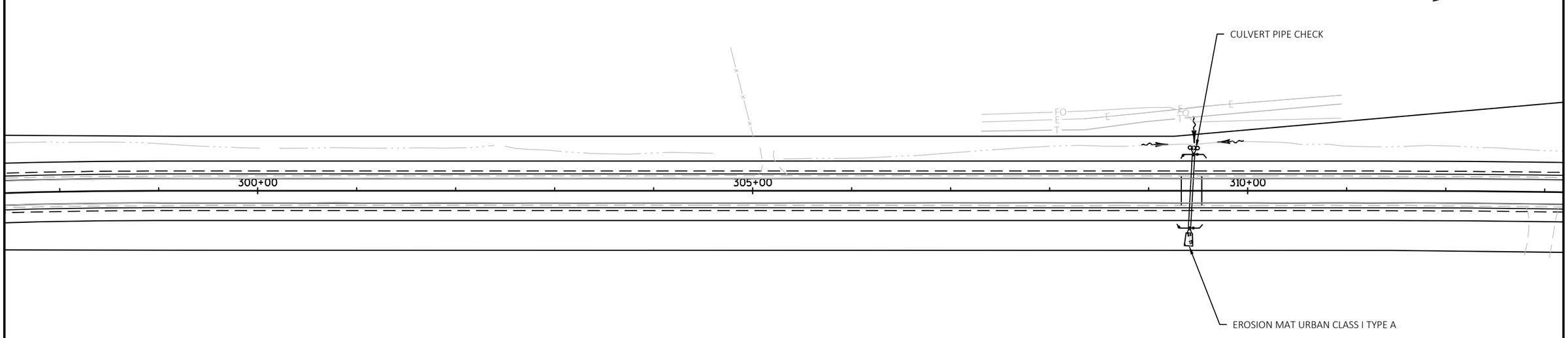
PLOT DATE : 11/7/2017 1:44 PM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : ##########

2



LEGEND

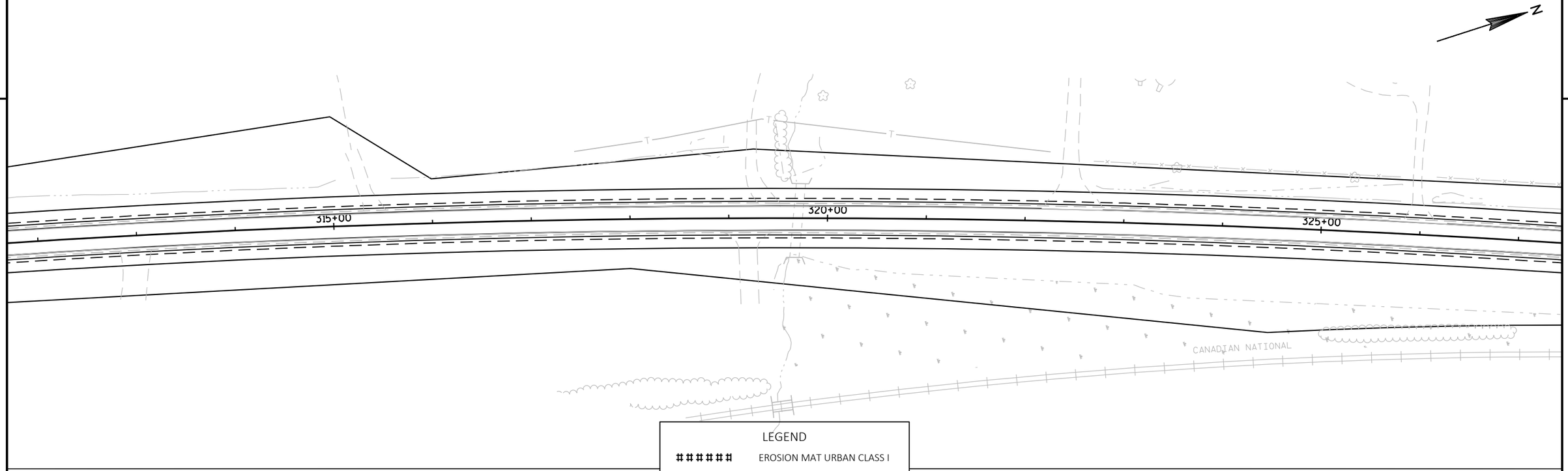
- EROSION MAT URBAN CLASS I
- SILT FENCE
- SURFACE WATER FLOW



PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 31	E

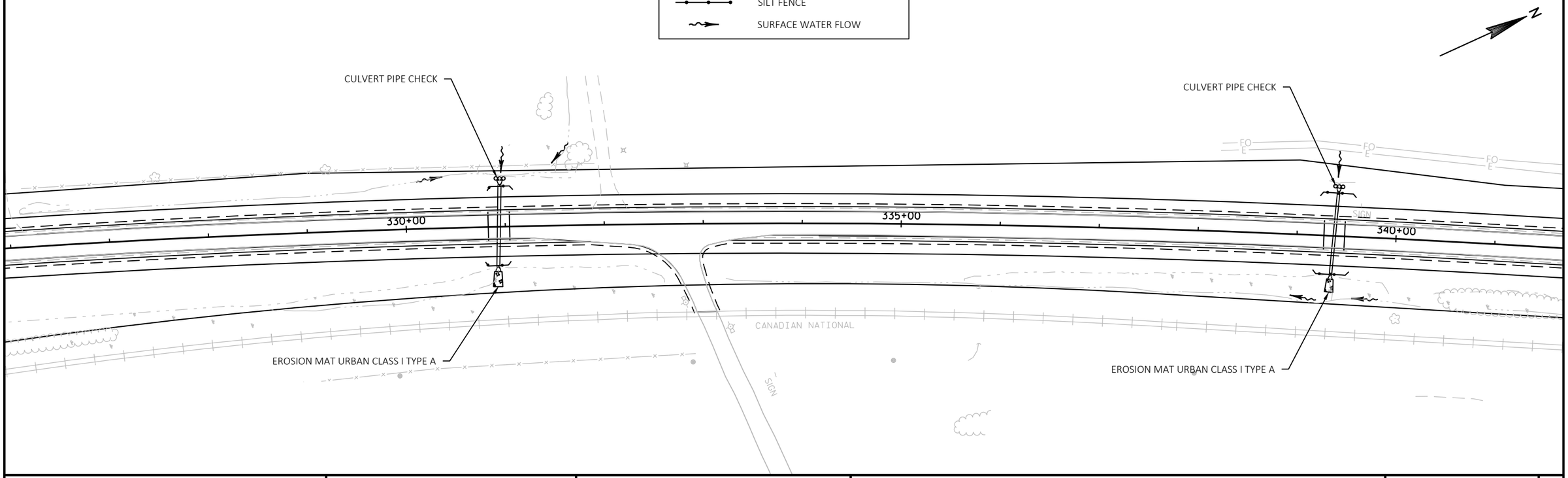
FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\020000-TYPICAL SECTIONS AND DETAILS\020600-EROSION CONTROL\020601_EC.DWG
LAYOUT NAME - 020610
PLOT DATE : 11/7/2017 1:44 PM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : ##########
WISDOT/CADDS SHEET 44

2



LEGEND

- EROSION MAT URBAN CLASS I
- SILT FENCE
- SURFACE WATER FLOW

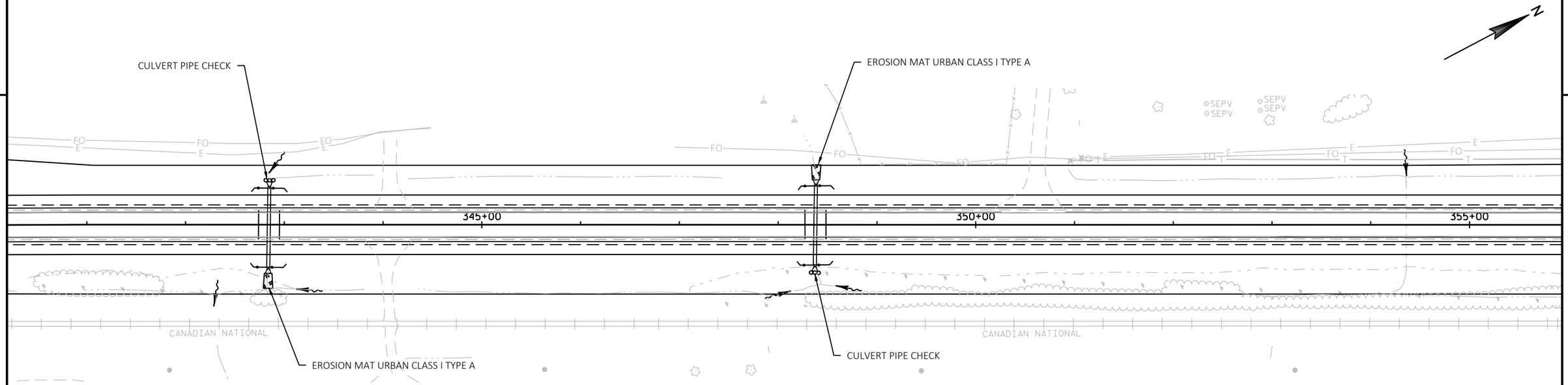


PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 32	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\020000-TYPICAL SECTIONS AND DETAILS\020600-EROSION CONTROL\020601_EC.DWG
LAYOUT NAME - 020611

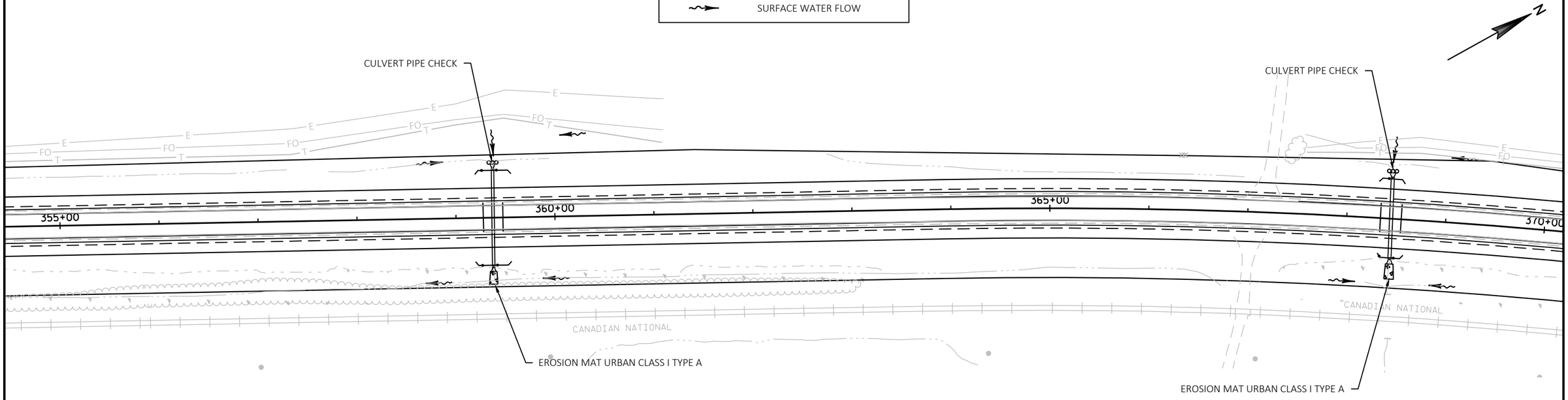
PLOT DATE : 11/7/2017 1:44 PM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : ##########

2



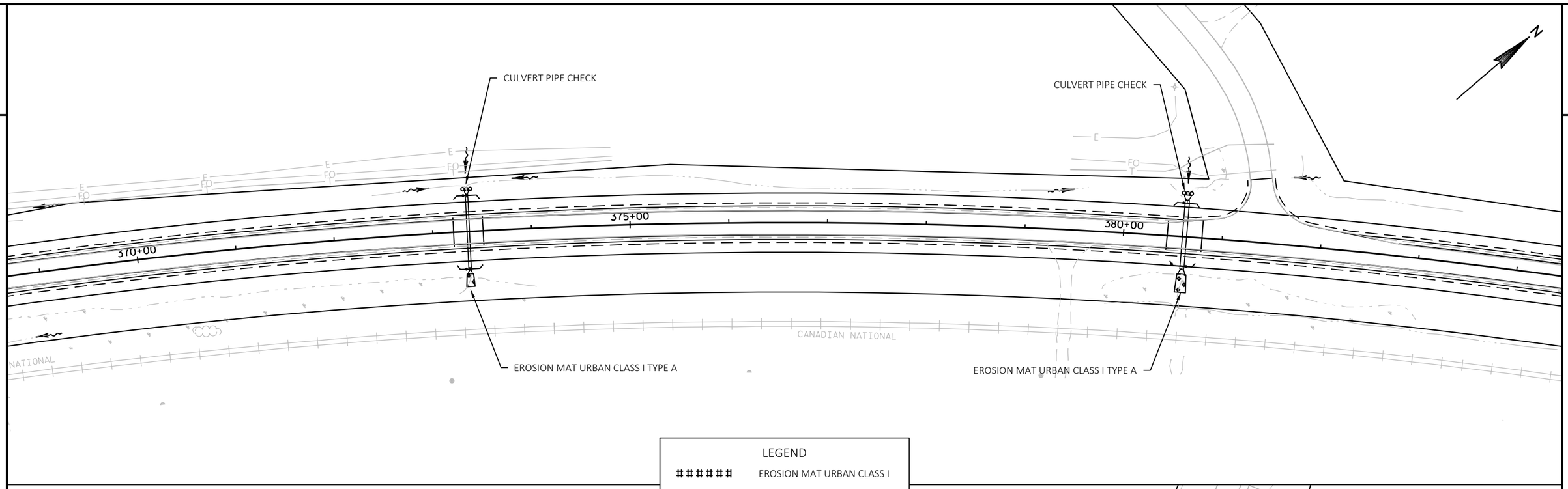
LEGEND

- EROSION MAT URBAN CLASS I
- SILT FENCE
- SURFACE WATER FLOW



PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 33	E

2

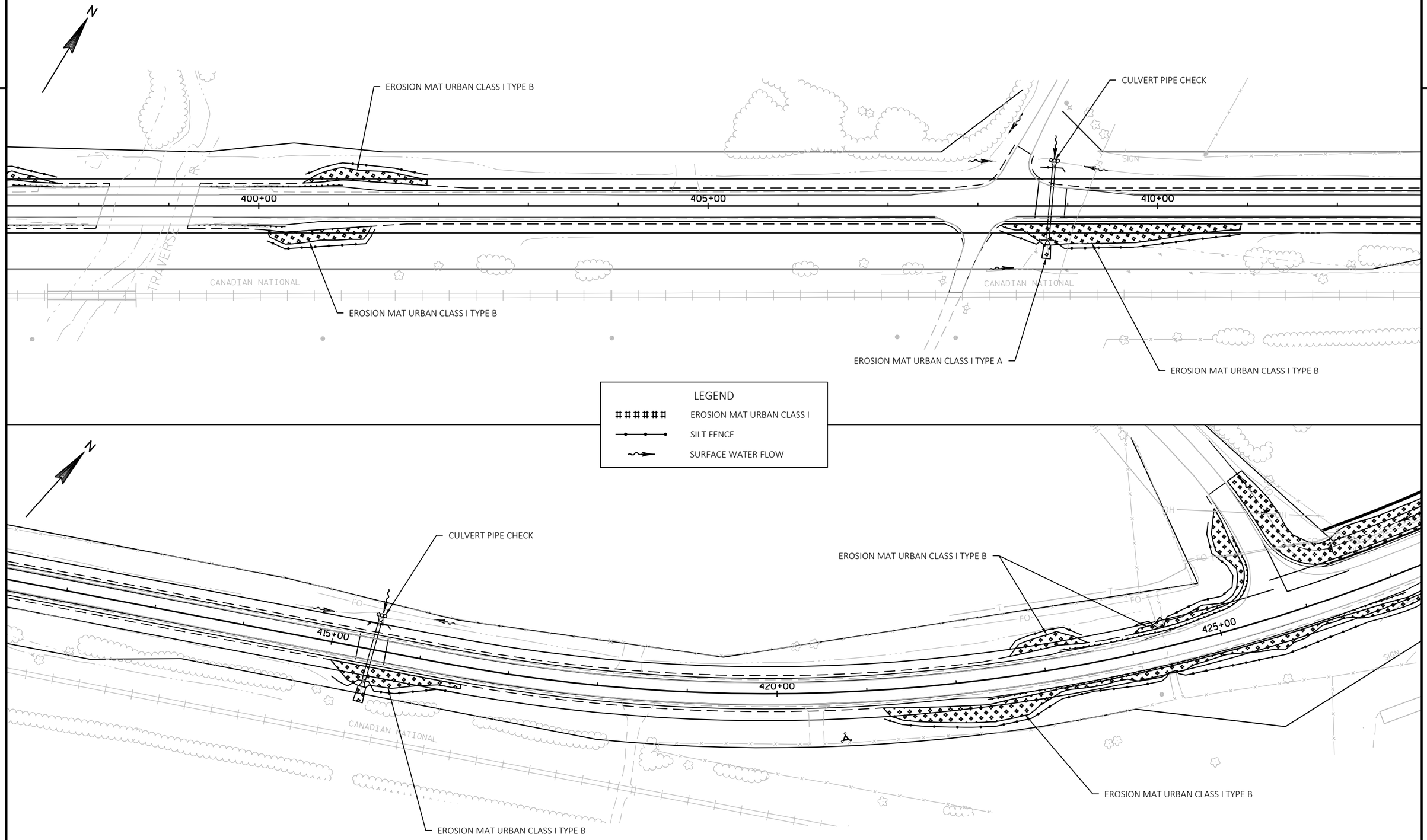


LEGEND

- EROSION MAT URBAN CLASS I
- SILT FENCE
- SURFACE WATER FLOW

PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 34	E

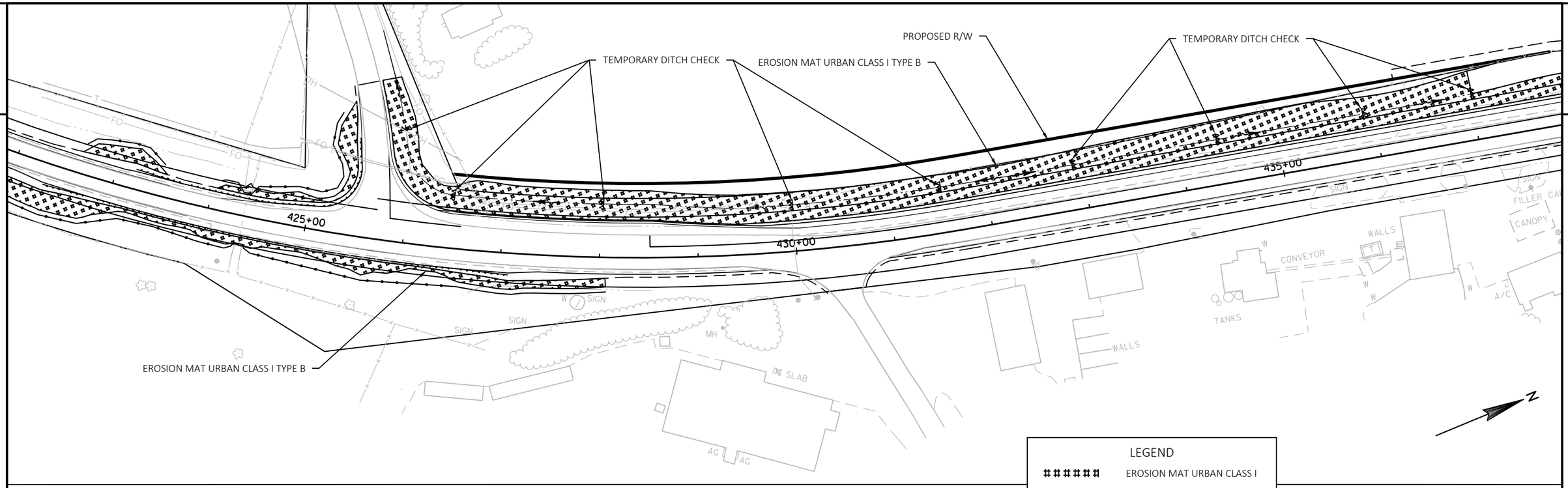
2



PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 35	E

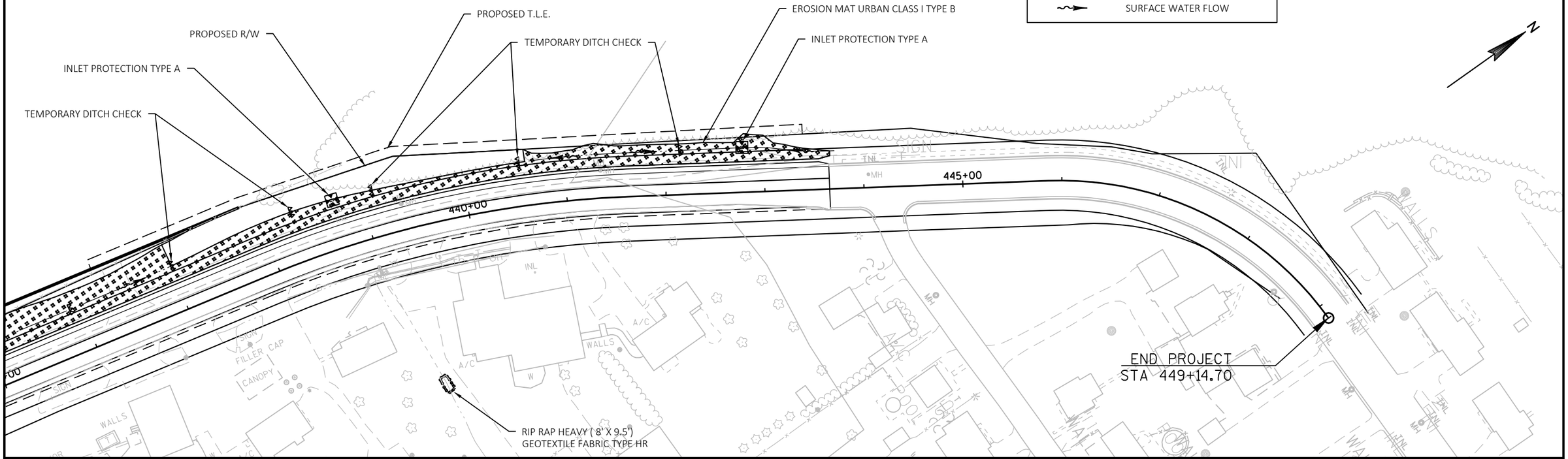
FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\020000-TYPICAL SECTIONS AND DETAILS\020600-EROSION CONTROL\020601_EC.DWG
LAYOUT NAME - 020614
PLOT DATE : 11/7/2017 1:44 PM
PLOT BY : PAYNE, MATTHEW A
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 44

2



LEGEND

- EROSION MAT URBAN CLASS I
- SILT FENCE
- SURFACE WATER FLOW

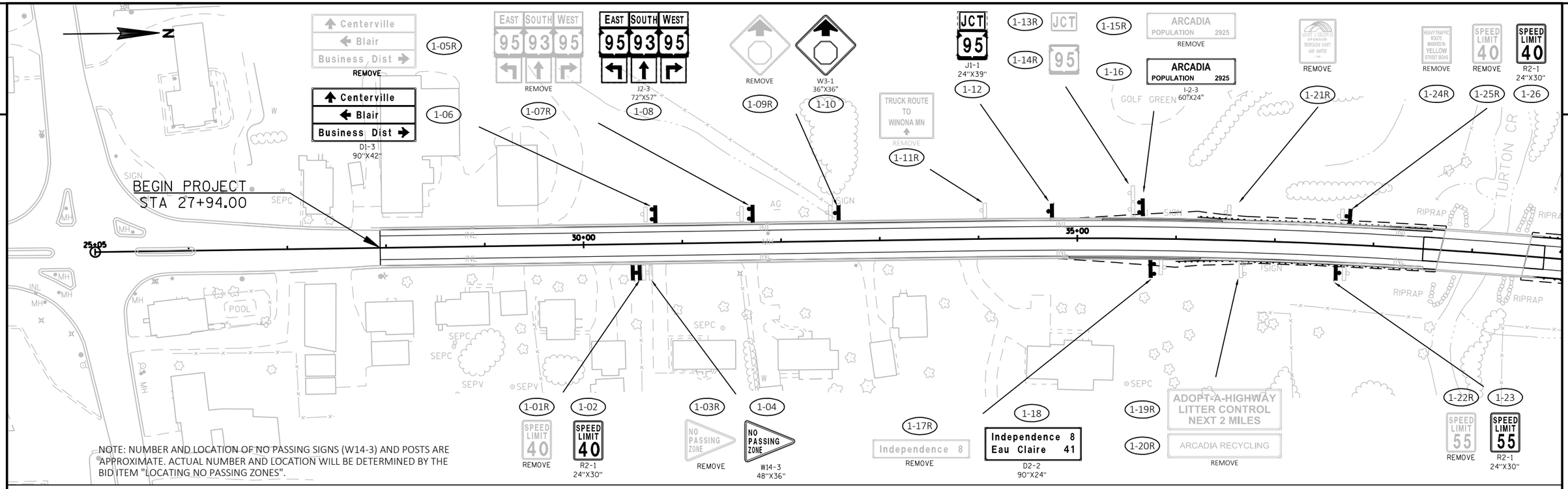


PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 36	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\020000-TYPICAL SECTIONS AND DETAILS\020600-EROSION CONTROL\020601_EC.DWG
LAYOUT NAME - 020615

PLOT DATE : 11/7/2017 1:44 PM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : ###########

WISDOT/CADDS SHEET 44



PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PERMANENT SIGNING DETAILS	SHEET 37	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\020000-TYPICAL SECTIONS AND DETAILS\020700-PERMANENT SIGNING\020701_PS.DWG
LAYOUT NAME - 020401

PLOT DATE : 10/19/2017 2:25 PM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

NOTE: NUMBER AND LOCATION OF NO PASSING SIGNS (W14-3) AND POSTS ARE APPROXIMATE. ACTUAL NUMBER AND LOCATION WILL BE DETERMINED BY THE BID ITEM "LOCATING NO PASSING ZONES".

N

NO PASSING ZONE
REMOVE
2-01R

NO PASSING ZONE
W14-3
48"X36"
2-02

55+00 60+00 65+00

LEGEND

	EXISTING SIGN MOUNTED ON POST(S)
	PROPOSED SIGN MOUNTED ON POST(S)
X-XX	DENOTES SIGN NUMBER
ESTR	EXISTING SIGN TO REMAIN

N

70+00 75+00 80+00

REMOVE 2-15R — W1-8 18"X24" 2-16
REMOVE 2-17R — W1-8 18"X24" 2-18
REMOVE 2-19R — W1-8 18"X24" 2-20
REMOVE 2-21R — W1-8 18"X24" 2-22

2-03 — W1-2L 30"X30"

2-04 — Loesel Ln → — D1-1 72"X15"

2-05R REMOVE
2-06 — W1-8 18"X24"

2-07R REMOVE
2-08 — W1-8 18"X24"

2-09R REMOVE
2-10 — W1-8 18"X24"

2-11R REMOVE
2-12 — W1-8 18"X24"

2-13R REMOVE
2-14 — STOP R1-1 30"X30"

2-23R — River Valley Rd — REMOVE

2-24 — River Valley Rd → — D1-1 102"X15"

SIGN
RIPRAP
CANOPY

PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PERMANENT SIGNING DETAILS	SHEET 38 E

NOTE: NUMBER AND LOCATION OF NO PASSING SIGNS (W14-3) AND POSTS ARE APPROXIMATE. ACTUAL NUMBER AND LOCATION WILL BE DETERMINED BY THE BID ITEM "LOCATING NO PASSING ZONES".

Loesel Ln
D1-1
72"X15"
3-05

W1-2R
30"X30"
3-06

NO PASSING ZONE
REMOVE
3-11R

NO PASSING ZONE
W14-3
48"X36"
3-12

River Valley Rd
REMOVE
3-13R

River Valley Rd
D1-1
102"X15"
3-14

80+00
85+00
90+00
95+00

3-01R
REMOVE
3-02
W1-8
18"X24"

3-03R
REMOVE
3-04
W1-8
18"X24"

3-07R
STOP
REMOVE
3-08
STOP
R1-1
30"X30"

3-09R
R R
REMOVE
3-10
R R
W10-1
36"X36"

LEGEND

	EXISTING SIGN MOUNTED ON POST(S)
	PROPOSED SIGN MOUNTED ON POST(S)
X-XX	DENOTES SIGN NUMBER
ESTR	EXISTING SIGN TO REMAIN

3-15R
3-16R
45 M.P.H.
REMOVE

W1-2R
30"X30"
3-17
45 M.P.H.
W13-1
18"X18"
3-18

REPLACED BY OTHERS

REMOVE
3-21R
W5-52L
12"X36"
3-22

REMOVE
3-25R
W5-52R
12"X36"
3-26

R R
REMOVE
3-30R
R R
W10-1
36"X36"
3-31

100+00
105+00
110+00

TREMPEALEAU R

CANADIAN NATIONAL

95+00

3-19R
REMOVE
3-20
W5-52R
12"X36"

3-23R
REMOVE
3-24
W5-52L
12"X36"

3-27R
JCT
COUNTY
A
3-28R

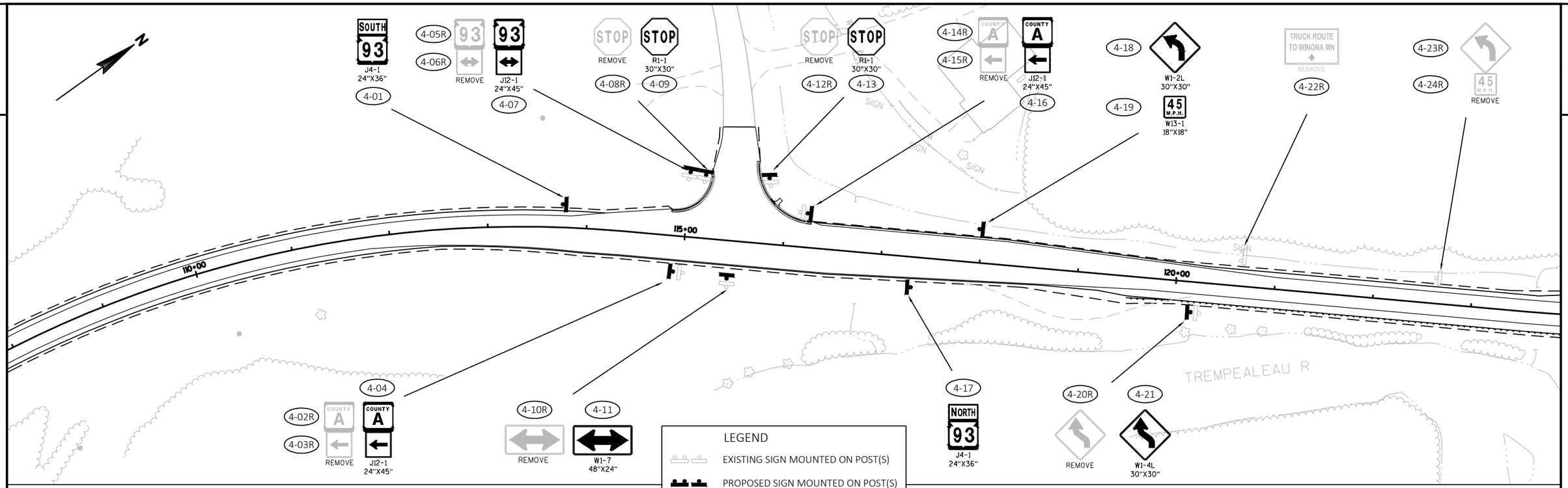
3-29
JCT
COUNTY
A
J1-1
24"X39"

REPLACED BY OTHERS

PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PERMANENT SIGNING DETAILS	SHEET 39	E

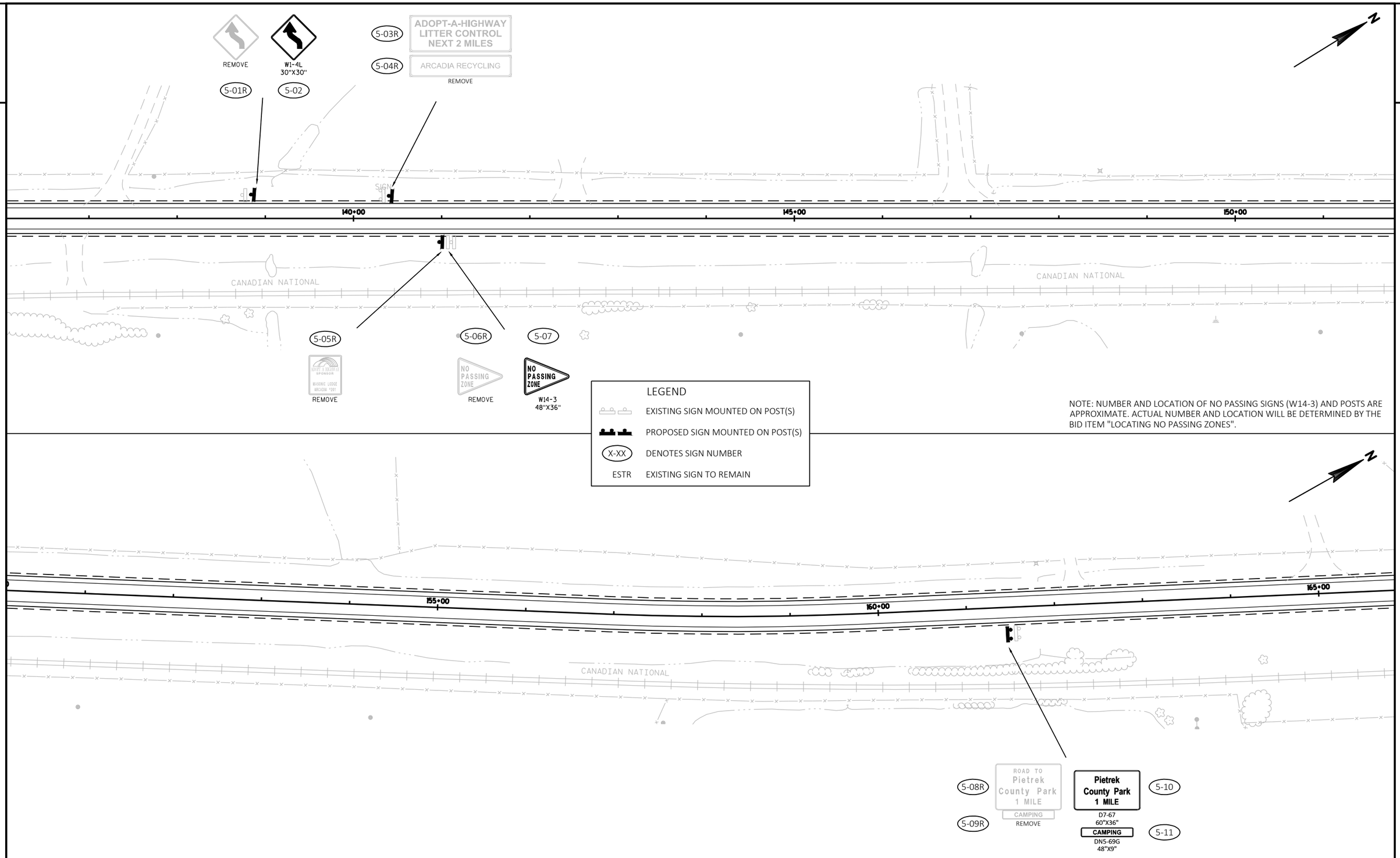
FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\020000-TYPICAL SECTIONS AND DETAILS\020700-PERMANENT SIGNING\020701_PS.DWG
LAYOUT NAME - 020403
PLOT DATE : 10/19/2017 2:25 PM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PERMANENT SIGNING DETAILS	SHEET 40	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\020000-TYPICAL SECTIONS AND DETAILS\020700-PERMANENT SIGNING\020701_PS.DWG
LAYOUT NAME - 020404
PLOT DATE : 10/19/2017 2:26 PM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42



LEGEND

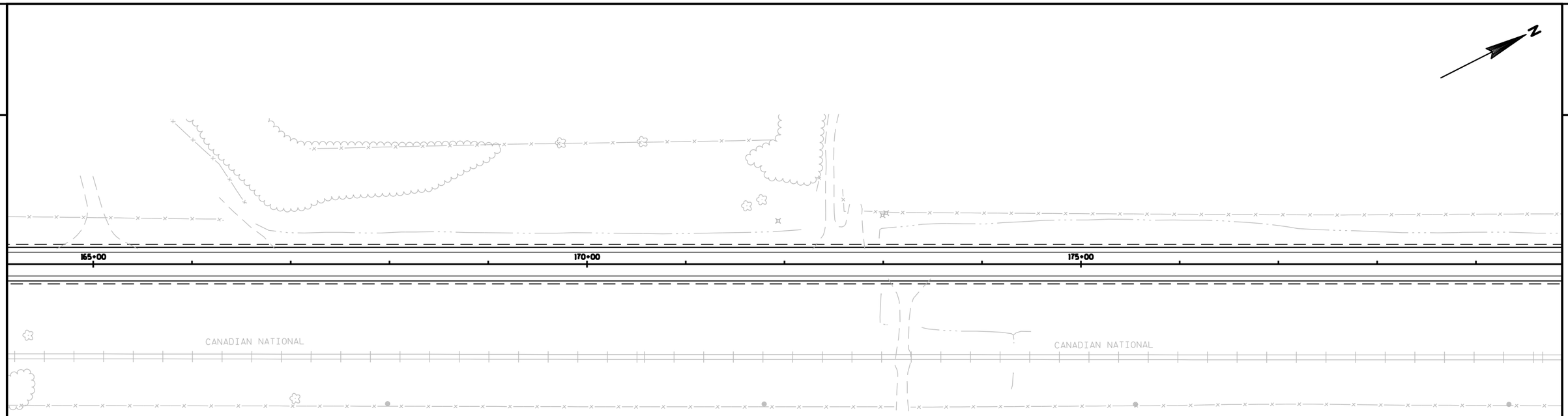
	EXISTING SIGN MOUNTED ON POST(S)
	PROPOSED SIGN MOUNTED ON POST(S)
X-XX	DENOTES SIGN NUMBER
ESTR	EXISTING SIGN TO REMAIN

NOTE: NUMBER AND LOCATION OF NO PASSING SIGNS (W14-3) AND POSTS ARE APPROXIMATE. ACTUAL NUMBER AND LOCATION WILL BE DETERMINED BY THE BID ITEM "LOCATING NO PASSING ZONES".

PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PERMANENT SIGNING DETAILS	SHEET 41	E

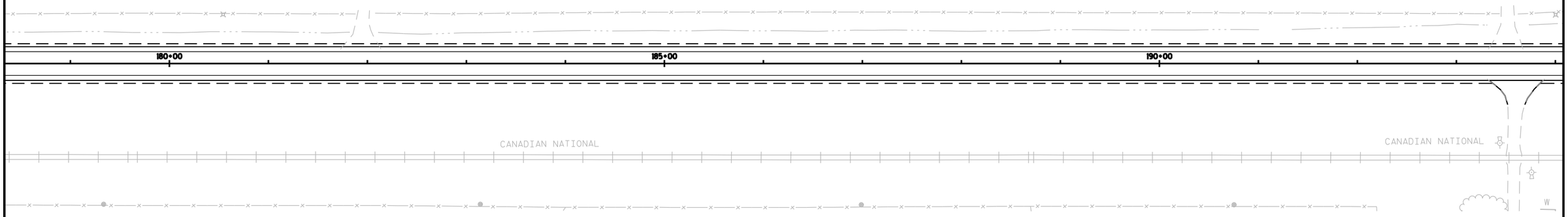
2

2



LEGEND

	EXISTING SIGN MOUNTED ON POST(S)
	PROPOSED SIGN MOUNTED ON POST(S)
X-XX	DENOTES SIGN NUMBER
ESTR	EXISTING SIGN TO REMAIN



PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PERMANENT SIGNING DETAILS	SHEET 42	E

NOTE: NUMBER AND LOCATION OF NO PASSING SIGNS (W14-3) AND POSTS ARE APPROXIMATE. ACTUAL NUMBER AND LOCATION WILL BE DETERMINED BY THE BID ITEM "LOCATING NO PASSING ZONES".

NO PASSING ZONE
REMOVE
7-01R

NO PASSING ZONE
W14-3
48"X36"
7-02

STOP
REMOVE
7-05R

STOP
R1-1
30"X30"
7-06

RIPRAP
CANADIAN NATIONAL
195+00
200+00
205+00

Lewis Valley Rd
REMOVE
7-03R

Lewis Valley Rd
D1-1
102"X15"
7-04

7-07R
REMOVE

7-08
W10-3
36"X36"

LEGEND

	EXISTING SIGN MOUNTED ON POST(S)
	PROPOSED SIGN MOUNTED ON POST(S)
X-XX	DENOTES SIGN NUMBER
ESTR	EXISTING SIGN TO REMAIN

Lewis Valley Rd
REMOVE
7-09R

Lewis Valley Rd
D1-1
102"X15"
7-10

Pietrek County Park
REMOVE

Pietrek County Park
D7-68-L
60"X36"
7-13R
7-14

REMOVE
7-19R

W10-3
36"X36"
7-20

210+00
215+00
220+00
CANADIAN NATIONAL

7-11R
Pietrek County Park
REMOVE

7-12
Pietrek County Park
D7-68-R
60"X36"

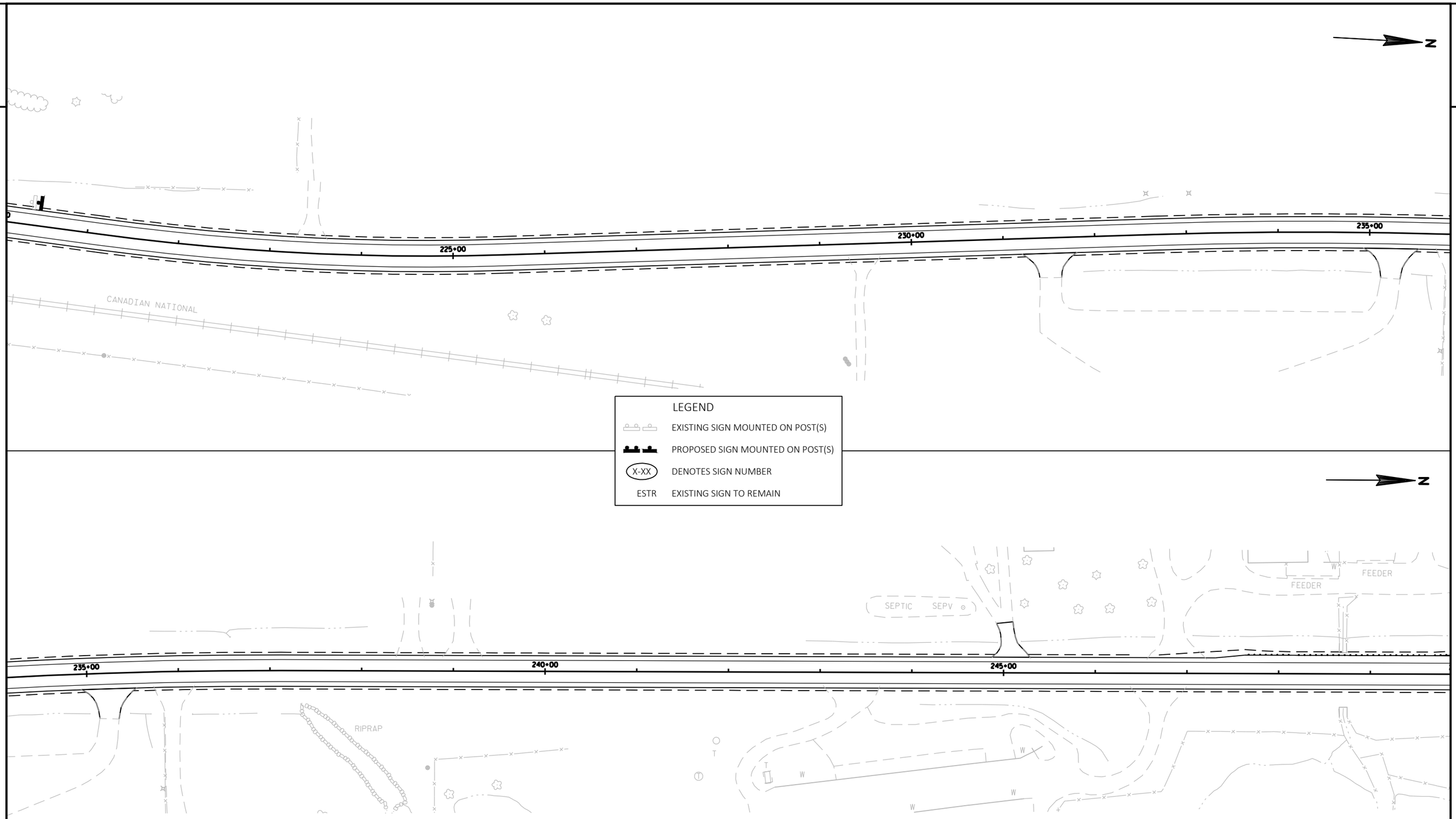
7-15R
STOP
REMOVE

7-16
STOP
R1-1
30"X30"

7-17R
NO PASSING ZONE
REMOVE

7-18
NO PASSING ZONE
W14-3
48"X36"

PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PERMANENT SIGNING DETAILS	SHEET 43	E



LEGEND

	EXISTING SIGN MOUNTED ON POST(S)
	PROPOSED SIGN MOUNTED ON POST(S)
X-XX	DENOTES SIGN NUMBER
ESTR	EXISTING SIGN TO REMAIN

2

PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PERMANENT SIGNING DETAILS	SHEET 44	E

2

2

N

REMOVE

9-02R

FEEDER

FEEDER

250+00

255+00

260+00

9-01R

SLAB

REMOVE

9-05

9-03R

9-04R

REMOVE

J1-1
24"X39"

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON POST(S)

X-XX DENOTES SIGN NUMBER

ESTR EXISTING SIGN TO REMAIN

9-06R

ROAD TO
PIETREK
County Park
1 MILE
CAMPING

REMOVE

9-07R

Pietrek
County Park
1 MILE

D7-67
60"X36"

CAMPING

DN5-69G
48"X9"

9-08

9-09

9-11R

9-12R

REMOVE

J12-1
24"X45"

9-13

REMOVE

9-17R

R1-1
30"X30"

9-18

9-21R

9-22R

REMOVE

J12-1
24"X45"

9-23

N

SOUTH
93

J4-1
24"X36"

9-10

A/C

265+00

270+00

275+00

9-14R

9-15R

REMOVE

9-16

J12-1
24"X45"

9-19R

REMOVE

9-20

W1-7
48"X24"

9-24

NORTH
93

J4-1
24"X36"

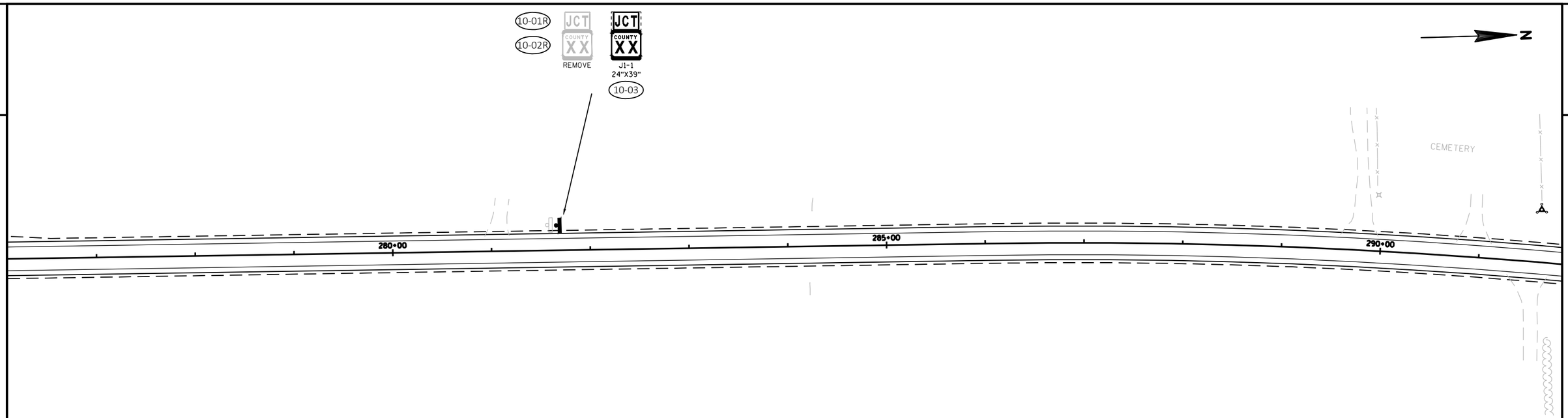
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PERMANENT SIGNING DETAILS	SHEET 45	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\020000-TYPICAL SECTIONS AND DETAILS\020700-PERMANENT SIGNING\020701_PS.DWG
LAYOUT NAME - 020409

PLOT DATE : 10/19/2017 2:26 PM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:100 FT

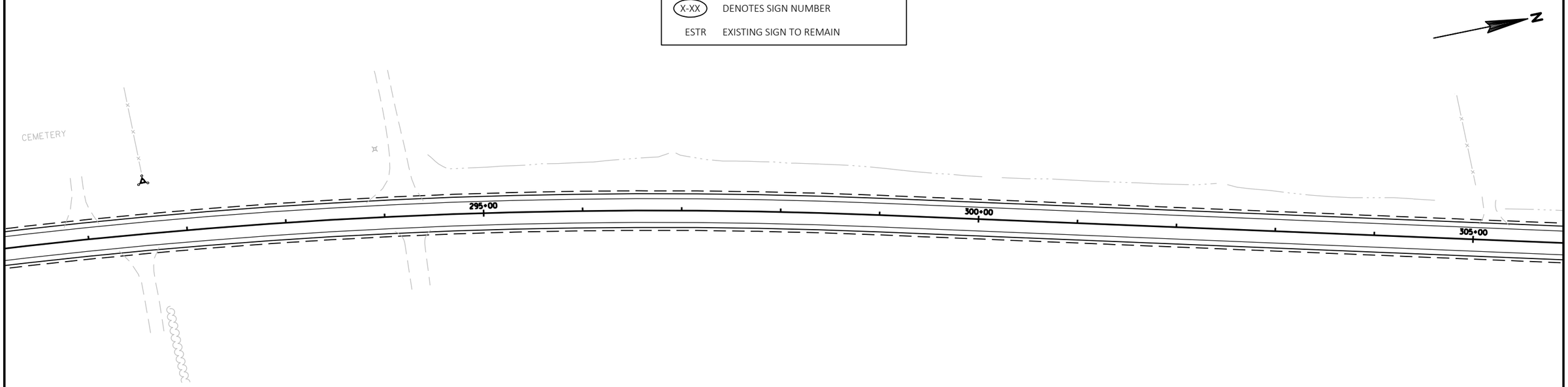
WISDOT/CADDS SHEET 42

2



LEGEND

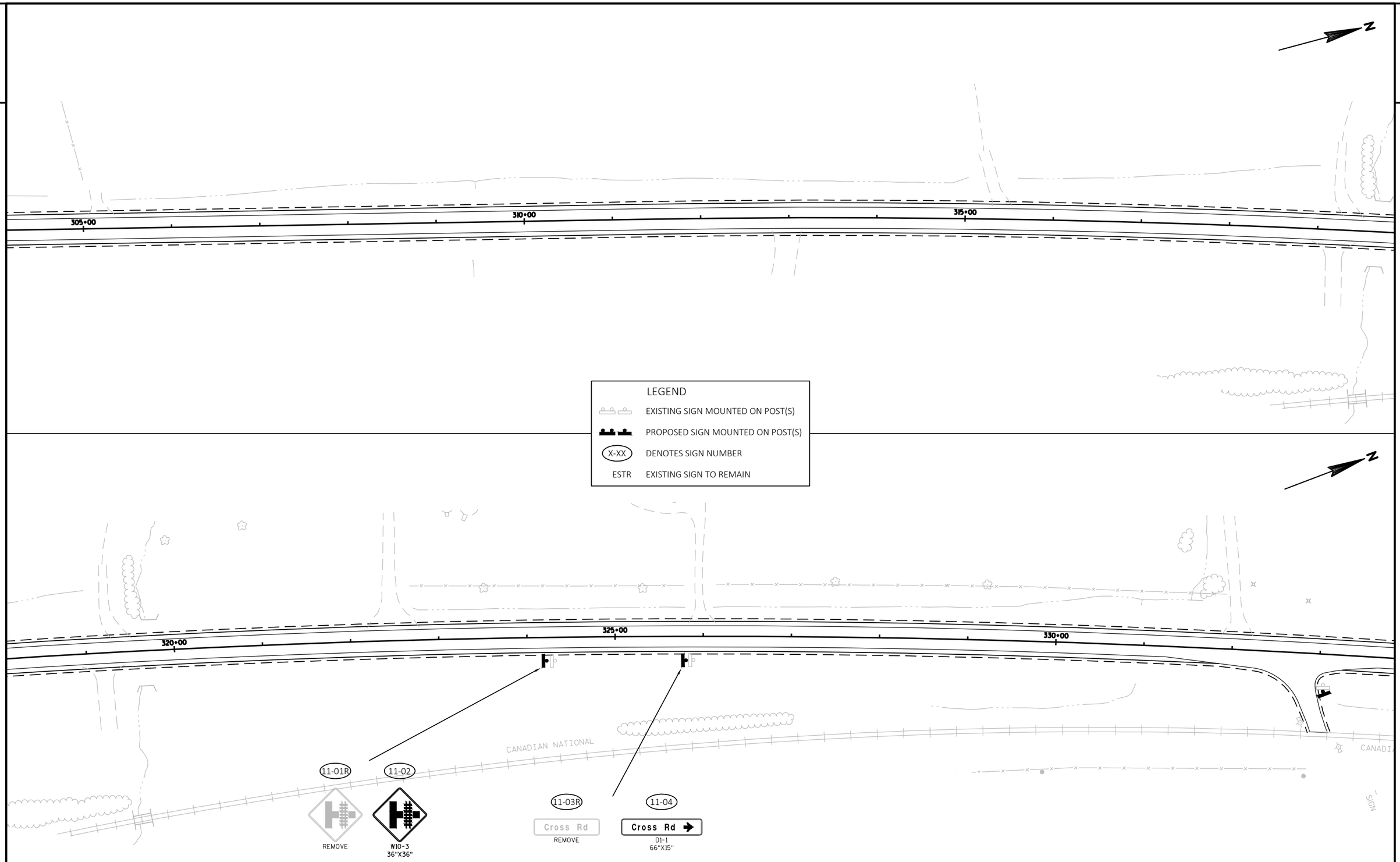
	EXISTING SIGN MOUNTED ON POST(S)
	PROPOSED SIGN MOUNTED ON POST(S)
X-XX	DENOTES SIGN NUMBER
ESTR	EXISTING SIGN TO REMAIN



PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PERMANENT SIGNING DETAILS	SHEET 46	E

2

2



LEGEND

	EXISTING SIGN MOUNTED ON POST(S)
	PROPOSED SIGN MOUNTED ON POST(S)
X-XX	DENOTES SIGN NUMBER
ESTR	EXISTING SIGN TO REMAIN

PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PERMANENT SIGNING DETAILS	SHEET 47	E

2

REMOVE

12-03R

Cross Rd

REMOVE

12-06R

Cross Rd

D1-1
66"X15"

12-07

REMOVE

12-08R

W10-3
36"X36"

12-09

335+00

340+00

345+00

CANADIAN NATIONAL

CANADIAN NATIONAL

12-01R

12-02

STOP

REMOVE

STOP

R1-1
30"X30"

12-04R

REMOVE

12-05

I55-56
30"X36"

LEGEND

	EXISTING SIGN MOUNTED ON POST(S)
	PROPOSED SIGN MOUNTED ON POST(S)
X-XX	DENOTES SIGN NUMBER
ESTR	EXISTING SIGN TO REMAIN

SEPV
SEPV
SEPV
SEPV

350+00

355+00

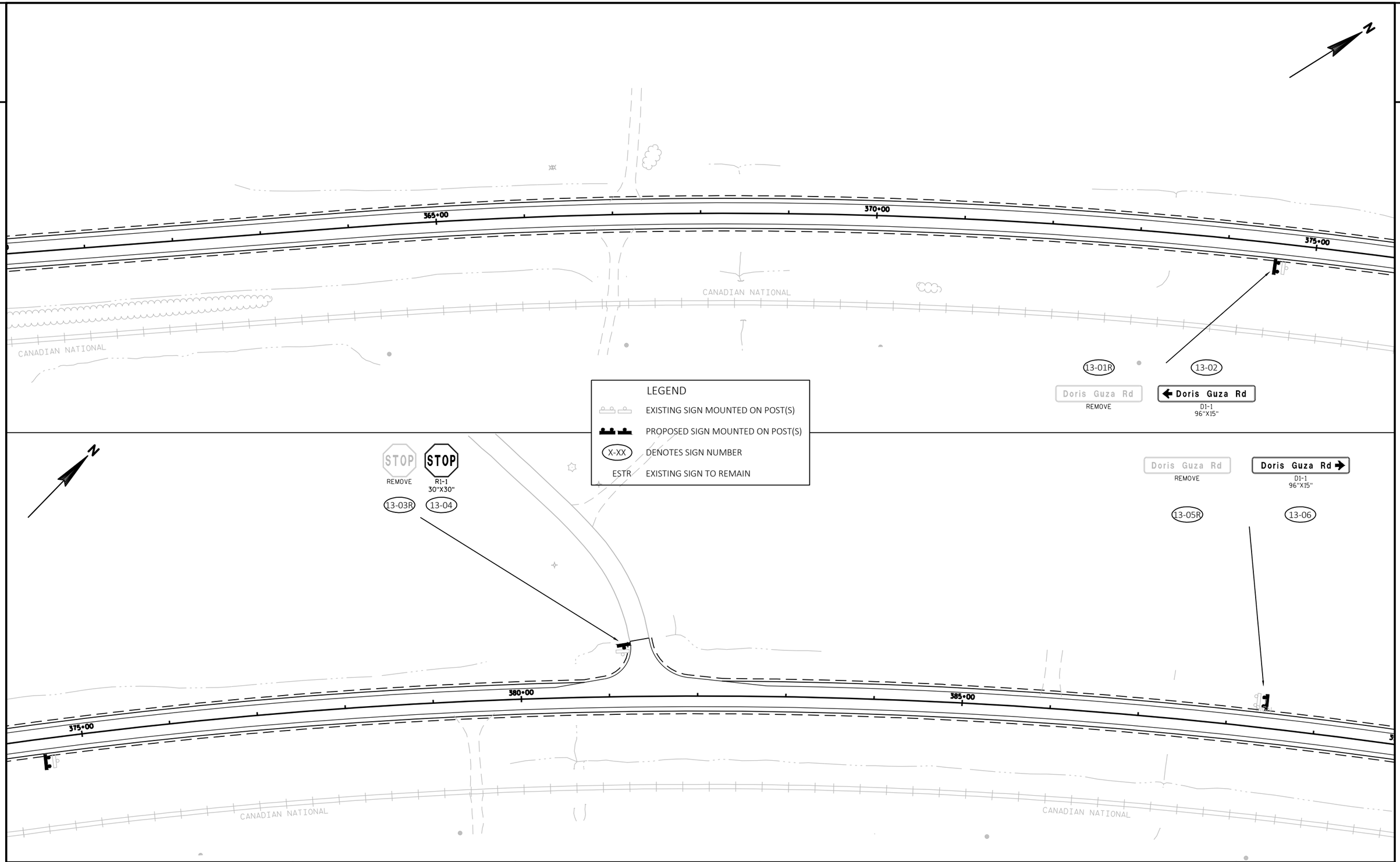
360+00

CANADIAN NATIONAL

CANADIAN NATIONAL

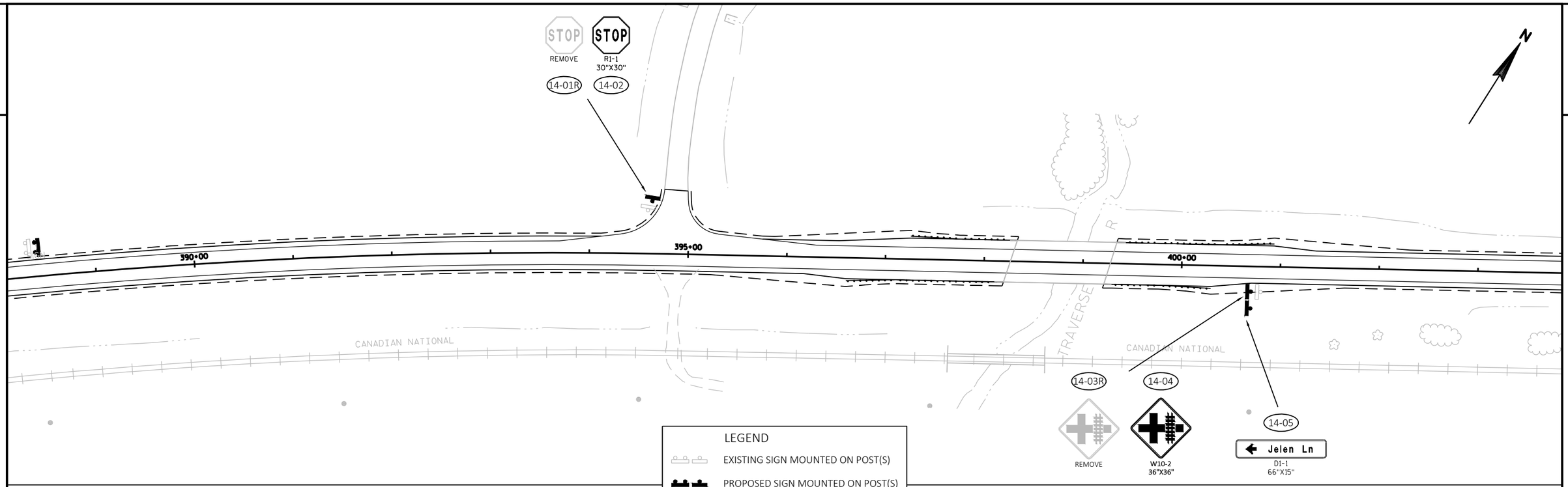
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PERMANENT SIGNING DETAILS	SHEET 48	E

2



PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PERMANENT SIGNING DETAILS	SHEET 49	E

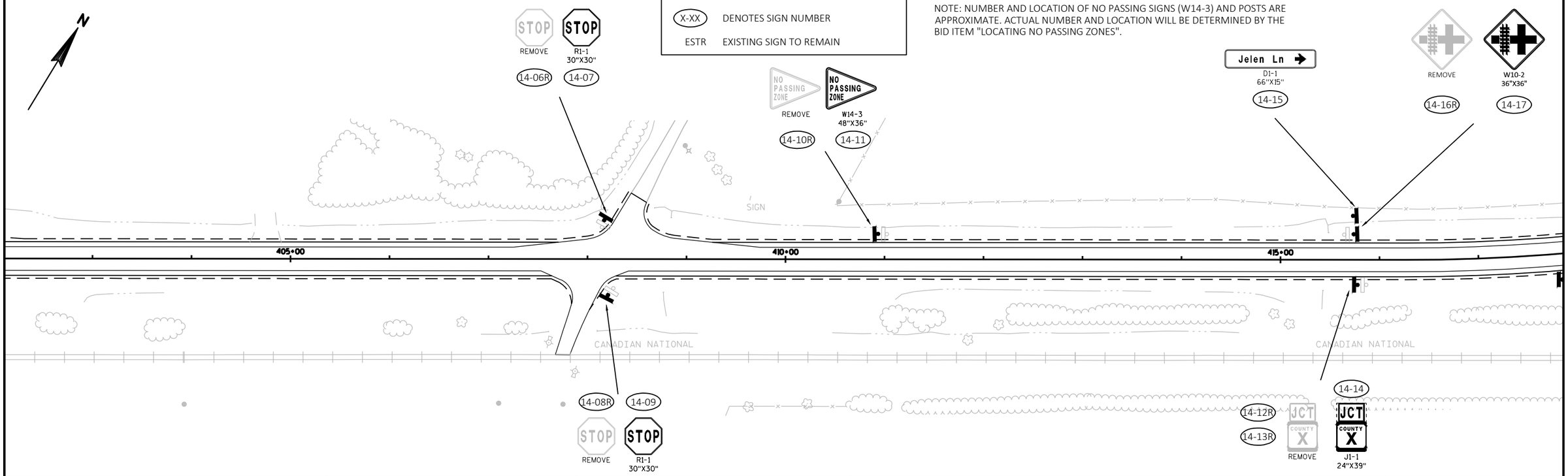
2



LEGEND

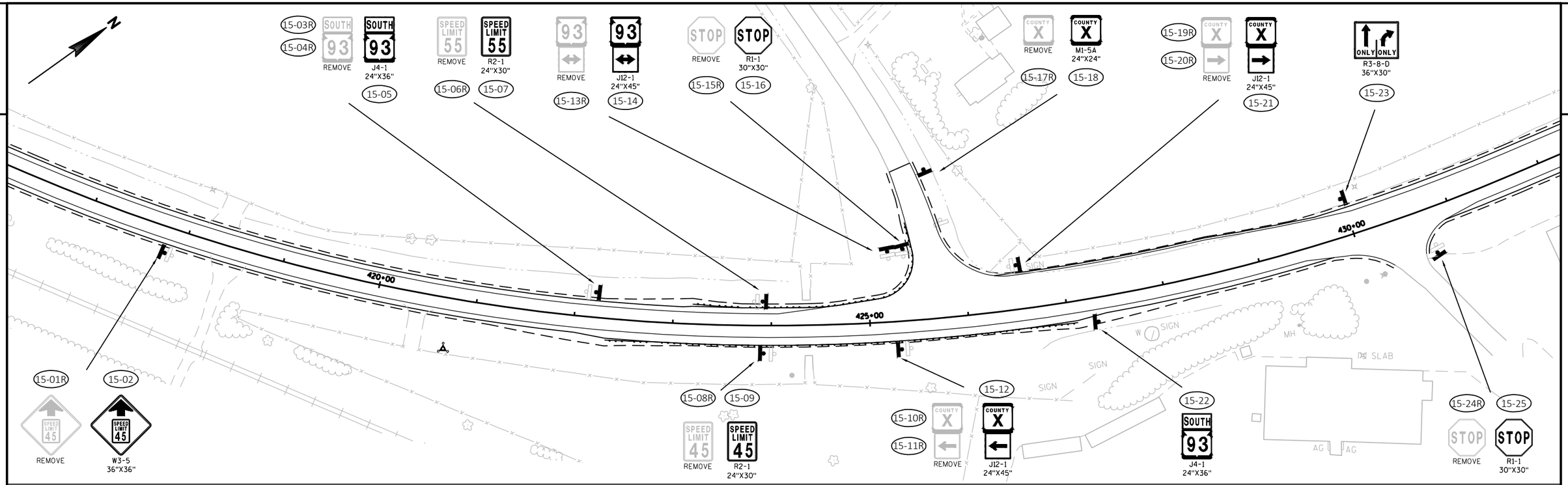
	EXISTING SIGN MOUNTED ON POST(S)
	PROPOSED SIGN MOUNTED ON POST(S)
X-XX	DENOTES SIGN NUMBER
ESTR	EXISTING SIGN TO REMAIN

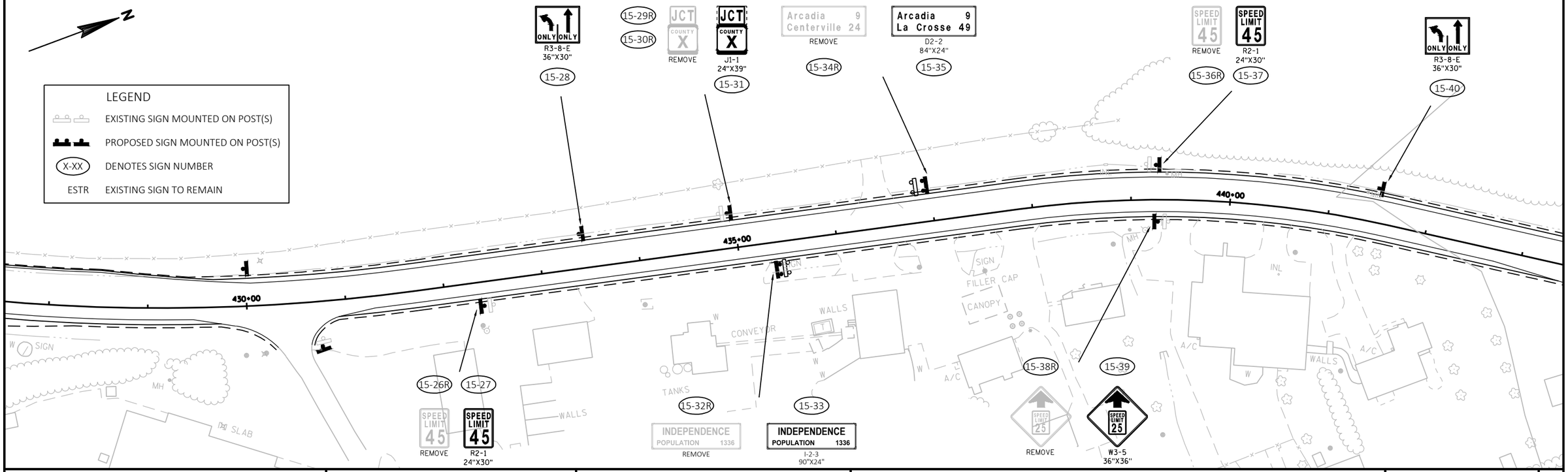
NOTE: NUMBER AND LOCATION OF NO PASSING SIGNS (W14-3) AND POSTS ARE APPROXIMATE. ACTUAL NUMBER AND LOCATION WILL BE DETERMINED BY THE BID ITEM "LOCATING NO PASSING ZONES".



PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PERMANENT SIGNING DETAILS	SHEET 50	E

2





PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PERMANENT SIGNING DETAILS	SHEET 51	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\020000-TYPICAL SECTIONS AND DETAILS\020700-PERMANENT SIGNING\020701_PS.DWG
LAYOUT NAME - 020415
PLOT DATE : 10/19/2017 2:26 PM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- X-XX — DENOTES SIGN NUMBER
- ESTR — EXISTING SIGN TO REMAIN

N

ESTR

ESTR

ESTR

ESTR

ESTR

ESTR

SPEED LIMIT 45
ESTR

ESTR

R3-8-E
36"x30"
16-01

440+00

445+00

449+15

STOP
ESTR

NO PARKING
ESTR

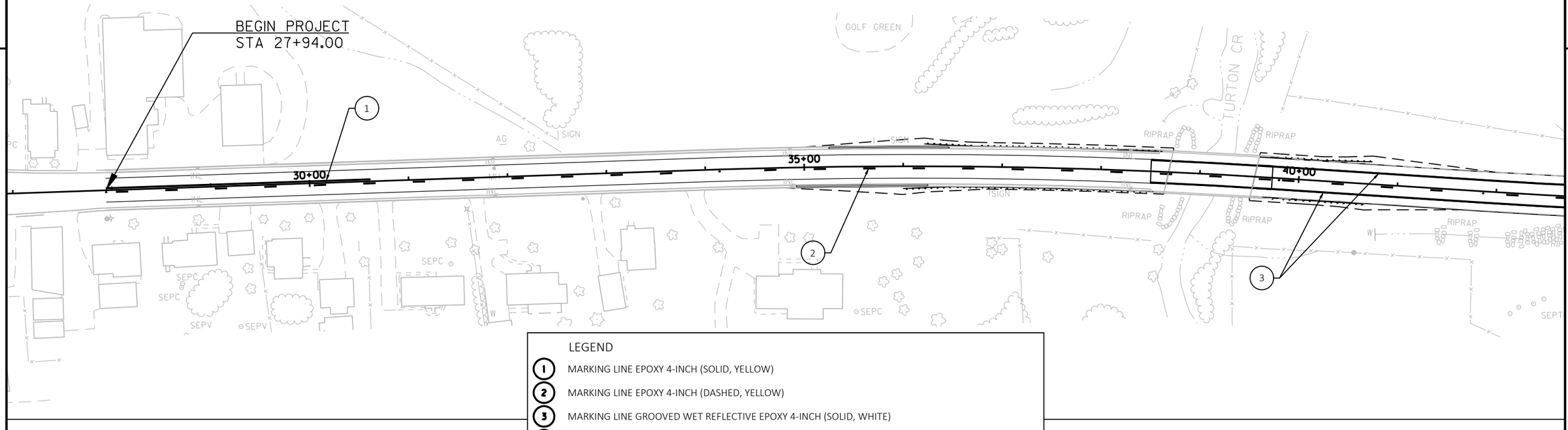
SPEED LIMIT 45
ESTR

NO PARKING
ESTR

END PROJECT
STA 449+14.70

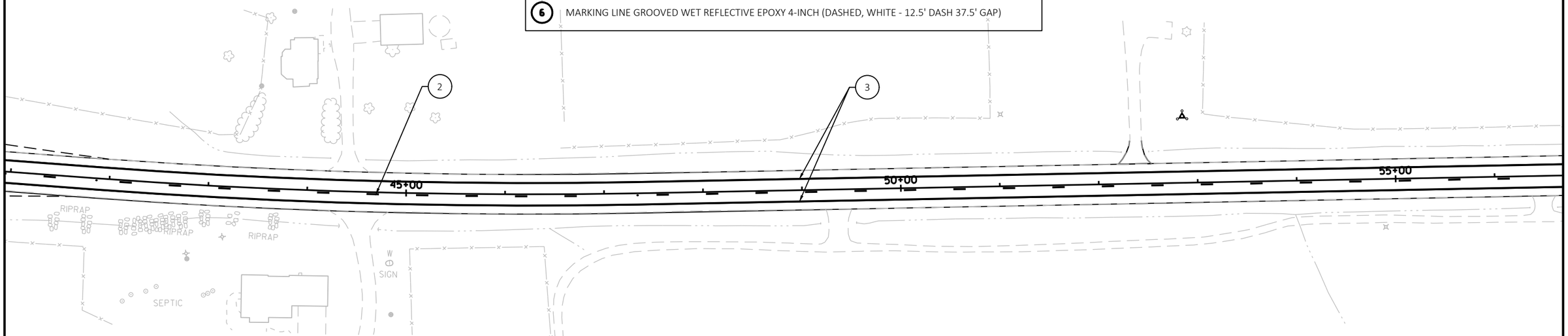
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PERMANENT SIGNING DETAILS	SHEET 52	E

NOTE: NO PASSING ZONE START AND END LOCATIONS SHOWN ON PLANARE APPROXIMATE. ACTUAL LOCATIONS TO BE DETERMINED BY THE BID ITEM "LOCATING NO PASSING ZONES".



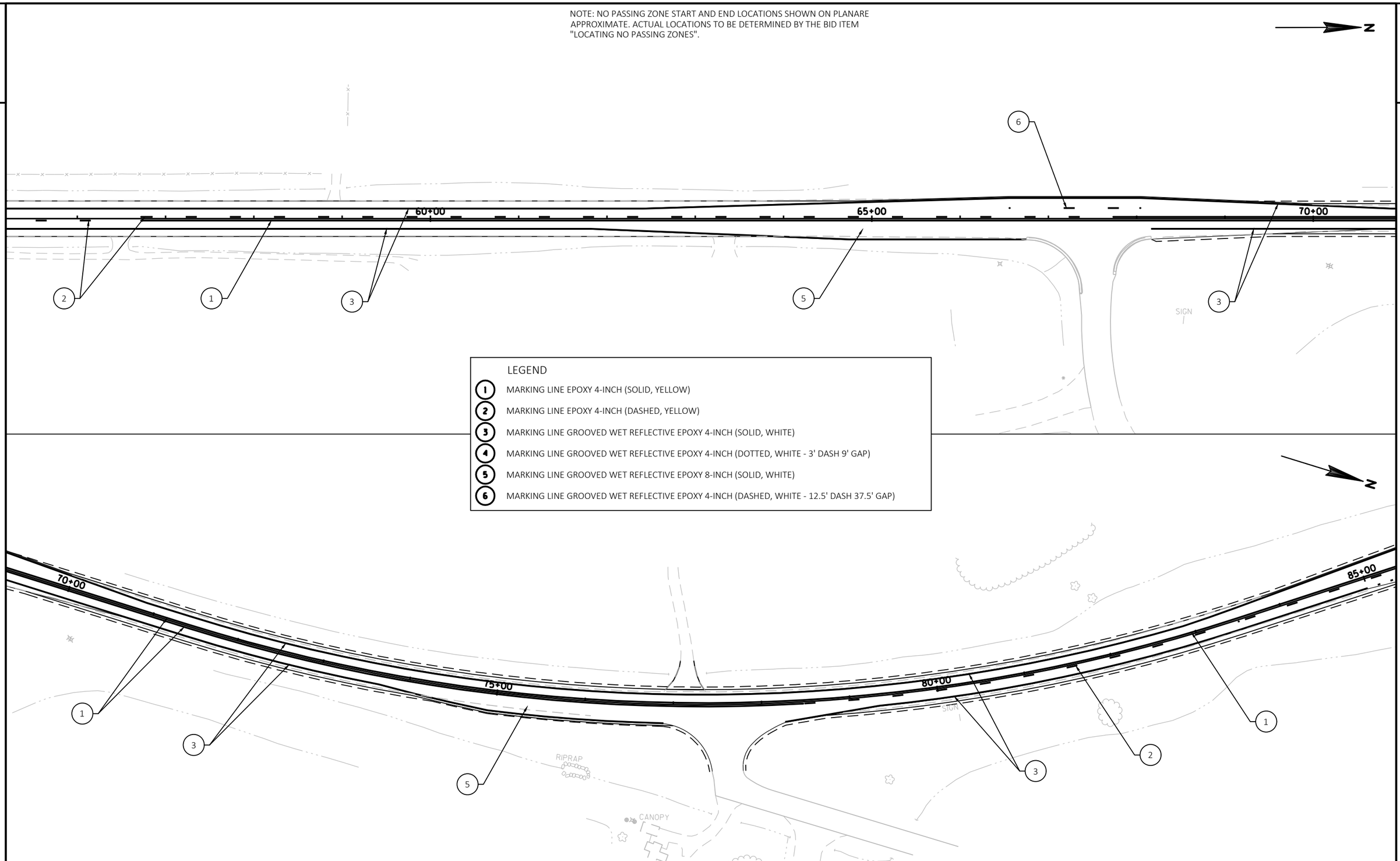
LEGEND

1. MARKING LINE EPOXY 4-INCH (SOLID, YELLOW)
2. MARKING LINE EPOXY 4-INCH (DASHED, YELLOW)
3. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (SOLID, WHITE)
4. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (DOTTED, WHITE - 3' DASH 9' GAP)
5. MARKING LINE GROOVED WET REFLECTIVE EPOXY 8-INCH (SOLID, WHITE)
6. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (DASHED, WHITE - 12.5' DASH 37.5' GAP)



PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PAVEMENT MARKINGS	SHEET 53	E

NOTE: NO PASSING ZONE START AND END LOCATIONS SHOWN ON PLANARE APPROXIMATE. ACTUAL LOCATIONS TO BE DETERMINED BY THE BID ITEM "LOCATING NO PASSING ZONES".

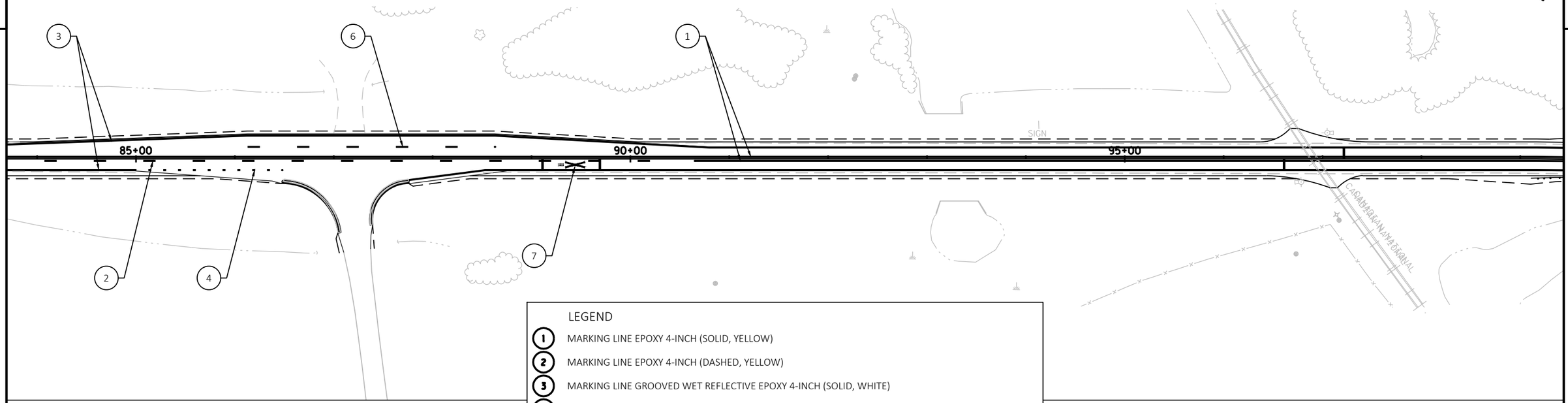


LEGEND

1. MARKING LINE EPOXY 4-INCH (SOLID, YELLOW)
2. MARKING LINE EPOXY 4-INCH (DASHED, YELLOW)
3. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (SOLID, WHITE)
4. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (DOTTED, WHITE - 3' DASH 9' GAP)
5. MARKING LINE GROOVED WET REFLECTIVE EPOXY 8-INCH (SOLID, WHITE)
6. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (DASHED, WHITE - 12.5' DASH 37.5' GAP)

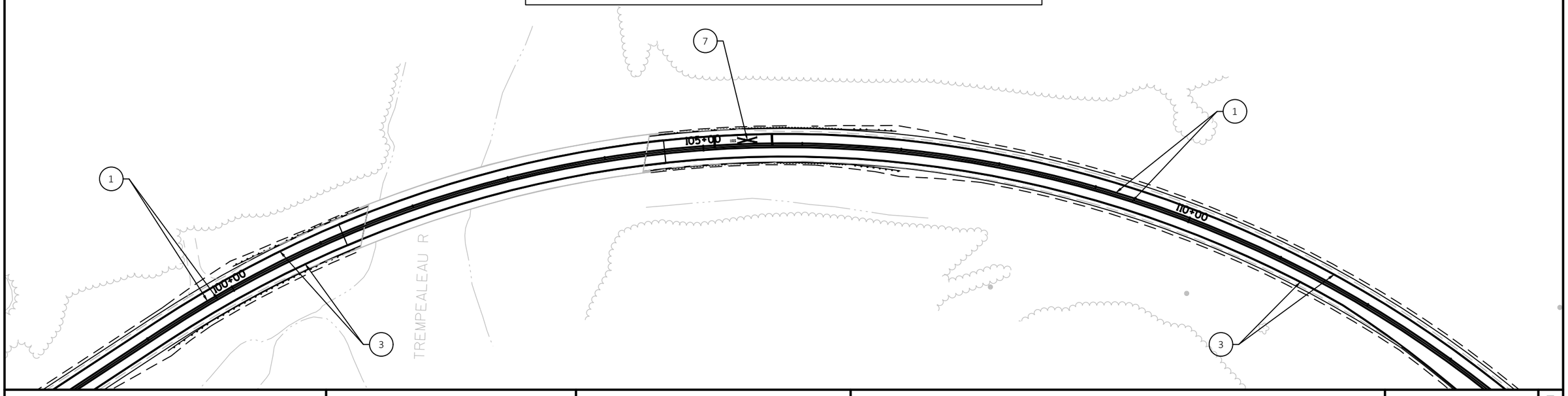
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PAVEMENT MARKINGS	SHEET 54	E

NOTE: NO PASSING ZONE START AND END LOCATIONS SHOWN ON PLANARE APPROXIMATE. ACTUAL LOCATIONS TO BE DETERMINED BY THE BID ITEM "LOCATING NO PASSING ZONES".



LEGEND

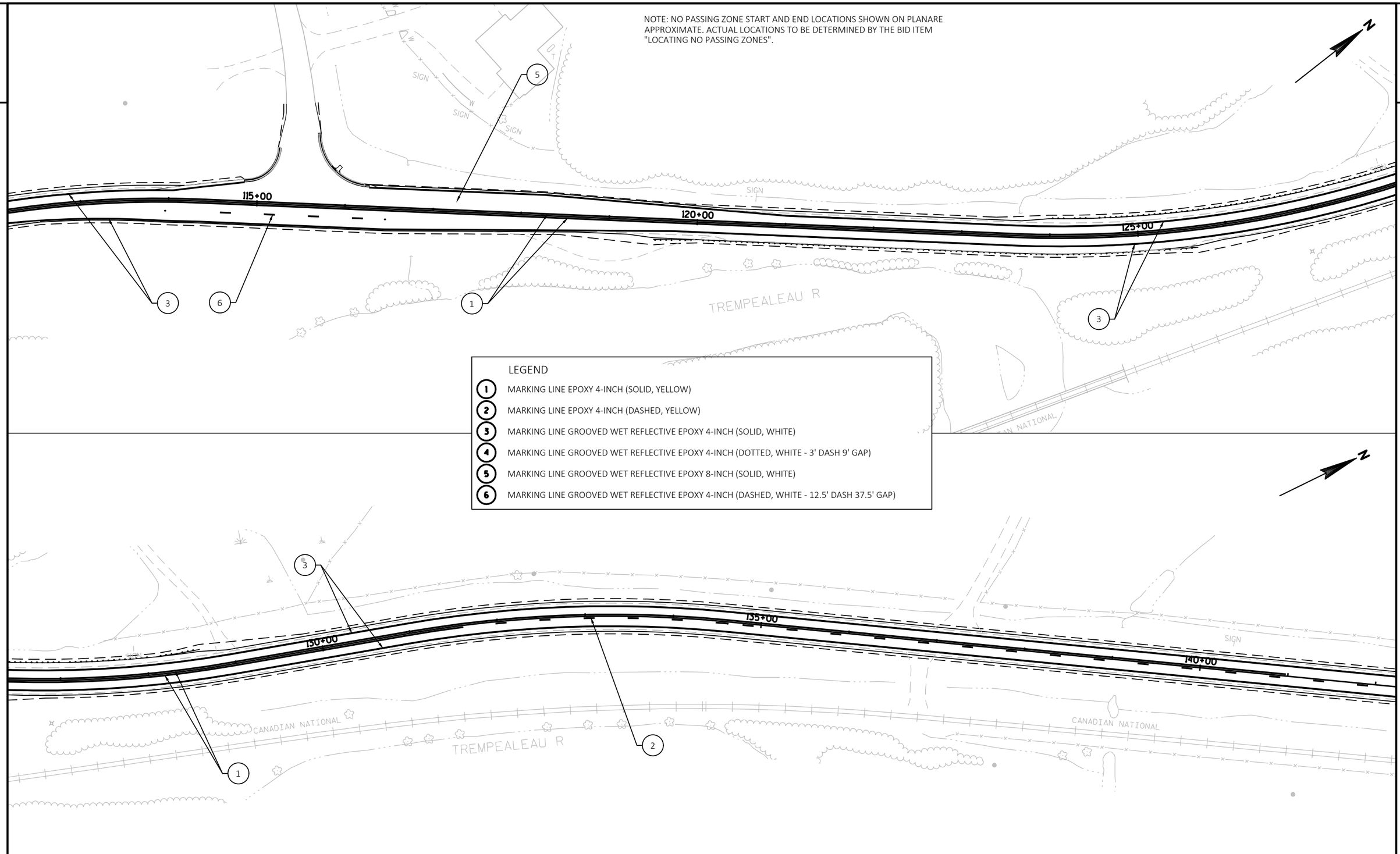
1. MARKING LINE EPOXY 4-INCH (SOLID, YELLOW)
2. MARKING LINE EPOXY 4-INCH (DASHED, YELLOW)
3. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (SOLID, WHITE)
4. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (DOTTED, WHITE - 3' DASH 9' GAP)
5. MARKING LINE GROOVED WET REFLECTIVE EPOXY 8-INCH (SOLID, WHITE)
6. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (DASHED, WHITE - 12.5' DASH 37.5' GAP)
7. MARKING RAILROAD CROSSING EPOXY



PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PAVEMENT MARKINGS	SHEET 55	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\020000-TYPICAL SECTIONS AND DETAILS\020800-PAVEMENT MARKINGS\020801_PM.DWG
LAYOUT NAME - 020503
PLOT DATE : 10/9/2017 1:32 PM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : ##########

NOTE: NO PASSING ZONE START AND END LOCATIONS SHOWN ON PLANARE APPROXIMATE. ACTUAL LOCATIONS TO BE DETERMINED BY THE BID ITEM "LOCATING NO PASSING ZONES".



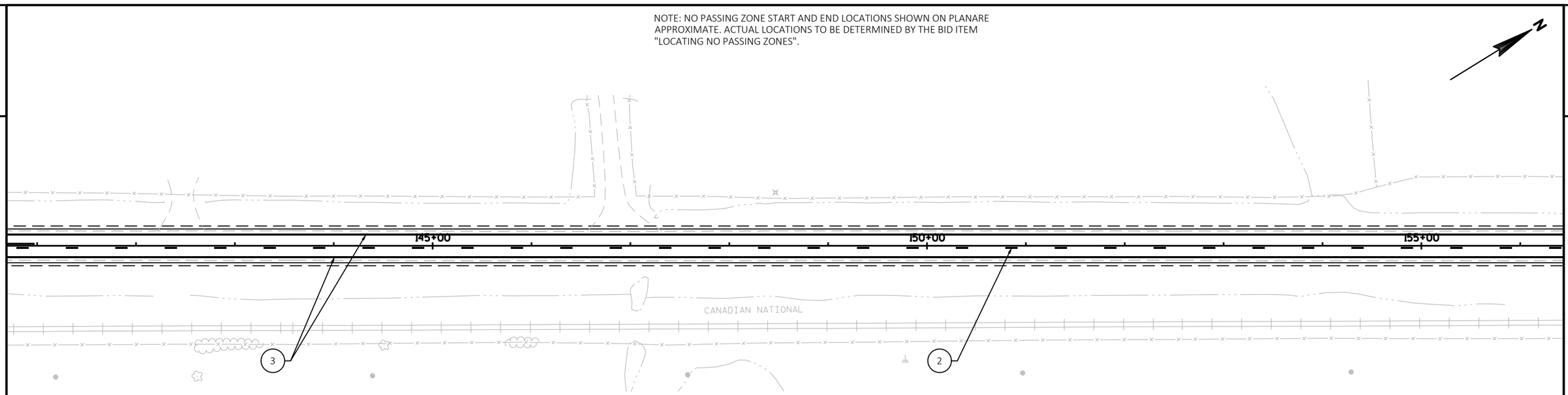
LEGEND

1. MARKING LINE EPOXY 4-INCH (SOLID, YELLOW)
2. MARKING LINE EPOXY 4-INCH (DASHED, YELLOW)
3. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (SOLID, WHITE)
4. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (DOTTED, WHITE - 3' DASH 9' GAP)
5. MARKING LINE GROOVED WET REFLECTIVE EPOXY 8-INCH (SOLID, WHITE)
6. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (DASHED, WHITE - 12.5' DASH 37.5' GAP)

PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PAVEMENT MARKINGS	SHEET 56	E

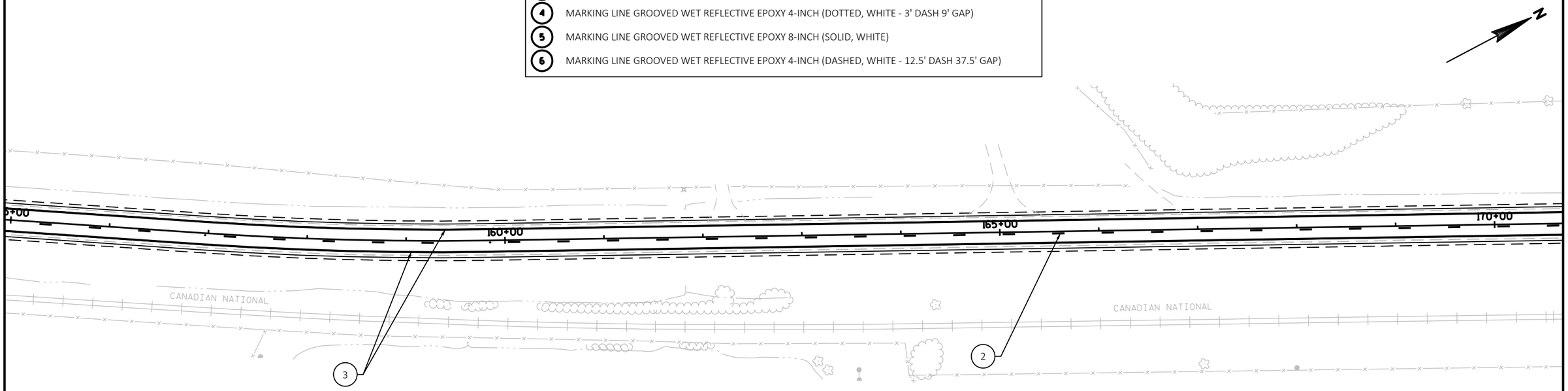
FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\020000-TYPICAL SECTIONS AND DETAILS\020800-PAVEMENT MARKINGS\020801_PM.DWG
LAYOUT NAME - 020504
PLOT DATE : 10/9/2017 1:32 PM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : ##########

NOTE: NO PASSING ZONE START AND END LOCATIONS SHOWN ON PLANARE APPROXIMATE. ACTUAL LOCATIONS TO BE DETERMINED BY THE BID ITEM "LOCATING NO PASSING ZONES".



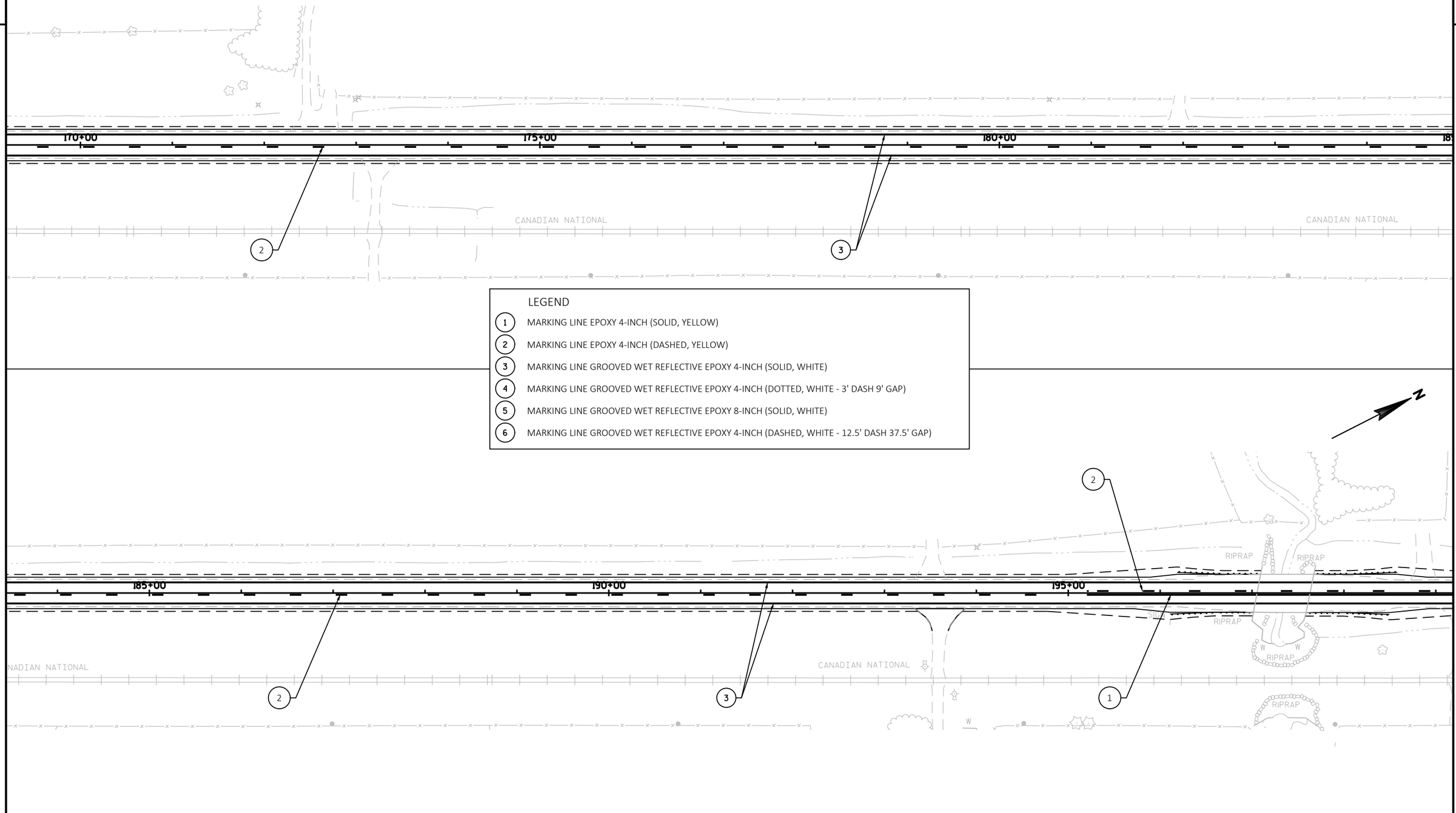
LEGEND

1. MARKING LINE EPOXY 4-INCH (SOLID, YELLOW)
2. MARKING LINE EPOXY 4-INCH (DASHED, YELLOW)
3. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (SOLID, WHITE)
4. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (DOTTED, WHITE - 3' DASH 9' GAP)
5. MARKING LINE GROOVED WET REFLECTIVE EPOXY 8-INCH (SOLID, WHITE)
6. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (DASHED, WHITE - 12.5' DASH 37.5' GAP)



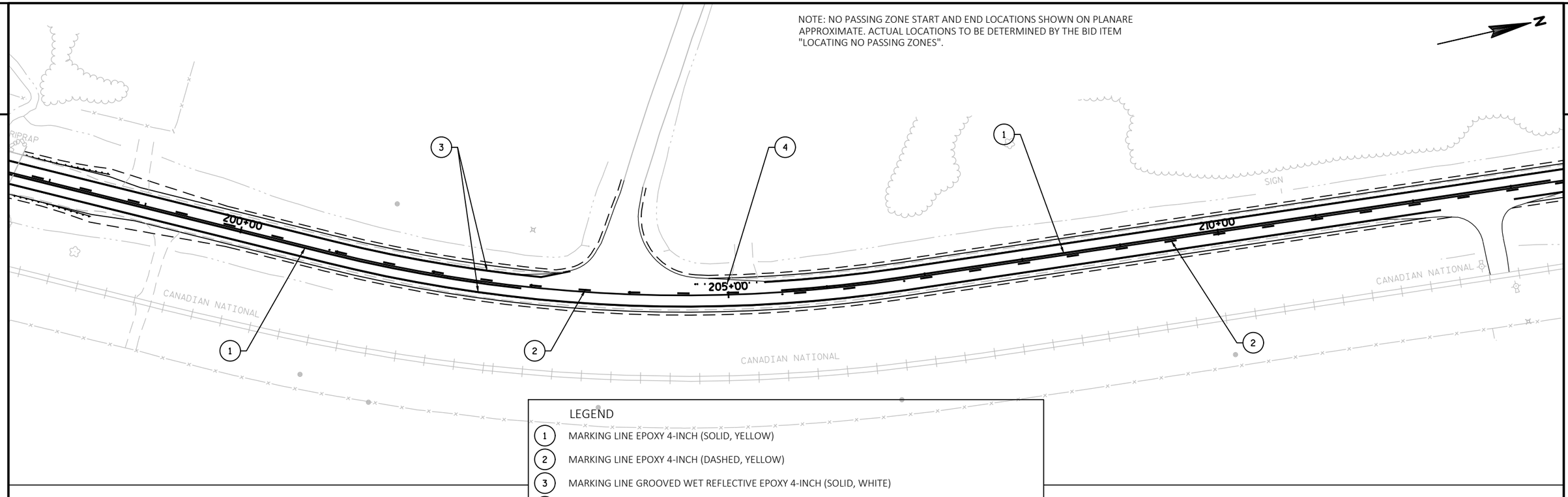
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PAVEMENT MARKINGS	SHEET 57	E

NOTE: NO PASSING ZONE START AND END LOCATIONS SHOWN ON PLANARE APPROXIMATE. ACTUAL LOCATIONS TO BE DETERMINED BY THE BID ITEM "LOCATING NO PASSING ZONES".



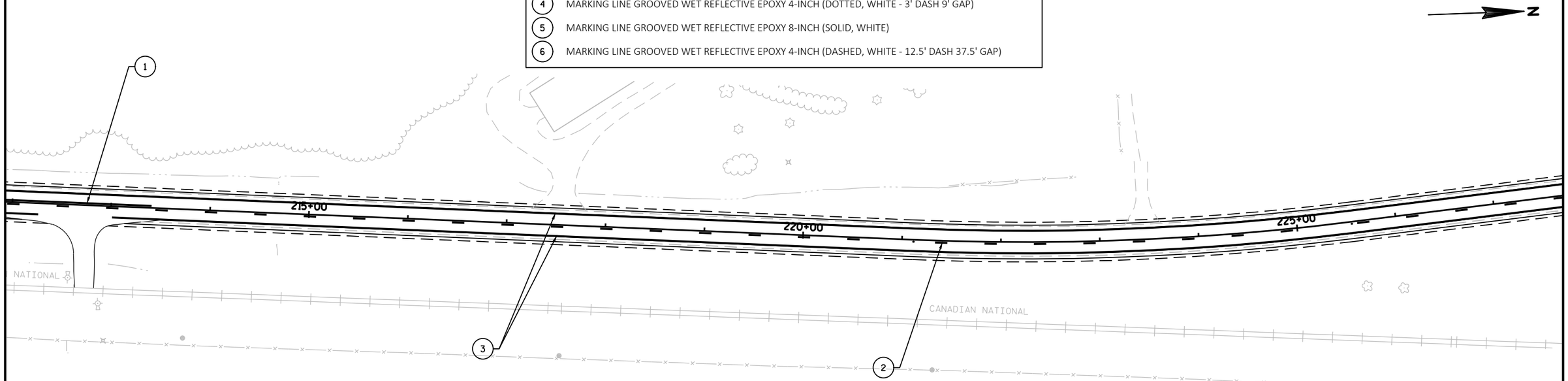
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PAVEMENT MARKINGS	SHEET 58	E

NOTE: NO PASSING ZONE START AND END LOCATIONS SHOWN ON PLANARE APPROXIMATE. ACTUAL LOCATIONS TO BE DETERMINED BY THE BID ITEM "LOCATING NO PASSING ZONES".



LEGEND

1. MARKING LINE EPOXY 4-INCH (SOLID, YELLOW)
2. MARKING LINE EPOXY 4-INCH (DASHED, YELLOW)
3. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (SOLID, WHITE)
4. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (DOTTED, WHITE - 3' DASH 9' GAP)
5. MARKING LINE GROOVED WET REFLECTIVE EPOXY 8-INCH (SOLID, WHITE)
6. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (DASHED, WHITE - 12.5' DASH 37.5' GAP)

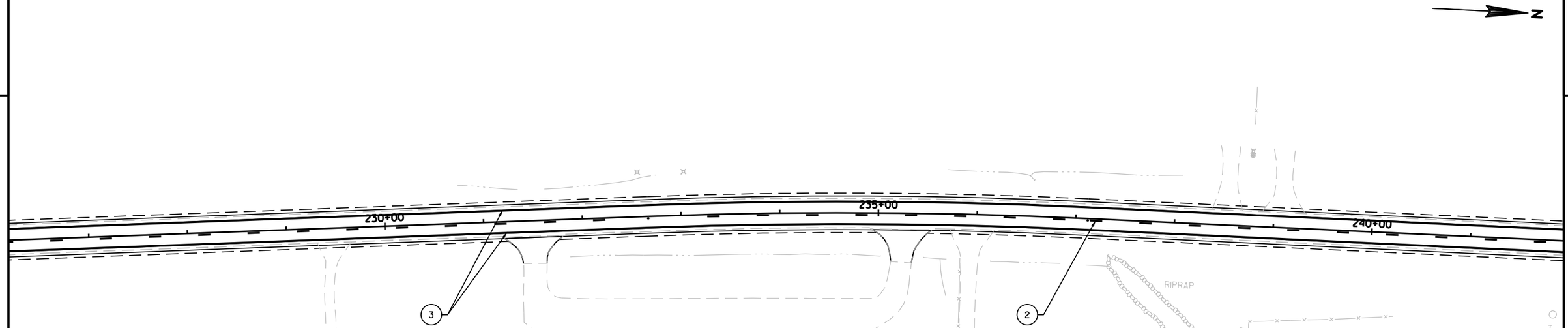


PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PAVEMENT MARKINGS	SHEET 59	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\020000-TYPICAL SECTIONS AND DETAILS\020800-PAVEMENT MARKINGS\020801_PM.DWG
LAYOUT NAME - 020507

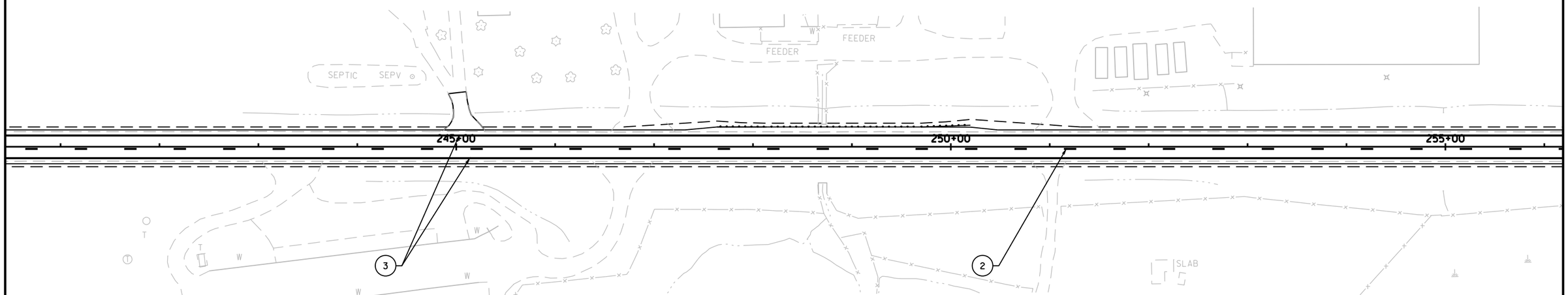
PLOT DATE : 10/9/2017 1:32 PM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : ##########

2



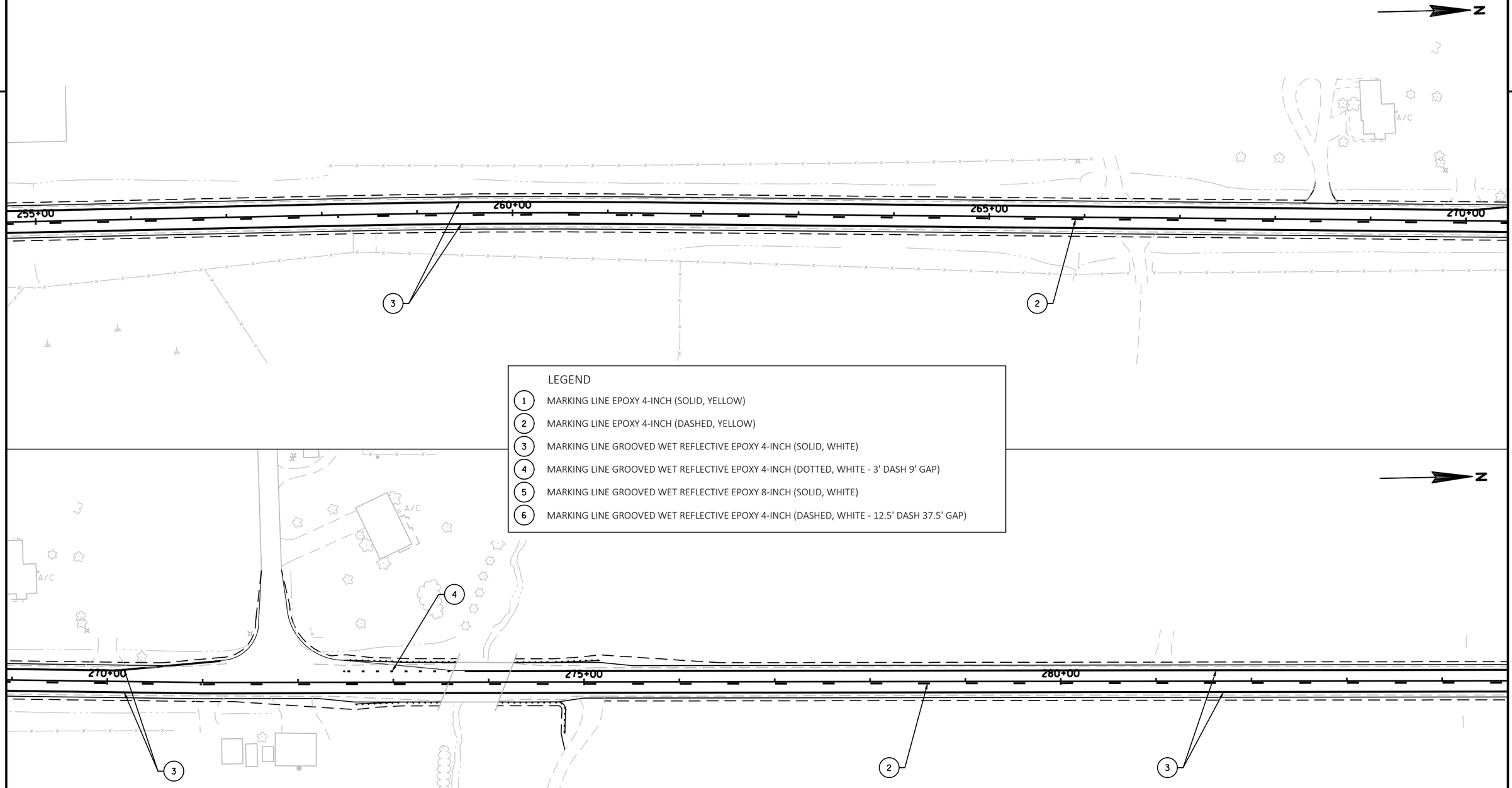
LEGEND

1. MARKING LINE EPOXY 4-INCH (SOLID, YELLOW)
2. MARKING LINE EPOXY 4-INCH (DASHED, YELLOW)
3. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (SOLID, WHITE)
4. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (DOTTED, WHITE - 3' DASH 9' GAP)
5. MARKING LINE GROOVED WET REFLECTIVE EPOXY 8-INCH (SOLID, WHITE)
6. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (DASHED, WHITE - 12.5' DASH 37.5' GAP)



PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PAVEMENT MARKINGS	SHEET 60	E

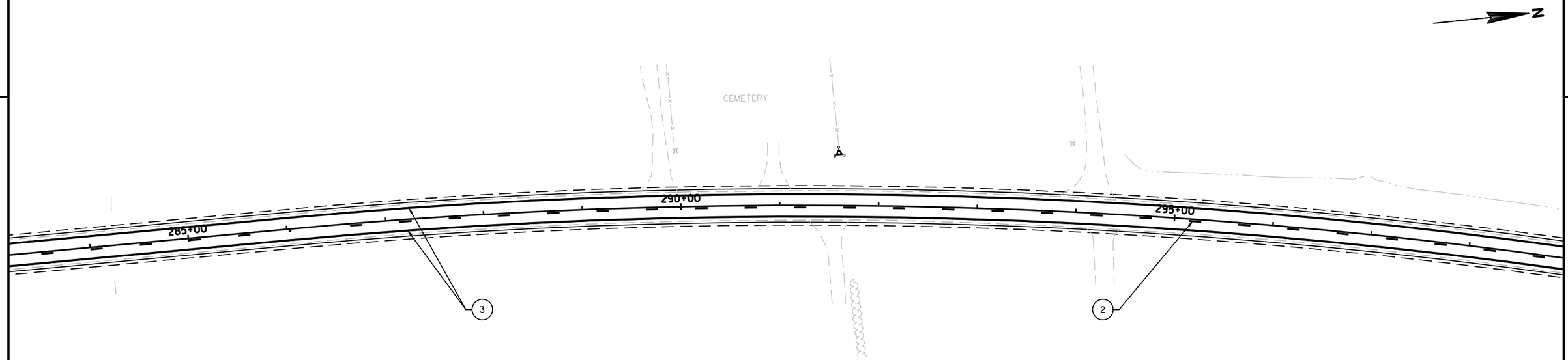
2



PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PAVEMENT MARKINGS	SHEET 61	E

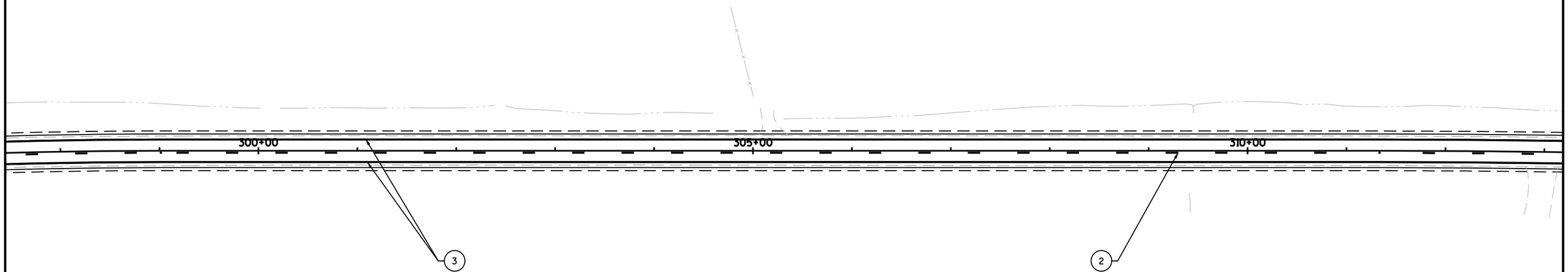
FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\020000-TYPICAL SECTIONS AND DETAILS\020800-PAVEMENT MARKINGS\020801_PM.DWG
LAYOUT NAME - 020509
PLOT DATE : 10/9/2017 1:32 PM
PLOT BY : PAYNE, MATTHEW A
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 44

2



LEGEND

1. MARKING LINE EPOXY 4-INCH (SOLID, YELLOW)
2. MARKING LINE EPOXY 4-INCH (DASHED, YELLOW)
3. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (SOLID, WHITE)
4. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (DOTTED, WHITE - 3' DASH 9' GAP)
5. MARKING LINE GROOVED WET REFLECTIVE EPOXY 8-INCH (SOLID, WHITE)
6. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (DASHED, WHITE - 12.5' DASH 37.5' GAP)

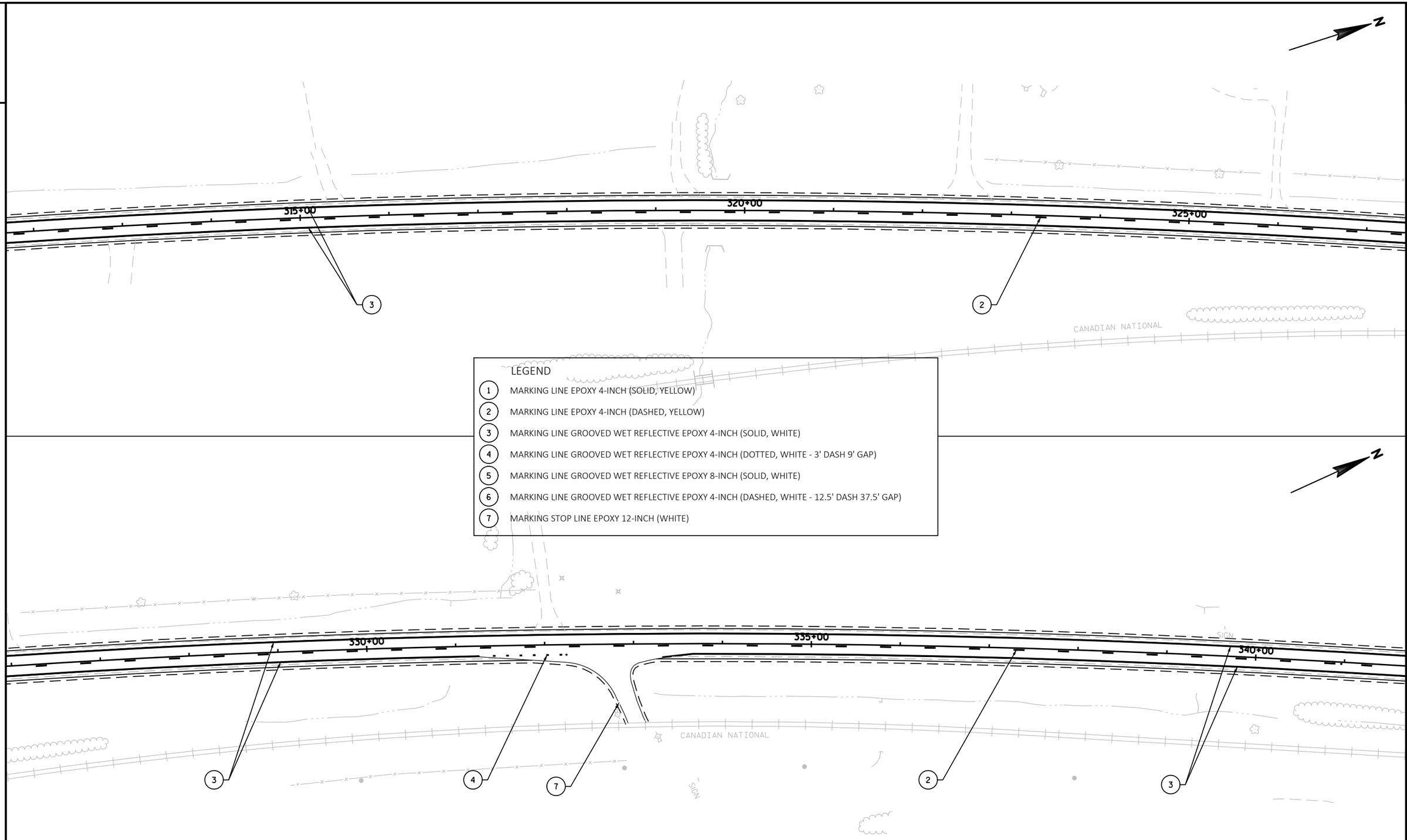


PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PAVEMENT MARKINGS	SHEET 62	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\020000-TYPICAL SECTIONS AND DETAILS\020800-PAVEMENT MARKINGS\020801_PM.DWG
LAYOUT NAME - 020510
PLOT DATE : 10/9/2017 1:32 PM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : ##########
WISDOT/CADDS SHEET 44

2

2

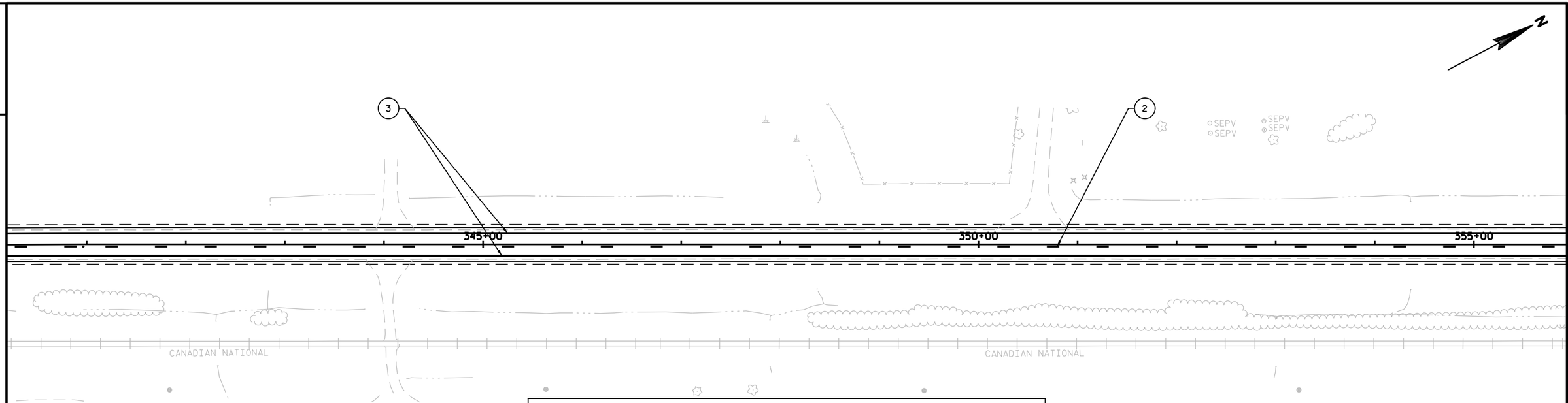


LEGEND

1. MARKING LINE EPOXY 4-INCH (SOLID, YELLOW)
2. MARKING LINE EPOXY 4-INCH (DASHED, YELLOW)
3. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (SOLID, WHITE)
4. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (DOTTED, WHITE - 3' DASH 9' GAP)
5. MARKING LINE GROOVED WET REFLECTIVE EPOXY 8-INCH (SOLID, WHITE)
6. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (DASHED, WHITE - 12.5' DASH 37.5' GAP)
7. MARKING STOP LINE EPOXY 12-INCH (WHITE)

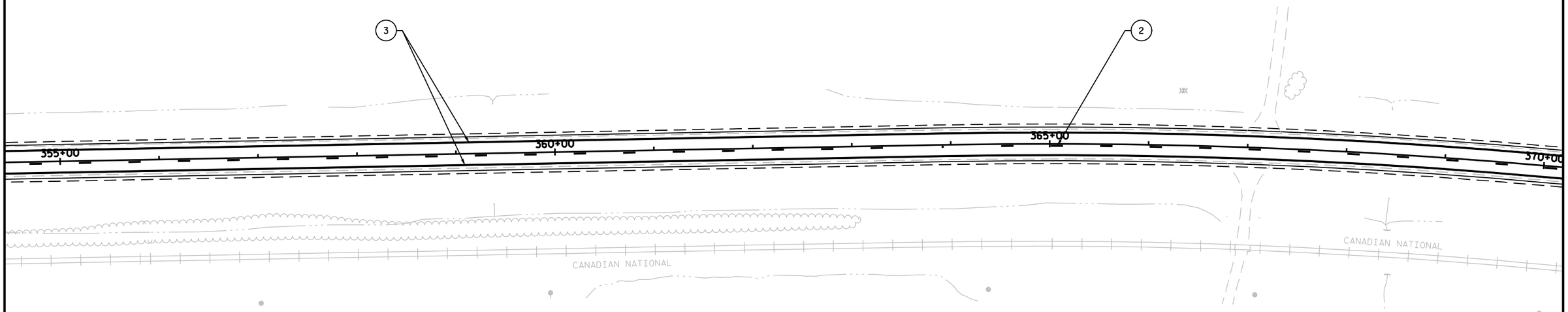
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PAVEMENT MARKINGS	SHEET 63	E

2



LEGEND

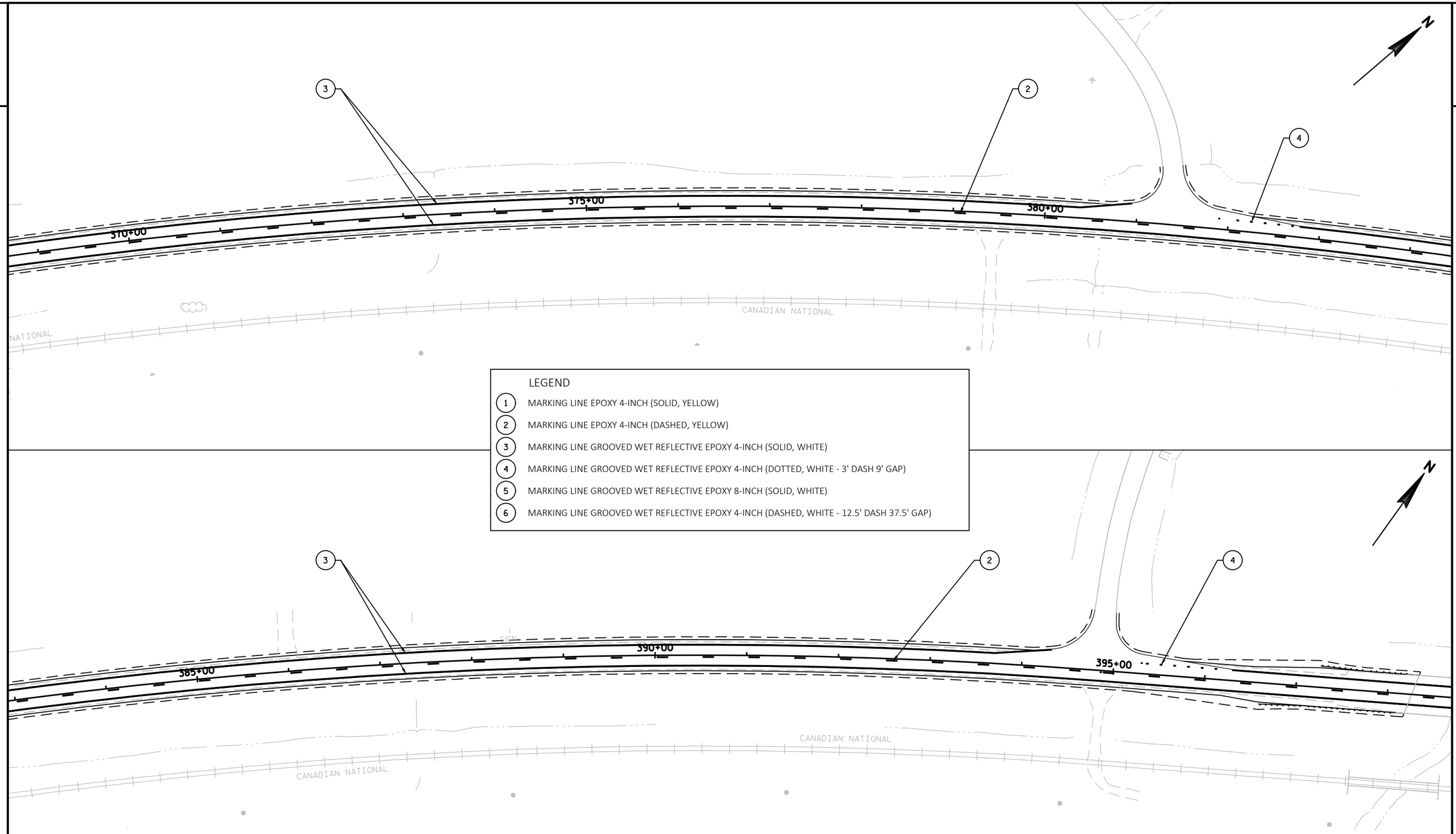
1. MARKING LINE EPOXY 4-INCH (SOLID, YELLOW)
2. MARKING LINE EPOXY 4-INCH (DASHED, YELLOW)
3. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (SOLID, WHITE)
4. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (DOTTED, WHITE - 3' DASH 9' GAP)
5. MARKING LINE GROOVED WET REFLECTIVE EPOXY 8-INCH (SOLID, WHITE)
6. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (DASHED, WHITE - 12.5' DASH 37.5' GAP)



PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PAVEMENT MARKINGS	SHEET 64	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\020000-TYPICAL SECTIONS AND DETAILS\020800-PAVEMENT MARKINGS\020801_PM.DWG
LAYOUT NAME - 020512
PLOT DATE : 10/9/2017 1:32 PM
PLOT BY : PAYNE, MATTHEW A
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 44

2

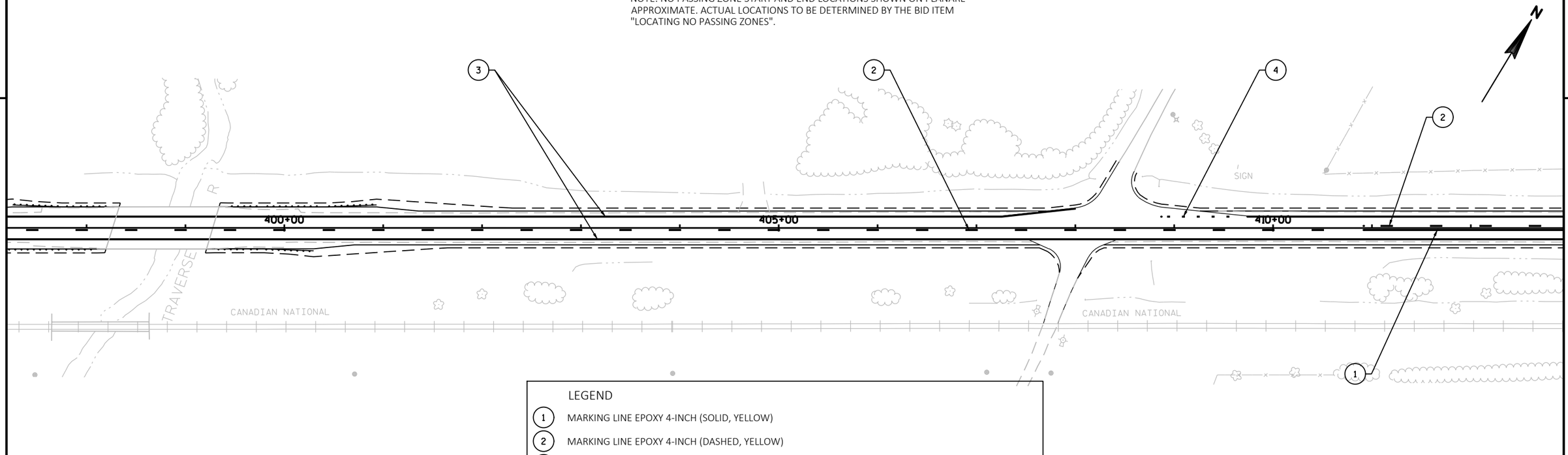


LEGEND

1. MARKING LINE EPOXY 4-INCH (SOLID, YELLOW)
2. MARKING LINE EPOXY 4-INCH (DASHED, YELLOW)
3. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (SOLID, WHITE)
4. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (DOTTED, WHITE - 3' DASH 9' GAP)
5. MARKING LINE GROOVED WET REFLECTIVE EPOXY 8-INCH (SOLID, WHITE)
6. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (DASHED, WHITE - 12.5' DASH 37.5' GAP)

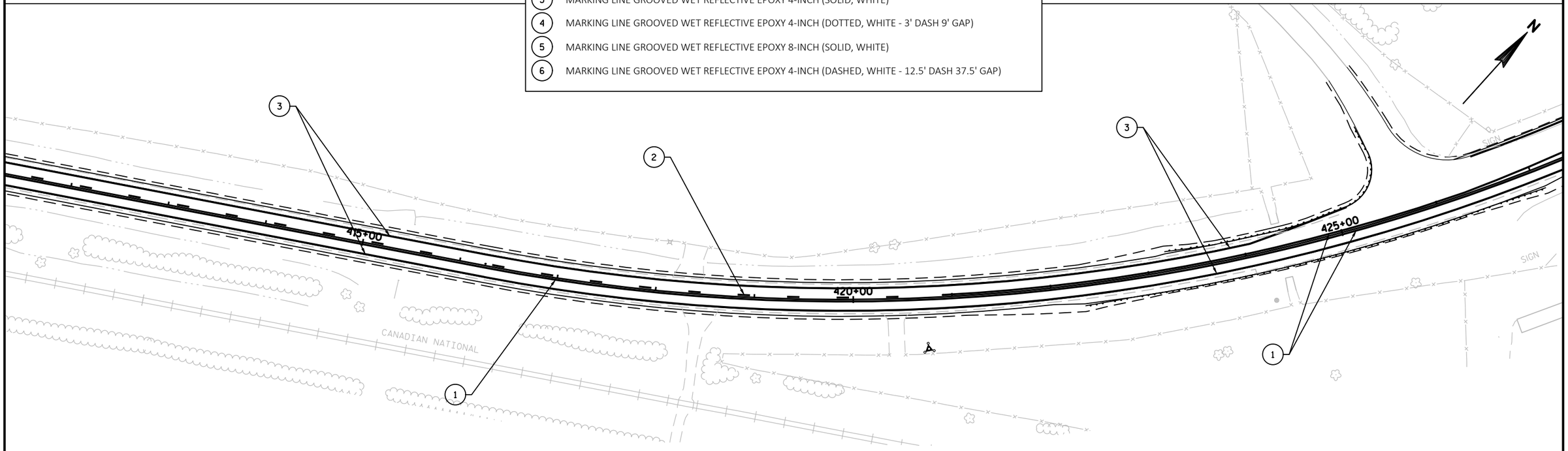
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PAVEMENT MARKINGS	SHEET 65	E

NOTE: NO PASSING ZONE START AND END LOCATIONS SHOWN ON PLANARE APPROXIMATE. ACTUAL LOCATIONS TO BE DETERMINED BY THE BID ITEM "LOCATING NO PASSING ZONES".



LEGEND

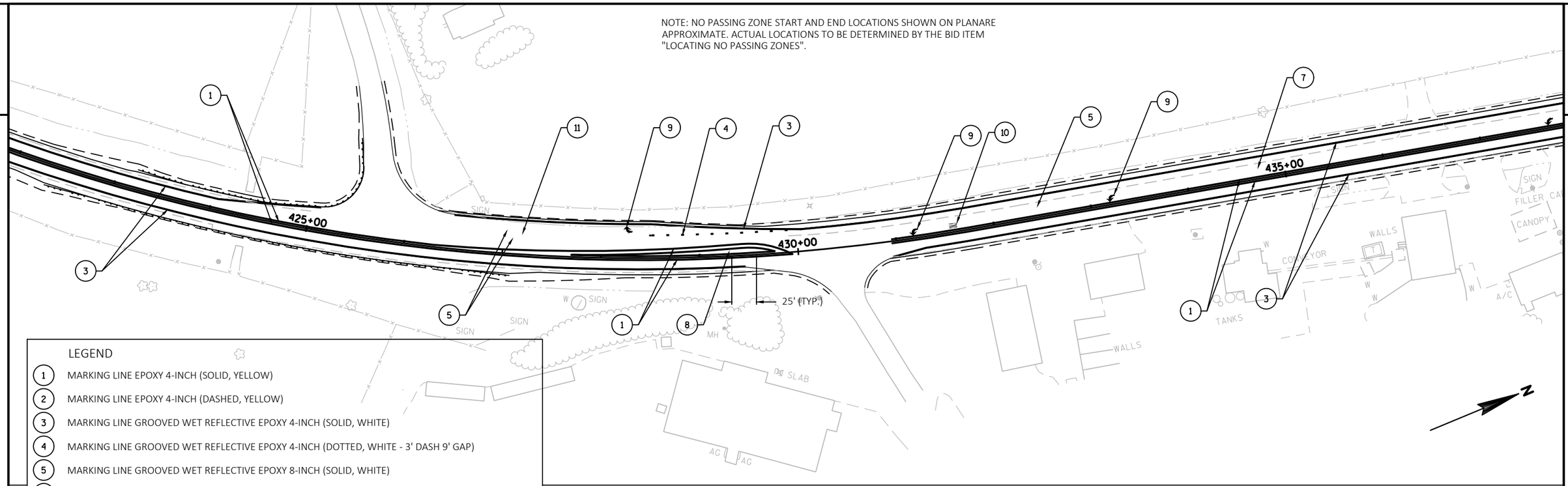
1. MARKING LINE EPOXY 4-INCH (SOLID, YELLOW)
2. MARKING LINE EPOXY 4-INCH (DASHED, YELLOW)
3. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (SOLID, WHITE)
4. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (DOTTED, WHITE - 3' DASH 9' GAP)
5. MARKING LINE GROOVED WET REFLECTIVE EPOXY 8-INCH (SOLID, WHITE)
6. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (DASHED, WHITE - 12.5' DASH 37.5' GAP)



PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PAVEMENT MARKINGS	SHEET 66	E

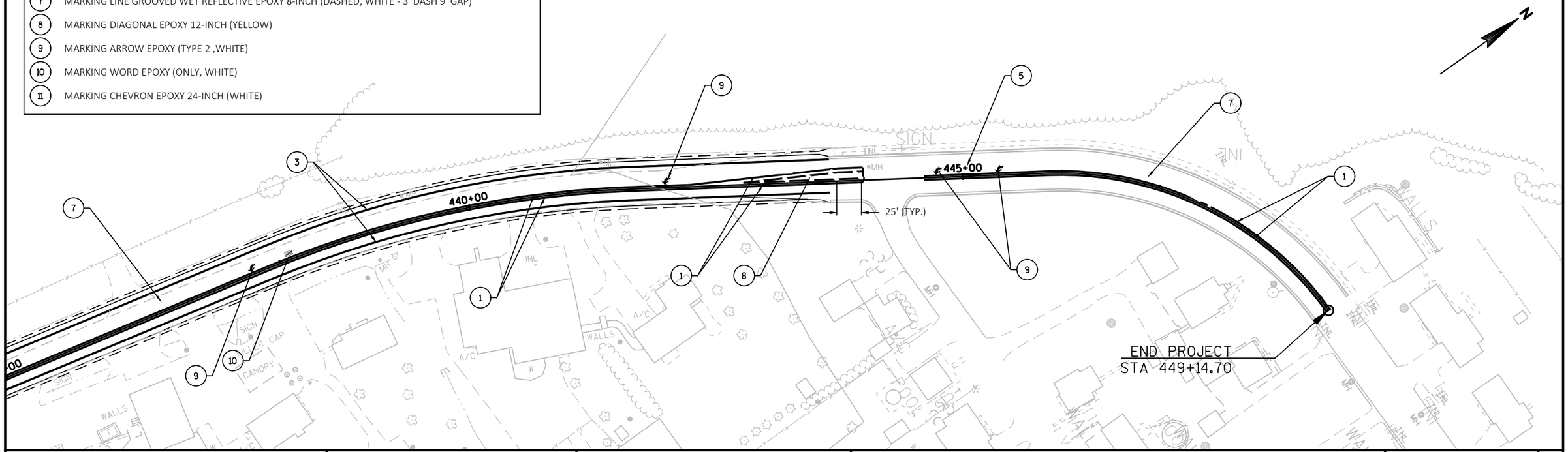
FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\020000-TYPICAL SECTIONS AND DETAILS\020800-PAVEMENT MARKINGS\020801_PM.DWG
LAYOUT NAME - 020514
PLOT DATE : 10/9/2017 1:32 PM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : ############

NOTE: NO PASSING ZONE START AND END LOCATIONS SHOWN ON PLANARE APPROXIMATE. ACTUAL LOCATIONS TO BE DETERMINED BY THE BID ITEM "LOCATING NO PASSING ZONES".



LEGEND

1. MARKING LINE EPOXY 4-INCH (SOLID, YELLOW)
2. MARKING LINE EPOXY 4-INCH (DASHED, YELLOW)
3. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (SOLID, WHITE)
4. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (DOTTED, WHITE - 3' DASH 9' GAP)
5. MARKING LINE GROOVED WET REFLECTIVE EPOXY 8-INCH (SOLID, WHITE)
6. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (DASHED, WHITE - 12.5' DASH 37.5' GAP)
7. MARKING LINE GROOVED WET REFLECTIVE EPOXY 8-INCH (DASHED, WHITE - 3' DASH 9' GAP)
8. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
9. MARKING ARROW EPOXY (TYPE 2 ,WHITE)
10. MARKING WORD EPOXY (ONLY, WHITE)
11. MARKING CHEVRON EPOXY 24-INCH (WHITE)



PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PAVEMENT MARKINGS	SHEET 67	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\020000-TYPICAL SECTIONS AND DETAILS\020800-PAVEMENT MARKINGS\020801_PM.DWG
LAYOUT NAME - 020515
PLOT DATE : 10/9/2017 1:33 PM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : ##########

Tangent	N	397164.534	E	815026.598	
	Distance	908.787'	Bearing	N 0° 11' 27.51 W"	
Arc					
	PC N	398073.316	E	815023.569	
	CC N	398092.413	E	820753.115	
	PI N	398356.428	E	815022.625	
		TAN	283.114'		
		DB	N 0° 11' 27.51 W'"		
		DA	N 5° 28' 0.12 E'"		
		LChord Distance	565.538'	Bearing	N 2° 38' 16.31 E"
		External Distance	6.990'		
		Middle Ordinate	6.982'		
		Radius	5729.578'		
		DEG	1° 0' 0'"		
		DELTA	5° 39' 27.63'"		
		LENGTH	565.768'		
	PT N	398638.254	E	815049.596	
Tangent	N	398638.254	E	815049.596	
	Distance	206.798'	Bearing	N 5° 28' 0.12 E"	
Arc					
	PC N	398844.111	E	815069.297	
	CC N	399402.377	E	809235.95	
	PI N	399116.505	E	815095.366	
		TAN	273.638'		
		DB	N 5° 28' 0.12 E'"		
		DA	N 0° 7' 10.68 E'"		
		LChord Distance	546.680'	Bearing	N 2° 47' 35.4 E"
		External Distance	6.385'		
		Middle Ordinate	6.378'		
		Radius	5860.000'		
		DEG	0° 58' 39.88'"		
		DELTA	5° 20' 49.44'"		
		LENGTH	546.878'		
	PT N	399390.142	E	815095.938	
Tangent	N	399390.142	E	815095.938	
	Distance	2407.142'	Bearing	N 0° 7' 10.68 E"	
Arc					
	PC N	401797.278	E	815100.964	
	CC N	401801.368	E	813142.514	
	PI N	402421.76	E	815102.268	
		TAN	624.483'		
		DB	N 0° 7' 10.68 E'"		

		DA	N 35° 15' 6.26 W'"		
		LChord Distance	1189.937'	Bearing	N 17° 33' 57.79 W"
		External Distance	97.153'		
		Middle Ordinate	92.562'		
		Radius	1958.454'		
		DEG	2° 55' 32.02'"		
		DELTA	35° 22' 16.95'"		
		LENGTH	1209.045'		
	PT N	402931.728	E	814741.835	
Tangent	N	402931.728	E	814741.835	
	Distance	1566.707'	Bearing	N 35° 15' 6.26 W"	
Arc					
	PC N	404211.139	E	813837.578	
	CC N	404872.527	E	814773.361	
	PI N	404941.815	E	813321.154	
		TAN	894.752'		
		DB	N 35° 15' 6.26 W'"		
		DA	N 40° 42' 53.98 E'"		
		LChord Distance	1410.468'	Bearing	N 2° 43' 53.86 E"
		External Distance	307.943'		
		Middle Ordinate	242.717'		
		Radius	1145.916'		
		DEG	4° 59' 59.99'"		
		DELTA	75° 58' 0.24'"		
		LENGTH	1519.335'		
	PT N	405620.004	E	813904.798	
Tangent	N	405620.004	E	813904.798	
	Distance	921.051'	Bearing	N 40° 42' 53.98 E"	
Arc					
	PC N	406318.127	E	814505.597	
	CC N	407143.619	E	813546.382	
	PI N	406525.674	E	814684.21	
		TAN	273.822'		
		DB	N 40° 42' 53.98 E'"		
		DA	N 16° 17' 49.32 E'"		
		LChord Distance	535.257'	Bearing	N 28° 30' 21.65 E"
		External Distance	29.285'		
		Middle Ordinate	28.622'		
		Radius	1265.515'		
		DEG	4° 31' 38.88'"		
		DELTA	24° 25' 4.66'"		
		LENGTH	539.329'		
	PT N	406788.494	E	814761.049	

Tangent	N	406788.494	E	814761.049	
	Distance	199.852'	Bearing	N 16° 17' 49.32 E"	
Arc					
	PC N	406980.316	E	814817.131	
	CC N	406598.678	E	816122.482	
	PI N	407156.815	E	814868.733	
		TAN	183.888'		
		DB	N 16° 17' 49.32 E'"		
		DA	N 31° 41' 51.97 E'"		
		LChord Distance	364.459'	Bearing	N 23° 59' 50.64 E"
		External Distance	12.376'		
		Middle Ordinate	12.264'		
		Radius	1359.997'		
		DEG	4° 12' 46.57'"		
		DELTA	15° 24' 2.65'"		
		LENGTH	365.558'		
	PT N	407313.272	E	814965.354	
Tangent	N	407313.272	E	814965.354	
	Distance	2235.037'	Bearing	N 31° 41' 51.97 E"	
Arc					
	PC N	409214.912	E	816139.729	
	CC N	411035.225	E	813192.135	
	PI N	409337.542	E	816215.46	
		TAN	144.129'		
		DB	N 31° 41' 51.97 E'"		
		DA	N 26° 55' 59.23 E'"		
		LChord Distance	288.010'	Bearing	N 29° 18' 55.6 E"
		External Distance	2.997'		
		Middle Ordinate	2.994'		
		Radius	3464.368'		
		DEG	1° 39' 13.89'"		
		DELTA	4° 45' 52.73'"		
		LENGTH	288.093'		
	PT N	409466.039	E	816280.743	
Tangent	N	409466.039	E	816280.743	
	Distance	4106.976'	Bearing	N 26° 55' 59.23 E"	
Arc					
	PC N	413127.555	E	818140.999	
	CC N	413805.699	E	816806.217	
	PI N	413392.37	E	818275.54	
		TAN	297.032'		

2

		DB	N 26° 55' 59.23 E'"		
		DA	N 4° 29' 24.33 E'"		
		LChord Distance	582.707'	Bearing	N 15° 42' 41.78 E"
		External Distance	29.181'		
		Middle Ordinate	28.623'		
		Radius	1497.171'		
		DEG	3° 49' 36.97'"		
		DELTA	22° 26' 34.9'"		
		LENGTH	586.449'		
	PT N	413688.49	E	818298.793	
Tangent	N	413688.49	E	818298.793	
	Distance	1433.318'	Bearing	N 4° 29' 24.33 E"	
Arc					
	PC N	415117.41	E	818411.003	
	CC N	415327.418	E	815736.679	
	PI N	415339.069	E	818428.409	
		TAN	222.342'		
		DB	N 4° 29' 24.33 E'"		
		DA	N 4° 59' 9.93 W'"		
		LChord Distance	443.164'	Bearing	N 0° 14' 52.8 W"
		External Distance	9.199'		
		Middle Ordinate	9.167'		
		Radius	2682.556'		
		DEG	2° 8' 9.11'"		
		DELTA	9° 28' 34.26'"		
		LENGTH	443.670'		
	PT N	415560.569	E	818409.085	
Tangent	N	415560.569	E	818409.085	
	Distance	711.366'	Bearing	N 4° 59' 9.93 W"	
Arc					
	PC N	416269.243	E	818347.257	
	CC N	416729.889	E	823627.227	
	PI N	416491.196	E	818327.893	
		TAN	222.796'		
		DB	N 4° 59' 9.93 W'"		
		DA	N 0° 10' 18.72 W'"		
		LChord Distance	445.199'	Bearing	N 2° 34' 44.33 W"
		External Distance	4.681'		
		Middle Ordinate	4.677'		
		Radius	5300.026'		
		DEG	1° 4' 51.77'"		
		DELTA	4° 48' 51.21'"		
		LENGTH	445.330'		

	PT N	416713.991	E	818327.225	
Tangent	N	416713.991	E	818327.225	
	Distance	2105.113'	Bearing	N 0° 10' 18.72 W"	
Arc					
	PC N	418819.095	E	818320.91	
	CC N	418849.158	E	828343.091	
	PI N	418972.963	E	818320.449	
		TAN	153.869'		
		DB	N 0° 10' 18.72 W'"		
		DA	N 1° 35' 14.27 E'"		
		LChord Distance	307.702'	Bearing	N 0° 42' 27.77 E"
		External Distance	1.181'		
		Middle Ordinate	1.181'		
		Radius	10022.225'		
		DEG	0° 34' 18.07'"		
		DELTA	1° 45' 32.99'"		
		LENGTH	307.714'		
	PT N	419126.774	E	818324.711	
Tangent	N	419126.774	E	818324.711	
	Distance	973.218'	Bearing	N 1° 35' 14.27 E"	
Tangent	N	420099.618	E	818351.669	
	Distance	1504.983'	Bearing	N 0° 45' 37.62 E"	
Arc					
	PC N	421604.469	E	818371.643	
	CC N	421529.906	E	823989.192	
	PI N	422256.507	E	818380.298	
		TAN	652.095'		
		DB	N 0° 45' 37.62 E'"		
		DA	N 14° 0' 7.29 E'"		
		LChord Distance	1295.493'	Bearing	N 7° 22' 52.45 E"
		External Distance	37.718'		
		Middle Ordinate	37.467'		
		Radius	5618.044'		
		DEG	1° 1' 11.47'"		
		DELTA	13° 14' 29.67'"		
		LENGTH	1298.381'		
	PT N	422889.227	E	818538.076	
Tangent	N	422889.227	E	818538.076	
	Distance	1231.968'	Bearing	N 14° 0' 7.29 E"	
Arc					

	PC N	424084.589	E	818836.158	
	CC N	421114.217	E	830747.877	
	PI N	425529.097	E	819196.369	
		TAN	1488.743'		
		DB	N 14° 0' 7.29 E'"		
		DA	N 27° 49' 50.76 E'"		
		LChord Distance	2955.830'	Bearing	N 20° 54' 59.02 E"
		External Distance	89.939'		
		Middle Ordinate	89.285'		
		Radius	12276.488'		
		DEG	0° 28' 0.16'"		
		DELTA	13° 49' 43.47'"		
		LENGTH	2963.017'		
	PT N	426845.637	E	819891.405	
Tangent	N	426845.637	E	819891.405	
	Distance	2295.421'	Bearing	N 27° 49' 50.76 E"	
Arc					
	PC N	428875.548	E	820963.049	
	CC N	426205.285	E	826021.068	
	PI N	430278.292	E	821703.595	
		TAN	1586.222'		
		DB	N 27° 49' 50.76 E'"		
		DA	N 58° 49' 53.12 E'"		
		LChord Distance	3057.058'	Bearing	N 43° 19' 51.94 E"
		External Distance	215.880'		
		Middle Ordinate	208.028'		
		Radius	5719.603'		
		DEG	1° 0' 6.28'"		
		DELTA	31° 0' 2.36'"		
		LENGTH	3094.669'		
	PT N	431099.253	E	823060.843	
Tangent	N	431099.253	E	823060.843	
	Distance	2139.374'	Bearing	N 58° 49' 53.12 E"	
Arc					
	PC N	432206.503	E	824891.394	
	CC N	433847.292	E	823898.926	
	PI N	432629.796	E	825591.199	
		TAN	817.865'		
		DB	N 58° 49' 53.12 E'"		
		DA	N 12° 38' 3.96 E'"		
		LChord Distance	1504.597'	Bearing	N 35° 43' 58.54 E"
		External Distance	167.129'		
		Middle Ordinate	153.730'		

2

		Radius	1917.598'		
		DEG	2° 59' 16.42'"		
		DELTA	46° 11' 49.16'"		
		LENGTH	1546.139'		
	PT N	433427.857	E	825770.091	
Tangent	N	433427.857	E	825770.091	
	Distance	615.094'	Bearing	N 12° 38' 3.96 E"	
Arc					
	PC N	434028.057	E	825904.63	
	CC N	433798.46	E	826928.895	
	PI N	434212.776	E	825946.036	
		TAN	189.303'		
		DB	N 12° 38' 3.96 E'"		
		DA	N 33° 4' 49.67 E'"		
		LChord Distance	372.596'	Bearing	N 22° 51' 26.82 E"
		External Distance	16.933'		
		Middle Ordinate	16.664'		
		Radius	1049.683'		
		DEG	5° 27' 30.21'"		
		DELTA	20° 26' 45.71'"		
		LENGTH	374.580'		
	PT N	434371.394	E	826049.361	
Tangent	N	434371.394	E	826049.361	
	Distance	424.506'	Bearing	N 33° 4' 49.67 E"	
Arc					
	PC N	434727.09	E	826281.063	
	CC N	434545.333	E	826560.086	
	PI N	434877.199	E	826378.846	
		TAN	179.149'		
		DB	N 33° 4' 49.67 E'"		
		DA	N 89° 38' 22.56 E'"		
		LChord Distance	315.534'	Bearing	N 61° 21' 36.12 E"
		External Distance	45.131'		
		Middle Ordinate	39.745'		
		Radius	333.000'		
		DEG	17° 12' 21.38'"		
		DELTA	56° 33' 32.89'"		
		LENGTH	328.719'		
	PT N	434878.326	E	826557.991	
End	N	434878.326	E	826557.991	

Alignment Length = 42409.38'

CURVE 2

STATION	LOCATION	LEFT		RIGHT	
		SHOULDER	LANE	LANE	SHOULDER
40+85.34'	End Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
40+85.34'	End Normal Crown	-4.00%	-2.00%	-2.00%	-2.00%
41+38.67'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
41+92.00'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
42+10.67'	Begin Full Super	-4.00%	-2.70%	2.70%	2.70%
47+09.55'	End Full Super	-4.00%	-2.70%	2.70%	2.70%
47+28.22'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
47+81.55'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
48+34.89'	Begin Normal Crown	-4.00%	-2.00%	-2.00%	-2.00%
48+34.89'	Begin Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%

CURVE 3

STATION	LOCATION	LEFT		RIGHT	
		SHOULDER	LANE	LANE	SHOULDER
69+89.23'	End Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
69+89.23'	End Normal Crown	-4.00%	-2.00%	-2.00%	-2.00%
70+42.69'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
70+96.14'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
71+49.60'	Low Shoulder Match	-4.00%	-4.00%	4.00%	4.00%
71+89.69'	Begin Full Super	-5.50%	-5.50%	5.50%	5.50%
83+00.74'	End Full Super	-5.50%	-5.50%	5.50%	5.50%
83+40.83'	Low Shoulder Match	-4.00%	-4.00%	4.00%	4.00%
83+94.29'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
84+47.74'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
85+01.20'	Begin Normal Crown	-4.00%	-2.00%	-2.00%	-2.00%
85+01.20'	Begin Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%

CURVE 4

STATION	LOCATION	LEFT		RIGHT	
		SHOULDER	LANE	LANE	SHOULDER
97+56.44'	End Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
97+56.44'	End Normal Crown	-2.00%	-2.00%	-2.00%	-4.00%
98+09.77'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
98+63.10'	Reverse Crown	2.00%	2.00%	-2.00%	-4.00%
99+16.44'	Low Shoulder Match	4.00%	4.00%	-4.00%	-4.00%
99+69.77'	Begin Full Super	6.00%	6.00%	-6.00%	-6.00%
113+82.45'	End Full Super	6.00%	6.00%	-6.00%	-6.00%
114+08.02'	Low Shoulder Match-Left	4.00%	4.00%	-5.04%	-5.04%
114+33.59'	Reverse Crown-Left	2.00%	2.00%	-4.08%	-4.08%
114+35.78'	Low Shoulder Match	0.00%	0.00%	-4.00%	-4.00%
114+59.16'	Level Crown-Left	0.00%	0.00%	-3.12%	-3.94%
114+84.72'	Normal Crown-Left	-2.00%	-2.00%	-2.16%	-3.99%
114+84.72'	Normal Shoulder-Left	-4.00%	-2.00%	-2.16%	-3.99%
114+89.12'	Reverse Crown	-4.00%	-2.00%	-2.00%	-4.00%
115+42.45'	Level Crown	-4.00%	-2.00%	-2.00%	-4.00%
115+95.78'	Begin Normal Crown	-4.00%	-2.00%	-2.00%	-4.00%
115+95.78'	Begin Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%

CURVE 5

STATION	LOCATION	LEFT		RIGHT	
		SHOULDER	LANE	LANE	SHOULDER
121+96.82'	End Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
121+96.82'	End Normal Crown	-4.00%	-2.00%	-2.00%	-2.00%
122+50.16'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
123+03.49'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
123+56.82'	Low Shoulder Match	-4.00%	-4.00%	4.00%	4.00%
124+10.16'	Begin Full Super	-6.00%	-6.00%	6.00%	6.00%
128+42.83'	End Full Super	-6.00%	-6.00%	6.00%	6.00%

CURVE 6

STATION	LOCATION	LEFT		RIGHT	
		SHOULDER	LANE	LANE	SHOULDER
131+49.34'	Begin Full Super	6.00%	6.00%	-6.00%	-6.00%
134+08.24'	End Full Super	6.00%	6.00%	-6.00%	-6.00%
134+61.57'	Low Shoulder Match	4.00%	4.00%	-4.00%	-4.00%
135+14.91'	Reverse Crown	2.00%	2.00%	-2.00%	-4.00%
135+68.24'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
136+21.57'	Begin Normal Crown	-2.00%	-2.00%	-2.00%	-4.00%
136+21.57'	Begin Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%

CURVE 7

STATION	LOCATION	LEFT		RIGHT	
		SHOULDER	LANE	LANE	SHOULDER
155+71.77'	End Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
155+71.77'	End Normal Crown	-4.00%	-2.00%	-2.00%	-2.00%
156+25.27'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
156+78.77'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
157+32.27'	Begin Full Super	-4.00%	-4.00%	4.00%	4.00%
159+49.04'	End Full Super	-4.00%	-4.00%	4.00%	4.00%
160+02.54'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
160+56.04'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
161+09.54'	Begin Normal Crown	-4.00%	-2.00%	-2.00%	-2.00%
161+09.54'	Begin Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%

CURVE 8

STATION	LOCATION	LEFT		RIGHT	
		SHOULDER	LANE	LANE	SHOULDER
199+31.67'	End Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
199+31.67'	End Normal Crown	-4.00%	-2.00%	-2.00%	-2.00%
199+85.00'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
200+38.34'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
200+91.67'	Low Shoulder Match	-4.00%	-4.00%	4.00%	4.00%
201+45.00'	Begin Full Super	-6.00%	-6.00%	6.00%	6.00%
206+24.80'	End Full Super	-6.00%	-6.00%	6.00%	6.00%
206+78.13'	Low Shoulder Match	-4.00%	-4.00%	4.00%	4.00%
207+31.46'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
207+84.80'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
208+38.13'	Begin Normal Crown	-4.00%	-2.00%	-2.00%	-2.00%
208+38.13'	Begin Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%

CURVE 9

STATION	LOCATION	LEFT		RIGHT	
		SHOULDER	LANE	LANE	SHOULDER
219+74.91'	End Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
219+74.91'	End Normal Crown	-4.00%	-2.00%	-2.00%	-2.00%
220+28.10'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
220+81.30'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
221+34.49'	Low Shoulder Match	-4.00%	-4.00%	4.00%	4.00%
221+53.10'	Begin Full Super	-4.70%	-4.70%	4.70%	4.70%
225+13.45'	End Full Super	-4.70%	-4.70%	4.70%	4.70%
225+32.07'	Low Shoulder Match	-4.00%	-4.00%	4.00%	4.00%
225+85.26'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
226+38.45'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
226+91.64'	Begin Normal Crown	-4.00%	-2.00%	-2.00%	-2.00%
226+91.64'	Begin Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%

CURVE 10

STATION	LOCATION	LEFT		RIGHT	
		SHOULDER	LANE	LANE	SHOULDER
231+62.04'	End Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
231+62.04'	End Normal Crown	-2.00%	-2.00%	-2.00%	-4.00%
232+15.14'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
232+68.24'	Reverse Crown	2.00%	2.00%	-2.00%	-4.00%
232+92.14'	Begin Full Super	2.90%	2.90%	-2.90%	-4.00%
236+86.14'	End Full Super	2.90%	2.90%	-2.90%	-4.00%
237+10.04'	Reverse Crown	2.00%	2.00%	-2.00%	-4.00%
237+63.14'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
238+16.25'	Begin Normal Crown	-2.00%	-2.00%	-2.00%	-4.00%
238+16.25'	Begin Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%

CURVE 12

STATION	LOCATION	LEFT		RIGHT	
		SHOULDER	LANE	LANE	SHOULDER
284+99.26'	End Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
284+99.26'	End Normal Crown	-2.00%	-2.00%	-2.00%	-4.00%
285+52.83'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
286+06.40'	Reverse Crown	2.00%	2.00%	-2.00%	-4.00%
286+27.83'	Begin Full Super	2.80%	2.80%	-2.80%	-4.00%
298+76.22'	End Full Super	2.80%	2.80%	-2.80%	-4.00%
298+97.65'	Reverse Crown	2.00%	2.00%	-2.00%	-4.00%
299+51.22'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
300+04.79'	Begin Normal Crown	-2.00%	-2.00%	-2.00%	-4.00%
300+04.79'	Begin Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%

2

CURVE 14

STATION	LOCATION	LEFT		RIGHT	
		SHOULDER	LANE	LANE	SHOULDER
362+90.29'	End Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
362+90.29'	End Normal Crown	-2.00%	-2.00%	-2.00%	-4.00%
363+43.62'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
363+96.95'	Reverse Crown	2.00%	2.00%	-2.00%	-4.00%
364+15.62'	Begin Full Super	2.70%	2.70%	-2.70%	-4.00%
394+62.29'	End Full Super	2.70%	2.70%	-2.70%	-4.00%
394+80.96'	Reverse Crown	2.00%	2.00%	-2.00%	-4.00%
395+34.29'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
395+87.63'	Begin Normal Crown	-2.00%	-2.00%	-2.00%	-4.00%
395+87.63'	Begin Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%

CURVE 15

STATION	LOCATION	LEFT		RIGHT	
		SHOULDER	LANE	LANE	SHOULDER
414+74.21'	End Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
414+74.21'	End Normal Crown	-4.00%	-2.00%	-2.00%	-2.00%
415+27.66'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
415+81.11'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
416+34.57'	Low Shoulder Match	-4.00%	-4.00%	4.00%	4.00%
416+74.66'	Begin Full Super	-5.50%	-5.50%	5.50%	5.50%
431+22.81'	End Full Super	-5.50%	-5.50%	5.50%	5.50%
431+62.90'	Low Shoulder Match	-4.00%	-4.00%	4.00%	4.00%
432+16.35'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
432+69.81'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
433+23.26'	Begin Normal Crown	-4.00%	-2.00%	-2.00%	-2.00%
433+23.26'	Begin Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%

CURVE 16

STATION	LOCATION	LEFT		RIGHT	
		SHOULDER	LANE	LANE	SHOULDER
436+46.30'	End Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
436+46.30'	End Normal Crown	-2.00%	-2.00%	-2.00%	-4.00%
436+94.23'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
437+42.16'	Reverse Crown	2.00%	2.00%	-2.00%	-4.00%
437+90.09'	Low Shoulder Match	4.00%	4.00%	-4.00%	-4.00%
438+33.23'	Begin Full Super	5.80%	5.80%	-5.80%	-5.80%
441+15.15'	End Full Super	5.80%	5.80%	-5.80%	-5.80%
441+58.29'	Low Shoulder Match	4.00%	4.00%	-4.00%	-4.00%
442+06.22'	Reverse Crown	2.00%	2.00%	-2.00%	-4.00%
442+54.15'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
443+02.08'	Begin Normal Crown	-2.00%	-2.00%	-2.00%	-4.00%
443+02.08'	Begin Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%

CURVE 17

STATION	LOCATION	LEFT		RIGHT	
		SHOULDER	LANE	LANE	SHOULDER
444+80.16'	End Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
444+80.16'	End Normal Crown	-2.00%	-2.00%	-2.00%	-4.00%
445+16.65'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
445+53.14'	Reverse Crown	2.00%	2.00%	-2.00%	-4.00%
445+89.63'	Low Shoulder Match	4.00%	4.00%	-4.00%	-4.00%
446+20.65'	Begin Full Super	5.70%	5.70%	-5.70%	-5.70%
448+80.04'	End Full Super	5.70%	5.70%	-5.70%	-5.70%
449+11.06'	Low Shoulder Match	4.00%	4.00%	-4.00%	-4.00%
449+47.55'	Reverse Crown	2.00%	2.00%	-2.00%	-4.00%
449+84.04'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
450+20.53'	Begin Normal Crown	-2.00%	-2.00%	-2.00%	-4.00%
450+20.53'	Begin Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%

2

					7130-00-74	7130-00-76	7130-00-77
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**
0002	201.0105	Clearing	STA	6.000			6.000
0004	201.0205	Grubbing	STA	6.000			6.000
0006	203.0100	Removing Small Pipe Culverts	EACH	20.000	20.000		
0008	204.0110	Removing Asphaltic Surface	SY	858.000	858.000		
0010	204.0115	Removing Asphaltic Surface Butt Joints	SY	3,077.000	3,077.000		
0012	204.0120	Removing Asphaltic Surface Milling	SY	148,510.000	148,510.000		
0014	204.0150	Removing Curb & Gutter	LF	553.000	553.000		
0016	204.0220	Removing Inlets	EACH	2.000			2.000
0018	205.0100	Excavation Common	CY	3,954.000			3,954.000
0020	205.0200	Excavation Rock	CY	813.000			813.000
0022	205.9015.S	Grading Shaping and Finishing Intersection (location) 01. STH 93 AND LOESEL LN	LS	1.000	1.000		
0024	205.9015.S	Grading Shaping and Finishing Intersection (location) 02. STH 93 AND CTH XX	LS	1.000	1.000		
0026	209.2100	Backfill Granular Grade 2	CY	775.000	575.000		200.000
0028	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 7130-00-74	LS	1.000	1.000		
0030	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	717.000		717.000	
0032	213.0100	Finishing Roadway (project) 01. 7130-00-74	EACH	1.000	1.000		
0034	213.0100	Finishing Roadway (project) 02. 7130-00-76	EACH	1.000		1.000	
0036	213.0100	Finishing Roadway (project) 03. 7130-00-77	EACH	1.000			1.000
0038	305.0110	Base Aggregate Dense 3/4-Inch	TON	14,829.000	14,629.000		200.000
0040	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	3,871.000	2,371.000		1,500.000
0042	305.0500	Shaping Shoulders	STA	56.000	56.000		
0044	440.4410	Incentive IRI Ride	DOL	31,819.000	31,819.000		
0046	455.0605	Tack Coat	GAL	23,265.000	22,090.000	955.000	220.000
0048	460.2005	Incentive Density PWL HMA Pavement	DOL	13,648.000	13,648.000		
0050	460.2010	Incentive Air Voids HMA Pavement	DOL	23,396.000	23,396.000		
0052	460.6443	HMA Pavement 3 MT 58-34 H	TON	1,298.000	127.000		1,171.000
0054	460.6444	HMA Pavement 4 MT 58-34 H	TON	31,195.000	27,564.000	2,251.000	1,380.000
0056	465.0110	Asphaltic Surface Patching	TON	300.000	300.000		
0058	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	144.000	144.000		
0060	465.0315	Asphaltic Flumes	SY	4.000	4.000		
0062	465.0425	Asphaltic Shoulder Rumble Strips 2-Lane Rural	LF	64,395.000		64,395.000	
0064	465.0475	Asphalt Centerline Rumble Strips 2-Lane Rural	LF	31,521.000	31,521.000		
0066	504.0900	Concrete Masonry Endwalls	CY	8.300	8.300		
0068	520.8000	Concrete Collars for Pipe	EACH	2.000			2.000
0070	520.8700	Cleaning Culvert Pipes	EACH	5.000	5.000		
0072	522.0124	Culvert Pipe Reinforced Concrete Class III 24-Inch	LF	416.000	416.000		
0074	522.0130	Culvert Pipe Reinforced Concrete Class III 30-Inch	LF	464.000	464.000		

					7130-00-74	7130-00-76	7130-00-77
Line	Item	Item Description	Unit	Total	Qty	Qty	Qty
0076	522.0142	Culvert Pipe Reinforced Concrete Class III 42-Inch	LF	64.000	64.000		
0078	522.0424	Culvert Pipe Reinforced Concrete Class IV 24-Inch	LF	128.000	128.000		
0080	522.0436	Culvert Pipe Reinforced Concrete Class IV 36-Inch	LF	256.000	256.000		
0082	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	14.000	14.000		
0084	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	12.000	12.000		
0086	522.1036	Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	EACH	4.000	4.000		
0088	522.1042	Apron Endwalls for Culvert Pipe Reinforced Concrete 42-Inch	EACH	2.000	2.000		
0090	522.2319	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 19x30-Inch	LF	128.000	128.000		
0092	522.2329	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 29x45-Inch	LF	144.000	144.000		
0094	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	254.000	254.000		
0096	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	299.000	299.000		
0098	606.0300	Riprap Heavy	CY	41.000	41.000		
0100	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	43.000			43.000
0102	608.0330	Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	LF	15.000			15.000
0104	611.0642	Inlet Covers Type MS	EACH	4.000			4.000
0106	611.3902	Inlets Median 2 Grate	EACH	2.000			2.000
0108	611.8110	Adjusting Manhole Covers	EACH	3.000			3.000
0110	614.0010	Barrier System Grading Shaping Finishing	EACH	25.000	25.000		
0112	614.0920	Salvaged Rail	LF	2,727.000	2,727.000		
0114	614.2300	MGS Guardrail 3	LF	2,087.500	2,087.500		
0116	614.2330	MGS Guardrail 3 K	LF	525.000	525.000		
0118	614.2350	MGS Guardrail Short Radius	LF	112.500	112.500		
0120	614.2500	MGS Thrie Beam Transition	LF	788.000	788.000		
0122	614.2610	MGS Guardrail Terminal EAT	EACH	28.000	28.000		
0124	614.2630	MGS Guardrail Short Radius Terminal	EACH	2.000	2.000		
0126	618.0100	Maintenance And Repair of Haul Roads (project) 01. 7130-00-74	EACH	1.000	1.000		
0128	619.1000	Mobilization	EACH	1.000	0.870	0.050	0.080
0130	624.0100	Water	MGAL	50.000	50.000		
0132	625.0500	Salvaged Topsoil	SY	8,260.000	2,941.000		5,319.000
0134	628.1504	Silt Fence	LF	8,640.000	8,640.000		
0136	628.1520	Silt Fence Maintenance	LF	17,280.000	17,280.000		
0138	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000		

					7130-00-74	7130-00-76	7130-00-77
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**
0140	628.1910	Mobilizations Emergency Erosion Control	EACH	6.000	6.000		
0142	628.2006	Erosion Mat Urban Class I Type A	SY	210.000	210.000		
0144	628.2008	Erosion Mat Urban Class I Type B	SY	8,050.000	2,731.000		5,319.000
0146	628.7005	Inlet Protection Type A	EACH	2.000			2.000
0148	628.7504	Temporary Ditch Checks	LF	160.000	30.000		130.000
0150	628.7555	Culvert Pipe Checks	EACH	149.000	149.000		
0152	629.0205	Fertilizer Type A	CWT	5.200	1.850		3.350
0154	630.0120	Seeding Mixture No. 20	LB	212.100	79.400		132.700
0156	630.0140	Seeding Mixture No. 40	LB	7.300			7.300
0158	633.5200	Markers Culvert End	EACH	56.000	56.000		
0160	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	82.000	82.000		
0162	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	45.000	45.000		
0164	637.2210	Signs Type II Reflective H	SF	578.000	578.000		
0166	637.2230	Signs Type II Reflective F	SF	246.000	246.000		
0168	638.2602	Removing Signs Type II	EACH	129.000	129.000		
0170	638.3000	Removing Small Sign Supports	EACH	111.000	111.000		
0172	642.5201	Field Office Type C	EACH	1.000	1.000		
0174	643.0300	Traffic Control Drums	DAY	408.000	408.000		
0176	643.0310.S	Temporary Portable Rumble Strips	LS	1.000	1.000		
0178	643.0900	Traffic Control Signs	DAY	3,680.000	3,680.000		
0180	643.5000	Traffic Control	EACH	1.000	1.000		
0182	645.0120	Geotextile Type HR	SY	61.000	61.000		
0184	646.1020	Marking Line Epoxy 4-Inch	LF	19,516.000	19,516.000		
0186	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	79,144.000	79,144.000		
0188	646.3040	Marking Line Grooved Wet Ref Epoxy 8-Inch	LF	1,665.000	1,665.000		
0190	646.4520	Marking Line Same Day Epoxy 4-Inch	LF	30,944.000	30,944.000		
0192	646.5020	Marking Arrow Epoxy	EACH	7.000	7.000		
0194	646.5120	Marking Word Epoxy	EACH	2.000	2.000		
0196	646.5320	Marking Railroad Crossings Epoxy	EACH	2.000	2.000		
0198	646.6020	Marking Stop Line Epoxy 12-Inch	LF	9.000	9.000		
0200	646.7120	Marking Diagonal Epoxy 12-Inch	LF	65.000	65.000		
0202	646.7220	Marking Chevron Epoxy 24-Inch	LF	54.000	54.000		
0204	648.0100	Locating No-Passing Zones	MI	7.977	7.977		
0206	649.0105	Temporary Marking Line Paint 4-Inch	LF	50,743.000	50,743.000		
0208	650.4000	Construction Staking Storm Sewer	EACH	2.000			2.000
0210	650.4500	Construction Staking Subgrade	LF	1,865.000			1,865.000
0212	650.5000	Construction Staking Base	LF	1,865.000			1,865.000
0214	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	553.000	553.000		
0216	650.6000	Construction Staking Pipe Culverts	EACH	22.000	22.000		
0218	650.8000	Construction Staking Resurfacing Reference	LF	41,572.000	41,572.000		

					7130-00-74	7130-00-76	7130-00-77
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**
0220	650.9910	Construction Staking Supplemental Control (project) 01. 7130-00-74	LS	1.000	1.000		
0222	650.9910	Construction Staking Supplemental Control (project) 02. 7130-00-77	LS	1.000			1.000
0224	650.9920	Construction Staking Slope Stakes	LF	1,865.000			1,865.000
0226	690.0150	Sawing Asphalt	LF	4,251.000	2,666.000		1,585.000
0228	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,400.000	2,400.000		
0230	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	1,380.000	1,380.000		
0232	SPV.0060	Special 01. Ditch Cleaning	EACH	30.000	30.000		
0234	SPV.0060	Special 02. HMA Percent Within Limits (PWL) Test Strip Volumetrics	EACH	2.000	2.000		
0236	SPV.0060	Special 03. HMA Percent Within Limits (PWL) Test Strip Density	EACH	1.000	1.000		
0238	SPV.0090	Special 01. Concrete Curb & Gutter Cure and Seal Treatment	LF	553.000	553.000		
0240	SPV.0105	Special 01. Milling and Removing Temporary Joint	LS	1.000	1.000		
0242	SPV.0105	Special 02. Material Transfer Vehicle	LS	1.000	1.000		
0244	SPV.0170	Special 01. Reheating HMA Pavement Longitudinal Joints	STA	416.000	416.000		

NOTE: ALL ITEMS ARE UNDER PROJECT ID 7130-00-74 UNLESS INDICATED OTHERWISE IN THE ITEM TABLE.

3

CLEARING AND GRUBBING

PROJECT	STATION TO STATION	LOCATION	CLEARING 201.0105 STA	GRUBBING 201.0205 STA
7130-00-77	438+00 - 444+00	STH 93, LT	6	6

REMOVING SMALL PIPE CULVERTS

STATION	LOCATION	TYPE	203.0100 EACH
116+73	STH 93	24" x 102' C.M.P.	1
123+67	STH 93	48" x 62' C.M.P.	1
147+21	STH 93	36" x 63' C.M.P.	2
161+82	STH 93	24" x 77' C.M.P.	1
172+97	STH 93	24" x 56' C.M.P.	1
214+69	STH 93	24" x 60' C.M.P.	1
265+95	STH 93	24" x 74' C.M.P.	1
284+24	STH 93	30" x 73' C.M.P.	1
309+43	STH 93	24" x 82' C.M.P.	1
330+94	STH 93	30" x 90' C.M.P.	1
339+38	STH 93	24" x 91' C.M.P.	1
342+85	STH 93	30" x 87' C.M.P.	1
348+38	STH 93	30" x 87' C.M.P.	1
359+38	STH 93	24" x 101' C.M.P.	1
368+46	STH 93	30" x 89' C.M.P.	1
373+36	STH 93	24" x 85' C.M.P.	1
380+62	STH 93	30" x 70' C.M.P.	1
408+80	STH 93	30" x 76' C.M.P.	1
415+46	STH 93	36" x 58' C.M.P.	1
		TOTAL =	20

REMOVING INLETS

PROJECT	STATION	LOCATION	204.0220 EACH
7130-00-77	438+72	STH 93, LT	1
7130-00-77	442+80	STH 93, LT	1
		TOTAL =	2

REMOVING ASPHALTIC SURFACE BUTT JOINTS

STATION TO STATION	LOCATION	204.0115 SY
27+94 - 28+44	STH 93	200
67+52	STH 93, RT	41
77+61	LOESEL LN, RT	349
87+24	RIVER VALLEY RD, RT	77
115+47	CTH A, LT	147
203+90	LEWIS VALLEY RD, LT	457
212+75	PIETREK PARK, RT	136
271+72	CTH XX, LT	310
332+65	CROSS RD, RT	163
381+44	DORIS GUZA RD, LT	190
394+86	KUKA LN, LT	212
408+10	WALLACE LN, RT	92
408+44	JELEN LN, LT	160
425+60	CTH X, LT	199
430+45	STARWOOD LN, RT	189
443+15 - 443+65	STH 93	157
	TOTAL =	3077

REMOVING ASPHALTIC SURFACE MILLING

STATION TO STATION	LOCATION	204.0120 SY
27+94 - 38+69	STH 93	4255
39+56 - 101+48	STH 93	26139
104+42 - 197+05	STH 93	32863
197+62 - 273+58	STH 93	26583
274+18 - 398+26	STH 93	42390
399+27 - 443+65	STH 93	16280
	TOTAL =	148510

REMOVING ASPHALTIC SURFACE

STATION	LOCATION	204.0110 SY
-	DRIVEWAYS	858

PREPARE FOUNDATION FOR ASPHALTIC PAVING (7130-00-74)

STATION TO STATION	LOCATION	211.0100 LS
27+94 - 443+65	STH 93	1

BACKFILL GRANULAR GRADE 2

PROJECT	STATION TO STATION	LOCATION	209.2100 CY
7130-00-74	UNDISTRIBUTED	STH 93	575
7130-00-77	UNDISTRIBUTED	STH 93	200
		TOTAL =	775

CONCRETE CURB AND GUTTER

STATION TO STATION	LOCATION	30-INCH TYPE D 601.0411 LF	36-INCH 6-INCH SLOPED TYPE D 601.0557 LF	CONCRETE CURB & GUTTER CURE AND SEAL TREATMENT SPV.0090.01 LF
34+92 - 36+25	STH 93, RT	133	-	133
35+25 - 36+46	STH 93, LT	121	-	121
86+48 - 87+76	RIVER VALLEY RD	-	149	149
114+85 - 116+27	CTH A	-	150	150
	TOTALS =	254	299	553

FILE NAME : N:\PDS\...\030200_mq.pptx PLOT DATE : 11/08/2017 PLOT BY : DOTMYP. PLOT NAME : PLOT SCALE : 1:1

NOTE: ALL ITEMS ARE UNDER PROJECT ID 7130-00-74 UNLESS INDICATED OTHERWISE IN THE ITEM TABLE.

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PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS

PROJECT	STATION TO STATION	LOCATION	211.0400 STA
7130-00-76	69+54 - 429+74	STH 93, RT	361
7130-00-76	69+94 - 425+52	STH 93, LT	356
		TOTAL =	717

FINISHING ROADWAY

PROJECT	LOCATION	213.0100 EACH
7130-00-74	STH 93	1.00
7130-00-76	STH 95	1.00
7130-00-77	STH 96	1.00

SHAPING SHOULDERS

STATION TO STATION	LOCATION	305.0500 STA
41+65 - 69+54	STH 93, RT	28
42+00 - 69+94	STH 93, LT	28
	TOTAL =	56

ASPHALTIC FLUMES

STATION	LOCATION	465.0315 SY
115+91	STH 93, LT	4

REMOVING CURB & GUTTER

STATION TO STATION	LOCATION	204.0150 LF
34+92 - 36+25	STH 93, RT	133
35+25 - 36+46	STH 93, LT	121
86+48 - 87+08	RIVER VALLEY RD	84
87+37 - 87+77	RIVER VALLEY RD	65
114+90 - 115+24	CTH A	60
115+65 - 116+21	CTH A	90
	TOTAL =	553

BASE AGGREGATE DENSE 3/4-INCH

PROJECT	STATION TO STATION	LOCATION	305.0110 TON
7130-00-74	27+94 - 443+65	STH 93, LT	5502
7130-00-74	27+94 - 443+65	STH 93, RT	5574
7130-00-74	-	DRIVEWAYS	554
7130-00-74	-	UNDISTRIBUTED	3000
7130-00-77	425+54 - 443+65	STH 93, LT	200
		7130-00-74 SUBTOTAL =	14629
		7130-00-77 SUBTOTAL =	200
		TOTAL =	14829

BASE AGGREGATE DENSE 1 1/4-INCH

PROJECT	STATION TO STATION	LOCATION	305.0120 TON
7130-00-74	27+94 - 443+65	STH 93	1596
7130-00-74	-	UNDISTRIBUTED	775
7130-00-77	425+54 - 443+65	STH 93, LT	1500
		7130-00-74 SUBTOTAL =	2371
		7130-00-77 SUBTOTAL =	1500
		TOTAL =	3871

ASPHALT CENTER LINE RUMBLE STRIPS 2-LANE RURAL

STATION TO STATION	LOCATION	465.0475 LF
39+98 - 65+56	STH 93	2558
69+56 - 75+45	STH 93	589
79+61 - 85+13	STH 93	552
89+13 - 95+88	STH 93	675
97+94 - 100+99	STH 93	305
104+86 - 113+46	STH 93	860
117+46 - 145+88	STH 93	2842
147+88 - 196+80	STH 93	4892
197+88 - 201+65	STH 93	377
205+65 - 211+73	STH 93	608
213+73 - 238+09	STH 93	2436
252+15 - 269+76	STH 93	1761
274+43 - 330+64	STH 93	5621
334+64 - 379+46	STH 93	4482
383+46 - 392+87	STH 93	941
399+53 - 406+10	STH 93	657
410+16 - 423+80	STH 93	1365
	TOTAL =	31521

NOTE: ALL ITEMS ARE UNDER PROJECT ID 7130-00-74 UNLESS INDICATED OTHERWISE IN THE ITEM TABLE.

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GRADING SHAPING AND FINISHING INTERSECTION

				FOR INFORMATION ONLY										
STATION	TO STATION	LOCATION	205.9015.S LS	EXCAVATION COMMON (CY)	UNEXPANDED FILL (CY)	EXPANDED FILL (25%) (CY)	WASTE (CY)	BORROW (CY)	TOPSOIL (SY)	EROSION MAT URBAN CLASS I TYPE A (SY)	FERTILIZER TYPE A (CWT)	SEEDING MIXTURE NO. 20 (LB)	SEEDING MIXTURE NO. 40 (LB)	CONSTRUCTION STAKING SLOPE STAKES (LF)
73+52	77+02	01. STH 93 AND LOESEL LN	1	231	2.00	2.50	229	2.50	354	354	0.22	9.56	-	361
270+16	- 272+41	02. STH 93 AND CTH XX	1	267	3.00	3.75	264	3.75	586	586	0.37	11.48	2.90	285

BARRIER SYSTEM GRADING SHAPING FINISHING

				FOR INFORAMTION ONLY											
STATION	TO STATION	LOCATION	614.0010 EACH	EXCAVATION COMMON (CY)	UNEXPANDED FILL (CY)	EXPANDED FILL (25% EXP.) (CY)	WASTE (CY)	BORROW (CY)	SALVAGED TOPSOIL (CY)	FERTILIZER TYPE A (CWT)	SEEDING MIXTURE NO. 20 (LB)	SEEDING MIXTURE NO. 40 (LB)	EROSION MAT URBAN CLASS I TYPE B (SY)	CONSTRUCTION STAKING SLOPE STAKES (LF)
34+80	- 38+64	STH 93, RT	1	-	17	21	-	21	87	0.05	-	1.6	87	85
35+02	- 38+72	STH 93, LT	1	-	12	15	-	15	71	0.05	1.9	-	71	83
39+52	- 41+65	STH 93, RT	1	-	37	46	-	46	231	0.15	-	4.2	231	217
39+60	- 42+00	STH 93, LT	1	-	37	46	-	46	225	0.14	6.1	-	225	217
98+87	- 101+35	STH 93, RT	1	-	54	68	-	68	215	0.14	5.8	-	215	156
99+31	- 101+59	STH 93, LT	1	-	105	131	-	131	404	0.25	10.9	-	404	196
104+36	- 107+85	STH 93, RT	1	-	39	49	-	49	200	0.13	5.4	-	200	130
104+59	- 107+75	STH 93, LT	1	-	77	96	-	96	270	0.17	7.3	-	270	153
118+44	- 126+83	STH 93, RT	1	-	131	164	-	164	376	0.24	10.2	-	376	704
123+38	129+80	STH 93, LT	1	-	61	76	-	76	171	0.11	4.6	-	171	180
194+77	- 197+01	STH 93, RT	1	-	54	68	-	68	156	0.10	4.2	-	156	149
194+99	- 197+10	STH 93, LT	1	-	30	38	-	38	160	0.10	4.3	-	160	213
197+58	- 199+89	STH 93, RT	1	-	13	16	-	16	59	0.04	1.6	-	59	75
197+68	- 199+81	STH 93, LT	1	-	-	-	-	-	-	-	-	-	-	-
246+69	- 251+31	STH 93, LT	1	-	78	98	-	98	300	0.19	-	5.4	300	400
271+32	- 273+50	STH 93, RT	1	-	6	8	-	8	71	0.04	-	1.3	71	134
272+49	- 273+68	STH 93, LT	1	141	4	5	137	5	271	0.17	-	4.9	271	168
274+09	- 275+21	STH 93, RT	1	-	5	6	-	6	62	0.04	1.7	-	62	92
274+28	- 276+41	STH 93, LT	1	-	27	34	-	34	177	0.11	4.8	-	177	184
395+23	- 398+20	STH 93, RT	1	-	53	66	-	66	213	0.13	5.8	-	213	198
395+87	- 398+33	STH 93, LT	1	-	25	31	-	31	184	0.12	5.0	-	184	202
399+21	- 401+65	STH 93, RT	1	-	24	30	-	30	154	0.10	4.1	-	154	131
399+34	- 402+31	STH 93, LT	1	-	34	43	-	43	159	0.10	4.3	-	159	150
421+15	- 427+76	STH 93, RT	1	-	220	275	-	275	756	0.48	20.4	-	756	729
422+30	425+35	STH 93, LT	1	-	60	75	-	75	314	0.20	8.5	-	314	333
	PROJECT TOTALS =		25	141	1203	1504	137	1504	5284	3	117	17	5284	5279

NOTE: ALL ITEMS ARE UNDER PROJECT ID 7130-00-74 UNLESS INDICATED OTHERWISE IN THE ITEM TABLE.

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ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL

PROJECT	STATION TO STATION	LOCATION	465.0425 LF
7130-00-76	39+98 - 44+19	STH 93, RT	421
7130-00-76	39+98 - 44+11	STH 93, LT	413
7130-00-76	44+73 - 52+08	STH 93, LT	735
7130-00-76	44+84 - 61+82	STH 93, RT	1699
7130-00-76	52+70 - 62+41	STH 93, LT	972
7130-00-76	70+89 - 76+83	STH 93, LT	590
7130-00-76	71+18 - 73+67	STH 93, RT	250
7130-00-76	77+46 - 82+88	STH 93, LT	539
7130-00-76	79+78 - 84+97	STH 93, RT	517
7130-00-76	89+26 - 95+97	STH 93, RT	670
7130-00-76	90+80 - 95+80	STH 93, LT	500
7130-00-76	97+86 - 100+99	STH 93, LT	316
7130-00-76	98+02 - 100+99	STH 93, RT	294
7130-00-76	104+86 - 113+35	STH 93, LT	859
7130-00-76	104+86 - 111+79	STH 93, RT	685
7130-00-76	119+71 - 193+29	STH 93, RT	7362
7130-00-76	119+77 - 136+85	STH 93, LT	1707
7130-00-76	137+53 - 146+29	STH 93, LT	876
7130-00-76	147+98 - 164+72	STH 93, LT	1674
7130-00-76	165+36 - 196+83	STH 93, LT	3147
7130-00-76	193+92 - 196+78	STH 93, RT	287
7130-00-76	197+86 - 211+66	STH 93, RT	1385
7130-00-76	197+91 - 202+40	STH 93, LT	448
7130-00-76	205+38 - 217+19	STH 93, LT	1180
7130-00-76	213+50 - 231+14	STH 93, RT	1766
7130-00-76	217+92 - 238+33	STH 93, LT	2040
7130-00-76	236+26 - 242+92	STH 93, RT	666
7130-00-76	239+42 - 244+76	STH 93, LT	534
7130-00-76	247+26 - 273+28	STH 93, RT	2602
7130-00-76	252+30 - 268+17	STH 93, LT	1587
7130-00-76	274+38 - 331+25	STH 93, RT	5682
7130-00-76	274+48 - 290+63	STH 93, LT	1616
7130-00-76	291+25 - 293+81	STH 93, LT	257
7130-00-76	294+44 - 322+17	STH 93, LT	2775
7130-00-76	322+78 - 325+67	STH 93, LT	291
7130-00-76	326+27 - 350+26	STH 93, LT	2401
7130-00-76	334+17 - 397+97	STH 93, RT	6373
7130-00-76	350+91 - 366+89	STH 93, LT	1599
7130-00-76	367+50 - 379+89	STH 93, LT	1241
7130-00-76	382+78 - 393+20	STH 93, LT	1044
7130-00-76	399+49 - 407+53	STH 93, RT	804
7130-00-76	399+56 - 406+75	STH 93, LT	719
7130-00-76	408+91 - 423+81	STH 93, RT	1494
7130-00-76	409+74 - 423+57	STH 93, LT	1378
		TOTAL =	64395

HMA PAVEMENT

PROJECT	STATION TO STATION	LOCATION	TACK COAT 455.0605 GAL	HMA PAVEMENT 3 MT 58-34 H 460.6443 TON	HMA PAVEMENT 4 MT 58-34 H 460.6444 TON	ASPHALTIC SURFACE PATCHING 465.0110 TON	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 465.0120 TON
7130-00-74	27+94 - 443+66	STH 93	22091	127	27564	300	144
7130-00-76	39+98 - 443+66	STH 93	955	-	2251	-	-
7130-00-77	425+53 - 443+66	STH 93	220	1171	1380	-	-
		TOTALS =	23266	1298	31195	300	144

STORM SEWER PIPE REINFORCED CONCRETE

PROJECT	STATION TO STATION	LOCATION	CLASS III 24-INCH 608.0324 LF	CLASS III 30-INCH 608.033 LF	CONCRETE COLLARS FOR PIPE 520.8000 EACH
7130-00-77	438+72 - 438+76	STH 93, LT	-	15	1
7130-00-77	442+80 - 443+22	STH 93, LT	43	-	1
		TOTALS =	43	15	2

ADJUSTING MANHOLE COVERS

PROJECT	STATION	LOCATION	611.8110 EACH
7130-00-77	31+87	STH 93	1
7130-00-77	439+36	STH 93, LT	1
7130-00-77	441+35	STH 93, LT	1
		TOTAL =	3

INLET PROTECTION TYPE A

PROJECT	STATION	LOCATION	628.7005 EACH
7130-00-77	438+85	STH 93, LT	1
7130-00-77	442+78	STH 93, LT	1
		TOTAL =	2

SALVAGED RAIL

STATION TO STATION	LOCATION	614.0920 LF
37+69 - 38+52	STH 93, RT	85
37+77 - 38+59	STH 93, LT	85
39+67 - 40+52	STH 93, RT	85
39+73 - 40+58	STH 93, LT	85
100+05 - 101+27	STH 93, RT	125
100+29 - 101+47	STH 93, LT	124
104+47 - 105+67	STH 93, RT	124
104+59 - 105+79	STH 93, LT	123
119+48 - 119+99	STH 93, RT	52
120+00 - 125+64	STH 93, RT	570
196+19 - 197+00	STH 93, RT	84
196+27 - 197+09	STH 93, LT	84
197+58 - 198+40	STH 93, RT	84
197+66 - 198+48	STH 93, LT	84
272+68 - 273+49	STH 93, RT	83
272+84 - 273+66	STH 93, LT	83
274+09 - 274+90	STH 93, RT	84
274+25 - 275+06	STH 93, LT	84
397+29 - 398+19	STH 93, RT	86
397+43 - 398+25	STH 93, LT	85
399+29 - 400+10	STH 93, RT	85
399+42 - 400+23	STH 93, LT	86
423+93 - 426+43	STH 93, RT	257
	TOTAL =	2727

NOTE: ALL ITEMS ARE UNDER PROJECT ID 7130-00-74 UNLESS INDICATED OTHERWISE IN THE ITEM TABLE.

3

CULVERT PIPE

STATION	LOCATION	CONCRETE MASONRY ENDWALLS 504.0900 CY	CLEANING CULVERT PIPES 520.7000 EACH	CULVERT PIPE REINFORCED CONCRETE CLASS III 24-INCH 522.0124 LF	CLASS III 30-INCH 522.0130 LF	CLASS III 42-INCH 522.0142 LF	CLASS IV 24-INCH 522.0424 LF	CLASS IV 36-INCH 522.0436 LF	CLASS HE-III 19X30-INCH 523.2319 LF	CLASS HE-III 29X45-INCH 523.2329 LF	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH 522.1024 EACH	30-INCH 522.1030 EACH	36-INCH 522.1036 EACH	42-INCH 522.1042 EACH	INLET ELEVATION (FT)	OUTLET ELEVATION (FT)
116+73	STH 93	-	-	96	-	-	-	-	-	-	2	-	-	-	735.714	735.278
123+64	STH 93	3	-	-	-	-	-	-	-	72	-	-	-	-	735.199	733.346
123+71	STH 93	-	-	-	-	-	-	-	-	72	-	-	-	-	735.199	733.346
139+08	STH 93	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
147+18	STH 93	3	-	-	-	-	-	64	-	-	-	-	-	-	735.974	735.382
147+23	STH 93	-	-	-	-	-	-	64	-	-	-	-	-	-	735.974	735.382
161+83	STH 93	-	-	-	-	-	72	-	-	-	2	-	-	-	746.411	740.729
172+94	STH 93	2	-	-	-	-	-	-	64	-	-	-	-	-	752.929	752.445
172+99	STH 93	-	-	-	-	-	-	-	64	-	-	-	-	-	752.929	752.445
214+68	STH 93	-	-	-	-	-	56	-	-	-	2	-	-	-	760.318	759.978
236+95	STH 93	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
254+98	STH 93	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
265+95	STH 93	-	-	-	-	-	-	64	-	-	-	-	2	-	757.336	756.912
284+24	STH 93	-	-	-	64	-	-	-	-	-	-	2	-	-	763.352	763.014
309+43	STH 93	-	-	72	-	-	-	-	-	-	2	-	-	-	762.684	762.329
330+94	STH 93	-	-	-	80	-	-	-	-	-	-	2	-	-	758.836	758.374
339+38	STH 93	-	-	80	-	-	-	-	-	-	2	-	-	-	755.715	755.477
342+84	STH 93	-	-	-	80	-	-	-	-	-	-	2	-	-	756.642	756.339
348+38	STH 93	-	-	-	80	-	-	-	-	-	-	2	-	-	755.800	755.800
354+36	STH 93	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
359+38	STH 93	-	-	96	-	-	-	-	-	-	2	-	-	-	757.698	757.591
368+45	STH 93	-	-	-	80	-	-	-	-	-	-	2	-	-	759.731	759.178
373+36	STH 93	-	-	72	-	-	-	-	-	-	2	-	-	-	761.827	760.533
380+62	STH 93	-	-	-	-	64	-	-	-	-	-	-	-	2	761.833	761.472
387+37	STH 93	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
408+81	STH 93	-	-	-	80	-	-	-	-	-	-	2	-	-	764.439	763.827
415+46	STH 93	-	-	-	-	-	-	64	-	-	-	-	2	-	769.906	768.168
PROJECT TOTALS =		8	5	416	464	64	128	256	128	144	14	12	4	2		

3

INLETS

PROJECT	STATION	LOCATION	OFFSET TO CENTER OF STRUCTURE	CASTING ELEVATION	TOP OF STRUCTURE ELEVATION	BOTTOM OF STRUCTURE ELEVATION	STRUCTURE DEPTH	611.3902 INLET MEDIAN 2 GRATE EACH	611.0642 INLET COVERS TYPE MS EACH
7130-00-77	438+72.00	STH 93, LT	50.1'	783.40	783.40	779.58	3.82	1	2
7130-00-77	442+80.00	STH 93, LT	45.0'	785.22	785.22	780.92	4.30	1	2

NOTE: ALL ITEMS ARE UNDER PROJECT ID 7130-00-74 UNLESS INDICATED OTHERWISE IN THE ITEM TABLE.

3

MAINTENANCE AND REPAIR OF HAUL ROADS

PROJECT	LOCATION	618.0100 EACH
7130-00-74	STH 93	1

MOBILIZATION

PROJECT	LOCATION	619.1000 EACH
7130-00-74	STH 93	0.87
7130-00-76	STH 93	0.05
7130-00-77	STH 93	0.08
	TOTAL =	1.0

WATER

STATION TO STATION			LOCATION	624.0100 MGAL
27+94	-	443+65	STH 93	50

MOBILIZATIONS EROSION CONTROL

PROJECT	LOCATION	MOBILIZATIONS EROSION CONTROL 628.1905 EACH	MOBILIZATIONS EMERGENCY EROSION CONTROL 628.191 EACH
7130-00-74	STH 93	4	6

MARKERS CULVERT END

STATION TO STATION			LOCATION	633.5200 EACH
27+94	-	424+07	STH 93	56

SILT FENCE

STATION TO STATION			LOCATION	SILT FENCE 628.1504 LF	SILT FENCE MAINTENANCE 628.152 LF
36+19	-	36+87	STH 93, RT	80	160
36+61	-	37+16	STH 93, LT	75	150
39+66	-	41+57	STH 93, RT	195	390
39+72	-	41+65	STH 93, LT	195	390
73+57	-	77+00	STH 93, RT	350	700
98+27	-	99+68	STH 93, RT	150	300
99+84	-	101+46	STH 93, LT	185	370
106+60	-	107+47	STH 93, RT	100	200
106+60	-	107+64	STH 93, LT	135	270
116+70			STH 93, LT	30	60
116+77			STH 93, RT	30	60
116+98	-	119+00	STH 93, LT	200	400
119+66	-	126+64	STH 93, RT	710	1420
122+73	-	124+38	STH 93, LT	170	340
147+14			STH 93, RT	35	70
147+27			STH 93, LT	35	70
161+82			STH 93, RT	30	60
161+84			STH 93, LT	30	60
172+95			STH 93, RT	30	60
173+00			STH 93, LT	30	60
194+94	-	196+33	STH 93, RT	140	280
195+10	-	197+03	STH 93, LT	195	390
198+43	-	199+09	STH 93, RT	65	130
214+68			STH 93, LT	25	50
214+69			STH 93, RT	25	50
247+16	-	250+89	STH 93, LT	365	730
265+95			STH 93, RT	30	60
265+95			STH 93, LT	30	60
272+30	-	273+48	STH 93, RT	120	240
274+13	-	274+81	STH 93, RT	85	170
274+30	-	275+88	STH 93, LT	170	340
284+22			STH 93, RT	30	60
284+25			STH 93, LT	30	60
309+41			STH 93, RT	30	60
309+45			STH 93, LT	30	60
330+92			STH 93, RT	30	60
330+95			STH 93, LT	30	60
339+35			STH 93, RT	40	80
339+40			STH 93, LT	40	80
342+84			STH 93, RT	40	80
342+84			STH 93, LT	40	80
348+37			STH 93, RT	40	80
348+40			STH 93, LT	40	80
359+38			STH 93, RT	40	80
359+38			STH 93, LT	40	80
368+44			STH 93, LT	30	60
368+46			STH 93, RT	30	60
373+36			STH 93, RT	30	60
373+36			STH 93, LT	30	60
380+61			STH 93, RT	30	60
			SUBTOTALS =	4695	9390

SILT FENCE - CONTINUED

STATION TO STATION			LOCATION	SILT FENCE 628.1504 LF	SILT FENCE MAINTENANCE 628.152 LF
380+62			STH 93, LT	30	60
395+22	-	397+13	STH 93, RT	200	400
395+86	-	397+75	STH 93, LT	190	380
400+09	-	401+30	STH 93, RT	130	260
400+52	-	401+88	STH 93, LT	140	280
408+24	-	410+93	STH 93, RT	285	570
408+84			STH 93, LT	30	60
415+07		416+50	STH 93, RT	160	320
415+49			STH 93, LT	30	60
421+17	-	428+07	STH 93, RT	720	1440
422+64	-	423+48	STH 93, LT	90	180
424+08	-	425+20	STH 93, LT	210	420
-			UNDISTRIBUTED	1730	3460
			SUBTOTALS =	3945	7890
			PROJECT TOTALS =	8640	17280

TEMPORARY DITCH CHECKS

PROJECT	STATION	LOCATION	628.7504 LF
7130-00-74	270+35	STH 93, LT	8
7130-00-74	272+38	STH 93, LT	8
7130-00-74	273+50	STH 93, LT	8
7130-00-74	-	UNDISTRIBUTED	6
7130-00-77	425+85	STH 93, LT	8
7130-00-77	426+47	STH 93, LT	8
7130-00-77	428+02	STH 93, LT	8
7130-00-77	429+99	STH 93, LT	8
7130-00-77	431+53	STH 93, LT	8
7130-00-77	432+90	STH 93, LT	8
7130-00-77	434+39	STH 93, LT	8
7130-00-77	435+90	STH 93, LT	8
7130-00-77	437+00	STH 93, LT	8
7130-00-77	438+30	STH 93, LT	8
7130-00-77	439+12	STH 93, LT	8
7130-00-77	440+56	STH 93, LT	8
7130-00-77	442+15	STH 93, LT	8
7130-00-77	-	UNDISTRIBUTED	26
		7130-00-74 SUBTOTAL =	30
		7130-00-77 SUBTOTAL =	130
		TOTAL =	160

NOTE: ALL ITEMS ARE UNDER PROJECT ID 7130-00-74 UNLESS INDICATED OTHERWISE IN THE ITEM TABLE.

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CULVERT PIPE CHECKS

STATION	LOCATION	628.7555 EACH
116+70	STH 93, LT	6
123+66	STH 93, LT	6
147+27	STH 93, LT	16
161+84	STH 93, LT	3
173+00	STH 93, LT	12
214+68	STH 93, LT	3
265+95	STH 93, LT	12
284+25	STH 93, LT	6
309+45	STH 93, LT	5
330+96	STH 93, LT	3
339+40	STH 93, LT	3
342+83	STH 93, LT	7
348+37	STH 93, RT	3
359+38	STH 93, LT	6
368+44	STH 93, LT	5
373+36	STH 93, LT	3
380+62	STH 93, LT	12
408+85	STH 93, LT	3
415+49	STH 93, LT	5
-	UNDISTRIBUTED	30
	TOTAL =	149

FIELD OFFICE TYPE C

LOCATION	642.5201 EACH
STH 93	1

TRAFFIC CONTROL DRUMS

PROJECT	LOCATION	643.0300 DAY
7130-00-74	STH 93	408

TEMPORARY PORTABLE RUMBLE STRIPS

PROJECT	LOCATION	643.0310.S LS
7130-00-74	STH 93	1

EROSION MAT URBAN CLASS I

PROJECT	STATION TO STATION	LOCATION	TYPE A 628.2006 SY	TYPE B 628.2008 SY
7130-00-74	116+73	STH 93, LT	-	52
7130-00-74	116+73	STH 93, RT	11	58
7130-00-74	123+67	STH 93, LT	-	44
7130-00-74	123+67	STH 93, RT	-	61
7130-00-74	147+21	STH 93, RT	-	64
7130-00-74	147+21	STH 93, LT	-	33
7130-00-74	161+83	STH 93, RT	-	70
7130-00-74	161+83	STH 93, LT	-	36
7130-00-74	172+97	STH 93, RT	-	51
7130-00-74	172+97	STH 93, LT	-	46
7130-00-74	214+68	STH 93, LT	-	31
7130-00-74	214+68	STH 93, RT	11	31
7130-00-74	265+95	STH 93, LT	-	59
7130-00-74	265+95	STH 93, RT	19	58
7130-00-74	284+24	STH 93, RT	14	53
7130-00-74	284+24	STH 93, LT	-	59
7130-00-74	309+43	STH 93, RT	11	44
7130-00-74	309+43	STH 93, LT	-	42
7130-00-74	330+94	STH 93, RT	14	51
7130-00-74	330+94	STH 93, LT	-	55
7130-00-74	339+38	STH 93, RT	11	45
7130-00-74	339+38	STH 93, LT	-	54
7130-00-74	342+84	STH 93, LT	-	50
7130-00-74	342+84	STH 93, RT	14	58
7130-00-74	348+38	STH 93, RT	-	56
7130-00-74	348+38	STH 93, LT	14	53
7130-00-74	359+38	STH 93, RT	11	59
7130-00-74	359+38	STH 93, LT	-	58
7130-00-74	368+45	STH 93, LT	-	59
7130-00-74	368+45	STH 93, RT	14	54
7130-00-74	373+36	STH 93, RT	11	63
7130-00-74	373+36	STH 93, LT	-	62
7130-00-74	380+62	STH 93, RT	21	62
7130-00-74	380+62	STH 93, LT	-	75
7130-00-74	408+81	STH 93, RT	14	530
7130-00-74	408+81	STH 93, LT	-	69
7130-00-74	415+46	STH 93, RT	19	277
7130-00-74	415+46	STH 93, LT	-	50
7130-00-77	425+53 - 443+65	STH 93, LT	-	5319
		7130-00-74 SUBTOTAL =	210	2731
		7130-00-77 SUBTOTAL =	-	5319
		TOTAL =	210	8050

TRAFFIC CONTROL SIGNS

PROJECT	LOCATION	643.0900 DAY
7130-00-74	STH 93	3680

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NOTE: ALL ITEMS ARE UNDER PROJECT ID 7130-00-74 UNLESS INDICATED OTHERWISE IN THE ITEM TABLE.

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TRAFFIC CONTROL

PROJECT	LOCATION	643.5000 EACH
7130-00-74	STH 93	1

RIP RAP & GEOTEXTILE FABRIC

STATION	LOCATION	RIP RAP HEAVY 606.0200 CY	GEOTEXTILE FABRIC TYPE HR 645.0120 SY
115+99	CTH A	9	14
123+68	RT	16	24
161+82	RT	6	9
439+35	RT	9	14
	TOTAL =	41	61

LOCATING NO-PASSING ZONES

STATION TO STATION	LOCATION	648.0100 MI
27+94 - 449+15	STH 93	7.98

TEMPORARY PAVEMENT MARKING PAINT 4-INCH

STATION TO STATION	LOCATION	649.0105 LF
27+94 - 416+25	STH 93	45285
27+94 - 416+25	STH 93	5458
	TOTAL =	50743

SAWING ASPHALT

PROJECT	STATION TO STATION	LOCATION	690.0150 LF
7130-00-74	27+94 - 425+53	STH 93	2666
7130-00-77	425+53 - 443+66	STH 93	1585
		TOTAL =	4251

TOPSOIL, SEEDING, AND FERTILIZER

PROJECT	STATION TO STATION	LOCATION	SALVAGED TOPSOIL 625.0500 SY	FERTILIZER TYPE A 629.0205 CWT	SEEDING MIXTURE NO. 20 630.0120 LB	SEEDING MIXTURE NO. 40 630.0140 LB
7130-00-74	116+73	STH 93, LT	52	0.03	1.4	-
7130-00-74	116+73	STH 93, RT	69	0.04	1.9	-
7130-00-74	123+67	STH 93, LT	44	0.03	1.2	-
7130-00-74	123+67	STH 93, RT	61	0.04	1.6	-
7130-00-74	147+21	STH 93, RT	64	0.04	1.7	-
7130-00-74	147+21	STH 93, LT	33	0.02	0.9	-
7130-00-74	161+83	STH 93, RT	70	0.04	1.9	-
7130-00-74	161+83	STH 93, LT	36	0.02	1.0	-
7130-00-74	172+97	STH 93, RT	51	0.03	1.4	-
7130-00-74	172+97	STH 93, LT	46	0.03	1.2	-
7130-00-74	214+68	STH 93, LT	31	0.02	0.8	-
7130-00-74	214+68	STH 93, RT	42	0.03	1.1	-
7130-00-74	265+95	STH 93, LT	59	0.04	1.6	-
7130-00-74	265+95	STH 93, RT	76	0.05	2.1	-
7130-00-74	284+24	STH 93, RT	67	0.04	1.8	-
7130-00-74	284+24	STH 93, LT	59	0.04	1.6	-
7130-00-74	309+43	STH 93, RT	55	0.03	1.5	-
7130-00-74	309+43	STH 93, LT	42	0.03	1.1	-
7130-00-74	330+94	STH 93, RT	65	0.04	1.8	-
7130-00-74	330+94	STH 93, LT	55	0.03	1.5	-
7130-00-74	339+38	STH 93, RT	56	0.04	1.5	-
7130-00-74	339+38	STH 93, LT	54	0.03	1.5	-
7130-00-74	342+84	STH 93, LT	50	0.03	1.4	-
7130-00-74	342+84	STH 93, RT	72	0.05	2.0	-
7130-00-74	348+38	STH 93, RT	56	0.04	1.5	-
7130-00-74	348+38	STH 93, LT	68	0.04	1.8	-
7130-00-74	359+38	STH 93, RT	70	0.04	1.9	-
7130-00-74	359+38	STH 93, LT	58	0.04	1.6	-
7130-00-74	368+45	STH 93, LT	59	0.04	1.6	-
7130-00-74	368+45	STH 93, RT	69	0.04	1.9	-
7130-00-74	373+36	STH 93, RT	74	0.05	2.0	-
7130-00-74	373+36	STH 93, LT	62	0.04	1.7	-
7130-00-74	380+62	STH 93, RT	83	0.05	2.2	-
7130-00-74	380+62	STH 93, LT	75	0.05	2.0	-
7130-00-74	408+81	STH 93, RT	545	0.34	14.7	-
7130-00-74	408+81	STH 93, LT	69	0.04	1.9	-
7130-00-74	415+46	STH 93, RT	295	0.19	8.0	-
7130-00-74	415+46	STH 93, LT	50	0.03	1.3	-
7130-00-77	425+53 - 443+65	STH 93, LT	5319	3.35	132.7	7.3
		7130-00-74 SUBTOTAL =	2941	1.85	79.4	-
		7130-00-77 SUBTOTAL =	5319	3.35	132.7	7.3
		TOTALS =	8260	5.20	212.1	7.3

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NOTE: ALL ITEMS ARE UNDER PROJECT ID 7130-00-74 UNLESS INDICATED OTHERWISE IN THE ITEM TABLE.

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CONSTRUCTION STAKING

PROJECT	STATION TO STATION	LOCATION	STORM SEWER 650.4000 EACH	SUBGRADE 650.4500 LF	BASE 650.5000 LF	CURB GUTTER AND CURB & GUTTER 650.5500 LF	PIPE CULVERTS 650.6000 EACH	RESURFACING REFERENCE 650.8000 LF	SUPPLEMENTAL CONTROL 650.9910 LS	SLOPE STAKES 650.9920 LF
7130-00-74	27+94 - 443+66	STH 93	-	-	-	553	22	41572	1	-
7130-00-77	425+53 - 443+66	STH 93	2	1865	1865	-	-	-	1	1865

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BEAM GUARD

			MGS GUARDRAIL						
STATION TO STATION	LOCATION	3 614.2300 LF	3K 614.233 LF	THRIE BEAM TRANSITION 614.2500 LF	SHORT RADIUS 614.2350 LF	SHORT RADIUS TERMINAL 614.2630 EACH	TERMINAL EAT 614.2610 EACH	REMARKS
36+00 - 38+54	STH 93, RT	-	162.50	39.40	-	-	1.00	
36+21 - 38+61	STH 93, LT	150.00	-	39.40	-	-	1.00	
39+64 - 40+68	STH 93, RT	12.50	-	39.40	-	-	1.00	
39+70 - 40+73	STH 93, LT	12.50	-	39.40	-	-	1.00	
99+10 - 101+29	STH 93, RT	125.00	-	39.40	-	-	1.00	
100+11 - 101+49	STH 93, LT	-	50.00	39.40	-	-	1.00	
104+44 - 107+01	STH 93, RT	-	162.50	39.40	-	-	1.00	
104+57 - 106+94	STH 93, LT	-	150.00	39.40	-	-	1.00	
119+51 - 125+66	STH 93, RT	512.50	-	-	-	-	2.00	
123+98 - 128+62	STH 93, LT	350.00	-	-	-	-	2.00	
196+11 - 197+01	STH 93, RT	12.50	-	39.40	-	-	1.00	
196+19 - 197+09	STH 93, LT	12.50	-	39.40	-	-	1.00	
197+59 - 198+49	STH 93, RT	12.50	-	39.40	-	-	1.00	
197+67 - 198+58	STH 93, LT	12.50	-	39.40	-	-	1.00	
247+64 - 250+20	STH 93, LT	150.00	-	-	-	-	2.00	MISSING POST AT CATTLE PASS
272+51 - 273+67	STH 93, LT	25.00	-	39.40	-	-	1.00	
272+59 - 273+50	STH 93, RT	-	-	39.40	-	-	1.00	
274+10 - 274+81	STH 93, RT	25.00	-	39.40	25.00	1.00	-	
274+26 - 275+17	STH 93, LT	12.50	-	39.40	-	-	1.00	
396+60 - 398+11	STH 93, RT	62.50	-	39.40	-	-	1.00	
397+13 - 398+28	STH 93, LT	12.50	-	39.40	-	-	1.00	
399+27 - 400+30	STH 93, RT	12.50	-	39.40	-	-	1.00	
399+40 400+93	STH 93, LT	62.50	-	39.40	-	-	1.00	
422+33 427+09	STH 93, RT	375.00	-	-	-	-	2.00	
423+19 420+16	STH 93, LT	137.50	-	-	87.50	1.00	1.00	MISSING POST AT CATTLE PASS
PROJECT TOTALS =		2087.50	525.00	788.00	112.50	2.00	28.00	

NOTE: ALL ITEMS ARE UNDER PROJECT ID 7130-00-74 UNLESS INDICATED OTHERWISE IN THE ITEM TABLE.

PERMANENT SIGNING

SIGN NUMBER	STATION	LOCATION	SIGN CODE	SIZE	DESCRIPTION	SIGNS TYPE II REFLECTIVE H 637.2210 SF	SIGNS TYPE II REFLECTIVE F 637.2230 SF	POSTS WOOD 4X6-INCH 14-FT 634.0614 EACH	POSTS WOOD 4X6-INCH 16-FT 634.0616 EACH	REMOVING SIGNS TYPE II 638.2602 EACH	REMOVING SMALL SIGN SUPPORTS 638.3000 EACH	SIGN MOUNTED ON SAME POST AS
1-01R	30+59	STH 93, RT	R2-1	-	SPEED LIMIT	-	-	-	-	1	1	-
1-02	30+59	STH 93, RT	R2-1	24X30	SPEED LIMIT	5.00	-	1	-	-	-	1-04
1-03R	30+59	STH 93, RT	W14-3	-	NO PASSING ZONE	-	-	-	-	1	-	-
1-04	30+59	STH 93, RT	W14-3	48X36	NO PASSING ZONE	-	6.00	-	-	-	-	1-02
1-05R	30+68	STH 93, LT	D1-3	-	DESTINATION/ARROWS	-	-	-	-	1	1	-
1-06	30+68	STH 93, LT	D1-3	90X42	DESTINATION/ARROWS	26.25	-	-	2	-	-	-
1-07R	31+64	STH 93, LT	J2-3	-	ROUTE TURN ASSEMBLY	-	-	-	-	1	1	-
1-08	31+64	STH 93, LT	J2-3	72X57	ROUTE TURN ASSEMBLY	28.50	-	-	2	-	-	-
1-09R	32+56	STH 93, LT	W3-1	-	STOP AHEAD	-	-	-	-	1	1	-
1-10	32+56	STH 93, LT	W3-1	36X36	STOP AHEAD	-	9.00	1	-	-	-	-
1-11R	34+06	STH 93, LT	-	-	TRUCK ROUTE TO WINONA, MN	-	-	-	-	1	1	-
1-12	34+71	STH 93, LT	J1-1	24X39	JUNCTION OR END ASSEMBLY	6.50	-	1	-	-	-	-
1-13R	35+60	STH 93, LT	M2-1	-	JUNCTION MARKER	-	-	-	-	1	1	-
1-14R	35+60	STH 93, LT	M1-6	-	STATE ROUTE MARKER	-	-	-	-	1	-	-
1-15R	35+60	STH 93, LT	I-2-3	-	COMMUNITY POPULATION NAME	-	-	-	-	1	1	-
1-16	35+60	STH 93, LT	I-2-3	60X24	COMMUNITY POPULATION NAME	10.00	-	2	-	-	-	-
1-17R	35+81	STH 93, RT	D2-2	-	DESTINATION/DISTANCE	-	-	-	-	1	1	-
1-18	35+81	STH 93, RT	D2-2	90X24	DESTINATION/DISTANCE	15.00	-	2	-	-	-	-
1-19R	36+60	STH 93, RT	-	-	ADOPT-A-HIGHWAY	-	-	-	-	1	2	-
1-20R	36+60	STH 93, RT	-	-	NAME PLATE	-	-	-	-	1	-	-
1-21R	36+60	STH 93, LT	I55-56	-	ADOPT-A-HIGHWAY	-	-	-	-	1	1	-
1-22R	37+67	STH 93, RT	R2-1	-	SPEED LIMIT	-	-	-	-	1	1	-
1-23	37+67	STH 93, RT	R2-1	24X30	SPEED LIMIT	5.00	-	1	-	-	-	-
1-24R	37+67	STH 93, LT	-	-	HEAVY TRAFFIC ROUTE	-	-	-	-	1	1	-
1-25R	37+67	STH 93, LT	R2-1	-	SPEED LIMIT	-	-	-	-	1	-	-
1-26	37+67	STH 93, LT	R2-1	24X30	SPEED LIMIT	5.00	-	1	-	-	-	-
1-27	42+94	STH 93, LT	W3-5	36X36	SPEED LIMIT AHEAD	-	9.00	1	-	-	-	-
1-28R	45+25	STH 93, LT	W3-5	-	SPEED LIMIT AHEAD	-	-	-	-	1	1	-
2-01R	56+67	STH 93, LT	W1-8	-	NO PASSING ZONE	-	-	-	-	1	1	-
2-02	56+67	STH 93, LT	W14-3	48X36	NO PASSING ZONE	-	6.00	1	-	-	-	-
2-03	69+04	STH 93, RT	W1-2L	30X30	LEFT CURVE	-	6.25	-	1	-	-	-
2-04	71+00	STH 93, RT	D1-1	72X15	DESTINATION/ARROWS	7.50	-	2	-	-	-	-
2-05R	73+74	STH 93, RT	W1-8	-	CHEVRON	-	-	-	-	1	1	-
2-06	73+74	STH 93, RT	W1-8	18X24	CHEVRON	-	3.00	1	-	-	-	2-07
2-07R	73+74	STH 93, RT	W1-8	-	CHEVRON	-	-	-	-	1	-	-
2-08	73+74	STH 93, RT	W1-8	18X24	CHEVRON	-	3.00	-	-	-	-	2-05
2-09R	75+97	STH 93, RT	W1-8	-	CHEVRON	-	-	-	-	1	1	-
2-10	75+97	STH 93, RT	W1-8	18X24	CHEVRON	-	3.00	1	-	-	-	2-11
2-11R	75+97	STH 93, RT	W1-8	-	CHEVRON	-	-	-	-	1	-	-
2-12	75+97	STH 93, RT	W1-8	18X24	CHEVRON	-	3.00	-	-	-	-	2-09
2-13R	77+92	LOESEL LANE	R1-1	-	STOP SIGN	-	-	-	-	1	1	-
2-14	77+92	LOESEL LANE	R1-1	30X30	STOP SIGN	5.18	-	1	-	-	-	-
2-15R	78+48	STH 93, RT	W1-8	-	CHEVRON	-	-	-	-	1	1	-
2-16	78+48	STH 93, RT	W1-8	18X24	CHEVRON	-	3.00	1	-	-	-	2-17
2-17R	78+48	STH 93, RT	W1-8	-	CHEVRON	-	-	-	-	1	-	-
2-18	78+48	STH 93, RT	W1-8	18X24	CHEVRON	-	3.00	-	-	-	-	2-15
2-19R	80+29	STH 93, RT	W1-8	-	CHEVRON	-	-	-	-	1	1	-
2-20	80+29	STH 93, RT	W1-8	18X24	CHEVRON	-	3.00	1	-	-	-	2-21
2-21R	80+29	STH 93, RT	W1-8	-	CHEVRON	-	-	-	-	1	-	-
2-22	80+29	STH 93, RT	W1-8	18X24	CHEVRON	-	3.00	-	-	-	-	2-19
SHEET 1												
					SHEET TOTALS =	113.93	60.25	18	5	27	20	

NOTE: ALL ITEMS ARE UNDER PROJECT ID 7130-00-74 UNLESS INDICATED OTHERWISE IN THE ITEM TABLE.

PERMANENT SIGNING - CONTINUED

SIGN NUMBER	STATION	LOCATION	SIGN CODE	SIZE	DESCRIPTION	SIGNS TYPE II REFLECTIVE H 637.2210 SF	SIGNS TYPE II REFLECTIVE F 637.2230 SF	POSTS WOOD 4X6-INCH 14-FT 634.0614 EACH	POSTS WOOD 4X6-INCH 16-FT 634.0616 EACH	REMOVING SIGNS TYPE II 638.2602 EACH	REMOVING SMALL SIGN SUPPORTS 638.3000 EACH	SIGN MOUNTED ON SAME POST AS
2-23R	80+29	STH 93, RT	M1-94	-	ADVANCE CROSSROAD NAME	-	-	-	-	1	2	-
2-24	80+29	STH 93, RT	D1-1	102X15	DESTINATION/ARROWS	10.63	-	-	2	-	-	-
3-01R	81+90	STH 93, RT	W1-8	-	CHEVRON	-	-	-	-	1	1	-
3-02	81+90	STH 93, RT	W1-8	18X24	CHEVRON	-	3.00	1	-	-	-	3-04
3-03R	81+90	STH 93, RT	W1-8	-	CHEVRON	-	-	-	-	1	-	-
3-04	81+90	STH 93, RT	W1-8	18X24	CHEVRON	-	3.00	-	-	-	-	3-02
3-05	82+88	STH 93, LT	D1-1	72X15	DESTINATION/ARROWS	7.50	-	2	-	-	-	-
3-06	85+44	STH 93, LT	W1-2R	30X30	RIGHT CURVE	-	6.25	-	1	-	-	-
3-07R	87+53	RIVER VALLEY RD	R1-1	-	STOP SIGN	-	-	-	-	1	1	-
3-08	87+53	RIVER VALLEY RD	R1-1	30X30	STOP SIGN	5.18	-	1	-	-	-	-
3-09R	89+18	STH 93, RT	W10-1	-	RAILROAD CROSSING	-	-	-	-	1	1	-
3-10	89+18	STH 93, RT	W10-1	36X36	RAILROAD CROSSING	-	7.07	1	-	-	-	-
3-11R	90+69	STH 93, LT	W14-3	-	NO PASSING ZONE	-	-	-	-	1	1	-
3-12	90+69	STH 93, LT	W14-3	48X36	NO PASSING ZONE	-	6.00	1	-	-	-	-
3-13R	94+09	STH 93, LT	M1-94	-	ADVANCE CROSSROAD NAME	-	-	-	-	1	2	-
3-14	94+09	STH 93, LT	D1-1	102X15	DESTINATION/ARROWS	10.63	-	-	2	-	-	-
3-15R	95+89	STH 93, RT	W1-2R	-	RIGHT CURVE	-	-	-	-	1	1	-
3-16R	95+89	STH 93, RT	W13-1	-	ADVISORY SPEED	-	-	-	-	1	-	-
3-17	95+89	STH 93, RT	W1-2R	30X30	RIGHT CURVE	-	6.25	1	-	-	-	3-17
3-18	95+89	STH 93, RT	W13-1	18X18	ADVISORY SPEED	-	2.25	-	-	-	-	3-16
3-19R	101+29	STH 93, RT	W5-52R	-	BRIDGE HASH MARKS-RIGHT	-	-	-	-	1	1	-
3-20	101+29	STH 93, RT	W5-52R	12X36	BRIDGE HASH MARKS-RIGHT	-	3.00	1	-	-	-	-
3-21R	101+49	STH 93, LT	W5-52L	-	BRIDGE HASH MARKS-LEFT	-	-	-	-	1	1	-
3-22	101+49	STH 93, LT	W5-52L	12X36	BRIDGE HASH MARKS-LEFT	-	3.00	1	-	-	-	-
3-23R	104+44	STH 93, RT	W5-52R	-	BRIDGE HASH MARKS-RIGHT	-	-	-	-	1	1	-
3-24	104+44	STH 93, RT	W5-52R	12X36	BRIDGE HASH MARKS-RIGHT	-	3.00	1	-	-	-	-
3-25R	104+57	STH 93, LT	W5-52L	-	BRIDGE HASH MARKS-LEFT	-	-	-	-	1	1	-
3-26	104+57	STH 93, LT	W5-52L	12X36	BRIDGE HASH MARKS-LEFT	-	3.00	1	-	-	-	-
3-27R	105+63	STH 93, RT	M2-1	-	JUNCTION MARKER	-	-	-	-	1	1	-
3-28R	105+63	STH 93, RT	M1-5A	-	COUNTY MARKER	-	-	-	-	1	-	-
3-29	105+63	STH 93, RT	J1-1	24X39	JUNCTION OR END ASSEMBLY	6.50	-	-	1	-	-	-
3-30R	105+91	STH 93, LT	W10-1	-	RAILROAD CROSSING	-	-	-	-	1	1	-
3-31	105+91	STH 93, LT	W10-1	36X36	RAILROAD CROSSING	-	7.07	1	-	-	-	-
4-01	113+75	STH 93, LT	J4-1	24X36	REASURRANCE ASSEMBLY	6.00	-	1	-	-	-	-
4-02R	114+94	STH 93, RT	M1-5A	-	COUNTY MARKER	-	-	-	-	1	1	-
4-03R	114+94	STH 93, RT	M6-1	-	ARROW-LEFT/RIGHT/AHEAD	-	-	-	-	1	-	-
4-04	114+94	STH 93, RT	J12-1	24X45	ROUTE TURN WITHOUT CARDINAL	7.50	-	-	1	-	-	-
4-05R	115+15	CTH A	M1-6	-	STATE ROUTE MARKER	-	-	-	-	1	1	-
4-06R	115+15	CTH A	M6-4	-	ARROWS LEFT-RIGHT	-	-	-	-	1	-	-
4-07	115+15	CTH A	J12-1	24X45	ROUTE TURN WITHOUT CARDINAL	7.50	-	-	1	-	-	-
4-08R	115+15	CTH A	R1-1	-	STOP SIGN	-	-	-	-	1	1	-
4-09	115+15	CTH A	R1-1	30X30	STOP SIGN	5.18	-	1	-	-	-	-
4-10R	115+46	STH 93, RT	W1-7	-	NIGHT ARROW (DOUBLE)	-	-	-	-	1	1	-
4-11	115+46	STH 93, RT	W1-7	48X24	NIGHT ARROW (DOUBLE)	-	8.00	1	-	-	-	-
4-12R	115+79	CTH A	R1-1	-	STOP SIGN	-	-	-	-	1	1	-
4-13	115+79	CTH A	R1-1	30X30	STOP SIGN	5.18	-	1	-	-	-	-
4-14R	116+22	STH 93, LT	M1-5A	-	COUNTY MARKER	-	-	-	-	1	1	-
4-15R	116+22	STH 93, LT	M6-1	-	ARROW-LEFT/RIGHT/AHEAD	-	-	-	-	1	-	-
4-16	116+22	STH 93, LT	J12-1	24X45	ROUTE TURN WITHOUT CARDINAL	7.50	-	-	1	-	-	-
4-17	117+32	STH 93, RT	J4-1	24X36	REASSURRANCE ASSEMBLY	6.00	-	1	-	-	-	-
SHEET 2												
					SHEET TOTALS =	85.29	60.89	17	9	25	21	

NOTE: ALL ITEMS ARE UNDER PROJECT ID 7130-00-74 UNLESS INDICATED OTHERWISE IN THE ITEM TABLE.

PERMANENT SIGNING - CONTINUED

SIGN NUMBER	STATION	LOCATION	SIGN CODE	SIZE	DESCRIPTION	SIGNS TYPE II REFLECTIVE H 637.2210 SF	SIGNS TYPE II REFLECTIVE F 637.2230 SF	POSTS WOOD 4X6-INCH 14-FT 634.0614 EACH	POSTS WOOD 4X6-INCH 16-FT 634.0616 EACH	REMOVING SIGNS TYPE II 638.2602 EACH	REMOVING SMALL SIGN SUPPORTS 638.3000 EACH	SIGN MOUNTED ON SAME POST AS
4-18	117+97	STH 93, LT	W1-2L	30X30	LEFT CURVE	-	6.25	1	-	-	-	4-22
4-19	117+97	STH 93, LT	W13-1	18X18	ADVISORY SPEED	-	2.25	-	-	-	-	4-21
4-20R	120+18	STH 93, RT	W1-4L	-	ROAD CURVES AHEAD	-	-	-	-	1	1	-
4-21	120+18	STH 93, RT	W1-4L	30X30	ROAD CURVES AHEAD	-	6.25	1	-	-	-	-
4-22R	120+66	STH 93, LT	-	-	TRUCK ROUTE TO WINONA, MN	-	-	-	-	1	2	-
4-23R	122+70	STH 93, LT	W1-2L	-	LEFT CURVE	-	-	-	-	1	1	-
4-24R	122+70	STH 93, LT	W13-1	-	ADVISORY SPEED	-	-	-	-	1	-	-
4-25R	125+38	STH 93, LT	M2-1	-	JUNCTION MARKER	-	-	-	-	1	1	-
4-26R	125+38	STH 93, LT	M1-5A	-	COUNTY MARKER	-	-	-	-	1	-	-
4-27	125+38	STH 93, LT	J1-1	24X39	JUNCTION OR END ASSEMBLY	6.50	-	-	1	-	-	-
5-01R	138+81	STH 93, LT	W1-4L	-	ROAD CURVES AHEAD	-	-	-	-	1	1	-
5-02	138+81	STH 93, LT	W1-4L	30X30	ROAD CURVES AHEAD	-	6.25	1	-	-	-	-
5-03R	140+40	STH 93, LT	-	-	ADOPT-A-HIGHWAY	-	-	-	-	1	2	-
5-04R	140+40	STH 93, LT	-	-	NAME PLATE	-	-	-	-	1	-	-
5-05R	141+03	STH 93, RT	I55-56	-	ADOPT-A-HIGHWAY	-	-	-	-	1	1	-
5-06R	141+03	STH 93, RT	W14-3	-	NO PASSING ZONE	-	-	-	-	1	-	-
5-07	141+03	STH 93, RT	W14-3	48x36	NO PASSING ZONE	-	6.00	1	-	-	-	-
5-08R	161+50	STH 93, RT	D7-68	-	ROAD TO COUNTY PARK 1 MILE	-	-	-	-	1	2	-
5-09R	161+50	STH 93, RT	DN5-69G	-	STANDARD SIGNS (CAMPING)	-	-	-	-	1	-	-
5-10	161+50	STH 93, RT	D7-67	60x36	COUNTY PARK 1 MILE	15.00	-	-	2	-	-	5-11
5-11	161+50	STH 93, RT	DN5-69G	48x9	STANDARD SIGNS (CAMPING)	3.00	-	-	-	-	-	5-10
7-01R	195+24	STH 93, LT	W14-3	-	NO PASSING ZONE	-	-	-	-	1	1	-
7-02	195+24	STH 93, LT	W14-3	48X36	NO PASSING ZONE	-	6.00	1	-	-	-	-
7-03R	196+16	STH 93, RT	M1-94	-	ADVANCE CROSSROAD NAME	-	-	-	-	1	2	-
7-04	196+16	STH 93, RT	D1-1	102X15	DESTINATION/ARROWS	10.63	-	-	2	-	-	-
7-05R	203+58	LEWIS VALLEY RD	R1-1	-	STOP SIGN	-	-	-	-	1	1	-
7-06	203+58	LEWIS VALLEY RD	R1-1	30X30	STOP SIGN	5.18	-	1	-	-	-	-
7-07R	205+17	STH 93, RT	W10-3	-	SIDE ROAD TRACKS LEFT/RIGHT	-	-	-	-	1	1	-
7-08	205+17	STH 93, RT	W10-3	36X36	SIDE ROAD TRACKS LEFT/RIGHT	-	9.00	1	-	-	-	-
7-09R	210+67	STH 93, LT	M1-94	-	ADVANCE CROSSROAD NAME	-	-	-	-	1	2	-
7-10	210+67	STH 93, LT	D1-1	102X15	DESTINATION/ARROWS	10.63	-	-	2	-	-	-
7-11R	212+42	STH 93, RT	D7-68-R	-	COUNTY PARK ARROW-RIGHT	-	-	-	-	1	1	-
7-12	212+42	STH 93, RT	D7-68-R	60X36	COUNTY PARK ARROW-RIGHT	15.00	-	-	2	-	-	-
7-13R	212+92	STH 93, LT	D7-68-L	-	COUNTY PARK ARROW-LEFT	-	-	-	-	1	1	-
7-14	212+92	STH 93, LT	D7-68-L	60X36	COUNTY PARK ARROW-LEFT	15.00	-	-	2	-	-	-
7-15R	212+94	PIETREK PARK	R1-1	-	STOP SIGN	-	-	-	-	1	1	-
7-16	212+94	PIETREK PARK	R1-1	30X30	STOP SIGN	5.18	-	1	-	-	-	-
7-17R	213+36	STH 93, RT	W14-3	-	NO PASSING ZONE	-	-	-	-	1	1	-
7-18	213+36	STH 93, RT	W14-3	48X36	NO PASSING ZONE	-	6.00	1	-	-	-	-
7-19R	220+42	STH 93, LT	W10-3	-	SIDE ROAD TRACKS LEFT/RIGHT	-	-	-	-	1	1	-
7-20	220+42	STH 93, LT	W10-3	36X36	SIDE ROAD TRACKS LEFT/RIGHT	-	9.00	1	-	-	-	-
9-01R	254+67	STH 93, RT	I55-56	-	ADOPT-A-HIGHWAY	-	-	-	-	1	1	-
9-02R	254+67	STH 93, LT	I55-56	-	ADOPT-A-HIGHWAY	-	-	-	-	1	1	-
9-03R	261+57	STH 93, RT	M2-1	-	JUNCTION MARKER	-	-	-	-	1	1	-
9-04R	261+57	STH 93, RT	M1-5A	-	COUNTY MARKER	-	-	-	-	1	-	-
9-05	261+57	STH 93, RT	J1-1	24X39	JUNCTION OR END ASSEMBLY	6.50	-	-	1	-	-	-
9-06R	263+78	STH 93, LT	D7-68	-	ROAD TO COUNTY PARK 1 MILE	-	-	-	-	1	2	-
9-07R	263+78	STH 93, LT	DN5-69G	-	STANDARD SIGNS (CAMPING)	-	-	-	-	1	-	-
9-08	263+78	STH 93, LT	D7-67	60X36	COUNTY PARK 1 MILE	15.00	-	-	2	-	-	9-09
9-09	263+78	STH 93, LT	DN5-69G	48X9	STANDARD SIGNS (CAMPING)	3.00	-	-	-	-	-	9-08
SHEET 3												
					SHEET TOTALS =	110.61	57.00	10	14	29	28	

NOTE: ALL ITEMS ARE UNDER PROJECT ID 7130-00-74 UNLESS INDICATED OTHERWISE IN THE ITEM TABLE.

PERMANENT SIGNING - CONTINUED

SIGN NUMBER	STATION	LOCATION	SIGN CODE	SIZE	DESCRIPTION	SIGNS TYPE II REFLECTIVE H 637.2210 SF	SIGNS TYPE II REFLECTIVE F 637.2230 SF	POSTS WOOD 4X6-INCH 14-FT 634.0614 EACH	POSTS WOOD 4X6-INCH 16-FT 634.0616 EACH	REMOVING SIGNS TYPE II 638.2602 EACH	REMOVING SMALL SIGN SUPPORTS 638.3000 EACH	SIGN MOUNTED ON SAME POST AS
9-10	269+38	STH 93, LT	J4-1	24X36	REASSURRANCE ASSEMBLY	6.00	-	1	-	-	-	-
9-11R	271+50	CTH XX	M1-6	-	STATE ROUTE MARKER	-	-	-	-	1	1	-
9-12R	271+50	CTH XX	M6-4	-	ARROWS LEFT-RIGHT	-	-	-	-	1	-	-
9-13	271+50	CTH XX	J12-1	24X45	ROUTE TURN WITHOUT CARDINAL	7.50	-	-	1	-	-	-
9-14R	271+50	STH 93, RT	M1-5A	-	COUNTY MARKER	-	-	-	-	1	1	-
9-15R	271+50	STH 93, RT	M6-1	-	ARROW-LEFT/RIGHT/AHEAD	-	-	-	-	1	-	-
9-16	271+50	STH 93, RT	J12-1	24X45	ROUTE TURN WITHOUT CARDINAL	7.50	-	-	1	-	-	-
9-17R	271+50	CTH XX	R1-1	-	STOP SIGN	-	-	-	-	1	1	-
9-18	271+50	CTH XX	R1-1	30X30	STOP SIGN	5.18	-	1	-	-	-	-
9-19R	271+67	STH 93, RT	W1-7	-	NIGHT ARROW (DOUBLE)	-	-	-	-	1	1	-
9-20	271+67	STH 93, RT	W1-7	48X24	NIGHT ARROW (DOUBLE)	-	8.00	1	-	-	-	-
9-21R	272+52	STH 93, LT	M1-5A	-	COUNTY MARKER	-	-	-	-	1	1	-
9-22R	272+52	STH 93, LT	M6-1	-	ARROW-LEFT/RIGHT/AHEAD	-	-	-	-	1	-	-
9-23	272+52	STH 93, LT	J12-1	24X45	ROUTE TURN WITHOUT CARDINAL	7.50	-	-	1	-	-	-
9-24	272+81	STH 93, RT	J4-1	24X36	REASSURRANCE ASSEMBLY	6.00	-	1	-	-	-	-
10-01R	281+63	STH 93, LT	M2-1	-	JUNCTION MARKER	-	-	-	-	1	1	-
10-02R	281+63	STH 93, LT	M1-5A	-	COUNTY MARKER	-	-	-	-	1	-	-
10-03	281+63	STH 93, LT	J1-1	24X39	JUNCTION OR END ASSEMBLY	6.50	-	-	1	-	-	-
11-01R	324+24	STH 93, RT	W10-3	-	SIDE ROAD TRACKS LEFT/RIGHT	-	-	-	-	1	1	-
11-02	324+24	STH 93, RT	W10-3	36X36	SIDE ROAD TRACKS LEFT/RIGHT	-	9.00	1	-	-	-	-
11-03R	325+81	STH 93, RT	M1-94	-	ADVANCE CROSSROAD NAME	-	-	-	-	1	1	-
11-04	325+81	STH 93, RT	D1-1	66X15	DESTINATION/ARROWS	6.88	-	2	-	-	-	-
12-01R	333+04	CROSS RD	R1-1	-	STOP SIGN	-	-	-	-	1	1	-
12-02	333+04	CROSS RD	R1-1	30X30	STOP SIGN	5.18	-	1	-	-	-	-
12-03R	333+97	STH 93, LT	I55-56	-	ADOPT-A-HIGHWAY	-	-	-	-	1	1	-
12-04R	337+14	STH 93, RT	I55-56	-	ADOPT-A-HIGHWAY	-	-	-	-	1	1	-
12-05	337+14	STH 93, RT	I55-56	30X36	ADOPT-A-HIGHWAY	7.50	-	1	-	-	-	-
12-06R	339+63	STH 93, LT	M1-94	-	ADVANCE CROSSROAD NAME	-	-	-	-	1	1	-
12-07	339+63	STH 93, LT	D1-1	66X15	DESTINATION/ARROWS	6.88	-	2	-	-	-	-
12-08R	341+09	STH 93, LT	W10-3	-	SIDE ROAD TRACKS LEFT/RIGHT	-	-	-	-	1	1	-
12-09	341+09	STH 93, LT	W10-3	36X36	SIDE ROAD TRACKS LEFT/RIGHT	-	9.00	1	-	-	-	-
13-01R	374+62	STH 93, RT	M1-94	-	ADVANCE CROSSROAD NAME	-	-	-	-	1	1	-
13-02	374+62	STH 93, RT	D1-1	96X15	DESTINATION/ARROWS	10.00	-	-	2	-	-	-
13-03R	381+16	DORIS GUZA RD	R1-1	-	STOP SIGN	-	-	-	-	1	1	-
13-04	381+16	DORIS GUZA RD	R1-1	30X30	STOP SIGN	5.18	-	1	-	-	-	-
13-05R	388+38	STH 93, LT	M1-94	-	ADVANCE CROSSROAD NAME	-	-	-	-	1	2	-
13-06	388+38	STH 93, LT	D1-1	96X15	DESTINATION/ARROWS	10.00	-	-	2	-	-	-
14-01R	394+63	KUKA LN	R1-1	-	STOP SIGN	-	-	-	-	1	1	-
14-02	394+63	KUKA LN	R1-1	30X30	STOP SIGN	5.18	-	1	-	-	-	-
14-03R	400+73	STH 93, RT	W10-2	-	SIDE ROAD TRACKS LEFT/RIGHT	-	-	-	-	1	1	-
14-04	400+73	STH 93, RT	W10-2	36X36	SIDE ROAD TRACKS LEFT/RIGHT	-	9.00	1	-	-	-	-
14-05	400+73	STH 93	D1-1	66X15	DESTINATION/ARROWS	6.88	-	2	-	-	-	-
14-06R	408+17	JELEN LN	R1-1	-	STOP SIGN	-	-	-	-	1	1	-
14-07	408+17	JELEN LN	R1-1	30X30	STOP SIGN	5.18	-	1	-	-	-	-
14-08R	408+22	WALLACE LN	R1-1	-	STOP SIGN	-	-	-	-	1	1	-
14-09	408+22	WALLACE LN	R1-1	30X30	STOP SIGN	5.18	-	1	-	-	-	-
14-10R	410+95	STH 93, LT	W14-3	-	NO PASSING ZONE	-	-	-	-	1	1	-
14-11	410+95	STH 93, LT	W14-3	48X36	NO PASSING ZONE	-	6.00	1	-	-	-	-
14-12R	415+70	STH 93, RT	M2-1	-	JUNCTION MARKER	-	-	-	-	1	1	-
14-13R	415+70	STH 93, RT	M1-5A	-	COUNTY MARKER	-	-	-	-	1	-	-
SHEET 4					SHEET TOTALS =	120.21	41.00	20	8	27	23	

NOTE: ALL ITEMS ARE UNDER PROJECT ID 7130-00-74 UNLESS INDICATED OTHERWISE IN THE ITEM TABLE.

PERMANENT SIGNING - CONTINUED

SIGN NUMBER	STATION	LOCATION	SIGN CODE	SIZE	DESCRIPTION	SIGNS TYPE II REFLECTIVE H 637.2210 SF	SIGNS TYPE II REFLECTIVE F 637.2230 SF	POSTS WOOD 4X6-INCH 14-FT 634.0614 EACH	POSTS WOOD 4X6-INCH 16-FT 634.0616 EACH	REMOVING SIGNS TYPE II 638.2602 EACH	REMOVING SMALL SIGN SUPPORTS 638.3000 EACH	SIGN MOUNTED ON SAME POST AS
14-14	415+70	STH 93, RT	J1-1	24X39	JUNCTION OR END ASSEMBLY	6.50	-	-	1	-	-	-
14-15	415+72	STH 93, LT	D1-1	66X15	DESTINATION/ARROWS	6.88	-	2	-	-	-	-
14-16R	415+72	STH 93, LT	W10-2	-	SIDE ROAD TRACKS LEFT/RIGHT	-	-	-	-	1	1	-
14-17	415+72	STH 93, LT	W10-2	36X36	SIDE ROAD TRACKS LEFT/RIGHT	-	9.00	1	-	-	-	-
15-01R	417+84	STH 93, RT	W3-5	-	SPEED LIMIT AHEAD	-	-	-	-	1	1	-
15-02	417+84	STH 93, RT	W3-5	36X36	SPEED LIMIT AHEAD	-	9.00	1	-	-	-	-
15-03R	422+17	STH 93, LT	M3-3	-	CARDINAL ROUTE MARKER	-	-	-	-	1	1	-
15-04R	422+17	STH 93, LT	M1-6	-	STATE ROUTE MARKER	-	-	-	-	1	-	-
15-05	422+17	STH 93, LT	J4-1	24X36	REASSURANCE ASSEMBLY	6.00	-	1	-	-	-	-
15-06R	423+88	STH 93, LT	R2-1	-	SPEED LIMIT	-	-	-	-	1	1	-
15-07	423+88	STH 93, LT	R2-1	24X30	SPEED LIMIT	5.00	-	1	-	-	-	-
15-08R	423+88	STH 93, RT	R2-1	-	SPEED LIMIT	-	-	-	-	1	1	-
15-09	423+88	STH 93, RT	R2-1	24X30	SPEED LIMIT	5.00	-	1	-	-	-	-
15-10R	425+30	STH 93, RT	M1-5A	-	COUNTY MARKER	-	-	-	-	1	1	-
15-11R	425+30	STH 93, RT	M6-1	-	ARROW-LEFT/RIGHT/AHEAD	-	-	-	-	1	-	-
15-12	425+30	STH 93, RT	J12-1	24X45	ROUTE TURN WITHOUT CARDINAL	7.50	-	-	1	-	-	-
15-13R	425+37	CTH X	J12-1	-	ROUTE TURN WITHOUT CARDINAL	-	-	-	-	1	1	-
15-14	425+37	CTH X	J12-1	24X45	ROUTE TURN WITHOUT CARDINAL	7.50	-	-	1	-	-	-
15-15R	425+37	CTH X	R1-1	-	STOP SIGN	-	-	-	-	1	1	-
15-16	425+37	CTH X	R1-1	30X30	STOP SIGN	5.18	-	1	-	-	-	-
15-17R	425+70	CTH X	M1-5A	-	COUNTY MARKER	-	-	-	-	1	1	-
15-18	425+70	CTH X	M1-5A	24X24	COUNTY MARKER	4.00	-	1	-	-	-	-
15-19R	426+55	STH 93, LT	M1-5A	-	COUNTY MARKER	-	-	-	-	1	1	-
15-20R	425+55	STH 93, LT	M6-1	-	ARROW-LEFT/RIGHT/AHEAD	-	-	-	-	1	-	-
15-21	425+55	STH 93, LT	J12-1	24X45	ROUTE TURN WITHOUT CARDINAL	7.50	-	-	1	-	-	-
15-22	427+29	STH 93, RT	J4-1	24X36	REASSURANCE ASSEMBLY	6.00	-	1	-	-	-	-
15-23	430+00	STH 93, LT	R3-8-D	36X30	VARIOUS ONLYS	7.50	-	1	-	-	-	-
15-24R	430+72	STARWOOD LN	R1-1	-	STOP SIGN	-	-	-	-	1	1	-
15-25	430+72	STARWOOD LN	R1-1	30X30	STOP SIGN	5.18	-	1	-	-	-	-
15-26R	432+40	STH 93, RT	R2-1	-	SPEED LIMIT	-	-	-	-	1	1	-
15-27	432+40	STH 93, RT	R2-1	24X30	SPEED LIMIT	5.00	-	1	-	-	-	-
15-28	433+44	STH 93, LT	R3-8-E	36X30	VARIOUS ONLYS	7.50	-	1	-	-	-	-
15-29R	435+00	STH 93, LT	M2-1	-	JUNCTION MARKER	-	-	-	-	1	1	-
15-30R	435+00	STH 93, LT	M1-5A	-	COUNTY MARKER	-	-	-	-	1	-	-
15-31	435+00	STH 93, LT	J1-1	24X39	JUNCTION OR END ASSEMBLY	6.50	-	-	1	-	-	-
15-32R	435+40	STH 93, RT	I-2-3	-	COMMUNITY POPULATION NAME	-	-	-	-	1	2	-
15-33	435+40	STH 93, RT	I-2-3	90X24	COMMUNITY POPULATION NAME	15.00	-	-	2	-	-	-
15-34R	436+90	STH 93, LT	D2-2	-	DESTINATION/DISTANCE	-	-	-	-	1	2	-
15-35	436+90	STH 93, LT	D2-2	84X24	DESTINATION/DISTANCE	14.00	-	-	2	-	-	-
15-36R	439+23	STH 93, LT	R2-1	-	SPEED LIMIT	-	-	-	-	1	1	-
15-37	439+23	STH 93, LT	R2-1	24X30	SPEED LIMIT	5.00	-	1	-	-	-	-
15-37R	439+29	STH 93, RT	W3-5	-	SPEED LIMIT AHEAD	-	-	-	-	1	1	-
15-39	439+29	STH 93, RT	W3-5	36X36	SPEED LIMIT AHEAD	-	9.00	1	-	-	-	-
15-40	441+45	STH 93, LT	R3-8-E	36X30	VARIOUS ONLYS	7.50	-	1	-	-	-	-
16-01	448+93	STH 93, LT	R3-8-E	36X30	VARIOUS ONLYS	7.50	-	-	-	-	-	ESTR
SHEET 5					SHEET TOTALS =	147.74	27.00	17	9	21	19	
					PROJECT TOTALS =	578	246	82	45	129	111	

NOTE: ALL ITEMS ARE UNDER PROJECT ID 7130-00-74 UNLESS INDICATED OTHERWISE IN THE ITEM TABLE.

PAVEMENT MARKINGS

STATION TO	STATION	LOCATION	MARKING LINE EPOXY 4-INCH 646.1020 SOLID YELLOW LF	MARKING LINE EPOXY 4-INCH 646.1020 DASHED YELLOW LF	MARKING SAME DAY EPOXY 4-INCH 646.4520 SOLID YELLOW LF	MARKING SAME DAY EPOXY 4-INCH 646.4520 DASHED YELLOW LF	MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH 646.1040 SOLID WHITE LF	4-INCH 646.1040 DASHED WHITE LF	4-INCH 646.1040 DOTTED WHITE LF	MARKING LINE GROOVED WET REFLECTIVE EPOXY 8-INCH 646.3040 SOLID WHITE LF	8-INCH 646.3040 DASHED WHITE LF	MARKING RAILROAD CROSSING EPOXY 646.5320 EACH	MARKING ARROWS EPOXY 646.5020 EACH	MARKING WORDS EPOXY 646.5120 EACH	MARKING STOP LINE EPOXY 12-INCH 646.6020 LF	MARKING DIAGONAL EPOXY 12-INCH YELLOW 646.7120 LF	MARKING CHEVRON EPOXY 24-INCH WHITE 646.7220 LF
27+94	30+62	STH 93, C/L	-	-	268	67	-	-	-	-	-	-	-	-	-	-	-
30+62	56+72	STH 93, C/L	-	419	-	653	-	-	-	-	-	-	-	-	-	-	-
56+72	67+73	STH 93, C/L	884	221	1101	275	-	-	-	-	-	-	-	-	-	-	-
67+73	78+47	STH 93, C/L	1178	-	2146	-	-	-	-	-	-	-	-	-	-	-	-
78+47	90+65	STH 93, C/L	703	176	1218	305	-	-	-	-	-	-	-	-	-	-	-
90+65	131+60	STH 93, C/L	6204	-	8190	-	-	-	-	-	-	-	-	-	-	-	-
131+60	140+97	STH 93, C/L	938	235	938	235	-	-	-	-	-	-	-	-	-	-	-
140+97	195+21	STH 93, C/L	-	1306	-	1356	-	-	-	-	-	-	-	-	-	-	-
195+21	202+90	STH 93, C/L	536	134	769	192	-	-	-	-	-	-	-	-	-	-	-
202+90	205+54	STH 93, C/L	-	-	-	66	-	-	-	-	-	-	-	-	-	-	-
205+54	213+40	STH 93, C/L	608	152	786	196.5	-	-	-	-	-	-	-	-	-	-	-
213+40	410+92	STH 93, C/L	-	3993	-	4937	-	-	-	-	-	-	-	-	-	-	-
410+92	420+91	STH 93, C/L	1000	250	1000	250	-	-	-	-	-	-	-	-	-	-	-
420+91	429+94	STH 93, C/L	580	-	2223	-	-	-	-	-	-	-	-	-	-	35	-
430+95	443+99	STH 93, C/L	-	-	2865	-	-	-	-	-	-	-	-	-	-	30	-
444+61	449+15	STH 93, C/L	-	-	908	-	-	-	-	-	-	-	-	-	-	-	-
38+50	66+75	STH 93, RT	-	-	-	-	2826	-	-	-	-	-	-	-	-	-	-
38+50	114+85	STH 93, LT	-	-	-	-	7644	-	-	-	-	1	-	-	-	-	-
64+75	66+75	STH 93, RT	-	-	-	-	-	-	-	200	-	-	-	-	-	-	-
66+56	68+04	STH 93, LT	-	-	-	-	-	37	-	-	-	-	-	-	-	-	-
68+16	76+89	STH 93, RT	-	-	-	-	878	-	-	-	-	-	-	-	-	-	-
74+91	76+89	STH 93, RT	-	-	-	-	-	-	-	200	-	-	-	-	-	-	-
78+26	84+97	STH 93, RT	-	-	-	-	675	-	-	-	-	-	-	-	-	-	-
84+97	86+48	STH 93, RT	-	-	-	-	-	-	37.5	-	-	-	-	-	-	-	-
86+13	88+63	STH 93, LT	-	-	-	-	-	62.5	-	-	-	-	-	-	-	-	-
87+76	212+27	STH 93, RT	-	-	-	-	12442	-	-	-	-	1	-	-	-	-	-
113+96	116+46	STH 93, RT	-	-	-	-	-	62.5	-	-	-	-	-	-	-	-	-
116+27	118+27	STH 93, LT	-	-	-	-	-	-	-	200	-	-	-	-	-	-	-
116+27	203+38	STH 93, LT	-	-	-	-	8709	-	-	-	-	-	-	-	-	-	-
204+66	205+38	STH 93, LT	-	-	-	-	-	-	17.75	-	-	-	-	-	-	-	-
205+38	271+19	STH 93, LT	-	-	-	-	6580	-	-	-	-	-	-	-	-	-	-
213+01	331+25	STH 93, RT	-	-	-	-	11820	-	-	-	-	-	-	-	-	-	-
272+48	273+76	STH 93, LT	-	-	-	-	-	-	31.75	-	-	-	-	-	-	-	-
273+76	380+94	STH 93, LT	-	-	-	-	10728	-	-	-	-	-	-	-	-	-	-
331+25	332+24	STH 93, RT	-	-	-	-	-	-	24.75	-	-	-	-	-	-	-	-
332+83	332+92	CROSS RD	-	-	-	-	-	-	-	-	-	-	-	-	9	-	-
333+32	429+46	STH 93, RT	-	-	-	-	9615	-	-	-	-	-	-	-	-	-	-
381+90	382+78	STH 93, LT	-	-	-	-	-	-	22.25	-	-	-	-	-	-	-	-
382+78	394+32	STH 93, LT	-	-	-	-	1156	-	-	-	-	-	-	-	-	-	-
395+30	396+30	STH 93, LT	-	-	-	-	-	-	25	-	-	-	-	-	-	-	-
396+30	408+00	STH 93, LT	-	-	-	-	1171	-	-	-	-	-	-	-	-	-	-
408+87	409+74	STH 93, LT	-	-	-	-	-	-	21.75	-	-	-	-	-	-	-	-
409+74	425+11	STH 93, LT	-	-	-	-	1533	-	-	-	-	-	-	-	-	-	-
426+48	428+50	STH 93, LT	-	-	-	-	-	-	-	411	-	-	1	-	-	-	54
426+48	443+65	STH 93, LT	-	-	-	-	1718	-	-	-	-	-	-	-	-	-	-
428+50	430+05	STH 93, LT	-	-	-	-	-	-	38.25	-	-	-	-	-	-	-	-
430+95	443+65	STH 93, RT	-	-	-	-	1267	-	-	-	-	-	-	-	-	-	-
430+95	433+45	STH 93, LT	-	-	-	-	-	-	-	250	-	-	2	1	-	-	-
433+45	443+65	STH 93, LT	-	-	-	-	-	-	-	-	256.5	-	2	1	-	-	-
444+61	445+61	STH 93, LT	-	-	-	-	-	-	-	100	-	-	2	-	-	-	-
445+61	447+53	STH 93, LT	-	-	-	-	-	-	-	-	47.75	-	-	-	-	-	-
		TOTALS =	19516		30944		79143			1665		2	7	2	9	65	54

NOTE: ALL ITEMS ARE UNDER PROJECT ID 7130-00-74 UNLESS INDICATED OTHERWISE IN THE ITEM TABLE.

3

SPECIAL 01. DITCH CLEANING

STATION TO STATION	LOCATION	SPV.0060.01 EACH
UNDISTRIBUTED	STH 93	30

HMA PERCENT WITHIN LIMITS (PWL) TEST STRIP

STATION TO STATION	LOCATION	VOLUMETRICS SPV.0060.02 EACH	DENSITY SPV.0060.03 EACH
27+94 - 443+66	STH 93	2	1

SPECIAL 01. MILLING AND REMOVING TEMPORARY JOINT

STATION TO STATION	LOCATION	SPV.0105.01 LS
27+94 - 443+65	STH 93	1

SPECIAL 02. MATERIAL TRANSFER VEHICLE

STATION TO STATION	LOCATION	SPV.0105.02 LS
27+94 - 443+65	STH 93	1

SPECIAL 01. REHEATING HMA LONGITUDINAL JOINT

STATION TO STATION	LOCATION	SPV.0170.01 STA
27+94 - 443+65	STH 93	416

Station TO Station	Location	205.0100 Common Excavation (1)		Salvaged/Unusable Pavement Material (4)	Available Material (5)	205.0200 Rock Excavation (6)	Expanded Rock (7)	Unexpanded Fill	Expanded Fill (8)	Mass Ordinate +/- (9)	Waste	208.0100 Borrow (10)	Comment:
		Cut (2)	EBS Excavation (3)				Factor 1.05		Factor 1.25				
08+41.12 - 09+80	CTH X, LT	133	0	0	133	0	0	0	0	133	133	0	
425+74.88 - 443+65.34	STH 93, LT	3,821	0	0	3,821	813	853	515	-423	4,244	4,244	0	
Total		3,954	0	0	3,954	813	853	515	-423	4,377	4,377	0	

Notes:

(1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100

(2) Salvaged/Unsuable Pavement Material is included in Cut.

(3) EBS Excavation to be backfilled with Select Borrow material. Note: this is designers choice, can be backfilled with Borrow, or Cut as well.

(4) Salvaged/Unusable Pavement Material

(5) Available Material = Cut - Salvaged/Unusuable Pavement Material

(6) Rock Excavation item number 205.0200

(7) Expanded Rock Factor = 1.05

(8) Expanded Fill Factor = 1.25

(9) 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.

(10) Use 4377 CY of material from Division 1. Borrow Excavation item number 208.0100

TRANSPORTATION PROJECT PLAT NO: 7130-00-24 - 4.01

PART OF THE SE 1/4 - NW 1/4 OF SECTION 10, T 21 N, R 9 W, TOWN OF ARCADIA, TREMPEALEAU COUNTY, WISCONSIN.

RELOCATION ORDER STH 93 CENTERVILLE - INDEPENDENCE (STH 95 TO 'A' STREET)

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 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 DEPARTMENT OF TRANSPORTATION 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 STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

Accepted for Recording and Filing in The Office of the Register of Deeds in Trempealeau County, Wisconsin at 11:19 AM on January 20, 2017 as Document # 444145 and filed in: Plat Cab A page 127

Rose Ottum
Trempealeau County
Register of Deeds

93

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 7130-00-24 - 4.01
AMENDMENT NO:___

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW SF	R/W EXISTING SF	R/W TOTAL SF	TLE SF
1	EDWIN J. MALISZEWSKI	TLE	0	0	0	1600.84
2	EDWIN J. MALISZEWSKI	FEE & TLE	1249.45	0	1249.45	1204.02
3	DEBRA M. MALISZEWSKI TESTAMENTARY TRUST	FEE & TLE	1249.00	0	1249.00	622.95

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), TREMPEALEAU COUNTY, NAD83 (1991) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 3/4"X24" IRON REBARS) UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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

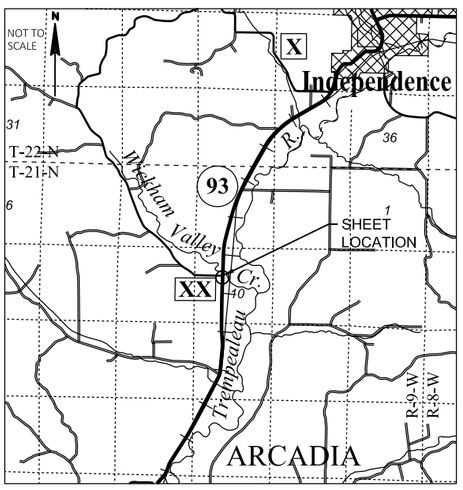
DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

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

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

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: RIGHT-OF-WAY FOR STH 93 ESTABLISHED FROM PREVIOUS RW PLAT 7130-03-21. RIGHT-OF-WAY FOR CTH XX ESTABLISHED FROM CENTERLINE OF EXISTING PAVEMENT AND AS SHOWN ON RW PLAT 7130-03-21.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN EAU CLAIRE.



UTILITY INTERESTS REQUIRED

UTILITY NO.	OWNER	INTEREST REQUIRED
41	TRI-COUNTY COMMUNICATIONS COOPERATIVE	RELEASE OF RIGHTS
42	RIVERLAND ENERGY COOPERATIVE	RELEASE OF RIGHTS
43	DAIRYLAND POWER COOPERATIVE	RELEASE OF RIGHTS

UTILITY EASEMENT INFORMATION

OWNER(S)	RECORDING INFORMATION	UTILITY NO.	LOCATED IN R/W PARCEL NO.
TREMPEALEAU ELECTRIC COOPERATIVE	DOC. 124506, V. 96, P. 557	42	1, 2
WISCONSIN POWER COOPERATIVE	DOC. 121290, V. 97, P. 7	43	1, 2
TRI-COUNTY COMMUNICATIONS COOPERATIVE	DOC. 413059, V. 911, P. 444	41	1, 2
WISCONSIN POWER COOPERATIVE	DOC. 121291, V. 97, P. 8	43	3
TREMPEALEAU ELECTRIC COOPERATIVE	DOC. 242489, V. 291, P. 264	42	3

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.	CURVE DATA	
HIGHWAY EASEMENT	H.E.	LONG CHORD	LCH
LAND CONTRACT	LC	LONG CHORD BEARING	LCB
MONUMENT	MON.	RADIUS	R
PAGE	P.	DEGREE OF CURVE	D
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA
PROPERTY LINE	PL	LENGTH OF CURVE	L
RECORDED AS	(100')	TANGENT	TAN
REFERENCE LINE	R/L		

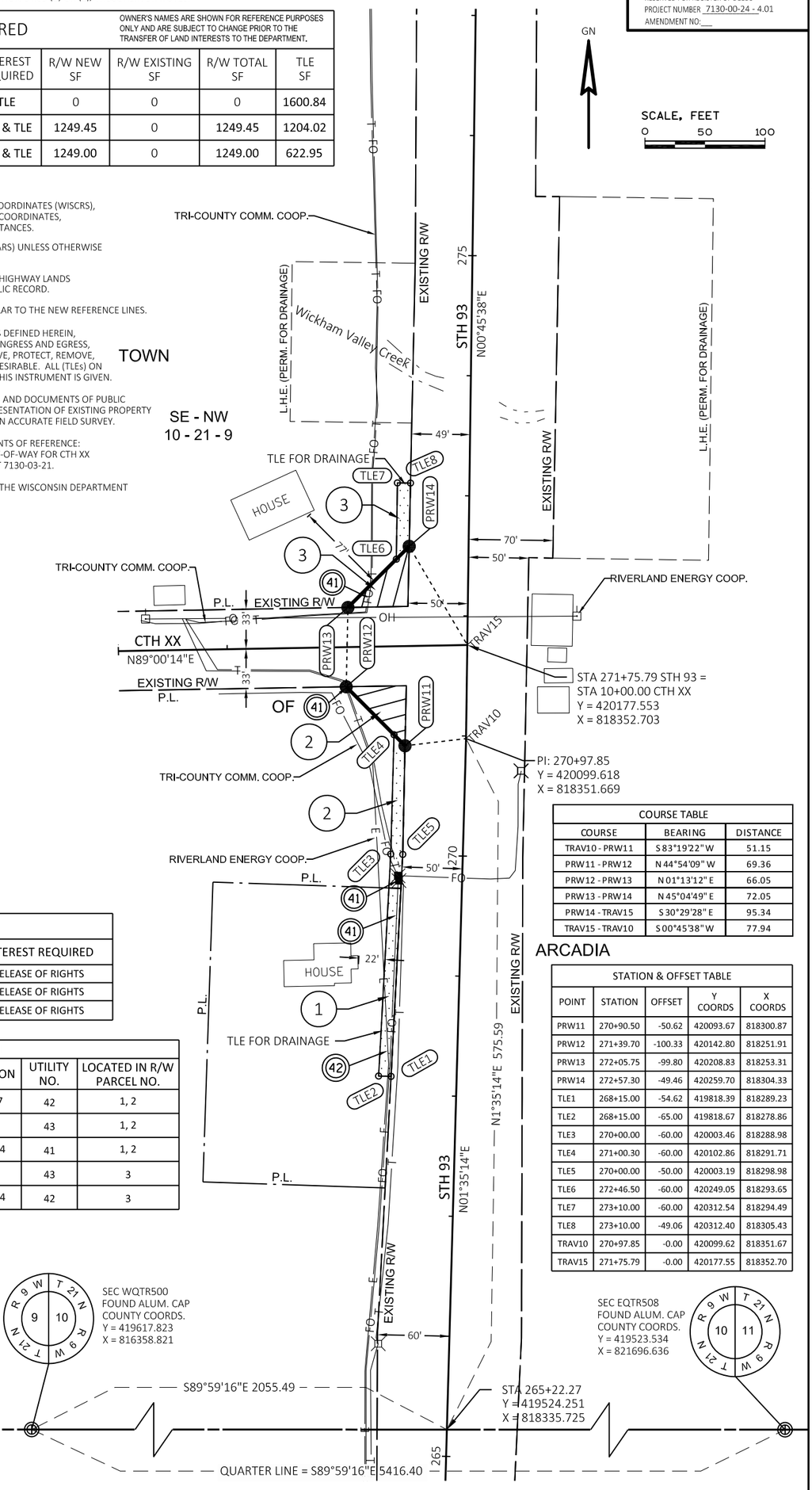
CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN — ⅝" (1" UNLESS NOTED)
R/W MONUMENT — ●(SET)
R/W STANDARD — ▲(SET)
SIGN — SIGN
SECTION CORNER MONUMENT
SECTION CORNER SYMBOL
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT — TLE(PRW20)
PERMANENT LIMITED EASEMENT
R/W BOUNDARY POINT — PRW20
PARCEL NUMBER — 102
UTILITY INTEREST — 40
SIGN NUMBER (OFF PREMISE) — 21-1
BUILDING

PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
LOT & TIE LINES
SLOPE INTERCEPTS
CORPORATE LIMITS
NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)
ACCESS RESTRICTED (BY ACQUISITION)
NO ACCESS (BY STATUTORY AUTHORITY)
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
EXISTING CENTERLINE
PROPOSED REFERENCE LINE
PARALLEL OFFSET

CONVENTIONAL UTILITY SYMBOLS

	NON COMPENSABLE	COMPENSABLE
WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES	OH	
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

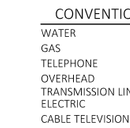


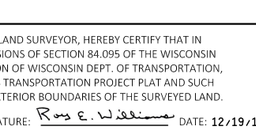
COURSE TABLE

COURSE	BEARING	DISTANCE
TRAV10 - PRW11	S 83°19'22" W	51.15
PRW11 - PRW12	N 44°54'09" W	69.36
PRW12 - PRW13	N 01°13'12" E	66.05
PRW13 - PRW14	N 45°04'49" E	72.05
PRW14 - TRAV15	S 30°29'28" E	95.34
TRAV15 - TRAV10	S 00°45'38" W	77.94

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS
PRW11	270+90.50	-50.62	420093.67	818300.87
PRW12	271+39.70	-100.33	420142.80	818251.91
PRW13	272+05.75	-99.80	420208.83	818253.31
PRW14	272+57.30	-49.46	420259.70	818304.33
TLE1	268+15.00	-54.62	419818.39	818289.23
TLE2	268+15.00	-65.00	419818.67	818278.86
TLE3	270+00.00	-60.00	420003.46	818288.98
TLE4	271+00.30	-60.00	420102.86	818291.71
TLE5	270+00.00	-50.00	420003.19	818298.98
TLE6	272+46.50	-60.00	420249.05	818293.65
TLE7	273+10.00	-60.00	420312.54	818294.49
TLE8	273+10.00	-49.06	420312.40	818305.43
TRAV10	270+97.85	-0.00	420099.62	818351.67
TRAV15	271+75.79	-0.00	420177.55	818352.70





I, ROY E. WILLIAMS, 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 WISCONSIN DEPT. OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: Roy E. Williams DATE: 12/19/16
PRINT NAME: ROY E. WILLIAMS
REGISTRATION NUMBER: S1354

WISCONSIN ROY E. WILLIAMS S-1354 SOUTH RANGE WI LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

SIGNATURE: Michael Piller DATE: 01/19/17
PRINT NAME: MICHAEL PILLER

PLOT SCALE : 1:100_XREF
PLOT NAME : W:\NWBE_PROJECTS\DESIGN\1610_STH93 TREMPEALEAU CO\C3D_2014\SHEETSPLAN\040401_RP.DWG
PLOT BY : User
PLOT DATE : 1/5/2017 2:40 PM
FILE NAME : APPRAISAL PLAT DATE :

TRANSPORTATION PROJECT PLAT NO: 7130-00-27-4.01

THAT PART OF SE 1/4 OF THE SE 1/4 OF SECTION 26, TOWNSHIP 22 NORTH, RANGE 9 WEST, LOCATED IN THE TOWN OF BURNSIDE, TREMPEALEAU COUNTY, WISCONSIN.

RELOCATION ORDER STH 93, CENTERVILLE-INDEPENDENCE (CTH X-A STREET), TREMPEALEAU COUNTY

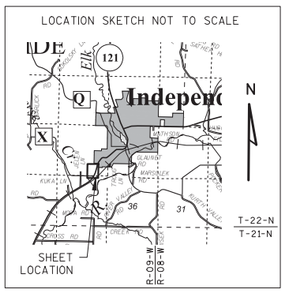
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN 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 DEPARTMENT OF TRANSPORTATION 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 STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

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.

ALL TLES ARE FOR SLOPE GRADING PURPOSES

LOCATION SKETCH NOT TO SCALE



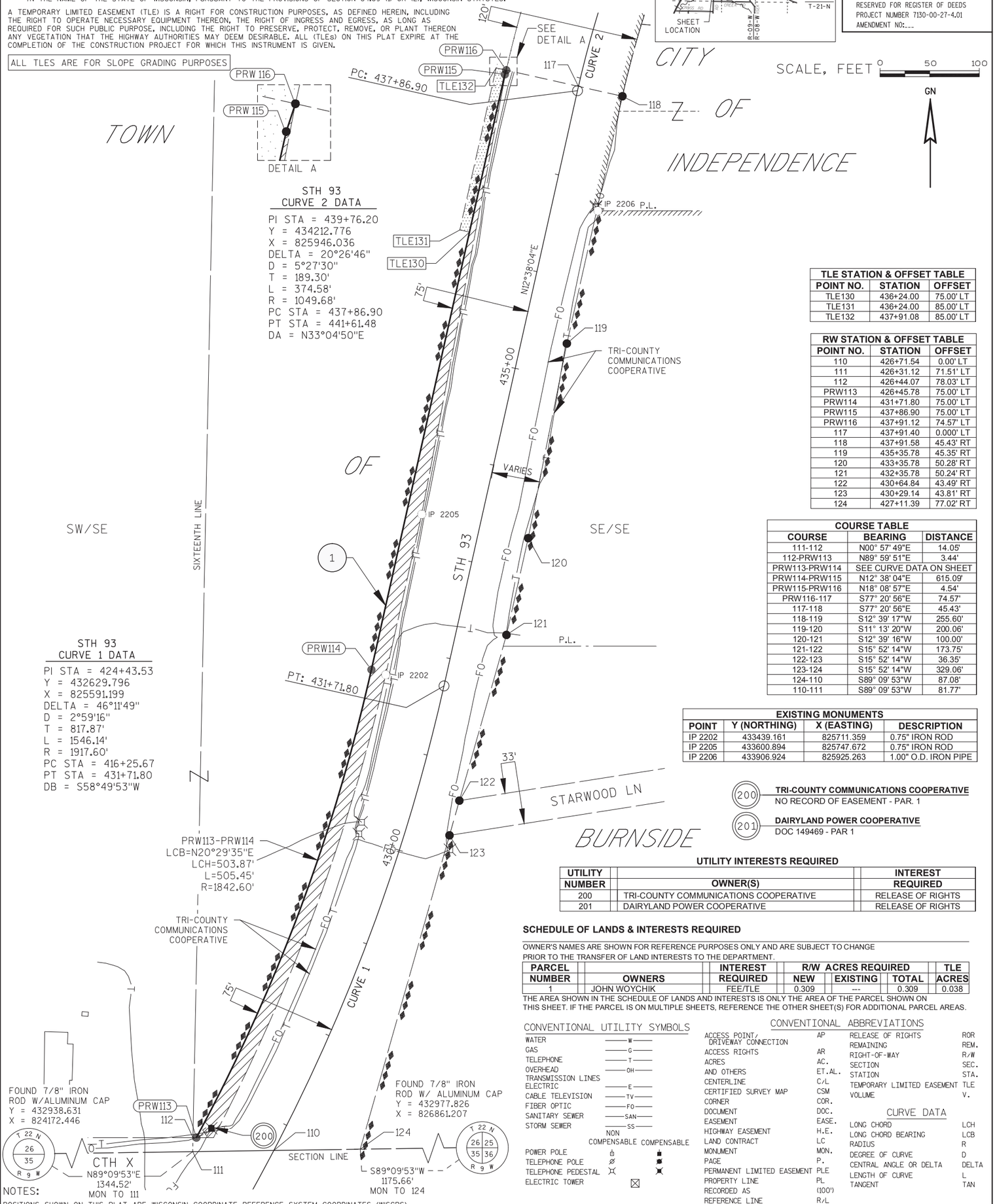
RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 7130-00-27-4.01
AMENDMENT NO:___

94

7130-00-27-4.01

SCALE, FEET 0 50 100

GN



STH 93 CURVE 2 DATA

PI STA = 439+76.20
Y = 434212.776
X = 825946.036
DELTA = 20°26'46"
D = 5°27'30"
T = 189.30'
L = 374.58'
R = 1049.68'
PC STA = 437+86.90
PT STA = 441+61.48
DA = N33°04'50"E

STH 93 CURVE 1 DATA

PI STA = 424+43.53
Y = 432629.796
X = 825591.199
DELTA = 46°11'49"
D = 2°59'16"
T = 817.87'
L = 1546.14'
R = 1917.60'
PC STA = 416+25.67
PT STA = 431+71.80
DB = S58°49'53"W

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE130	436+24.00	75.00' LT
TLE131	436+24.00	85.00' LT
TLE132	437+91.08	85.00' LT

RW STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
110	426+71.54	0.00' LT
111	426+31.12	71.51' LT
112	426+44.07	78.03' LT
PRW113	426+45.78	75.00' LT
PRW114	431+71.80	75.00' LT
PRW115	437+86.90	75.00' LT
PRW116	437+91.12	74.57' LT
117	437+91.40	0.000' LT
118	437+91.58	45.43' RT
119	435+35.78	45.35' RT
120	433+35.78	50.28' RT
121	432+35.78	50.24' RT
122	430+64.84	43.49' RT
123	430+29.14	43.81' RT
124	427+11.39	77.02' RT

COURSE TABLE		
COURSE	BEARING	DISTANCE
111-112	N00° 57' 49"E	14.05'
112-PRW113	N89° 59' 51"E	3.44'
PRW113-PRW114	SEE CURVE DATA ON SHEET	
PRW114-PRW115	N12° 38' 04"E	615.09'
PRW115-PRW116	N18° 08' 57"E	4.54'
PRW116-117	S77° 20' 56"E	74.57'
117-118	S77° 20' 56"E	45.43'
118-119	S12° 39' 17"W	255.60'
119-120	S11° 13' 20"W	200.06'
120-121	S12° 39' 16"W	100.00'
121-122	S15° 52' 14"W	173.75'
122-123	S15° 52' 14"W	36.35'
123-124	S15° 52' 14"W	329.06'
124-110	S89° 09' 53"W	87.08'
110-111	S89° 09' 53"W	81.77'

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP 2202	433439.161	825711.359	0.75" IRON ROD
IP 2205	433600.894	825747.672	0.75" IRON ROD
IP 2206	433906.924	825925.263	1.00" O.D. IRON PIPE

(200) **TRI-COUNTY COMMUNICATIONS COOPERATIVE**
NO RECORD OF EASEMENT - PAR. 1

(201) **DAIRYLAND POWER COOPERATIVE**
DOC 149469 - PAR 1

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	TRI-COUNTY COMMUNICATIONS COOPERATIVE	RELEASE OF RIGHTS
201	DAIRYLAND POWER COOPERATIVE	RELEASE OF RIGHTS

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
1	JOHN WOYCHIK	FEE/TLE	0.309	---	0.309	0.038

THE AREA SHOWN IN THE SCHEDULE OF LANDS AND INTERESTS IS ONLY THE AREA OF THE PARCEL SHOWN ON THIS SHEET. IF THE PARCEL IS ON MULTIPLE SHEETS, REFERENCE THE OTHER SHEET(S) FOR ADDITIONAL PARCEL AREAS.

CONVENTIONAL UTILITY SYMBOLS

WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES	OH	
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

CONVENTIONAL ABBREVIATIONS

ACCESS POINT, DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	R/L		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	⌀ (1" UNLESS NOTED)	PROPOSED R/W LINE	
	○ (SET)	EXISTING H.E. LINE	
R/W MONUMENT	▲ (SET)	PROPERTY LINE	
R/W STANDARD		LOT & TIE LINES	
SIGN	SIGN	SLOPE INTERCEPTS	
SECTION CORNER MONUMENT		CORPORATE LIMITS	
SECTION CORNER SYMBOL		NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	
FEE (HATCH VARIES)		NO ACCESS (BY ACQUISITION)	
TEMPORARY LIMITED EASEMENT		NO ACCESS (BY STATUTORY AUTHORITY)	
PERMANENT LIMITED EASEMENT		SECTION LINE	
R/W BOUNDARY POINT	RWB20	QUARTER LINE	
PARCEL NUMBER	102	SIXTEENTH LINE	
UTILITY NUMBER	92	EXISTING CENTERLINE	
SIGN NUMBER (OFF PREMISE)	21-1	PROPOSED REFERENCE LINE	
BUILDING		PARALLEL OFFSET	

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), TREMPEALEAU COUNTY, NAD 83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES. GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

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

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICALLY 3/4" X 24" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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

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

EXISTING ACCESS CONTROL IS ESTABLISHED PER RW PLAT 7130-03-21.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN EAU CLAIRE.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 93 & CTH X WAS ESTABLISHED FROM RW PLAT: 7130-03-21, 7130-08-21, P.O.S. DATED 3/18/2015 & CENTERLINE OF EXISTING PAVEMENTS.

emcs inc

I, TIMOTHY G. RUTZEN JR. PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT COMPLIANCE WITH IN FULL THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE_DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 7130-00-27-4.01 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE: 5-2-2017

TIMOTHY G. RUTZEN JR.
PROFESSIONAL LAND SURVEYOR NUMBER 2994

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

DATE: 5-2-2017

(SIGNATURE)

(PRINTED NAME) Michael Piller

WISCONSIN TIMOTHY G. RUTZEN, JR. S-2994 MOSINEE, WISCONSIN LAND SURVEYOR

FILE NAME : P:\49XX\4970.495\DWG\SP.16.STH93.TRE\CADDS\7130007\SHEETSPLAN\040101-RP.DWG
PLOT DATE : 3/24/2017 8:42 AM
PLOT BY : Tim Rutzen
PLOT NAME : PLOT SCALE : ##########
APPRAISAL PLAT DATE :

TRANSPORTATION PROJECT PLAT NO: 7130-00-27-4.02

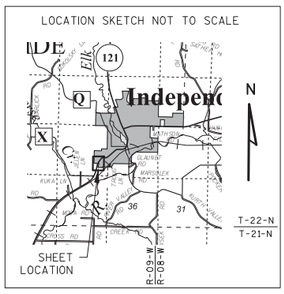
THAT PART OF SE 1/4 OF THE SE 1/4 OF SECTION 26, TOWNSHIP 22 NORTH, RANGE 9 WEST, TOWN OF BURNSIDE; ALSO PART OF THE NE 1/4 OF THE SE 1/4 OF SECTION 26, TOWNSHIP 22 NORTH, RANGE 9 WEST, LOCATED IN THE CITY OF INDEPENDENCE, ALL LOCATED IN TREMPEALEAU COUNTY, WISCONSIN.

RELOCATION ORDER STH 93, CENTERVILLE-INDEPENDENCE (CTH X-A STREET), TREMPEALEAU COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 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 DEPARTMENT OF TRANSPORTATION 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 STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

LOCATION SKETCH NOT TO SCALE



RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 7130-00-27-4.02
AMENDMENT NO:___

95

7130-00-27-4.02

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL		INTEREST	R/W ACRES REQUIRED			TLE
NUMBER	OWNERS	REQUIRED	NEW	EXISTING	TOTAL	ACRES
1	JOHN WOYCHIK	TLE	---	---	---	0.052
2	CITY OF INDEPENDENCE	TLE	---	---	---	0.070

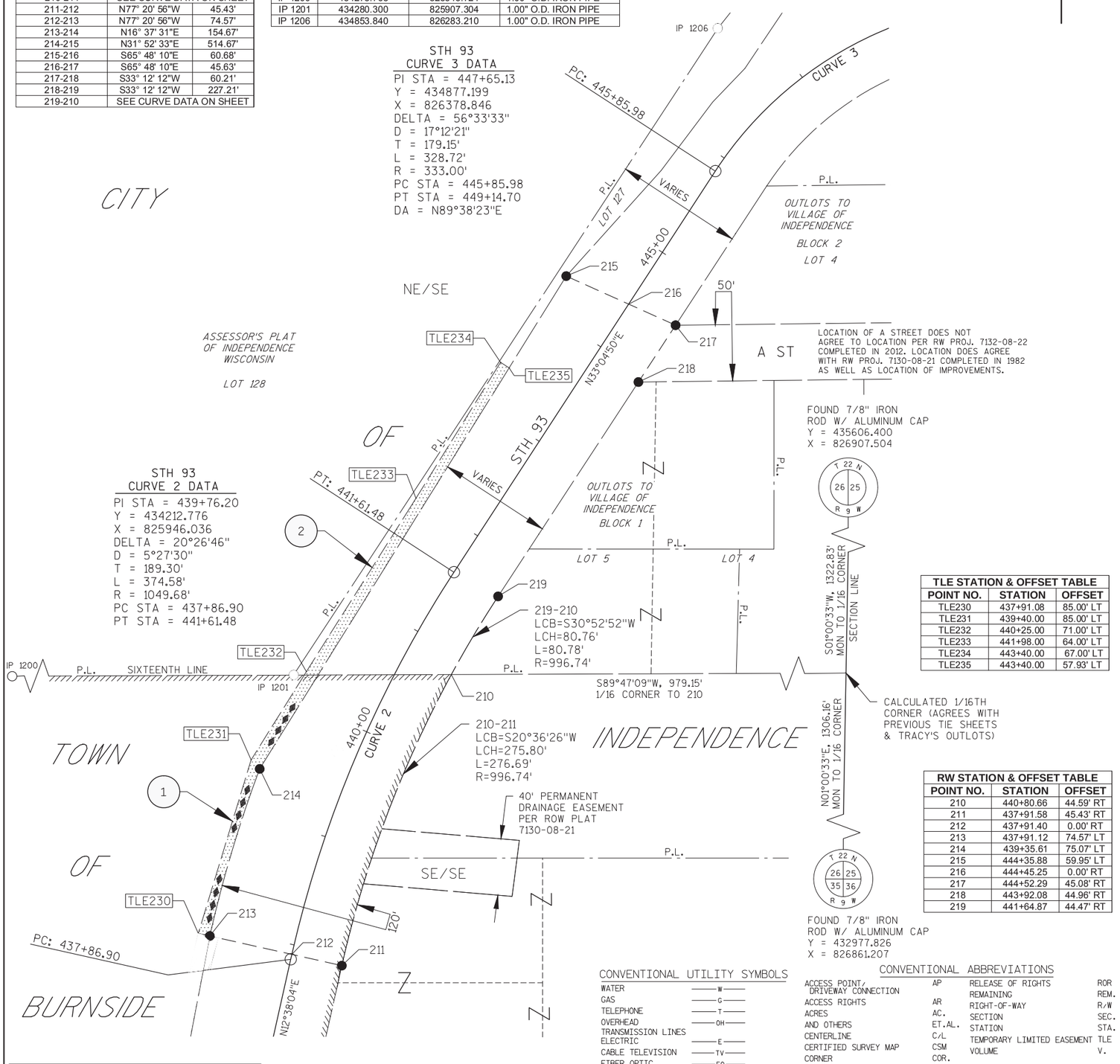
THE AREA SHOWN IN THE SCHEDULE OF LANDS AND INTERESTS IS ONLY THE AREA OF THE PARCEL SHOWN ON THIS SHEET. IF THE PARCEL IS ON MULTIPLE SHEETS, REFERENCE THE OTHER SHEET(S) FOR ADDITIONAL PARCEL AREAS.

SCALE, FEET 0 50 100

GN

COURSE TABLE		
COURSE	BEARING	DISTANCE
210-211	SEE CURVE DATA ON SHEET	
211-212	N77° 20' 56"W	45.43'
212-213	N77° 20' 56"W	74.57'
213-214	N16° 37' 31"E	154.67'
214-215	N31° 52' 33"E	514.67'
215-216	S65° 48' 10"E	60.68'
216-217	S65° 48' 10"E	45.63'
217-218	S33° 12' 12"W	60.21'
218-219	S33° 12' 12"W	227.21'
219-210	SEE CURVE DATA ON SHEET	

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP 1200	434278.768	825543.724	1.00" O.D. IRON PIPE
IP 1201	434280.300	825907.304	1.00" O.D. IRON PIPE
IP 1206	434853.840	826283.210	1.00" O.D. IRON PIPE



TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE230	437+91.08	85.00' LT
TLE231	439+40.00	85.00' LT
TLE232	440+25.00	71.00' LT
TLE233	441+98.00	64.00' LT
TLE234	443+40.00	67.00' LT
TLE235	443+40.00	57.93' LT

RW STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
210	440+80.66	44.59' RT
211	437+91.58	45.43' RT
212	437+91.40	0.00' RT
213	437+91.12	74.57' LT
214	439+35.61	75.07' LT
215	444+35.88	59.95' LT
216	444+45.25	0.00' RT
217	444+52.29	45.08' RT
218	443+92.08	44.96' RT
219	441+64.87	44.47' RT

ALL TLES ARE FOR SLOPE GRADING PURPOSES

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), TREMPEALEAU COUNTY, NAD 83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

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

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICALLY 3/4" X 24" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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

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

ACCESS CONTROL IS ESTABLISHED PER RW PLAT 7130-03-21.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN EAU CLAIRE.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 93 & CTH X WAS ESTABLISHED FROM RW PLAT; 7130-03-21, 7130-08-21, 7132-08-22, TRACY'S OUTLOTS, ASSESSORS PLAT OF INDEPENDENCE, P.O.S. DATED 5/26/98 & CENTERLINE OF EXISTING PAVEMENTS.

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.

CONVENTIONAL UTILITY SYMBOLS

WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES	OH	
ELECTRIC	E	
CABLE TELEVISION	Tv	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.	CURVE DATA	
HIGHWAY EASEMENT	H.E.	LONG CHORD	LCH
LAND CONTRACT	LC	LONG CHORD BEARING	LCB
MONUMENT	MON.	RADIUS	R
PAGE	P.	DEGREE OF CURVE	D
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA
PROPERTY LINE	PL	LENGTH OF CURVE	L
RECORDED AS	(100')	TANGENT	TAN
REFERENCE LINE	R/L		

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	(1" UNLESS NOTED)	PROPOSED R/W LINE	
	●(SET)	EXISTING H.E. LINE	
R/W MONUMENT	▲(SET)	PROPERTY LINE	
R/W STANDARD		LOT & TIE LINES	
SIGN	SIGN	SLOPE INTERCEPTS	
SECTION CORNER MONUMENT		CORPORATE LIMITS	
SECTION CORNER SYMBOL		NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	
FEE (HATCH VARIES)		NO ACCESS (BY ACQUISITION)	
TEMPORARY LIMITED EASEMENT		NO ACCESS (BY STATUTORY AUTHORITY)	
PERMANENT LIMITED EASEMENT		SECTION LINE	
R/W BOUNDARY POINT	RWB20	QUARTER LINE	
PARCEL NUMBER	102	SIXTEENTH LINE	
UTILITY NUMBER	92	EXISTING CENTERLINE	
SIGN NUMBER (OFF PREMISE)	21	PROPOSED REFERENCE LINE	
BUILDING		PARALLEL OFFSET	

emcs inc

I, TIMOTHY G. RUTZEN JR. PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT COMPLIANCE WITH IN FULL THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE_DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 7130-00-27-4.02 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

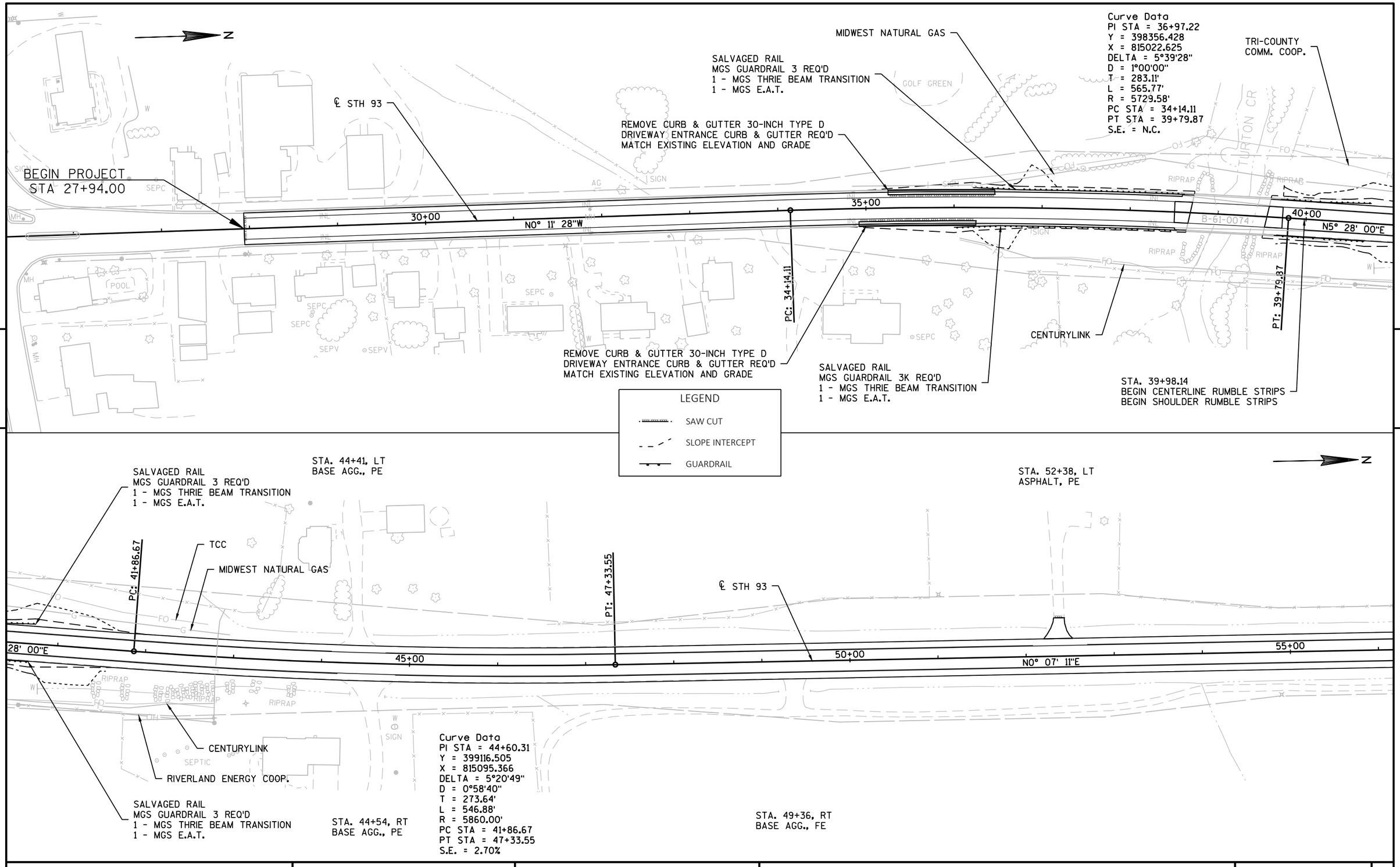
WISCONSIN TIMOTHY G. RUTZEN, JR. S-2994 MOSINEE, WISCONSIN LAND SURVEYOR

DATE: 5-2-2017
TIMOTHY G. RUTZEN JR.
PROFESSIONAL LAND SURVEYOR NUMBER 2994

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 5-2-2017
(SIGNATURE) Michael Piller
(PRINTED NAME) Michael Piller

FILE NAME : P:\49XX\4970.495\DWG\SP.16_STH93_TRE\CADDS\7130000T\SHEETSPLAN\040102-RP.DWG
PLOT DATE :
PLOT DATE : 3/24/2017 8:43 AM
PLOT BY : Tim Rutzen
PLOT NAME : PLOT SCALE : **********
APPRAISAL PLAT DATE :



PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 96	E

STA. 58+91, LT
BASE AGG., FE

℄ STH 93

N

60+00

65+00

70+00

N0° 07' 11"E

STA. 56+50, RT
BASE AGG., FE

STA. 63+33, RT
BASE AGG., FE

SIGN

STA. 67+54, RT
ASPHALT, CE

5

5

LEGEND

- SAW CUT
- SLOPE INTERCEPT
- GUARDRAIL

STA. 77+15, LT
ASPHALT, PE

Curve Data
PI STA = 77+65.17
Y = 402421.760
X = 815102.268
DELTA = 35°22'17"
D = 2°55'32"
T = 624.48'
L = 1209.05'
R = 1958.45'
PC STA = 71+40.69
PT STA = 83+49.74
S.E. = 5.50%

N

PC: 71+40.69

PT: 83+49.74

70+00

℄ STH 93

75+00

LOESEL LANE STA. 77+61
INTERSECTION TYPE B2 REQ'D

80+00

85+00

LOESEL LANE

RIPRAP

CANOPY

SIGN

CAUTION

NORTHERN NATURAL GAS
CROSSING AT APPROXIMATELY
STA. 83+25

PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 97	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\050100-PLAN & PROFILE\050100_PN_2-22-2016.DWG
LAYOUT NAME - 050102

PLOT DATE : 11/9/2017 1:08 PM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:100 FT

STA. 87+18, LT
BASE AGG., FE

STA. 92+30, LT
BASE AGG., FE

RIVER VALLEY ROAD STA. 87+13
INTERSECTION TYPE D

℄ STH 93

CENTURYLINK

RIVERLAND ENERGY COOP.?
DAIRYLAND POWER COOP.?

REMOVE AND REPLACE
EXISTING RR SIGNAL
(BY OTHERS)

N

PC: 99+16.44

85+00

90+00

95+00

N35° 15' 06"W

REMOVE CONC. CURB & GUTTER
CONC. CURB & GUTTER 36-INCH
TYPE D SLOPED REQ'D

RIVER VALLEY ROAD

REMOVE CONC. CURB & GUTTER
CONC. CURB AND GUTTER 36-INCH
TYPE D SLOPED REQ'D

REMOVE AND REPLACE
EXISTING RR SIGNAL
(BY OTHERS)

5

5

LEGEND

- SAW CUT
- SLOPE INTERCEPT
- GUARDRAIL

STA. 99+73, LT
EARTH., FE

SALVAGED RAIL
MGS GUARDRAIL 3K REQ'D
1 - MGS THRIE BEAM TRANSITION
1 - MGS E.A.T.

SALVAGED RAIL
MGS GUARDRAIL K REQ'D
1 - MGS THRIE BEAM TRANSITION
1 - MGS E.A.T.

N

105+00

B-61-0054

110+00

℄ STH 93

PC: 99+16.44

100+00

TREMPEALEAU R

SALVAGED RAIL
MGS GUARDRAIL 3 REQ'D
1 - MGS THRIE BEAM TRANSITION
1 - MGS E.A.T.

Curve Data
PI STA = 108+11.20
Y = 404941.815
X = 813321.154
DELTA = 75°58'00"
D = 5°00'00"
T = 894.75'
L = 1519.34'
R = 1145.92'
PC STA = 99+16.44
PT STA = 114+35.78
S.E. = 5.68%

SALVAGED RAIL
MGS GUARDRAIL K REQ'D
1 - MGS THRIE BEAM TRANSITION
1 - MGS E.A.T.

PT: 114+35.78

PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 98	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\050100-PLAN & PROFILE\050100_PN_2-22-2016.DWG
LAYOUT NAME - 050103

PLOT DATE : 11/9/2017 1:09 PM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

REMOVE CONC. CURB & GUTTER
CONC. CURB & GUTTER 36-INCH
TYPE D SLOPED

REMOVE CONC. CURB & GUTTER
CONC. CURB AND GUTTER 36-INCH
TYPE D SLOPED

ASPHALTIC FLUME

CENTURYLINK

SALVAGED RAIL
MGS GUARDRAIL 3 REQ'D
2-MGS E.A.T.

Curve Data
PI STA = 126+30.65
Y = 406525.674
X = 814684.210
DELTA = 24°25'05"
D = 4°31'39"
T = 273.82'
L = 539.33'
R = 1265.52'
PC STA = 123+56.83
PT STA = 128+96.16
S.E. = 6.00%

STA. 123+66.94
REMOVE 48" X 62' C.M.P.
2 - 29" X 45" X 72' ELLIPTICAL C.P.R.C. REQ'D
2 - CONC. HEADWALLS REQ'D
4 - CULVERT END MARKERS REQ'D

PT: 114+35.78

115+00

N40° 42' 54"E

120+00

125+00

CTH A STA. 115+46
INTERSECTION TYPE B2

RIVERLAND ENERGY COOP.

STA. 116+73.24
REMOVE 24" X 102' C.M.P.
1 - 24" X 96' C.P.R.C. REQ'D
2 - APRON ENDWALLS REQ'D
2 - CULVERT END MARKERS REQ'D

SALVAGED RAIL
MGS GUARDRAIL 3 REQ'D
2 - MGS E.A.T.

℄ STH 93

PC: 123+56.83

CTH A

TREMPEALEAU R

5

5

LEGEND

- SAW CUT
- SLOPE INTERCEPT
- GUARDRAIL

STA. 128+89, LT
BASE AGG., FE

DAIRYLAND POWER COOP.

PC: 130+96.01

℄ STH 93

PT: 134+61.57

CENTURYLINK

STA. 137+22, LT
BASE AGG., PE

STA. 139+07.88
48" X 76' C.M.P. TO REMAIN
1 - CLEANING CULVERT PIPE REQ'D
2 - CULVERT END MARKERS REQ'D

130+00

N16° 17' 49"E

135+00

N31° 41' 52"E

140+00

PT: 128+96.16

CANADIAN NATIONAL

TREMPEALEAU R

CANADIAN NATIONAL

Curve Data
PI STA = 132+79.90
Y = 407156.815
X = 814868.733
DELTA = 15°24'03"
D = 4°12'47"
T = 183.89'
L = 365.56'
R = 1360.00'
PC STA = 130+96.01
PT STA = 134+61.57
S.E. = 6.00%

STA. 136+83, RT
EARTH, FE

PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 99	E

STA. 142+46, LT
EARTH, FE

STA. 146+87, LT
BASE AGG., PE

STA. 147+20.59
(2) REMOVE 36" X 63' C.M.P.
2 - 36" X 64' C.P.R.C. REQ'D
CONC. HEADWALLS REQ'D
2 - CULVERT END MARKERS REQ'D

TCC

CENTURYLINK

TC

FO

145+00

150+00

155+00

N31° 41' 52"E

CANADIAN NATIONAL

℄ STH 93

5

5

LEGEND

SAW CUT

SLOPE INTERCEPT

GUARDRAIL

Curve Data
PI STA = 158+40.74
Y = 409337.542
X = 816215.460
DELTA = 4°45'53"
D = 1°39'14"
T = 144.13'
L = 288.09'
R = 3464.37'
PC STA = 156+96.61
PT STA = 159+84.70
S.E. = 4.00%

STA. 165+05, LT
BASE AGG., PE

CENTURYLINK

TCC

STA. 162+22, LT
EARTH, FE

℄ STH 93

FO

5+00

160+00

165+00

170+00

N26° 55' 59"E

CANADIAN NATIONAL

CANADIAN NATIONAL

PC: 156+96.61

PT: 159+84.70

STA. 161+82.37
REMOVE 24" X 77' C.M.P.
1 - 24" X 72' C.P.R.C. REQ'D
2 - APRON ENDWALLS REQ'D
2 - CULVERT END MARKERS REQ'D

PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 100	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\050100-PLAN & PROFILE\050100_PN_2-22-2016.DWG
LAYOUT NAME - 050105
PLOT DATE : 11/9/2017 1:09 PM
PLOT BY : PAYNE, MATTHEW A
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

STA. 172+58, LT
BASE AGG., FE

RIVERLAND ENERGY COOP.

CENTURYLINK

STA. 172+97.26
REMOVE 24" X 56' C.M.P.
1 - 19" X 30" X 64' ELLIPTICAL C.P.R.C. REQ'D
2 - CONC. HEADWALLS REQ'D
4 - CULVERT END MARKERS REQ'D

℄ STH 93

STA. 181+93, LT
BASE AGG., FE

170+00 175+00 180+00

N26° 55' 59"E

CANADIAN NATIONAL

CANADIAN NATIONAL

5

5

STA. 173+24, RT
BASE AGG., FE

LEGEND

- SAW CUT
- SLOPE INTERCEPT
- GUARDRAIL

SALVAGED RAIL
MGS GUARDRAIL 3 REQ'D
1 - MGS THRIE BEAM TRANSITION
1 - MGS E.A.T.

SALVAGED RAIL
MGS GUARDRAIL 3 REQ'D
1 - MGS THRIE BEAM TRANSITION
1 - MGS E.A.T.

STA. 193+50, LT
BASE AGG., FE

℄ STH 93

RIPRAP

RIPRAP

185+00 190+00 195+00

N26° 55' 59"E

B-61-0075

RIPRAP

RIPRAP

RIPRAP

CANADIAN NATIONAL

CANADIAN NATIONAL

CENTURYLINK

STA. 193+60, RT
ASPHALT, PE

SALVAGED RAIL
MGS GUARDRAIL 3 REQ'D
1 - MGS THRIE BEAM TRANSITION
1 - MGS E.A.T.

SALVAGED RAIL
MGS GUARDRAIL 3 REQ'D
1 - MGS THRIE BEAM TRANSITION
1 - MGS E.A.T.

PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 101	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\050100-PLAN & PROFILE\050100_PN_2-22-2016.DWG
LAYOUT NAME - 050106

PLOT DATE : 11/9/2017 1:09 PM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

STA. 198+88, LT
EARTH, FE

Curve Data
PI STA = 203+88.71
Y = 413392.370
X = 818275.540
DELTA = 22°26'35"
D = 3°49'37"
T = 297.03'
L = 586.45'
R = 1497.17'
PC STA = 200+91.68
PT STA = 206+78.12
S.E. = 6.00%

STA. 205+16, LT
EARTH, FE

N

RIPRAP

PC: 200+91.68

LEWIS VALLEY ROAD

PT: 206+78.12

SIGN

200+00
N26° 55' 59"E

205+00

210+00
N4° 29' 24"E

CANADIAN NATIONAL

CANADIAN NATIONAL

CANADIAN NATIONAL

℄ STH 93

STA. 199+25, RT
BASE AGG., FE

LEWIS VALLEY ROAD STA. 203+76
INTERSECTION TYPE C

5

5

LEGEND

- SAW CUT
- SLOPE INTERCEPT
- GUARDRAIL

STA. 217+54, LT
BASE AGG., PE

STA. 214+68.51
REMOVE 24" X 60' C.M.P.
1 - 24" X 56' C.P.R.C. REQ'D
2 - APRON ENDWALLS REQ'D
2 - CULVERT END MARKERS REQ'D

Curve Data
PI STA = 223+33.78
Y = 415339.069
X = 818428.409
DELTA = 9°28'34"
D = 2°08'09"
T = 222.34'
L = 443.67'
R = 2682.56'
PC STA = 221+11.44
PT STA = 225+55.11
S.E. = 4.70%

STA. 223+43, LT
BASE AGG., FE

N

CENTURYLINK

TCC

FO

FO

PC: 221+11.44

PT: 225+55.11

215+00

N4° 29' 24"E

220+00

225+00

NATIONAL

CANADIAN NATIONAL

℄ STH 93

TCC

PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 102	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\050100-PLAN & PROFILE\050100_PN_2-22-2016.DWG
LAYOUT NAME - 050107

PLOT DATE : 11/9/2017 1:09 PM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

STA. 236+95.45
30" X 106' C.M.P. TO REMAIN
1 - CLEANING CULVERT PIPE REQ'D
2 - CULVERT END MARKERS REQ'D

STA. 238+52, LT
BASE AGG., FE

STA. 239+09, LT
BASE AGG., PE

N

RIVERLAND ENERGY COOP.

CENTURYLINK

℄ STH 93

PC: 232+66.48

PT: 237+11.81

230+00

N4° 59' 10"W

235+00

240+00

N0° 10' 19"W

RIPRAP

CENTURYLINK

Curve Data
PI STA = 234+89.27
Y = 416491.196
X = 818327.893
DELTA = 4°48'51"
D = 1°04'52"
T = 222.80'
L = 445.33'
R = 5300.03'
PC STA = 232+66.48
PT STA = 237+11.81
S.E. = 2.90%

STA. 231+49, RT
ASPHALT, FE

STA. 235+24, RT
ASPHALT, FE

STA. 229+45, RT
BASE AGG., FE

STA. 235+92, RT
BASE AGG., PE

5

5

LEGEND
- SAW CUT
- SLOPE INTERCEPT
- GUARDRAIL

STA. 245+08, LT
ASPHALT, PE

STA. 246+85, LT
BASE AGG., PE

STA. 251+14, LT
BASE AGG., PE

N

RIVERLAND ENERGY COOP.

TCC

CENTURYLINK

MGS GUARDRAIL 3 REQ'D
2 - MGS E.A.T.
MISSING POST AT CATTLE PASS

RIVERLAND ENERGY COOP.

FEEDER

FEEDER

SEPTIC

SEPV

SLAB

245+00

250+00

255+00

N0° 10' 19"W

℄ STH 93

STA. 250+99, RT
BASE AGG., FE

STA. 243+35, RT
BASE AGG., FE

STA. 246+68, RT
BASE AGG., FE

STA. 248+69.97
72" X 60' C.M.P. CATTLE PASS TO REMAIN
2 - CULVERT END MARKERS REQ'D

STA. 254+98.11
30" X 79' C.M.P. TO REMAIN
1 - CLEANING CULVERT PIPE REQ'D
2 - CULVERT END MARKERS REQ'D

PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 103	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\050100-PLAN & PROFILE\050100_PN_2-22-2016.DWG
LAYOUT NAME - 050108

PLOT DATE : 11/9/2017 1:09 PM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

TCC

RIVERLAND ENERGY COOP.

PC: 258+16.92

PT: 261+24.63

℄ STH 93

STA. 266+31, LT
BASE AGG., FE

STA. 268+47, LT
ASPHALT, PE

TCC

RIVERLAND ENERGY COOP.

PROPOSED TLE FOR GRADING

N

255+00

N0° 10' 19"W

260+00

265+00

N1° 35' 14"E

270+00

Curve Data
PI STA = 259+70.79
Y = 418972.963
X = 818320.449
DELTA = 1°45'33"
D = 0°34'18"
T = 153.87'
L = 307.71'
R = 10022.23'
PC STA = 258+16.92
PT STA = 261+24.63
S.E. = R.C.

STA. 258+43, RT
EARTH, FE

STA. 265+94.89
REMOVE 24" X 74' C.M.P.
1 - 36" X 64' C.P.R.C.
2 - APRON ENDWALLS REQ'D
2 - CULVERT END MARKERS REQ'D

STA. 266+53, RT
BASE AGG., FE

LEGEND
- SAW CUT
- SLOPE INTERCEPT
- GUARDRAIL

STA. 269+99, LT
BASE AGG., FE

CTH XX

PROPOSED R/W

TCC

RIVERLAND ENERGY COOP.

PROPOSED TLE FOR GRADING

RIVERLAND ENERGY COOP.

SALVAGED RAIL
MGS GUARDRAIL 3 REQ'D
1 - MGS THRIE BEAM APPROACH
1 - MGS E.A.T.
30:1 FLARE RATE

SALVAGED RAIL
MGS GUARDRAIL 3 REQ'D
1 - MGS THRIE BEAM TRANSITION
1 - MGS E.A.T.

STA. 281+06, LT
BASE AGG., FE

N

TCC

270+00

275+00

280+00

N0° 45' 38"E

B-61-0076

PI: 270+97.85

SALVAGE RAIL
MGS GUARDRAIL 3 REQ'D
1 - MGS THRIE BEAM TRANSITION
1 - MGS E.A.T.

SALVAGED RAIL
1 - MGS THRIE BEAM TRANSITION
2 - MGS 8' SHORT RADIUS
1 - SHORT RADIUS TERMINAL

℄ STH 93

STA. 271+04, RT
BASE AGG., PE

STA. 271+98, RT
BASE AGG., PE

CTH XX STA. 271+76
INTERSECTION TYPE C

STA. 275+09, RT
BASE AGG., FE

PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 104 E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\050100-PLAN & PROFILE\050100_PN_2-22-2016.DWG
LAYOUT NAME - 050109

PLOT DATE : 11/9/2017 1:09 PM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

STA. 289+77, LT
BASE AGG., FE

STA. 290+93, LT
BASE AGG., PE

STA. 294+16, LT
BASE AGG., PE

N

TCC

PC: 286+02.84

CEMETERY

FO

T

285+00

290+00

295+00

℄ STH 93

STA. 284+23.83
REMOVE 30" X 73' C.M.P.
1 - 30" X 64' C.P.R.C. REQ'D
2 - APRON ENDWALLS REQ'D
2 - CULVERT END MARKERS REQ'D

STA. 291+50, RT
BASE AGG., FE

Curve Data
PI STA = 292+54.93
Y = 422256.507
X = 818380.298
DELTA = 13°14'30"
D = 1°01'11"
T = 652.10'
L = 1298.38'
R = 5618.04'
PC STA = 286+02.84
PT STA = 299+01.22
S.E. = 2.80%

STA. 294+28, RT
BASE AGG., FE

5

5

LEGEND

SAW CUT

SLOPE INTERCEPT

GUARDRAIL

STA. 305+16, LT
BASE AGG., FE

N

RIVERLAND ENERGY COOP.

TCC

FO

E

T

FO

T

PT: 299+01.22

PC: 311+33.18

℄ STH 93

300+00

305+00

N14° 00' 07"E

310+00

STA. 309+43.44
REMOVE 24" X 82' C.M.P.
1 - 24" X 72' C.P.R.C. REQ'D
2 - APRON ENDWALLS REQ'D
2 - CULVERT END MARKERS REQ'D

PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 105	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\050100-PLAN & PROFILE\050100_PN_2-22-2016.DWG
LAYOUT NAME - 050110

PLOT DATE : 11/9/2017 1:09 PM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:100 FT

STA. 315+39, LT
BASE AGG., FE

STA. 319+37, LT
BASE AGG., FE

STA. 319+70.40
(2) 72" X 75' C.M.P. TO REMAIN
2 - CLEANING CULVERT PIPE REQ'D
2 - CULVERT END MARKERS REQ'D

STA. 322+46, LT
BASE AGG., PE

STA. 325+96, LT
BASE AGG., PE

TCC

℄ STH 93

315+00

320+00

325+00

Curve Data
PI STA = 326+21.93
Y = 425529.097
X = 819196.369
DELTA = 13°49'43"
D = 0°28'00"
T = 1488.74'
L = 2963.02'
R = 12276.49'
PC STA = 311+33.18
PT STA = 340+96.20
S.E. = N.C.

STA. 319+19, RT
EARTH, FE

CANADIAN NATIONAL

STA. 312+98, RT
BASE AGG., FE

5

5

LEGEND

SAW CUT

SLOPE INTERCEPT

GUARDRAIL

STA. 332+05, LT
BASE AGG., FE

CROSS ROAD STA. 332+64
INTERSECTION TYPE C

℄ STH 93

RIVERLAND ENERGY COOP.

TCC

FO
E

FO
E

PT: 340+96.20

SIGN

330+00

335+00

340+00

CANADIAN NATIONAL

CROSS ROAD

SIGN

STA. 330+94.08
REMOVE 30" X 90' C.M.P.
1 - 30" X 80' C.P.R.C. REQ'D
2 - APRON ENDWALLS REQ'D
2 - CULVERT END MARKERS REQ'D

STA. 339+38.09
REMOVE 24" X 91' C.M.P.
1 - 24" X 80' C.P.R.C. REQ'D
2 - APRON ENDWALLS REQ'D
2 - CULVERT END MARKERS REQ'D

PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 106	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\050100-PLAN & PROFILE\050100_PN_2-22-2016.DWG
LAYOUT NAME - 050111
PLOT DATE : 11/9/2017 1:09 PM
PLOT BY : PAYNE, MATTHEW A
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

STA. 342+84.55
REMOVE 30" X 87' C.M.P.
1 - 30" X 80' C.P.R.C. REQ'D
2 - APRON ENDWALLS REQ'D
2 - CULVERT END MARKERS REQ'D

STA. 344+08, LT
BASE AGG., FE

TCC

RIVERLAND ENERGY COOP.

PT: 340+96.20

STA. 348+38.12
REMOVE 30" X 87' C.M.P.
1 - 30" X 80' C.P.R.C. REQ'D
2 - APRON ENDWALLS REQ'D
2 - CULVERT END MARKERS REQ'D

STA. 350+59, LT
BASE AGG., PE

RIVERLAND ENERGY COOP.

TCC

STA. 354+36.05
24" X 89' C.M.P. TO REMAIN
1-CLEANING CULVERT PIPE REQ'D
2 - CULVERT END MARKERS REQ'D

N

SEPV
SEPV
SEPV
SEPV

FO
E
T

345+00
N27° 49' 51"E
350+00
355+00

CANADIAN NATIONAL
CANADIAN NATIONAL

℄ STH 93

5

5

STA. 344+02, RT
BASE AGG., FE

LEGEND

- SAW CUT
- SLOPE INTERCEPT
- GUARDRAIL

STA. 359+38.00
REMOVE 24" X 101' C.M.P.
1 - 24" X 96' C.P.R.C. REQ'D
2 - APRON ENDWALLS REQ'D
2 - CULVERT END MARKERS REQ'D

STA. 367+18, LT
BASE AGG., PE

N

PC: 363+91.62

355+00
N27° 49' 51"E
360+00
365+00
370+00

CANADIAN NATIONAL
CANADIAN NATIONAL

℄ STH 93

STA. 367+02, RT
BASE AGG., FE

STA. 368+45.64
REMOVE 30" X 89' C.M.P.
1 - 30" X 80' C.P.R.C. REQ'D
2 - APRON ENDWALLS REQ'D
2 - CULVERT END MARKERS REQ'D

PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 107	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\050100-PLAN & PROFILE\050100_PN_2-22-2016.DWG
LAYOUT NAME - 050112

PLOT DATE : 11/9/2017 1:09 PM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

STA. 373+36.11
REMOVE 24" X 85' C.M.P.
1 - 24" X 72' C.P.R.C. REQ'D
2 - APRON ENDWALLS REQ'D
2 - CULVERT END MARKERS REQ'D

RIVERLAND ENERGY COOP.

TCC

Curve Data
PI STA = 379+77.84
Y = 430278.292
X = 821703.595
DELTA = 31°00'02"
D = 1°00'06"
T = 1586.22'
L = 3094.67'
R = 5719.60'
PC STA = 363+91.62
PT STA = 394+86.29
S.E. = 2.70%

STA. 380+61.92
REMOVE 30" X 70' C.M.P.
1 - 42" X 64' C.P.R.C. REQ'D
2 - APRON ENDWALLS REQ'D
2 - CULVERT END MARKERS REQ'D

DORIS GUZA ROAD

370+00
375+00
380+00

℄ STH 93

CANADIAN NATIONAL

STA. 379+43, RT
BASE AGG., FE

DORIS GUZA ROAD STA. 381+42
INTERSECTION TYPE C

LEGEND
- SAW CUT
- SLOPE INTERCEPT
- GUARDRAIL

STA. 386+00, LT
BASE AGG., FE

STA. 387+37.00
24" X 84' C.M.P. TO REMAIN
1 - CLEANING CULVERT PIPE REQ'D
2 - CULVERT END MARKERS REQ'D

RIVERLAND ENERGY COOP.

TCC

385+00
390+00
395+00

℄ STH 93

CANADIAN NATIONAL

KUKA LANE

KUKA LANE STA. 394+87
INTERSECTION TYPE C

PT: 394+86.29

SALVAGED RAIL
MGS GUARDRAIL 3 REQ'D
1 - MGS THRIE BEAM TRANSITION
1 - MGS E.A.T.

STA. 394+88, RT
BASE AGG., FE

SALVAGED RAIL
MGS GUARDRAIL 3 REQ'D
1 - MGS THRIE BEAM TRANSITION
1 - MGS E.A.T.

PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 108	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\050100-PLAN & PROFILE\050100_PN_2-22-2016.DWG
LAYOUT NAME - 050113
PLOT DATE : 11/9/2017 1:09 PM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:100 FT

STA. 404+75, LT
BASE AGG., FE

SALVAGED RAIL
MGS GUARDRAIL 3 REQ'D
1 - MGS THRIE BEAM TRANSITION
1 - MGS E.A.T.

JELEN LANE STA. 408+18
INTERSECTION TYPE C

TCC

400+00

405+00

410+00

N58° 49' 53"E

B-61-0072

TRAVERSE RD

JELEN LANE

SIGN

CANADIAN NATIONAL

℄ STH 93

WALLACE LANE STA. 408+10
INTERSECTION TYPE C

WALLACE LANE

DAIRYLAND POWER COOP.

STA. 408+80.40
REMOVE 30" X 76' C.M.P.
1 - 30" X 80' C.P.R.C. REQ'D
2 - APRON ENDWALLS REQ'D
2 - CULVERT END MARKERS REQ'D

RIVERLAND ENERGY COOP. &
XCEL ENERGY

SALVAGED RAIL
MGS GUARDRAIL 3 REQ'D
1 - MGS THRIE BEAM TRANSITION
1 - MGS E.A.T.

LEGEND
- SAW CUT
- SLOPE INTERCEPT
- GUARDRAIL

5

5

Curve Data
PI STA = 424+43.53
Y = 432629.796
X = 825591.199
DELTA = 46°11'49"
D = 2°59'16"
T = 817.87'
L = 1546.14'
R = 1917.60'
PC STA = 416+25.67
PT STA = 431+71.80
S.E. = 5.50%

STA. 415+45.71
REMOVE 36" X 58' C.M.P.
1 - 36" X 64' C.P.R.C. REQ'D
2 - APRON ENDWALLS REQ'D
2 - CULVERT END MARKERS REQ'D

TCC

PC: 416+25.67

STA. 418+34, LT
BASE AGG., FE

℄ STH 93

415+00

420+00

425+00

CANADIAN NATIONAL

STA. 418+46, RT
BASE AGG., FE

MGS GUARDRAIL 3 REQ'D
1 - MGS E.A.T.

STA. 424+43.63 - STA. 424+69.77
+/- 200' RADIUS

MGS 40' SHORT RADIUS REQ'D
1 - SHORT RADIUS TERMINAL

STA. 424+36.69
72" X 50' C.M.P. CATTLE PASS TO REMAIN
2 - CULVERT END MARKERS REQ'D

STA. 423+57.16 LT
END SHOULDER RUMBLE STRIPS

CTH X

SALVAGED RAIL
MGS GUARDRAIL K REQ'D
2 - MGS ENERGY ABSORBING TERMINAL

STA. 423+80.86
END CENTERLINE RUMBLE STRIPS
END SHOULDER RUMBLE STRIPS, RT

PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 109	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\050100-PLAN & PROFILE\050100_PN_2-22-2016.DWG
LAYOUT NAME - 050114

PLOT DATE : 11/9/2017 1:10 PM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

DAIRYLAND POWER COOP.

CTH X

CTH X STA. 425+75
INTERSECTION TYPE B2

TCC

PROPOSED FLOWLINE

PROPOSED R/W
75' OFFSET FROM CENTERLINE

DAIRYLAND POWER COOP.

STA. 425+75.83 - STA. 443+70.00 LT
ROADWAY WIDTH INCREASED TO 23'
1 - 11' LEFT TURN LANE
1 - 12' THROUGH LANE

STA. 436+45.53 LT
BASE AGG,. FE
REPLACE EXISTING FE
AND EXISTING CULVERT

PT: 431+71.80

PC: 437+86.90

425+00

430+00

435+00

N12° 38' 04"E

SALVAGED RAIL
MGS GUARDRAIL K REQ'D
2 - MGS ENERGY ABSORBING TERMINAL

℄ STH 93

STARWOOD LANE STA. 430+24
INTERSECTION TYPE C

STARWOOD LANE

5

5

LEGEND

- SAW CUT
- SLOPE INTERCEPT
- GUARDRAIL

STA. 438+85.41
EXTEND EXIST 30" C.P.R.C. BY 15' REQ'D
REMOVING INLET
1 - INLET MEDIAN 2 GRATE REQ'D
2 - INLET COVER TYPE MS REQ'D
2 - CULVERT END MARKERS REQ'D

RAISE MANHOLES

STA. 442+78.41
EXTEND EXIST 24" C.P.R.C. BY 43'
REMOVING INLET
1 - INLET MEDIAN 2 GRATE REQ'D
2 - INLET COVER TYPE MS REQ'D
1 - CULVERT END MARKERS REQ'D

PT: 441+61.48

PC: 445+85.98

Curve Data
PI STA = 447+65.13
Y = 434877.199
X = 826378.846
DELTA = 56°33'33"
D = 17°12'21"
T = 179.15'
L = 328.72'
R = 333.00'
PC STA = 445+85.98
PT STA = 449+14.70
S.E. = 4.00%

PROPOSED TLE FOR GRADING

PC: 438+85.41

440+00

N33° 04' 50"E

445+00

435+00

N12° 38' 04"E

℄ STH 93

MIDWEST NATURAL GAS

XCEL ENERGY

TCC

Curve Data
PI STA = 439+76.20
Y = 434212.776
X = 825946.036
DELTA = 20°26'46"
D = 5°27'30"
T = 189.30'
L = 374.58'
R = 1049.68'
PC STA = 437+86.90
PT STA = 441+61.48
S.E. = 5.80%

A STREET STA. 444+15
INTERSECTION TYPE D

A STREET

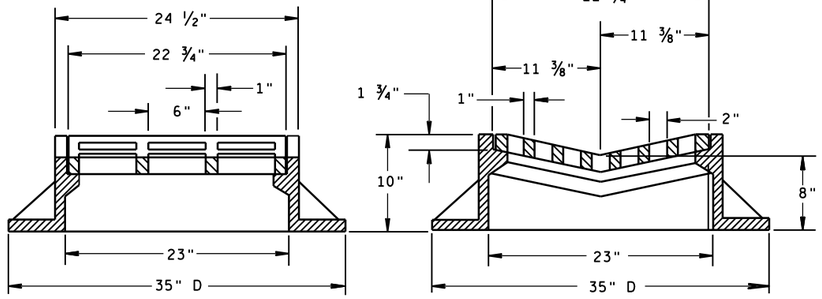
END PROJECT
STA 449+14.70

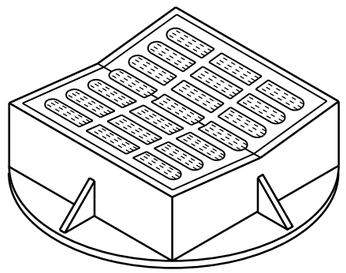
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 110	E

Standard Detail Drawing List

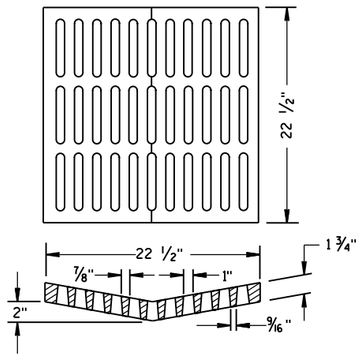
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08C08-02	INLETS MEDIAN 1 AND 2 GRATE
08D01-19	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F10-01	CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
13A10-01A	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-01C	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A11-02A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-02B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13B01-10	PAVEMENT DETAILS FOR RAILROAD APPROACH
14B42-05A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-05B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-05C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-05D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-03A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-03B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-03C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-04A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B53-01A	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01B	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01C	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01D	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01E	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01F	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01G	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01H	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01I	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C04-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-13B	PAVEMENT MARKING WORDS
15C07-13C	PAVEMENT MARKING ARROWS
15C08-17A	LONGITUDINAL MARKING (MAINLINE)
15C08-17B	PAVEMENT MARKING (TURN LANES)
15C09-10A	SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSINGS
15C12-05	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-04A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C35-01A	PAVEMENT MARKING (INTERSECTIONS)
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS
15D39-01	TRAFFIC CONTROL, DROP-OFF SIGNING

6



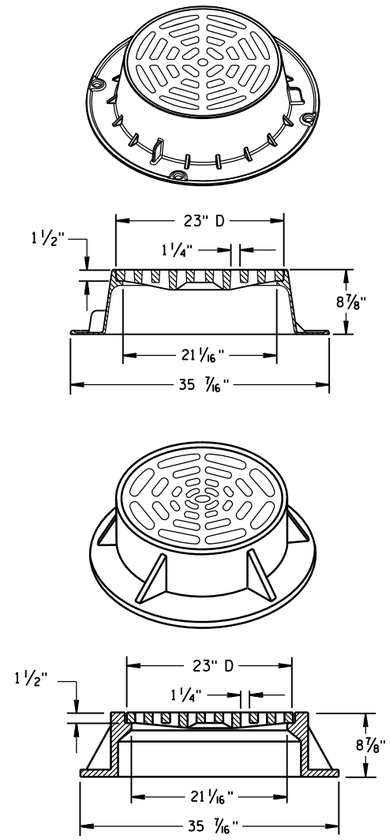


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

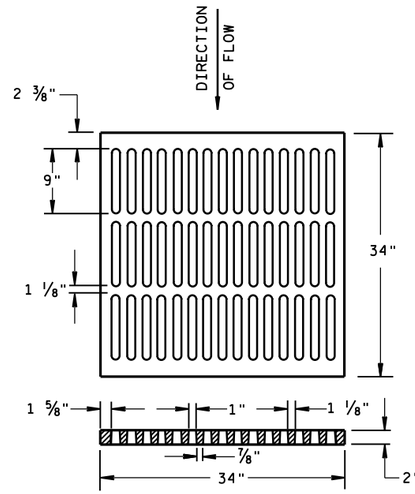
NOTE: EITHER CASTING IS ACCEPTABLE

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.

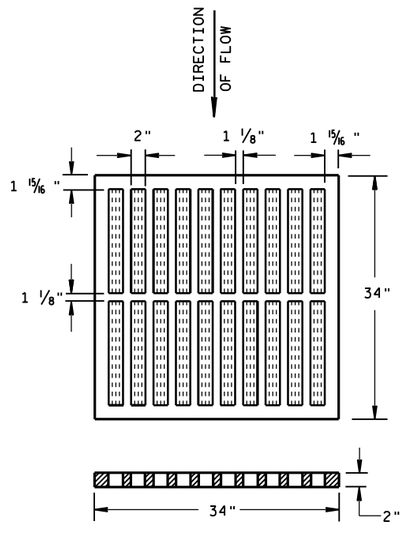
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



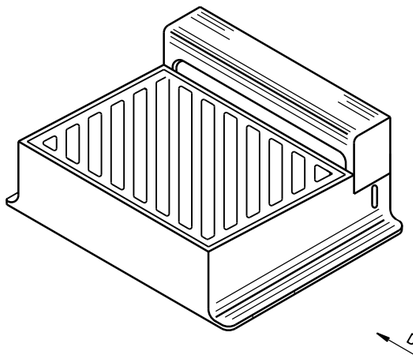
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE



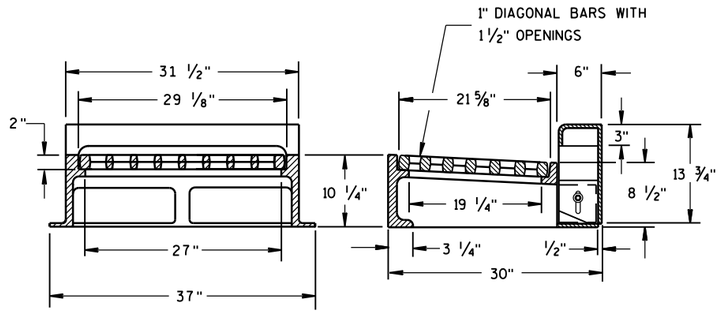
TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE



DIRECTION OF FLOW

DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

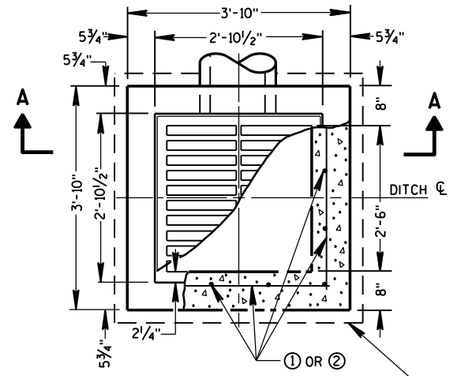
INLET COVERS
TYPE B, B-A, C,
MS, MS-A, & WM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

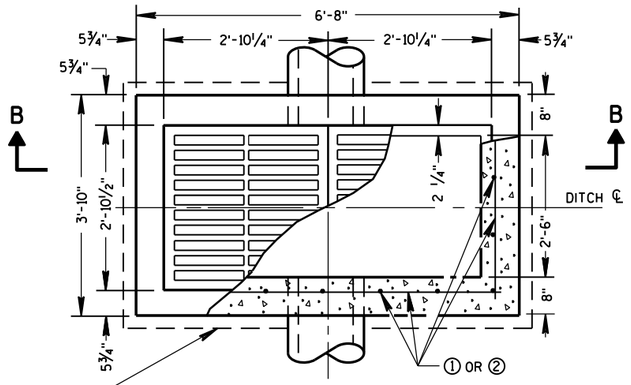
APPROVED
11/27/2013
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 A 5-19b

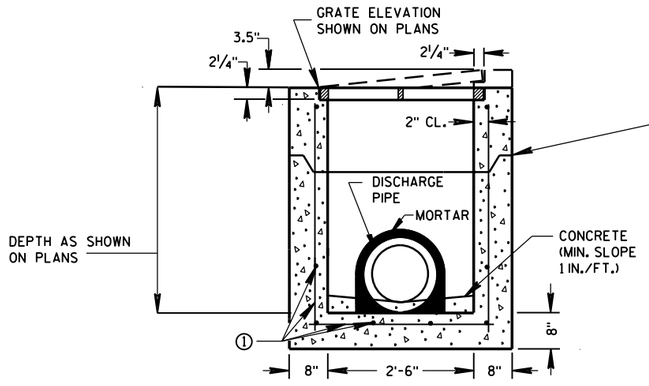


PLAN VIEW

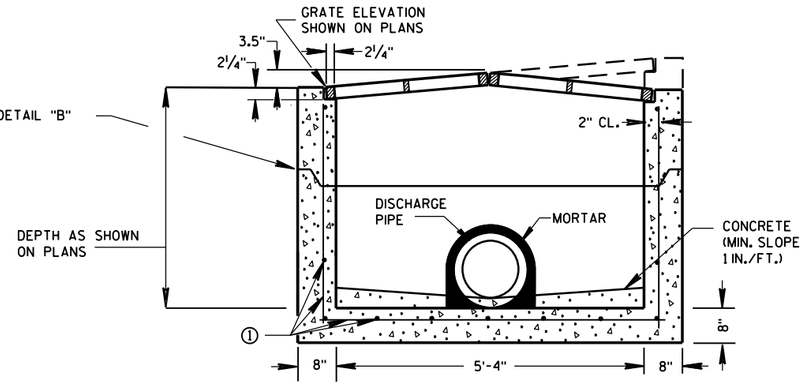


PLAN VIEW

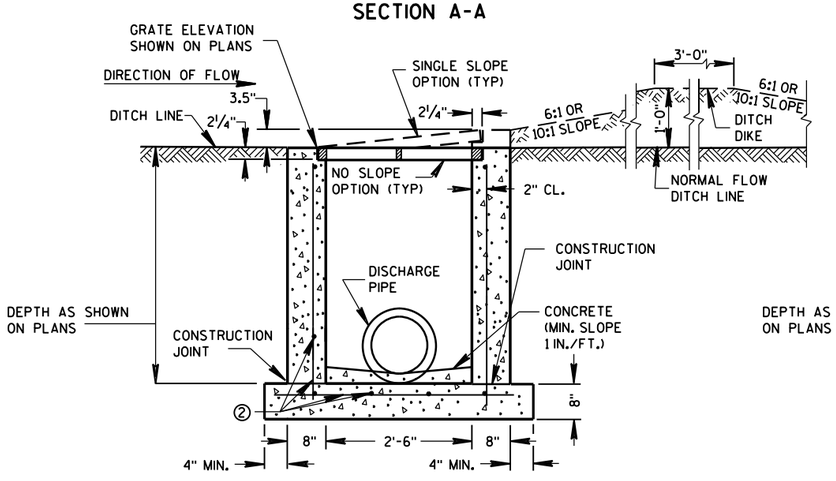
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



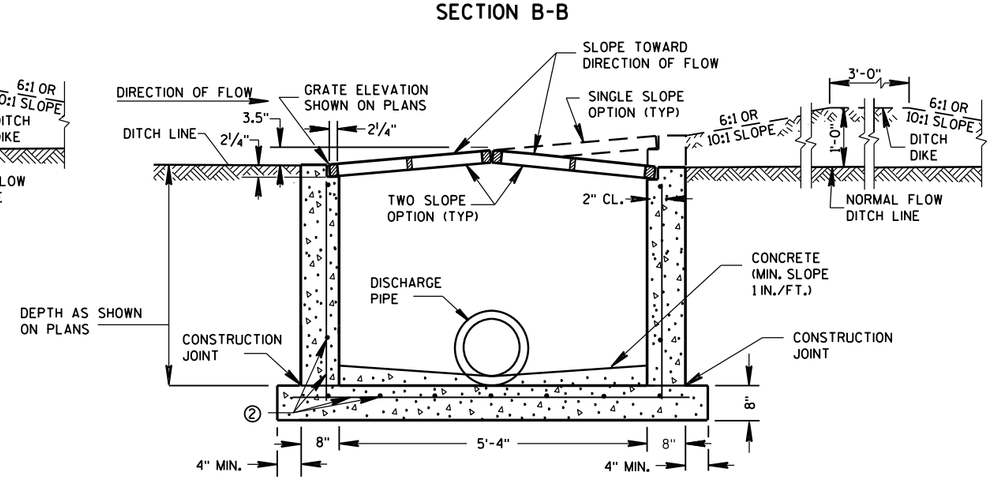
PRECAST REINFORCED CONCRETE SECTION A-A



PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A



REINFORCED CAST-IN-PLACE CONCRETE SECTION B-B

INLETS MEDIAN 1 GRATE

INLETS MEDIAN 2 GRATE

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.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, IG-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

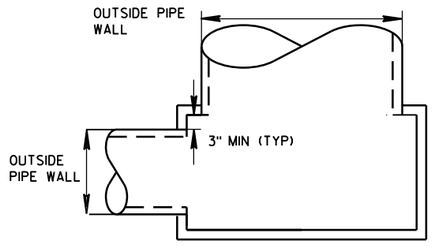
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

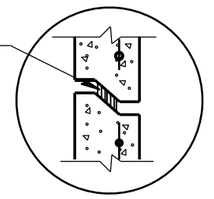
PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER	
INLET SIZE	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42



DETAIL "A"

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



DETAIL "B"

INLETS MEDIAN 1 AND 2 GRATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVI ENT
FHWA

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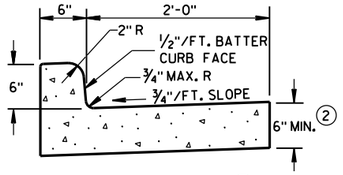
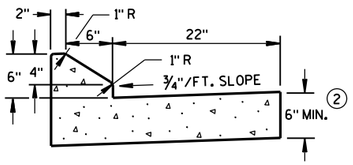
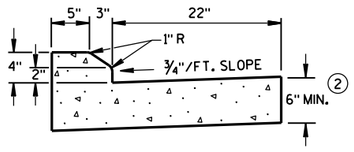
S.D.D. 8 C 8-2



TYPES A & D ①

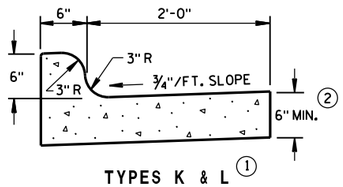


6" SLOPED CURB TYPES G & J ①

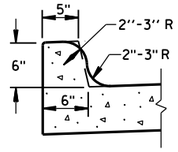


4" SLOPED CURB TYPES G & J ①

CONCRETE CURB & GUTTER 30"

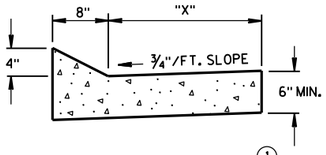


TYPES K & L ①



OPTIONAL CURB SHAPE FOR TYPES K & L ①

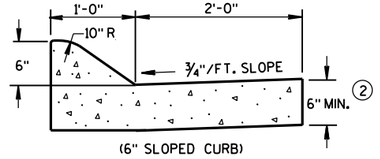
CONCRETE CURB & GUTTER 30"



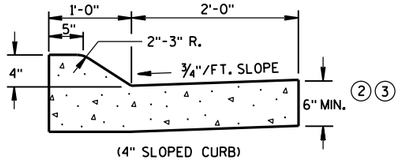
TYPES TBT & TBTT ①

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"

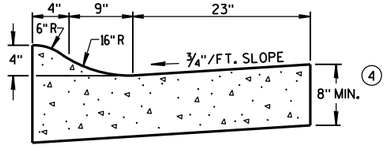


(6" SLOPED CURB)



(4" SLOPED CURB)

TYPES A & D ①



4" SLOPED CURB TYPES R & T ①⑤

CONCRETE CURB & GUTTER 36"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

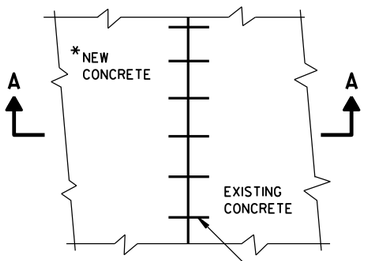
② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

③ USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

④ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

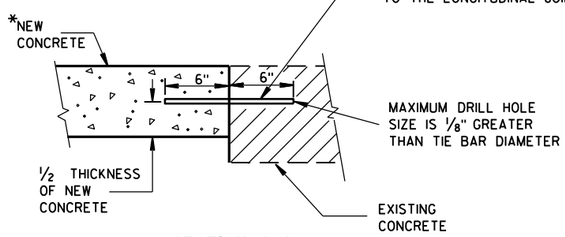
⑤ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

⑥ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.



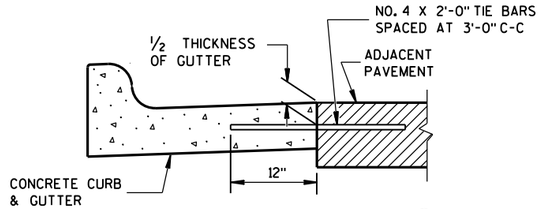
PLAN VIEW

*NEW CURB & GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE.

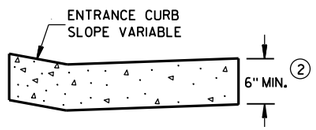


SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT

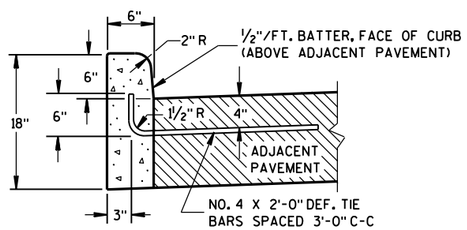


TYPICAL TIE BAR LOCATION ①

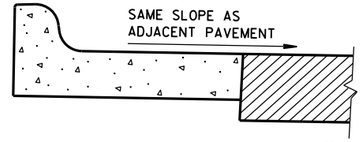


DRIVEWAY ENTRANCE CURB

(WHEN DIRECTED BY THE ENGINEER)

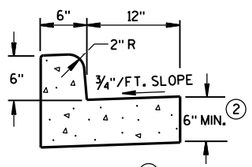


① TYPES A & D



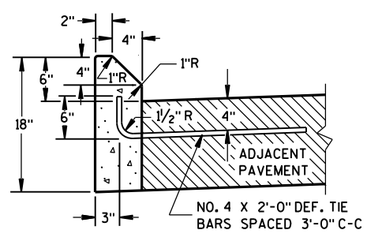
⑥ REVERSE SLOPE GUTTER

(TYPICAL FOR ALL CURB & GUTTER TYPES)



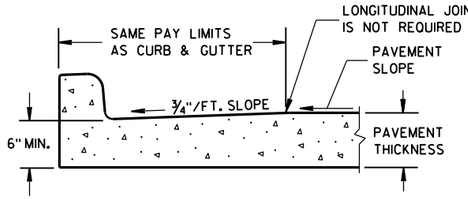
① TYPES A & D

CONCRETE CURB & GUTTER 18"

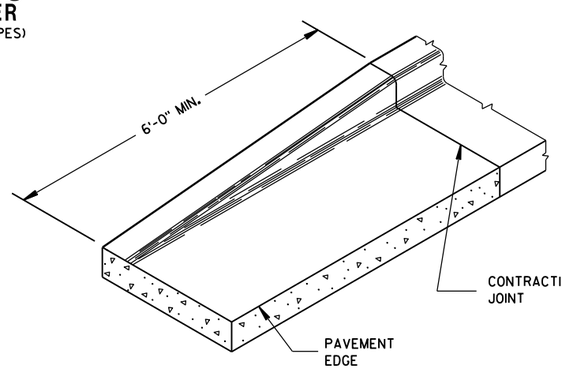


① TYPES G & J

CONCRETE CURB



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



END SECTION CURB & GUTTER

CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June, 2016 — DATE

/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

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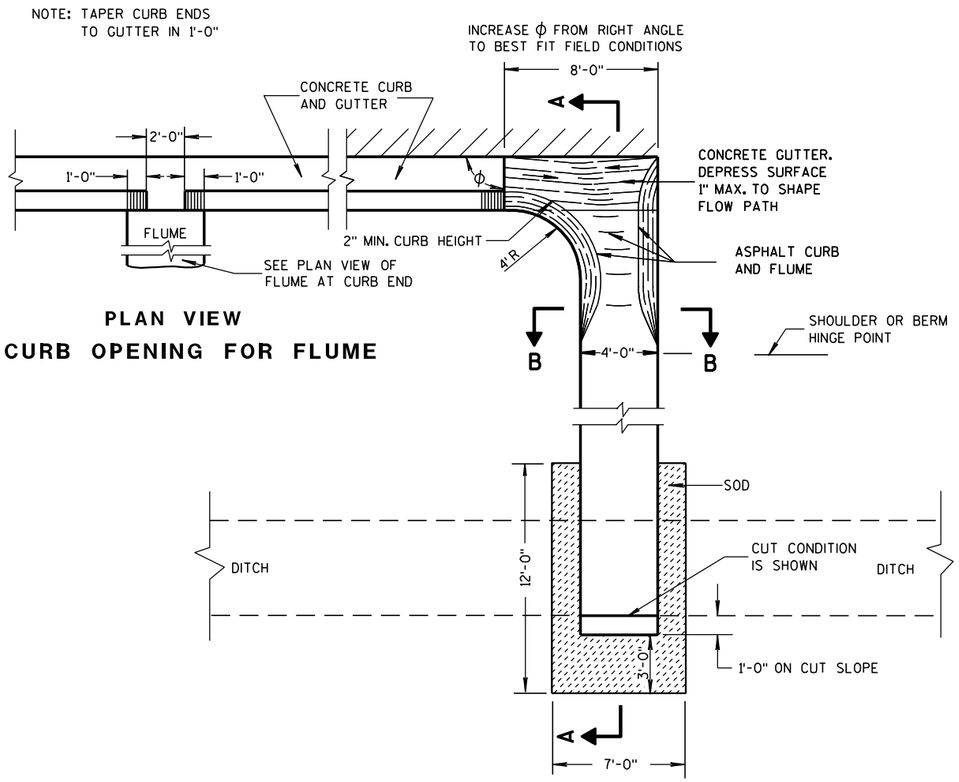
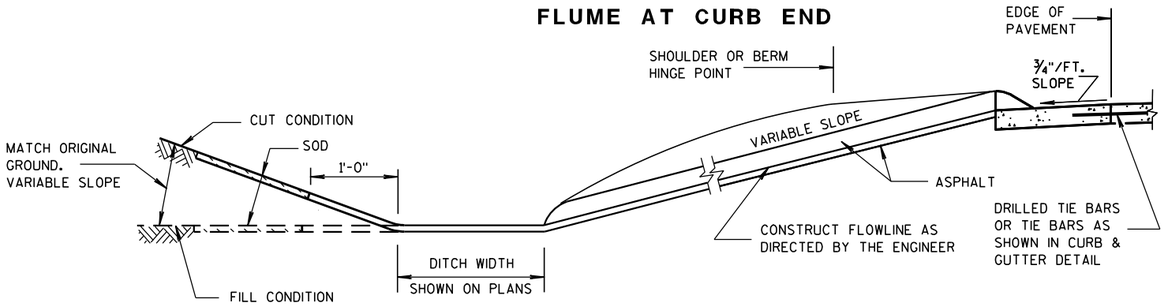
ASPHALTIC FLUME

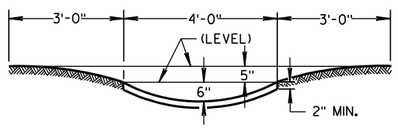


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

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

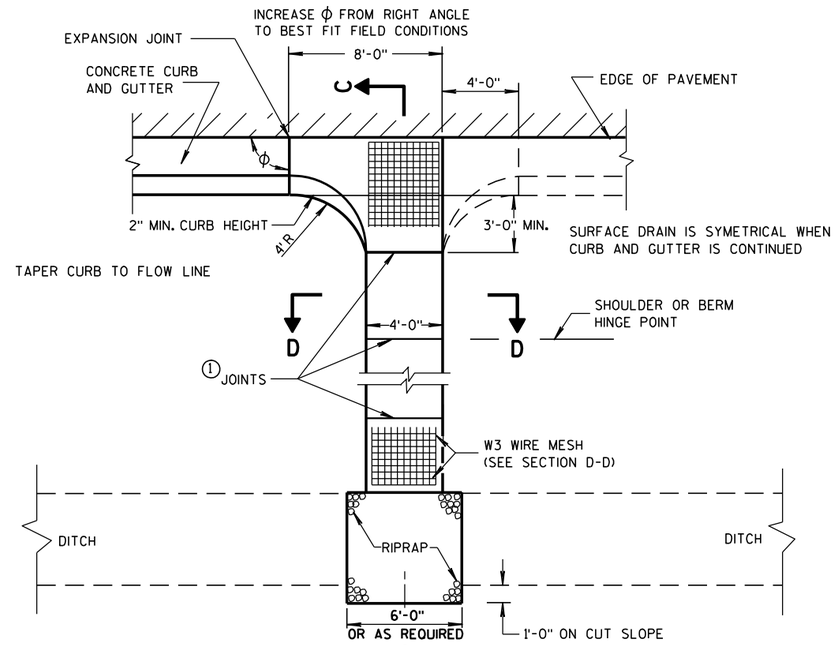
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE $\frac{1}{8}$ TO $\frac{1}{4}$ INCH WIDE BY $1\frac{1}{2}$ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

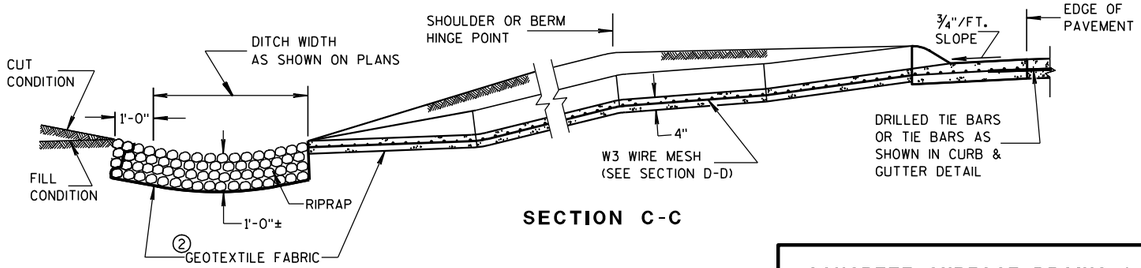
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

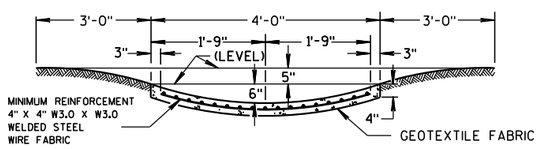
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9-4-08 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
MENT
FHWA

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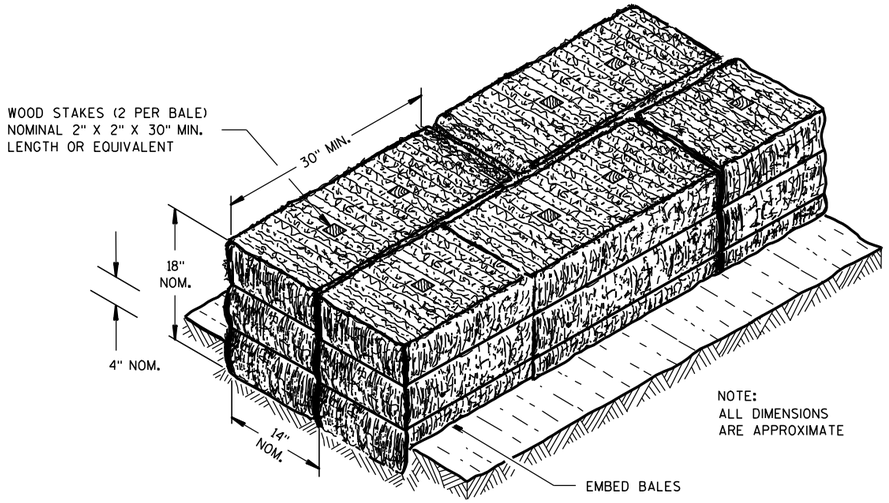
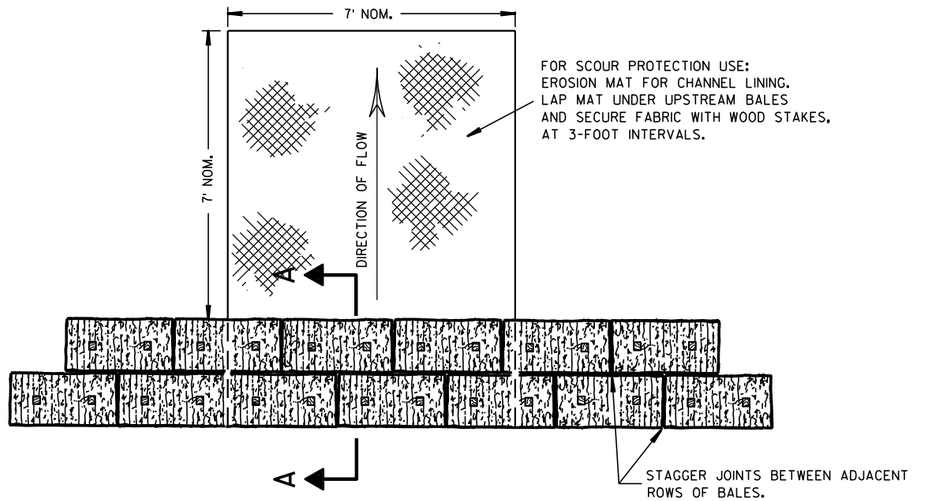
S.D.D. 8 D 4-5

6

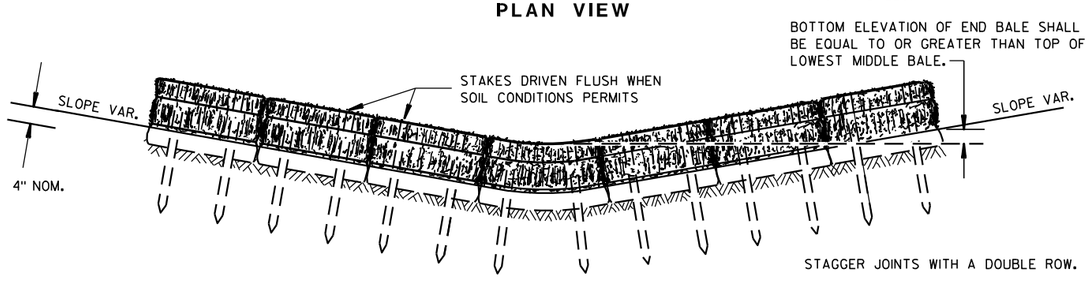
S.D.D. 8 D 4-5



SECTION A-A



PLAN VIEW



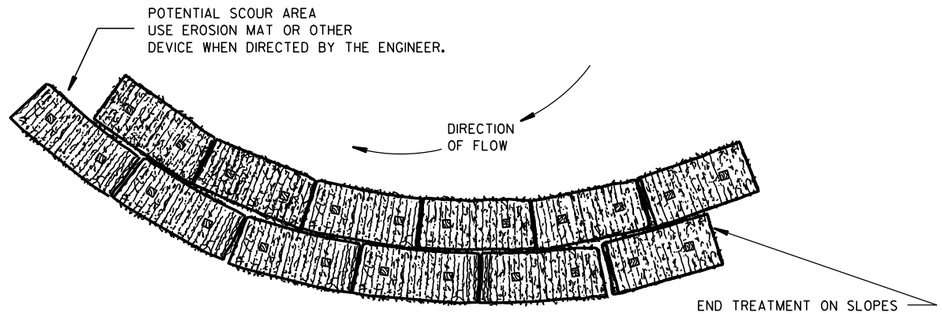
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

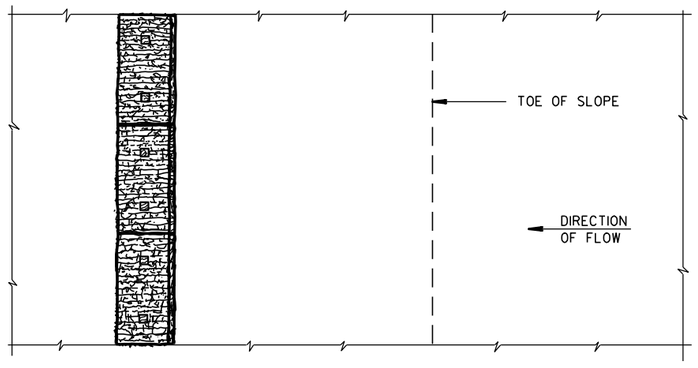
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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.

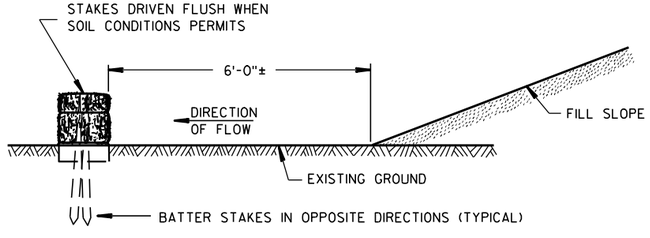


PLAN VIEW

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 DATE
/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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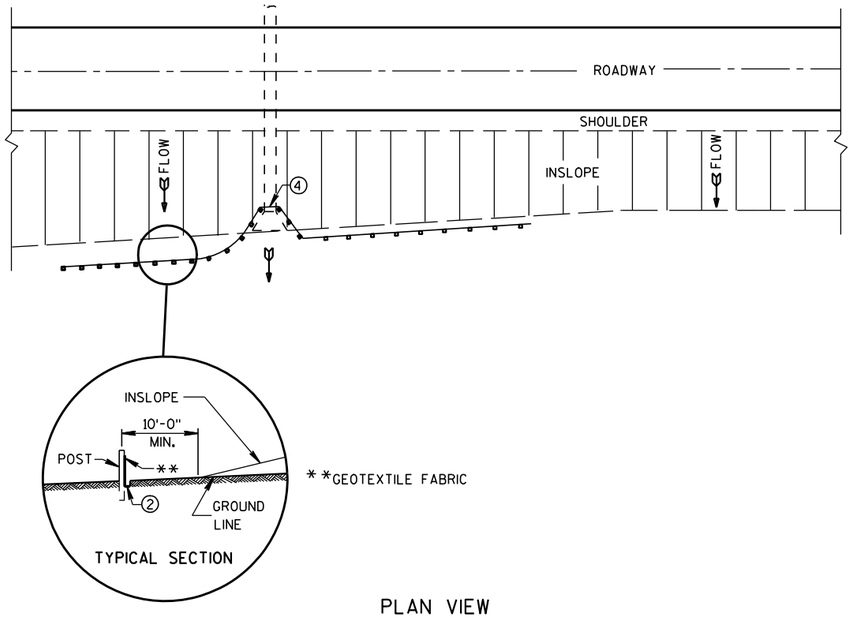
S.D.D. 8 E 8-3

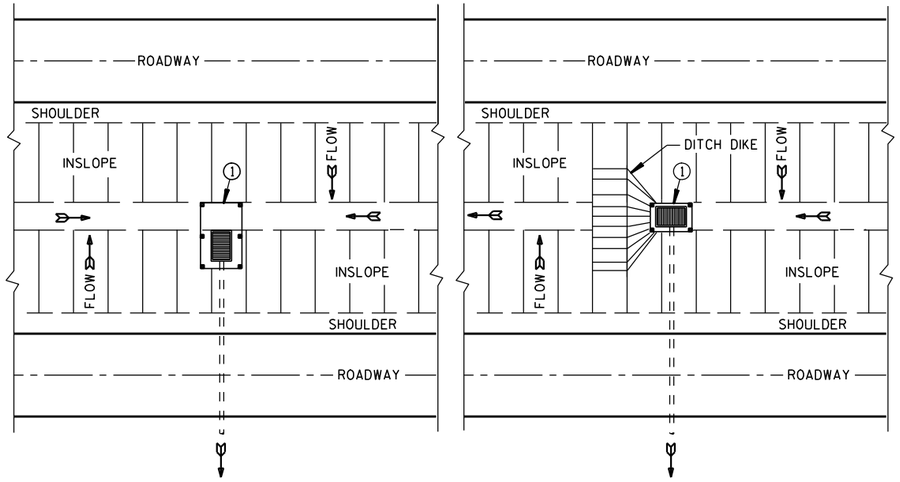
6

S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



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.

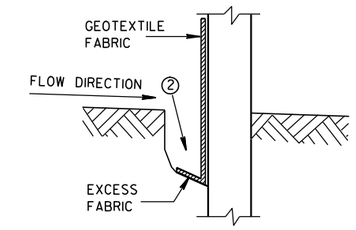
(1) HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

(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.

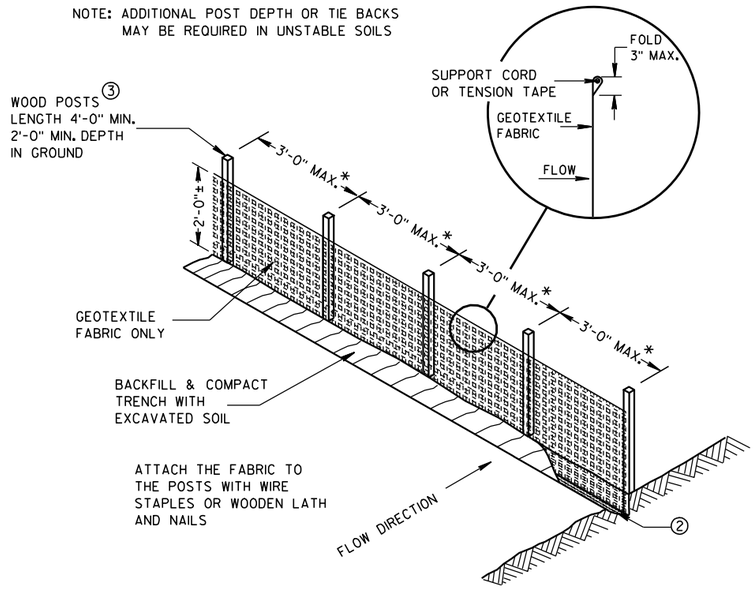
(3) WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

(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.

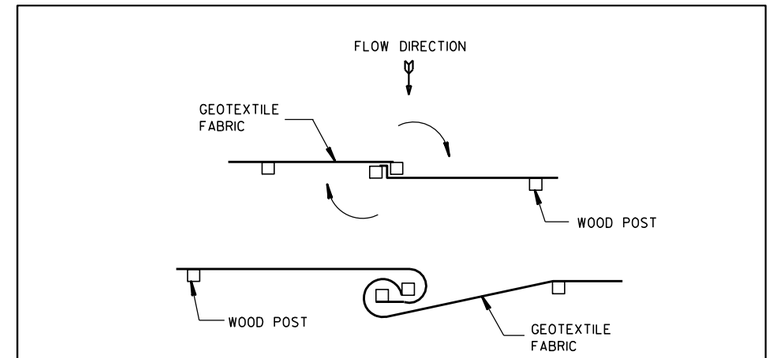


TRENCH DETAIL

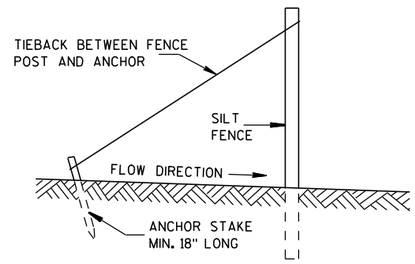


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE



JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

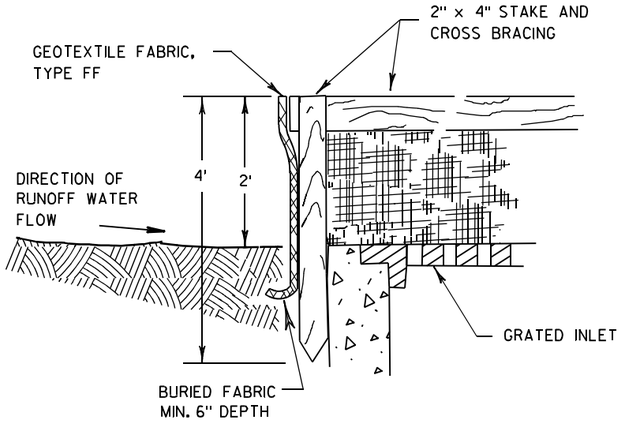
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

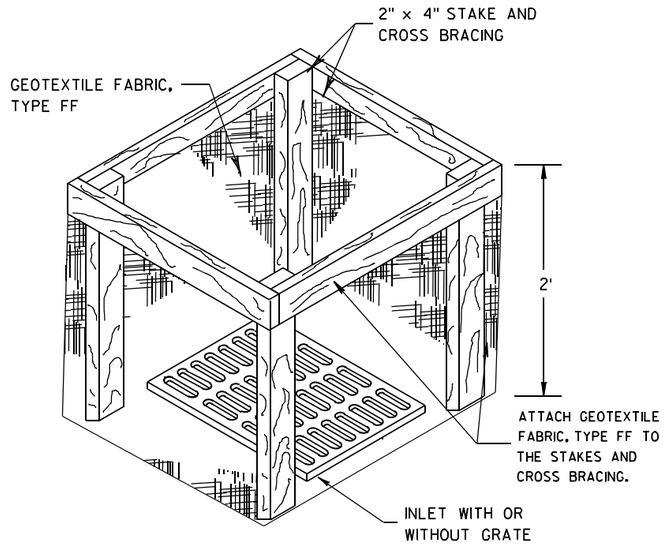
6

S.D.D. 8 E 9-6

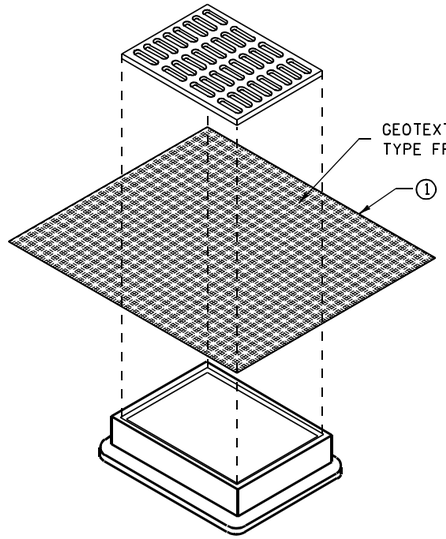
6

S.D.D. 8 E 9-6



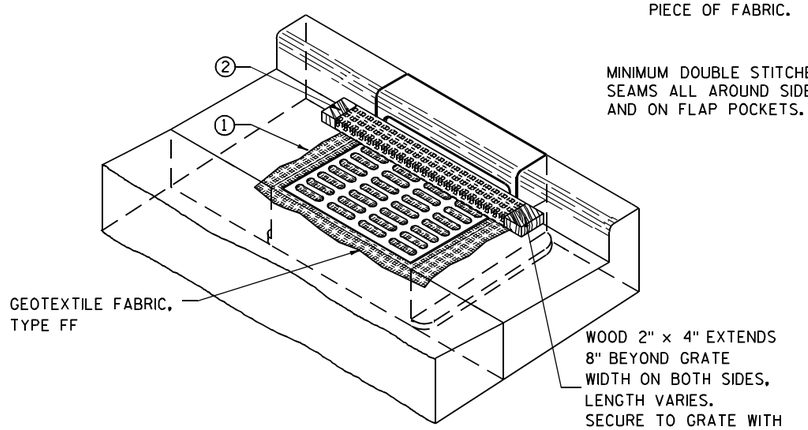


INLET PROTECTION, TYPE A

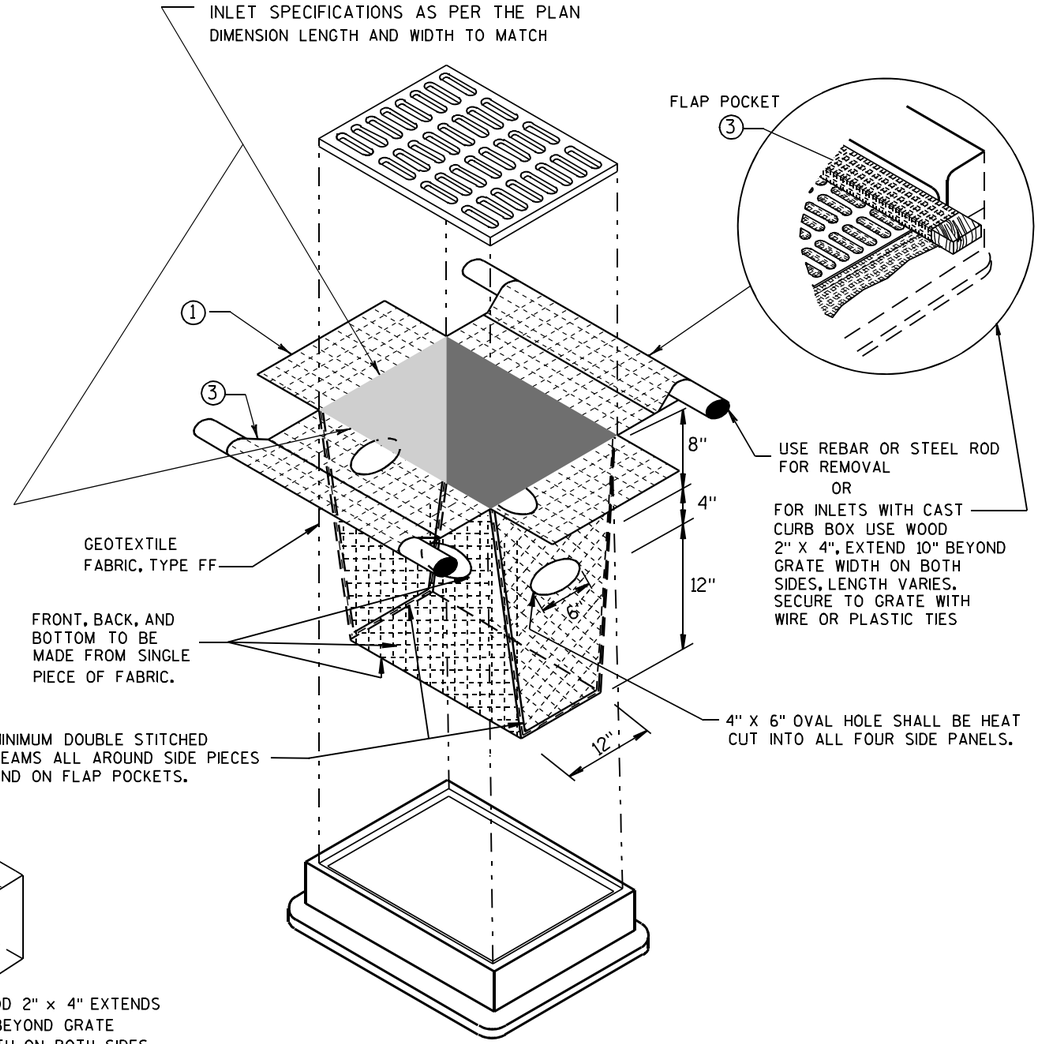


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

6
S.D.D. 8 E 10-2

METAL APRON ENDWALLS

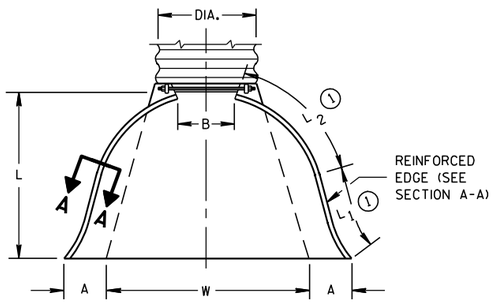
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	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	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

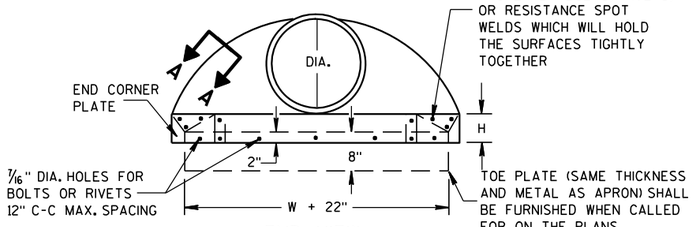
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	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 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

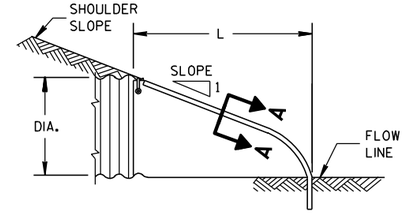
*MINIMUM
**MAXIMUM



PLAN VIEW

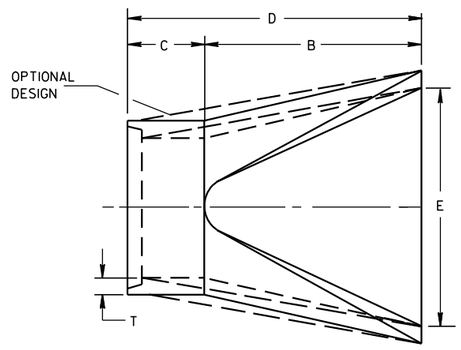


END VIEW

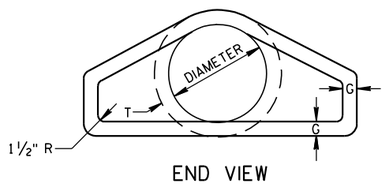


SIDE ELEVATION

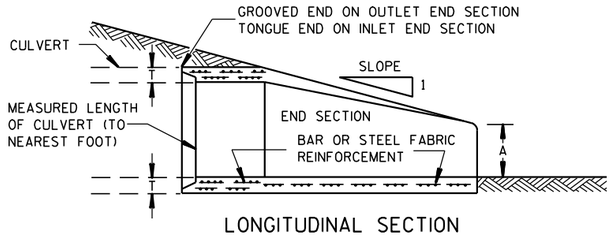
METAL ENDWALLS



PLAN

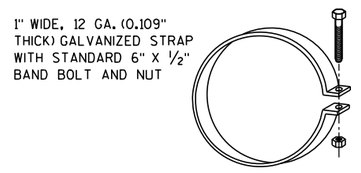


END VIEW



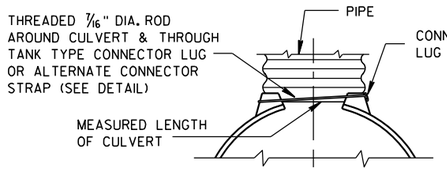
LONGITUDINAL SECTION

CONCRETE ENDWALLS

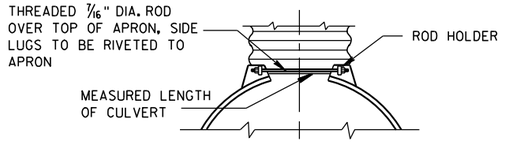


ALTERNATE FOR TYPE 1 CONNECTION

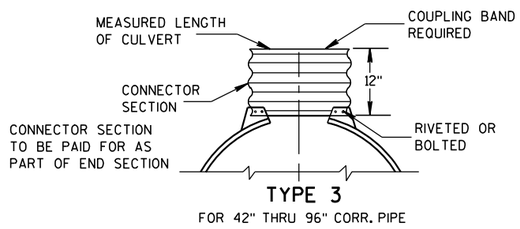
END SECTION CONNECTOR STRAP



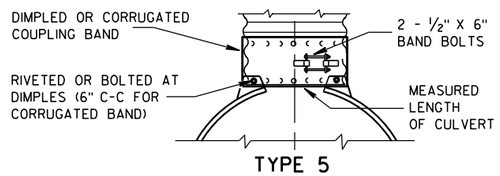
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

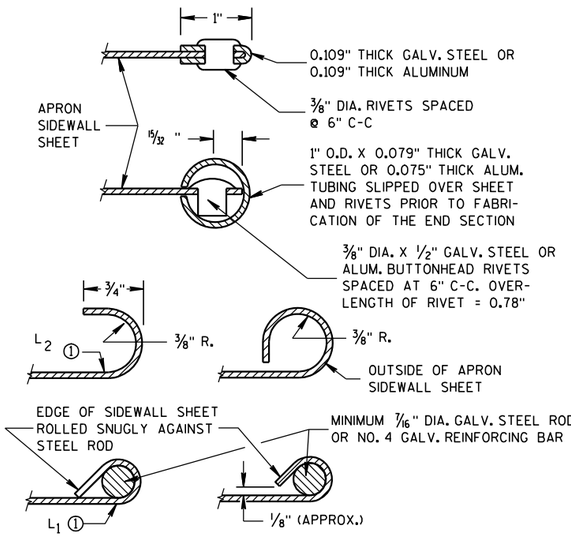
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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 VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

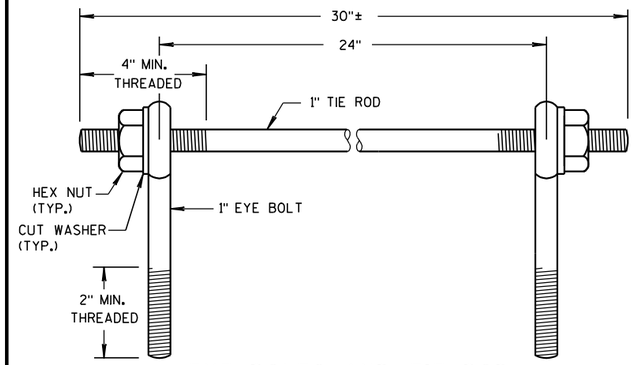
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

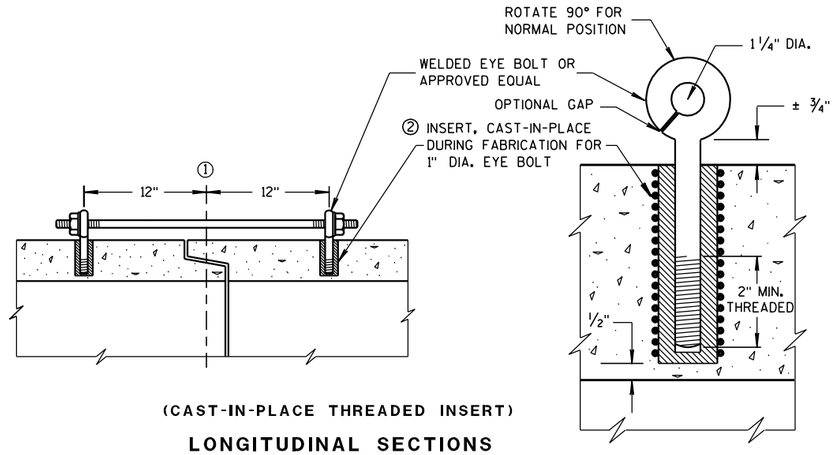
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

6
S.D.D. 8 F 1-11



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 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 APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

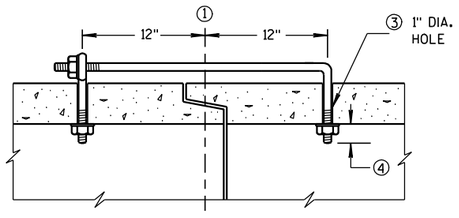
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

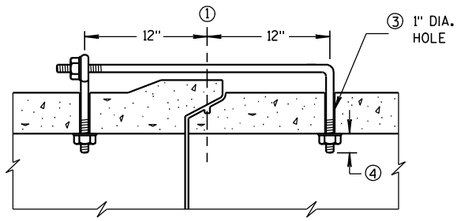
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

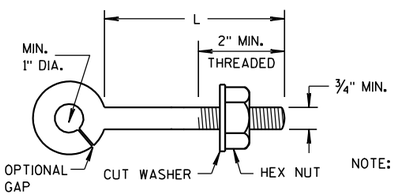


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

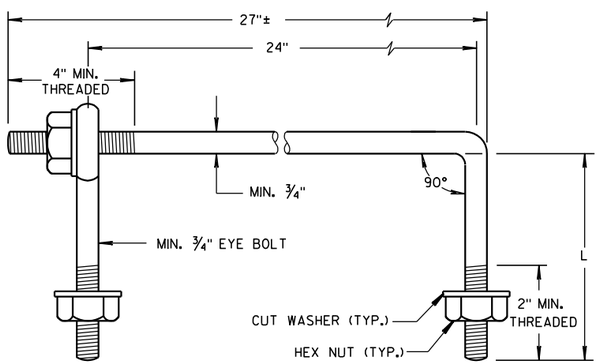
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

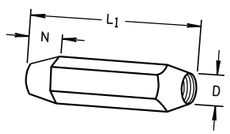
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

DIMENSIONS SHOWN ARE IN INCHES



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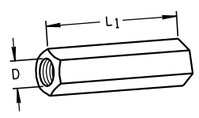
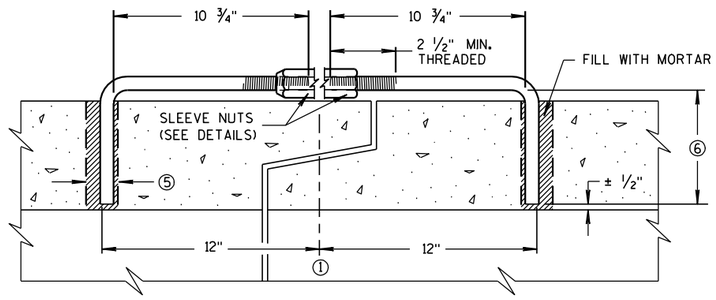


PLAIN

RIGHT AND LEFT THREADS

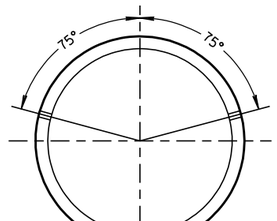
SLEEVE NUTS



LONGITUDINAL SECTION

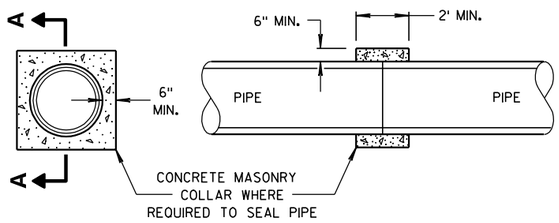
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

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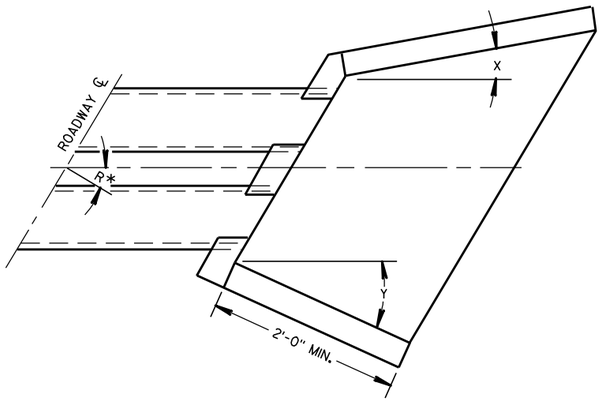
S.D.D. 8 F 4-7



WINGWALL ANGLE DETAILS

INLET			OUTLET		
R*	X	Y	R*	X	Y
0 - 7°	30°	30°	0 - 15°	15°	15°
8 - 22°	25°	"	16 - 45°	10°	"
23 - 37°	20°	"	46 - 75°	5°	"
38 - 52°	15°	"	OVER 75°	0°	"
53 - 67°	10°	"			
68 - 82°	5°	"			
OVER 82°	0°	"			

*R = NUMBER OF DEGREES RIGHT OR LEFT HAND FORWARD

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.

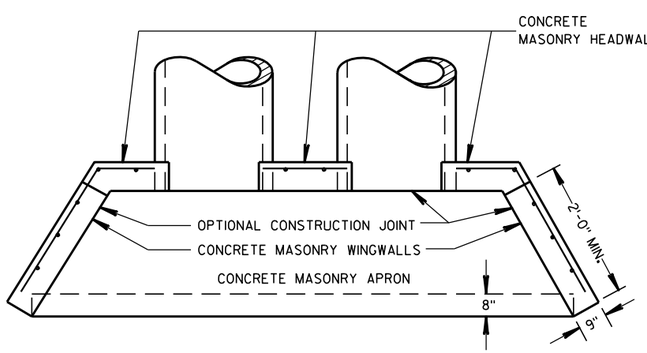
FILL SLOPES FLATTER THAN 2 ½:1 SHALL BE WARPED TO MEET THE TOP OF THE WINGWALLS.

ALL STEEL REINFORCEMENT AND WELDED STEEL WIRE FABRIC SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE NOTED.

(1) MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS SPACED 12" C-C IN BOTH DIRECTIONS.

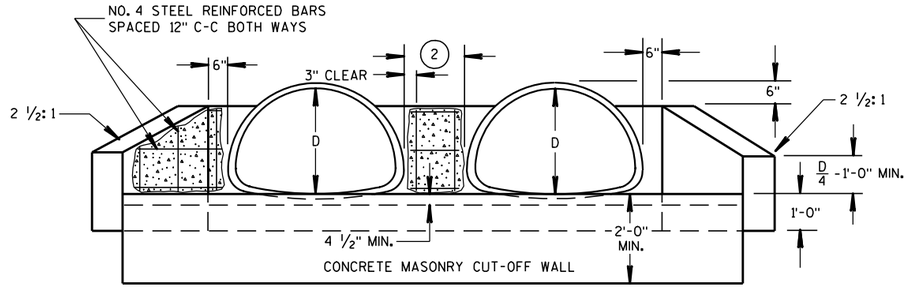
(2) THE SPACE BETWEEN PIPES SHALL BE AS FOLLOWS:

DIAMETER OR SPAN	SPACE
UP TO AND INCLUDING 48"	2'-0"
OVER 48" TO 72"	½ DIA. OR SPAN
OVER 72"	3'-0"



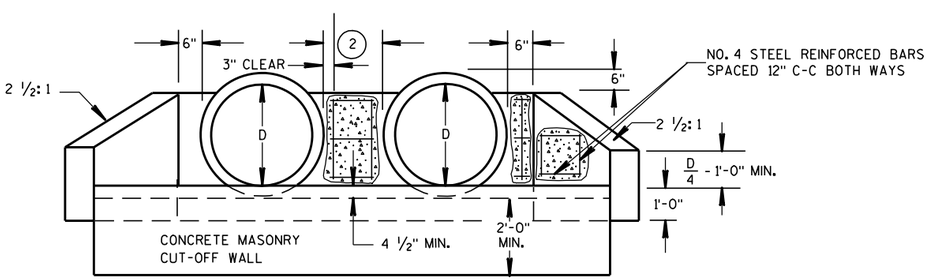
PLAN VIEW

CULVERT PIPE AND PIPE ARCH



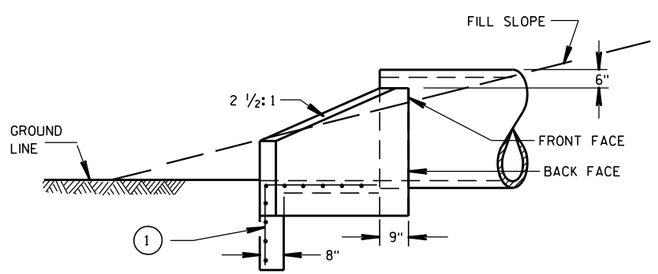
END ELEVATION

PIPE ARCH



END ELEVATION

CULVERT PIPE



SIDE ELEVATION

CULVERT PIPE AND PIPE ARCH

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

9/14/98 DATE

/S/ Rory L. Rhinehart
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

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S.D.D. 8 F 10-1

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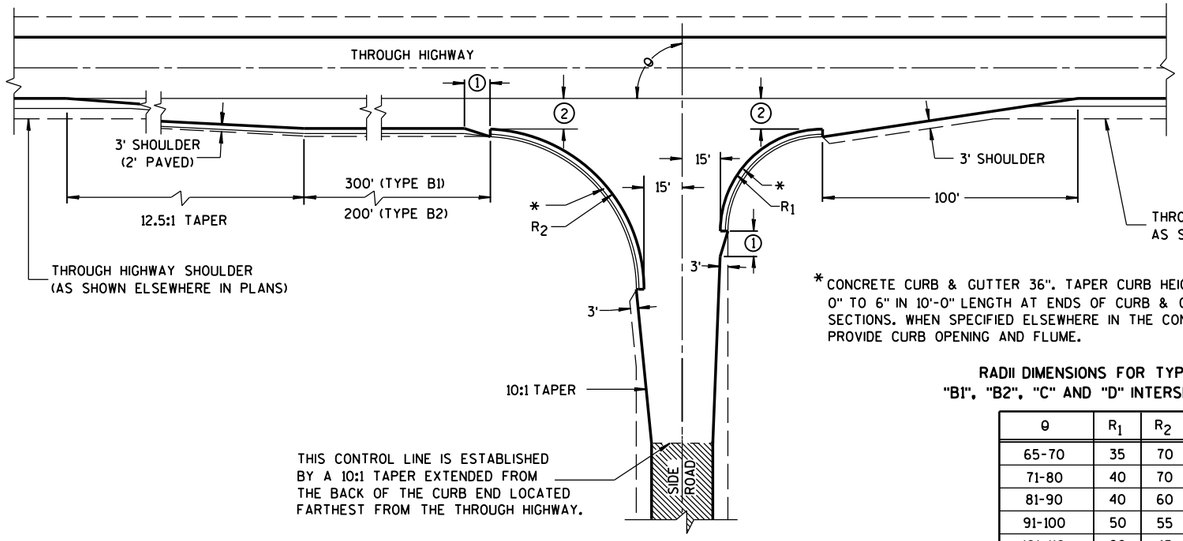
S.D.D. 8 F 10-1

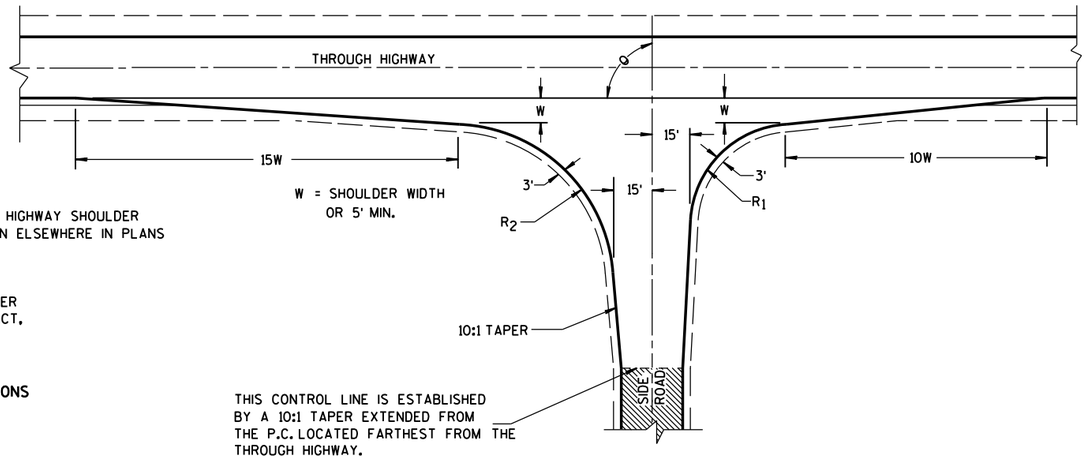


TYPE "B1" AND "B2"

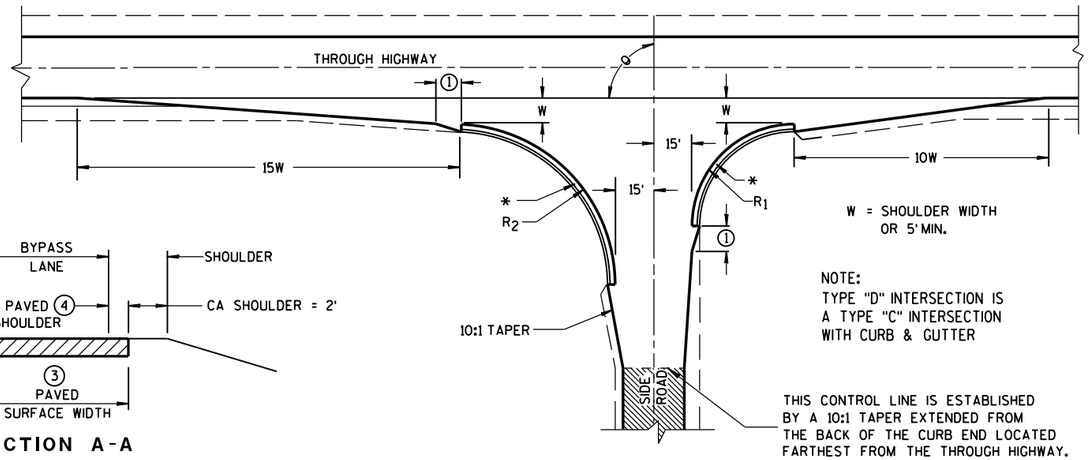
*CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

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

θ	R_1	R_2
65-70	35	70
71-80	40	70
81-90	40	60
91-100	50	55
101-110	60	45



TYPE "C"



TYPE "D"

GENERAL NOTES

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

SIDE ROAD SURFACING NOTE

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

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

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

EXISTING PAVED SURFACE

BYPASS LANE

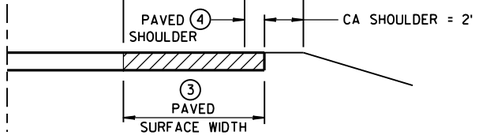
(1) 10-FT TYPICAL.

(2) 12-FT** PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLAN.

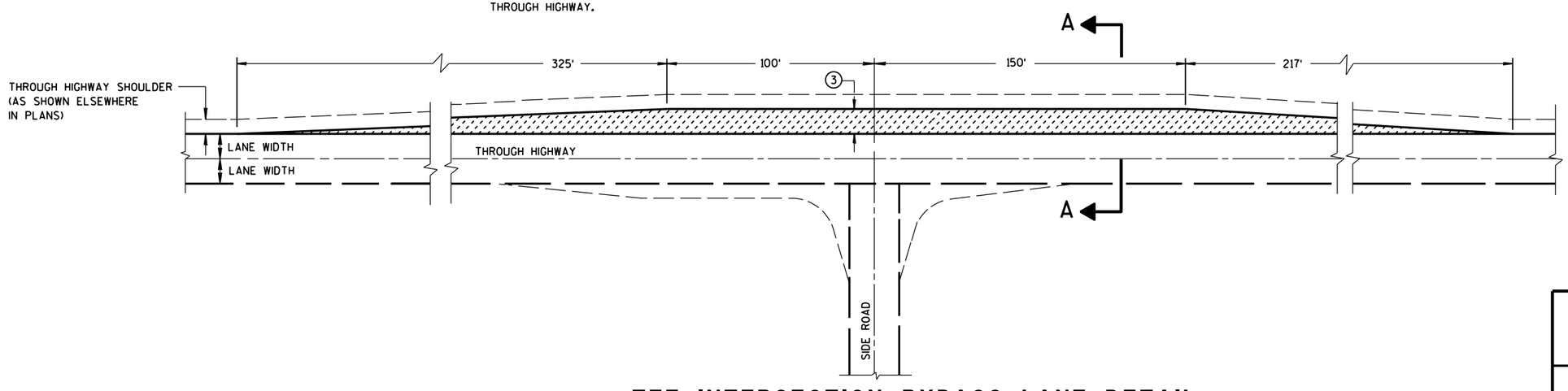
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.

(3) BYPASS LANE PAVED SURFACE WIDTH OUTSIDE OF TRAVEL LANE
-ASPHALT = 12-FT PLUS PAVED SHOULDER WIDTH.
-PC CPNCRETE = 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.



SECTION A-A
(SHOWING BYPASS LANE AND SHOULDER)

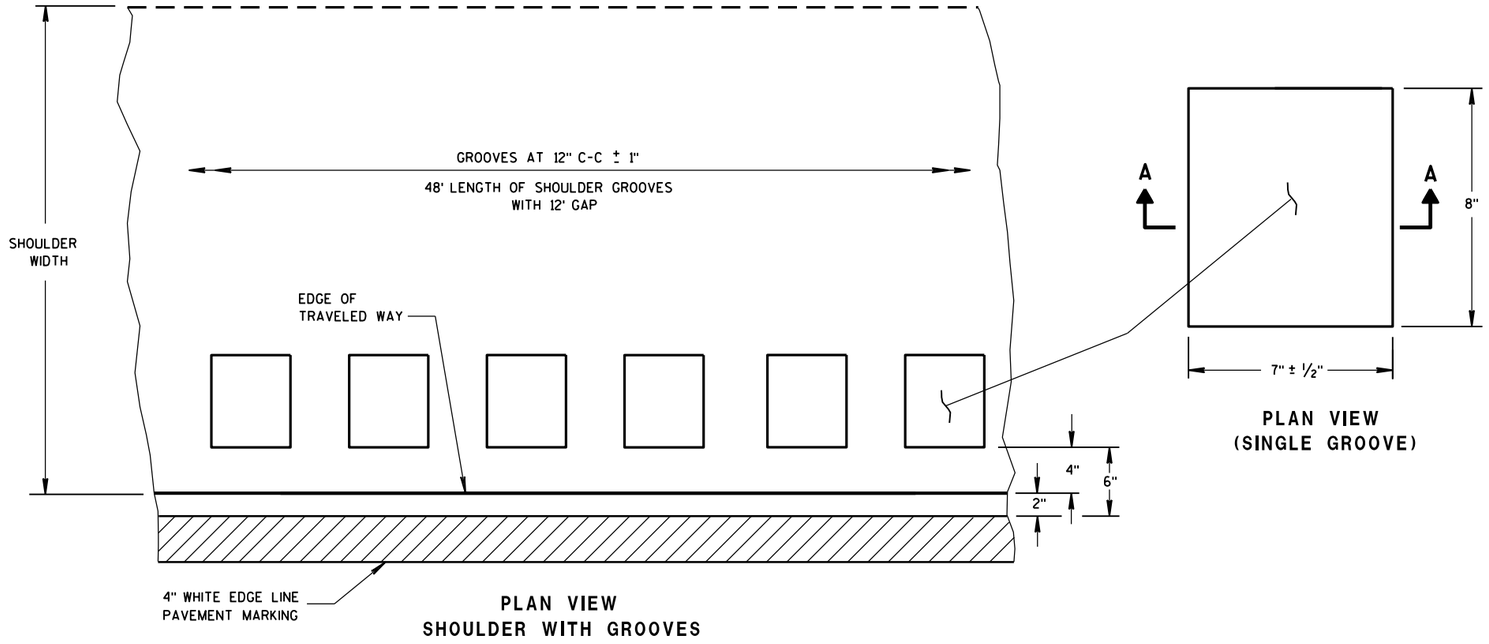


TEE INTERSECTION BYPASS LANE DETAIL

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6
S.D.D. 9 A 1-13a



PLAN VIEW
SHOULDER WITH GROOVES

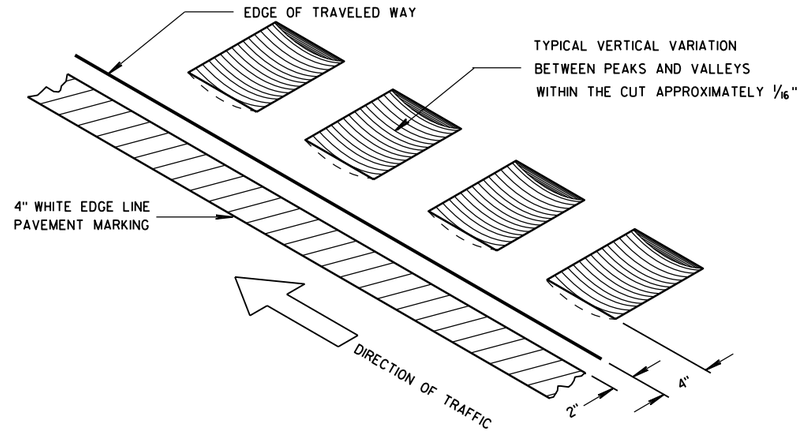
PLAN VIEW
(SINGLE GROOVE)

GENERAL NOTES

DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

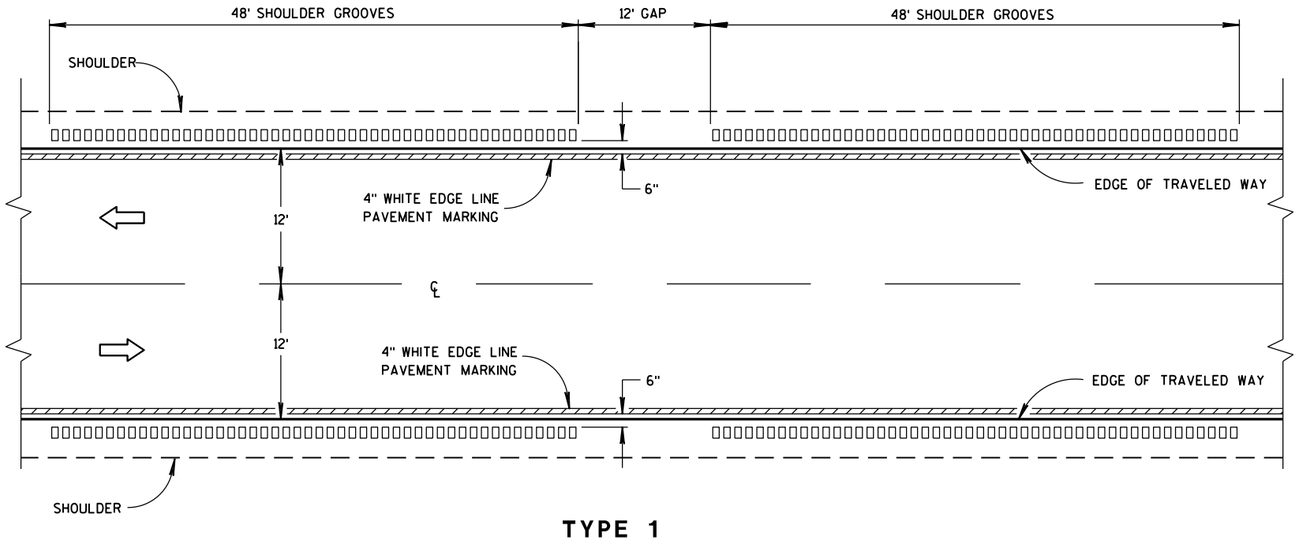
DO NOT MILL SHOULDER GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

(1) SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.

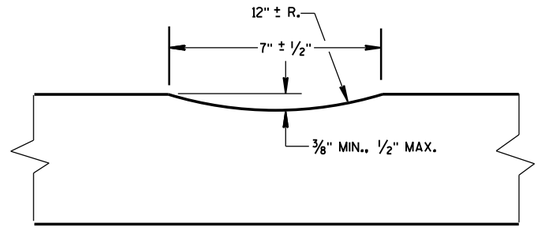


ISOMETRIC

PLACEMENT DETAIL FOR TYPE 1 MILLED RUMBLE STRIP



TYPE 1
2-LANE SHOULDER RUMBLE STRIP



SECTION A-A

2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING

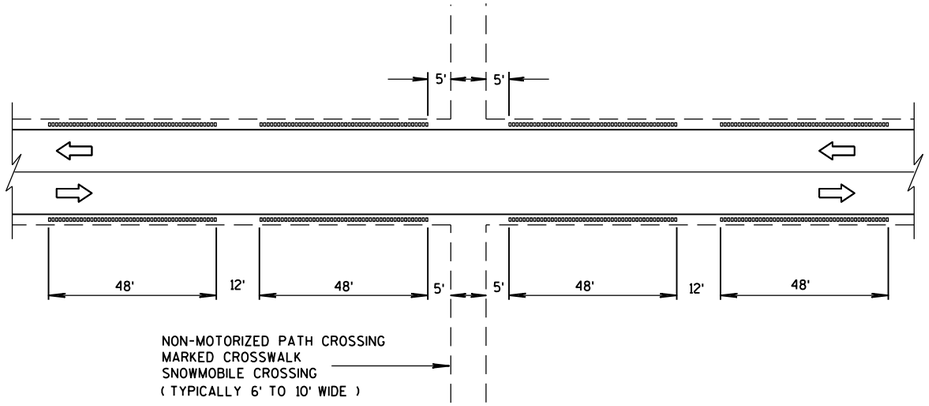
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

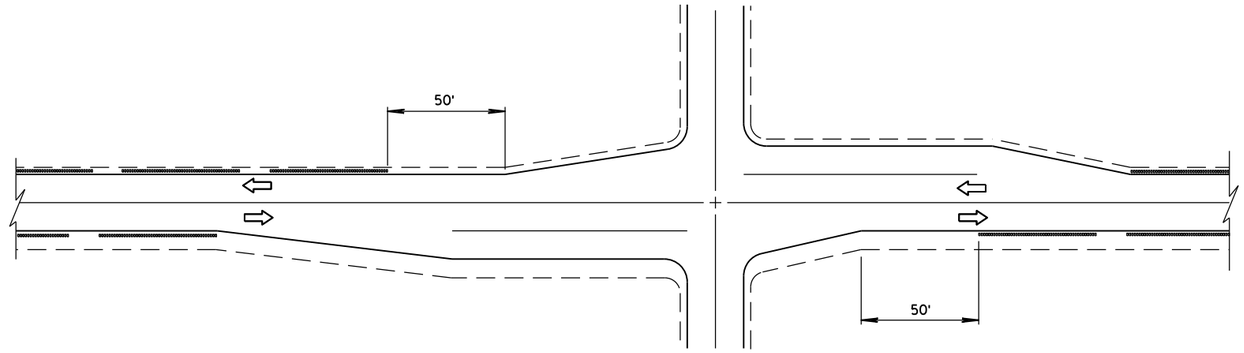
S.D.D. 13 A 10-1a

6

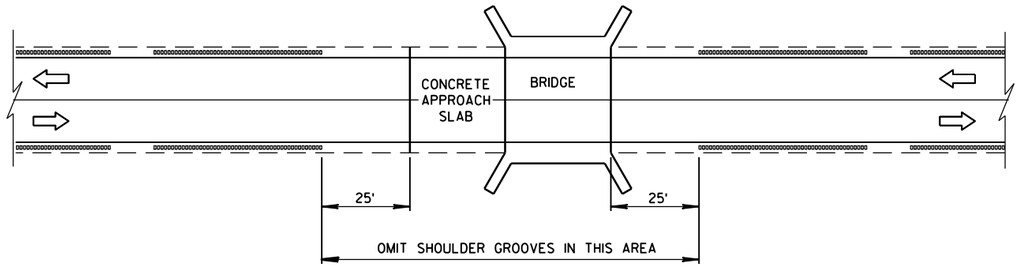
S.D.D. 13 A 10-1a



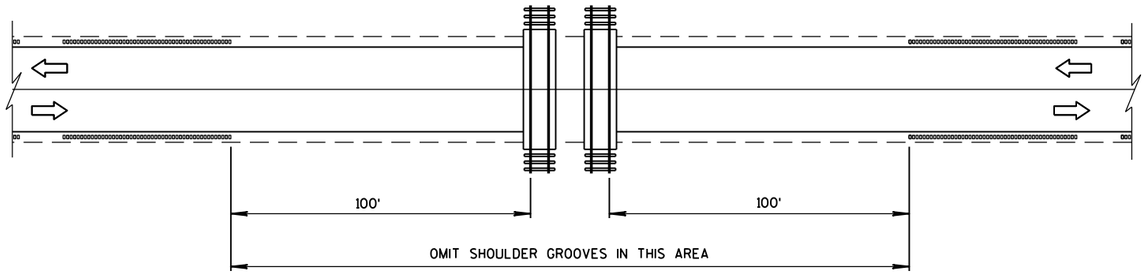
SHOULDER GROOVES AT MISCELLANEOUS CROSSINGS



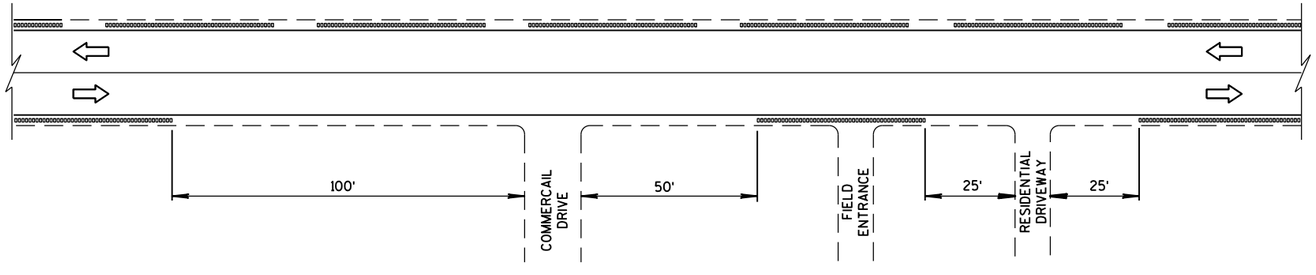
SHOULDER GROOVES AT INTERSECTIONS



SHOULDER GROOVES AT BRIDGES



SHOULDER GROOVES AT RAILROADS

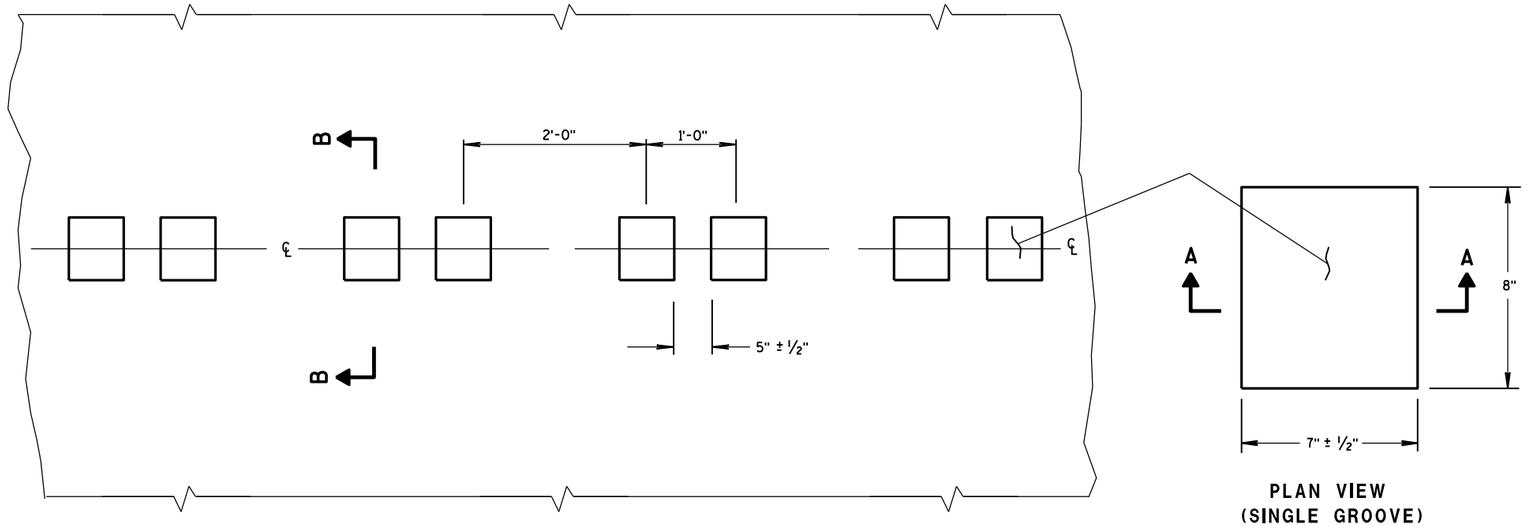


SHOULDER GROOVES AT DRIVEWAYS (1)

2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 13 A 10-1c



PLAN VIEW
CENTER LINE WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR MILLED RUMBLE STRIP

GENERAL NOTES

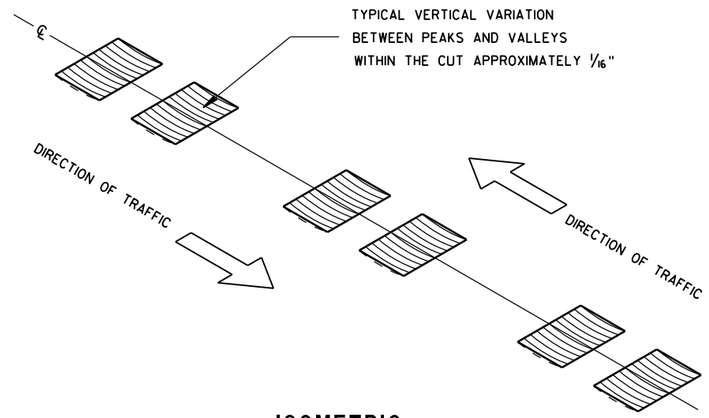
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

DO NOT MILL CENTER LINE GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



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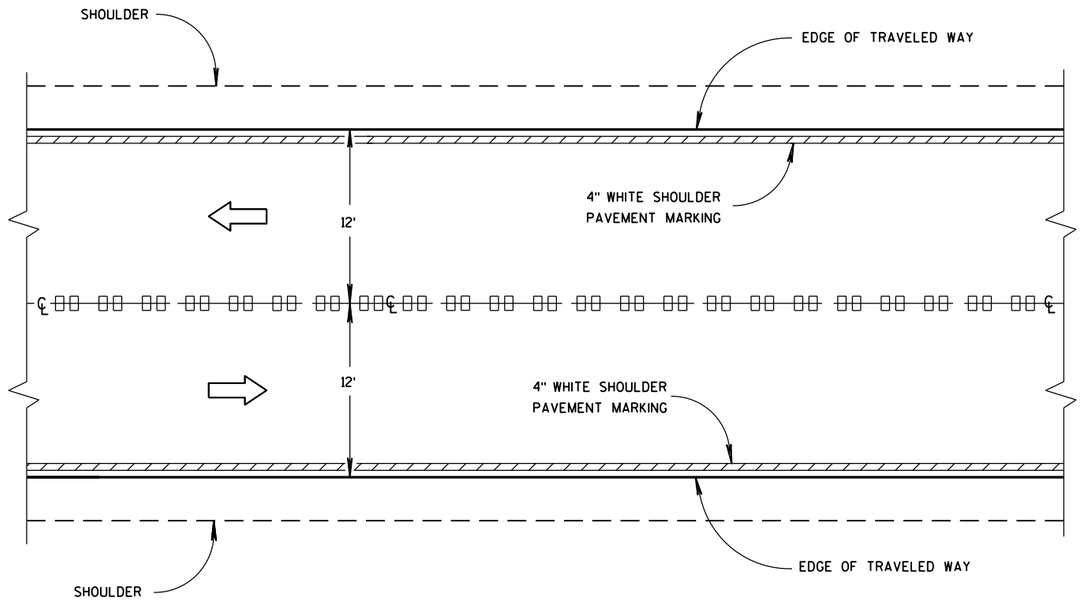
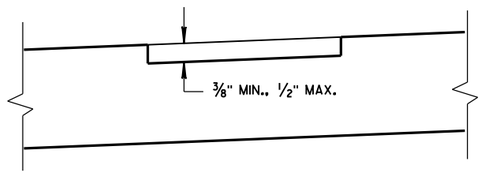
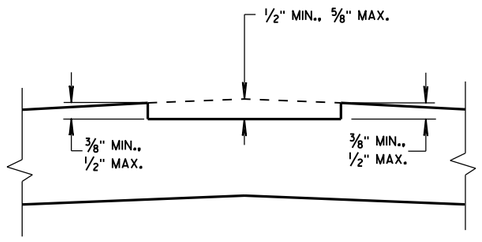


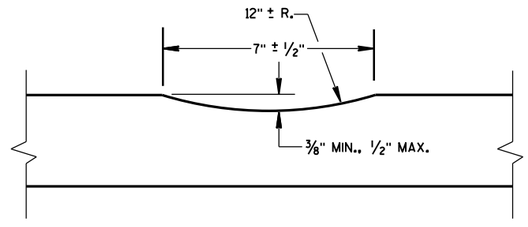
CENTER LINE GROOVES ON TWO-WAY ROADWAYS



SECTION B-B
SUPERELEVATED ROADWAY



SECTION B-B
CROWNED ROADWAY



SECTION A-A

2-LANE RURAL
CENTER LINE RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 13 A 11-2a

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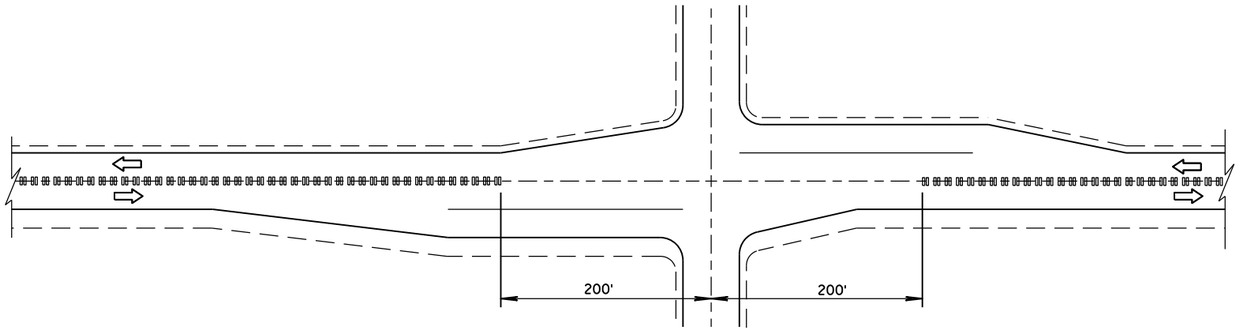
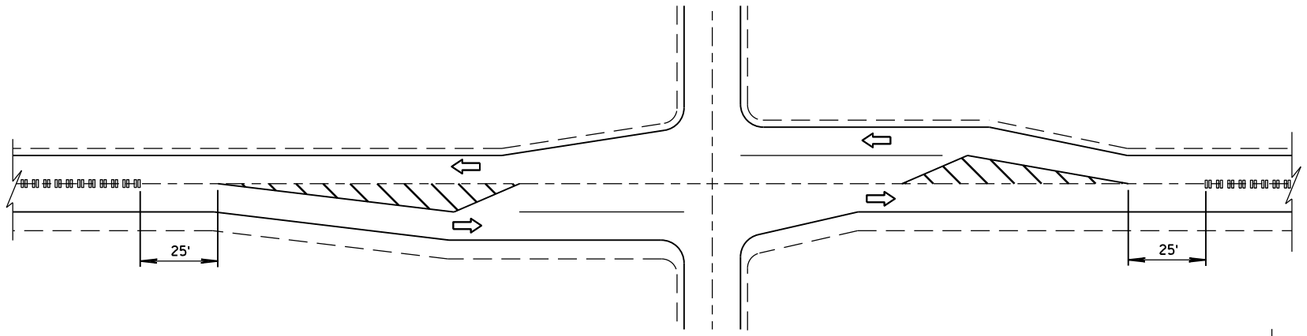
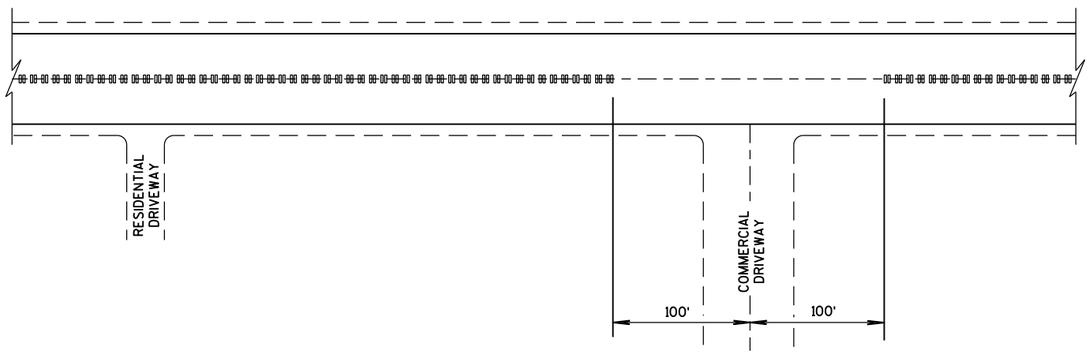
S.D.D. 13 A 11-2a



CENTER LINE GROOVES AT INTERSECTIONS

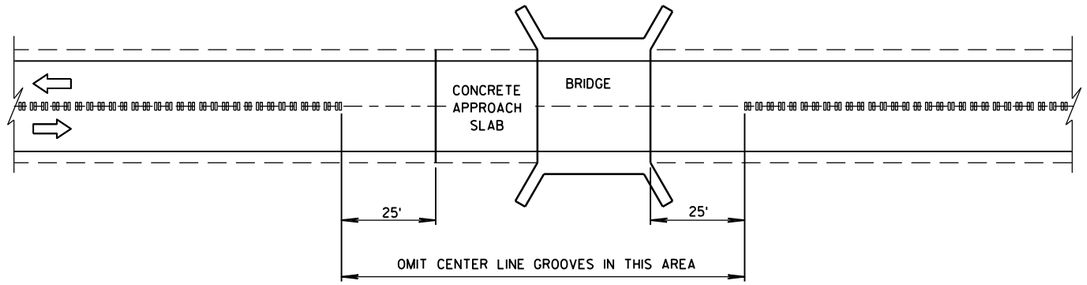


CENTER LINE GROOVES AT INTERSECTIONS
(WITH LEFT TURN LANES)

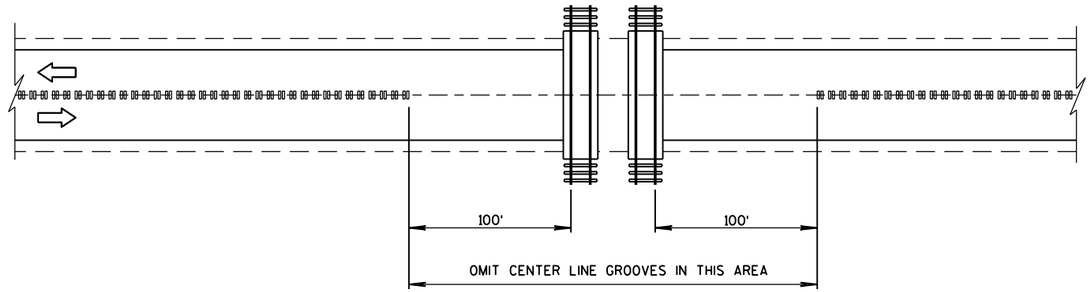


CENTER LINE GROOVES AT DRIVEWAYS (1)

(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



CENTER LINE GROOVES AT BRIDGES



CENTER LINE GROOVES AT RAILROADS

6

S.D.D. 13 A 11-2b

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S.D.D. 13 A 11-2b

2-LANE RURAL
CENTER LINE RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/15/2013
DATE

/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER

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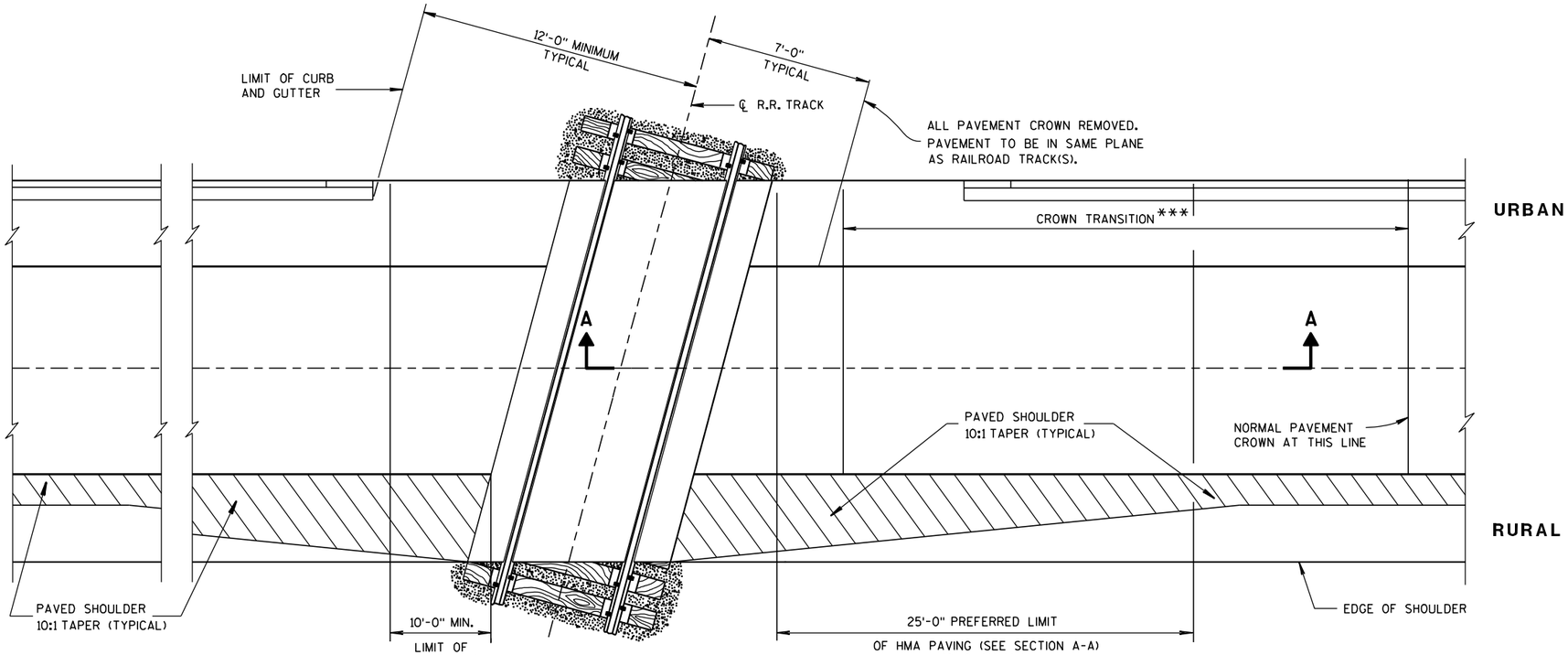
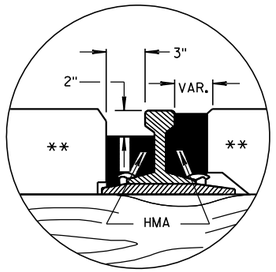
FHWA





DETAIL B

HMA FLANGEWAY AND FIELD FILLERS

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.

TIMBER, CONCRETE OR RUBBER CROSSING SURFACE MATERIAL, RAILS, TIES, BALLAST, GEOTEXTILE FABRIC AND CROSSING DRAINAGE SYSTEM BY OTHERS UNLESS OTHERWISE PROVIDED.

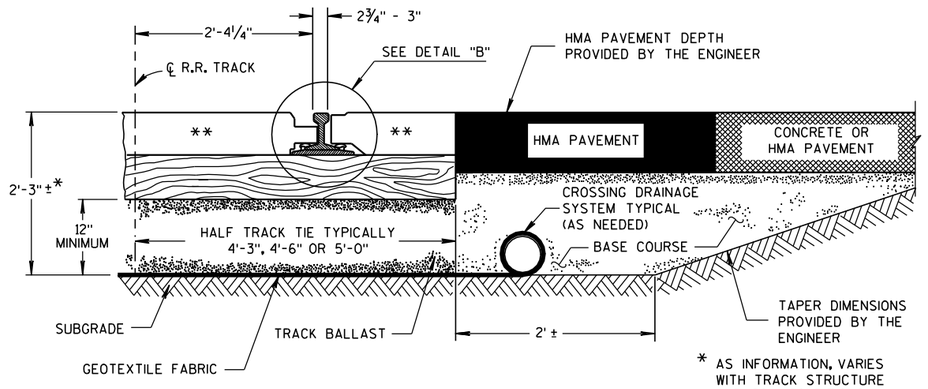
HMA PAVEMENT APPROACHES AND HMA PAVEMET CROSSING SURFACES TO BE PLACED BY CONTRACTOR UNLESS OTHERWISE PROVIDED.

HMA FLANGEWAY AND FIELD FILLERS TO BE PLACED AND THOROUGHLY HAND COMPACTED BY THE CONTRACTOR WHEN NOT PROVIDED BY OTHERS. SEE DETAIL B. HMA FILLERS NOT REQUIRED WHEN RUBBER FILLERS ARE PROVIDED.

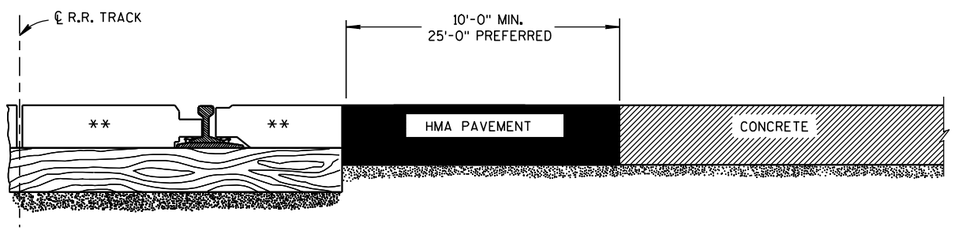
HMA PAVEMENT SHALL BE ROLLED PARALLEL TO THE TRACK.

** CROSSING SURFACE MAY BE TIMBER, RUBBER, CONCRETE, HMA PAVEMENT OR A COMBINATION OF SUCH MATERIALS.

*** CROWN TRANSITION LENGTH SHOWN ELSEWHERE IN THE PLAN.



TYPICAL HALF SECTION



SECTION A-A

CONCRETE PAVEMENT APPROACH

SECTION A-A

HMA PAVEMENT APPROACH

EXAMPLES OF PAVEMENT APPROACHES

PAVEMENT DETAILS FOR RAILROAD APPROACH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8-28-09 DATE
/S/ Ronald E. Adams
CHIEF, RAILROADS & HAI CTION
FHWA

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S.D.D. 13 B 1-10

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S.D.D. 13 B 1-10

(1) WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

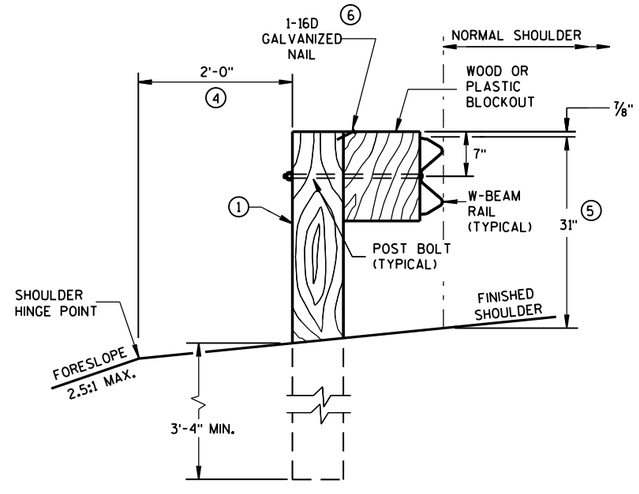
(2) USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2½ INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

(4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

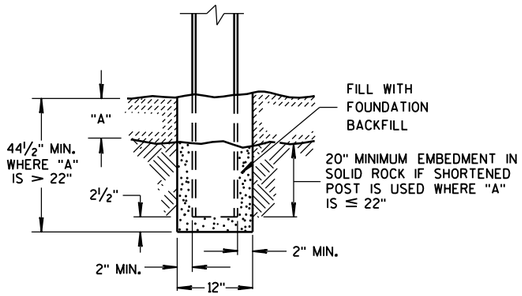
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".

(6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.



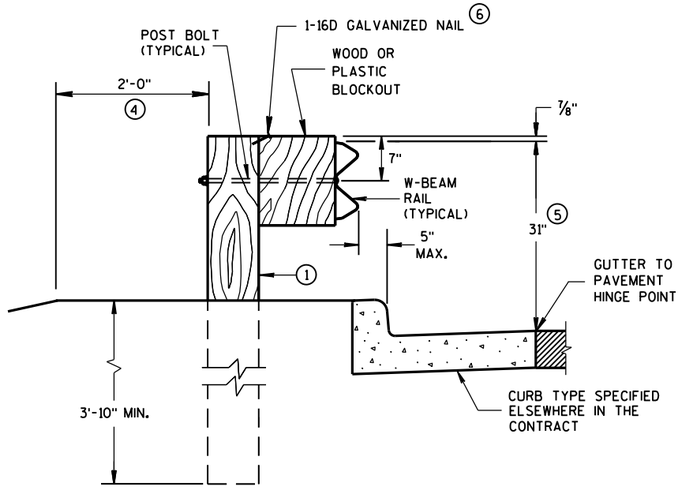
END VIEW

LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



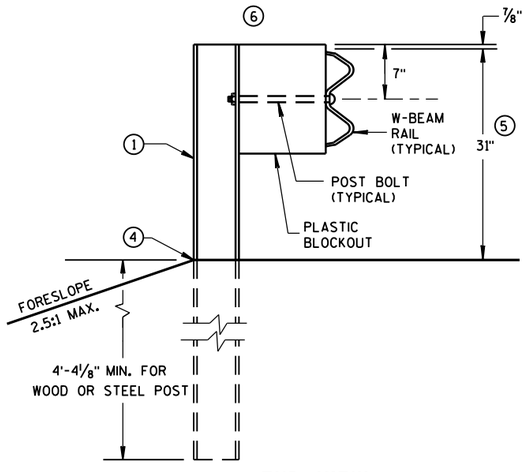
END VIEW

SETTING STEEL OR WOOD POST IN ROCK (3)



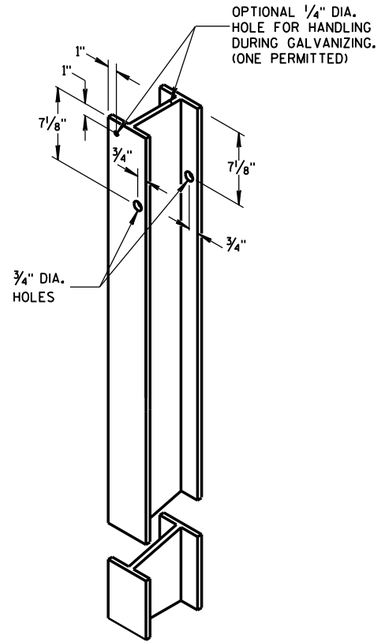
END VIEW

LOCATED ALONG A CURBED ROADWAY

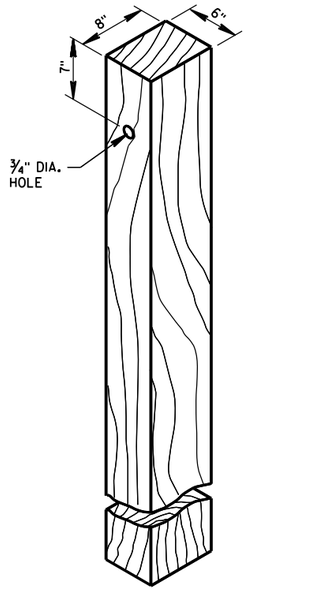


END VIEW

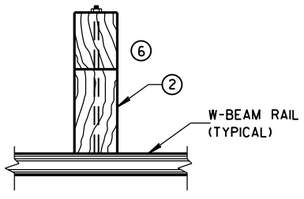
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



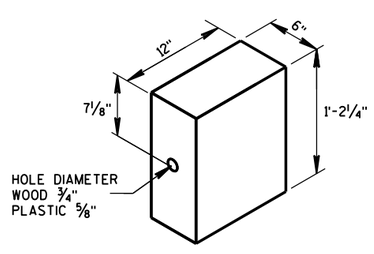
STEEL POST &
HOLE PUNCHING DETAIL
(w6X9) (1)



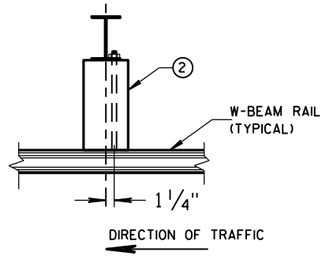
WOOD POST
(6" X 8") NOMINAL (1)



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



WOOD OR
PLASTIC BLOCKOUT (2)



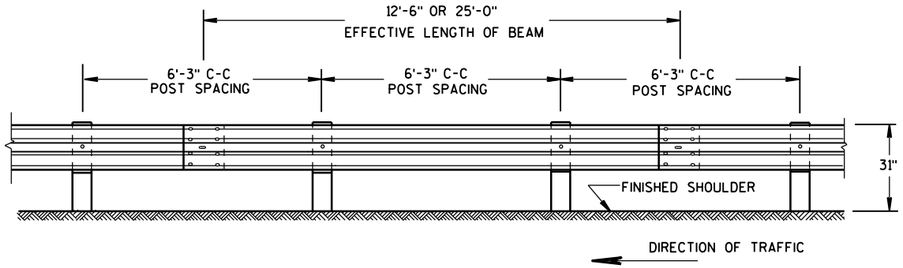
PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

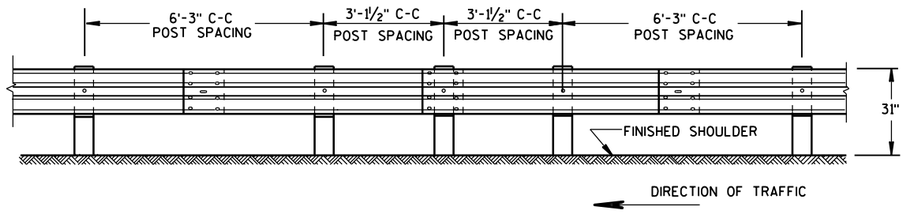
6

S.D.D. 14 B 42-5a



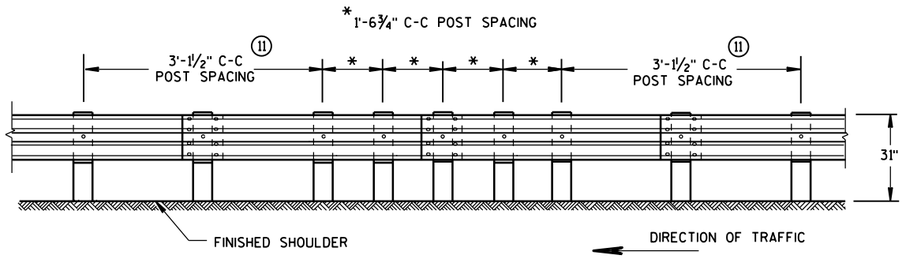
FRONT VIEW

POST SPACING STANDARD INSTALLATION



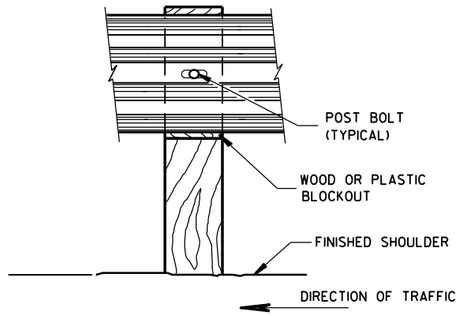
FRONT VIEW

HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)

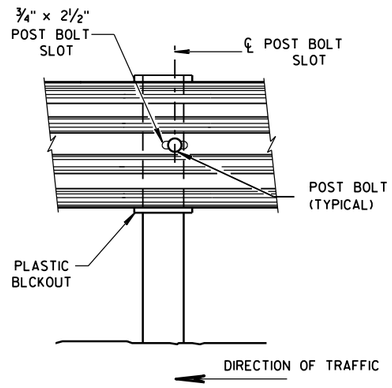


FRONT VIEW

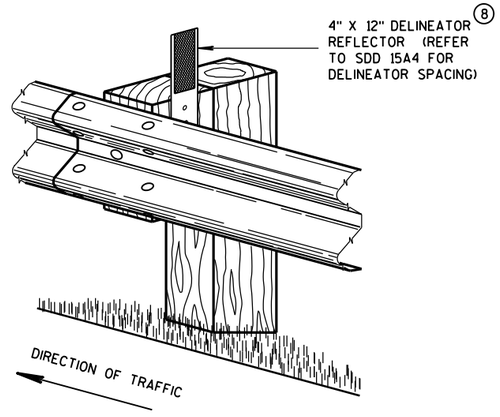
QUARTER POST SPACING (QS)



FRONT VIEW AT WOOD POST



FRONT VIEW AT STEEL POST



ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

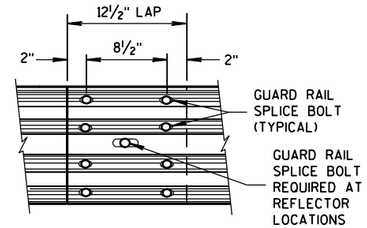
GENERAL NOTES

(8) DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL. RAIL SPLICE LOCATIONS ARE THE ONLY ACCEPTABLE LOCATIONS FOR REFLECTORS.

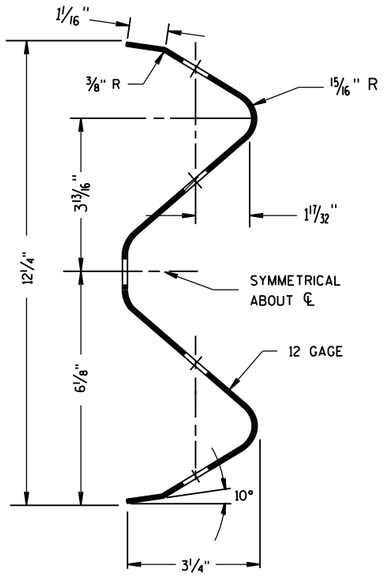
(11) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND ⅝" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



FRONT VIEW
MID-SPAN BEAM SPLICE



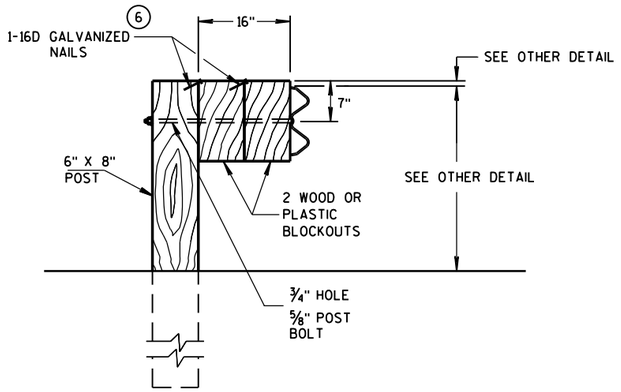
SECTION THRU W-BEAM RAIL

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

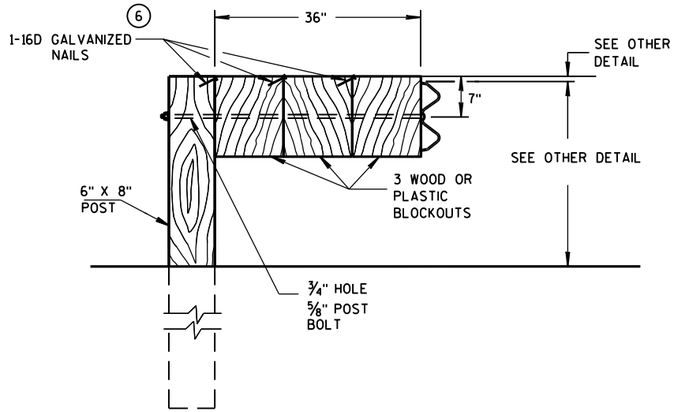
6

S.D.D. 14 B 42-5b



DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

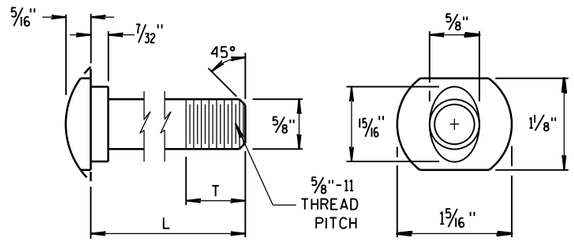


DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

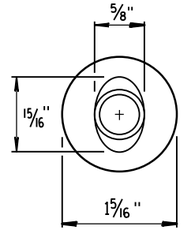
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 1/16".
2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

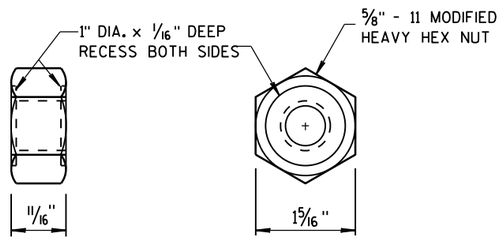


POST BOLT TABLE

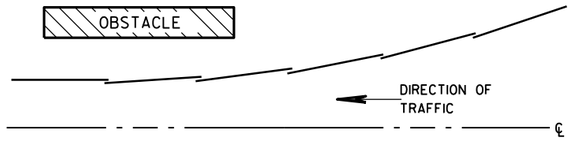
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



ALTERNATE BOLT HEAD

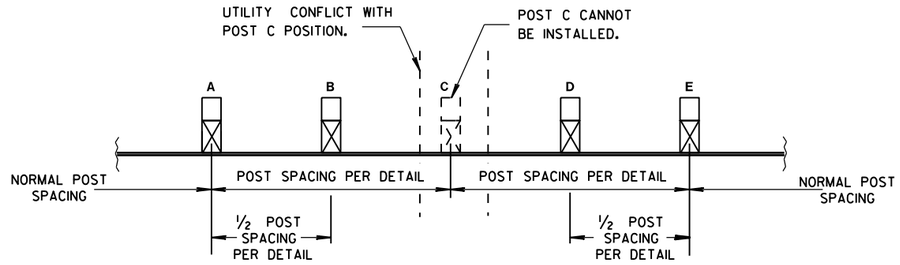


POST BOLT, SPLICE BOLT AND RECESS NUT

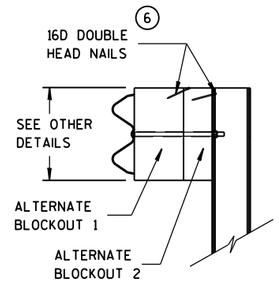


PLAN VIEW

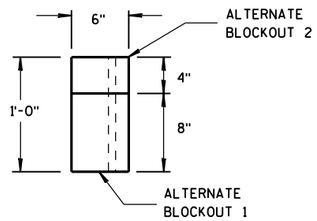
BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



SIDE VIEW



TOP VIEW

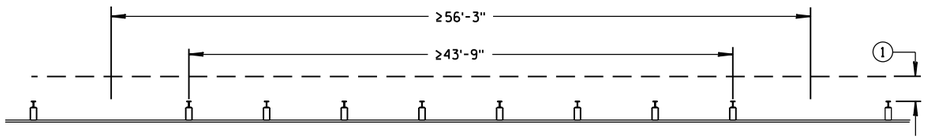
ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

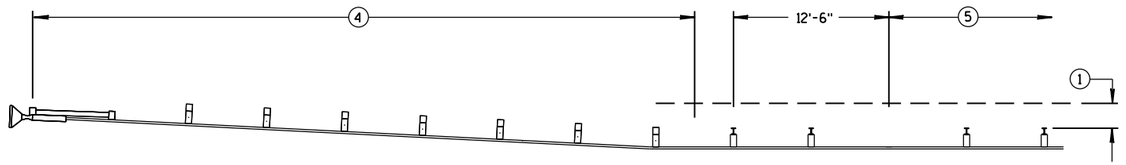
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

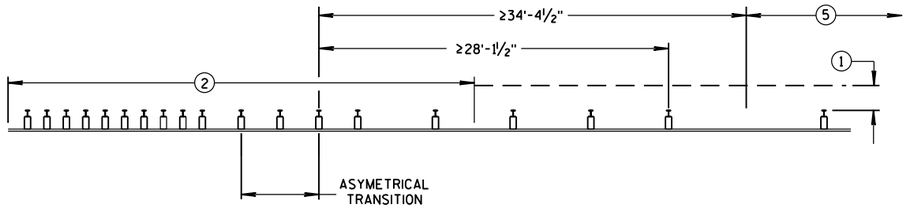
S.D.D. 14 B 42-5c



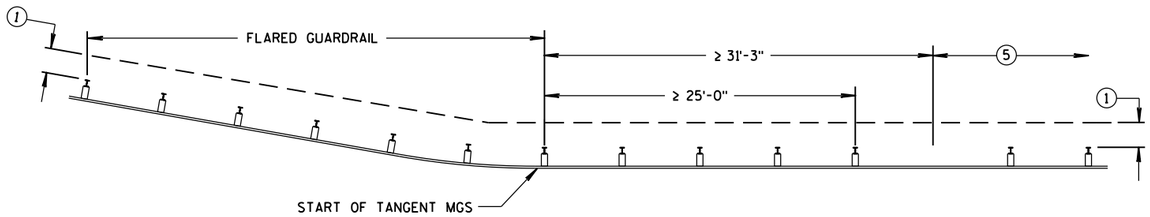
MISSING POST IN NORMAL BEAM GUARD RUN



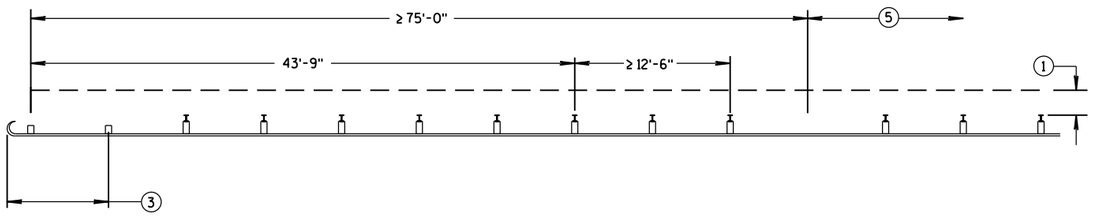
MISSING POST IN NORMAL BEAM GUARD RUN NEAR EAT



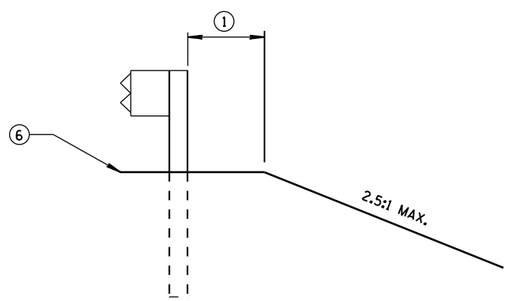
MISSING POST NEAR APPROACH THRIE BEAM TRANSITION



MISSING POST IN NORMAL BEAM GUARD RUN
NEAR FLARED BEAM GUARD



MISSING POST IN NORMAL BEAM GUARD RUN
NEAR TYPE 2 TERMINAL



CROSS SECTION VIEW

(1) MINIMUM OF 2 FEET OF GRADING BEHIND POST.

(2) SEE SDD 14B45 FOR MORE DETAILS.

(3) SEE SDD 14B47 FOR MORE DETAILS.

(4) SEE SDD 14B44 FOR MORE DETAILS.

(5) SEE MISSING POST IN NORMAL BEAM GUARD RUN FOR DISTANCE TO NEXT MISSING POST AND AREA FOR WELL DRAINED, COMPACTED SOILS.

(6) SEE PLAN FOR SHOULDER DESIGN.

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

6

S.D.D. 14 B 42-5d

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S.D.D. 14 B 42-5d

GENERAL NOTES

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL), AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED.

(C) DIFFERENT MANUFACTURES REQUIRE DIFFERENT PERFORATED W-BEAM RAIL END PANELS. SEE MANUFACTURES INFORMATION.

(F) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS. ONE SCREW PER CORNER.

(H) HARDWARE VARIES BETWEEN DIFFERENT MANUFACTURES. SEE MANUFACTURE'S DRAWING FOR INFORMATION.

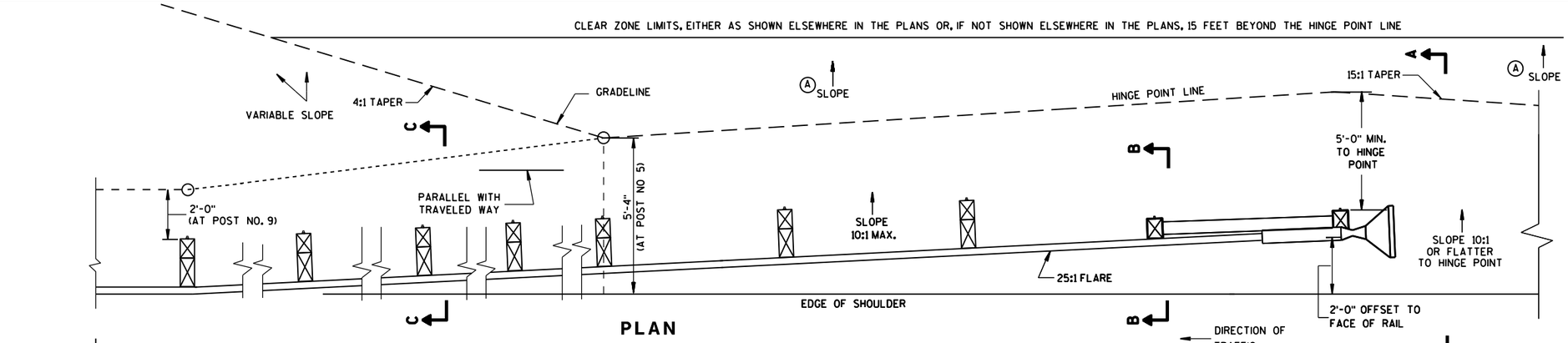
SEE SDD 14B42 FOR MORE INFORMATION.

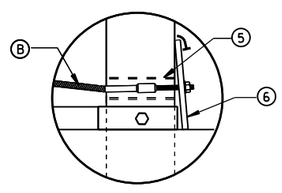
* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

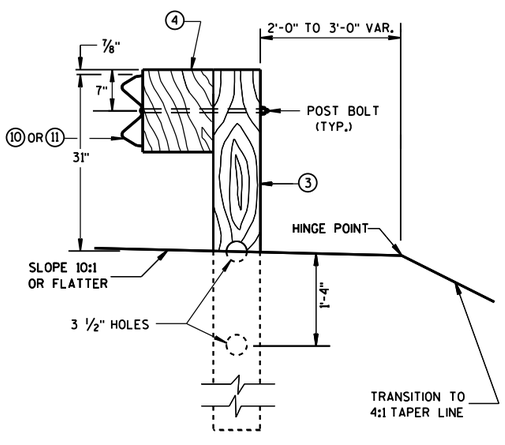
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

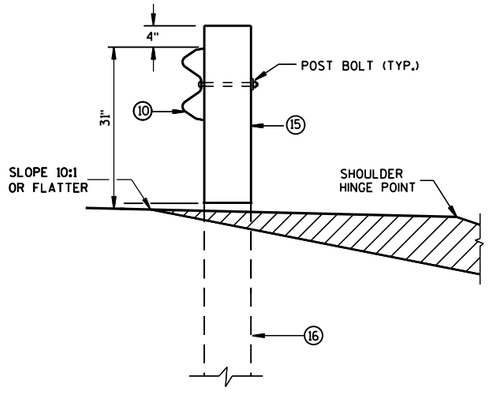
THE CENTER OF THE UPPER 3½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE.



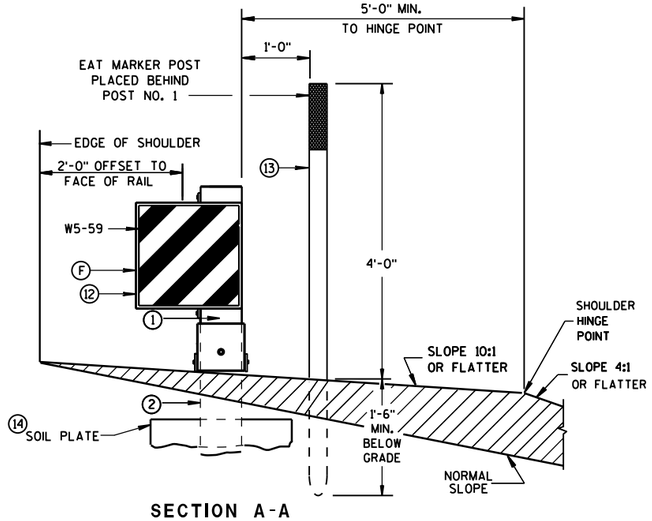




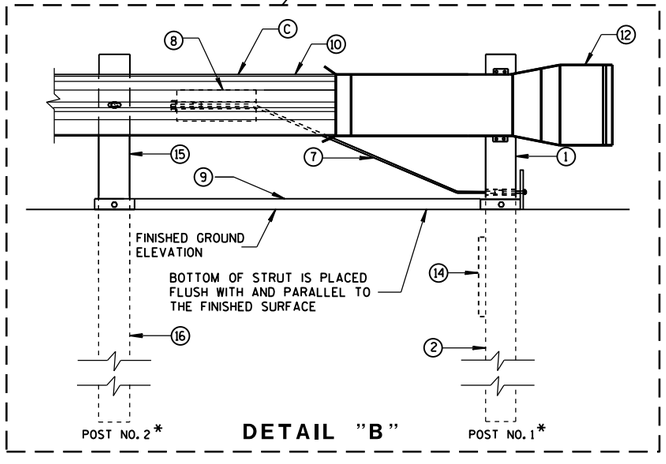
SECTION C-C
TYPICAL AT POST NOS. 3-9



SECTION B-B
TYPICAL AT POST NO. 2*



SECTION A-A
TYPICAL AT POST NO. 1*



DETAIL "B"

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

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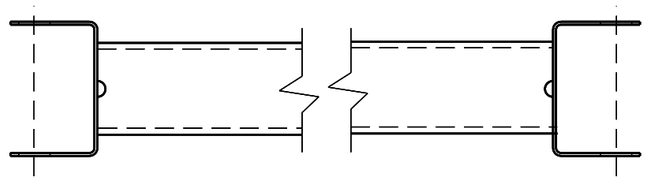
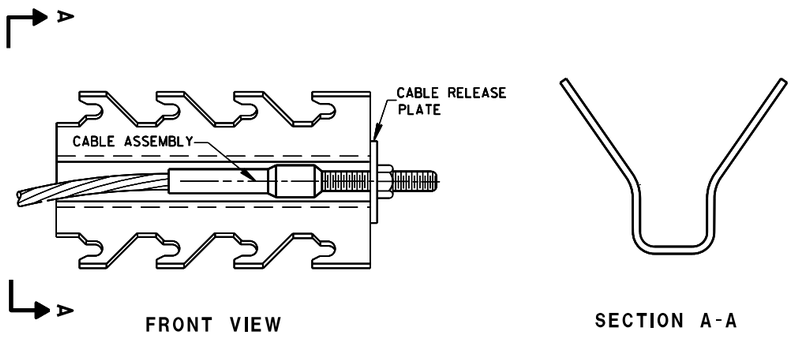
S.D.D. 14 B 44-3a



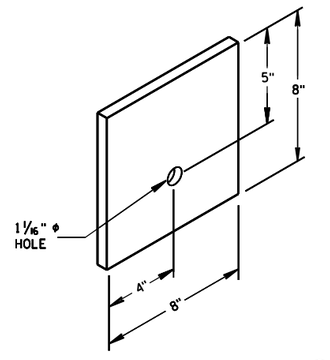
GENERIC GROUND STRUT (9) (H)



GENERIC ANCHOR CABLE BOX (8) (H)

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
(1)	UPPER POST NO. 1 6" X 6" TUBE
(2)	LOWER POST NO. 1
(3)	WOOD CRT
(4)	WOOD BLOCKOUT
(5)	PIPE SLEEVE
(6)	BEARING PLATE
(7)	BCT CABLE ASSEMBLY
(8)	ANCHOR CABLE BOX
(9)	GROUND STRUT
(10)	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
(11)	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
(12)	IMPACT HEAD
(13)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)
(14)	SOIL PLATE
(15)	UPPER POST NO. 2
(16)	LOWER POST NO. 2



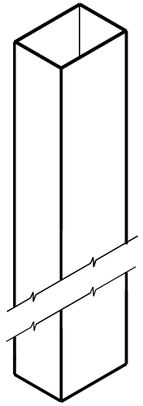
BEARING PLATE (6)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

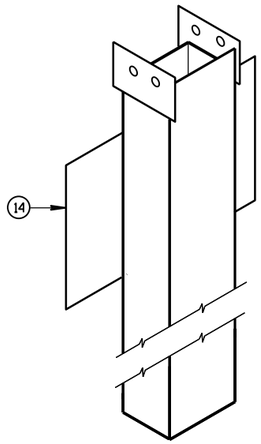
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

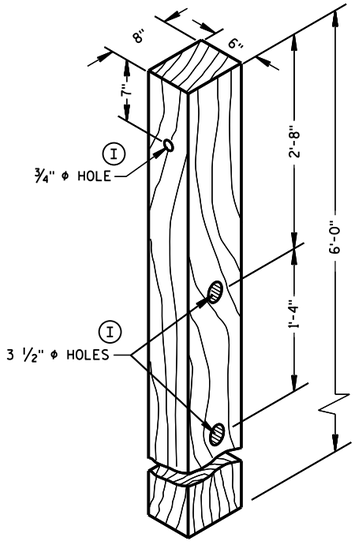
S.D.D. 14 B 44-3b



UPPER POST NO. 1 (1)

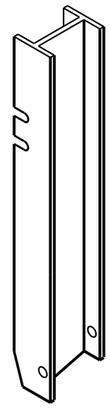


LOWER POST NO. 1 (2)

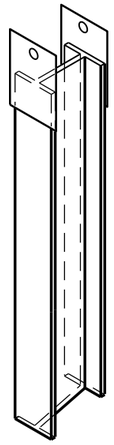


POSTS NUMBER 3-9

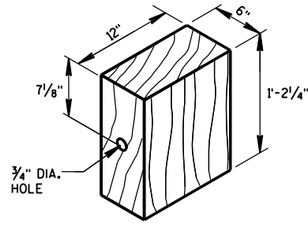
WOOD CRT POST (3)



UPPER POST NO. 2 (15)

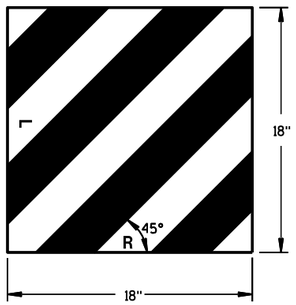


LOWER POST NO. 2 (16)



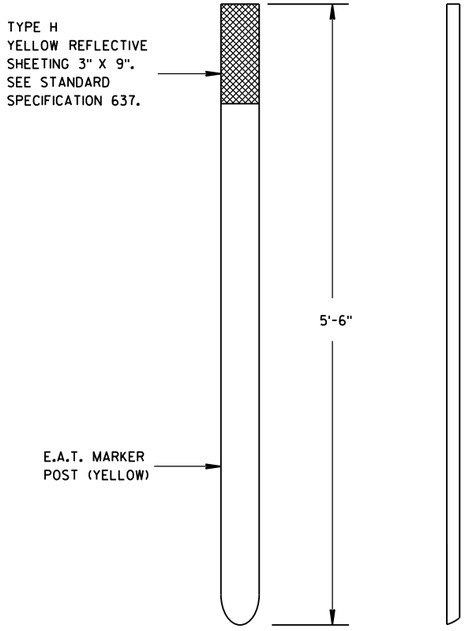
WOOD BLOCKOUT (4)

REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



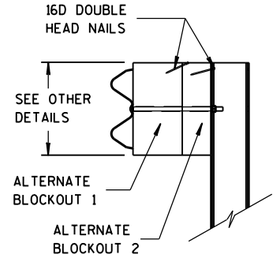
W5-59

REFLECTIVE SHEETING DETAIL (H)

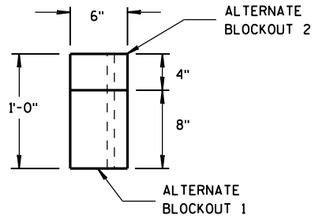


FRONT VIEW SIDE VIEW

E.A.T. MARKER POST (13)



SIDE VIEW



TOP VIEW

ALTERNATE WOOD
BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

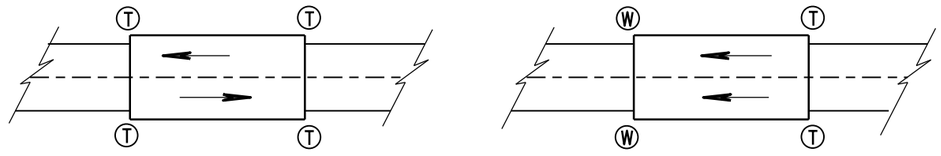
June 2017
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS
UNIT SUPERVISOR

FHWA

6

S.D.D. 14 B 44-3c



TWO WAY TRAFFIC

ONE WAY TRAFFIC

Ⓣ THRIE BEAM CONNECTION

Ⓦ W-BEAM CONNECTION WHEN REQUIRED

TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

GENERAL NOTES

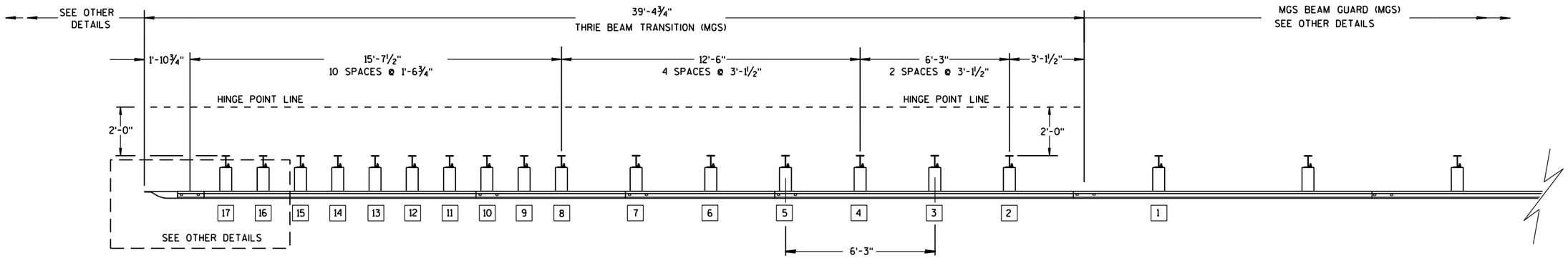
IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2½", AND 12" DIAMETER AROUND POST. SEE 14B42 FOR MORE DETAILS.

TRANSITION USES STEEL POSTS ONLY.

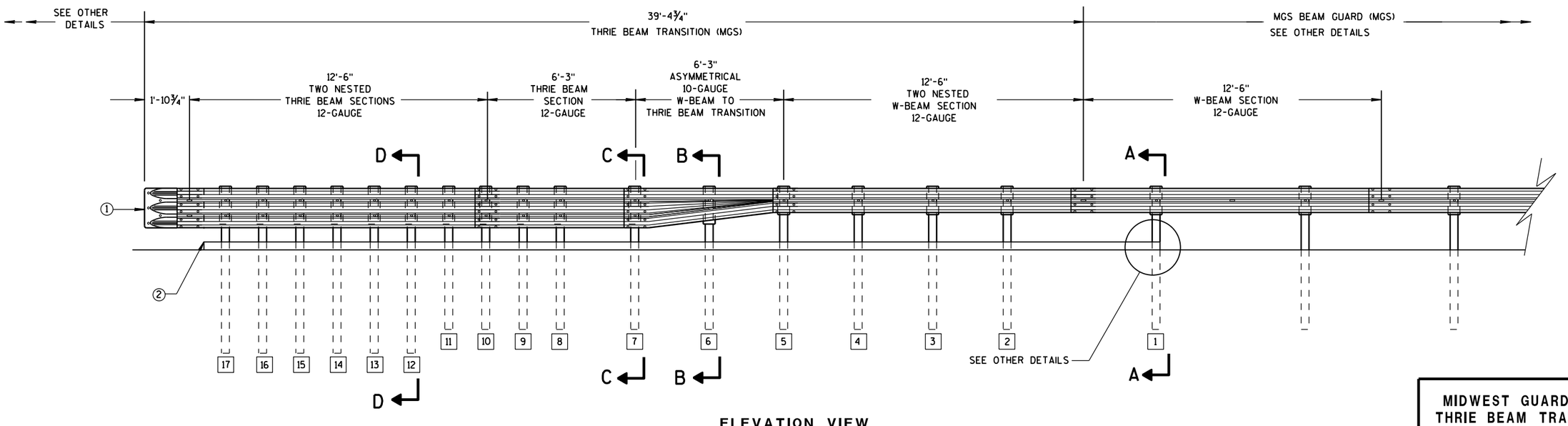
SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

① BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 45-4a

6

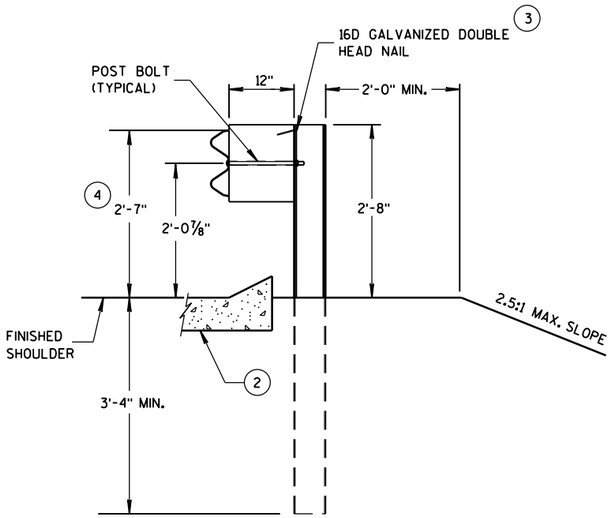
S.D.D. 14 B 45-4a

GENERAL NOTES

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE_FEATURE SEE PLAN FOR INFORMATION.

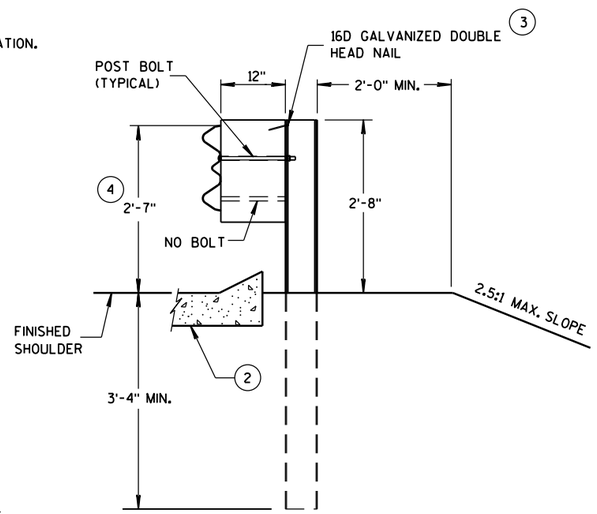
(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 10D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".



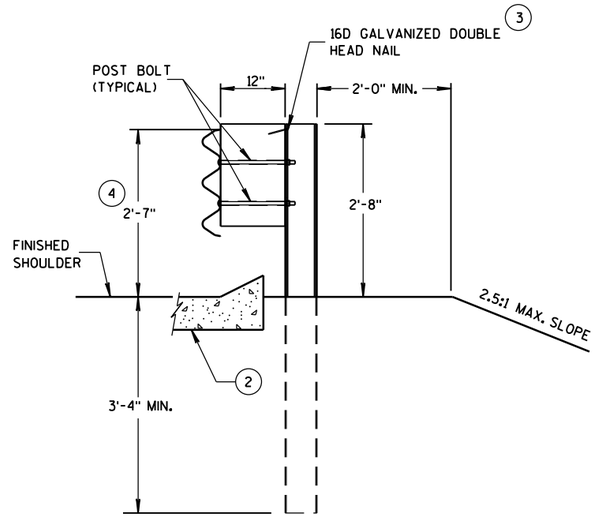
SECTION A-A

POSTS 1-5



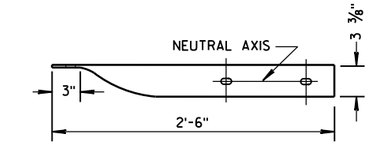
SECTION B-B

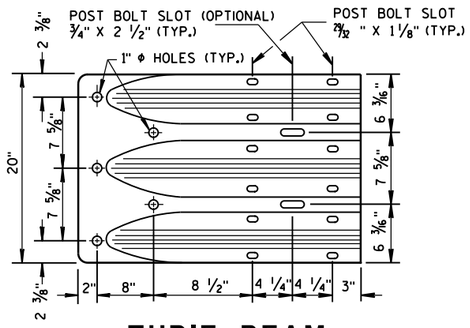
POST 6



SECTION C-C

POSTS 7-11





THRIE BEAM TERMINAL CONNECTOR

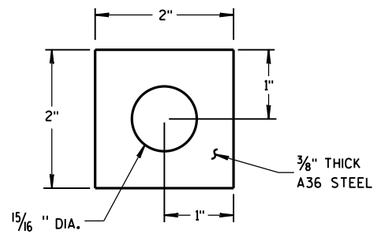
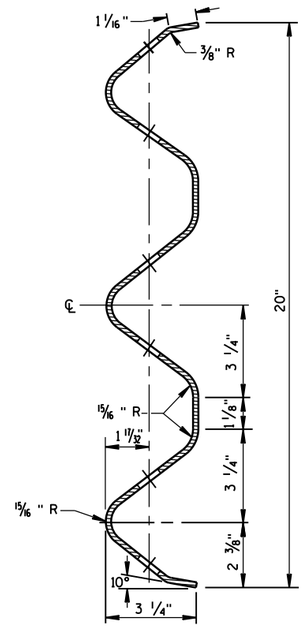
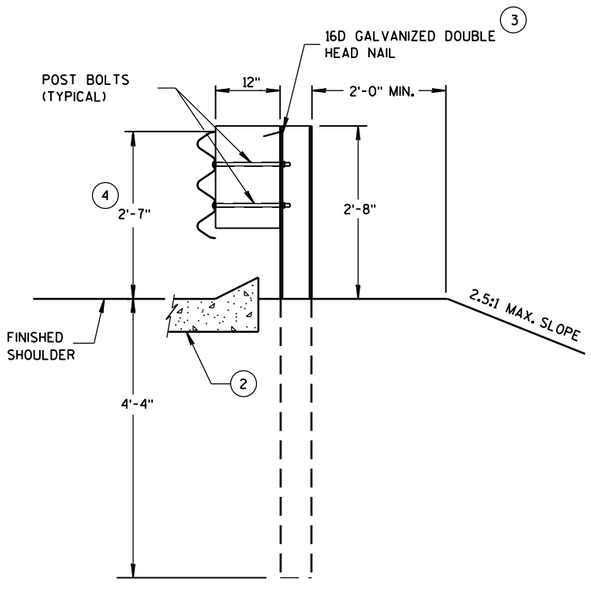


PLATE WASHER DETAIL

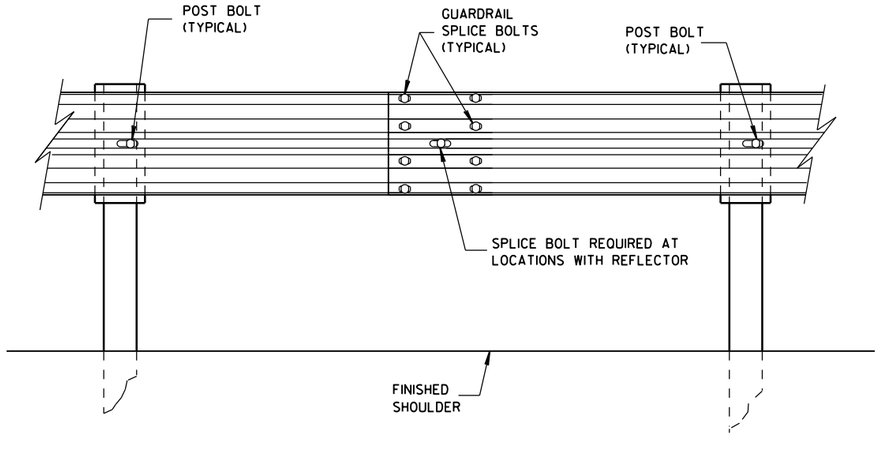


SECTION THRU THRIE BEAM RAIL ELEMENT



SECTION D-D

POSTS 12-17



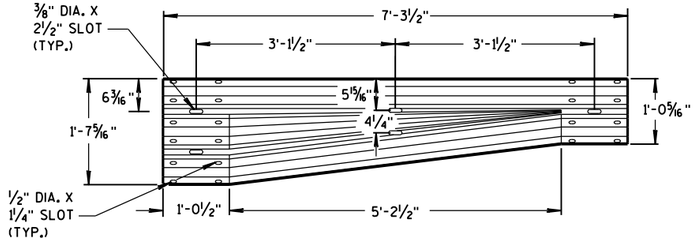
SPLICE DETAIL

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

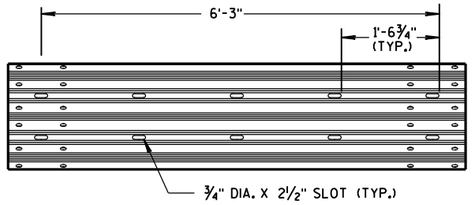
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6

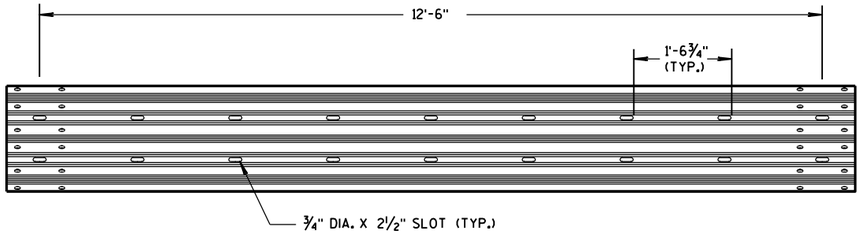
S.D.D. 14 B 45-4b



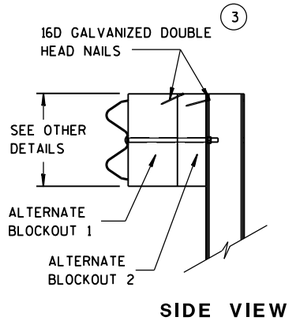
W-BEAM TO THRIE BEAM TRANSITION SECTION



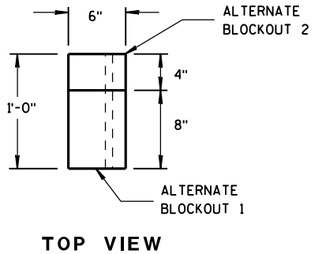
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

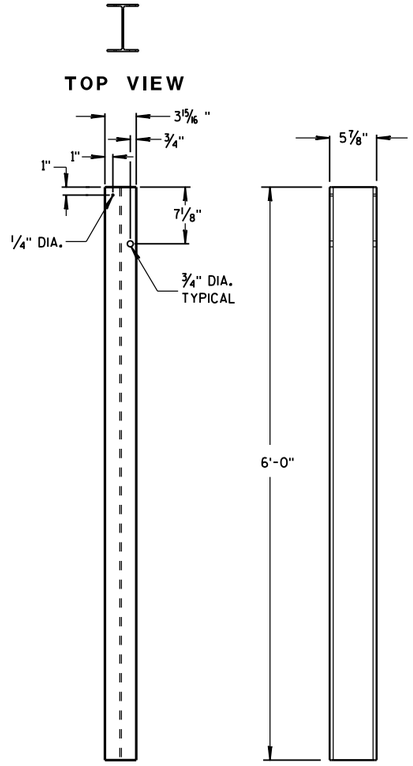


SIDE VIEW



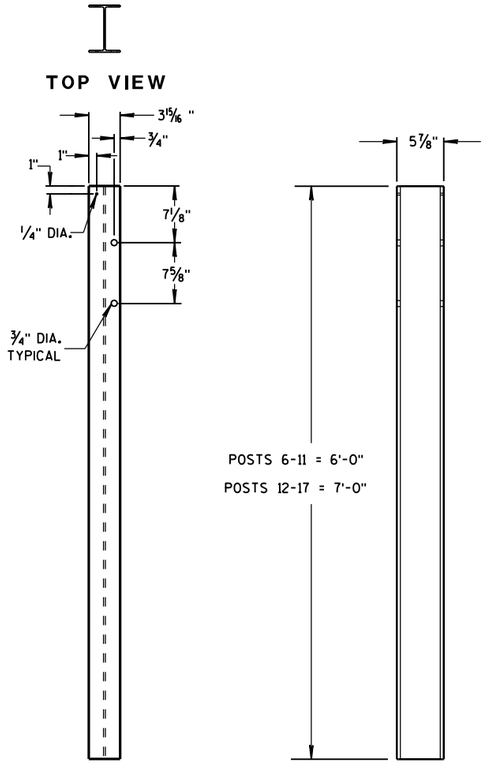
TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL



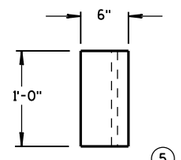
FRONT VIEW SIDE VIEW

STEEL POSTS 1-5

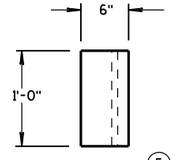


FRONT VIEW SIDE VIEW

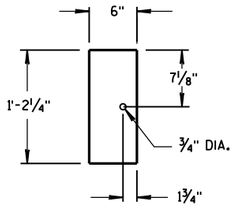
STEEL POSTS 6-17



TOP VIEW (5)

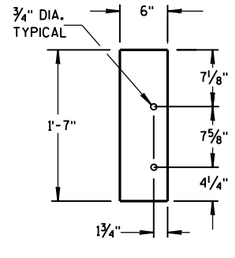


TOP VIEW (5)



FRONT VIEW

BLOCKOUT POSTS 1-5



FRONT VIEW

BLOCKOUT POSTS 6-17

GENERAL NOTES

STEEL POSTS ARE W6X9 OR W6X8.5.

BOLT HOLES FOR POST ARE ON FRONT AND OF SIDE OF POST.

(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

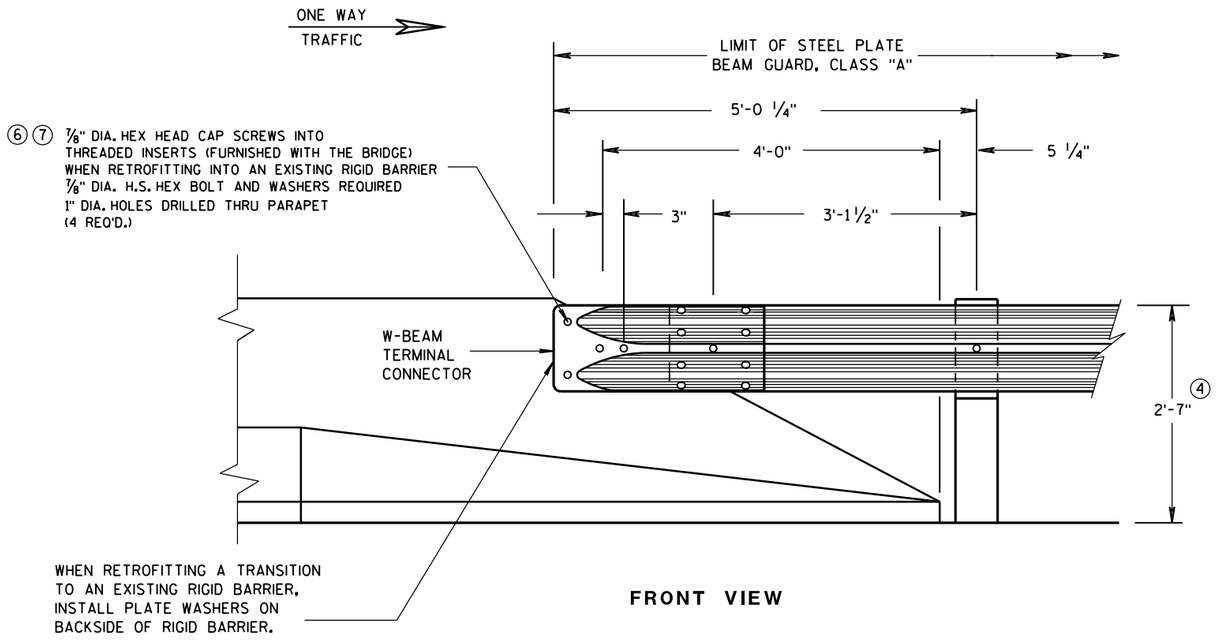
(5) WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 45-4c



FRONT VIEW

W BEAM CONNECTION TO PARAPETS WITH SLOPED ENDS

(USE ONLY AT TRAFFIC EXIT END OF ONE WAY BRIDGE)

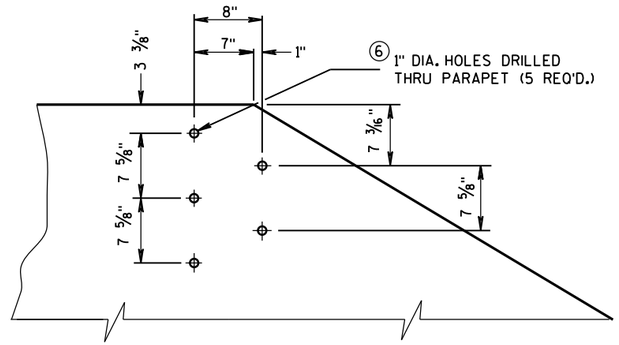
GENERAL NOTES

② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

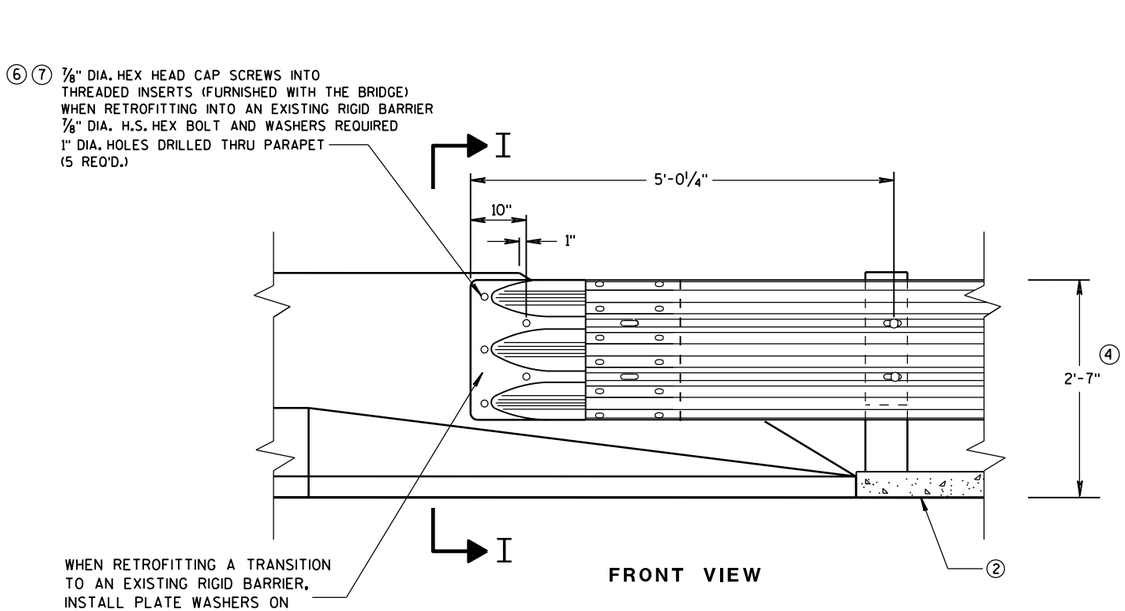
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

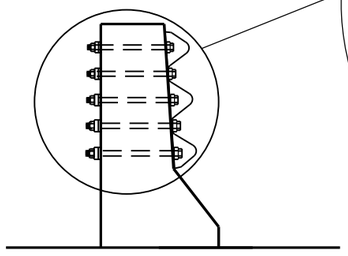
⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



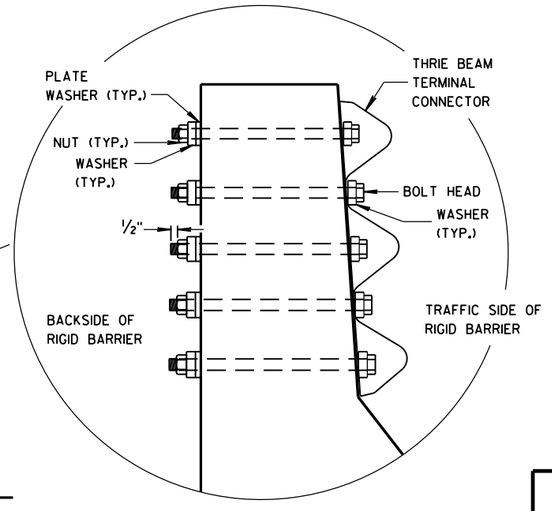
DRILL HOLE LOCATION AND PATTERN
FOR THRIE BEAM CONNECTION



FRONT VIEW



SECTION I-I



THRIE BEAM CONNECTION TO BRIDGE PARAPETS WITH SLOPED ENDS

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

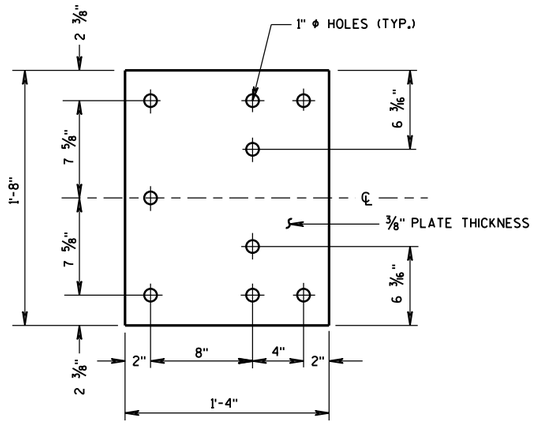
APPROVED
June, 2015 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

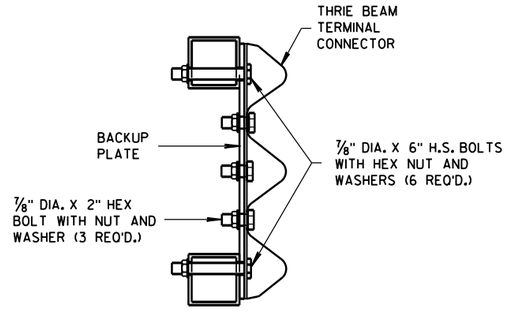
S.D.D. 14 B 45-4f

6

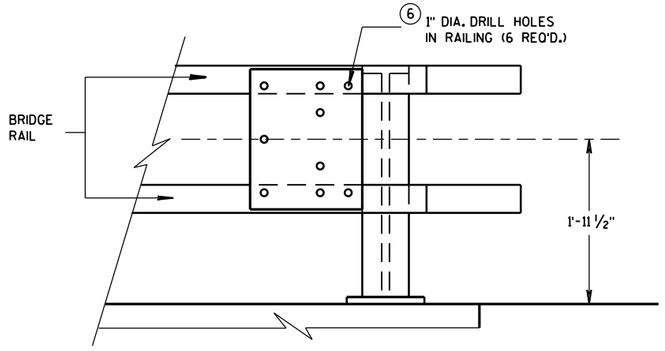
S.D.D. 14 B 45-4f



BACK-UP PLATE DETAIL



SECTION J-J

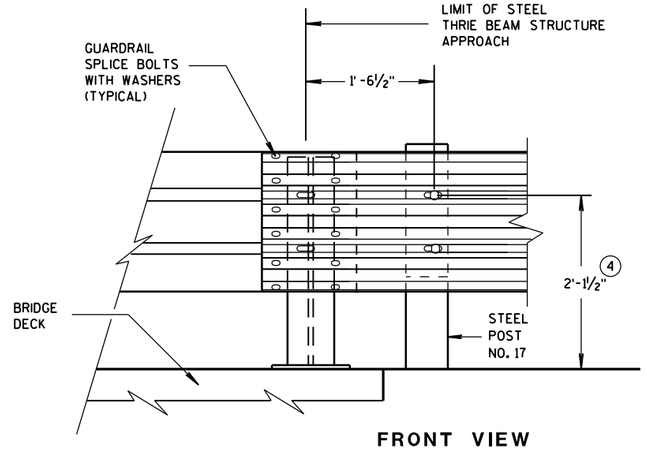


BACK-UP PLATE MOUNTING ONTO BRIDGE RAILING

GENERAL NOTES

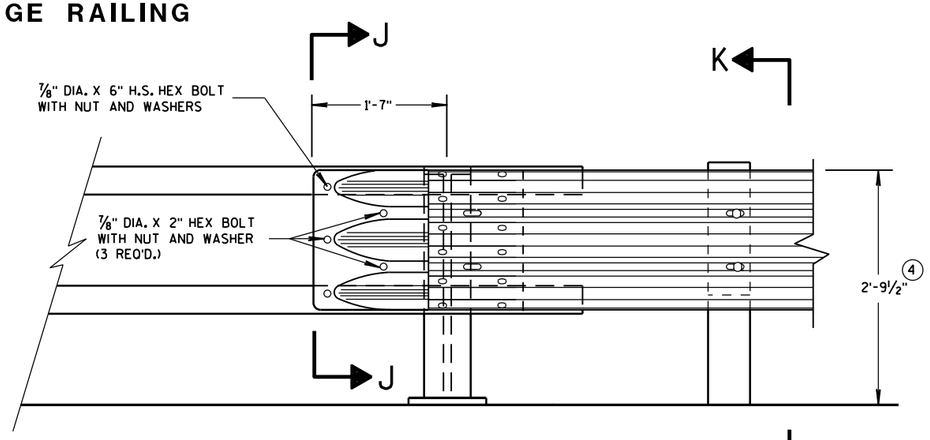
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING HOLES THROUGH THE PAPRPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

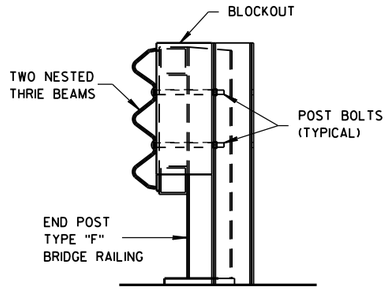


FRONT VIEW

THRIE BEAM CONNECTION TO STEEL RAILING TYPE "W"



FRONT VIEW



SECTION K-K

THRIE BEAM CONNECTION TO TUBULAR RAILING TYPE "F"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA — NT

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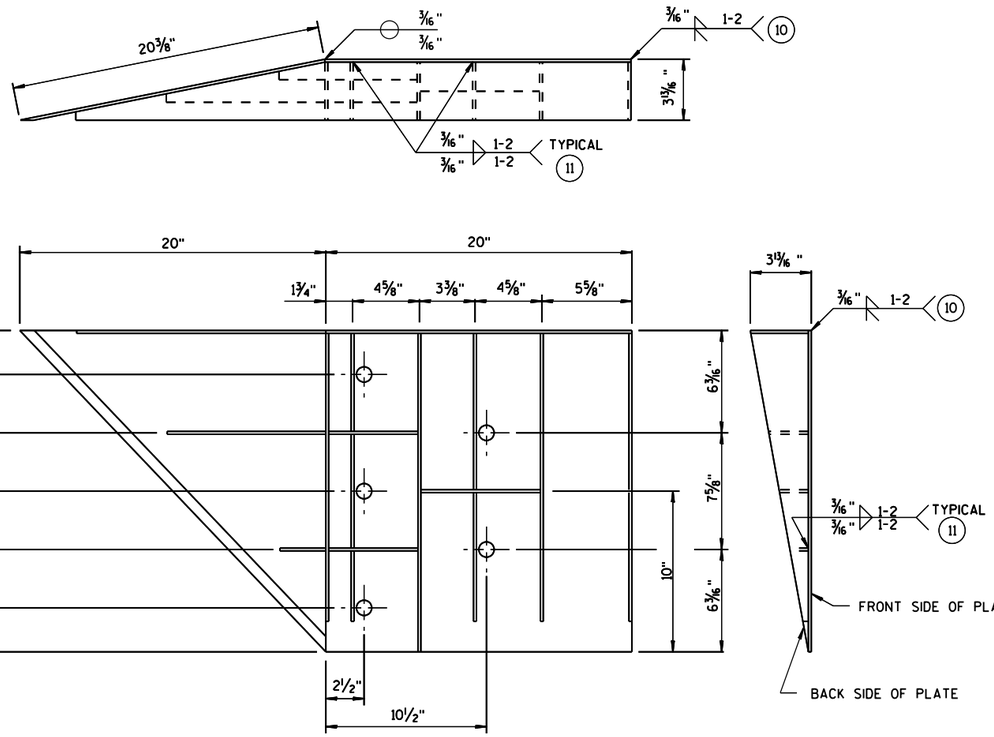

WELDING INSTRUCTION

(VIEWED FROM BACK SIDE OF PLATE)

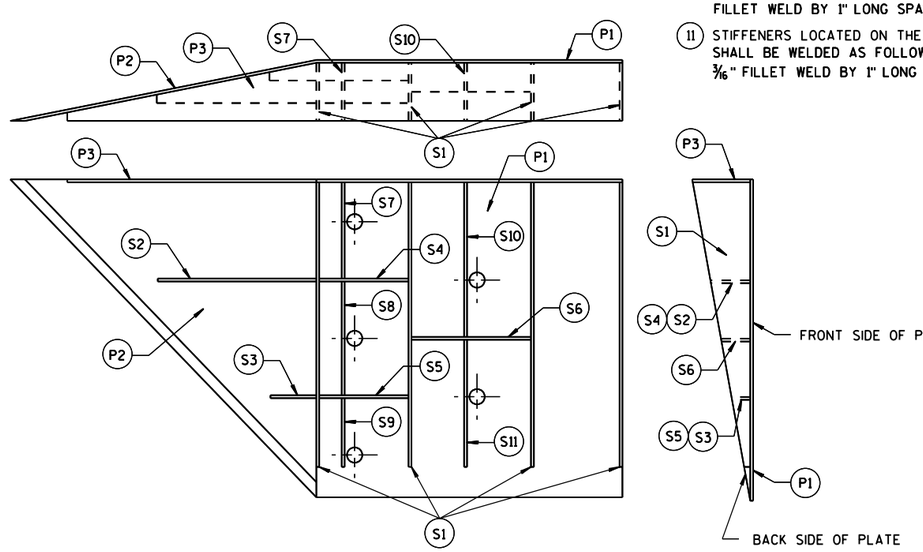

PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

GENERAL NOTES

COVER PLATE PANELS ARE 3/16" THICK.

ALL STIFFENERS ARE 1/4" THICK.

CONNECTOR PLATE SHALL BE FABRICATED FROM ASTM GRADE A36 STEEL AND GALVANIZED.

FOR GALVANIZED REQUIREMENTS, SEE SECTION 614 OF THE STANDARD SPECIFICATIONS.

ALL HOLE DIAMETERS SHALL BE 1".

FOR OPPOSITE SIDE INSTALLATION MIRROR DRAWINGS.

(10) STIFFENERS LOCATED AT THE OUTSIDE EDGES OF THE COVER PLATES SHALL BE WELDED AS FOLLOWS:
SINGLE BEVEL GROOVE WELD ON EXTERNAL SIDES AND 3/16" FILLET WELD BY 1" LONG SPACED AT 2" ON INTERNAL SIDES.

(11) STIFFENERS LOCATED ON THE INSIDE OF THE COVER PLATE SHALL BE WELDED AS FOLLOWS:
3/16" FILLET WELD BY 1" LONG SPACED AT 2".

CONNECTOR PLATE DIMENSION (PER ASSEMBLY)

PLATE	QUANTITY	SHAPE	SIZE (A x B x C x D)	THICKNESS
P1	1		20" x 20"	3/16"
P2	1		20" x 20" x 28 9/16"	3/16"
P3	1		39" x 3 5/8" x 20" x 19 5/16"	3/16"
S1	4		18 7/16" x 3 3/8" x 18 3/4"	1/4"
S2	1		10 1/4" x 2 7/16" x 10 3/8" x 1/2"	1/4"
S3	1		3" x 1 1/16" x 3 1/8" x 1/2"	1/4"
S4	1		6 1/8" x 2 7/16"	1/4"
S5	1		6 1/8" x 1 1/16"	1/4"
S6	1		7 3/4" x 1 3/4"	1/4"
S7	1		2 9/16" x 6" x 3 5/8" x 5 7/8"	1/4"
S8	1		1 5/32" x 7 1/2" x 2 1/2" x 7 3/8"	1/4"
S9	1		6 1/16" x 6 3/16" x 1 1/32"	1/4"
S10	1		1 7/8" x 9 7/8" x 3 5/8" x 9 11/16"	1/4"
S11	1		8 1/2" x 8 3/4" x 1 13/16"	1/4"

SINGLE SLOPE CONNECTION PLATE

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
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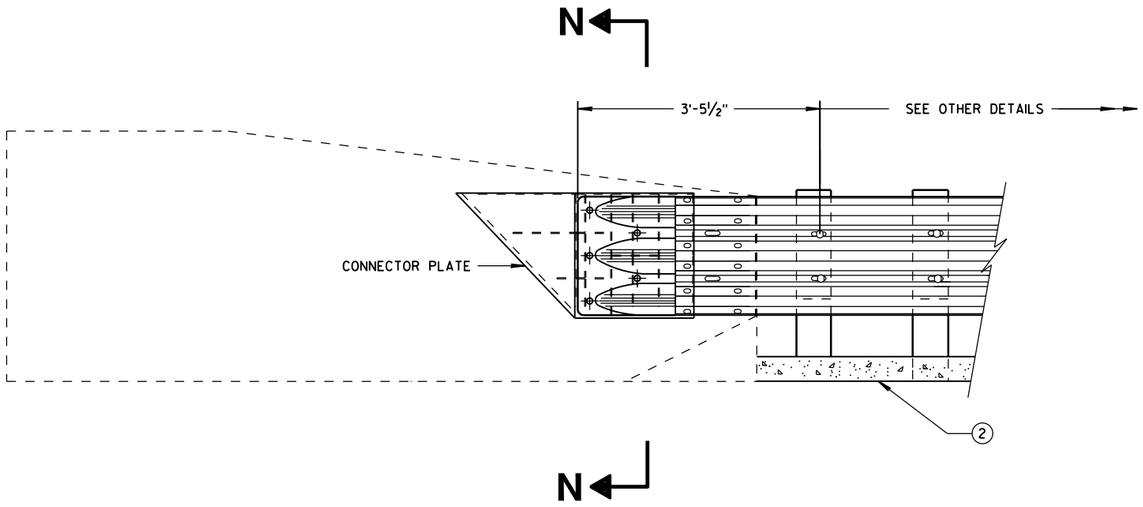
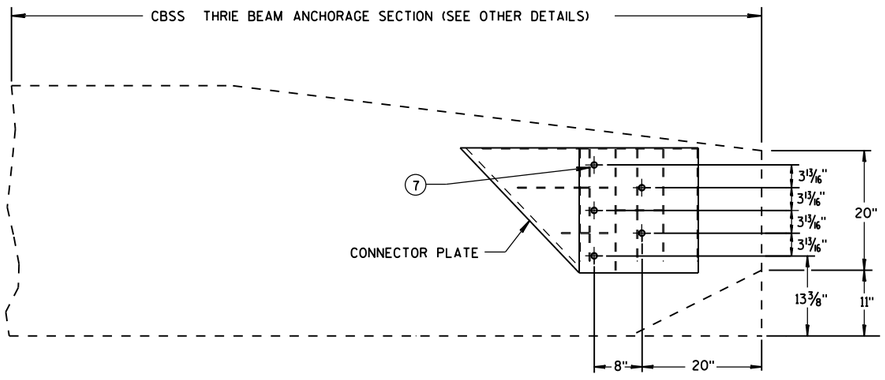


THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER



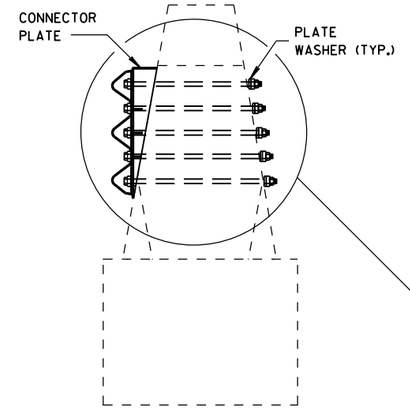
SINGLE SLOPE CONNECTION PLATE PLACEMENT

GENERAL NOTES

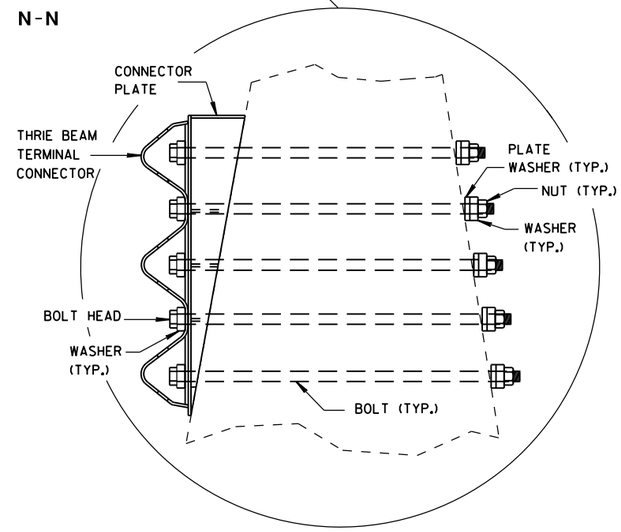
CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



SECTION N-N



MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Jerry H. Zoga — ROADWAY STANDARDS DEVELOPMENT ENGINEER
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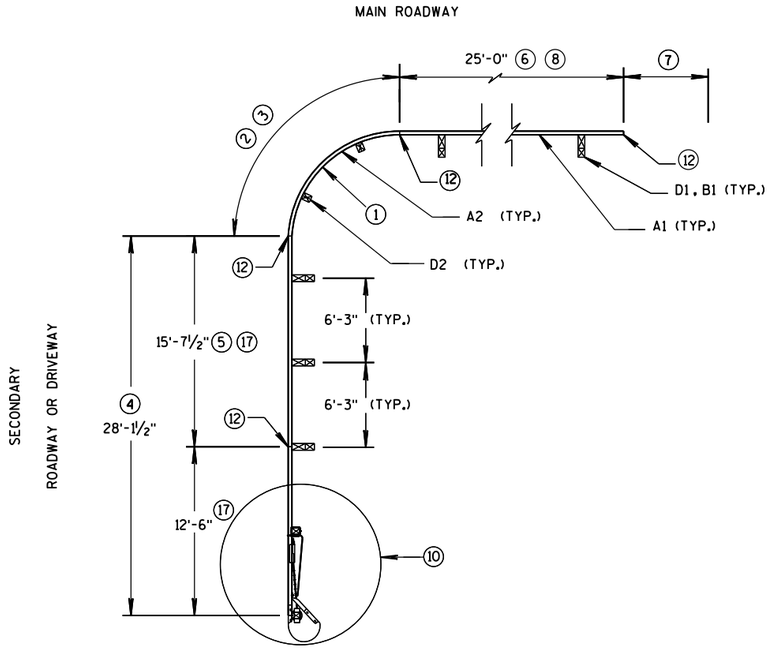
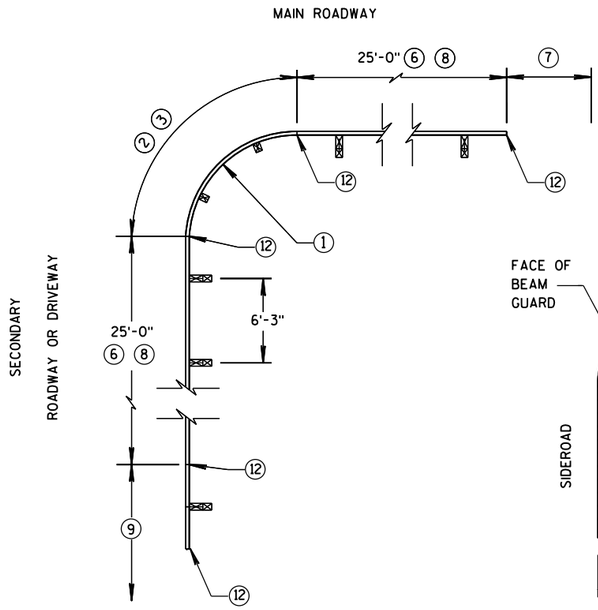
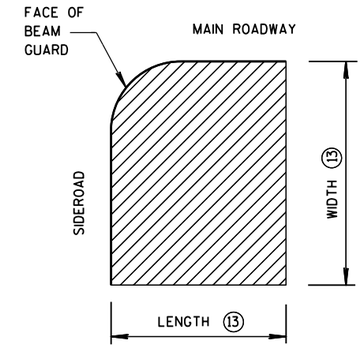


SHORT RADIUS BEAM GUARD WITH SHORT RADIUS TERMINAL ON SECONDARY ROAD OR DRIVEWAY PLAN VIEW



SHORT RADIUS BEAM GUARD WITH EAT, ADDITIONAL BEAM GUARD OR TRANSITION TO RIGID BARRIER ON SECONDARY ROAD OR DRIVEWAY PLAN VIEW



AREA FREE OF FIXED OBJECTS FOR RADIUS 32' AND LESS (16)

TABLE FOR RADIUS OF 32' AND LESS

RADIUS FT	LENGTH FT	WIDTH FT
8	25	15
16	30	15
24	40	20
32	50	30

GENERAL NOTES

SEE PLANS FOR OTHER BARRIER SYSTEM AND LOCATION SPECIFICS.

SEE 14B42 FOR MORE INFORMATION ON BEAM GUARD INSTALLATION, PARTS, MATERIALS, AND INSTALLATION INFORMATION.

GALVANIZE PARTS AFTER FABRICATION.

WELDING IS TO FOLLOW CURRENT REQUIREMENTS OF THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE ANSI/AWS D1.1

UNLESS NOTED OTHERWISE, ALL PLATES ARE FLAT AND FREE OF WARP.

UNLESS NOTED OTHERWISE, ALL EDGES ARE SMOOTH, STRAIGHT AND VERITCAL.

ALL CUTS AND HOLES, EXCEPT IN BEAM GUARD RAIL ARE TO BE MACHINED OR MACHINE FLAME CUTS.

UNLESS NOTED OTHERWISE CUT OR PROVIDE BOLTS THAT ARE ¼" TO ½" BEYOND THE NUT

DRAWINGS ARE NOT TO SCALE.

(1) RADIUS MEASURE FROM INSIDE OF RAIL. LENGTH OF BEAM GUARD SHORT RADIUS GUARD MEASURED ALONG TRAFFIC SIDE OF RAIL. RADIUS BETWEEN 8 FEET TO 150 FEET. SEE PLAN FOR REQUIRED RADIUS. BEAM GUARD RAIL IN RADIUS IS SHOP BENT. ODD RAIL LENGTH OR FIELD CUTS MAY BE REQUIRED.

(2) CONTROLLED RELEASE TERMINAL (CRT) POSTS ARE USED IN THE RADIUS. CONTROLLED RELEASE TERMINAL (CRT) POSTS ARE SPACED 6'-3". SEE PLAN FOR NUMBER OF CONTROLLED RELEASE TERMINAL (CRT) POSTS.

(3) WITHIN RADIUS BEAM GUARD RAILS ARE NOT BOLTED TO POSTS. BEAM GUARD RAILS RESTED ON TOP OF LAG SCREW.

(4) MINIMUM LENGTH OF BEAM GUARD ALONG SIDE ROAD OR DRIVEWAY TO INSTALL SHORT RADIUS TERMINAL. BEAM GUARD IS PAID FOR WITH BEAM GUARD ITEM.

(5) ODD LENGTH OF BEAM GUARD REQUIRED TO INSTALL SHORT RADIUS TERMINAL.

(6) MINIMUM AMOUNT OF BEAM GUARD TO BE INSTALLED PRIOR TRANSITION TO RIGID BARRIER, ADDITIONAL BEAM GUARD, OR EAT. BEAM GUARD PAID FOR WITH BEAM GUARD ITEM. SEE PLANS FOR MORE DETAIL.

(7) BEAM GUARD, EAT OR TRANSITION TO RIGID BARRIER. SEE PLAN.

(8) TOP OF BEAM GUARD BY THE RADIUS IS 27". HEIGHT OF BEAM GUARD IS 31" BY TRANSITION TO RIGID BARRIER, ADDITIONAL BEAM GUARD OR EAT.

(9) ADDITIONAL BEAM GUARD, EAT OR TRANSITION TO RIGID BARRIER. BEAM GUARD SHOWN. SEE PLAN FOR DETAILS.

(10) SHORT RADIUS TERMINAL (SEE OTHER DETAILS)

(11) HEIGHT VARIES. SEE NOTE (8) AND (17).

(12) BEAM GUARD RAIL SPLICE LOCATION. SPLICE LOCATION REQUIRE PART F1 AND F2. SEE SDD 14B42 FOR DETAILS.

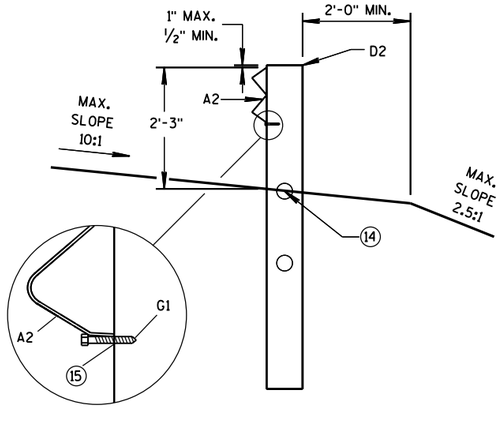
(13) SEE TABLE FOR VALUES.

(14) MAXIMUM HEIGHT FOR CENTER OF HOLE IS ¾" ABOVE FINISHED GROUND ±1".

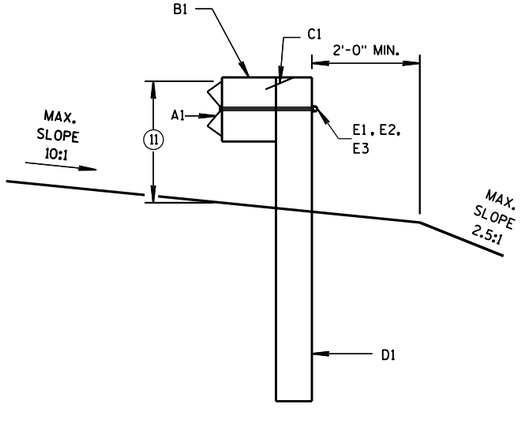
(15) DRILL 15/64" DIA. PILOT HOLE. DO NOT HAMMER LAG SCREW INTO POST.

(16) SMALL SIGNS ON BREAKAWAY HARDWARE ARE ACCEPTABLE.

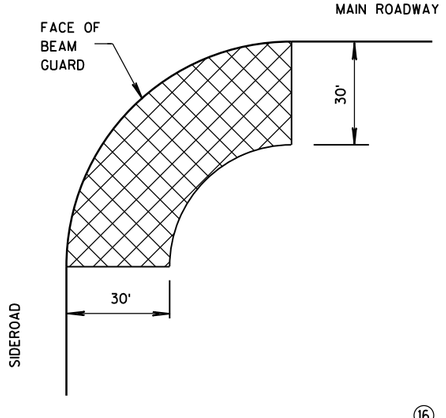
(17) TOP OF RAIL HEIGHT IS 27" WHEN USING A SHORT RADIUS TERMINAL.



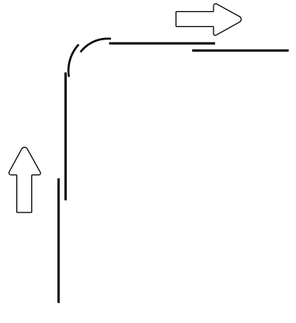
CONTROLLED RELEASE TERMINAL POST (CRT) IN RADIUS



BEAM GUARD POSTS IN HEIGHT TRANSITION



AREA FREE OF FIXED OBJECTS (16) RADIUS GREATER THAN 32'



LAP SPLICE DETAIL

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

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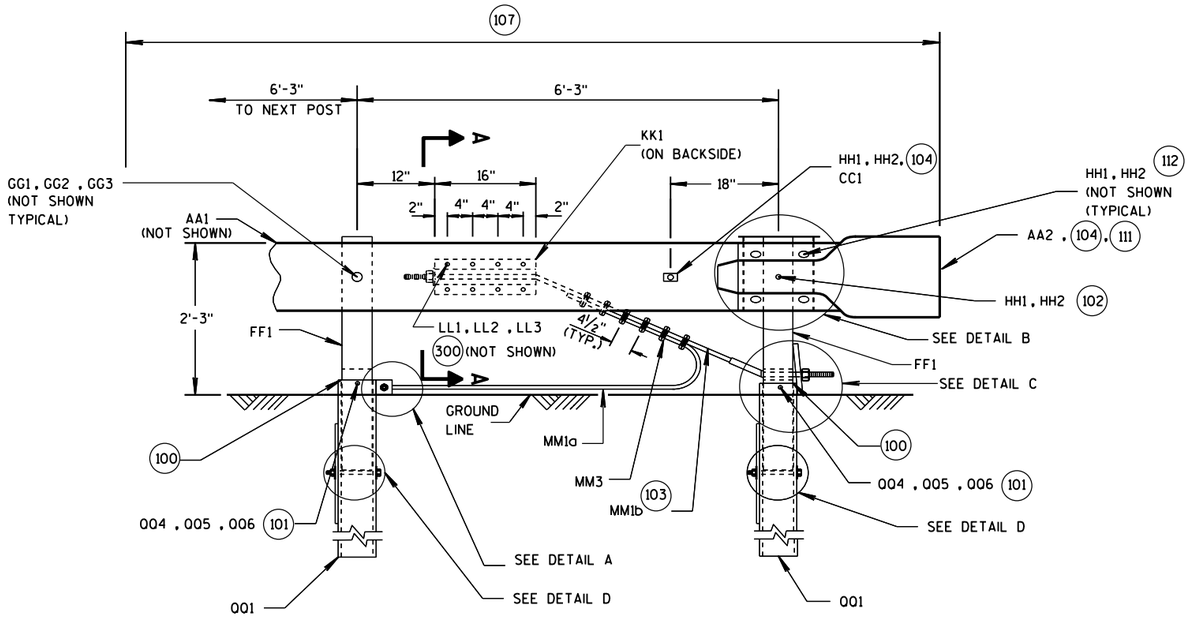
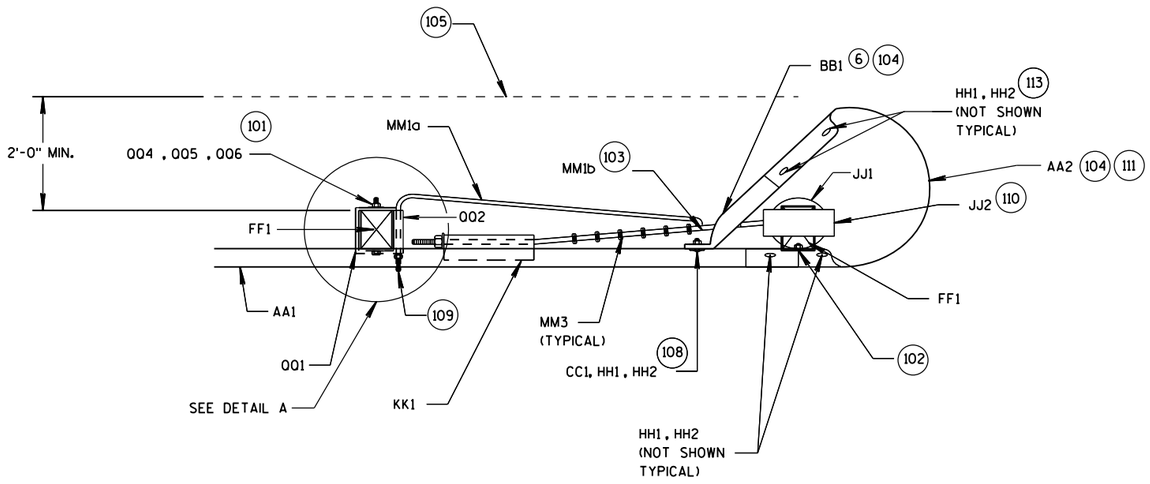


SHORT RADIUS TERMINAL
PROFILE VIEW



SHORT RADIUS TERMINAL
TOP VIEW

(100) TOP OF FOUNDATION TUBE 2 INCHES MAXIMUM ABOVE FINISHED GROUND.

(101) WASHERS REQUIRED BETWEEN BOLT HEAD AND FOUNDATION TUBE AND BETWEEN NUT AND FOUNDATION TUBE.

(102) SPLICE BOLT AND NUT CONNECTS BEAM GUARD RAIL, W-BEAM END SECTION BUFFER, AND STEEL PIPE ASSEMBLY. NO WASHER REQUIRED. SEE DETAIL B.

(103) CABLE IS TAUT.

(104) ADJUST AA2 AND BB1 TO FIT.

(105) BREAK POINT OF SHOULDER.

(106) TACK WELD CABLE CONNECTOR TUBE PLATE TO CABLE CONNECTION TUBE. SEE DETAIL A PROFILE VIEW.

(107) PAY LIMIT FOR BEAM GUARD.

(108) SQUARE WASHER BETWEEN HEAD OF BOLT AND TRAFFIC FACE OF BEAM GUARD. ROUND WASHER REQUIRED BETWEEN NUT AND BB1.

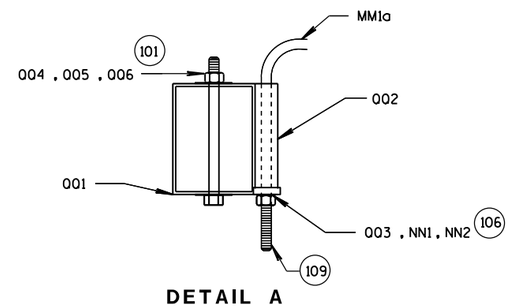
(109) CUT OR PROVIDE THREADED STUD THAT IS FLUSH WITH FACE OF BEAM GUARD RAIL KK1 (PLUS OR MINUS ½" TOLERANCE). DEBURR AFTER CUTTING.

(110) SEE STEEL PIPE ASSEMBLY DETAILS.

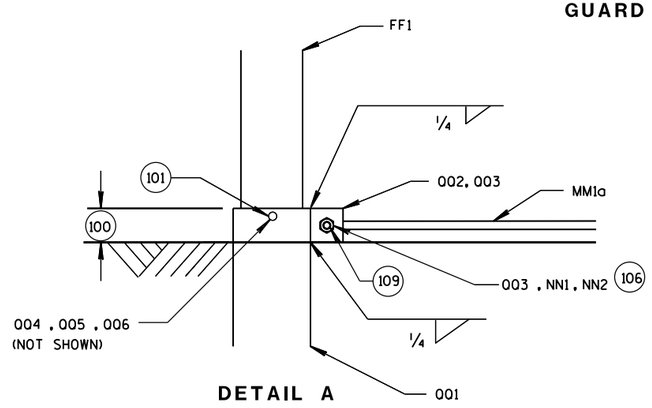
(111) ATTACH UU2 WITH UU3. SHOP APPLY UU1 TO UU2.

(112) FOUR HH1 AND HH2 REQUIRED TO ATTACH AA1 TO AA2.

(113) FOUR HH1 AND HH2 REQUIRED TO ATTACH AA2 TO BB1.



DETAIL A
TOP VIEW
(WOOD BREAKAWAY AND BEAM GUARD RAIL POSTS NOT SHOWN)



DETAIL A
PROFILE VIEW

STEEL PLATE BEAM GUARD
SHORT RADIUS TERMINAL
MGS

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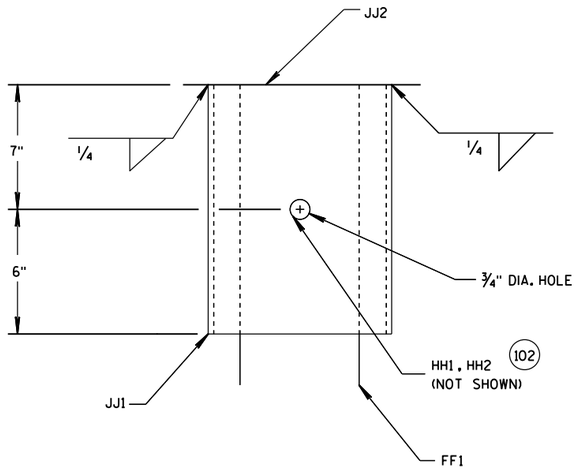
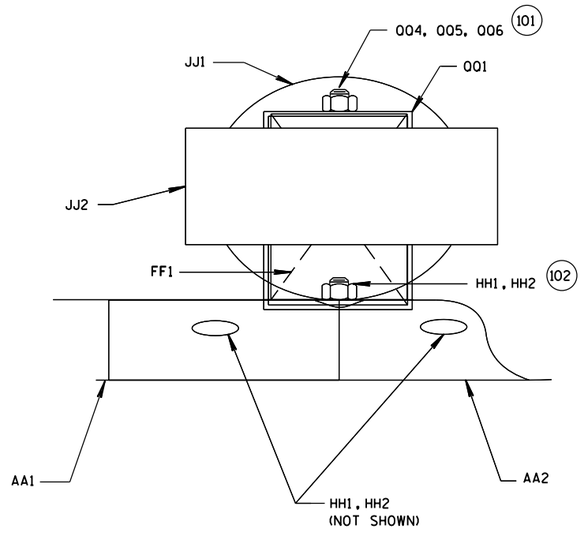
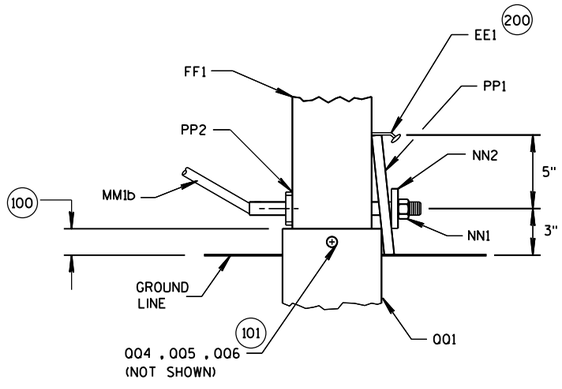


DETAIL B
PROFILE VIEW OF STEEL PIPE ASSEMBLY
(BEAM GUARD AND W-BEAM
END SECTION NOT SHOWN)

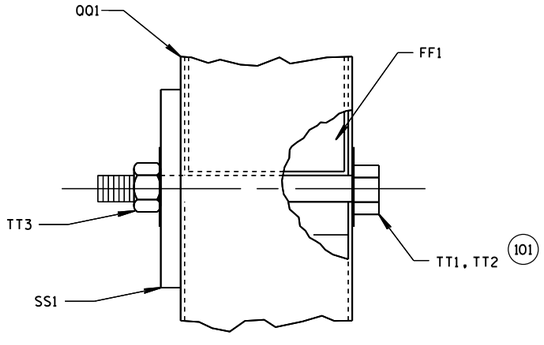


DETAIL B
PLAN VIEW OF STEEL PIPE ASSEMBLY

200 2 NAILS SPACED 4 INCHES CENTER TO CENTER.



DETAIL C
PROFILE VIEW



DETAIL D
PROFILE VIEW

SHORT RADIUS BEAM GUARD
(MGS) SHORT RADIUS
TERMINAL (MGS)

STATE OF WISCONSIN
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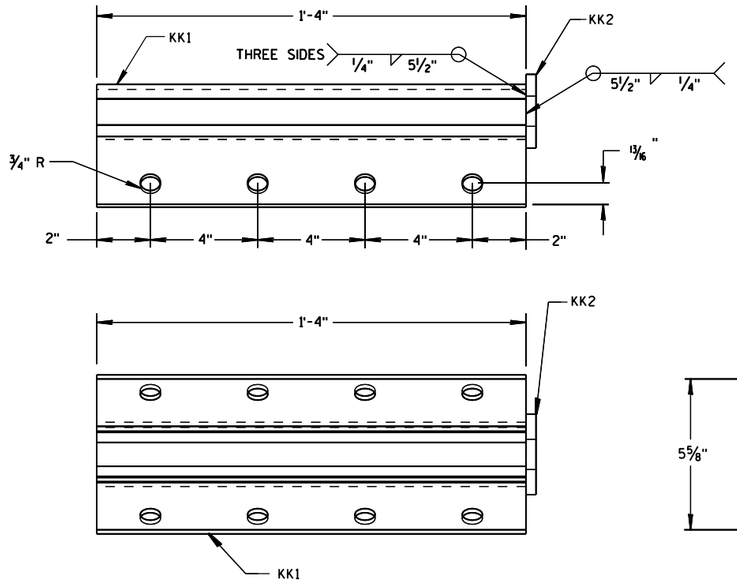
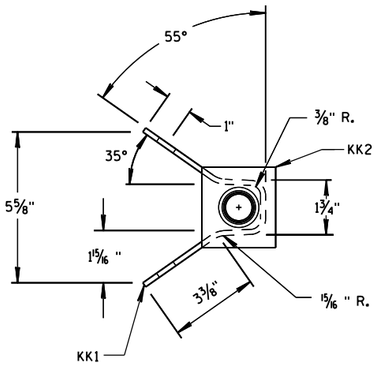
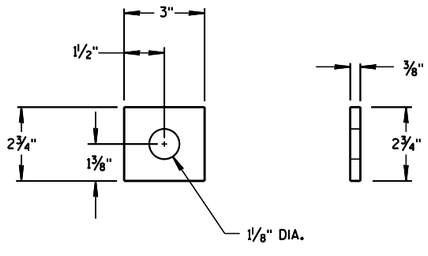
(300) WASHERS REQUIRED BETWEEN BOLT HEAD AND BEAM GUARD RAIL AND BETWEEN NUT AND ANCHOR BRACKET. EIGHT LL1 AND LL3 REQUIRED. SIXTEEN LL2 REQUIRED.

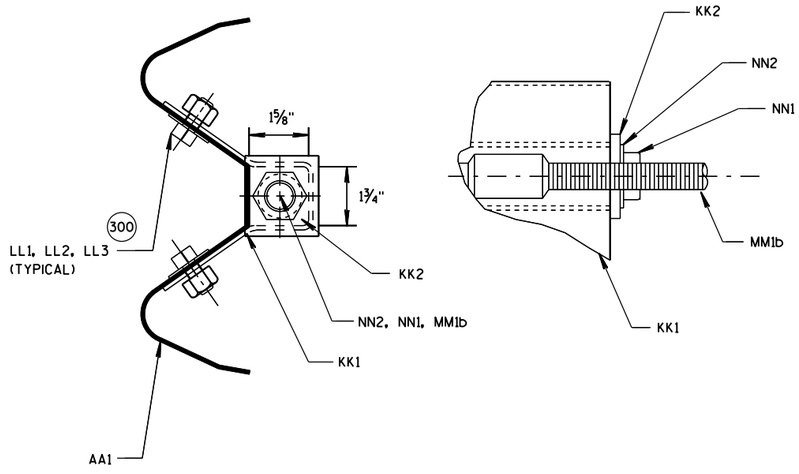




ANCHOR BRACKET (KK1, KK2)



ANCHOR BRACKET BEARING PLATE (KK2)



SECTION A-A

SHORT RADIUS BEAM GUARD
(MGS) SHORT RADIUS
TERMINAL (MGS)

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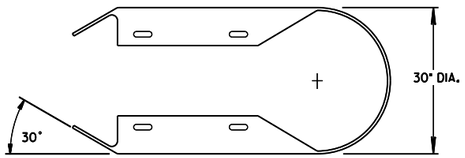
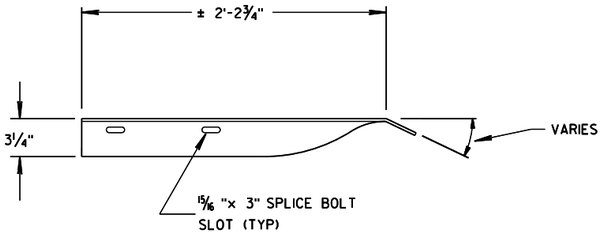


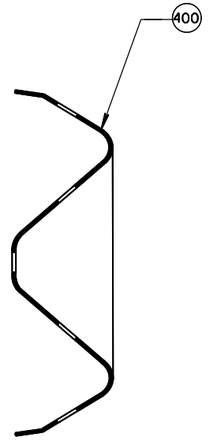
TOP VIEW



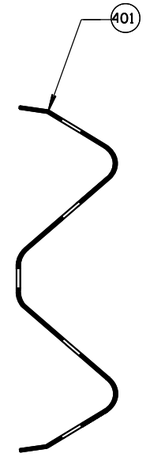
TOP VIEW

(400) CROSS SECTON OF PART IS TO FIT OVER AA1.

(401) CROSS SECTON OF PART IS TO FIT OVER OR UNDER AA1.

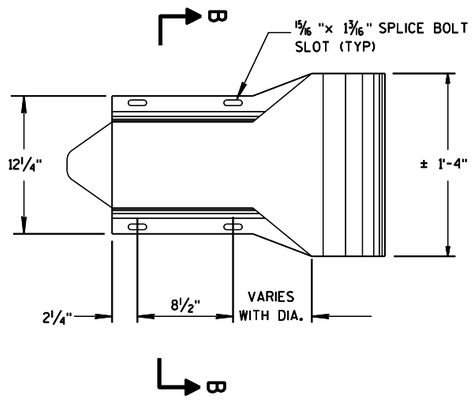


SECTION B-B



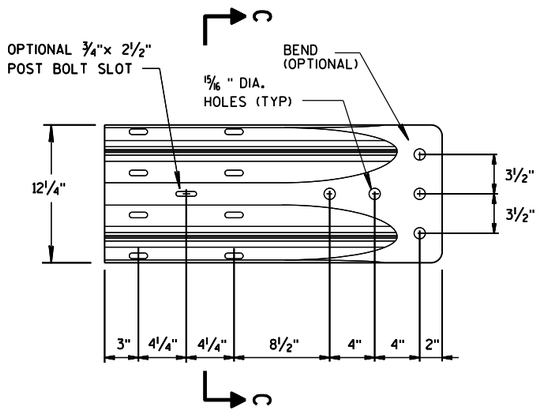
SECTION C-C

6



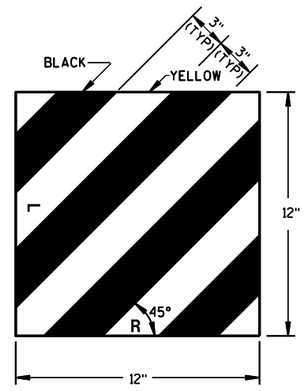
W-BEAM
END SECTION BUFFER (AA2)

PROFILE VIEW



W-BEAM
TERMINAL CONNECTOR (BB1)

PROFILE VIEW



REFLECTIVE SHEETING
(UU1, UU2)

6

S.D.D. 14 B 53-1e

SHORT RADIUS BEAM GUARD
(MGS) SHORT RADIUS
TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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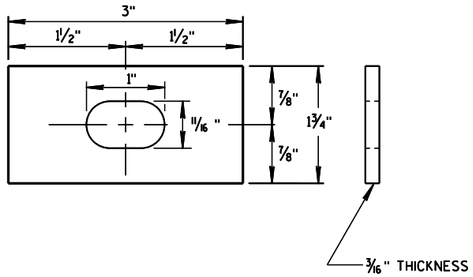
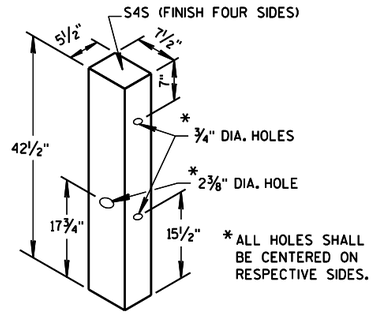
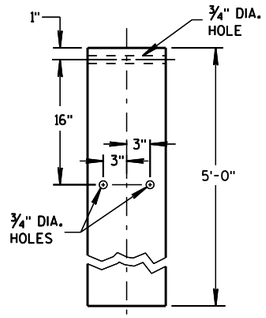
S.D.D. 14 B 53-1e



RECTANGULAR PLATE WASHER (CC1)



WOOD BREAKAWAY POST (FF1)



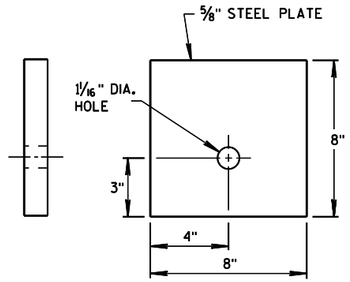
FOUNDATION TUBE (QQ1) (500)

(500) SEE DETAIL "D" FOR LOCATION AND ATTACHING SS1.

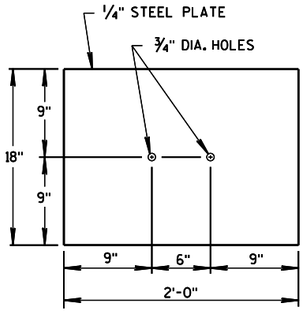
(501) FOR MM1a THREADED STUD ONLY REQUIRED ON ONE END. SWAGED FITTING REQUIRED.

(502) LOCATE HOLES ON THE CENTERLINE OF THE SIDE OF THE POST.

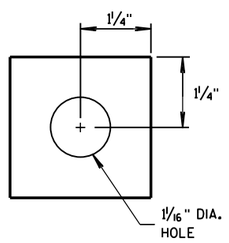
(503) MM1a MAY HAVE ONE THREADED STUD 4 INCHES LONG. SEE NOTE (109).



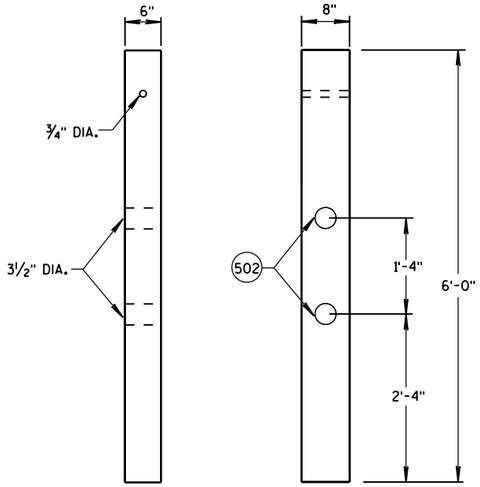
BEARING PLATE (PP1)



SOIL PLATE (SS1)

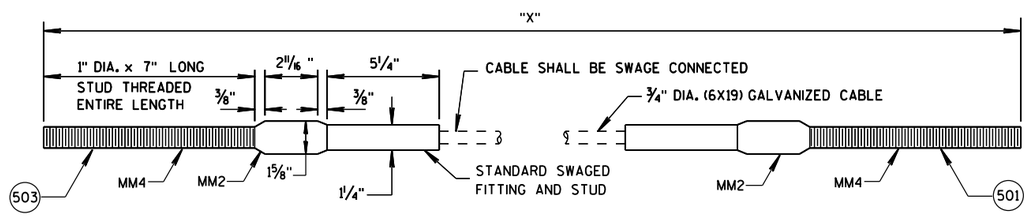


TUBE END PLATE (QQ3)



FRONT VIEW SIDE VIEW

CONTROLLED RELEASE TERMINAL POST (CRT) (D2)



"X" LENGTH	
MM1a	9'-0"
MM1b	6'-8"

CABLE ASSEMBLY (MM1a , MM1b)

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

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S.D.D. 14 B 53-1f

BILL OF MATERIALS - SHORT RADIUS BEAM GUARD (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
A1	BEAM GUARD RAIL	AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
A2	BEAM GUARD RAIL - SHOP BENT	INDICATE ON BACK OF RAIL RADIUS THAT RAIL WAS BENT TO. SHOP BEND RADIUS IS TO THE NEAREST FOOT. FOLLOW AASHTO M180 ON HOW TO MARK RADIUS INFORMATION.	
		AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
B1	BLOCK - WOOD	WISDOT SPEC. 614	SEE SDD 14B42
C1	NAIL	ASTM A153 HOT DIP CLASS D	
		ASTM F1667 TYPE 1 STYLE 12 (16 DOUBLE HEAD)	
D1	POST-STRONG POST-WOOD	WISDOT SPEC. 614	SEE SDD 14B42
D2	POST-CRT-WOOD	WISDOT SPEC. 614	
E1	POST BOLT	ASTM A307 GRADE A OR SAE J429 GRADE 2	5/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		AASHTO M180	
		GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C/ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	
		UNC	
E2	POST BOLT-WASHER	ASTM F436 TYPE 1 (HARDEN TYPICALLY USED WITH STEEL) OR ASTM F844 (UNHARDENED TYPICALLY WITH WOOD)	5/8" DIA.
		GALV. AASHTO M111/ASTM A 123 OR GALV. HOT DIP. TO AASHTO M232 CLASS C/ASTM A153 CLASS C/ASTM F2329	
E3	POST BOLT - NUT		5/8" DIA. SEE SDD 14B42 FOR GEOMETRY
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C/ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	
		UNC	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		ASTM A563 GRADE A HEAVY HEX HEAD	
F1	SPLICE BOLT	GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C/ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	
		ASTM A307 GRADE A OR SAE J429 GRADE 2	5/8" DIA. SEE SDD 14B42 FOR GEOMETRY AND OTHER INFORMATION
		UNC	
		AASHTO M180	

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
F2	SPLICE BOLT - NUT	ASTM A563 GRADE A	5/8" DIA. SEE SDD 14B42 FOR GEOMETRY
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C/ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		UNC	
G1	LAG SCREW	ASTM A308 GRADE A ASTM A153 CLASS D	
			3/8" DIA. 3" LONG
H1	DELINEATOR - BEAM GUARD		SEE SDD 14B42 FOR MORE INFORMATION
H2	DELINEATION - SHEETING	YELLOW OR WHITE	
		WISDOT SPEC 637 TYPE SH	
		APPROVED PRODUCT LIST	
J1	FOUNDATION BACKFILL	STANDARD SPEC. 614	
AA1	BEAM GUARD RAIL - PUNCHED	AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
AA2	BEAM GUARD RAIL - END SECTION BUFFER	AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
BB1	BEAM GUARD RAIL - TERMINAL CONNECTOR MODIFIED	AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
CC1	SHORT RADIUS - SQUARE WASHER	AASHTO M180	
		GALV. AASHTO M111 / ASTM A123	
EE1	NAIL	ASTM A153 HOT DIP CLASS D	
		ASTM F1667 TYPE 1 STYLE 12 (16 DOUBLE HEADED)	
FF1	POST - BCT - WOOD	S4S FINISH ON 4 SIDES	
		WISDOT SPEC. 614	
GG1	POST BOLT	ASTM A307 GRADE A OR SAE J429 GRADE 2	3/8" DIA. SEE SDD 14B42 FOR GEOMETRY
		AASHTO M180	
		GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	
		UNC	
GG2	POST BOLT - WASHER	ASTM F436 TYPE 1 (HARDEN TYPICALLY USED WITH STEEL) OR ASTM F844 (UNHARDENED TYPICALLY WITH WOOD)	3/8" DIA.
		GALV. AASHTO M111 / ASTM A123 OR5 GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

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S.D.D. 14 B 53-1g

BILL OF MATERIALS - SHORT RADIUS BEAM GUARD (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
GG3	POST BOLT - NUT	ASTM A563 GRADE A	3/8" DIA.
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	SEE 14B42 FOR GEOMETRY
		GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	
		UNC	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		ASTM A563 GRADE A HEAVY HEX HEAD	
HH1	SPLICE BOLT	GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	3/8" DIA. SEE 14B42 FOR GEOMETRY
		ASTM A307 GRADE A OR SAE J429 GRADE 2	
		UNC	
		AASHTO M180 HEAD GEOMETRY	
HH2	SPLICE BOLT - NUT	ASTM A563 GRADE A	3/8" DIA.
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	SEE 14B42 FOR GEOMETRY
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		UNC	
JJ1	PIPE - STEEL	ASTM A53 GALVANIZED GRADE B SCHEDULE 40	10" O.D.
JJ2	TOP PLATE	ASTM A36 MIN STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	DIMENSIONS 3/8" X 4" X 1'-0"
		GALV. AASHTO M111 / ASTM A123	
KK1	ANCHOR BRACKET	ASTM A36 MIN STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	
		GALV. AASHTO M111 / ASTM A123	
KK2	ANCHOR BRACKET - BEARING PLATE	ASTM A36 MIN STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	
		GALV. AASHTO M111 / ASTM A123	
LL1	ANCHOR BRACKET - BOLT	ASTM A307 GRADE B HEAVY HEX HEAD OR SAE J429 GRADE 2 HEAVY HEX HEAD	5/8" DIA.
		GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	
		UNC	
LL2	ANCHOR BRACKET - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	5/8" DIA.
		GALV. AASHTO M111 / ASTM A123 OR5 GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	
LL3	ANCHOR BRACKET - NUT	ASTM A563 GRADE A	5/8" DIA.
		GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A563	
		UNC	

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
MM1a	ANCHOR CABLE	AASHTO M30 / ASTM A741 INDEPENDENT WIRE CORE (IWRC) OR WIRE STRAND CORE (WCS), IMPROVED PLOW STEEL (IPS), 6X19, TYPE II OR IIc CLASS C ZINC COATED	
MM1b	ANCHOR CABLE	AASHTO M30 / ASTM A741 INDEPENDENT WIRE CORE (IWRC) OR WIRE STRAND CORE (WCS), IMPROVED PLOW STEEL (IPS), 6X19, TYPE II OR IIc CLASS C ZINC COATED	
MM2	ANCHOR CABLE - SWAGE FITTING	ASTM A576 GRADE 1035	
		SWAGE FITTINGS ARE TO BE FACTORY SWEDGED. WITH A BREAKING STRENGTH 40,000 LBS.	
		GALV. AASHTO M111 / ASTM A123	
		ASME B30.26 FORGED, CAST, OR DIE STAMPED WITH THE FOLLOWING INTO CONNECTION: NAME OF MANUFACTURER OR TRADEMARK OF CONNECTION'S MANUFACTURER, SIZE OR RATED LOAD, GRADE.	
MM3	WIRE ROPE CABLE CLAMPS	FF-C-450D TYPE 1 CLASS 1	3/4"
		ASTM A153 HOT DIP CLASS D	
MM4	ANCHOR CABLE - SWAGE FITTING - STUD	ASTM F3125 GRADE A325 TYPE 1 OR SAE GRADE 5 OR ASTM A449 TYPE 1 HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	
		UNC	
NN1	ANCHOR CABLE - NUT	ASTM A563 GRADE A	1" DIA.
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A563	
		UNC	
NN2	ANCHOR CABLE - NUT - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	1" DIA.
		GALV. AASHTO M111 / ASTM A123 OR5 GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	
PP1	BEARING PLATE AT POST	ASTM A36 MIN STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	
		GALV. AASHTO M111 / ASTM A123	
PP2	PIPE - STEEL	ASTM A53 GALVANIZED GRADE B SCHEDULE 40	2" DIA. x 6" LONG
QQ1	FOUNDATION TUBE	ASTM A500 GRADE B	8" X 6" X 3/16"
		GALV. AASHTO M111 / ASTM A123	
QQ2	SHORT RADIUS - FOUNDATION TUBE - ANCHOR CABLE - TUBE	ASTM A500 GRADE B	DIMENSIONS 2 1/2" X 2 1/4" X 1/4" X 8"
		GALV. AASHTO M111 / ASTM A123	

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPOI

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S.D.D. 14 B 53-1h

BILL OF MATERIALS - SHORT RADIUS BEAM GUARD (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
003	SHORT RADIUS - SOIL TUBE - ANCHOR CABLE - TUBE - END PLATE	ASTM A36 MIN STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	DIMENSIONS 2½" X 2½" X ¼"
		GALV. AASHTO M111 / ASTM A123	
004	GROUND STRUT AND YOKE - BOLT	GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	⅝" DIA.
		ASTM A307 GRADE B HEAVY HEX HEAD OR SAE J429 GRADE 2 HEAVY HEX HEAD	
		UNC	
005	GROUND PLATE AND YOKE - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	⅝" DIA.
		GALV. AASHTO M111 / ASTM A123 OR5 GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	
006	GROUND STRUT AND YOKE - NUT	HEAVY HEX	⅝" DIA.
		UNC	
		ASTM A563 GRADE A	
		OVER TAPPED NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
SS1	SOIL PLATE	ASTM A36 MIN STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	
		GALV. AASHTO M111 / ASTM A123	
TT1	SOIL PLATE - BOLT	ASTM A307 GRADE B HEAVY HEX HEAD OR SAE J429 GRADE 2 HEAVY HEX HEAD	⅝" DIA.
		GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	
		UNC	
TT2	SOIL PLATE - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	⅝" DIA.
		GALV. AASHTO M111 / ASTM A123 OR5 GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	
TT3	SOIL PLATE - NUT	GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	⅝" DIA.
UU1	OBJECT MARKER - SHEETING	MUTCD / WISDOT OBJECT MARKER TYPE 3	PATTERN AND COLOR FOR SHEETING SHEETING TYPE FOR MARKER
		WISDOT SPEC 637 TYPE F	
		APPROVED PRODUCT LIST	
UU2	OBJECT MARKER - ALUMINUM PLATE	WISDOT SPEC 637 ALUMINUM PLATE	MATERIAL AND THICKNESS OF MATERIALS
UU3	OBJECT MARKER - SCREWS	STAINLESS SELF-TAPPING SCREWS	
VV1	FOUNDATION BACKFILL	WISDOT SPEC 614	

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS D UNIT SUPERVI
NT
FHWA

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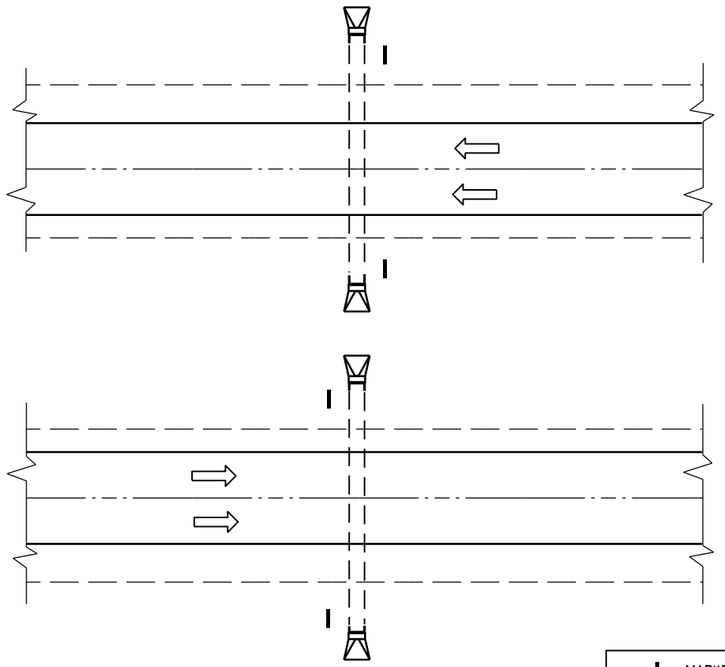
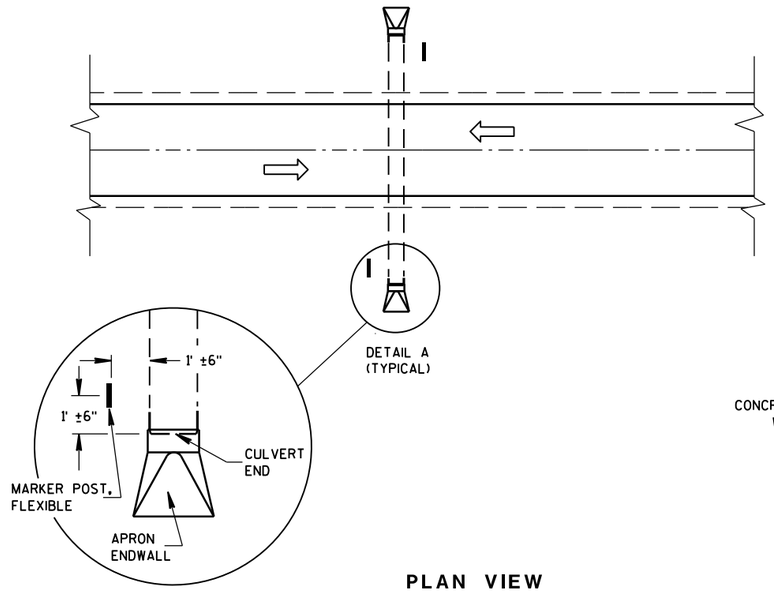
S.D.D. 14 B 53-1i



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

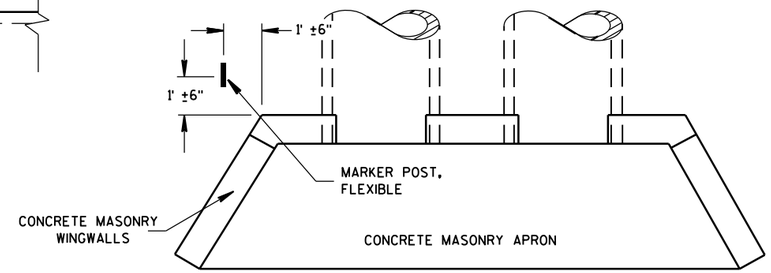
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

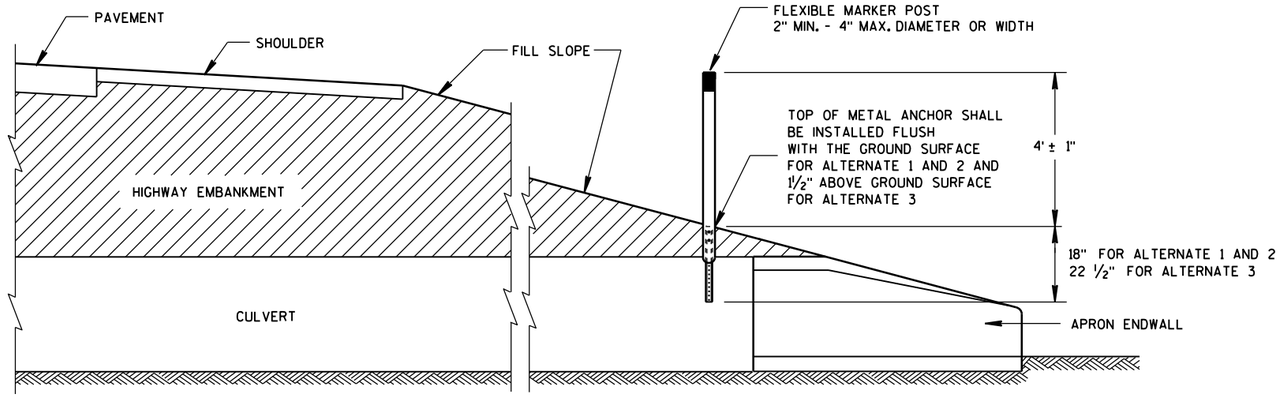
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



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 TRANSPOI

6

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

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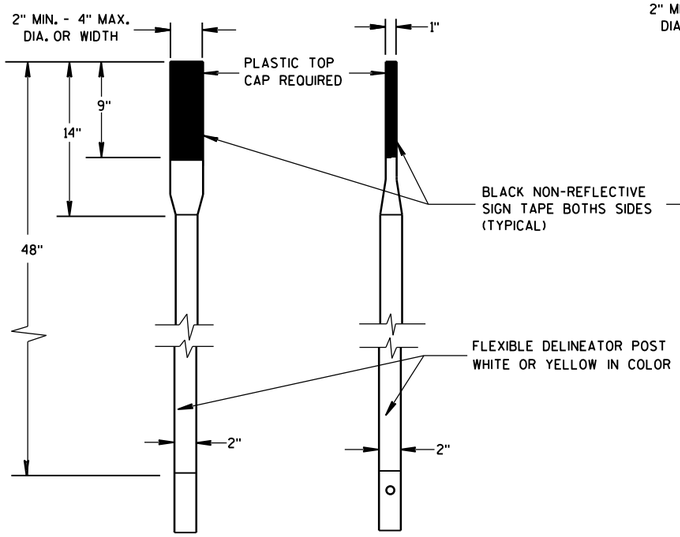
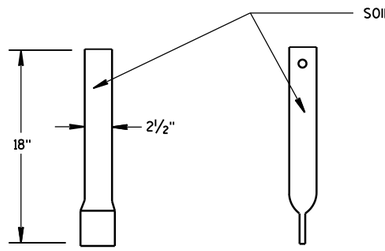
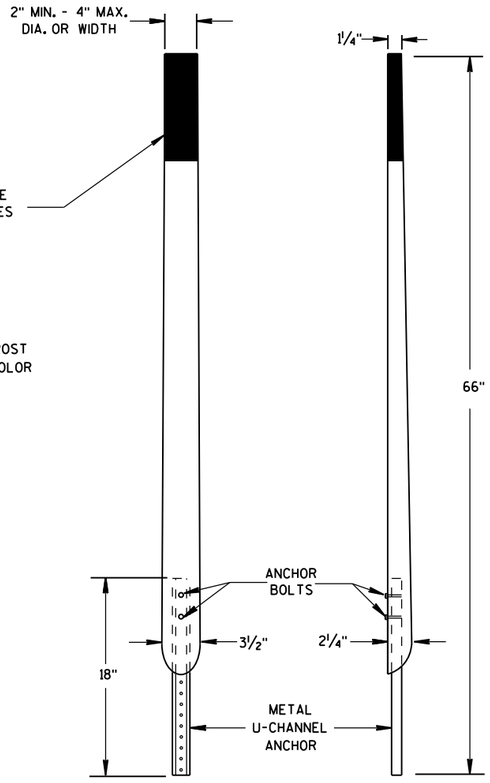
S.D.D. 15 A 3-2a





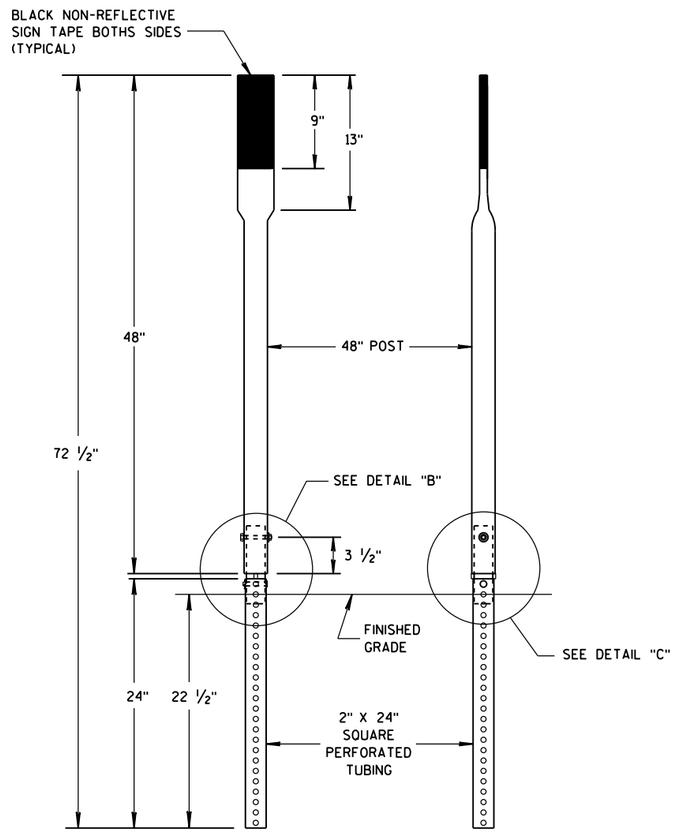
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

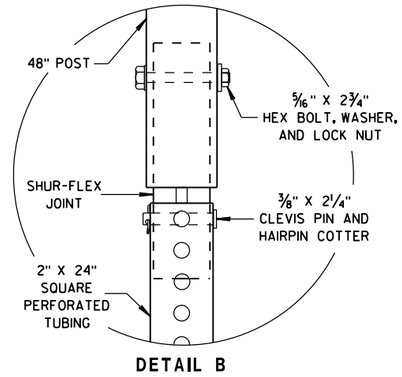
ALTERNATE 2



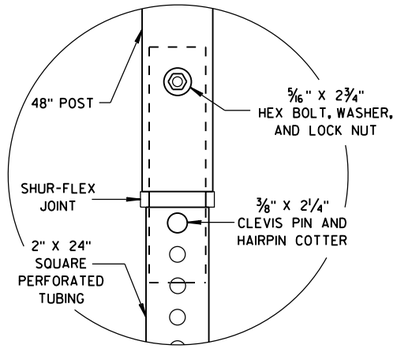
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POSTS



DETAIL B



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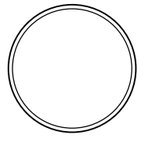

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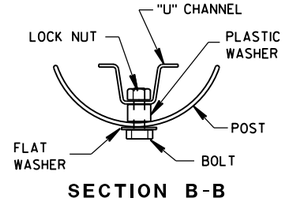

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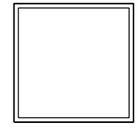
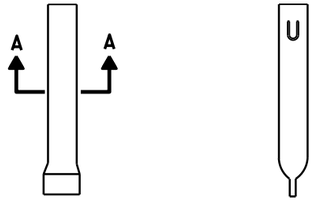
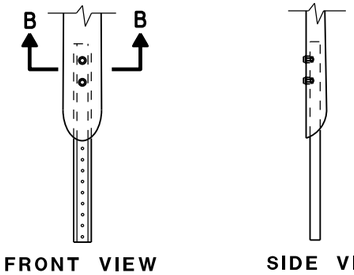


SECTION C-C



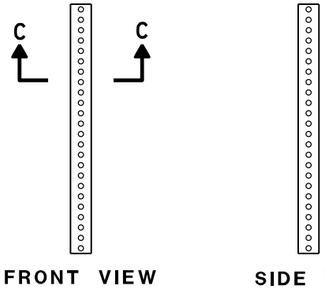
FRONT VIEW SIDE VIEW

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

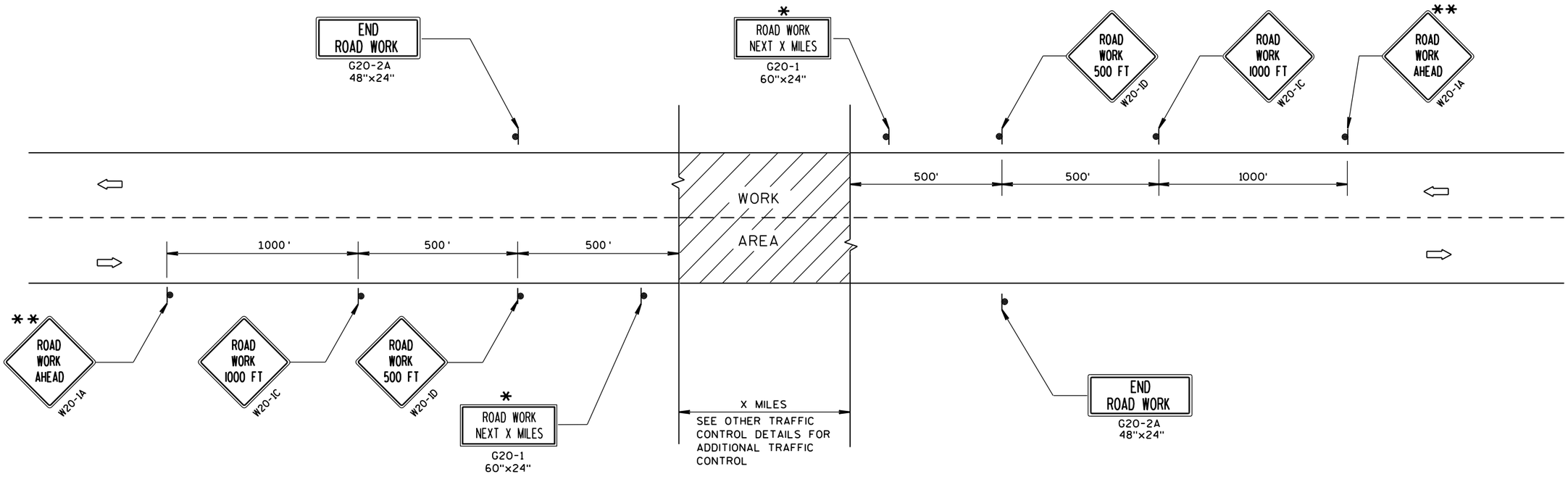
APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

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

6

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



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

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.

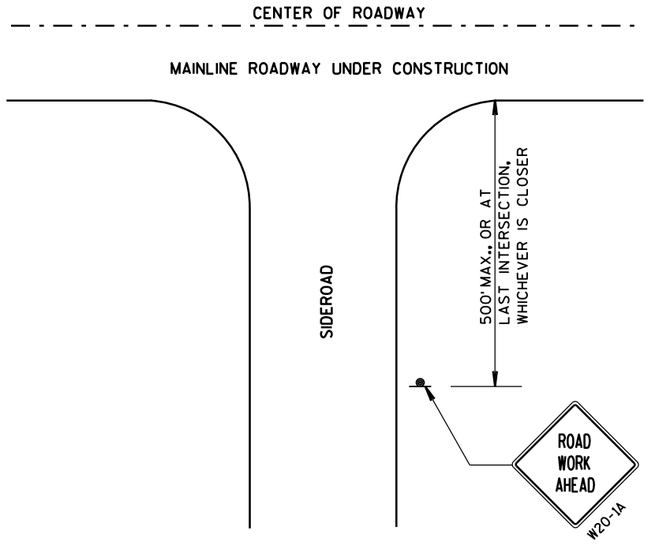
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 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 RE-ESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

** PLACE 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

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

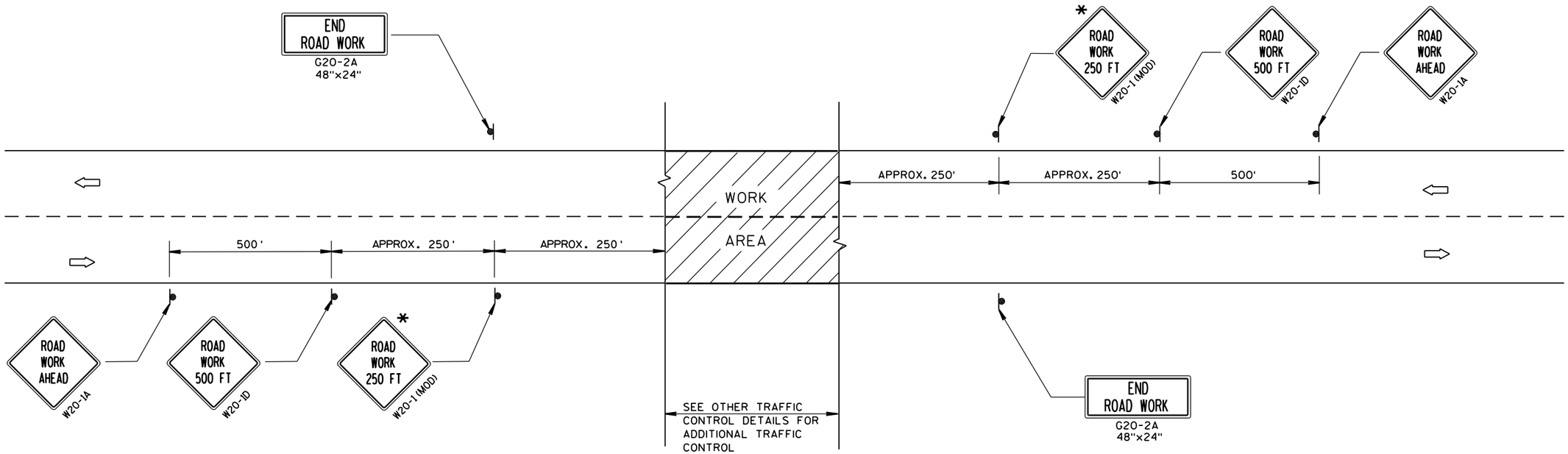
APPROVED

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

FHWA

6

S.D.D. 15 C 4-3



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

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

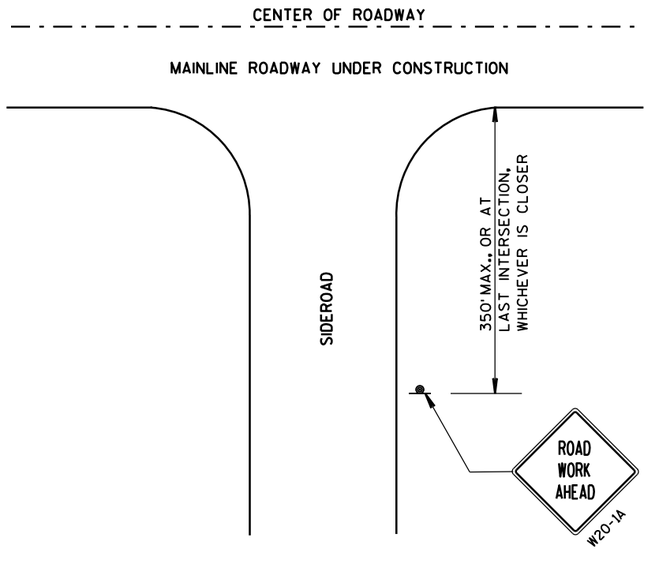
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 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 RE-ESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



LEGEND

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

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

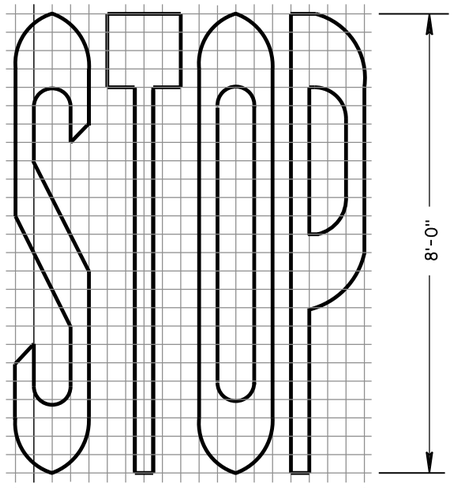
APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZOI SAFETY ENGIN — IC
FHWA

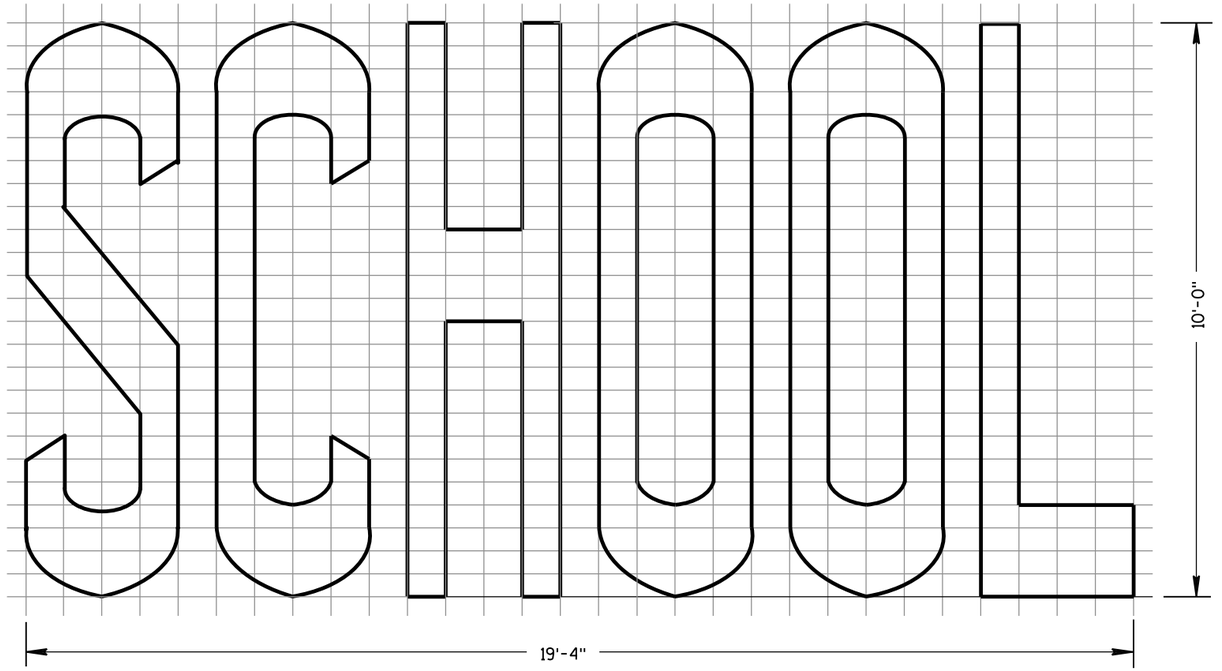
6

S.D.D. 15 C 5-3

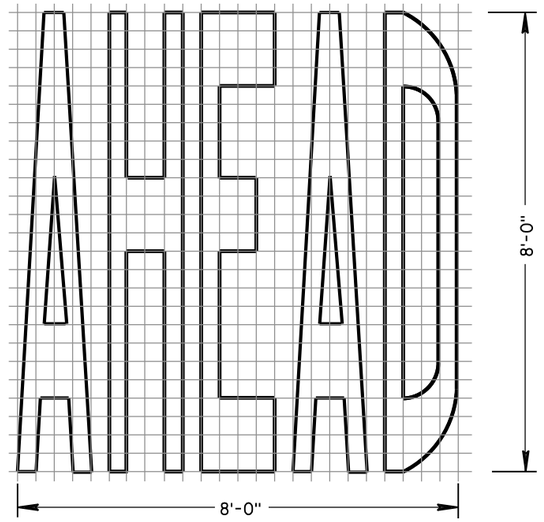
GENERAL NOTES

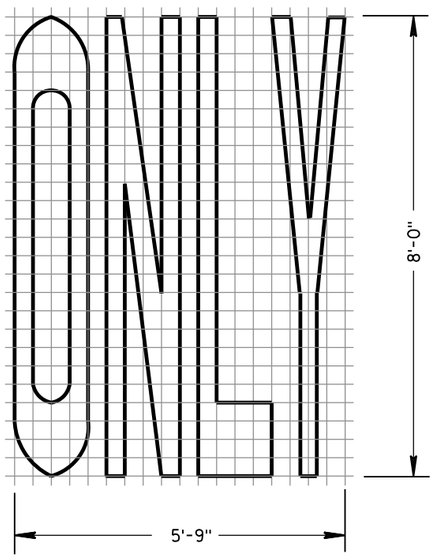
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

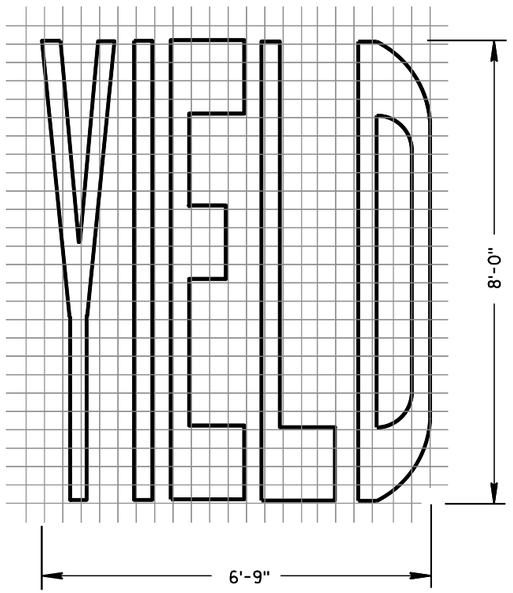


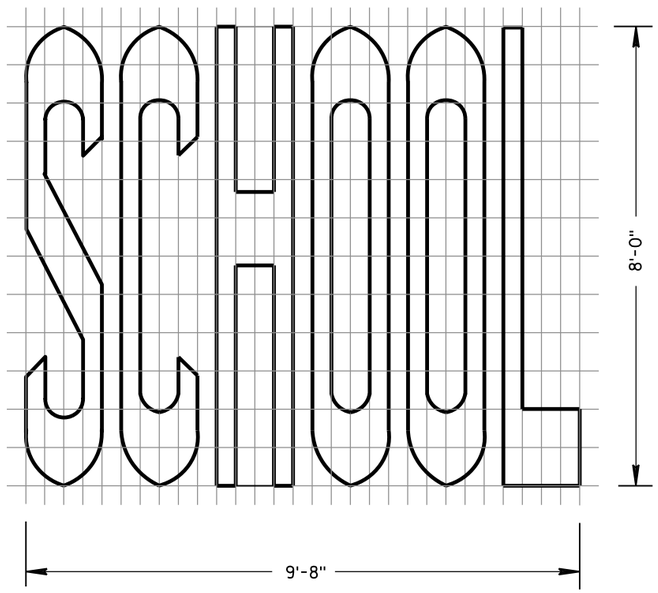


TWO-LANE









SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-18-16 DATE
/S/ Matthew R. Rauch STATE SIGNING AND MARK EER
FHWA

6

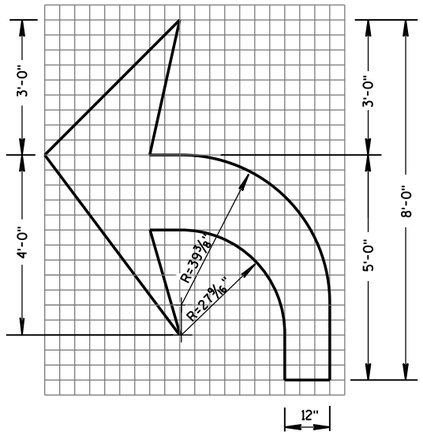
S.D.D. 15 C 7-13b

6

S.D.D. 15 C 7-13b

GENERAL NOTES

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



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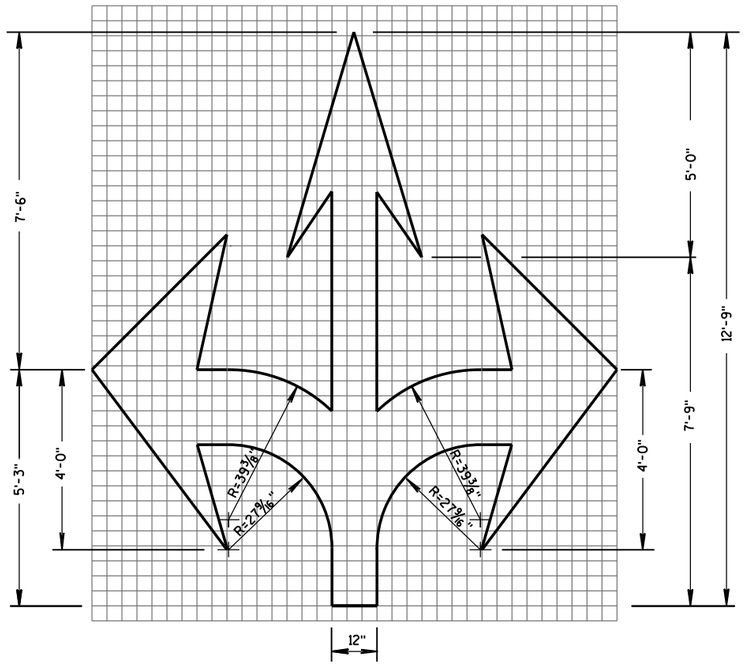
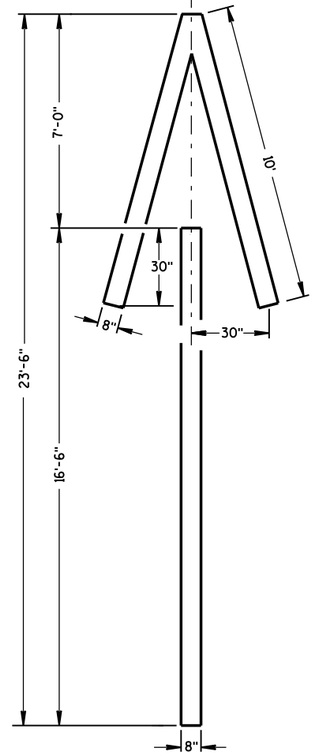


TYPE 6



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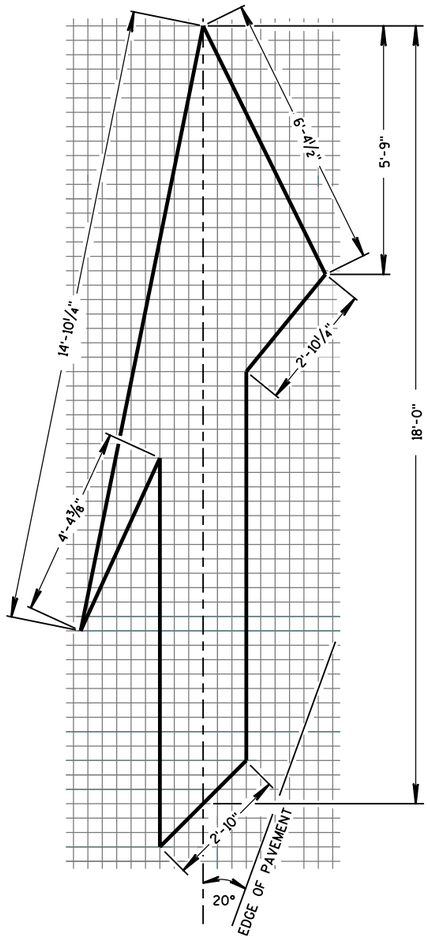
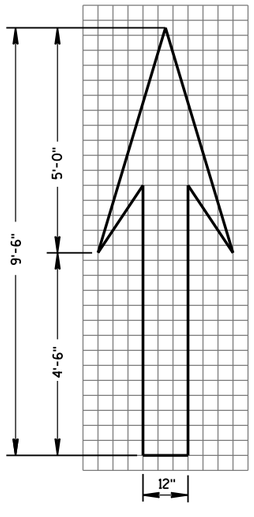


TYPE 5 LANE DROP ARROW



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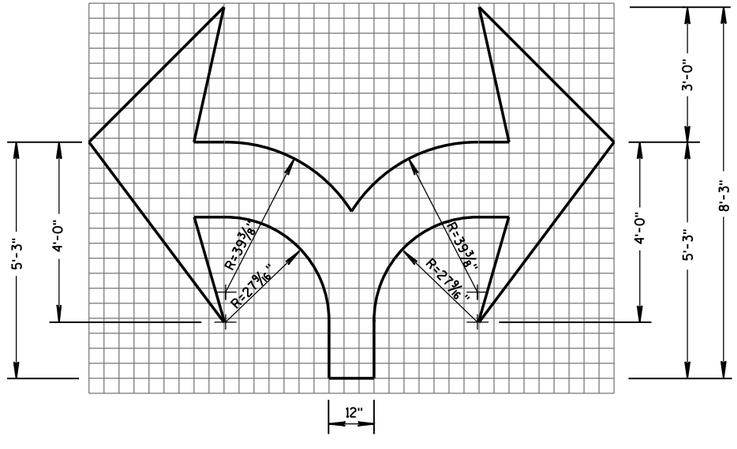

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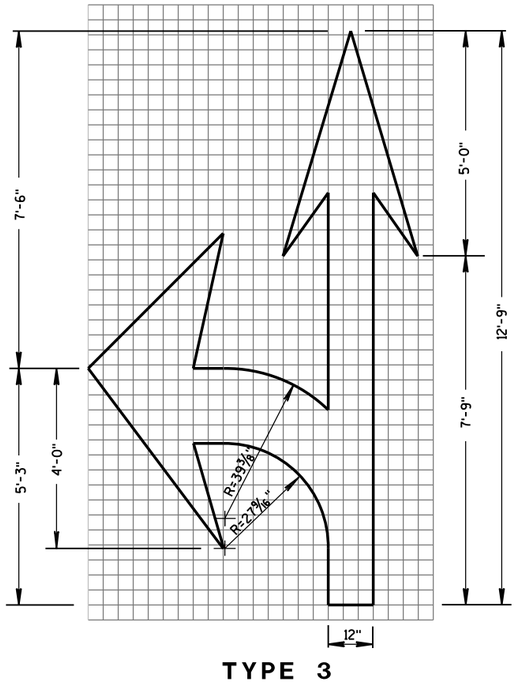


TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

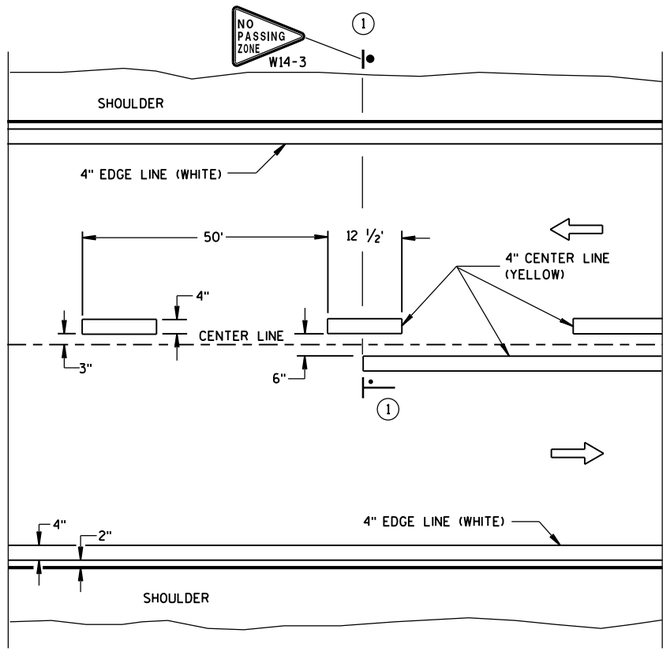
APPROVED
4-18-16
DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MAR
ENGINEER
FHWA

6

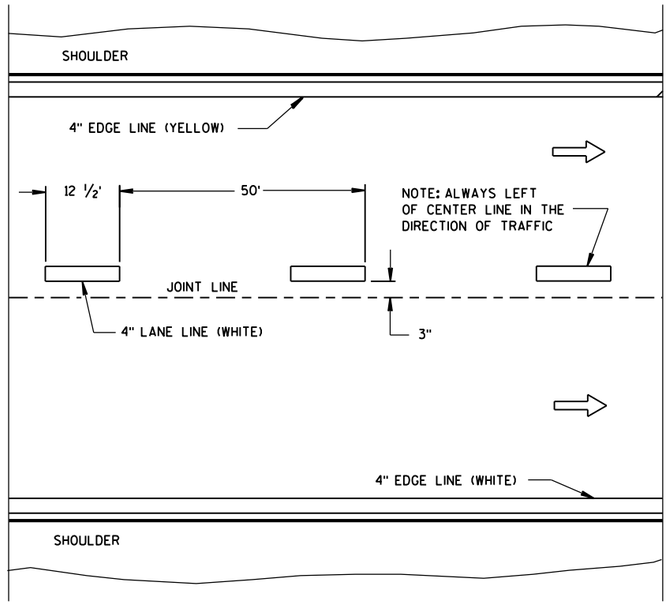
S.D.D. 15 C 7-13c

6

S.D.D. 15 C 7-13c



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

GENERAL NOTES

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

(1) NO PASSING ZONE W14-3 SIGN SHALL BE LOCATED WITHIN 50 FEET OF THE "T" MARKING.

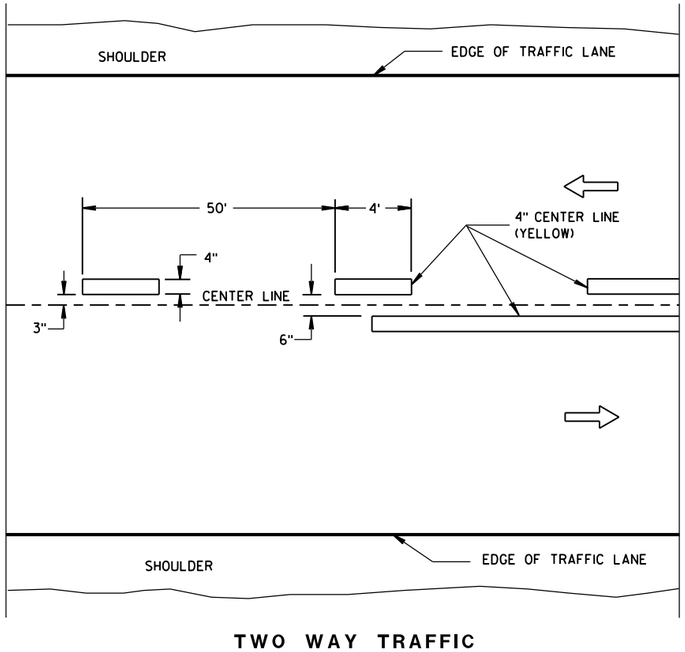
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

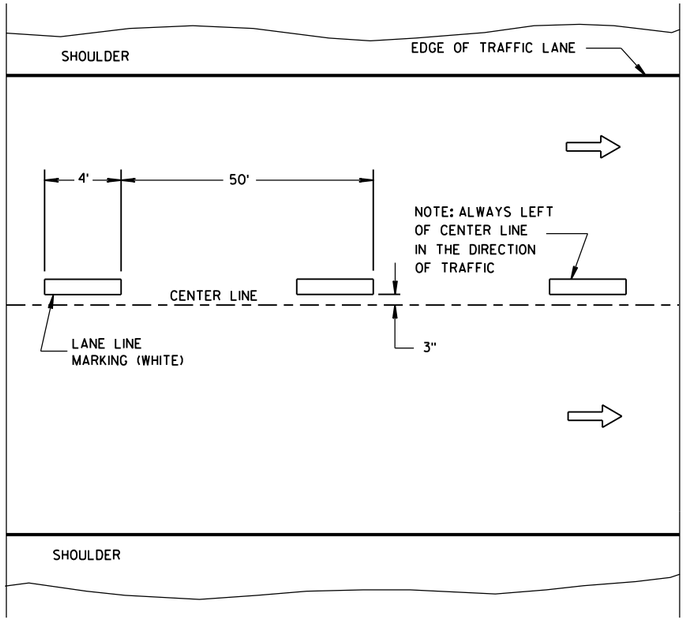
LEGEND

"T" MARKING

POST MOUNTED SIGN



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

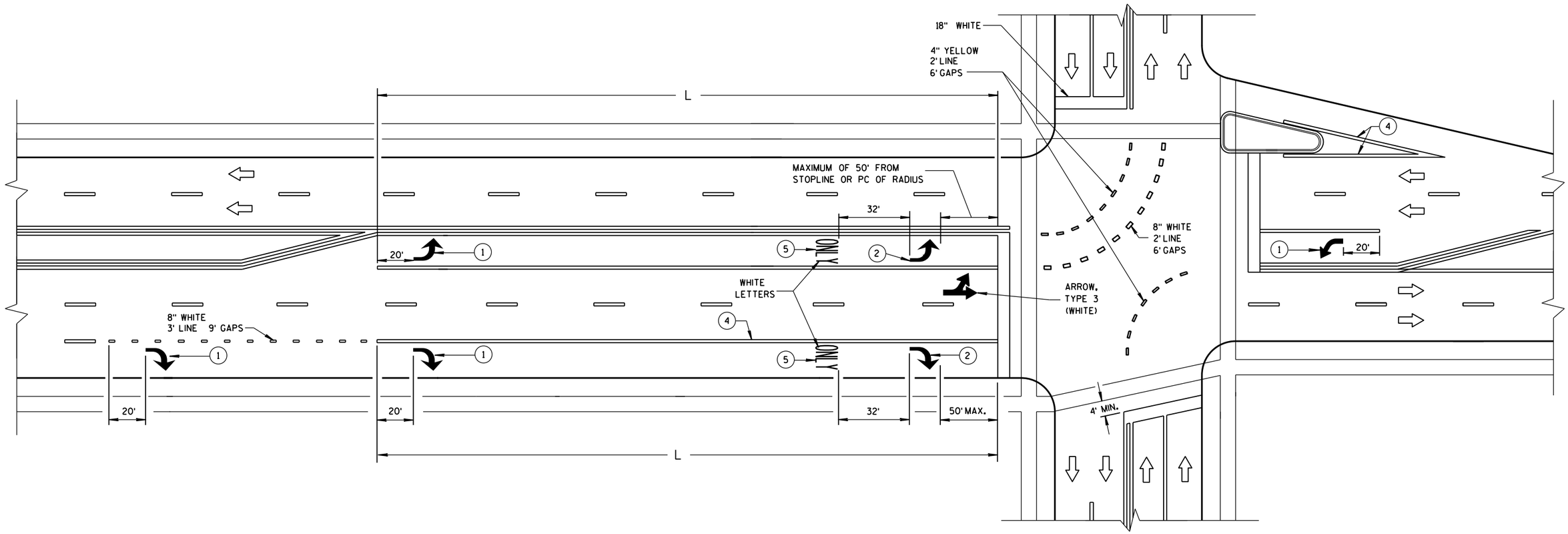
APPROVED
Sept., 2016 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MARKING ENGINEER
FHWA

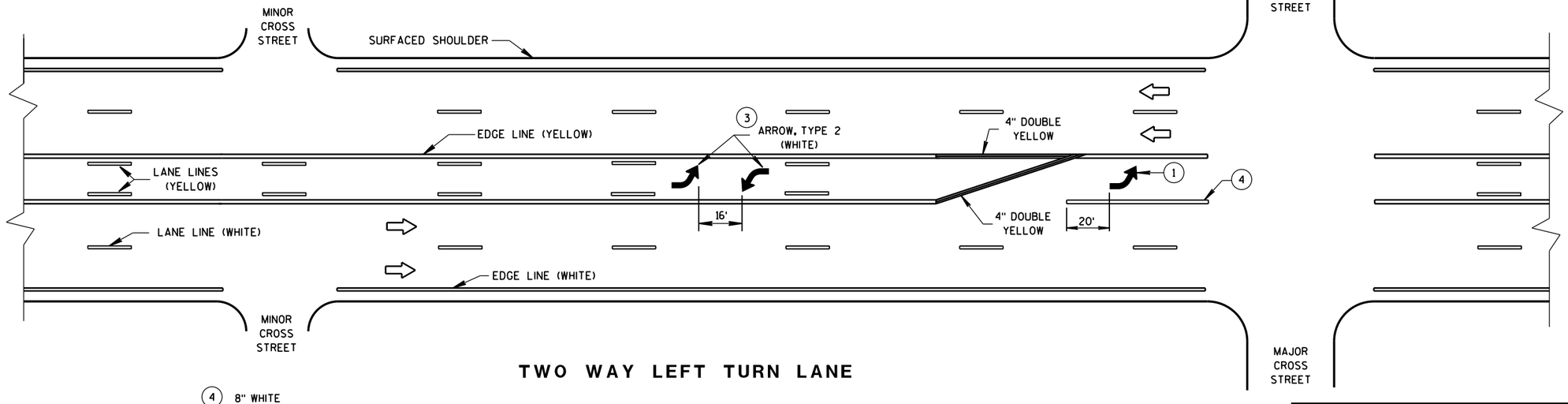
6

S.D.D. 15 C 8-17a

6

S.D.D. 15 C 8-17a





GENERAL NOTES

(1) REQUIRED ARROW, TYPE 2 (WHITE).

(2) REQUIRED ARROW, TYPE 2 (WHITE) WHEN L IS GREATER THAN 78 FEET AND LESS THAN OR EQUAL TO 166 FEET.

(3) A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.

(4) 8" WHITE

(5) REQUIRED WORD ONLY WHEN L IS GREATER THAN 166 FEET.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL

L = LENGTH OF TURN BAY

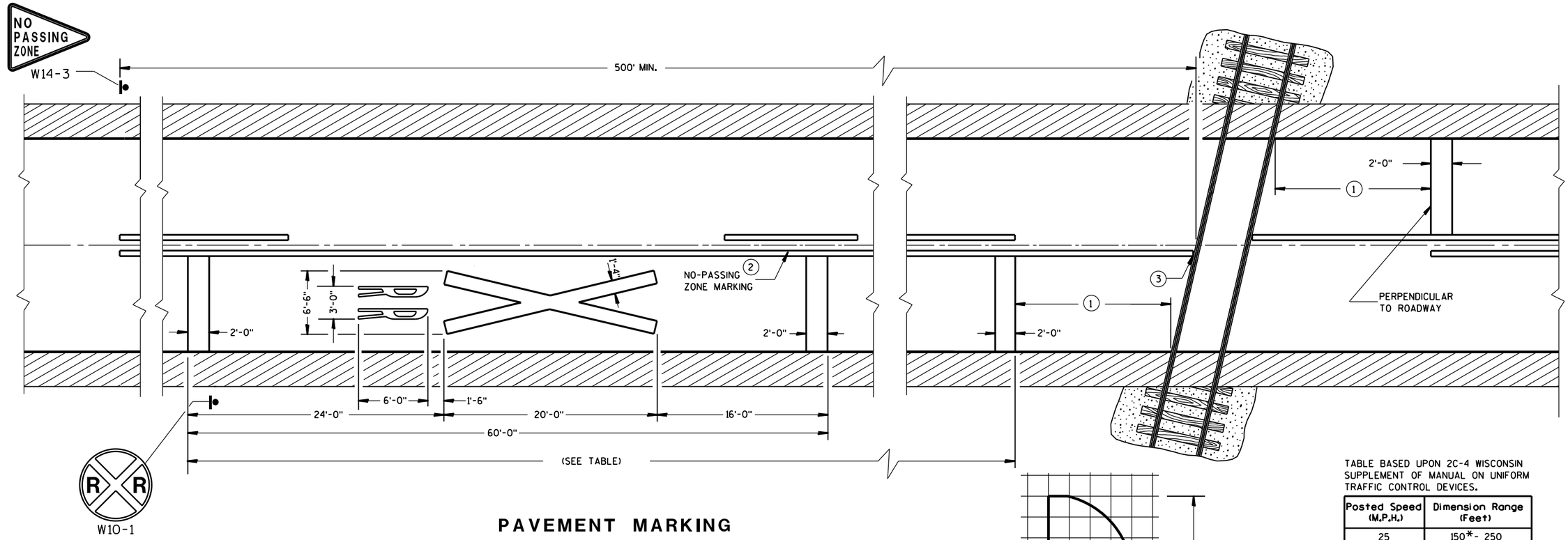
TWO WAY LEFT TURN LANE

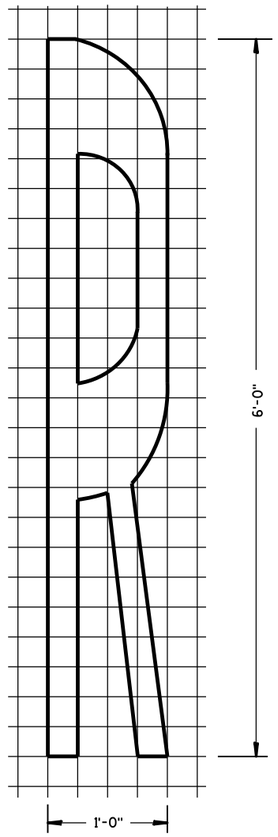
PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 15 C 8-17b





PAVEMENT MARKING

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.

RETRACE EXISTING SYMBOL WHERE EXISTING SYMBOLS ARE PLACED.

(1) MINIMUM 8' FROM ANY RAILROAD WARNING DEVICES (SIGNALS, GATES, ETC.) OR 25' FROM THE NEAREST RAIL, WHICHEVER DISTANCE IS GREATER.

(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.

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 CLOSE PROXIMITY OF DRIVEWAYS, BRIDGES, SIDEROADS 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
4-18-2016 DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MAI[illegible] GINEER
FHWA

6

S.D.D. 15 C 9-10a

6

S.D.D. 15 C 9-10a

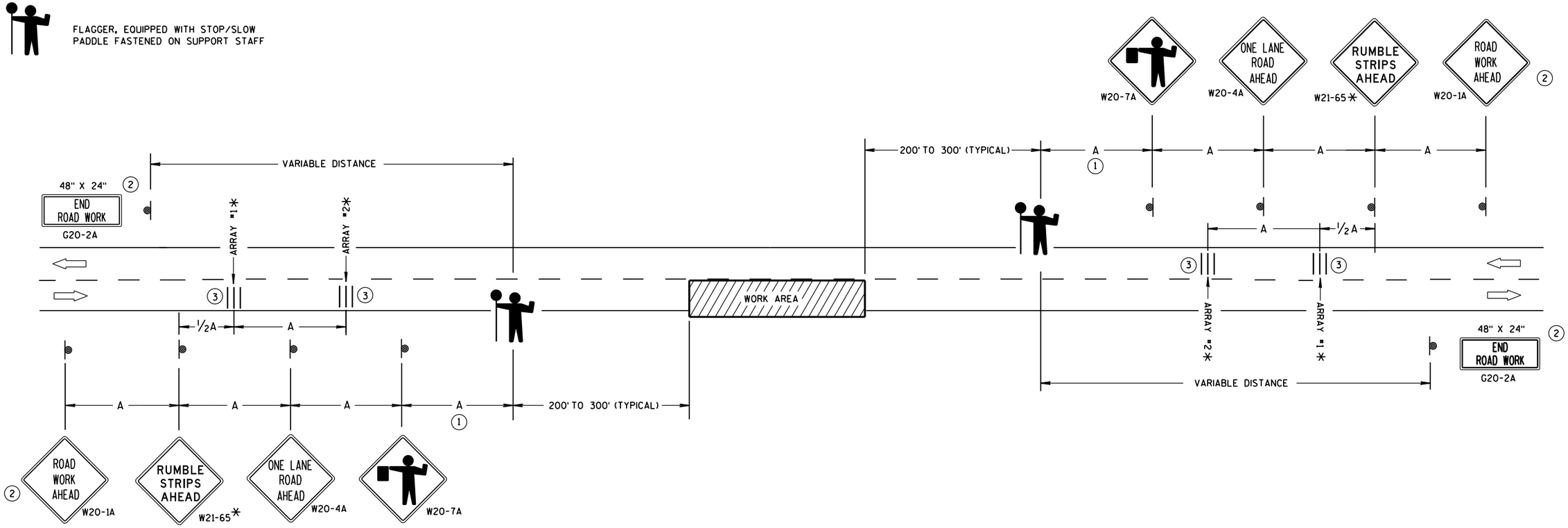
LEGEND

- SIGN ON PORTABLE OR PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING A
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'

USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING A.



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

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

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

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

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, REMOVE TEMPORARY RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

* UTILIZE TEMPORARY RUMBLE STRIPS WHEN FLAGGING OPERATION IS ANTICIPATED TO BE STATIONARY IN EXCESS OF TWO HOURS.

(1) FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS (IF USED) SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3,500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

(3) EACH TEMPORARY RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December, 2016 — /S/ Andrew Heldtke
DATE — WORK ZONE ENG
FHWA

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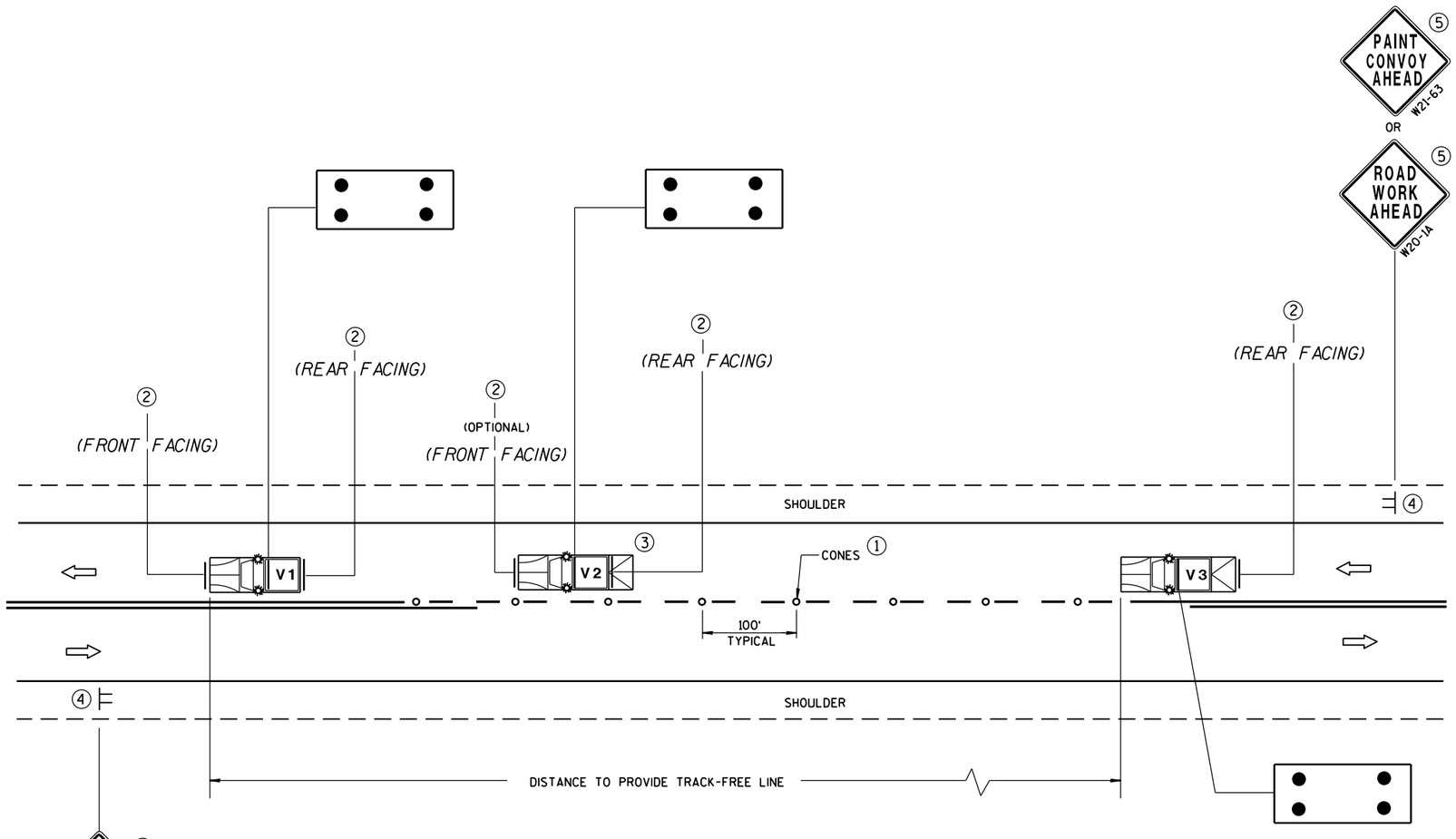
S.D.D. 15 C 12-5



MOVING PAVEMENT MARKING OPERATIONS
TWO-LANE TWO-WAY ROADWAY

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

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

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE MARKING.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

(1) CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

(2) USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.

WET PAINT W21-64 OR WET PAINT W21-64

(3) OPTIONAL TRUCK-MOUNTED ATTENUATOR.

(4) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

(5) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

V1	LEAD VEHICLE
V2	SHADOW VEHICLE
V3	TRAIL VEHICLE WITH TMA
TMA	TRUCK-MOUNTED ATTENUATOR
	SIGN ON TEMPORARY SUPPORT
	DIRECTION OF TRAFFIC
	CONES
	FLASHING ARROW PANEL (CAUTION)

MOVING PAVEMENT MARKING OPERATION
TWO-LANE TWO-WAY ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 — DATE
/S/ Peter Amakobe Atepe — STATEWIDE WORK ZON SAFETY ENGINE
FHWA

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S.D.D. 15 C 19-4a

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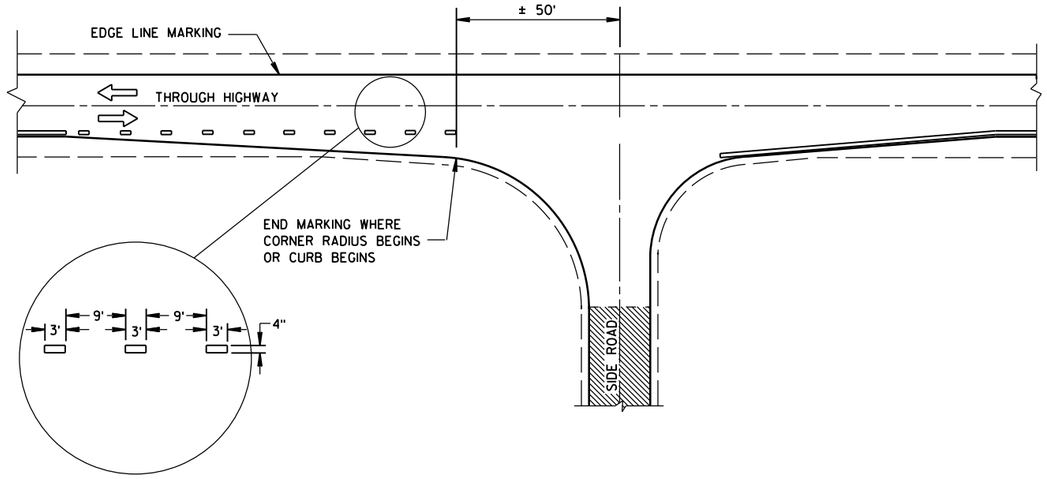
S.D.D. 15 C 19-4a



MINOR INTERSECTION WITHOUT CURBS

GENERAL NOTES

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.

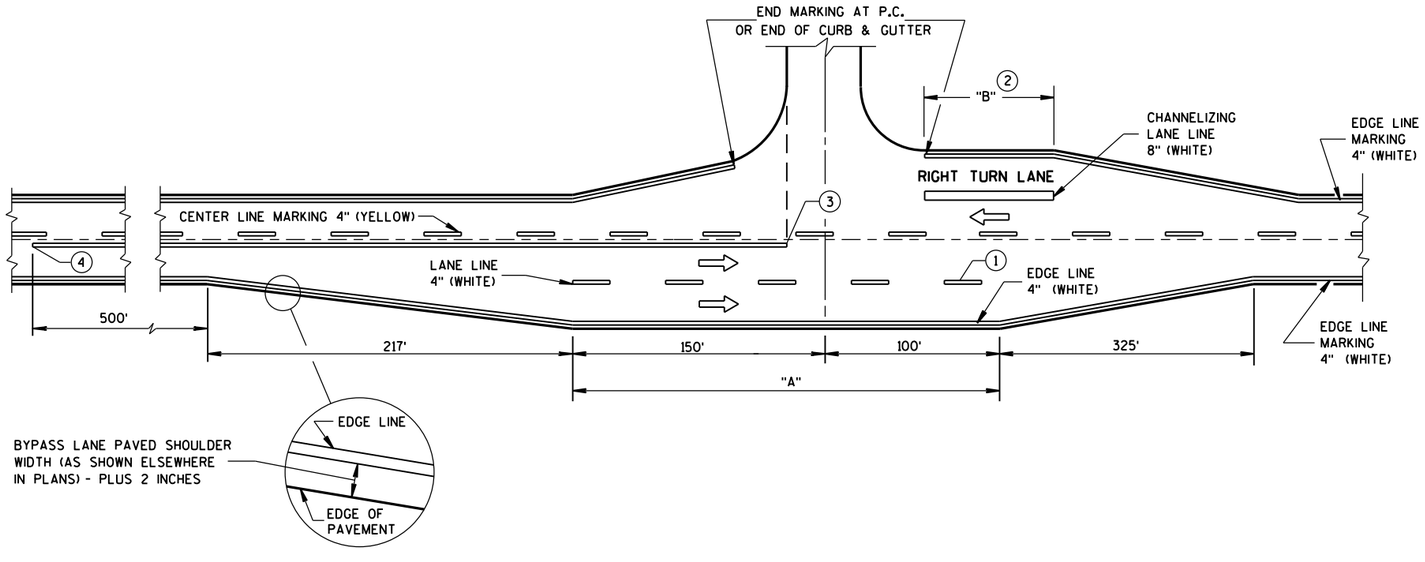
(1) WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.

(2) WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.

(3) BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.

(4) BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)

PAVEMENT MARKING
(INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 15 C 35-1a

GENERAL NOTES

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

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

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

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.

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

TABLE A

S \ W	SHOULDER TAPER LENGTH (FEET) 4	6	8	10	BUFFER SPACE (FEET)
30	20	30	40	50	200
35	30	45	55	70	250
40	40	55	75	90	305
45	60	90	120	150	360
50	70	100	135	170	425
55	75	110	150	185	495

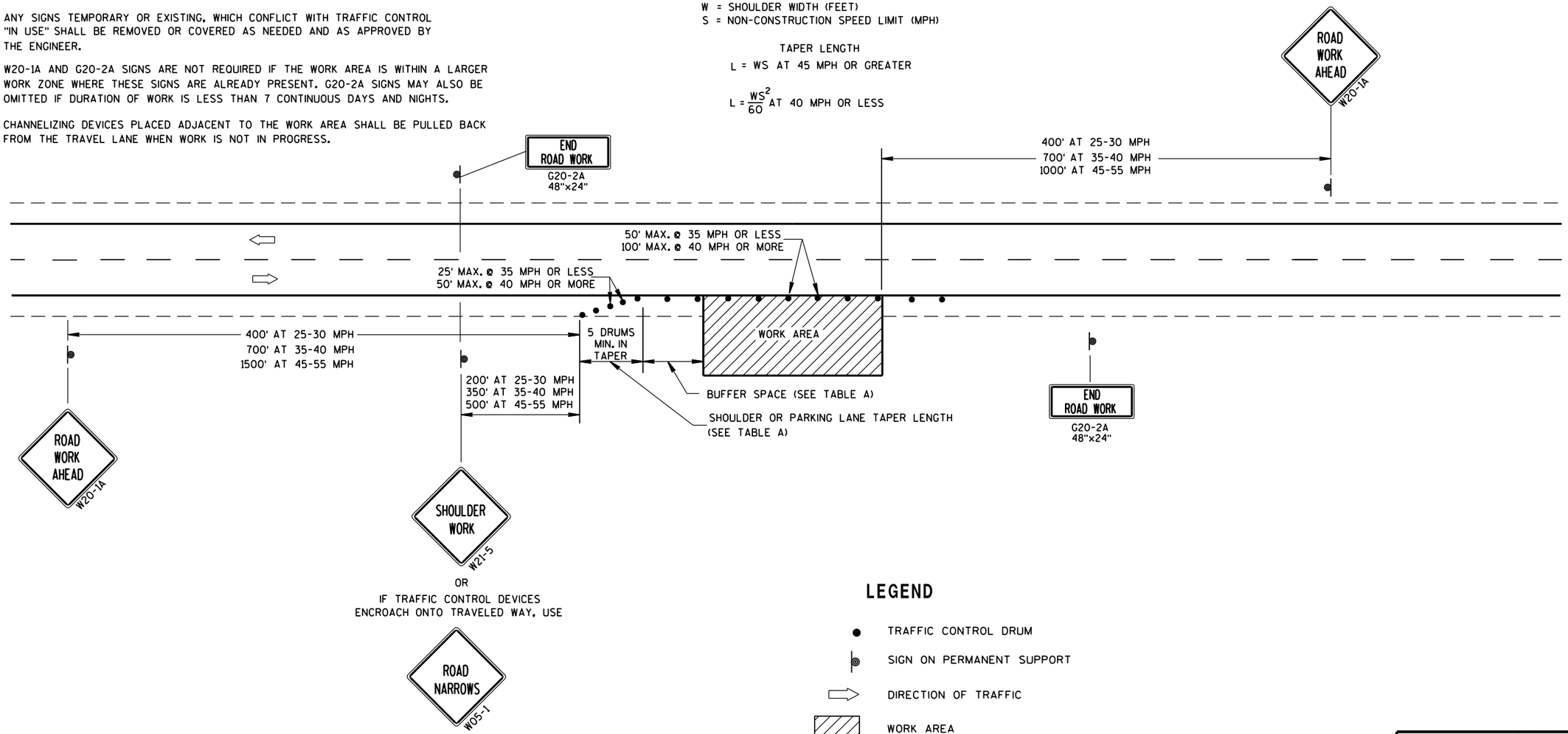
W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

TAPER LENGTH

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

SHOULDER TAPER LENGTH = $\frac{1}{3}L$



LEGEND

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

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

July 14, 2015 — DATE

/S/ Peter Amakobe Atepe — STATEWIDE WORK ZO[illegible] SAFETY ENGI[illegible] FIC

FHWA

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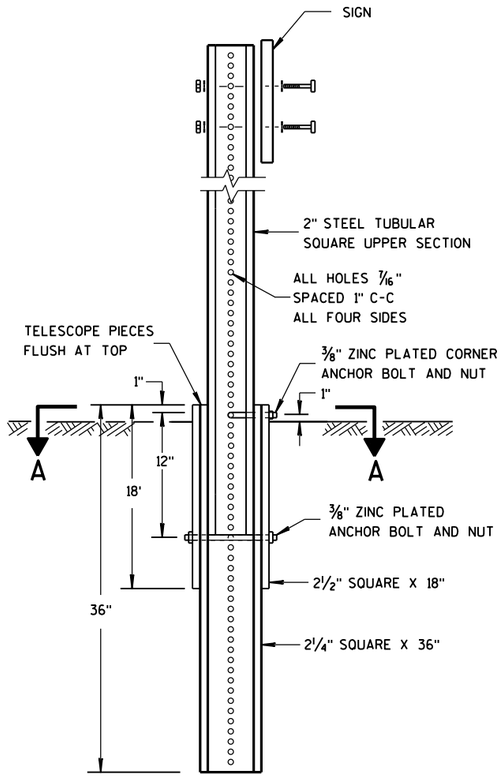
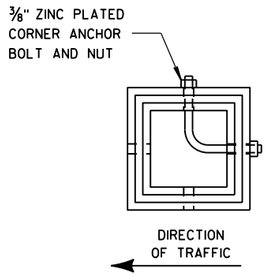
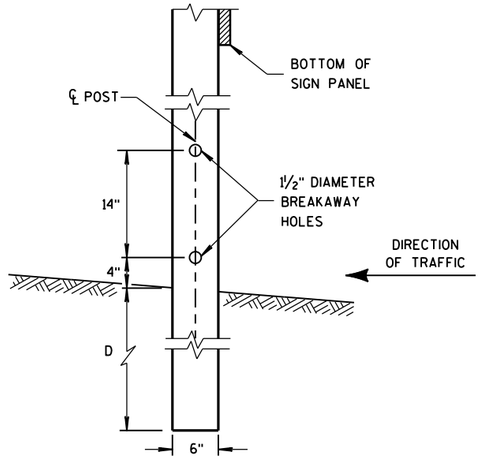
S.D.D. 15 D 28-3



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



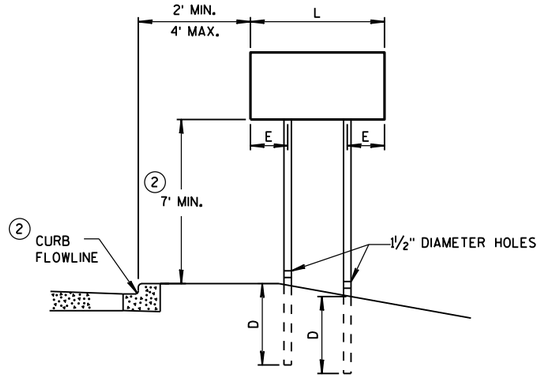
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

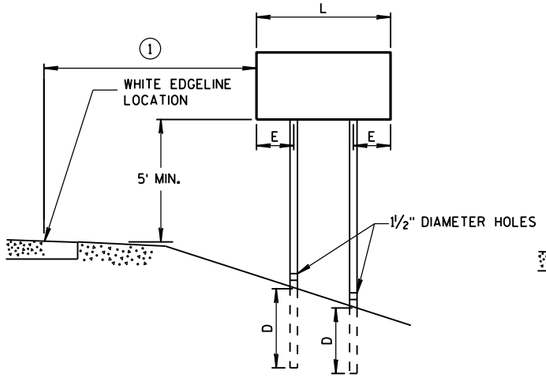
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

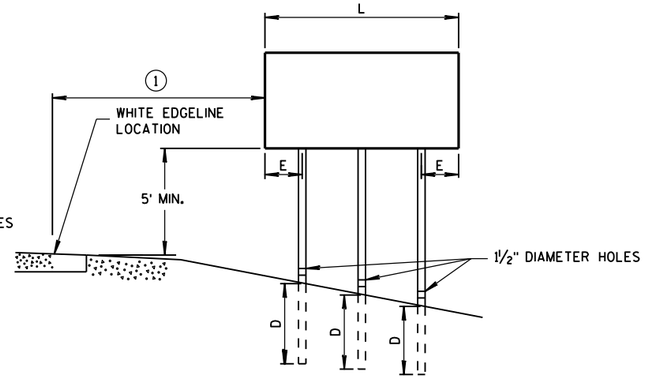
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL 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).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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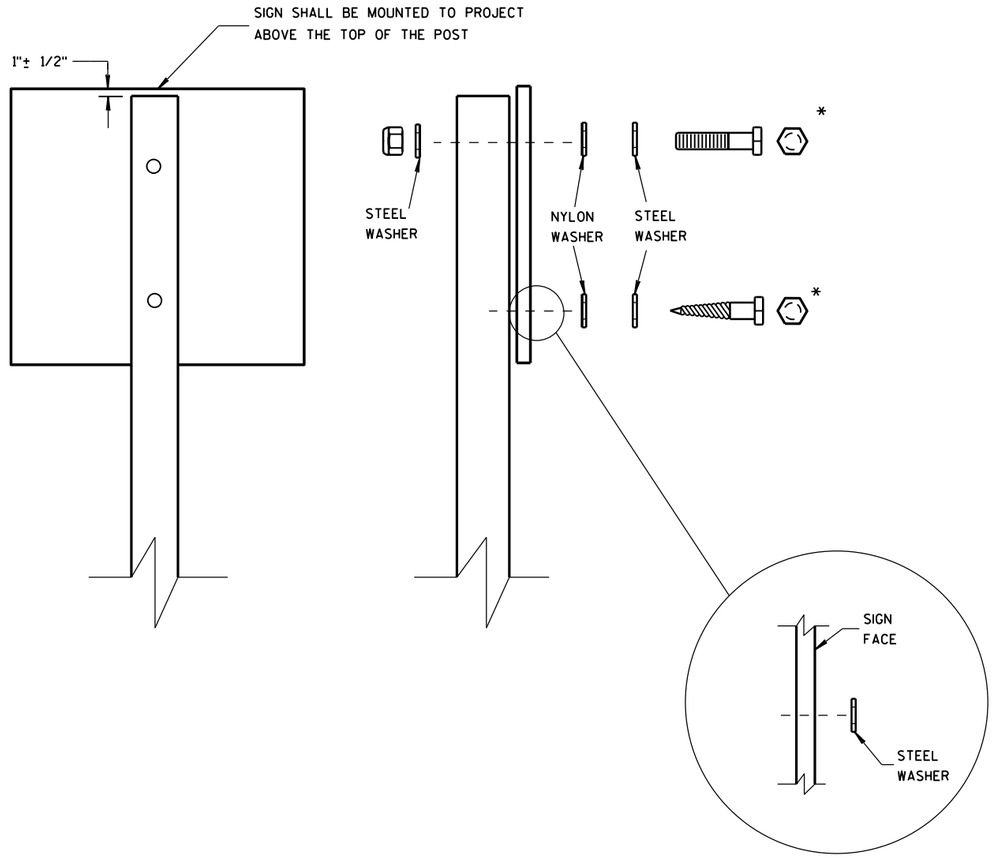
S.D.D. 15 D 38-2a
S.D.D. 15 D 38-2a



WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3

B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 5/16" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

* 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. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

6

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S.D.D. 15 D 38-2b

S.D.D. 15 D 38-2b

ATTACHMENT OF SIGNS TO POSTS

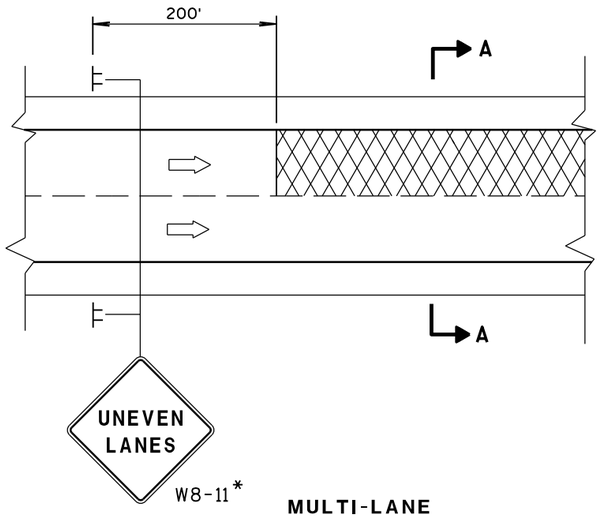
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

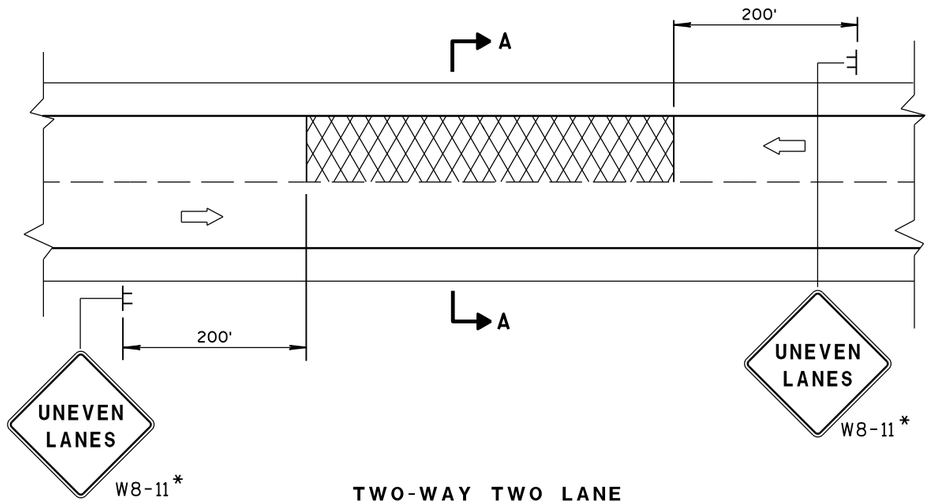
June 2017
DATE

/S/ Andrew Heldtke
WORK ZONE ENG

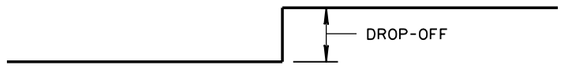
FHWA



MULTI-LANE

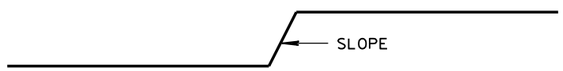


TWO-WAY TWO LANE

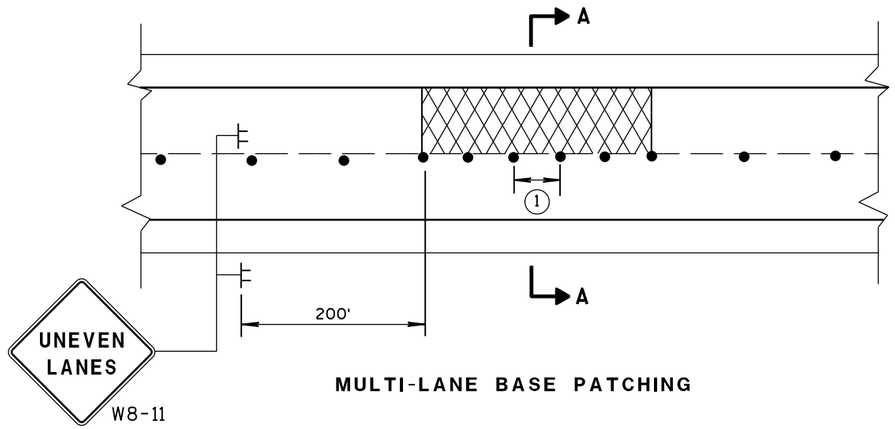


SECTION A-A

OR

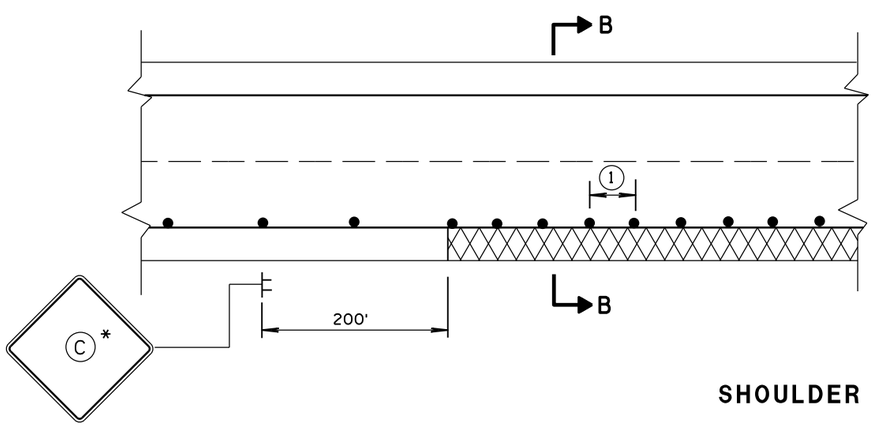


SECTION A-A

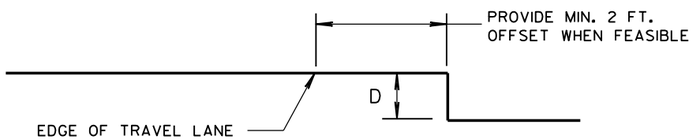


MULTI-LANE BASE PATCHING

ADJACENT LANE DROP-OFFS



SHOULDER DROP-OFFS



SECTION B-B

GENERAL NOTES

FOR SPOT LOCATIONS USE ENGINEERING JUDGEMENT WHEN PLACING ADDITIONAL SIGNS.

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

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

* IF THE DROP-OFF IS CONTINUOUS ALONG THE PROJECT, PLACE ADDITIONAL SIGNS EVERY ½ MILE.

(1) USE CLOSER SPACING WHEN DELINEATING DROP-OFF.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- DIRECTION OF TRAFFIC
- WORK AREA WITH DROP-OFF

D	SIGN (C)
< 2" WITH A SLOPE STEEPER THAN 3:1	LOW SHOULDER W08-9
2" < 6" WITH A SLOPE STEEPER THAN 3:1	SHOULDER DROP-OFF W8-9A PROVIDE A 3:1 OR FLATTER SLOPE OF MATERIAL ADJACENT TO THE PAVEMENT

TRAFFIC CONTROL, DROP-OFF SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March, 2017 — DATE
/S/ Andrew Heldtke — WORK ZONE ENGI
FHWA

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S.D.D. 15 D 39-1

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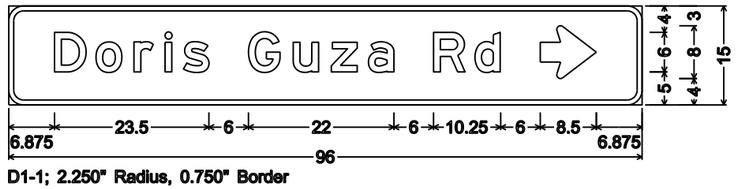
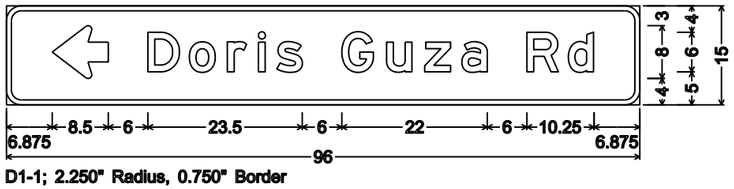
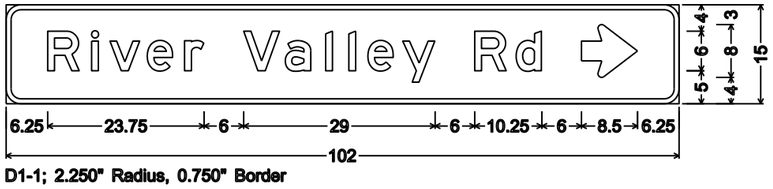
S.D.D. 15 D 39-1



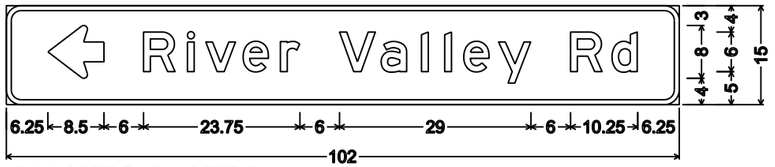
D1-1; 2.250" Radius, 0.750" Border



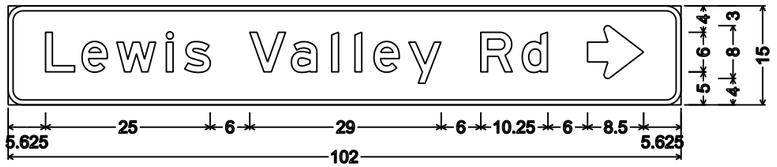
D1-1; 2.250" Radius, 0.750" Border



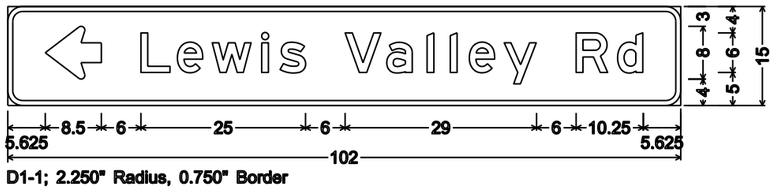
D1-1; 2.250" Radius, 0.750" Border



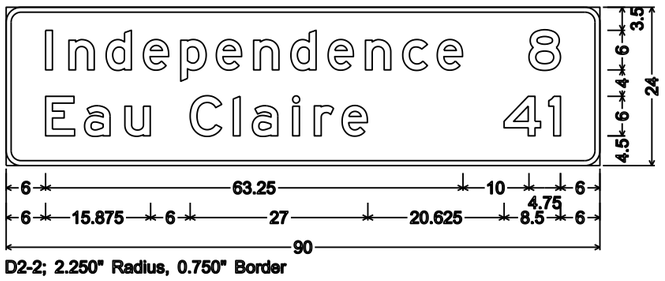
D1-1; 2.250" Radius, 0.750" Border



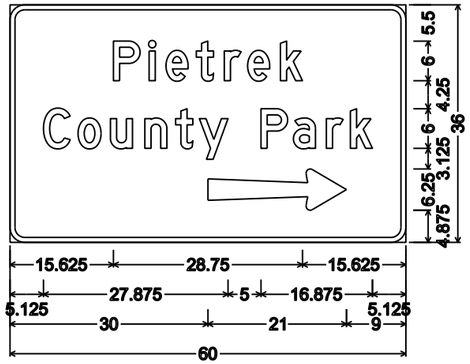
D1-1; 2.250" Radius, 0.750" Border



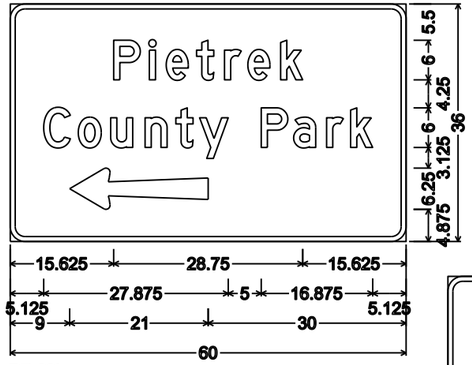
D1-1; 2.250" Radius, 0.750" Border



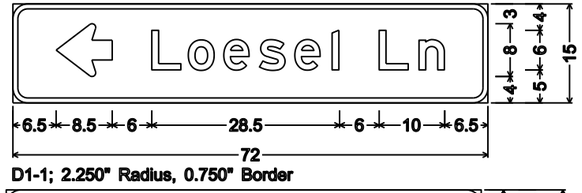
D2-2; 2.250" Radius, 0.750" Border



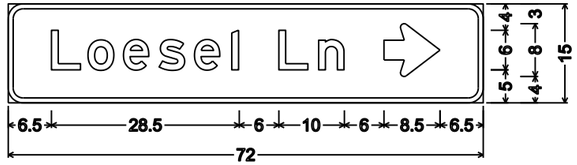
D7-68R;
2.250" Radius, 0.750" Border, White on Brown;
"Pietrek" D; "County" D; "Park" D



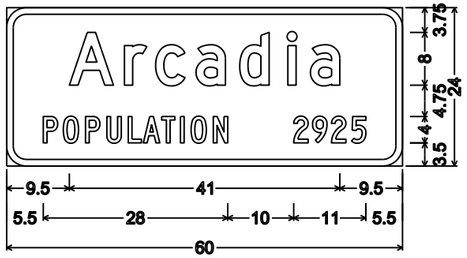
D7-68L;
2.250" Radius, 0.750" Border, White on Brown;
"Pietrek" D; "County" D; "Park" D



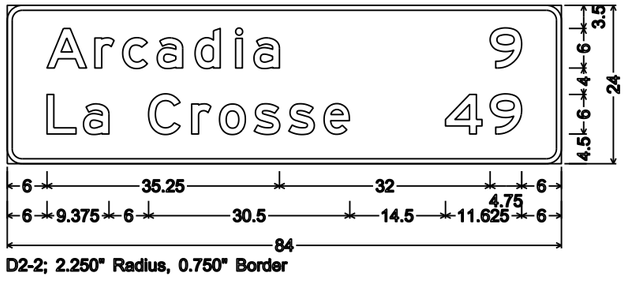
D1-1; 2.250" Radius, 0.750" Border



D1-1; 2.250" Radius, 0.750" Border



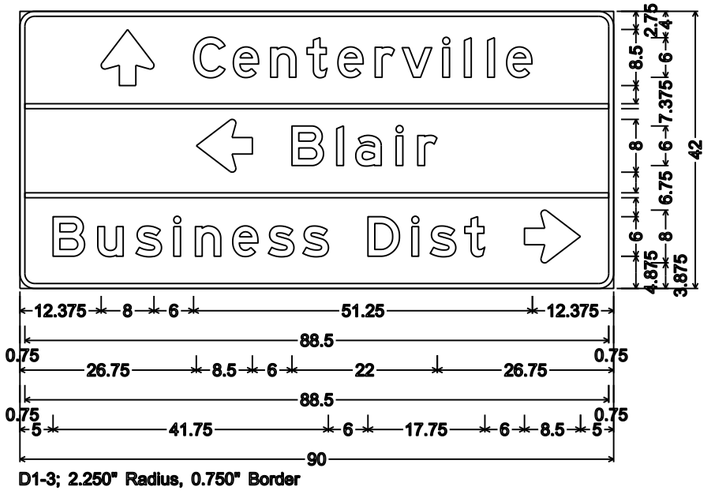
I2-3;
3.000" Radius, 1.000" Border,
"Arcadia" D; "POPULATION" C; "2925" C



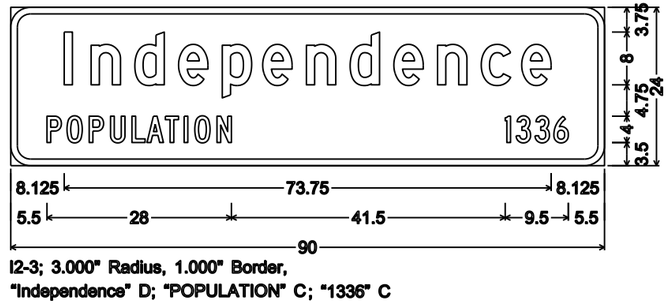
D2-2; 2.250" Radius, 0.750" Border

NOTES

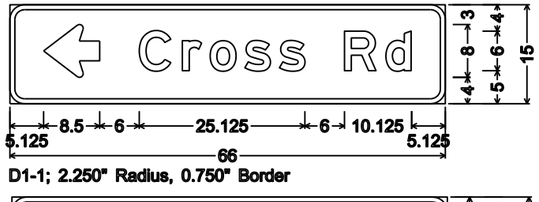
1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green except as noted
   Message - White
3. Message Series - E except as noted



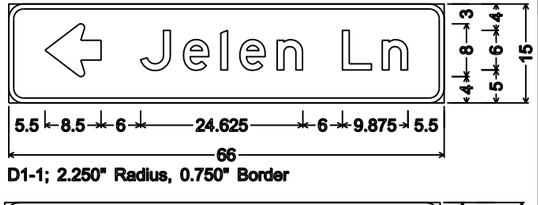
D1-3; 2.250" Radius, 0.750" Border



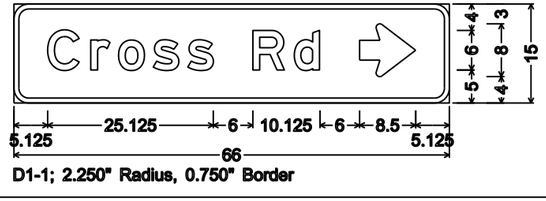
I2-3; 3.000" Radius, 1.000" Border,
"Independence" D; "POPULATION" C; "1336" C



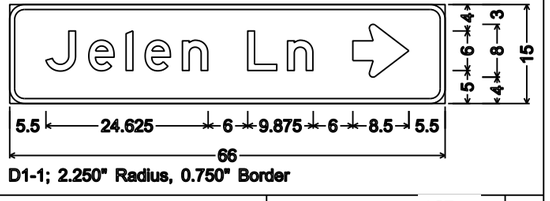
D1-1; 2.250" Radius, 0.750" Border



D1-1; 2.250" Radius, 0.750" Border



D1-1; 2.250" Radius, 0.750" Border

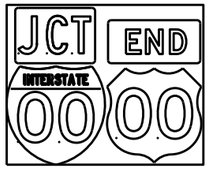


D1-1; 2.250" Radius, 0.750" Border

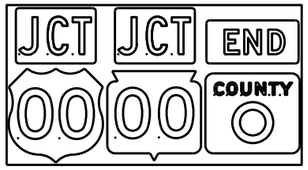
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	PERMANENT SIGNING	SHEET NO: 167	E

TYPICAL ASSEMBLIES

J1-1

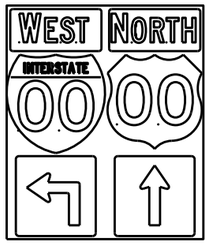


J1-2

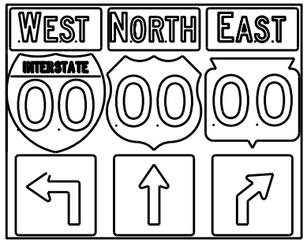


J1-3

J2-1



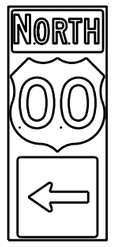
J2-2



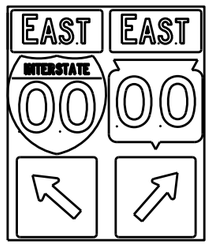
J2-3

JV

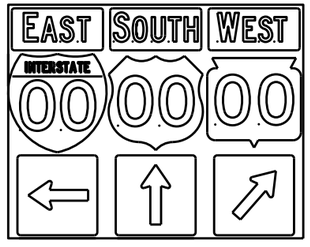
(Typical Vertical J-Assembly
See Note 10 and 11)



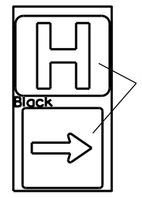
J3-1



J3-2



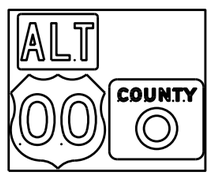
J3-3



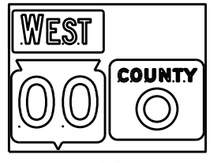
Blue Background

JH-1

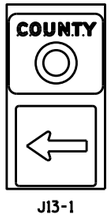
J4-1



J4-2



J4-2



J13-1

J12-1

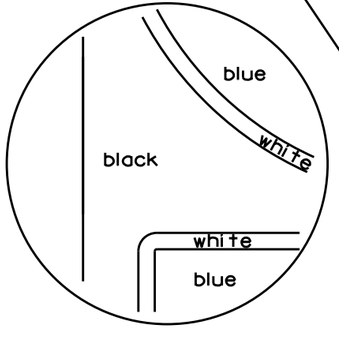
J32-1

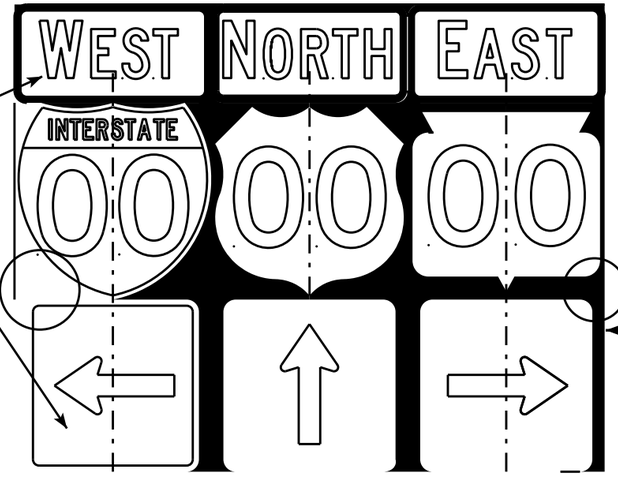
J33-1

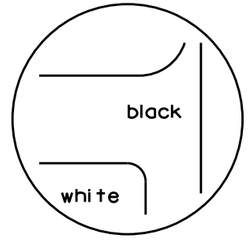
J23-1

J22-1

[blue background with interstate]







[black background]

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. 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.
8. 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.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (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.
10. All Vertical J Assemblies are given a Sign Code of JV
11. 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

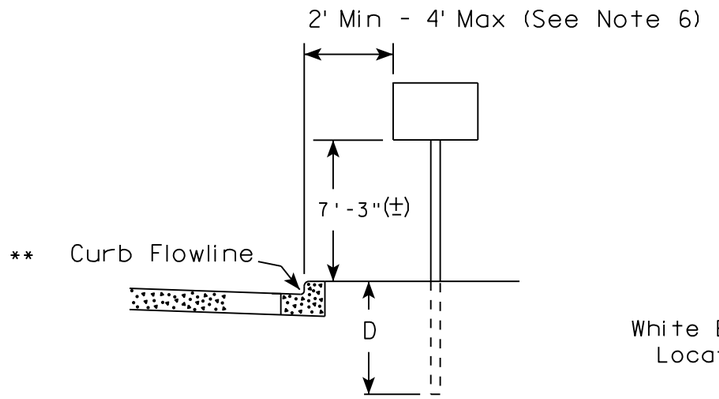
DATE 2/06/14 PL... A2-1S.8

PROJECT NO: SHEET NO: E

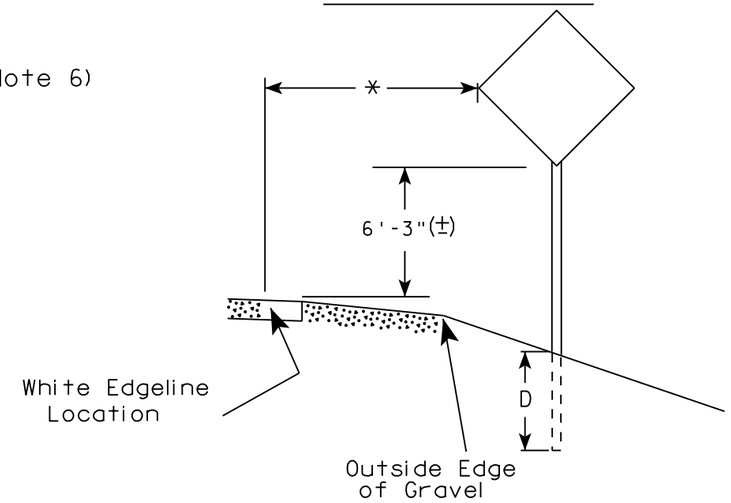
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN PLOT DATE : 06-FEB-2014 14:10 PLOT BY : mscsja PLOT NAME :

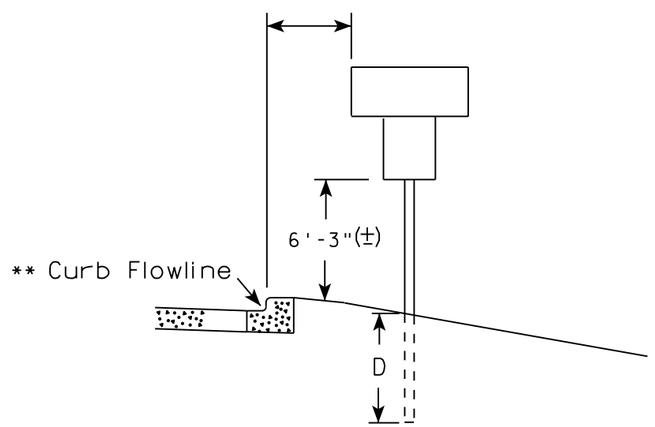
WISDOT/CADDS SHEET 42

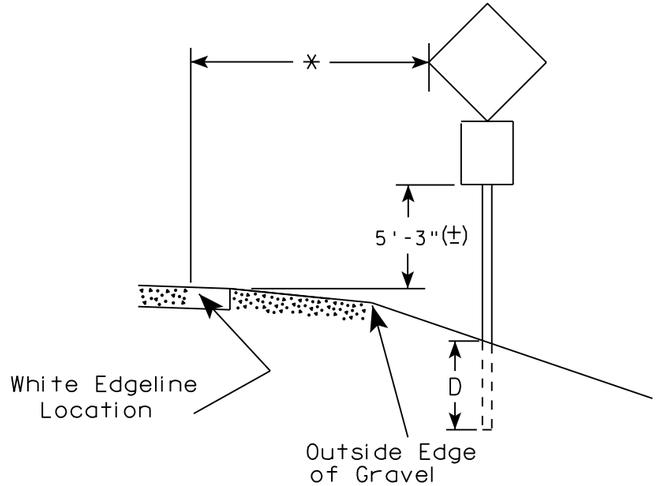
URBAN AREA



RURAL AREA (See Note 2)







** 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.

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 barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. J-Assemblies are considered to be one sign for mounting height.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

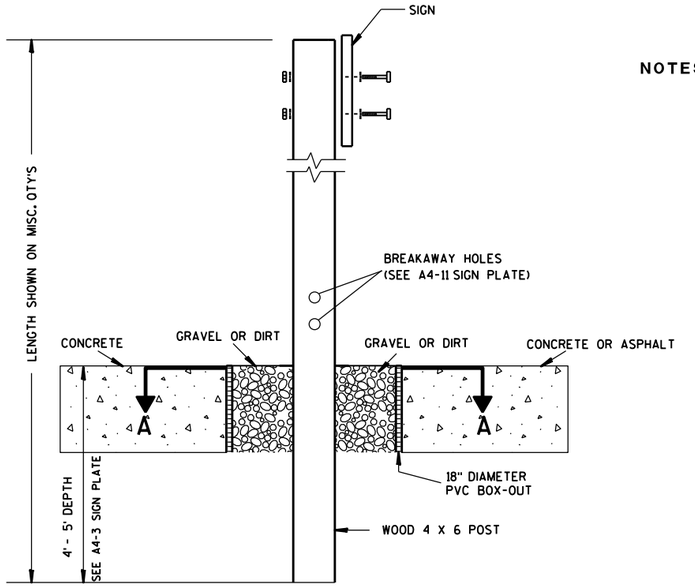
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-3.21

7

7

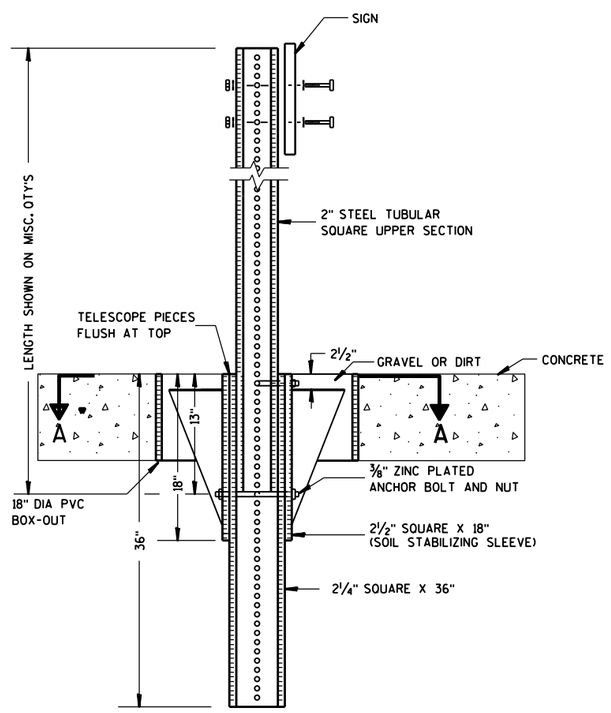
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 169	E



ELEVATION VIEW

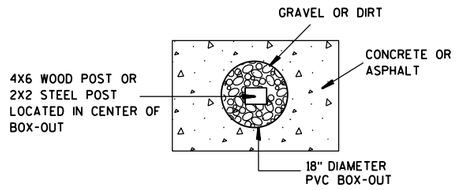
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

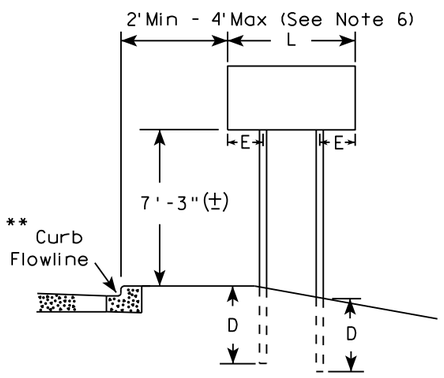
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

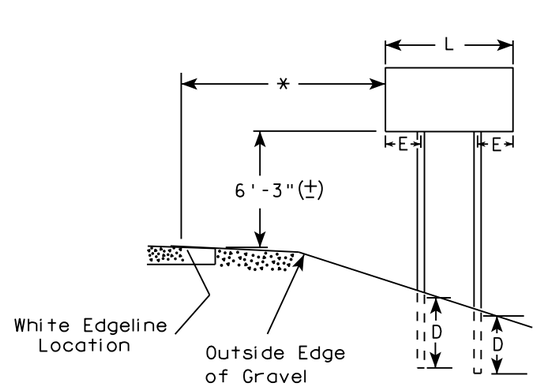
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

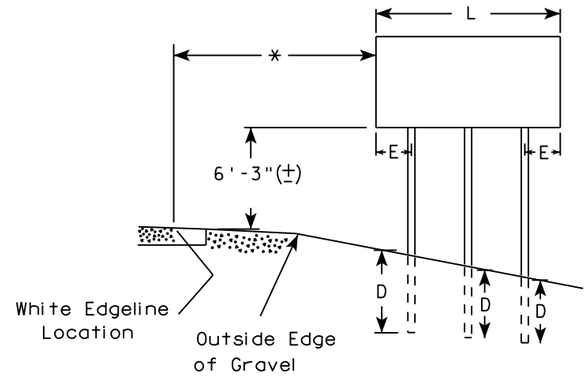
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

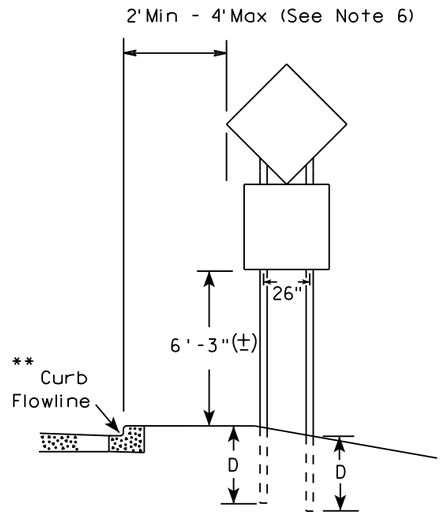
URBAN AREA



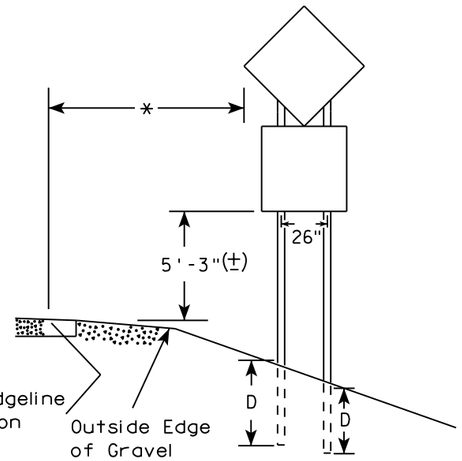
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

***	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"

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" (±).

* 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.

POST EMBEDMENT DEPTH

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

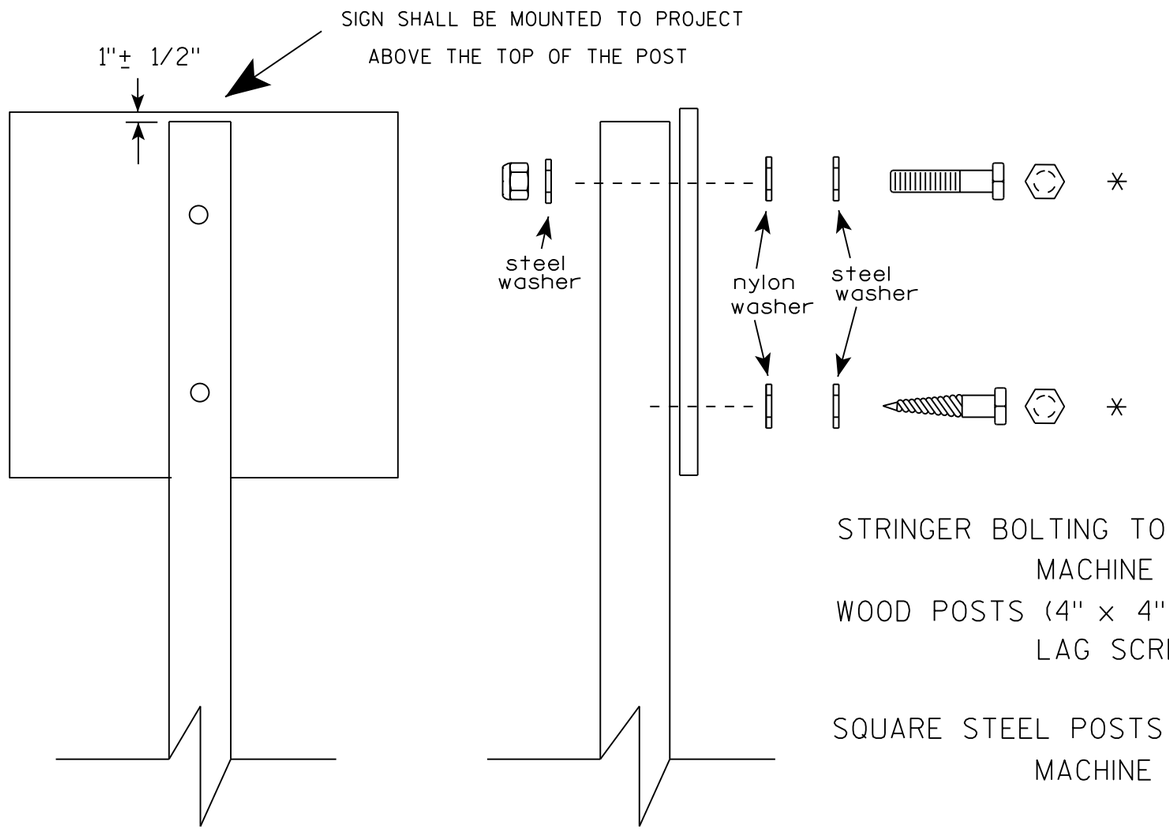
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 171	E



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 4" or 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

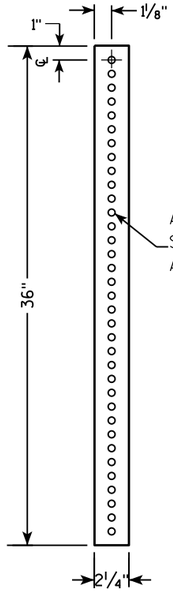
DATE 8/11/16 PLATE NO. A4-8.8

PROJECT NO: SHEET NO: E

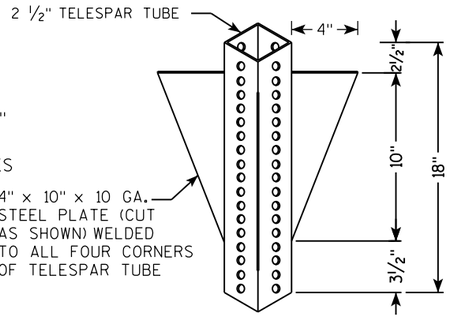
FILE NAME : C:\CADfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

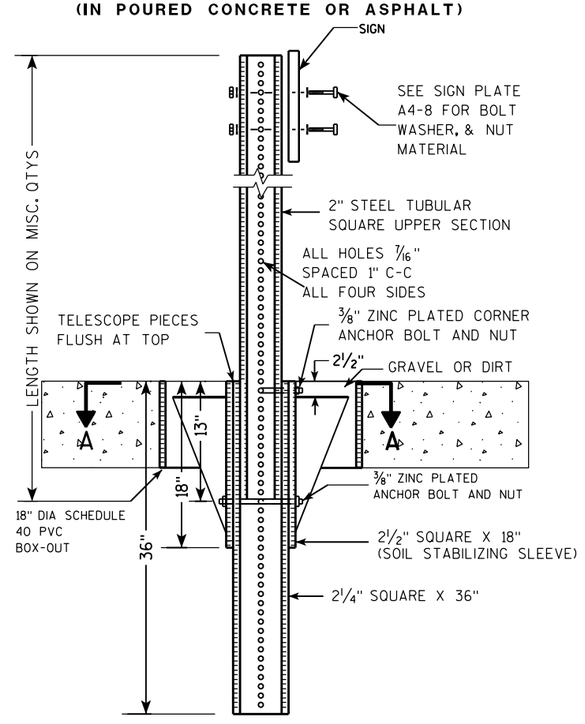
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



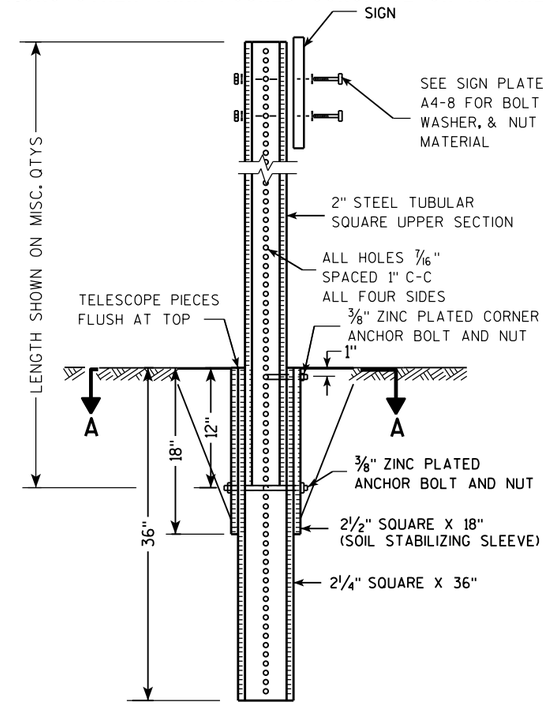
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

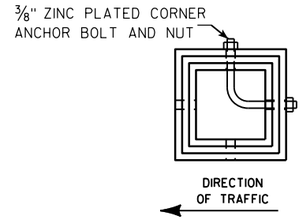


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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





SECTION A-A

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

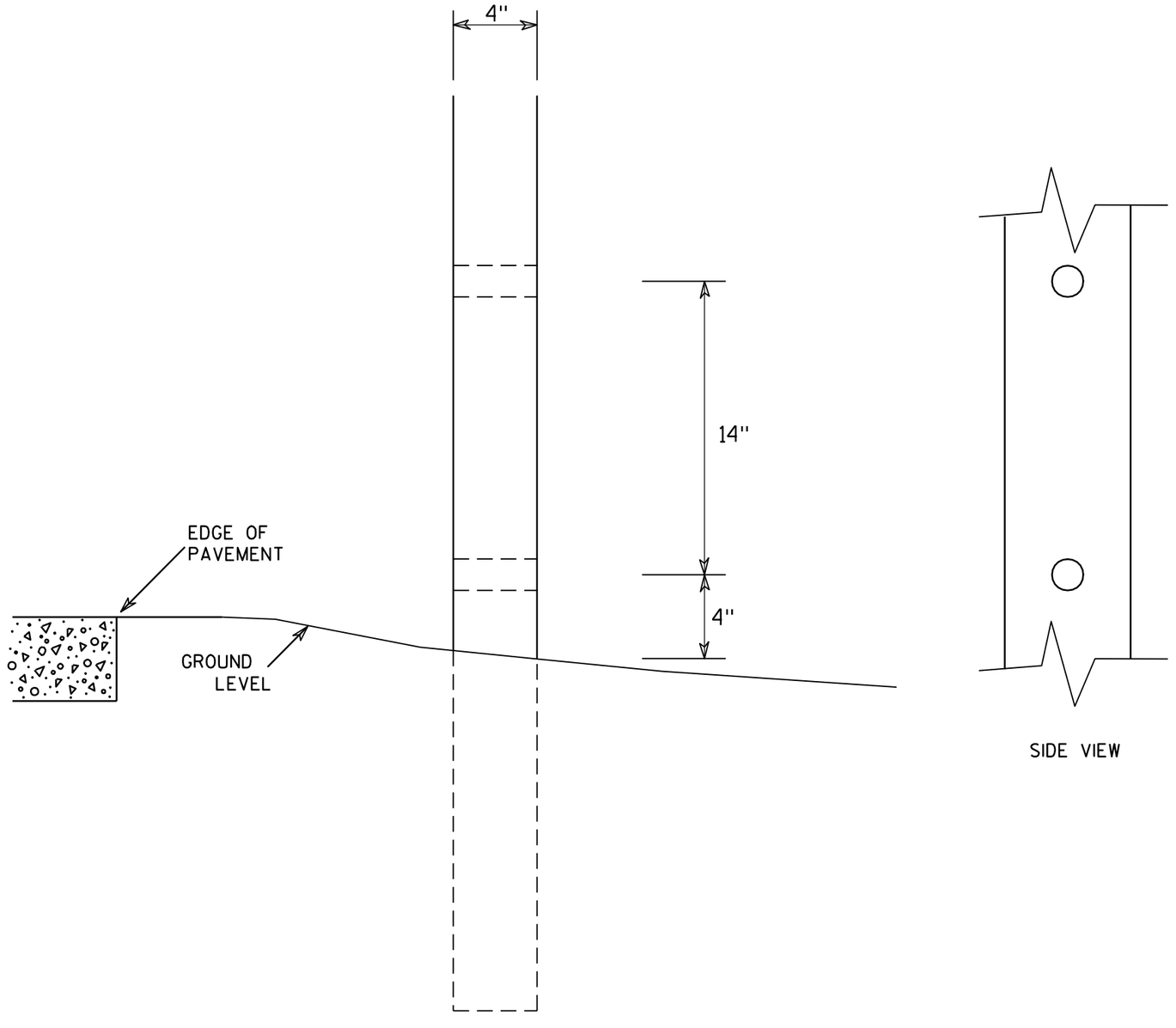
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

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

7

7

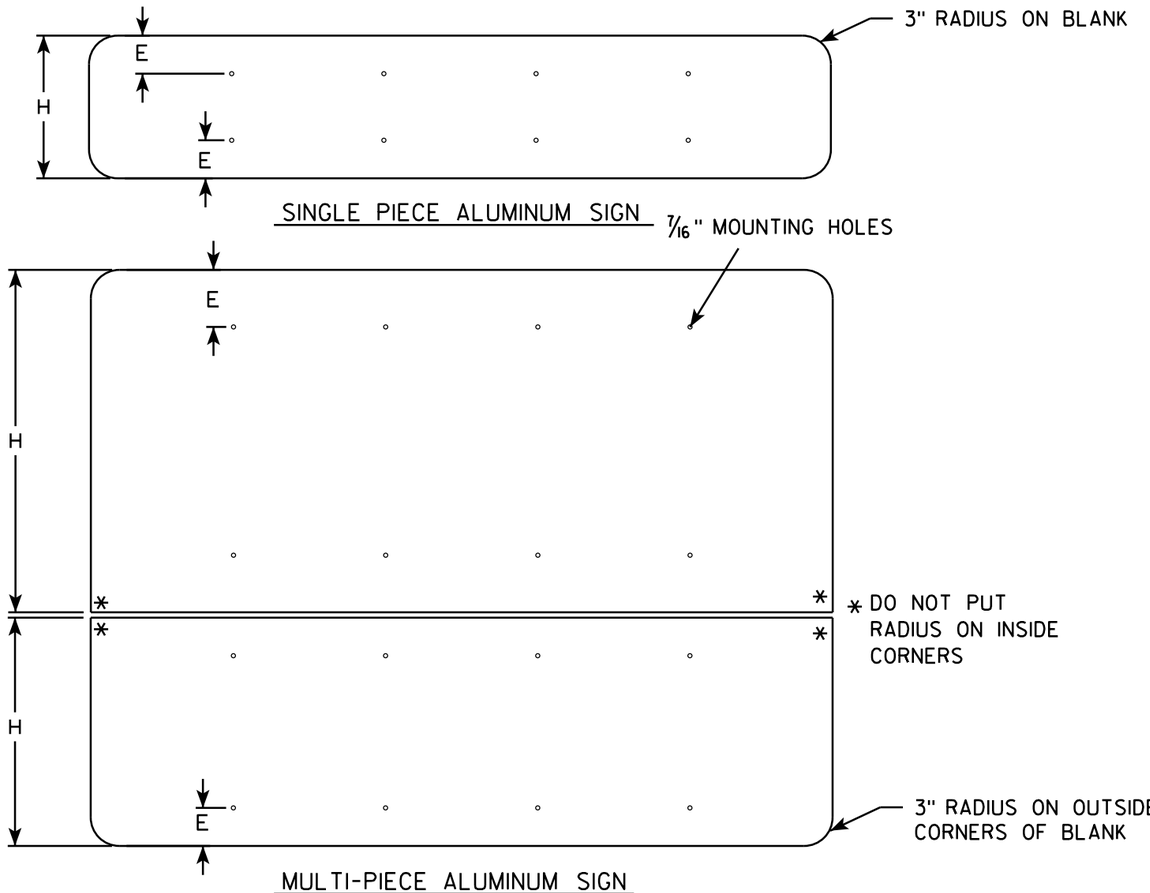
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang
for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

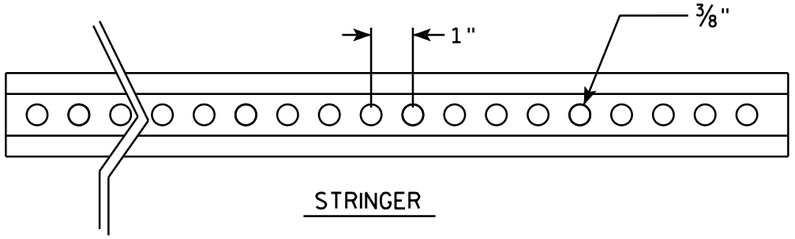
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 174	E



GENERAL NOTES

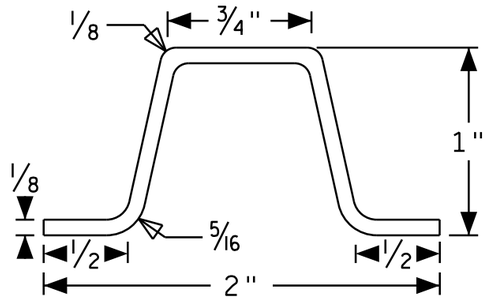
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 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"	16½" 33½" 50½" 67½"
90"	72"	2	18"	18" 36" 54" 72"
96"	90"	2	19"	19½" 38½" 57½" 76½"
102"	90"	2	20"	21" 41" 61" 81"
108"	90"	2	21"	22½" 43½" 64½" 85½"
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"

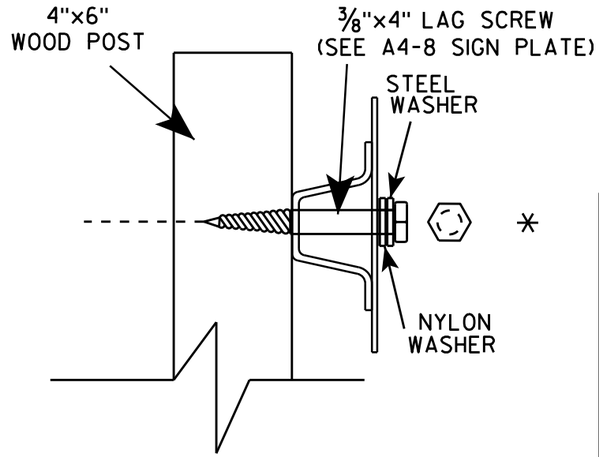


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



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

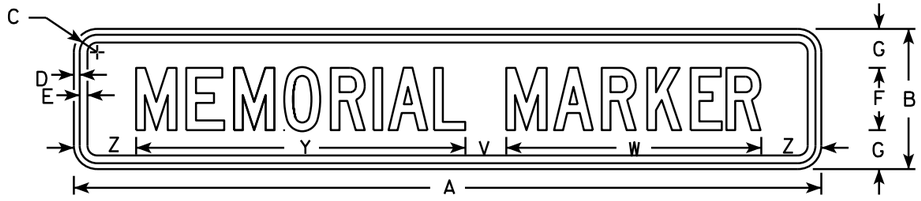
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A418.dgn PLOT DATE : 27-APR-2016 13:56 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 41.805205:1.000000 WISDOT/CADDS SHEET 42

DB5-69B
DG5-69B
DN5-69B

DB5-69E

DB5-69G
DG5-69G
DN5-69G



DB5-69F

NOTES

1. Signs are Type II - Type H Reflective
2. Color:
   Background - See Note 4
   Message - White - Type H Reflective
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. DB5-69B, DB5-69E, DB5-69F, DB5-69G — Background BLUE
   DG5-69B, DG5-69G — Background GREEN
   DN5-69B, DN5-69G — Background BROWN
5. Message Series - All signs are Series D except for DB5-69E & DB5-69F which are Series C.

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	48	9	1 1/8	3/8	1/2	4	2 1/2	12	24	5 3/4	12 1/4	2 3/4	22	5 1/4	3			4 1/2	19 1/2	4 1/4	23 1/4	2 5/8	16 3/8	2 7/8	21	2	3.0
2	48	9	1 1/8	3/8	1/2	4	2 1/2	12	24	5 3/4	12 1/4	2 3/4	22	5 1/4	3			4 1/2	19 1/2	4 1/4	23 1/4	2 5/8	16 3/8	2 7/8	21	2	3.0
3																											
4																											
5																											

STANDARD SIGN
DB5-69 & DG5-69
& DN5-69 Series

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/04 PLATE DB5-69.5

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

7

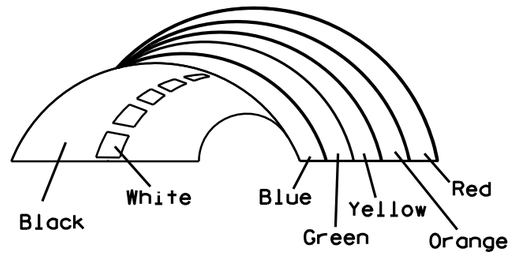
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\DB569.DGN PLOT DATE : 23-JUN-2014 09:42 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 9.729210:1.000000 WISDOT/CADDS SHEET 42

* VARIES

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 - (See Note 5)
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. Border - Blue
   Line 1 - Red
   Line 2 - Black
   Line 3-5 - Blue
6. Line 1 - Dutch 8011L
   Line 2 - Series E
   Line 3-5 - Series C
7. Contractor shall provide and install a new post bracket in accordance with the I55-56B sign detail.

Background Colors of Symbol*



*1/4" Black Border between each color of rainbow and border of rainbow

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	36	1 1/2	1/2	5/8	3	2	3 1/2	2 7/8	1	8	2 1/8	11 1/4	11 1/8	9 3/8	1 1/4		3/4	12 5/8	7 1/2							7.5
3																											
4																											
5																											

STANDARD SIGN
I55-56

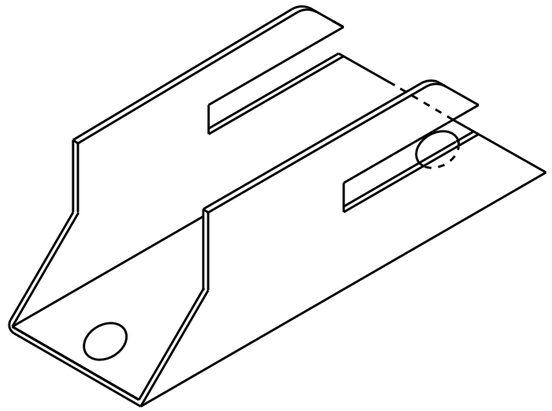
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

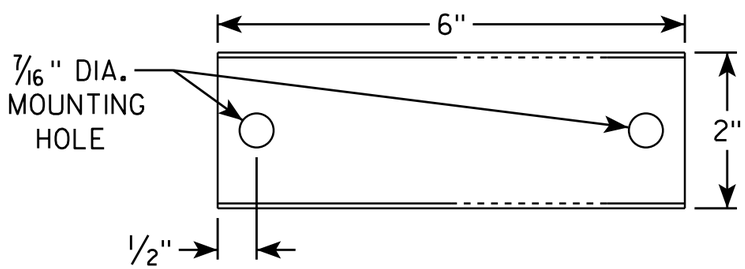
DATE 4/27/11 PLATE NO. 155-56.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 177

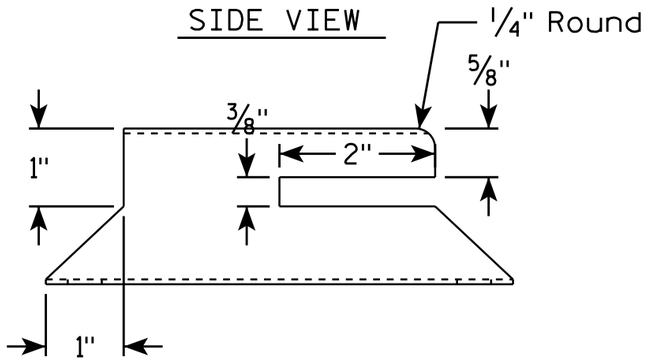
ISOMETRIC VIEW



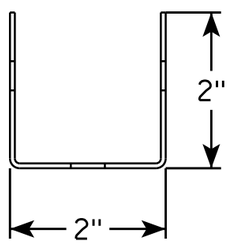
TOP VIEW



SIDE VIEW



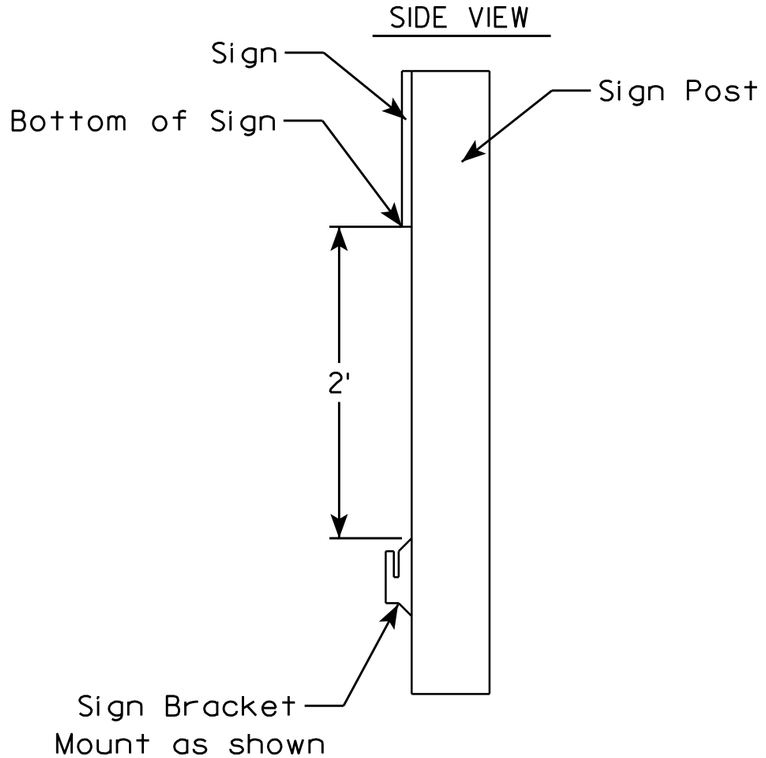
END VIEW



NOTES

1. Must be capable of permanent attachment to a wood or steel channel sign post utilizing the fastening hardware specified on the A4-8 sign plate.
2. Shall be entirely primed and painted with two coats of a black powder coated enamel paint.
3. Shall be made with 12 gauge steel, and incorporate no welds, no hinged components, no threaded lock-type components, and no parts which are loose or can be separated from the main body.
4. Shall have rounded edges with at least 1/8" radii.
5. Shall not have unrounded and uncoated metal edges which can contact the back surface of the roll-up sign.
6. Top of bracket shall be mounted 2' below the bottom of the I55-56 sign.
7. Cost of bracket and fastening hardware shall be incidental to the I55-56 sign.

SIDE VIEW



ROLLUP SIGN BRACKET
I55-56B

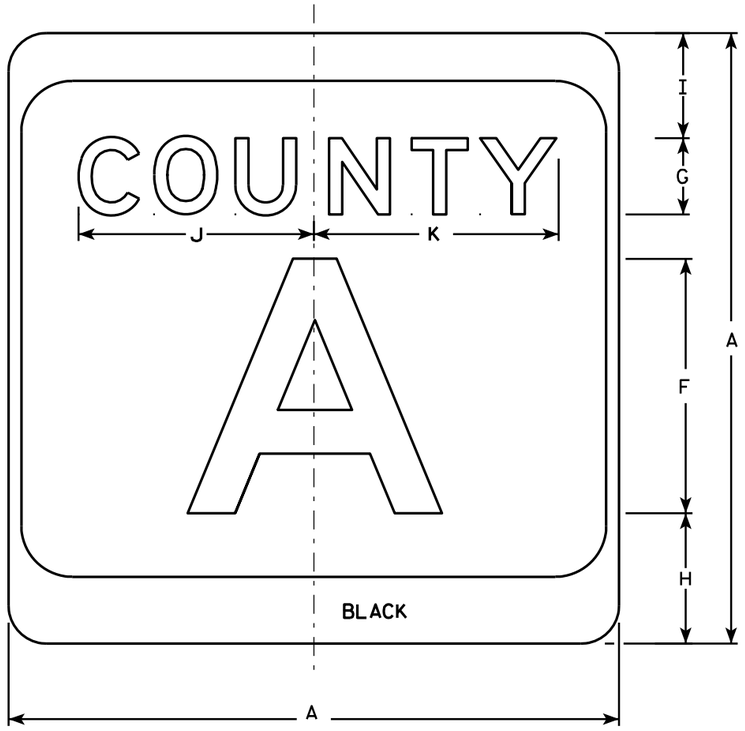
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

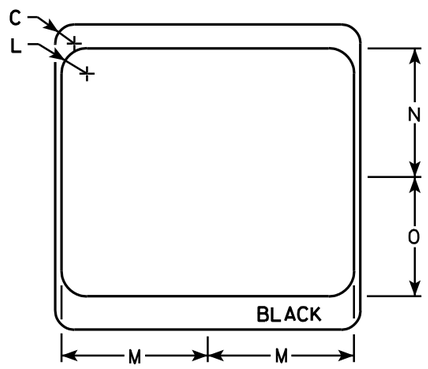
DATE 4/26/16 PLATE I55-56B.2

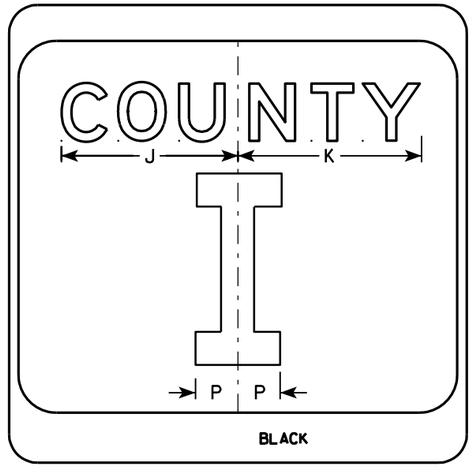
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

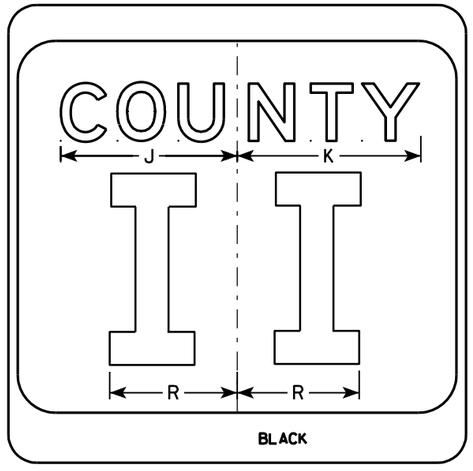
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\I5556B.DGN PLOT DATE : 26-APR-2016 17:29 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 1.945842:1.000000
WISDOT/CADDS SHEET 42



M1-5A







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

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

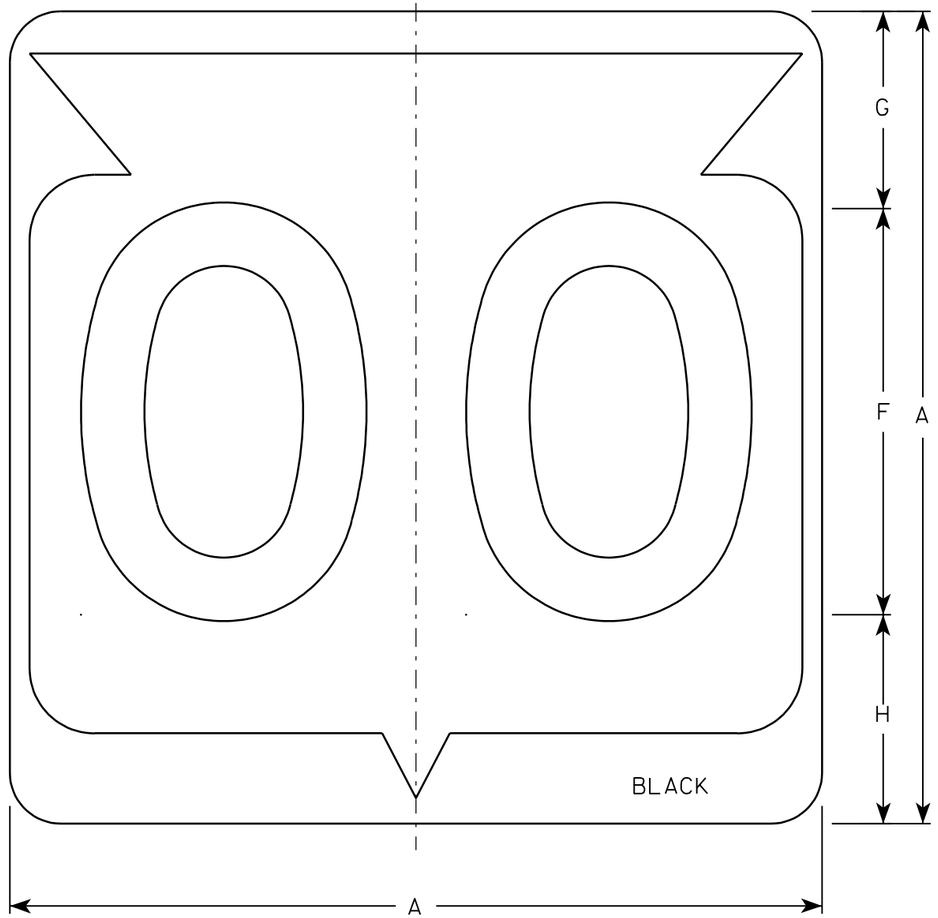
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

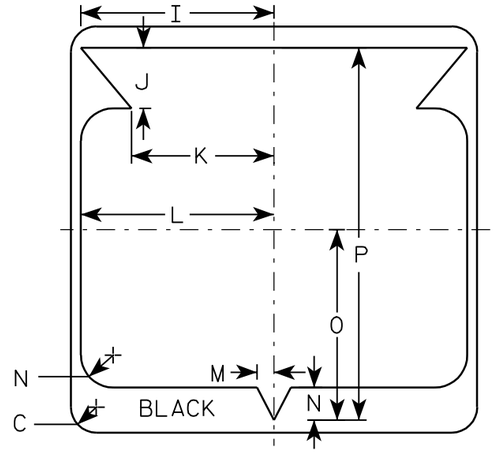
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 179 | E



M1-6

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 6
   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. Substitute appropriate Series numerals and adjust spacing as per plate A10-1.
6. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective



Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 mm

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.	Area m2
1																												
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0	.36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81

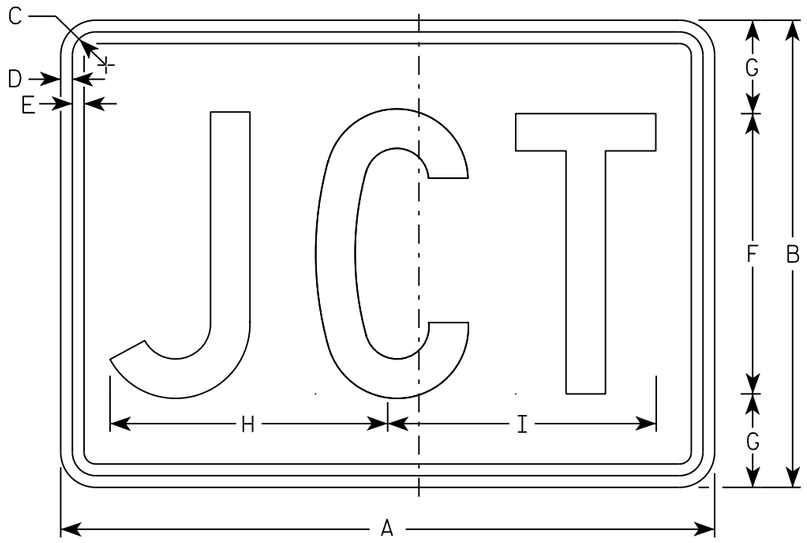
STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

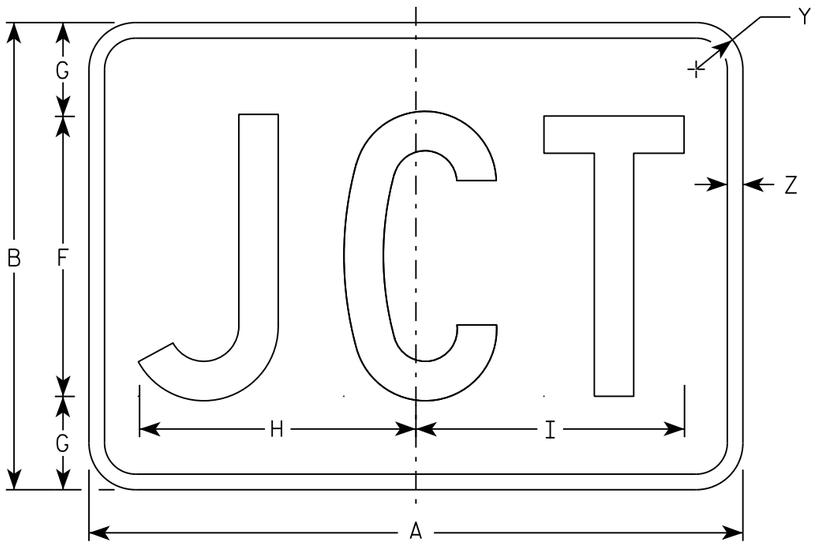
APPROVED Chester J Spang for State Traffic Engineer

DATE 3/20/02 PLATE NO. M1-6.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 180	E



M2-1
MM2-1
MP2-1



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

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	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

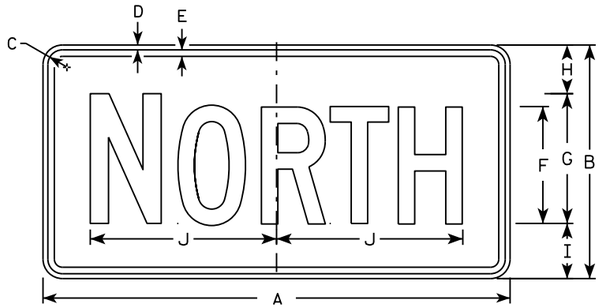
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

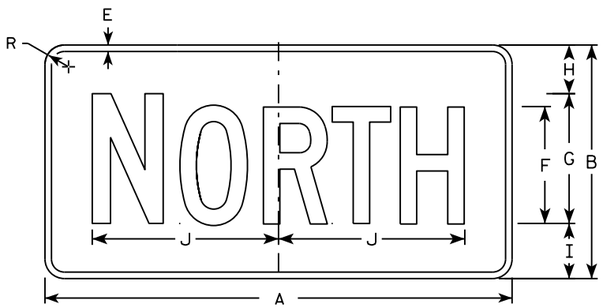
DATE 10/15/15 PLATE 181 12-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M21.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.864603:1.000000



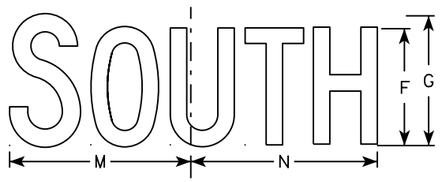
M3-1
MM3-1
MP3-1



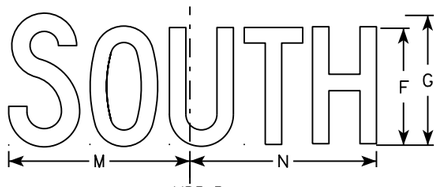
MB3-1
MK3-1
MN3-1

M3-2
MM3-2
MP3-2

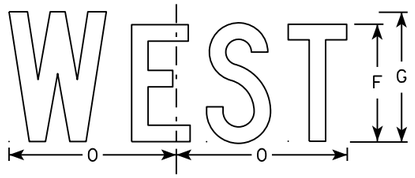
MB3-2
MK3-2
MN3-2



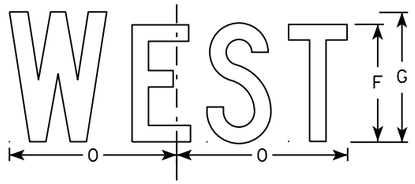
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs 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. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

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	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

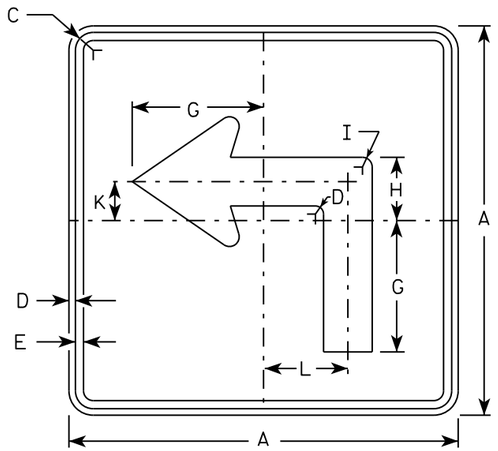
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

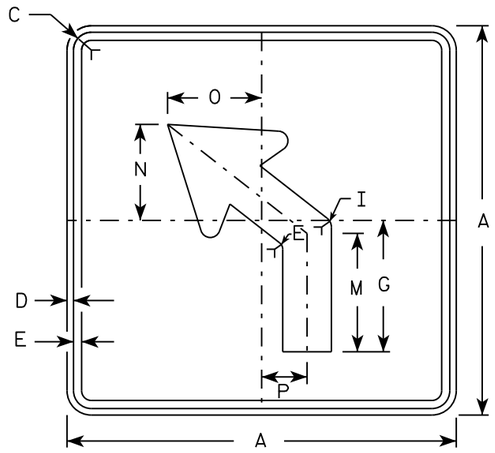
DATE 10/15/15 PLATE NO M3-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

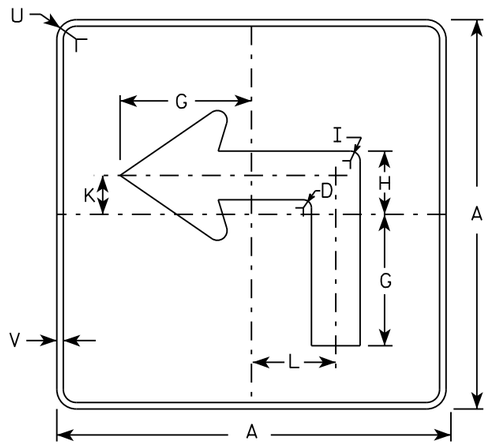
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



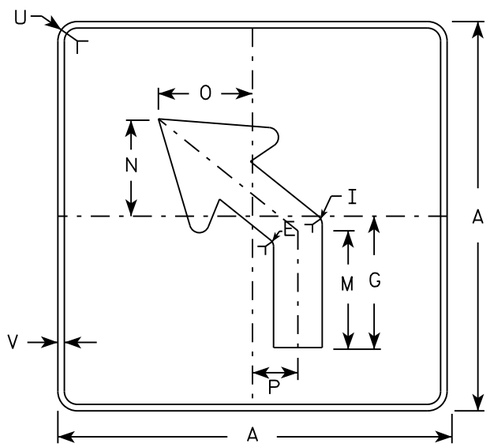
M5-1L
MM5-1L
MO5-1L
MP5-1L



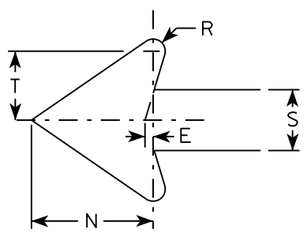
M5-2L
MM5-2L
MO5-2L
MP5-2L



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



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



NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
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. 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
   MO5-1 and MO5-2 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
5. M5-1R same as M5-1L except arrow points right.
6. 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

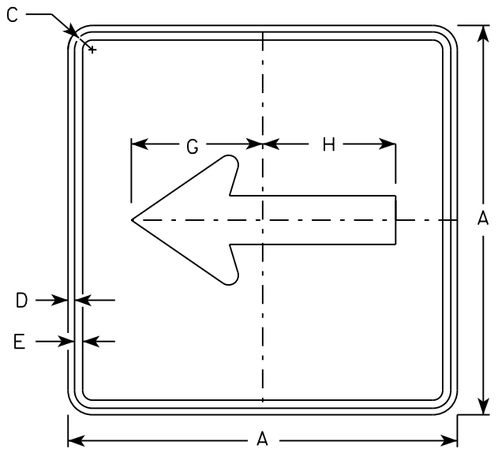
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

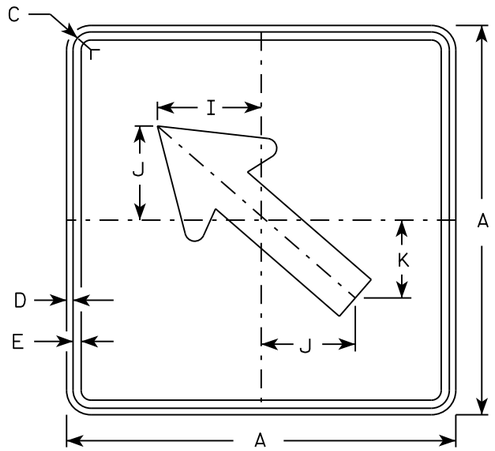
DATE 10/15/15 PLATE NO. M5-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



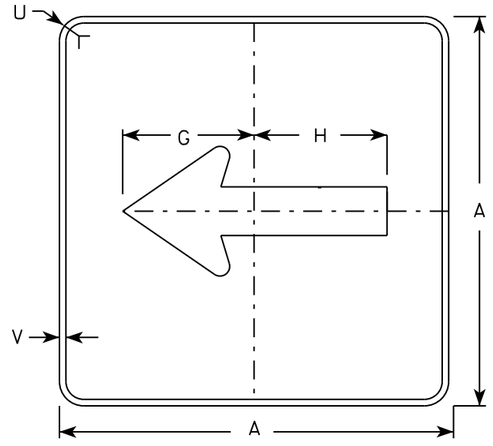
M6-1
MM6-1
MO6-1
MP6-1



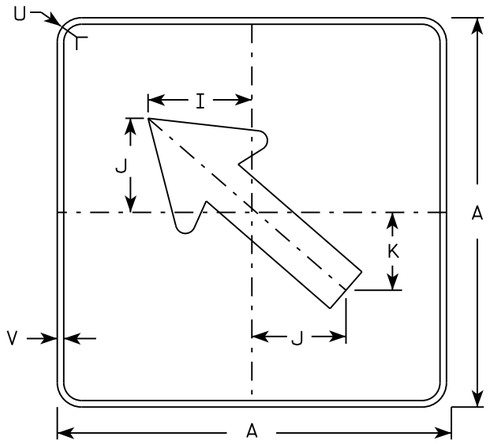
M6-2
MM6-2
MO6-2
MP6-2

NOTES

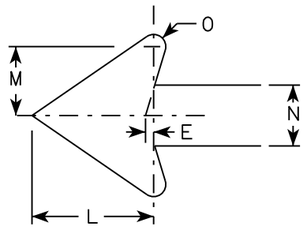
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - 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
   MO6-1 and MO6-2 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



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



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



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

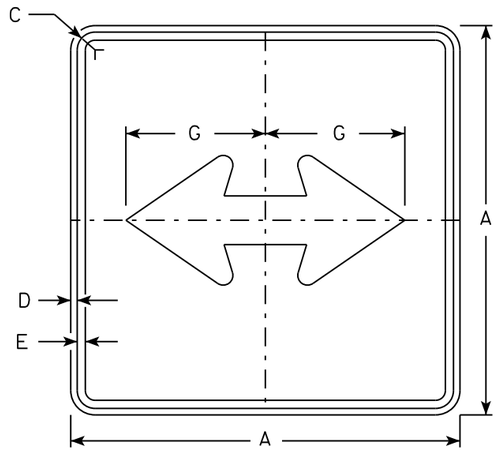
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

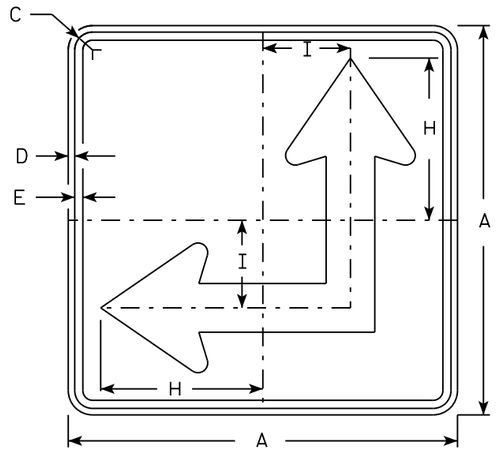
DATE 10/15/15 PLATE 184 M6-1.15

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



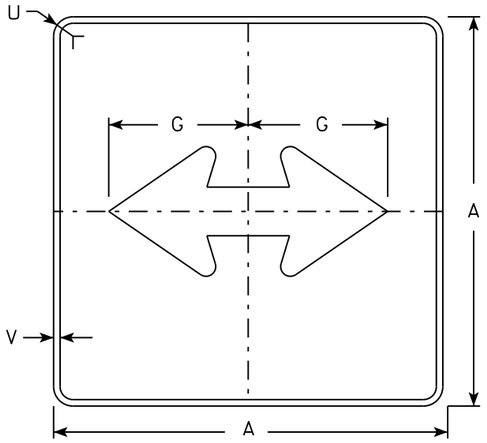
M6-4
MM6-4
MO6-4
MP6-4



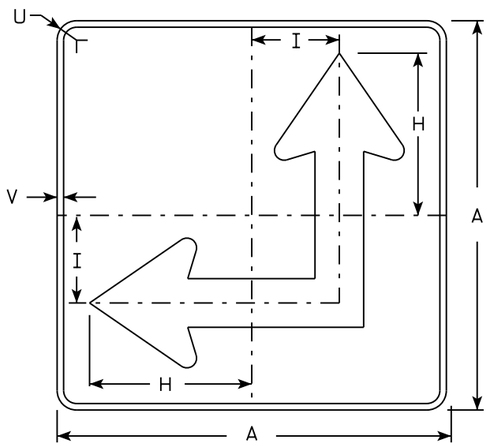
M6-6
MM6-6
MO6-6
MP6-6

NOTES

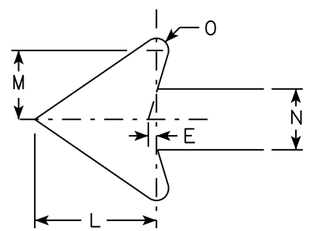
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background - 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
   MO6-4 and MO6-6 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
5. M6-6R same as M6-6L except arrow points ahead and right.



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



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



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

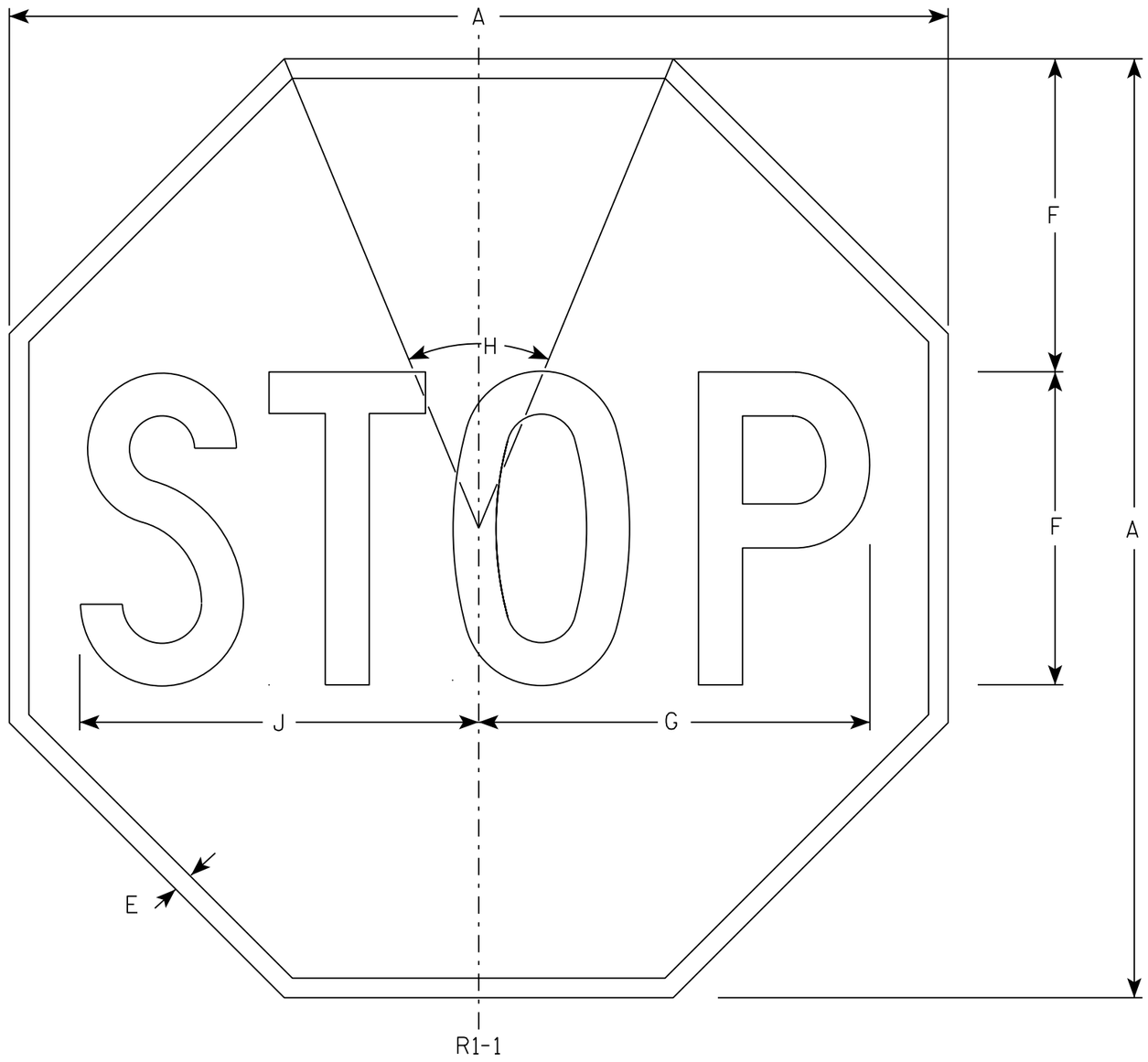
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 10/15/15 PLATE 185 M6-4.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M64.DGN PLOT DATE : 01-DEC-2015 17:58 PLOT BY : $$ platuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



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

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

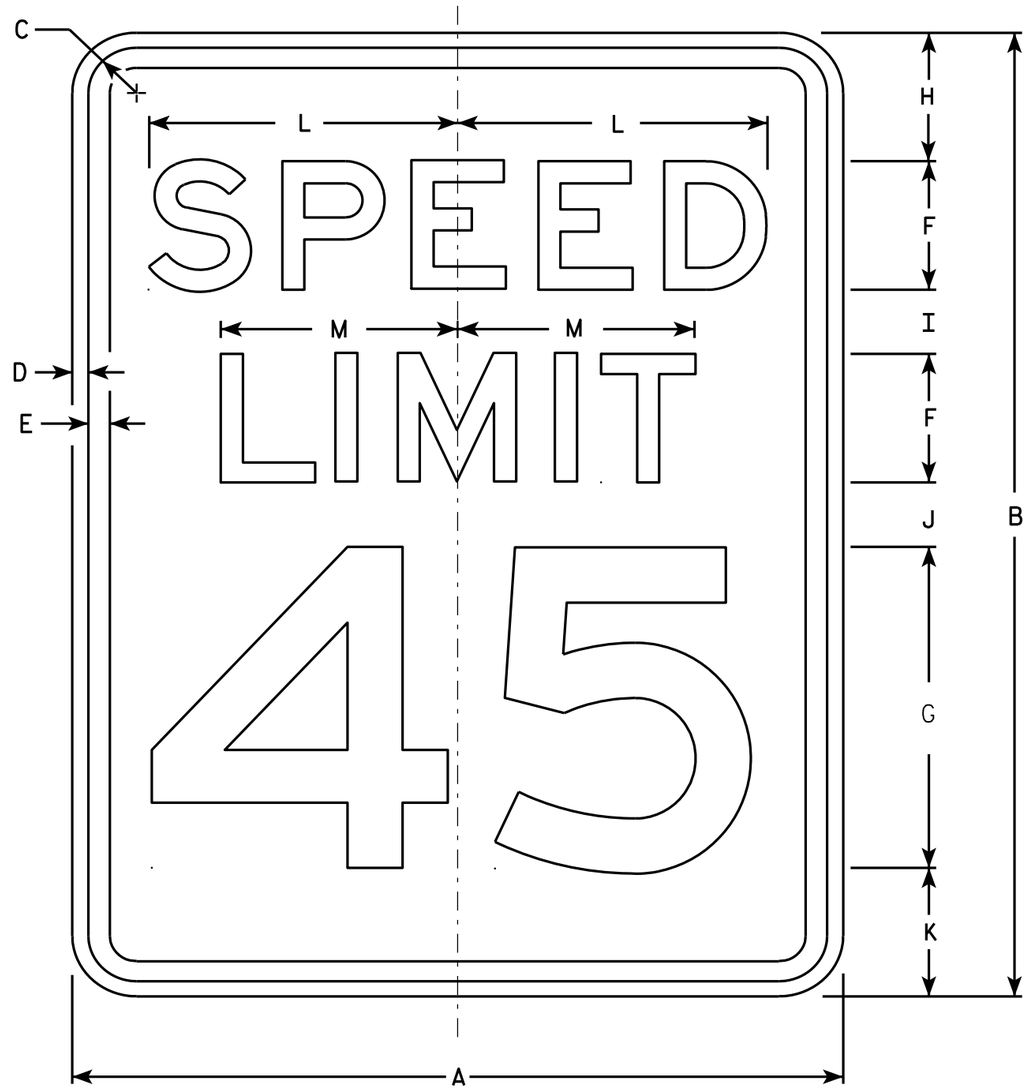
STANDARD SIGN
R1-1

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: 186	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.

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

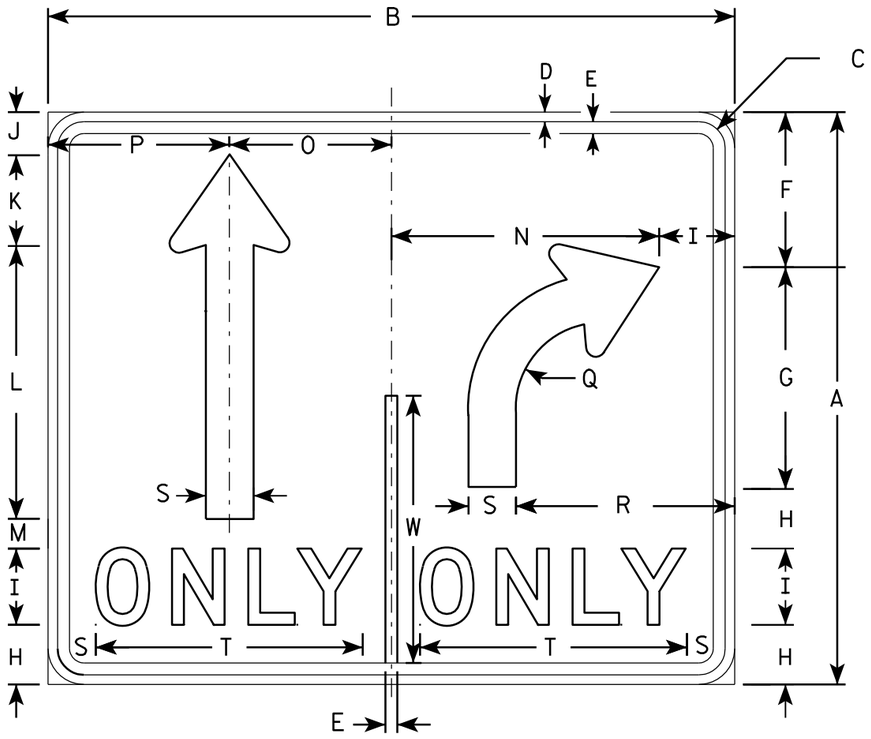
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

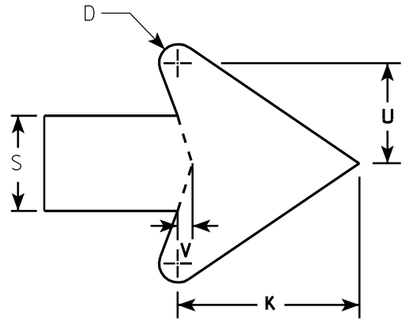
APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 187	E



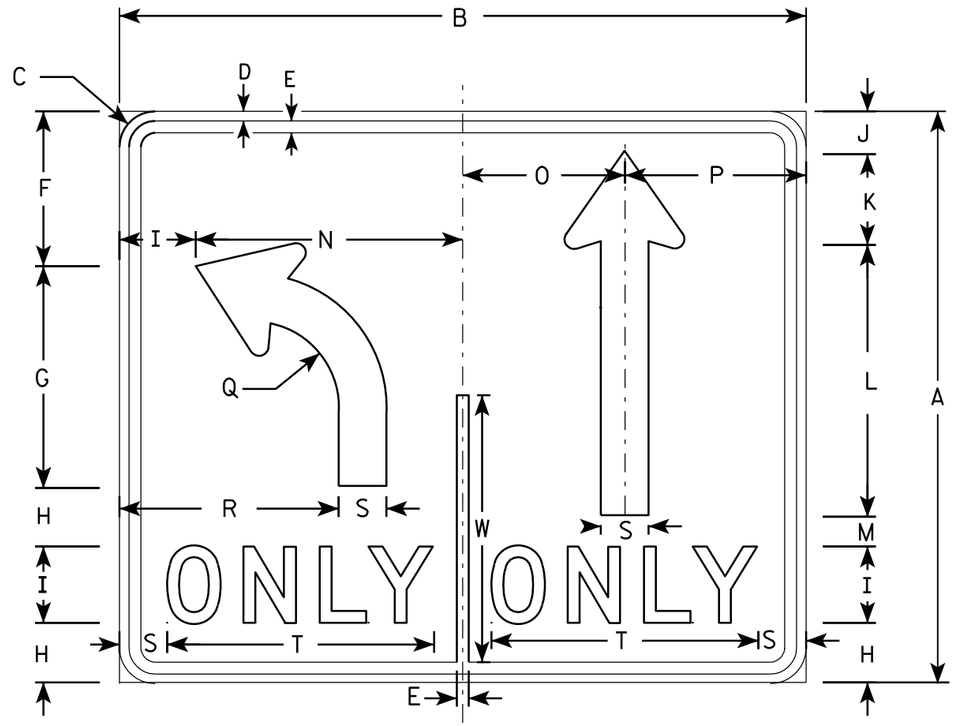
R3-8D



ARROW DETAIL

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 - 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.



R3-8E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	2 1/4	4 3/4	14 1/4	1 5/8	14	8 1/2	9 1/2	4 1/2	11 1/2	2 1/2	14	2 5/8	3/8	14				7.5
2M	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	2 1/4	4 3/4	14 1/4	1 5/8	14	8 1/2	9 1/2	4 1/2	11 1/2	2 1/2	14	2 5/8	3/8	14				7.5
3																											
4	48	54	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	3 1/2	7 1/8	21 1/2	4 3/4	21	12 3/4	14 1/4	7 1/4	17 1/8	3 3/4	20 5/8	4	5/8	22 3/8				18.0
5	48	54	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	3 1/2	7 1/8	21 1/2	4 3/4	21	12 3/4	14 1/4	7 1/4	17 1/8	3 3/4	20 5/8	4	5/8	22 3/8				18.0

STANDARD SIGN
R3-8D & R3-8E

WISCONSIN DEPT OF TRANSPORTATION

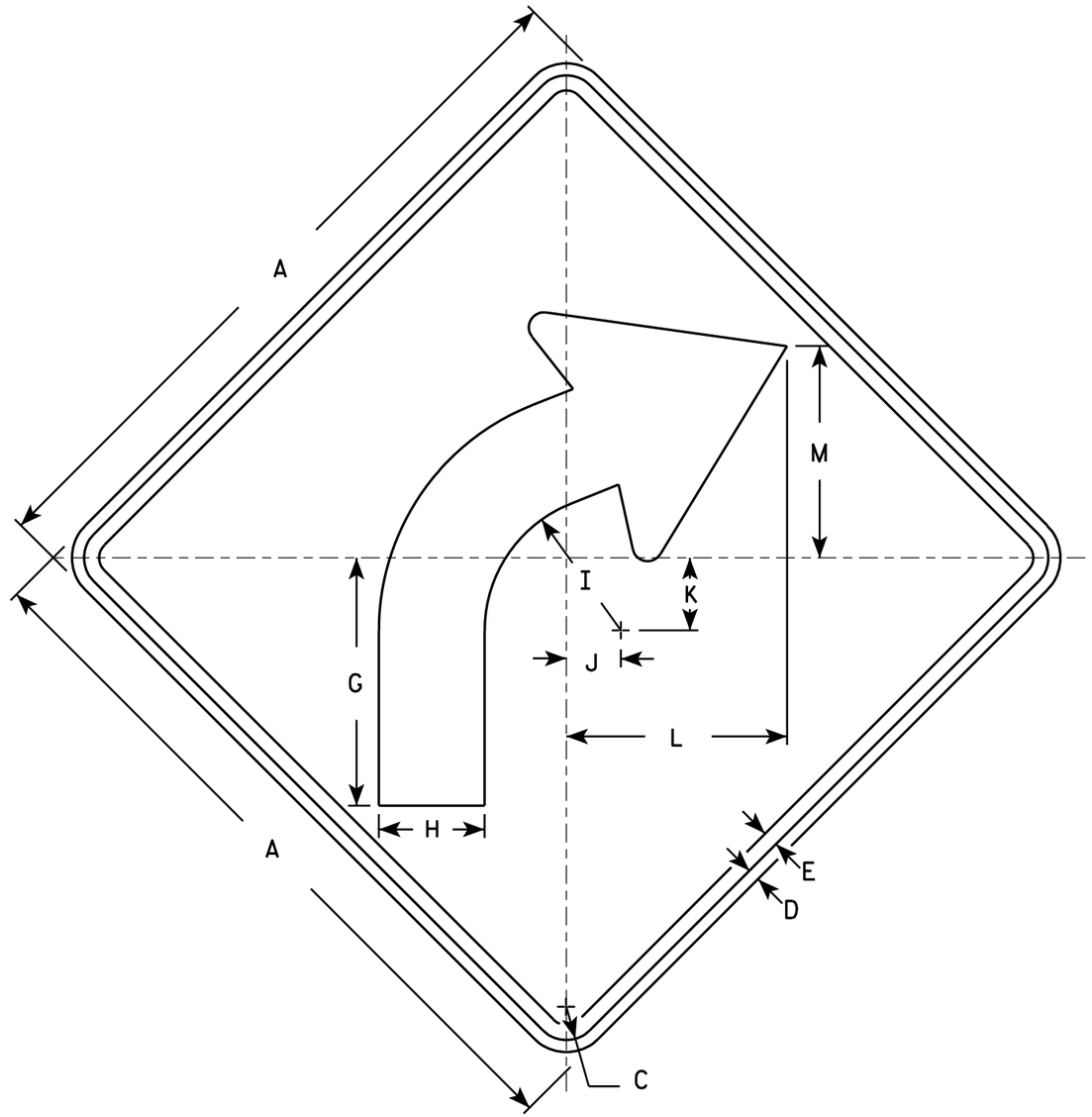
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-8D.2

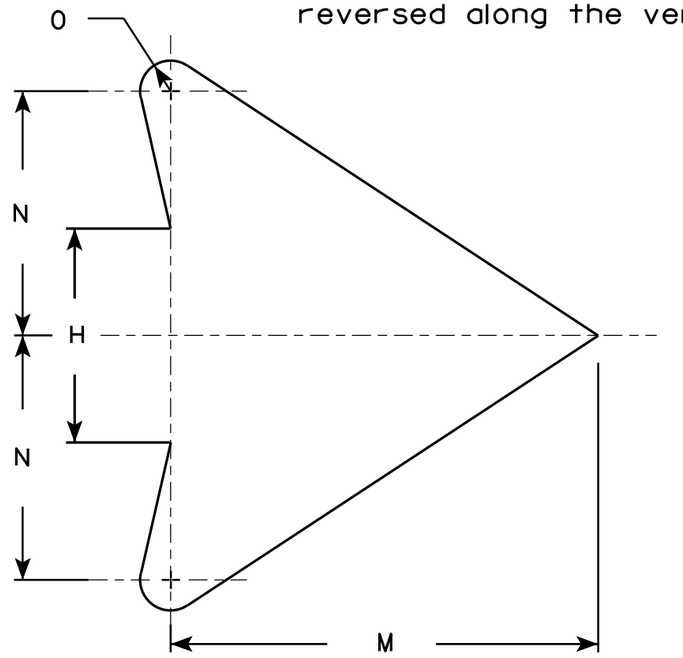
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 188	E

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.
4. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



W1-2R



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	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

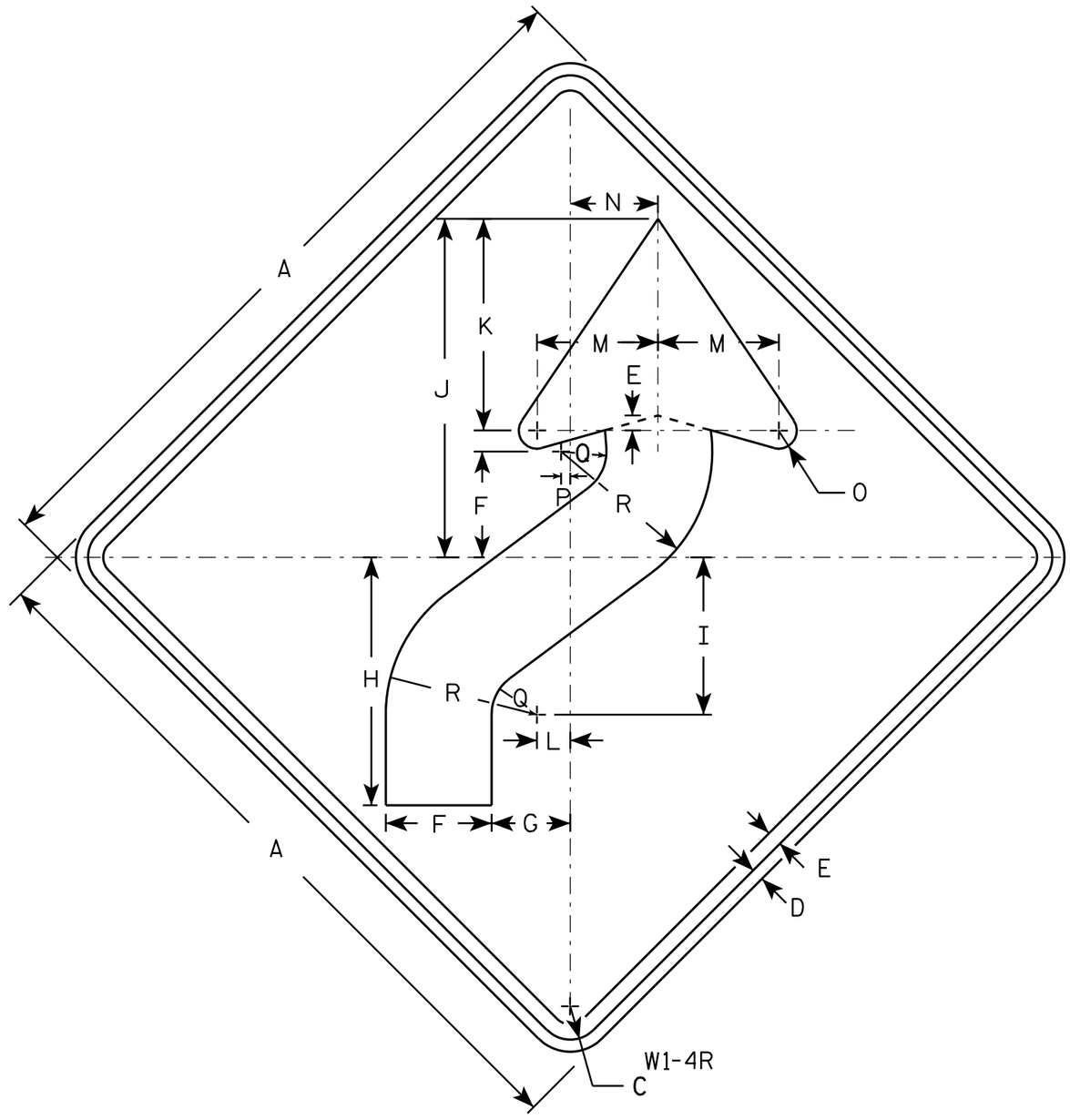
STANDARD SIGN
W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 189	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.
4. W1-4L is the same as W1-4R except the arrow is reversed along the vertical centerline.

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	3 1/2	2 5/8	8 1/4	5 1/4	11 1/4	7	1 1/8	4	3	5/8	1/4	1 1/2	5									4.0
2S	30		1 3/8	1/2	5/8	4 3/8	3 1/4	10 1/4	6 1/2	14	8 3/4	1 3/8	5	3 5/8	3/4	3/8	1 7/8	6 1/4									6.25
2M	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
3	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
4	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
5	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

STANDARD SIGN

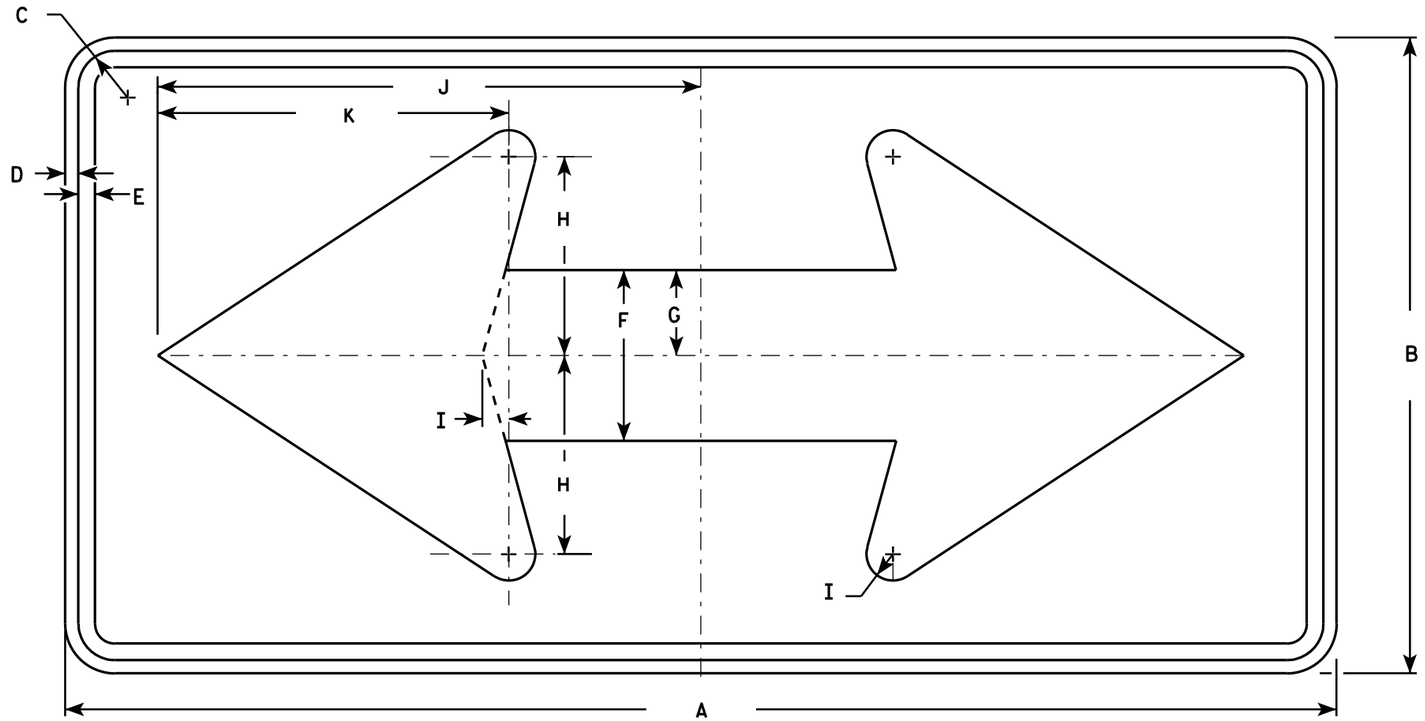
W1-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 5/17/12 PLATE NO. W1-4.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 190 | E



W1-7

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.

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

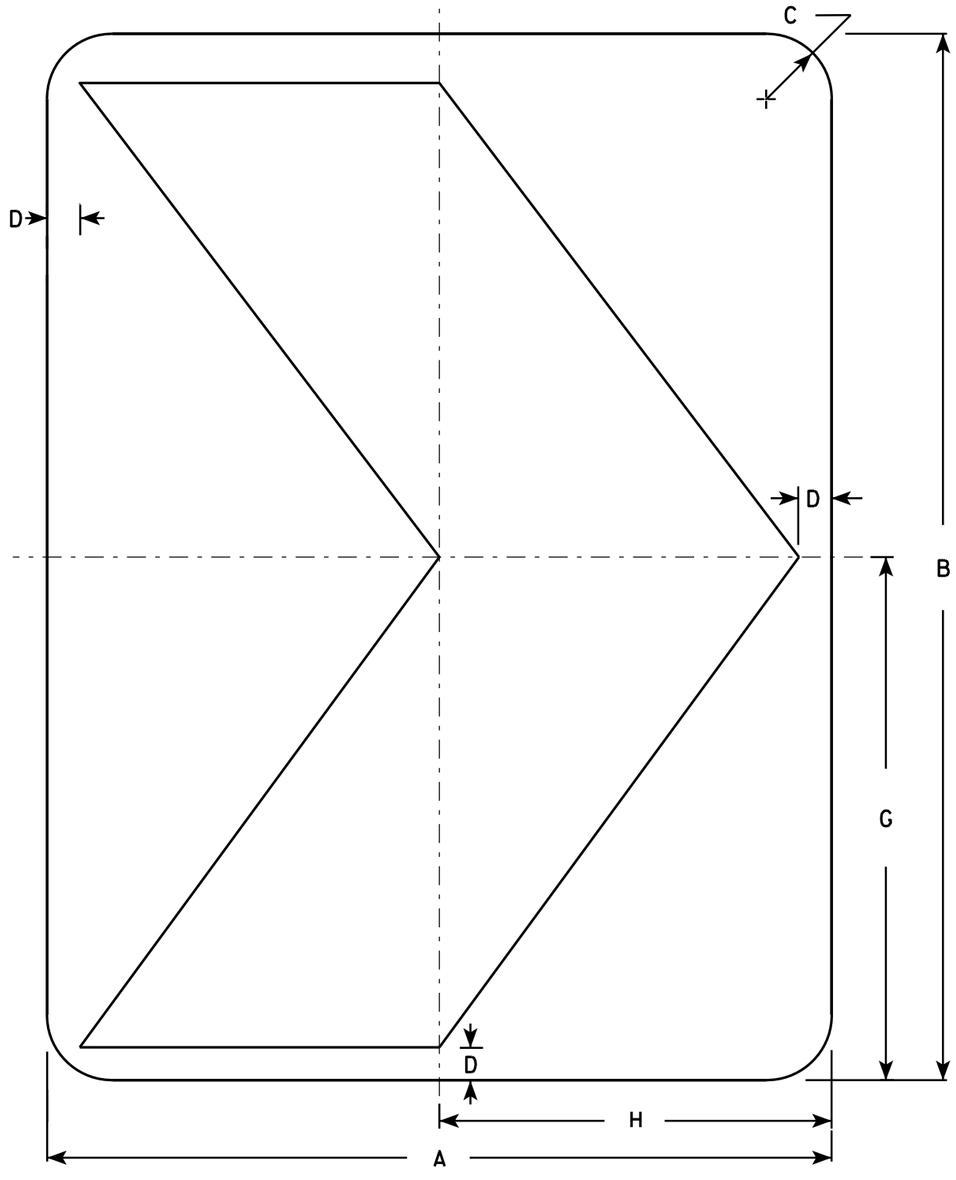
STANDARD SIGN
W1-7

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: 191 | E



W1-8

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.

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 ½	½			9	6																			1.5
2S	18	24	1 ½	¾			12	9																			3.0
2M	18	24	1 ½	¾			12	9																			3.0
3	24	30	1 ½	1			15	12																			5.0
4	30	36	1 ⅞	1 ¼			18	15																			7.5
5	36	48	2 ¼	1 ½			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

PROJECT NO:

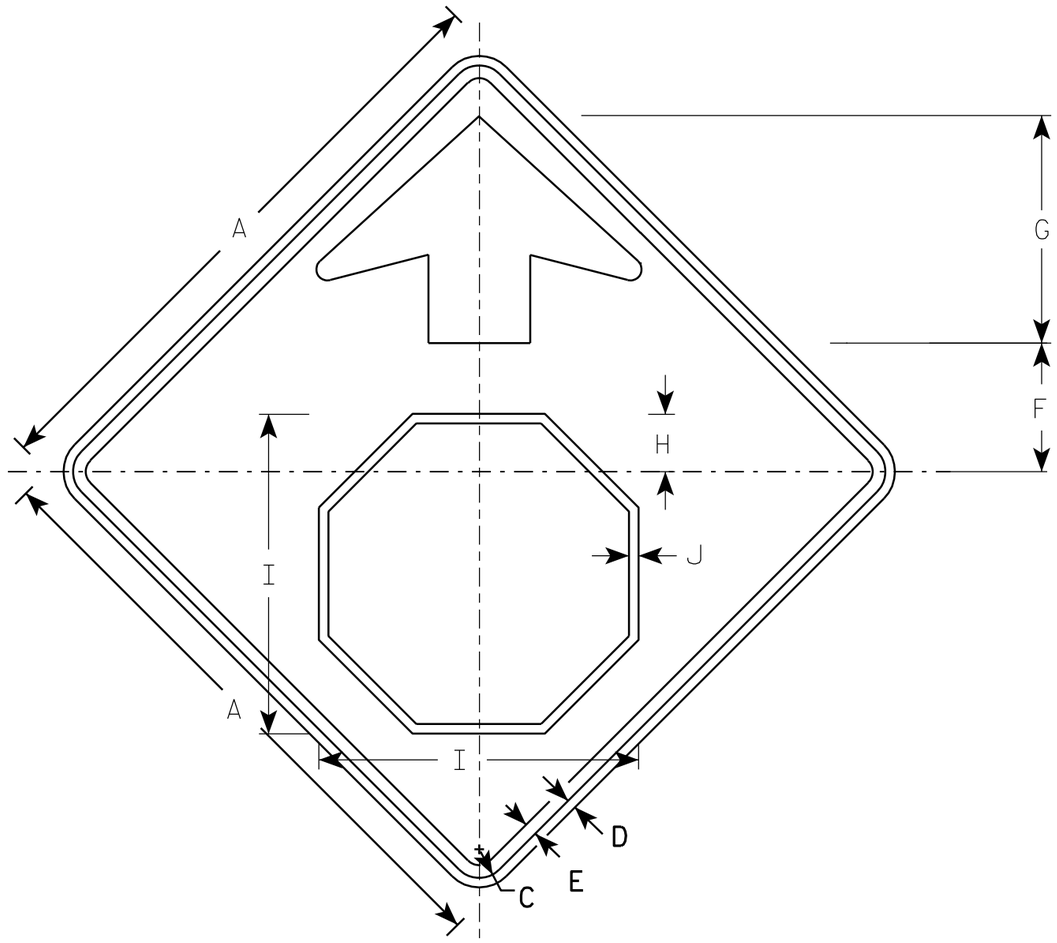
SHEET NO: 192 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W18.DGN PLOT DATE : 07-JUN-2010 12:55 PLOT BY : ditjph

WISDOT/CADDS SHEET 42

7

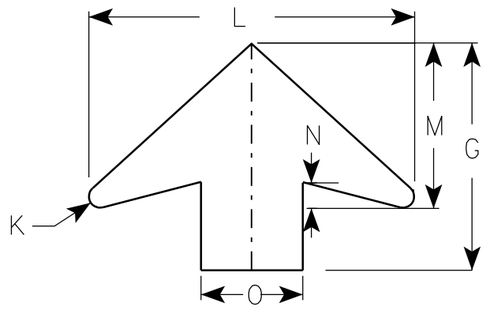
7



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

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

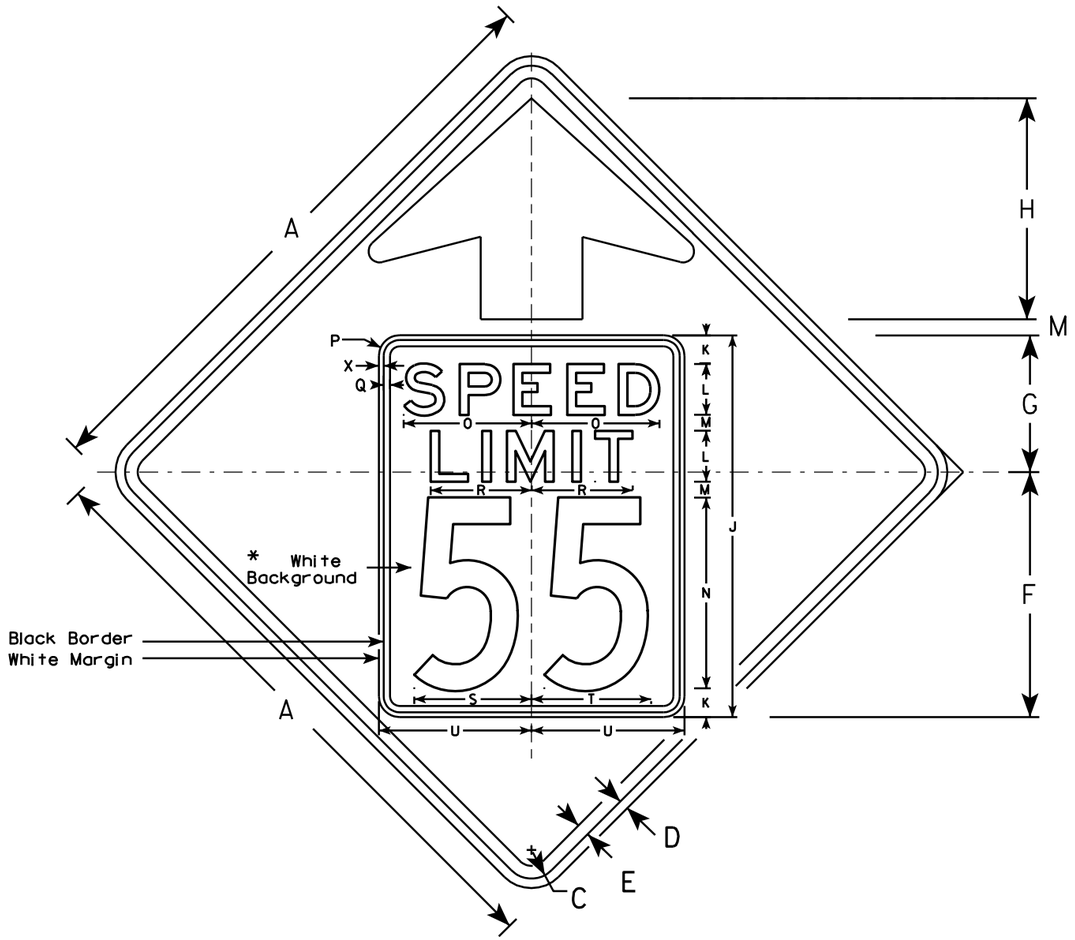
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:

SHEET NO: 193 E

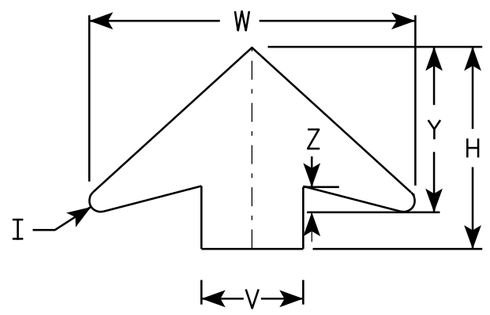


W3-5

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 for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2M	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
3	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN
W3-5

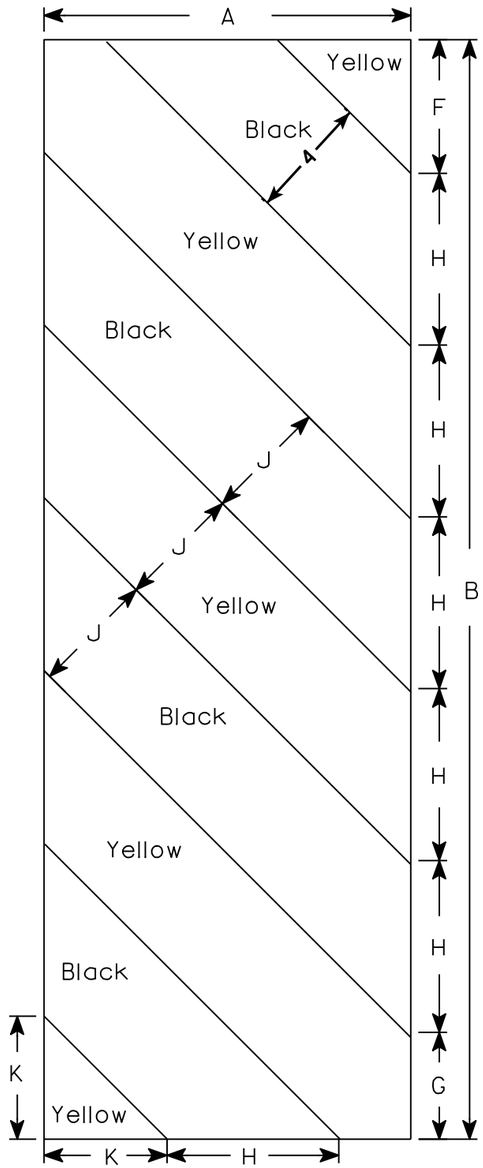
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

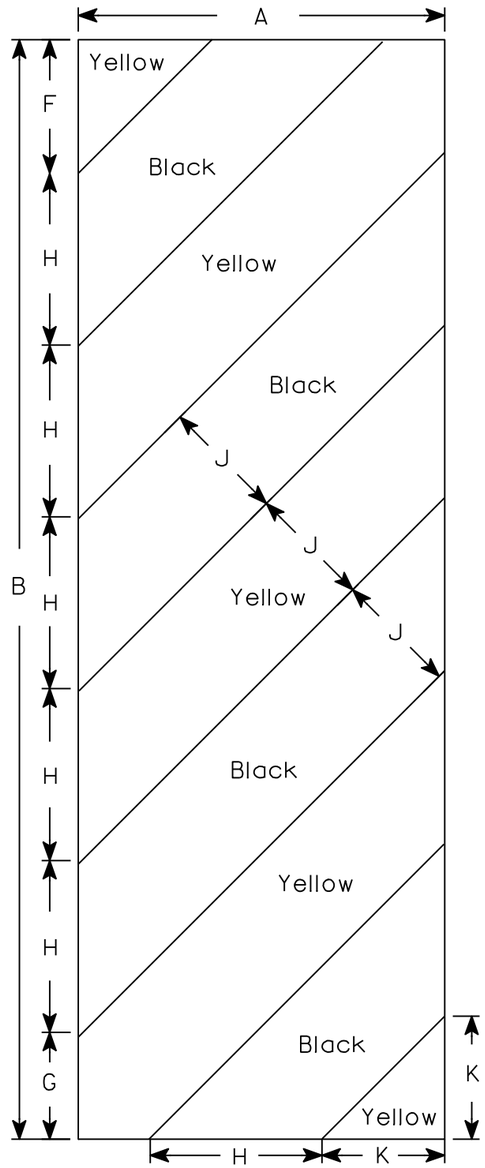
DATE 5/29/12 PLATE NO. W3-5.5

PROJECT NO:

SHEET NO: 194 E



W5-52L



W5-52R

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. Alternate colors of stripes as shown.

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	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
2M	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
3	18	54				6	5 1/2	8 1/2	45°	6	6 9/16																6.75
4																											
5																											

STANDARD SIGN

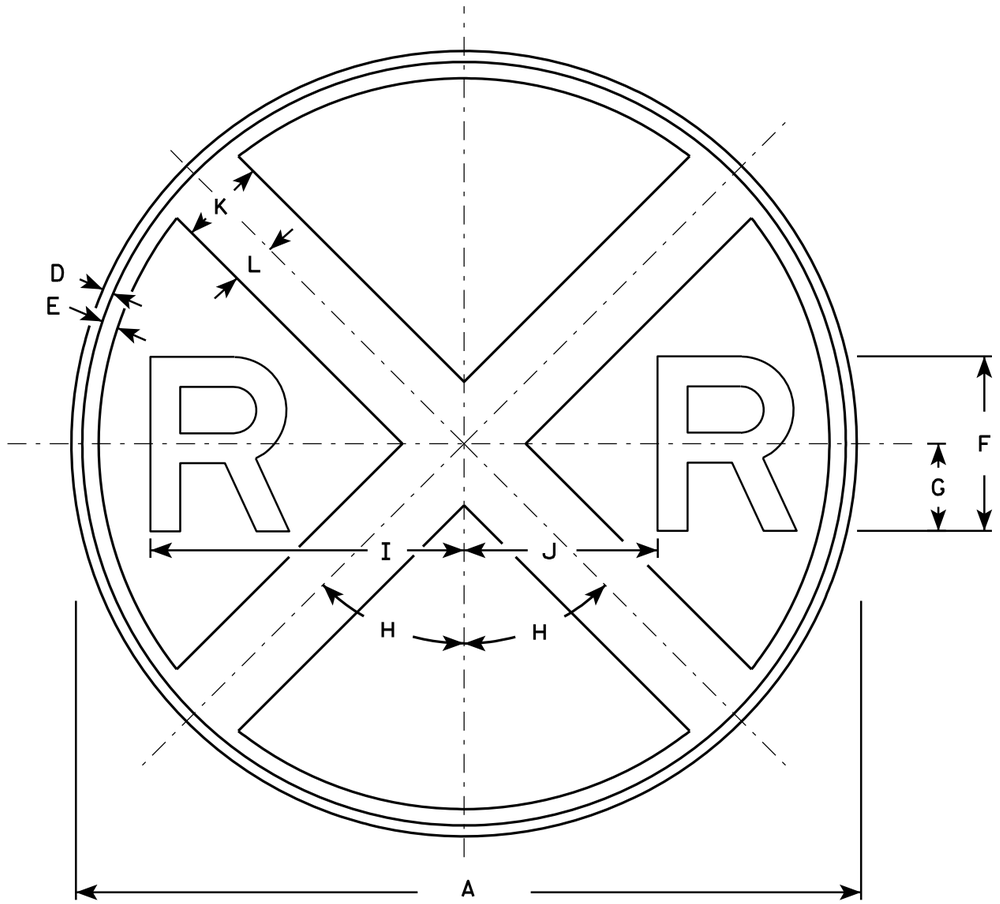
W5-52L & W5-52R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W5-52.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 195 | 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

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																											

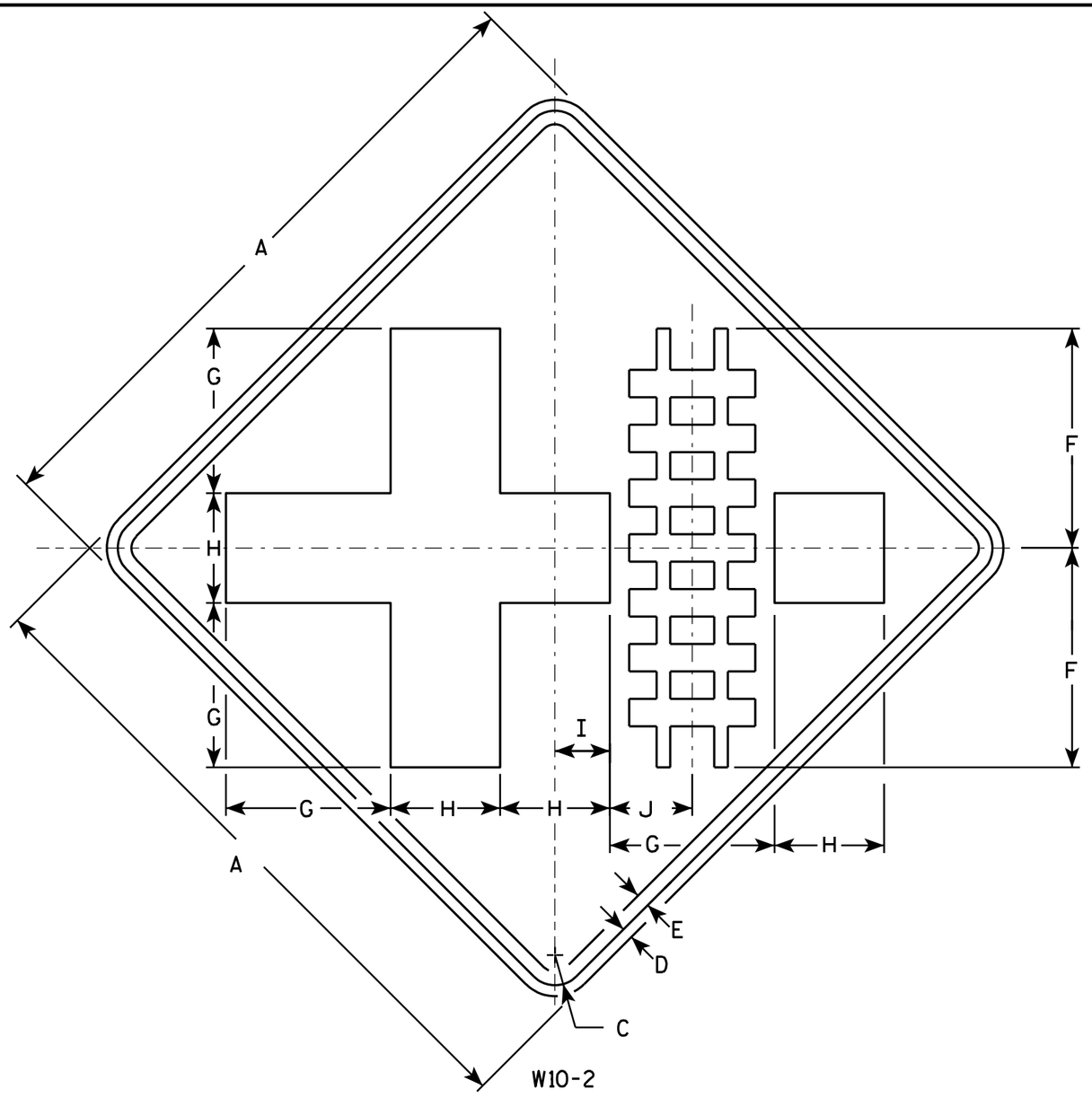
STANDARD SIGN
W10-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

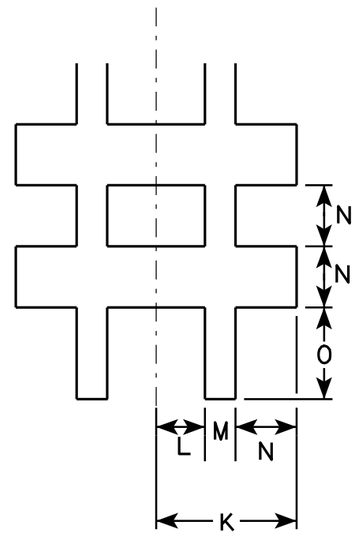
DATE 3/13/13 PLATE NO. W10-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 196	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.



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
W10-2

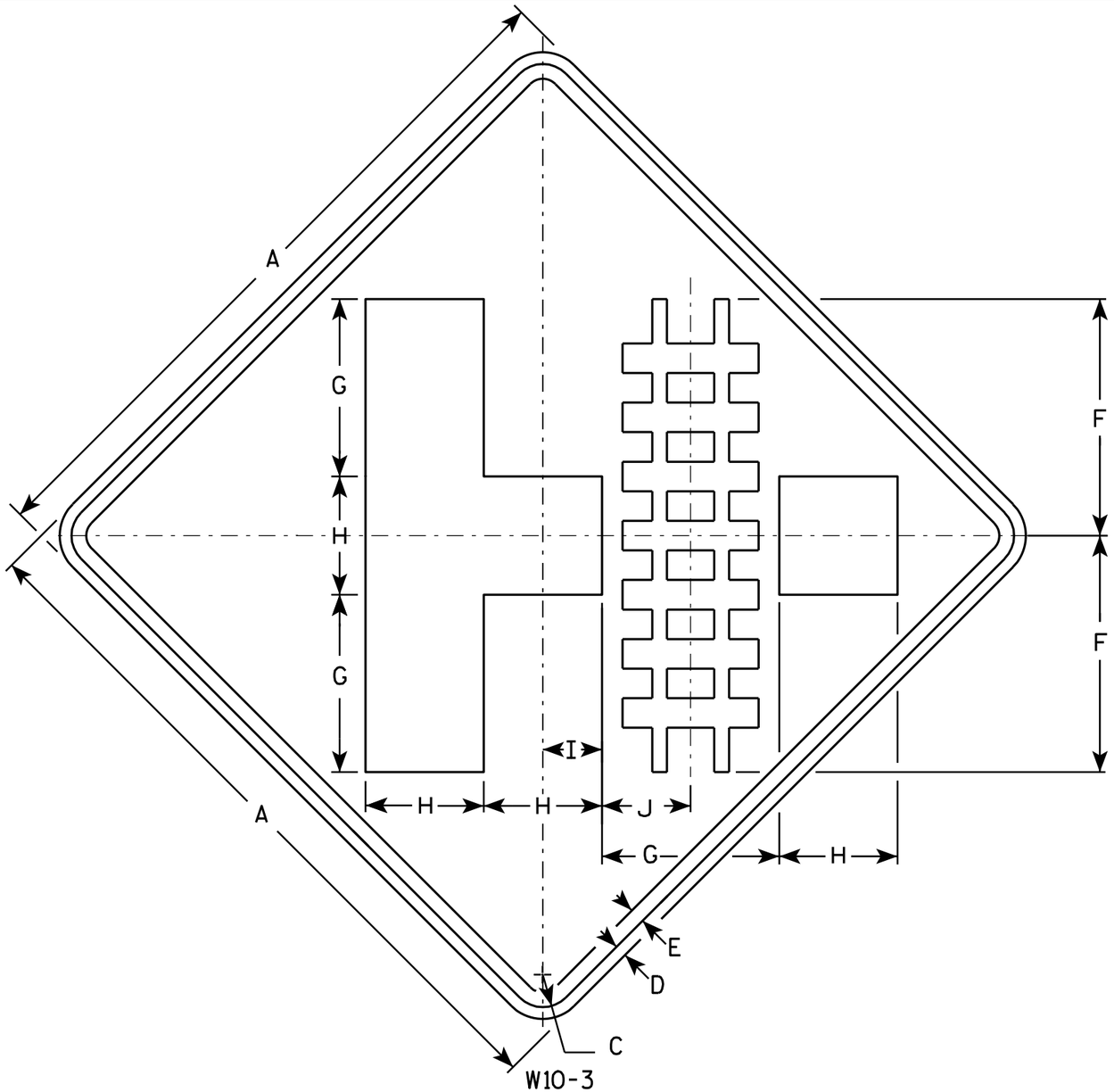
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W10-2.8

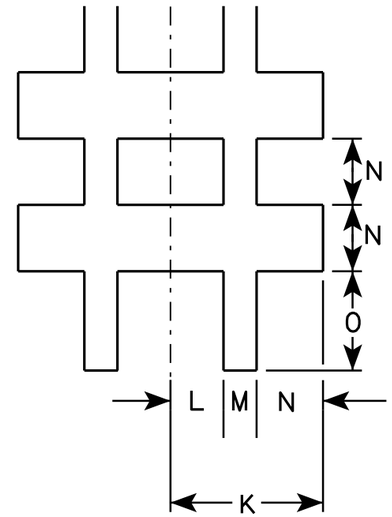
PROJECT NO: | HWY: | COUNTY: | | SHEET NO: 197 | E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W102.DGN PLOT DATE : 13-MAR-2013 11:13 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 6.202372:1.000000
WISDOT/CADDS SHEET 42



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.



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																											

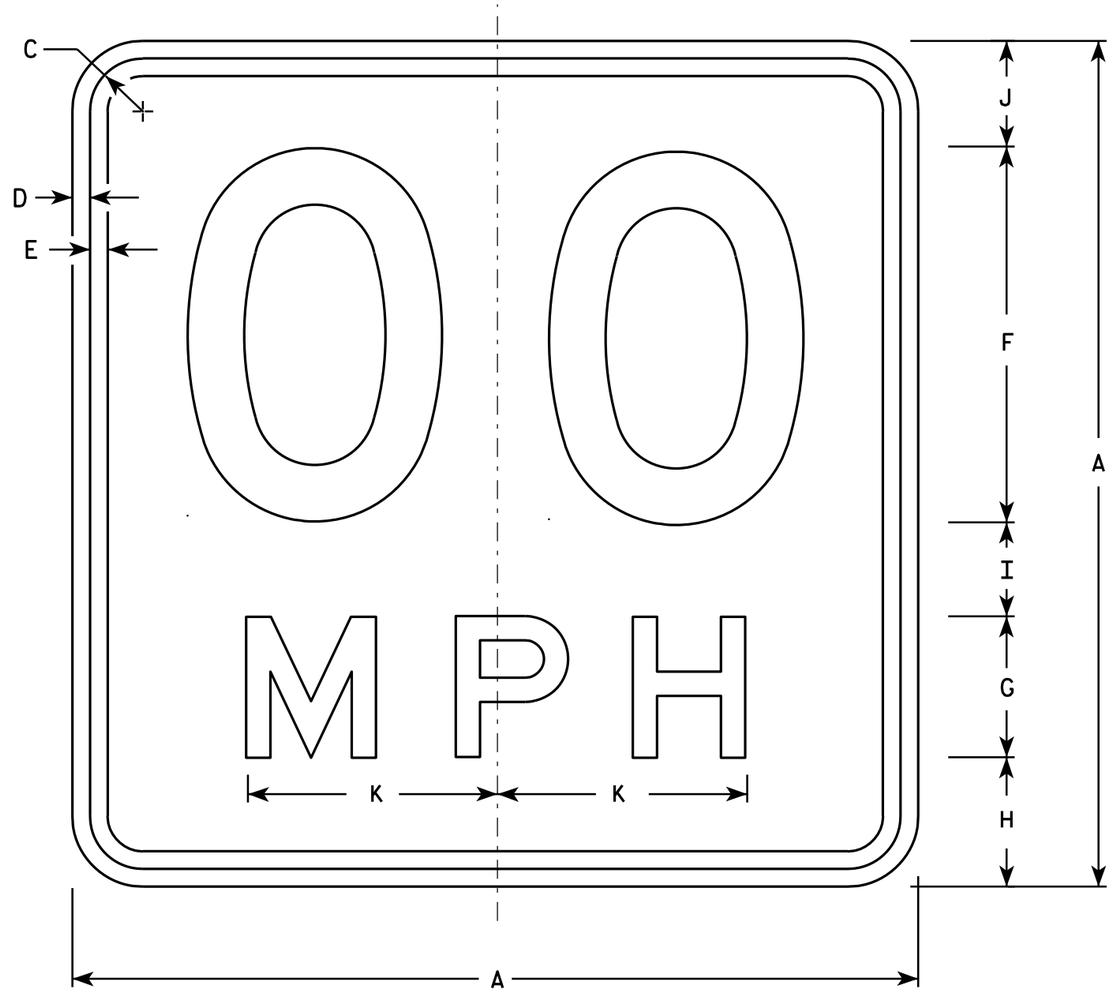
STANDARD SIGN
W10-3

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: 198 | 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.

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

	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

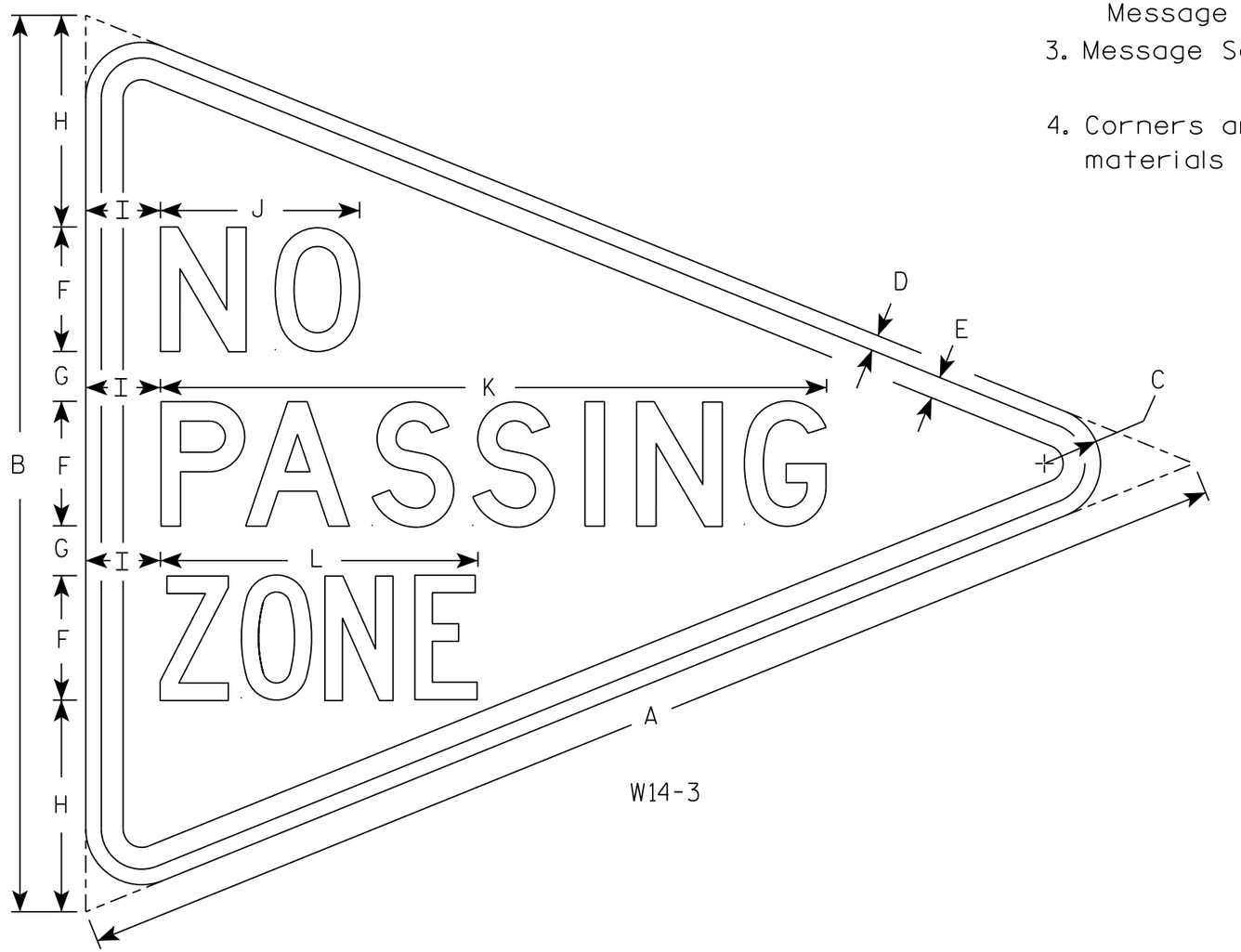
APPROVED Matthew R Rauch
For State Traffic Engineer

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

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 199 | E

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.



W14-3

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: 200 | E

CTH X

Alignment: CTH X
Start Sta: 8+41.12
End Sta: 9+80.00

STATION	Cut Area (Sq.ft.)	Fill Area (Sq.ft.)	Rock Exc (Sq.ft.)	Cut Vol. (Cu.yd.)	Fill Vol. (Cu.yd.)	Rock Exc Vol. (Cu.yd.)	Cum. Cut Vol. (Cu.yd.) 1.00	Cum. Expanded Fill (Cu.yd.) 1.25	Cum. Expanded Rock (Cu.yd.) 1.05	Mass Ordinate (Cu.yd.)
8+41.12	8.51	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8+50.00	20.52	0.00	0.00	4.77	0.00	0.00	4.77	0.00	0.00	4.77
8+95.33	31.77	0.00	0.00	43.89	0.00	0.00	48.66	0.00	0.00	48.66
9+00.00	33.48	0.00	0.00	5.65	0.00	0.00	54.31	0.00	0.00	54.31
9+10.00	34.96	0.00	0.00	12.67	0.00	0.00	66.98	0.00	0.00	66.98
9+15.00	33.95	0.00	0.00	6.38	0.00	0.00	73.36	0.00	0.00	73.36
9+20.00	33.80	0.00	0.00	6.27	0.00	0.00	79.64	0.00	0.00	79.63
9+25.00	35.51	0.00	0.00	6.42	0.00	0.00	86.06	0.00	0.00	86.05
9+30.00	39.18	0.00	0.00	6.92	0.00	0.00	92.97	0.00	0.00	92.97
9+35.00	42.53	0.00	0.00	7.57	0.00	0.00	100.54	0.00	0.00	100.53
9+40.00	37.43	0.28	0.00	7.40	0.03	0.00	107.94	0.04	0.00	107.91
9+45.00	32.41	1.02	0.00	6.47	0.12	0.00	114.41	0.19	0.00	114.22
9+50.00	32.14	0.00	0.00	5.98	0.09	0.00	120.39	0.31	0.00	120.08
9+55.00	24.95	0.00	0.00	5.29	0.00	0.00	125.67	0.31	0.00	125.37
9+60.00	16.75	0.00	0.00	3.86	0.00	0.00	129.53	0.31	0.00	129.23
9+65.00	9.12	0.00	0.00	2.39	0.00	0.00	131.93	0.31	0.00	131.62
9+70.00	1.54	0.00	0.00	0.99	0.00	0.00	132.91	0.31	0.00	132.61
9+75.00	0.00	0.00	0.00	0.14	0.00	0.00	133.06	0.31	0.00	132.75
9+80.00	0.00	0.00	0.00	0.00	0.00	0.00	133.06	0.31	0.00	132.75

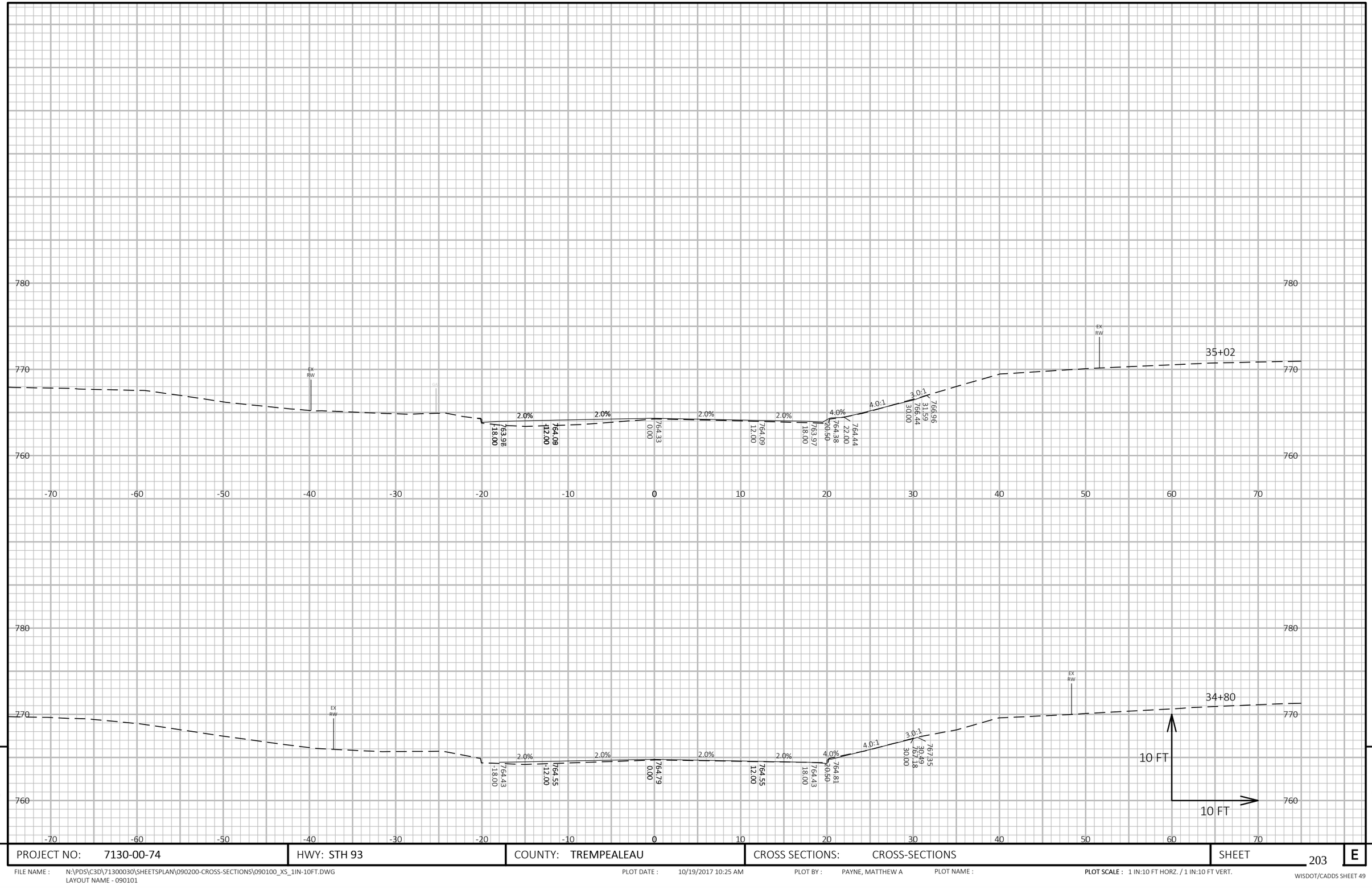
STH 93

Alignment: STH 93
Start Sta: 425+74.88
End Sta: 443+65.34

STATION	Cut Area (Sq.ft.)	Fill Area (Sq.ft.)	Rock Exc (Sq.ft.)	Cut Vol. (Cu.yd.)	Fill Vol. (Cu.yd.)	Rock Exc Vol. (Cu.yd.)	Cum. Cut Vol. (Cu.yd.) 1.00	Cum. Expanded Fill (Cu.yd.) 1.25	Cum. Expanded Rock (Cu.yd.) 1.05	Mass Ordinate (Cu.yd.)
425+74.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
425+75.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
425+80.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
425+85.00	13.39	0.00	0.00	1.24	0.00	0.00	1.24	0.00	0.00	1.24
425+90.00	21.30	0.00	0.00	3.21	0.00	0.00	4.45	0.00	0.00	4.45
425+95.00	29.24	0.00	0.00	4.68	0.00	0.00	9.13	0.00	0.00	9.13
426+00.00	37.09	0.00	0.00	6.14	0.00	0.00	15.27	0.00	0.00	15.27
426+05.00	37.36	0.00	0.00	6.89	0.00	0.00	22.17	0.00	0.00	22.17
426+10.00	32.48	2.68	0.00	6.47	0.25	0.00	28.63	0.31	0.00	28.32
426+15.00	35.10	3.52	0.00	6.26	0.57	0.00	34.89	1.03	0.00	33.86
426+20.00	33.19	3.92	0.00	6.32	0.69	0.00	41.21	1.89	0.00	39.32
426+25.00	32.29	2.75	0.00	6.06	0.62	0.00	47.27	2.66	0.00	44.61
426+30.00	30.69	2.19	0.00	5.83	0.46	0.00	53.11	3.23	0.00	49.87
426+35.00	28.60	1.57	0.00	5.49	0.35	0.00	58.60	3.67	0.00	54.93
426+40.00	29.89	0.55	0.00	5.42	0.20	0.00	64.01	3.91	0.00	60.10
426+45.00	34.28	0.75	0.00	5.94	0.12	0.00	69.95	4.07	0.00	65.89
426+48.06	37.42	0.61	0.00	4.06	0.08	0.00	74.02	4.16	0.00	69.85
426+50.00	39.83	0.62	0.00	2.78	0.04	0.00	76.79	4.22	0.00	72.57
426+59.24	54.24	0.15	0.00	16.10	0.13	0.00	92.89	4.38	0.00	88.51
426+83.98	107.00	0.00	0.00	73.88	0.07	0.00	166.77	4.46	0.00	162.31
427+00.00	105.48	0.00	0.00	63.02	0.00	0.00	229.79	4.46	0.00	225.32
427+08.73	102.69	0.00	0.00	33.64	0.00	0.00	263.42	4.46	0.00	258.96
427+50.00	100.06	0.00	0.00	154.97	0.00	0.00	418.39	4.46	0.00	413.93
428+00.00	95.66	0.05	0.00	181.22	0.05	0.00	599.62	4.52	0.00	595.09

~ CONTINUE ~

428+25.94	90.88	0.01	0.00	89.62	0.03	0.00	689.24	4.56	0.00	684.67
428+50.00	86.43	0.13	0.00	78.99	0.06	0.00	768.23	4.64	0.00	763.59
429+00.00	98.40	0.00	0.00	171.14	0.12	0.00	939.37	4.79	0.00	934.58
429+50.00	92.96	0.00	0.00	177.18	0.00	0.00	1116.55	4.79	0.00	1111.77
430+00.00	89.37	0.00	0.00	168.82	0.00	0.00	1285.37	4.79	0.00	1280.59
430+50.00	81.82	0.00	0.00	158.51	0.00	0.00	1443.89	4.79	0.00	1439.10
431+00.00	79.32	0.00	0.00	149.21	0.00	0.00	1593.09	4.79	0.00	1588.31
431+50.00	60.96	1.92	0.00	129.89	1.78	0.00	1722.98	7.01	0.00	1715.97
432+00.00	37.33	9.76	0.00	91.01	10.81	0.00	1813.99	20.52	0.00	1793.46
432+50.00	35.34	12.38	0.00	67.29	20.51	0.00	1881.28	46.16	0.00	1835.12
433+00.00	45.85	8.01	0.00	75.18	18.88	0.00	1956.46	69.76	0.00	1886.70
433+50.00	56.68	4.37	0.00	94.93	11.46	0.00	2051.39	84.09	0.00	1967.31
434+00.00	65.79	4.85	0.00	113.39	8.54	0.00	2164.79	94.76	0.00	2070.02
434+50.00	68.41	6.83	0.00	124.25	10.82	0.00	2289.04	108.29	0.00	2180.75
435+00.00	64.47	7.65	0.00	123.03	13.42	0.00	2412.07	125.06	0.00	2287.01
435+50.00	56.58	7.72	0.00	112.09	14.24	0.00	2524.15	142.86	0.00	2381.30
436+00.00	52.29	3.19	0.00	100.81	10.10	0.00	2624.96	155.48	0.00	2469.48
436+50.00	97.80	0.00	0.00	138.97	2.95	0.00	2763.93	159.17	0.00	2604.76
437+00.00	73.89	10.25	0.00	158.97	9.49	0.00	2922.90	171.04	0.00	2751.87
437+50.00	35.96	18.01	56.32	101.71	26.17	52.15	3024.62	135.30	54.76	2889.32
438+00.00	38.79	31.66	61.69	69.21	46.00	109.27	3093.83	49.38	169.49	3044.45
438+50.00	32.37	42.55	57.44	65.89	68.72	110.30	3159.72	-9.49	285.31	3169.21
439+00.00	30.85	28.95	67.97	58.54	66.21	116.12	3218.25	-79.14	407.23	3297.39
439+50.00	39.17	12.71	108.12	64.83	38.58	163.05	3283.09	-244.92	578.43	3528.01
440+00.00	48.60	7.74	66.50	81.27	18.93	161.69	3364.36	-433.47	748.21	3797.83
440+50.00	23.05	11.99	20.71	66.34	18.26	80.75	3430.70	-516.63	833.00	3947.33
441+00.00	24.14	17.13	0.00	43.69	26.96	19.17	3474.39	-508.10	853.13	3982.49
441+50.00	31.93	10.53	0.00	51.92	25.61	0.00	3526.31	-476.09	853.13	4002.40
442+00.00	27.32	11.49	0.00	54.86	20.39	0.00	3581.17	-450.60	853.13	4031.78
442+50.00	35.56	5.06	0.00	58.22	15.33	0.00	3639.40	-431.44	853.13	4070.84
443+00.00	51.26	1.08	0.00	80.39	5.69	0.00	3719.78	-424.33	853.13	4144.11
443+50.00	35.11	0.00	0.00	79.97	1.00	0.00	3799.76	-423.08	853.13	4222.84
443+65.34	38.65	0.00	0.00	20.95	0.00	0.00	3820.70	-423.08	853.13	4243.78



9

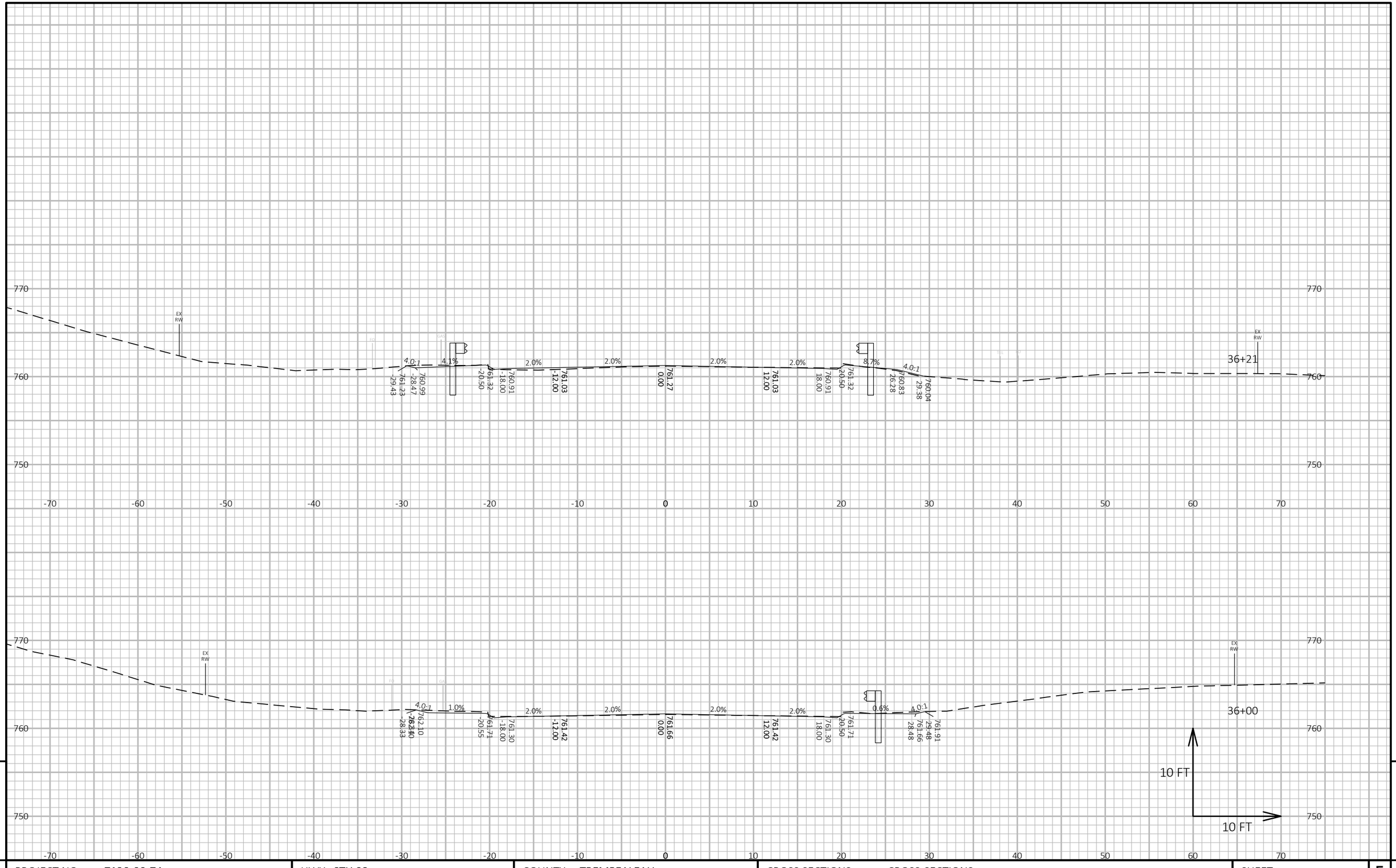
9

PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 203	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090101

PLOT DATE : 10/19/2017 10:25 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

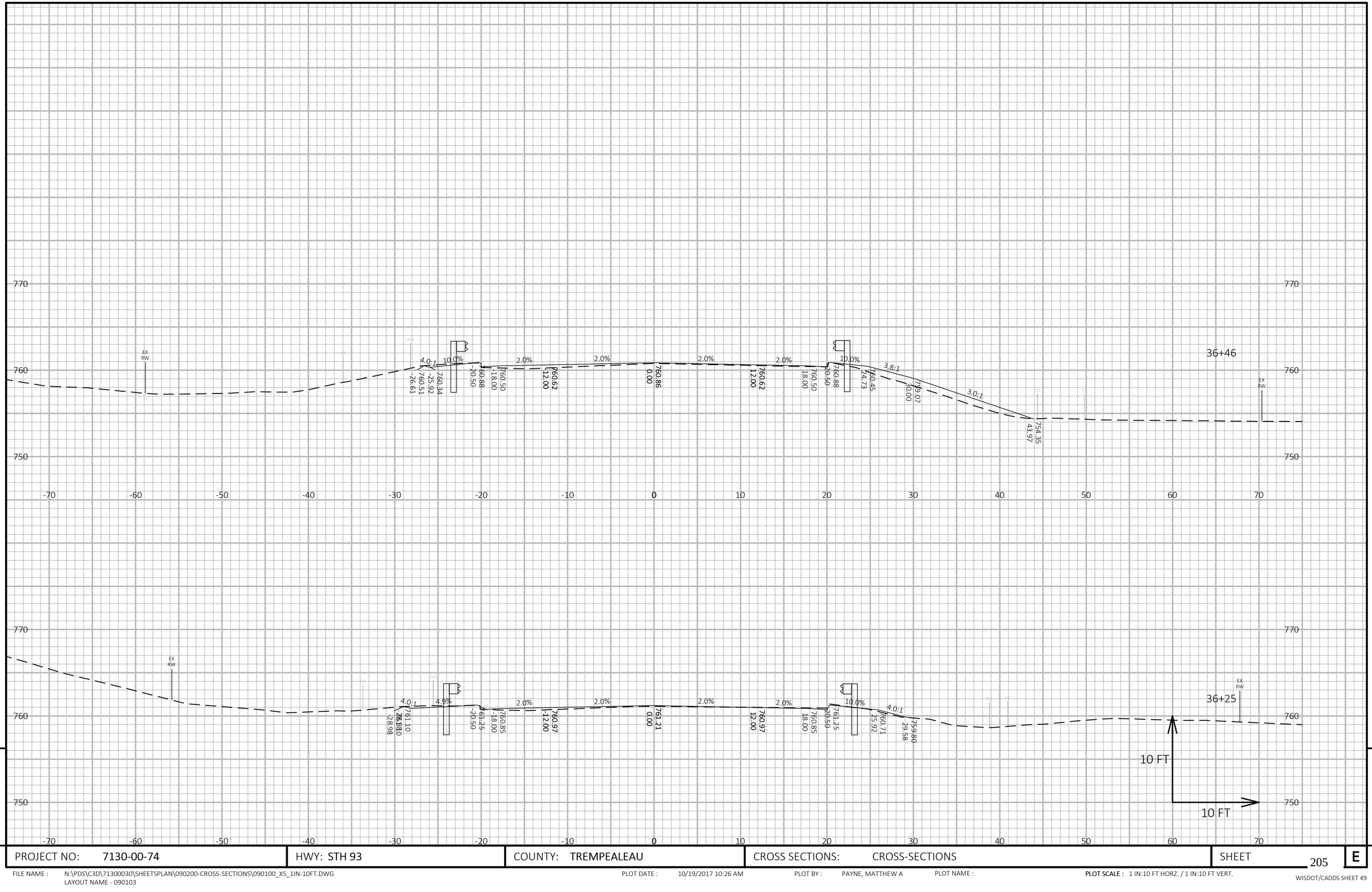
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 204	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090102

PLOT DATE : 10/19/2017 10:25 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

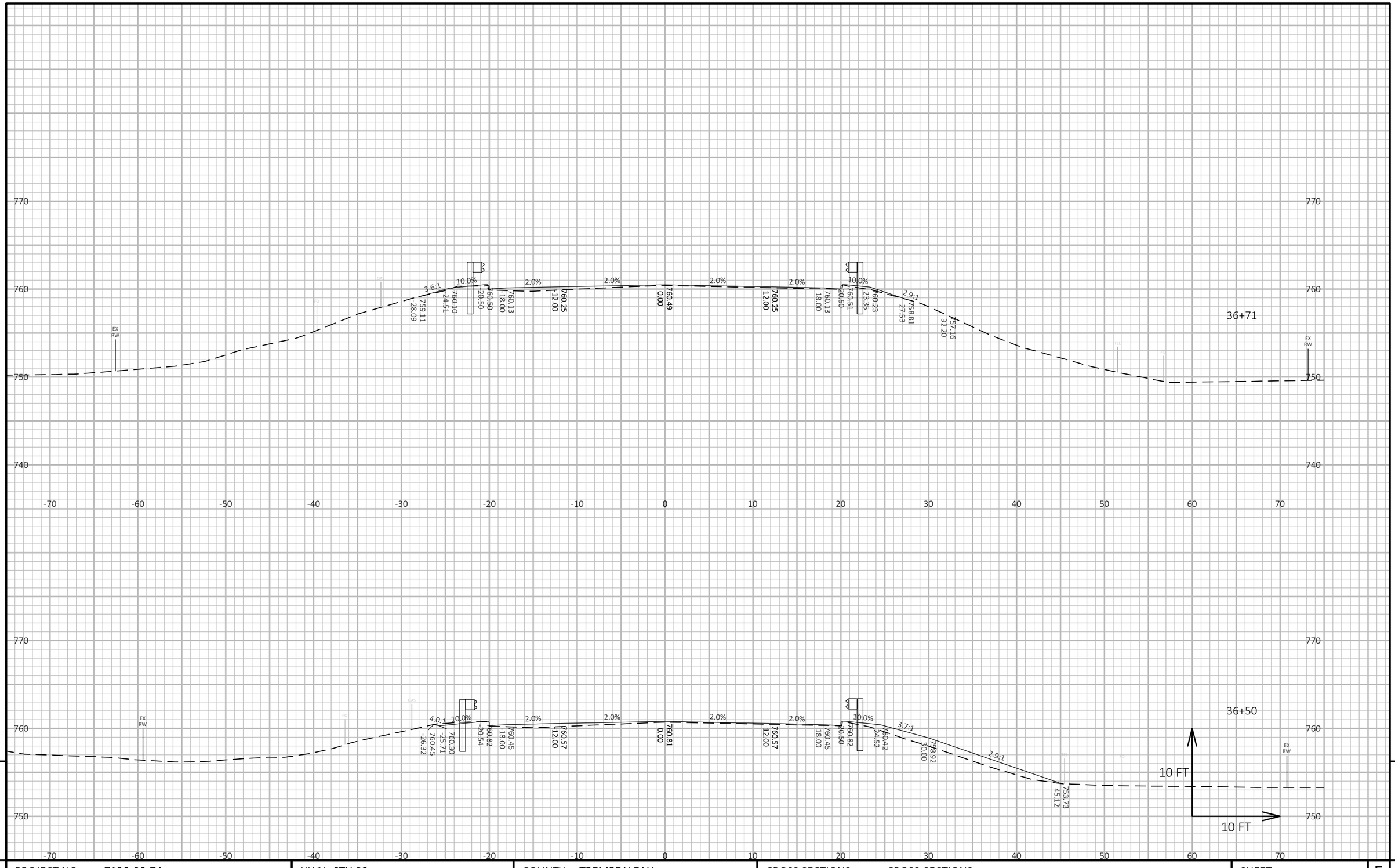
9

PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 205	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090103

PLOT DATE : 10/19/2017 10:26 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

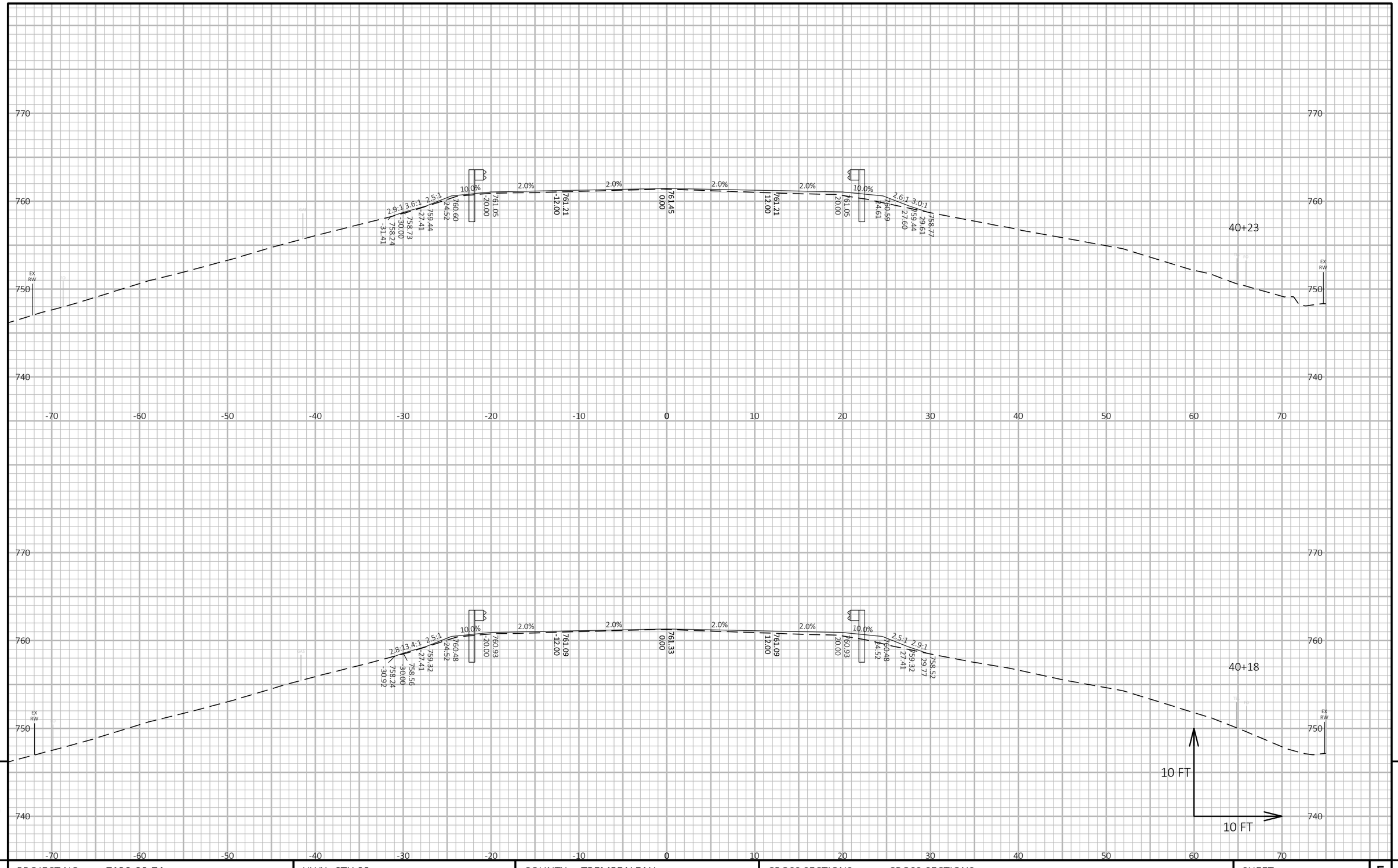
9

PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 206	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090104

PLOT DATE : 10/19/2017 10:26 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



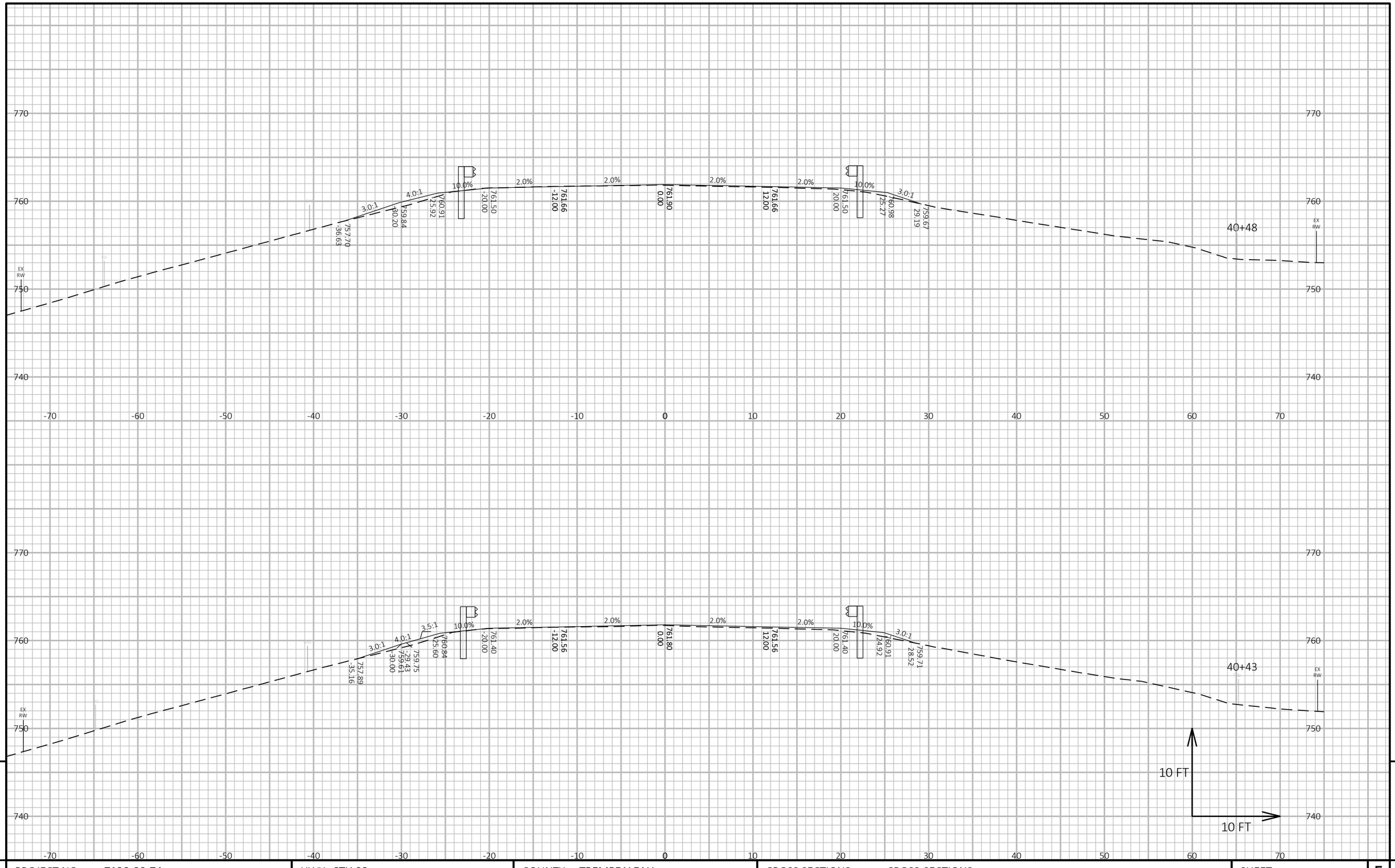
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 207	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090105

PLOT DATE : 10/19/2017 10:26 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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

WISDOT/CADDS SHEET 49



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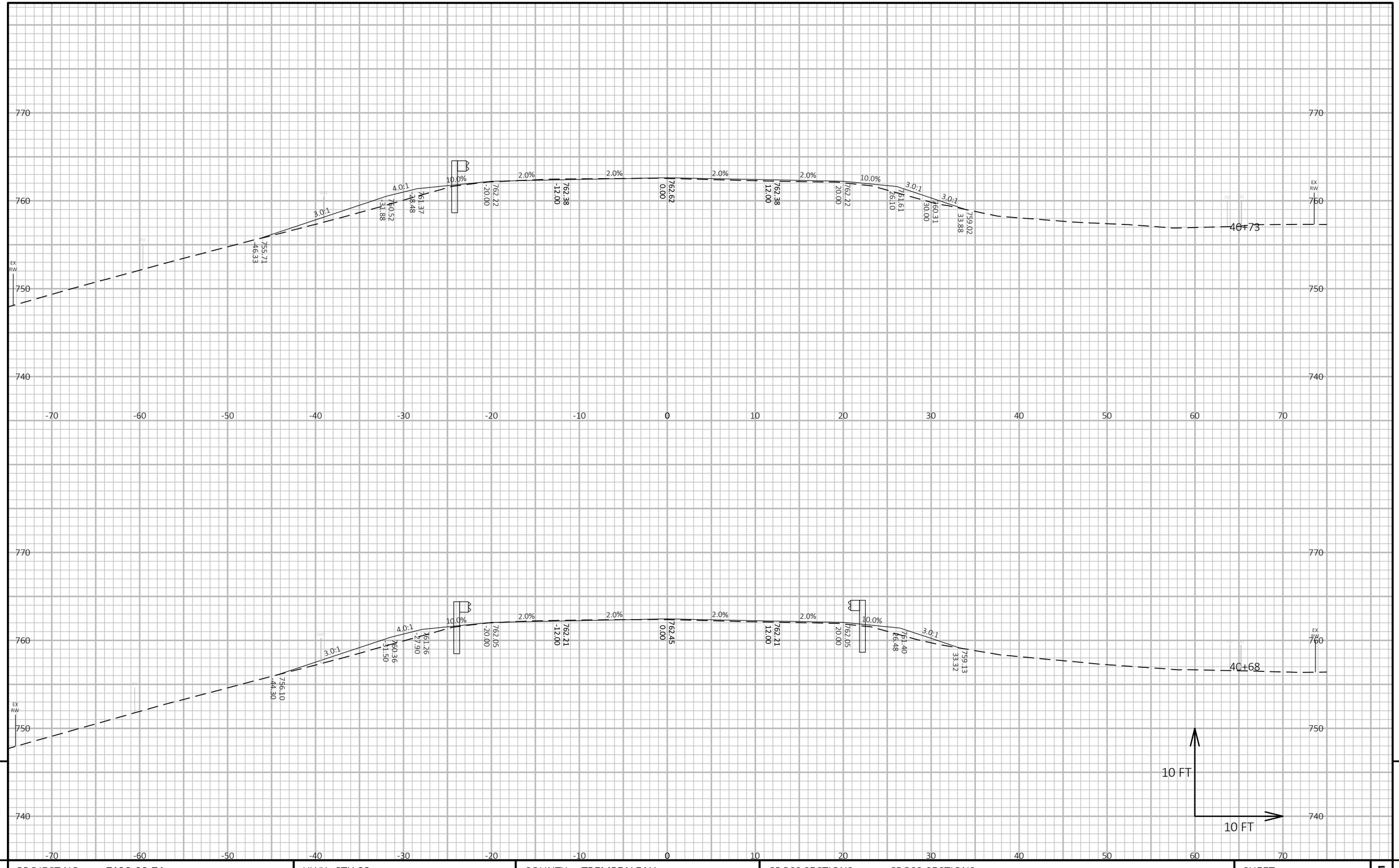
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 208	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090106

PLOT DATE : 10/19/2017 10:27 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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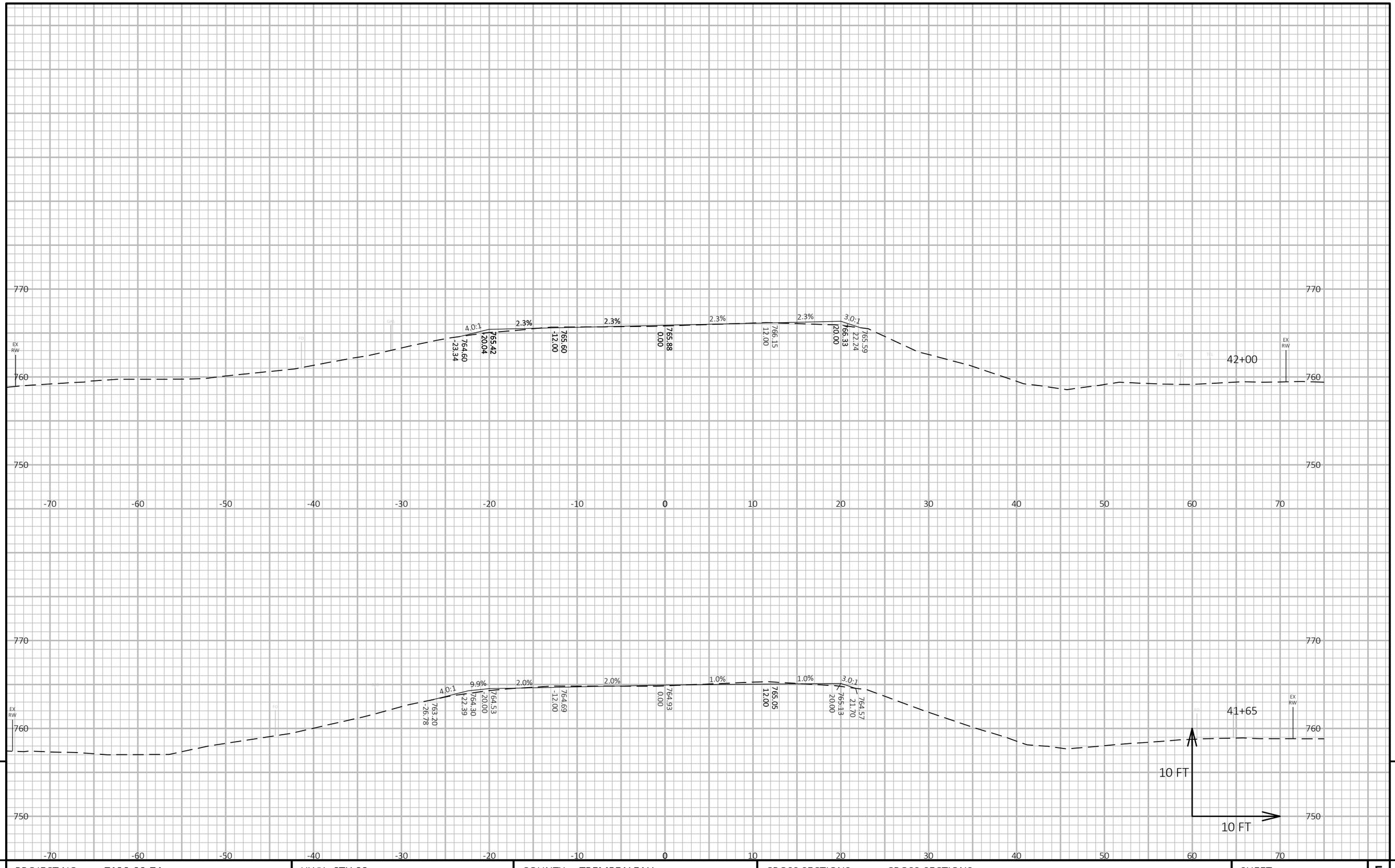
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 209	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090107

PLOT DATE : 10/19/2017 10:27 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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

WISDOT/CADDS SHEET 49



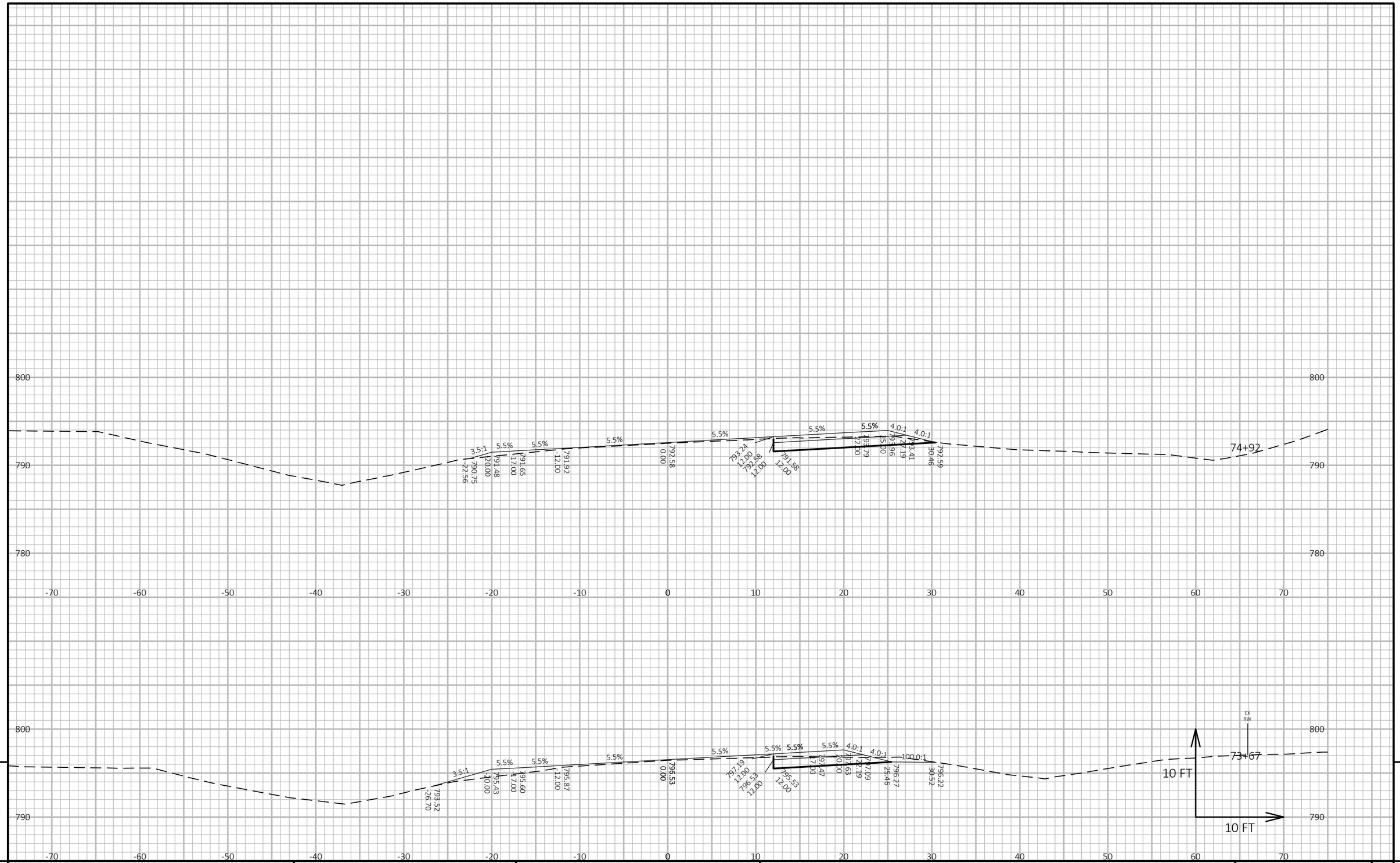
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 210	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090108

PLOT DATE : 10/19/2017 10:27 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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

WISDOT/CADDS SHEET 49

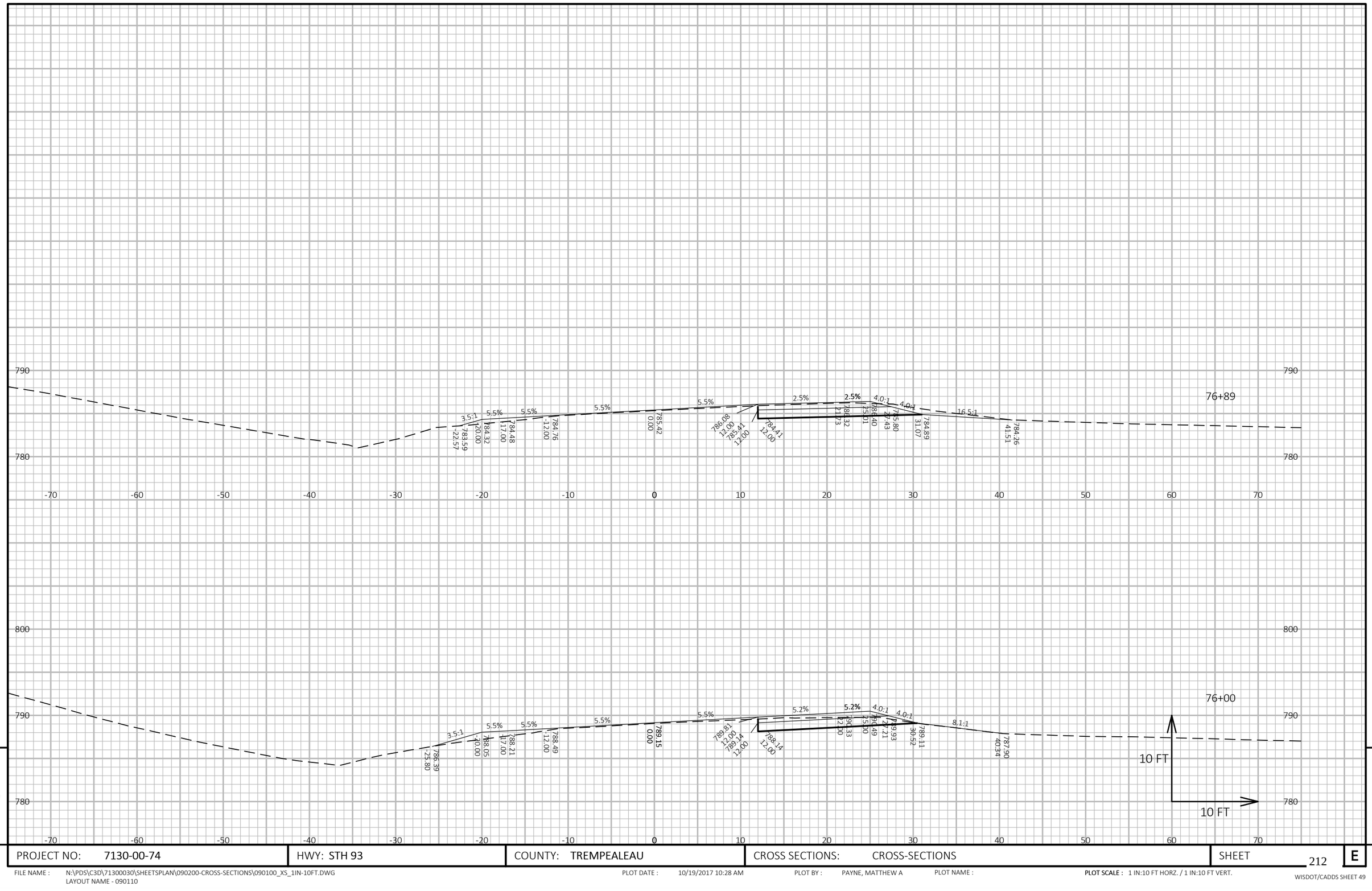


PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 211	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090109

PLOT DATE : 10/19/2017 10:28 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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



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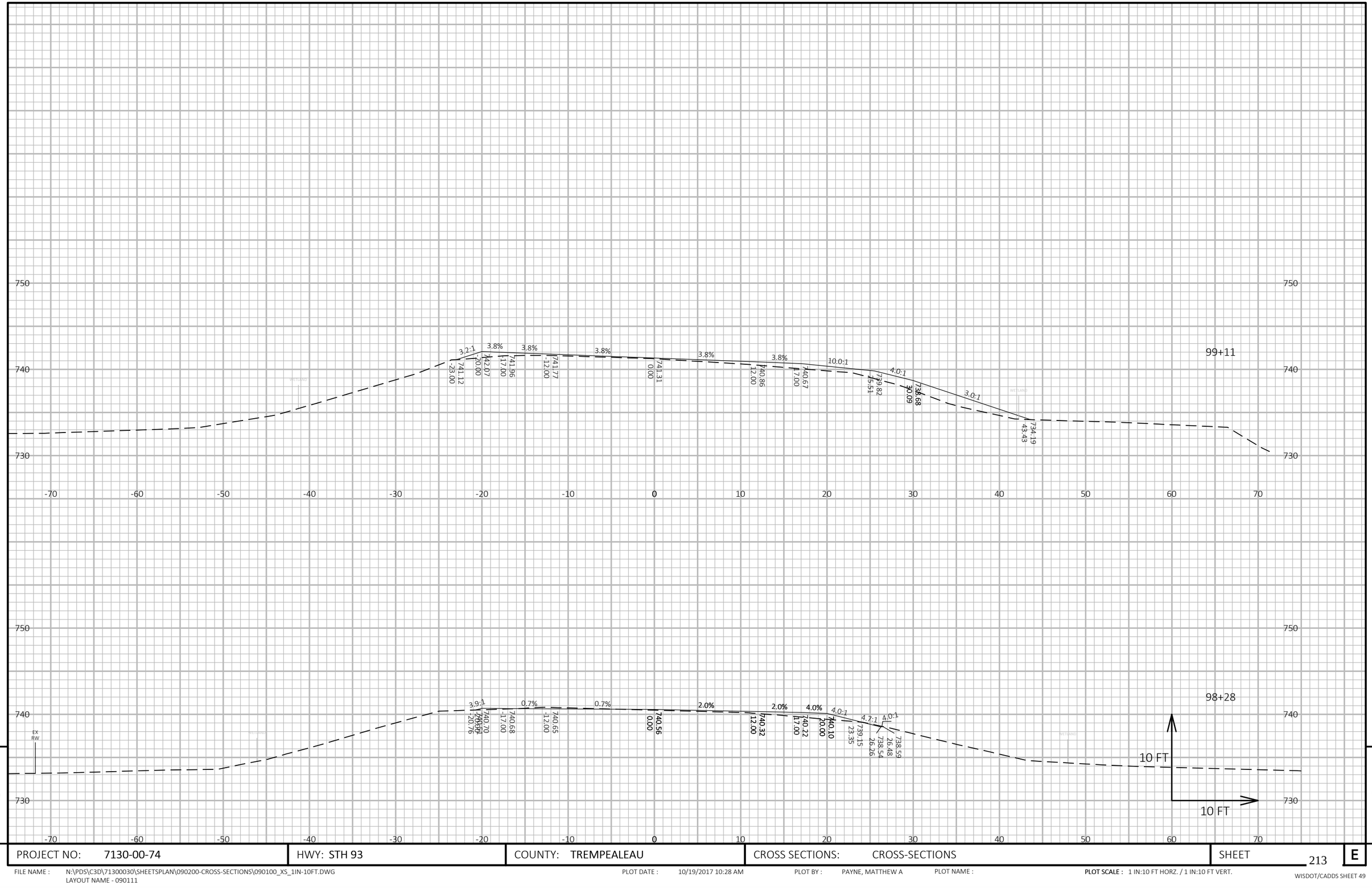
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 212	E

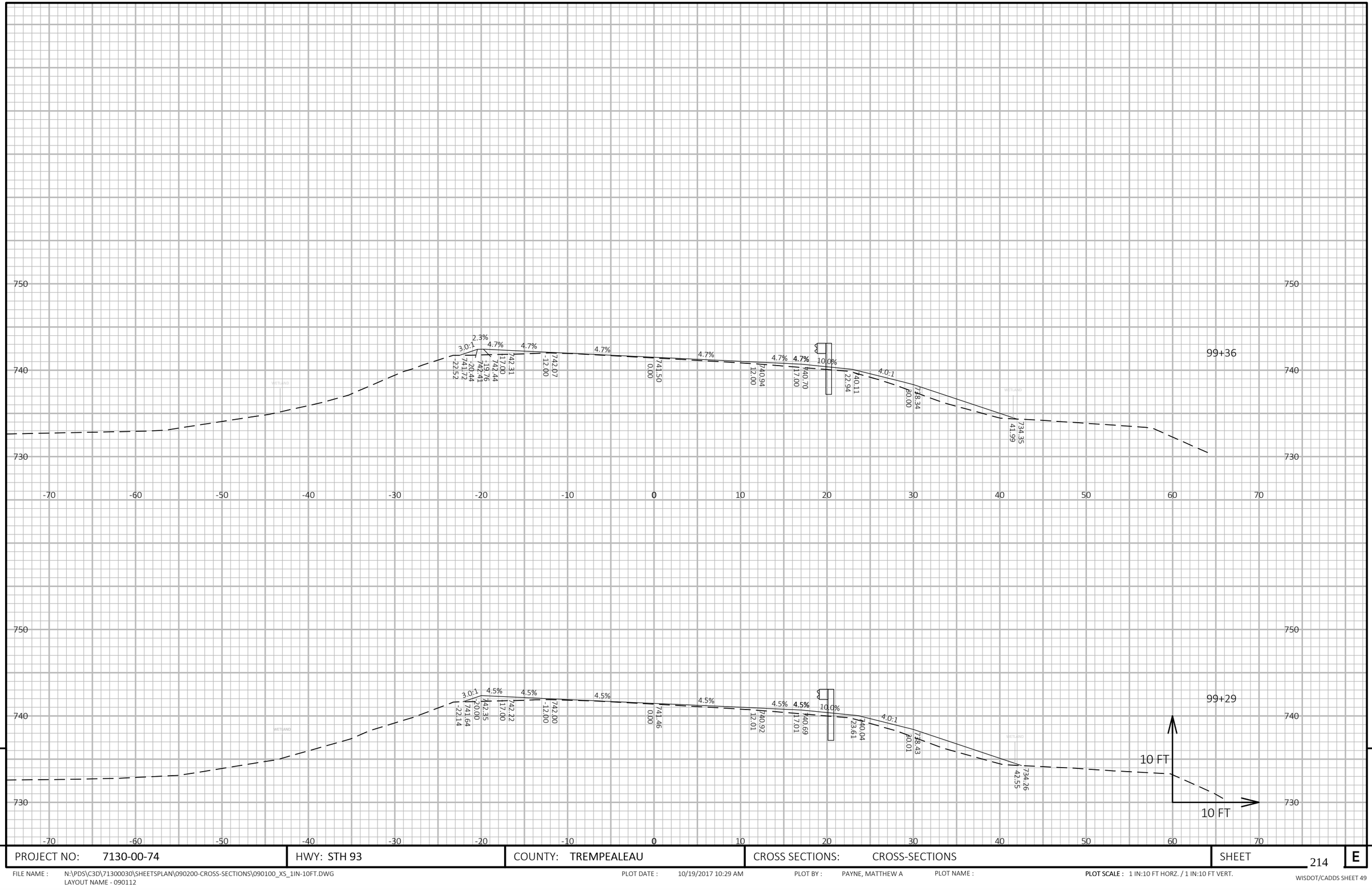
FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090110

PLOT DATE : 10/19/2017 10:28 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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

WISDOT/CADDS SHEET 49


99+11
750
740
730
-70
-60
-50
-40
-30
-20
-10
0
10
20
30
40
50
60
70
3.2:1
3.8%
741.12
-23.00
742.07
20.00
741.96
17.00
741.77
-12.00
741.31
0.00
740.86
12.00
740.67
7.00
739.82
15.51
738.68
30.09
734.19
43.43
10.0:1
4.0:1
3.0:1
WETLAND
98+28
0.9:1
0.7%
740.76
20.76
740.70
20.00
740.68
17.00
740.65
-12.00
740.56
0.00
740.32
12.00
740.22
7.00
740.10
20.00
739.15
23.35
738.54
26.26
738.59
16.48
2.0%
4.0%
4.7:1
10.1
EX RW
10 FT
9
PROJECT NO: 7130-00-74
HWY: STH 93
COUNTY: TREMPEALEAU
CROSS SECTIONS: CROSS-SECTIONS
SHEET 213
E
FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090111
PLOT DATE : 10/19/2017 10:28 AM
PLOT BY : PAYNE, MATTHEW A
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



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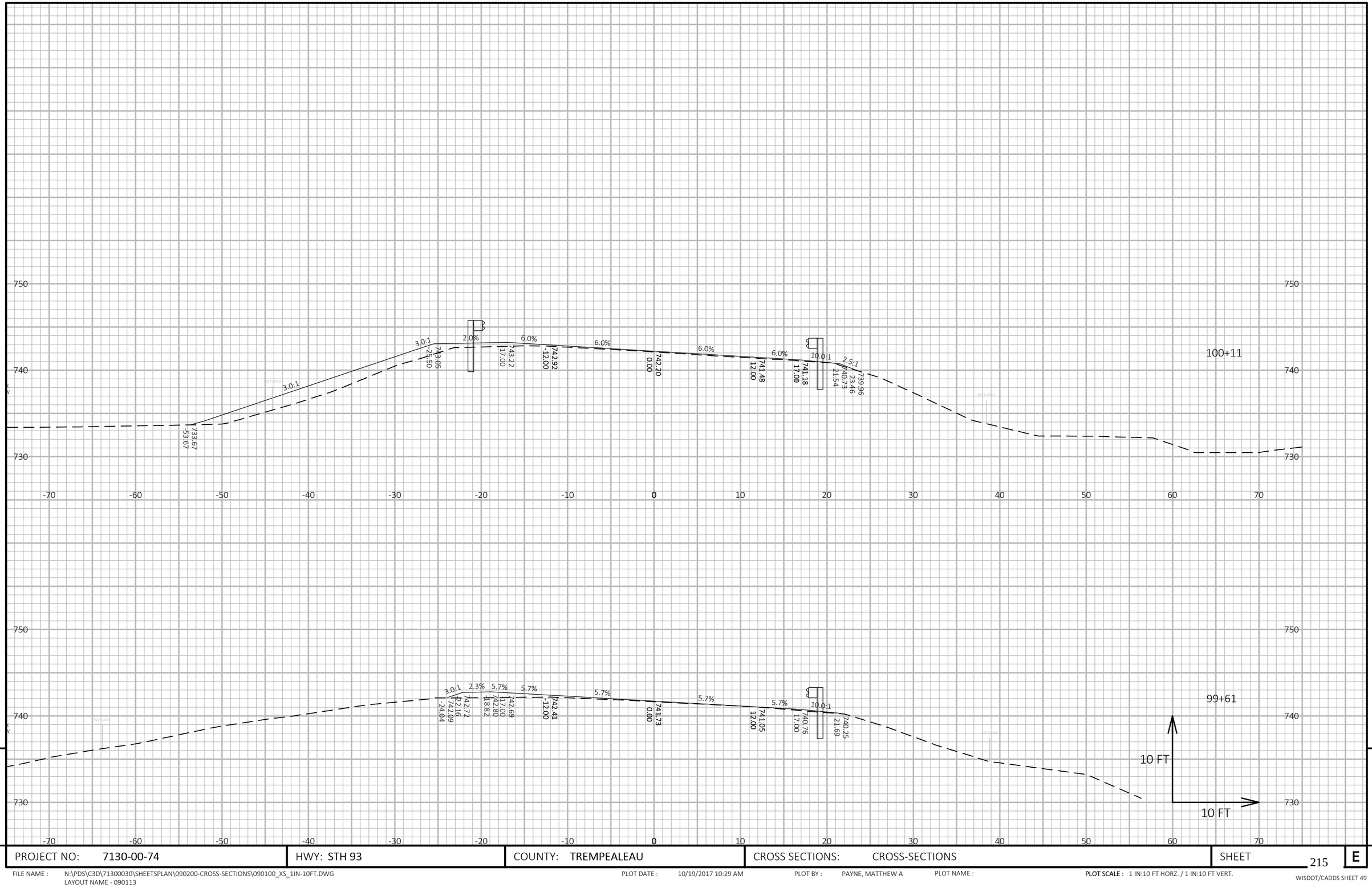
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 214	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090112

PLOT DATE : 10/19/2017 10:29 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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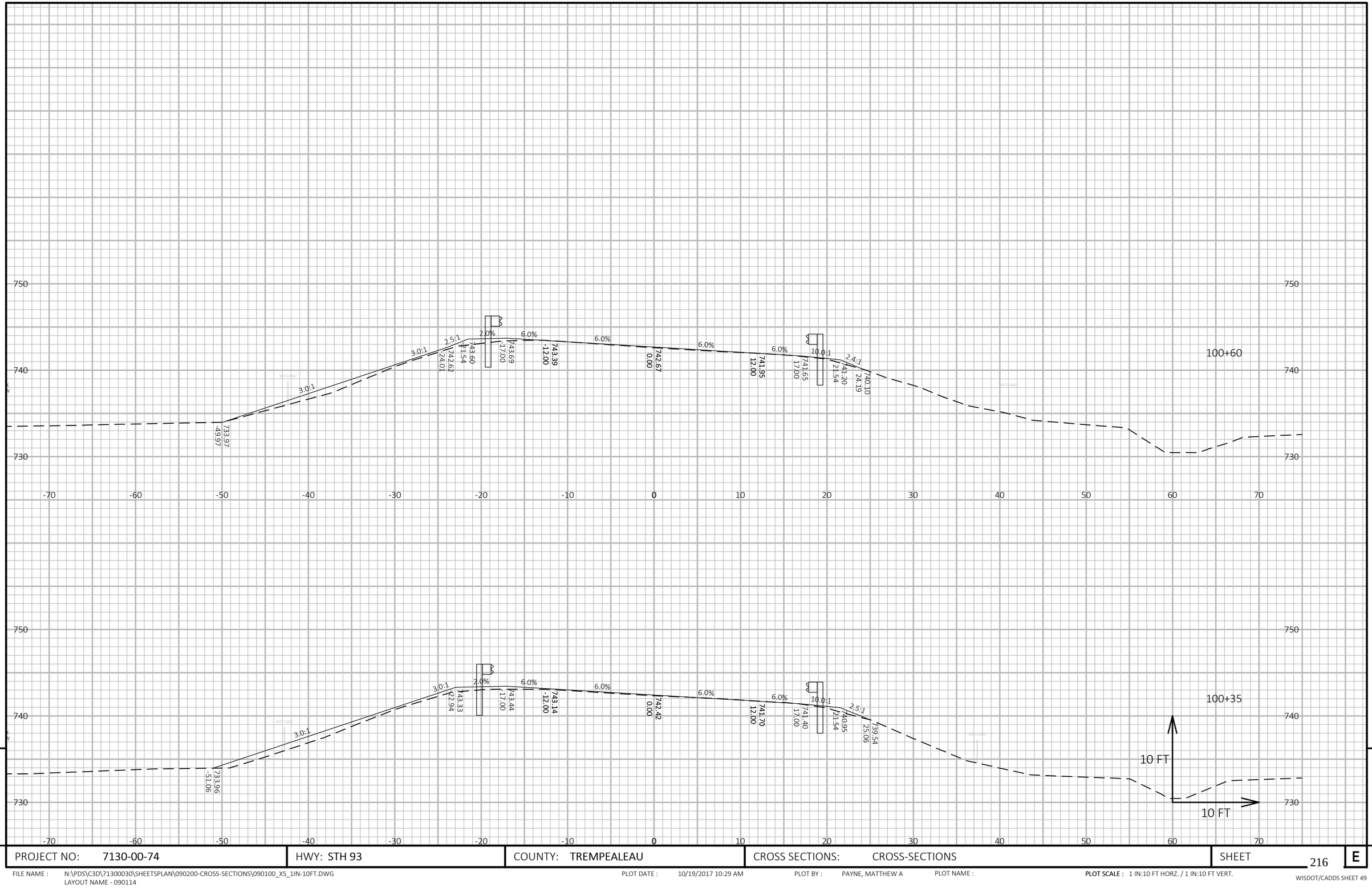
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 215	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090113

PLOT DATE : 10/19/2017 10:29 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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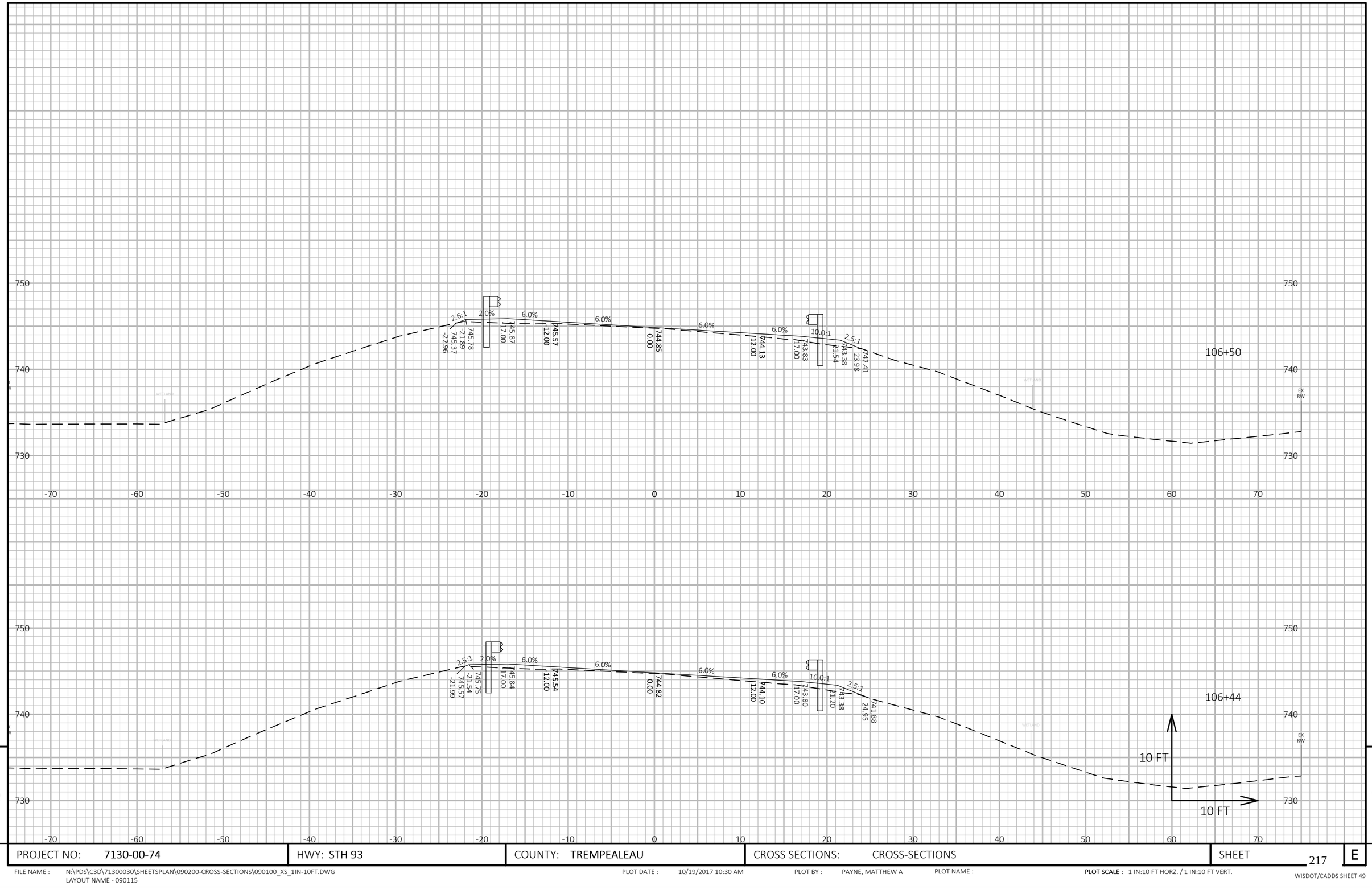
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 216	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090114

PLOT DATE : 10/19/2017 10:29 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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

WISDOT/CADDS SHEET 49

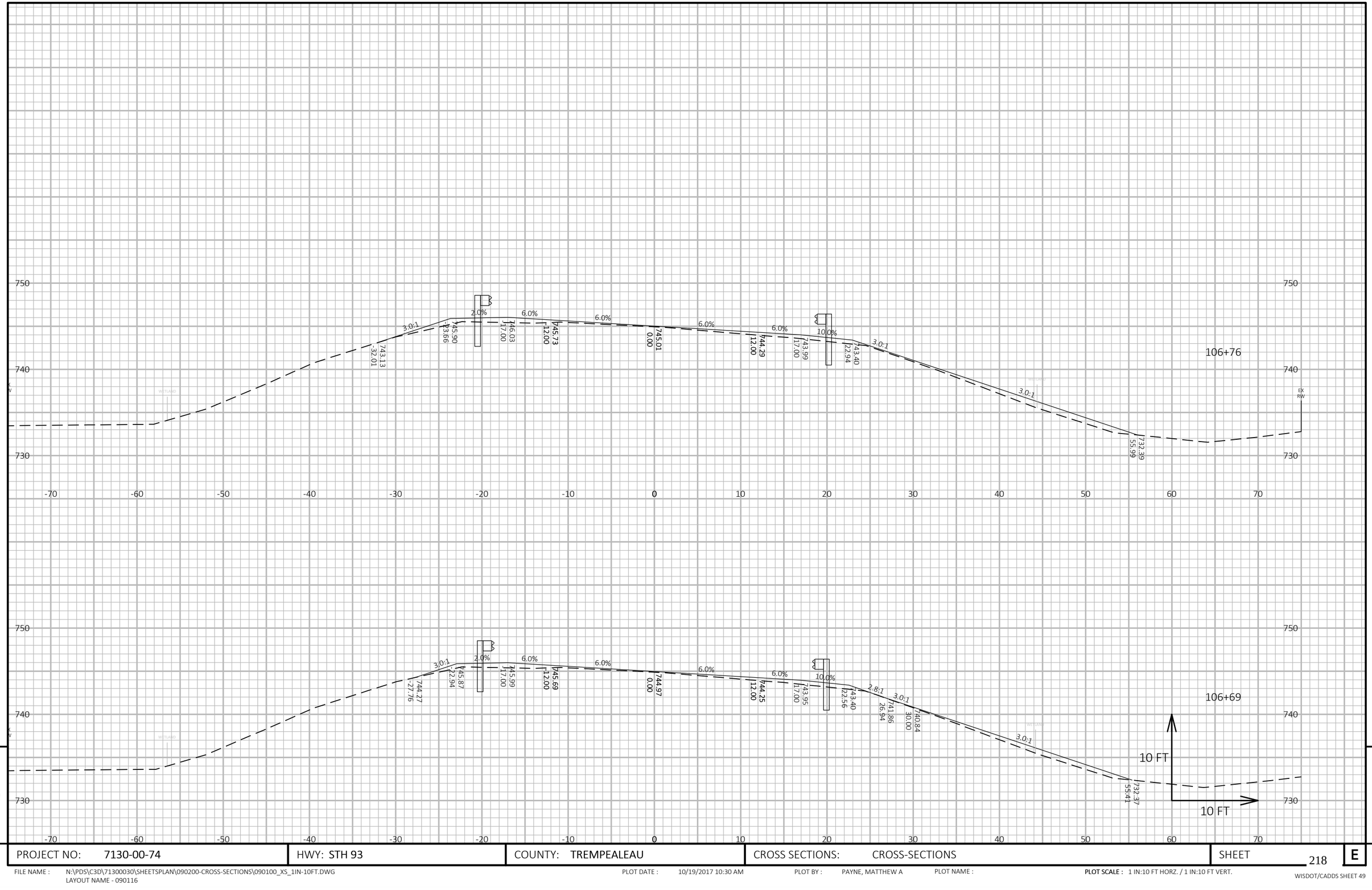


PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 217	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090115

PLOT DATE : 10/19/2017 10:30 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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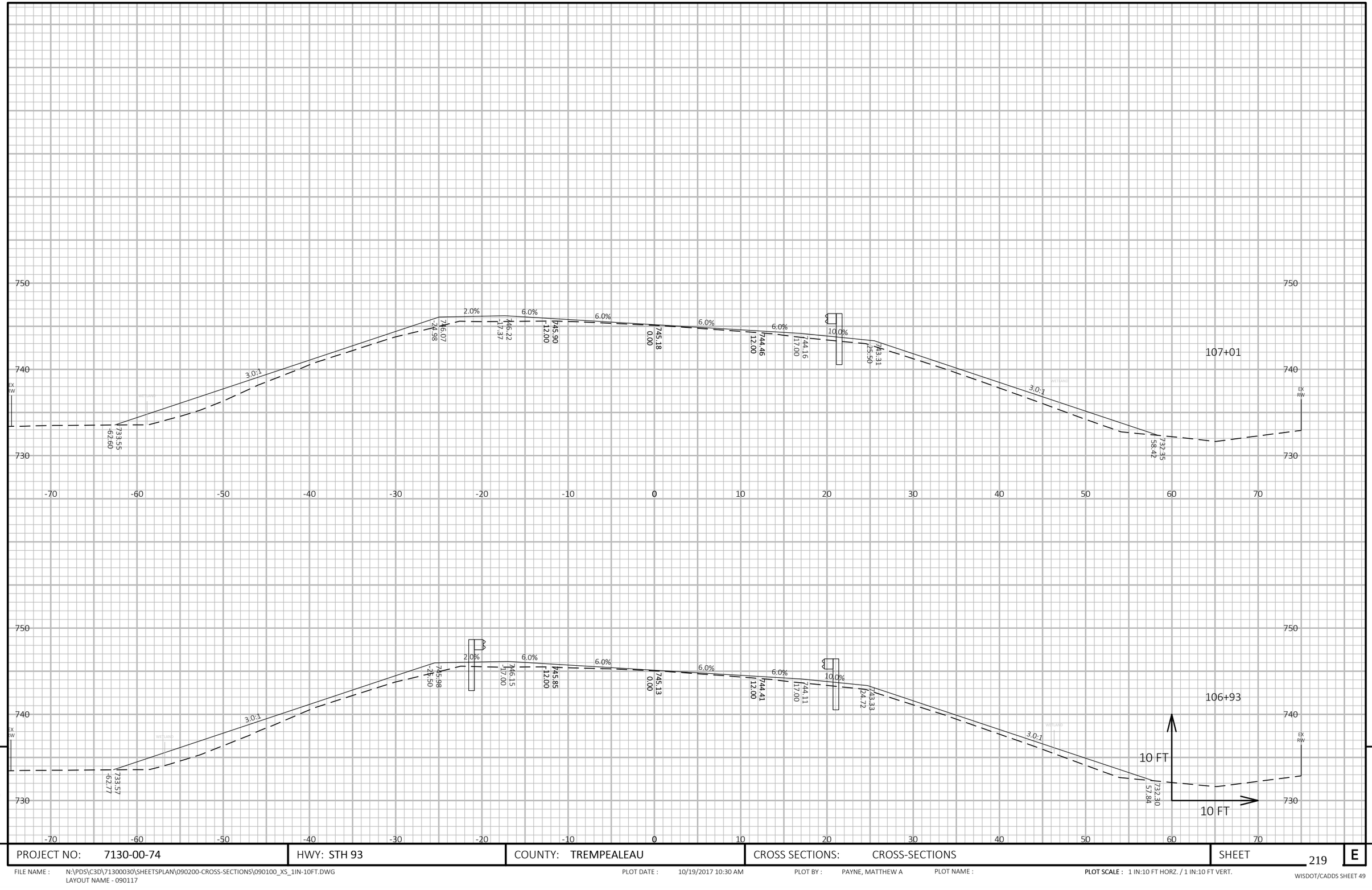
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 218	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090116

PLOT DATE : 10/19/2017 10:30 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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

WISDOT/CADDS SHEET 49



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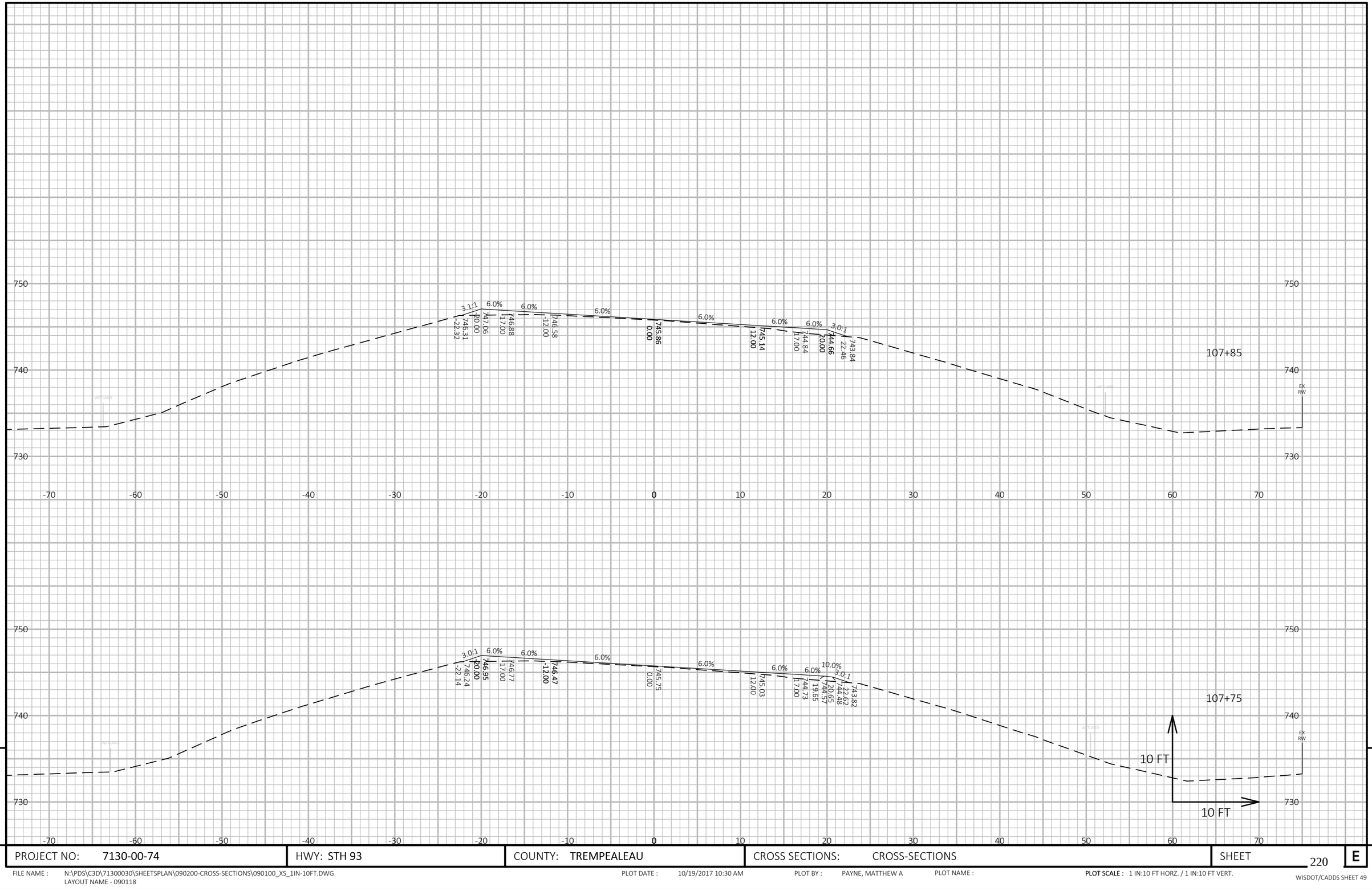
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 219	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090117

PLOT DATE : 10/19/2017 10:30 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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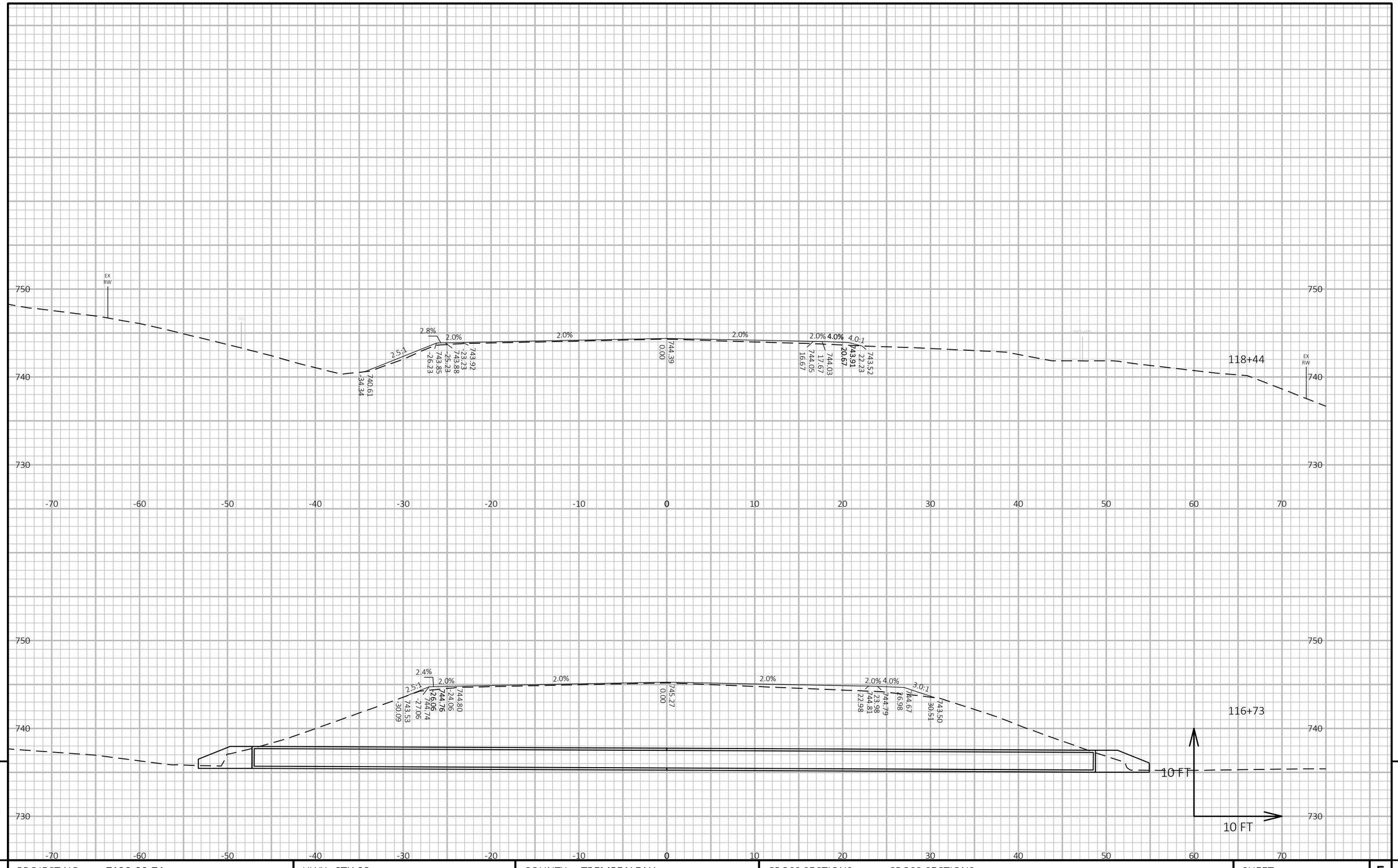
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 220	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090118

PLOT DATE : 10/19/2017 10:30 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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

WISDOT/CADDS SHEET 49



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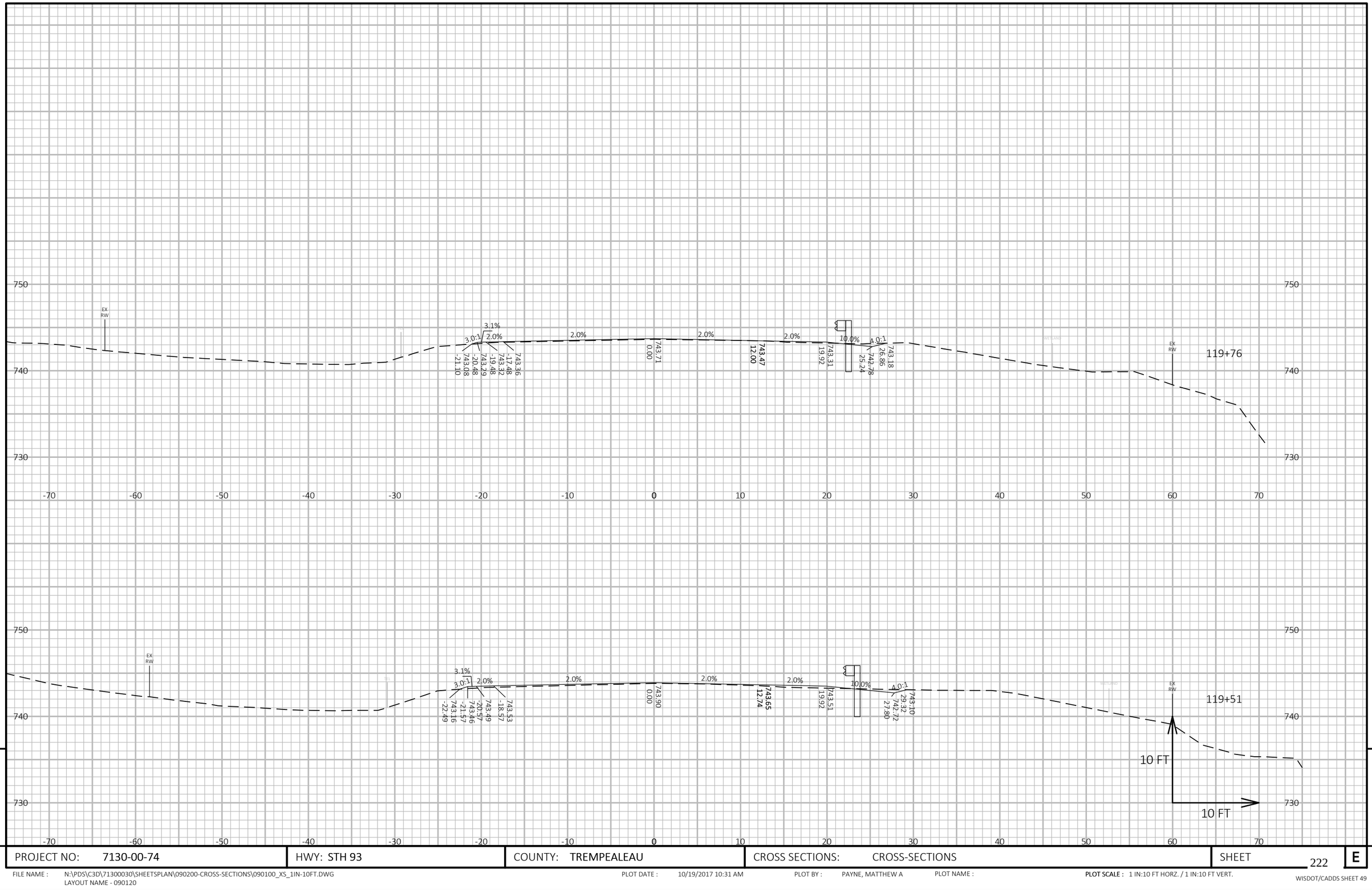
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 221	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090119

PLOT DATE : 10/19/2017 10:31 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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

WISDOT/CADDS SHEET 49



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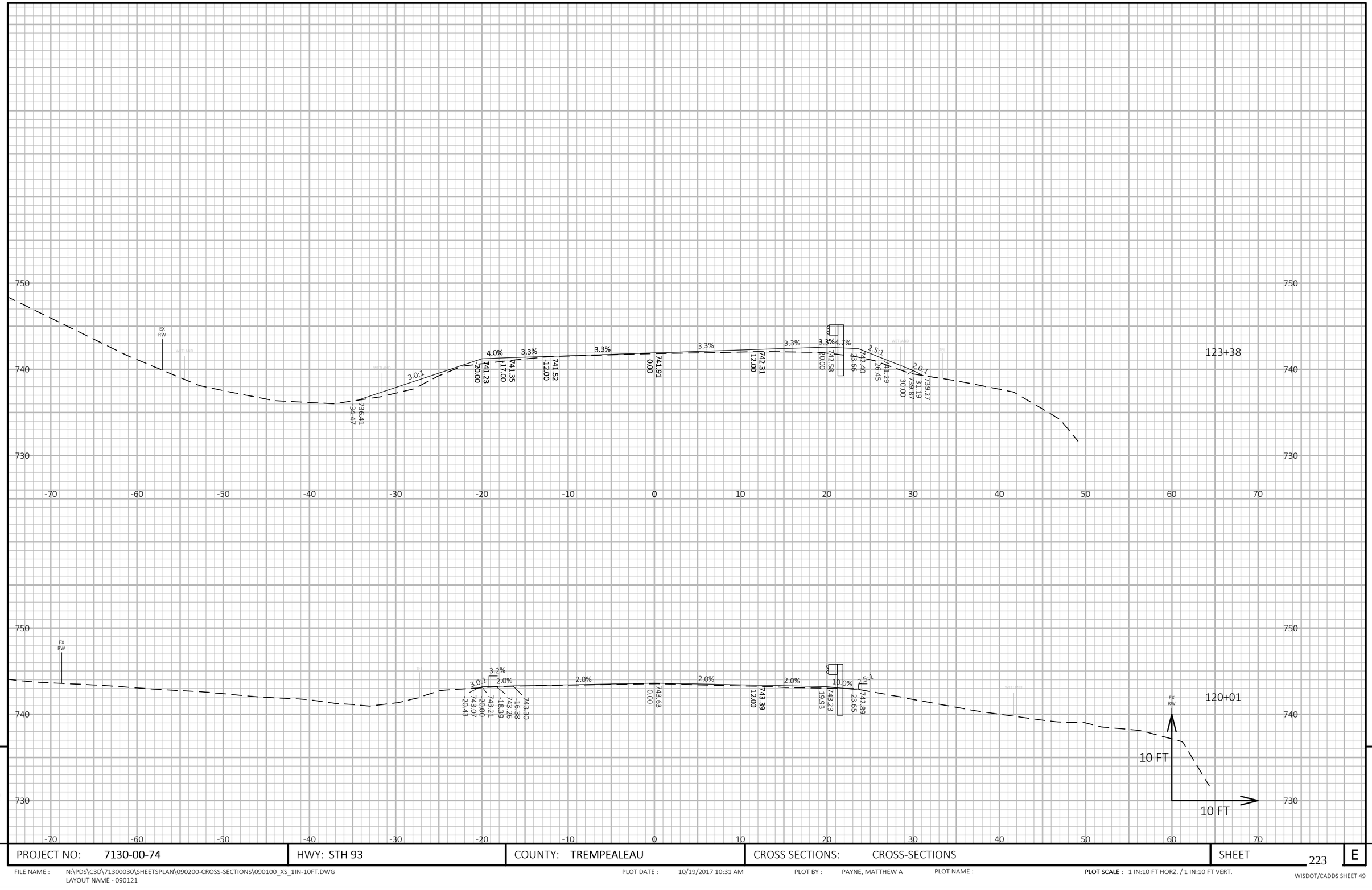
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 222	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090120

PLOT DATE : 10/19/2017 10:31 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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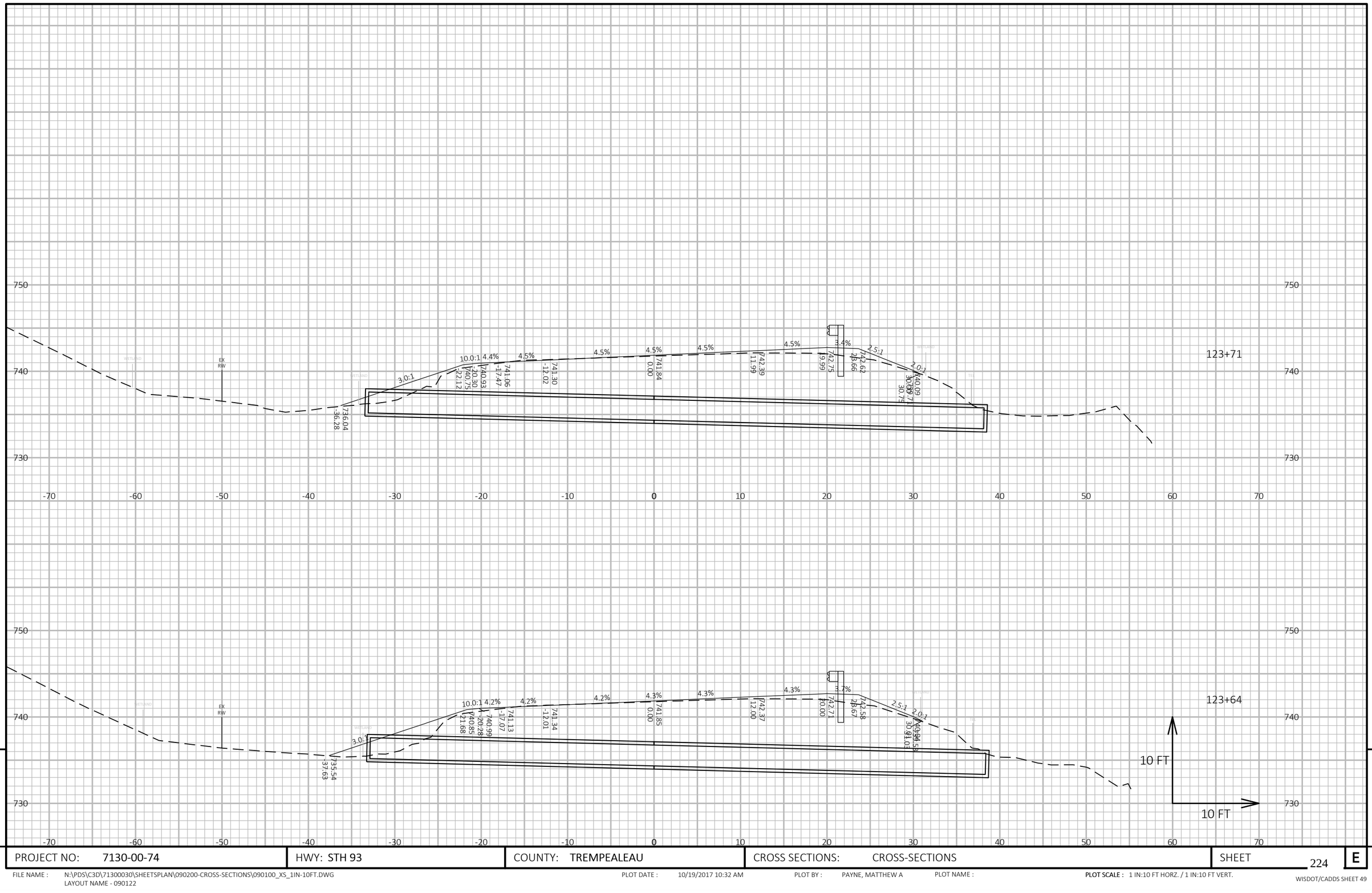
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 223	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090121

PLOT DATE : 10/19/2017 10:31 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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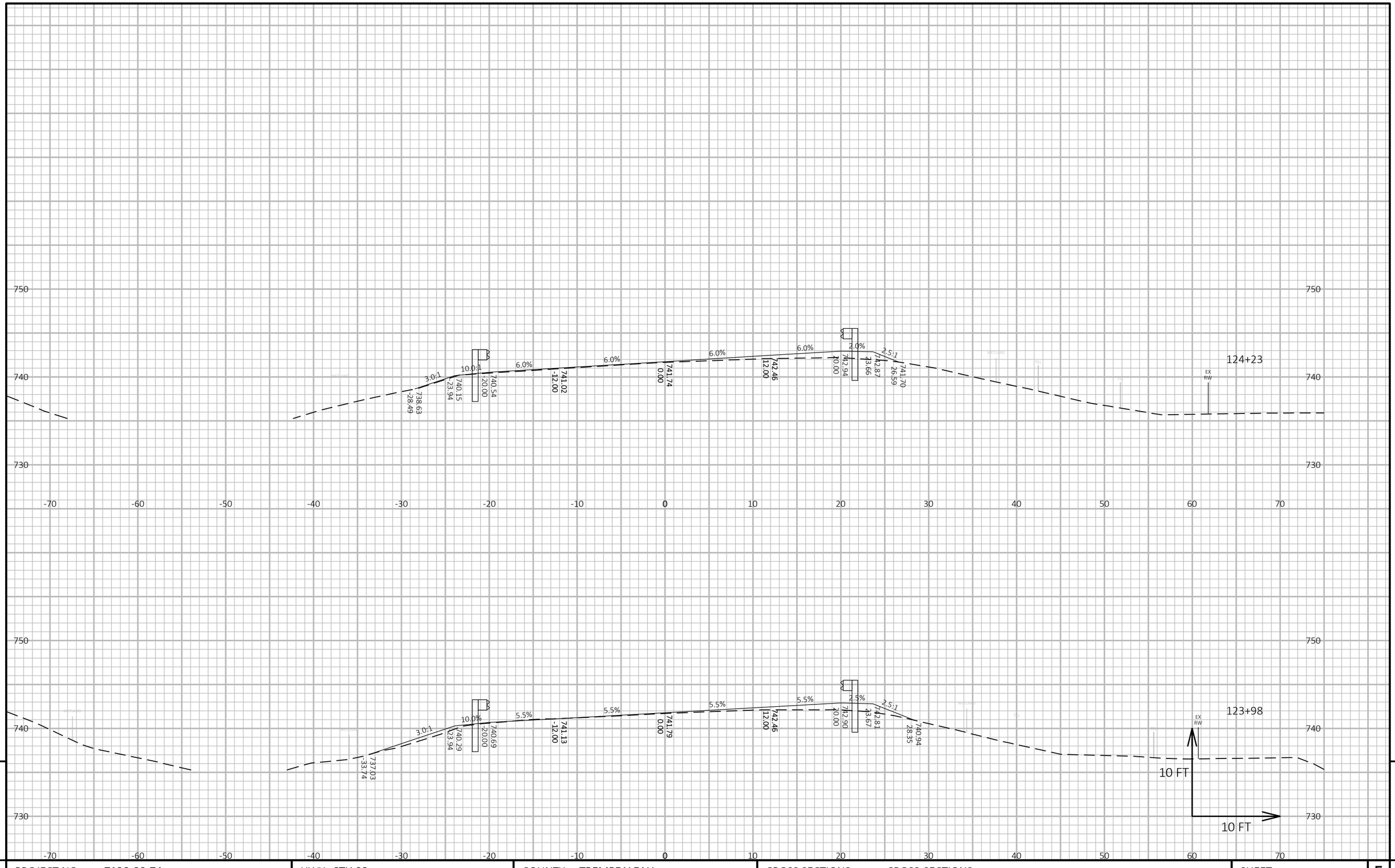
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 224	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090122

PLOT DATE : 10/19/2017 10:32 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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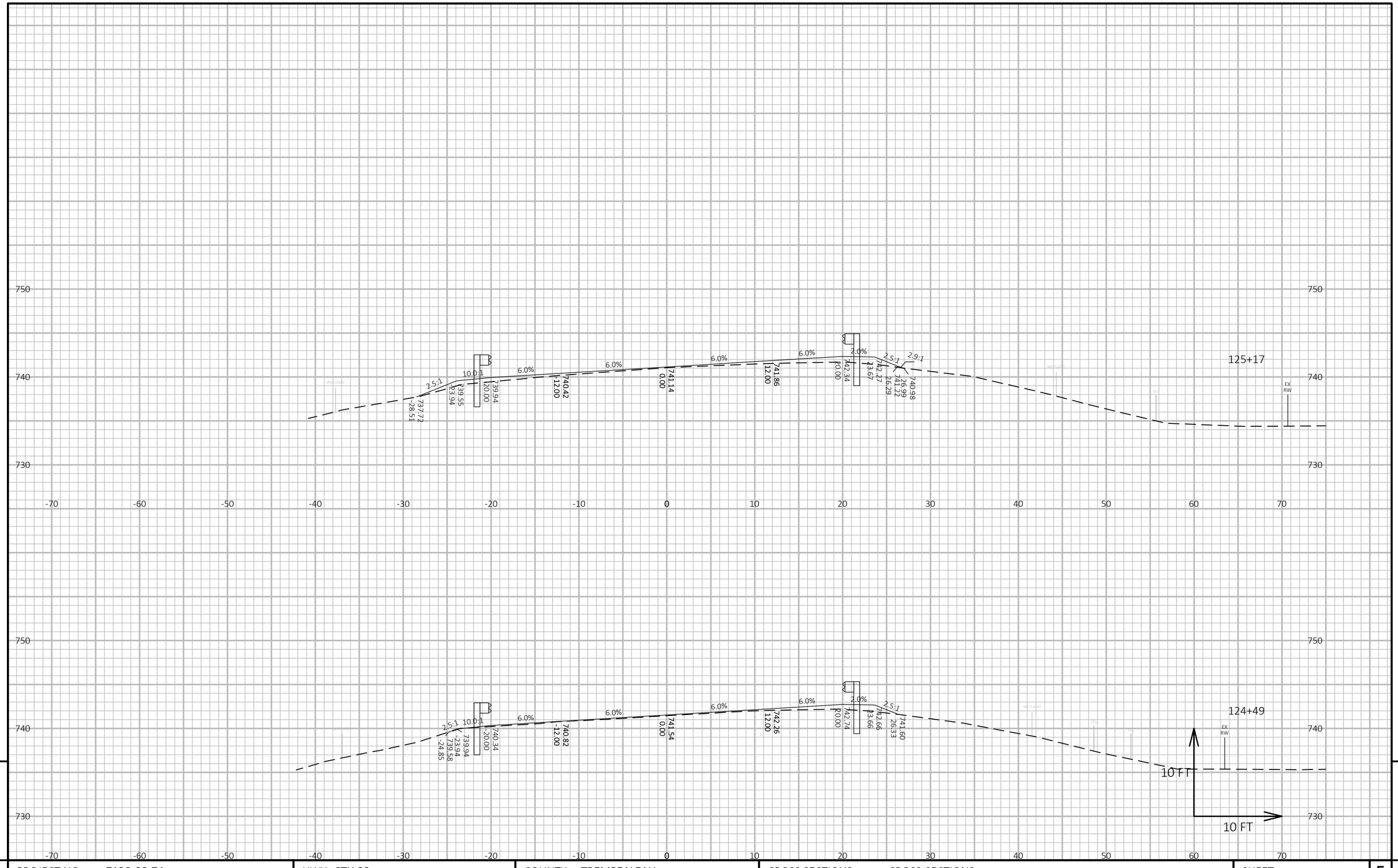
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 225	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090123

PLOT DATE : 10/19/2017 10:32 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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



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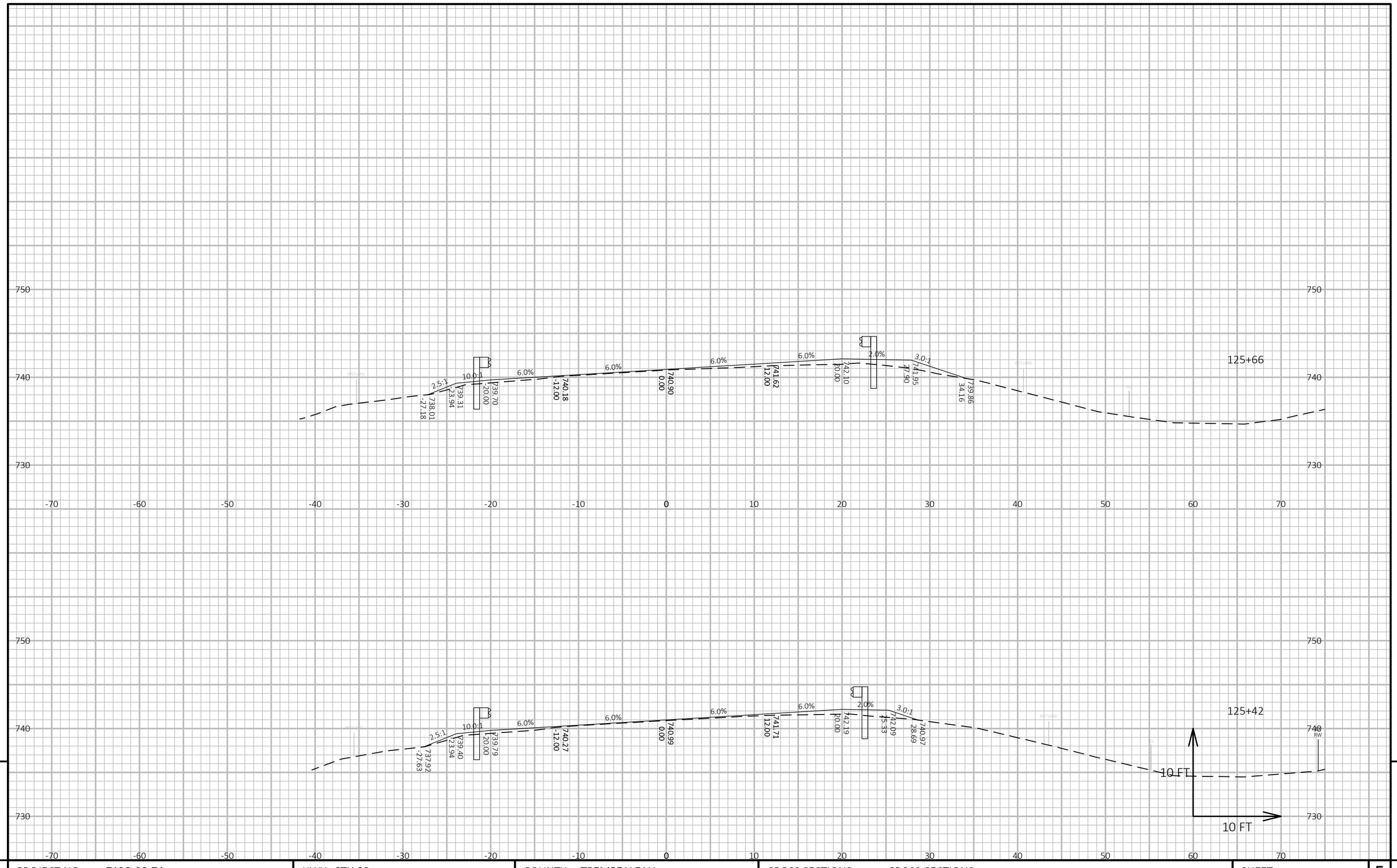
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 226	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090124

PLOT DATE : 10/19/2017 10:32 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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

WISDOT/CADDS SHEET 49



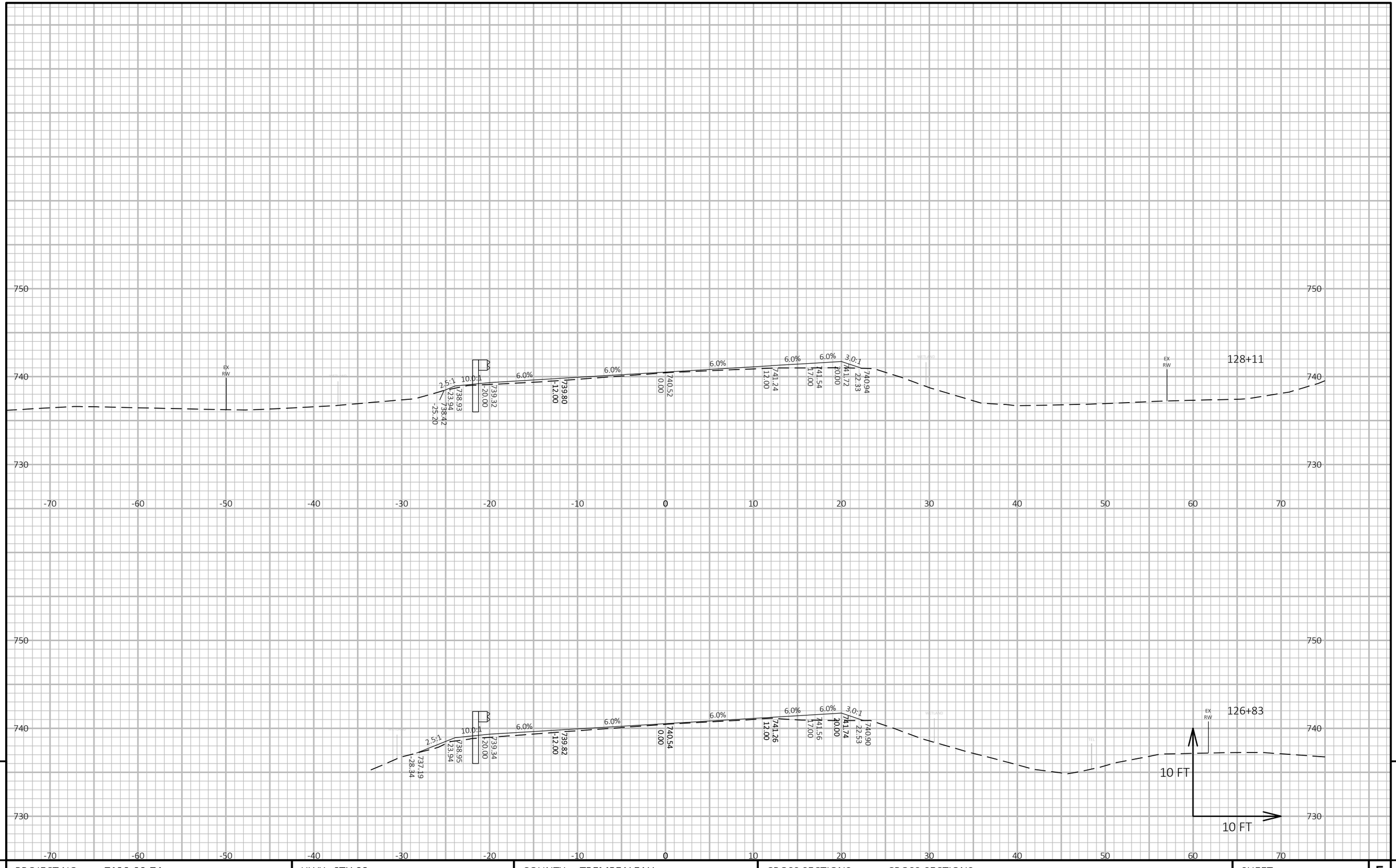
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 227	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090125

PLOT DATE : 10/19/2017 10:33 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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

WISDOT/CADDS SHEET 49



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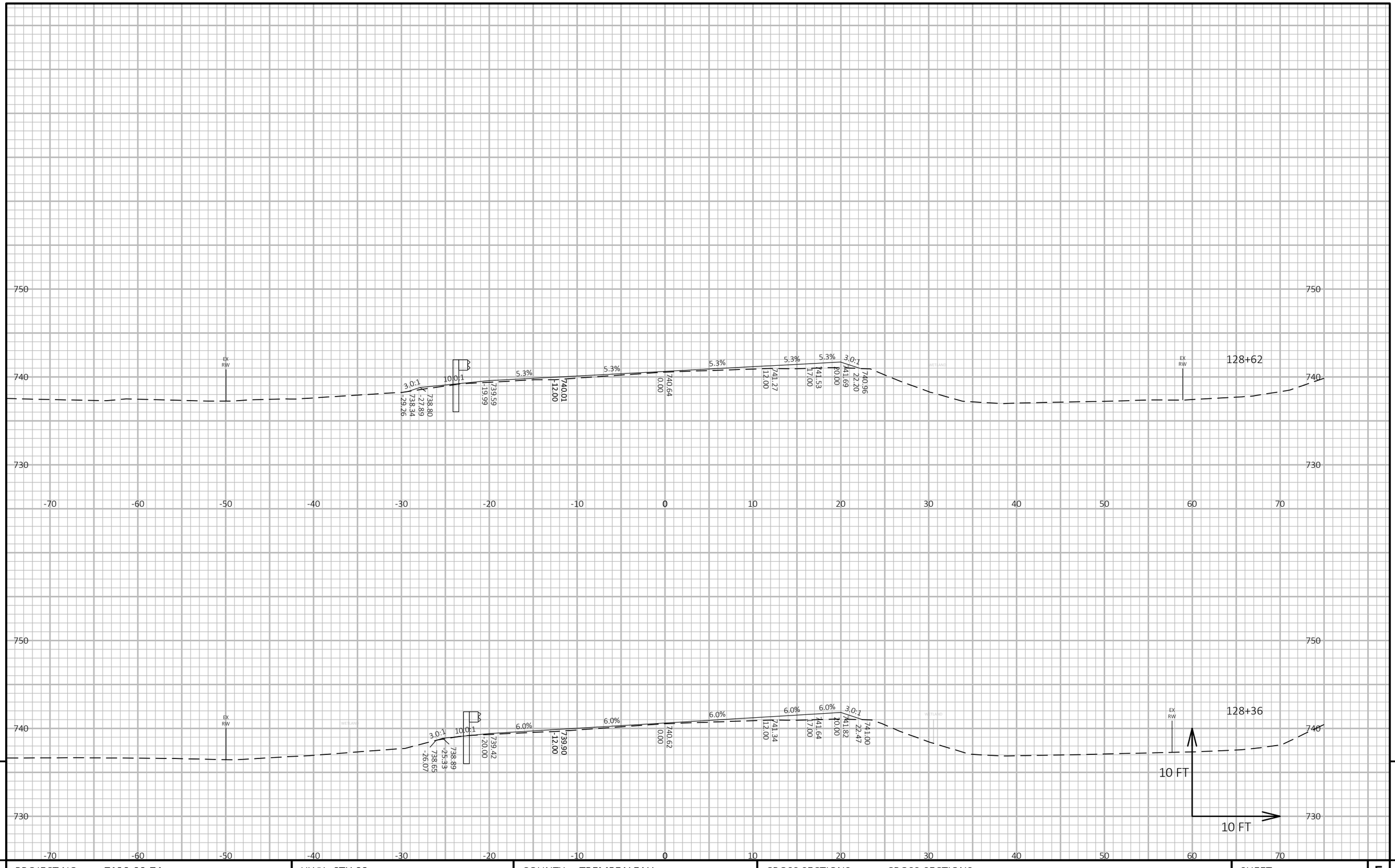
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 228	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090126

PLOT DATE : 10/19/2017 10:33 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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

WISDOT/CADDS SHEET 49



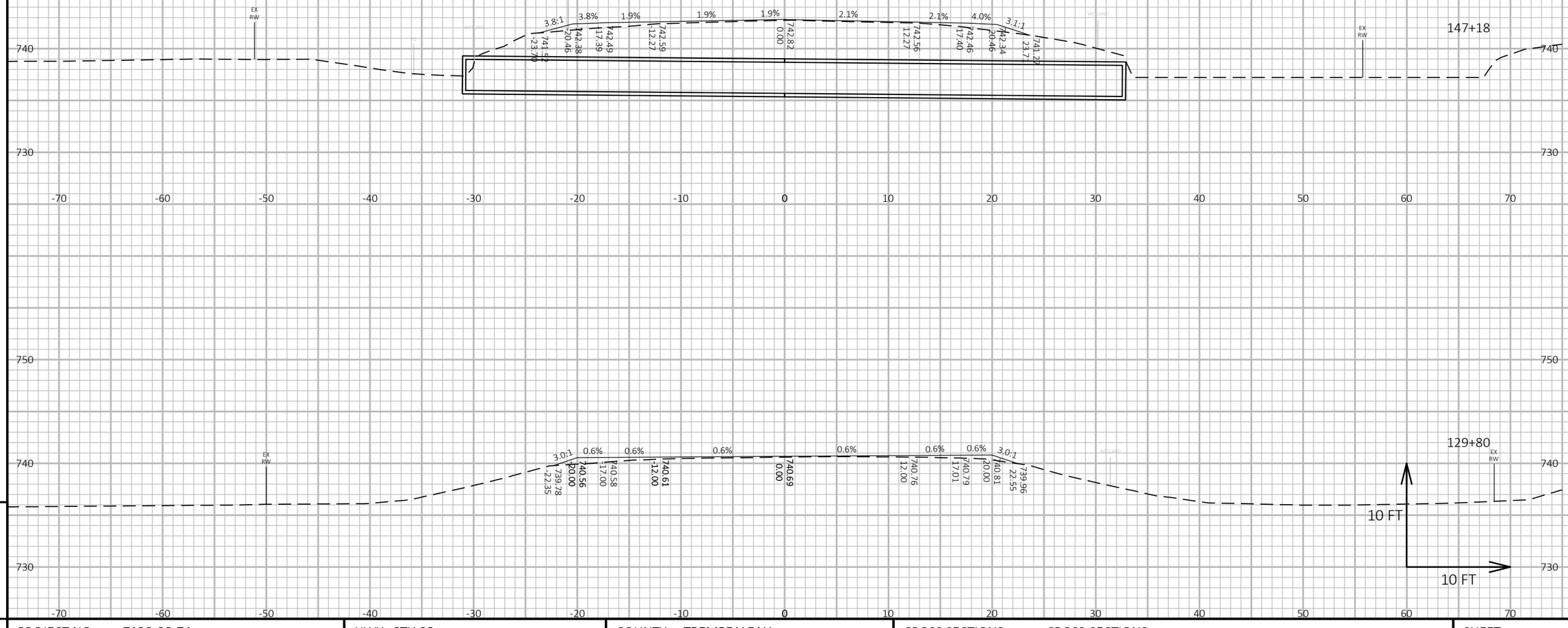
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 229	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090127

PLOT DATE : 10/19/2017 10:33 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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

WISDOT/CADDS SHEET 49



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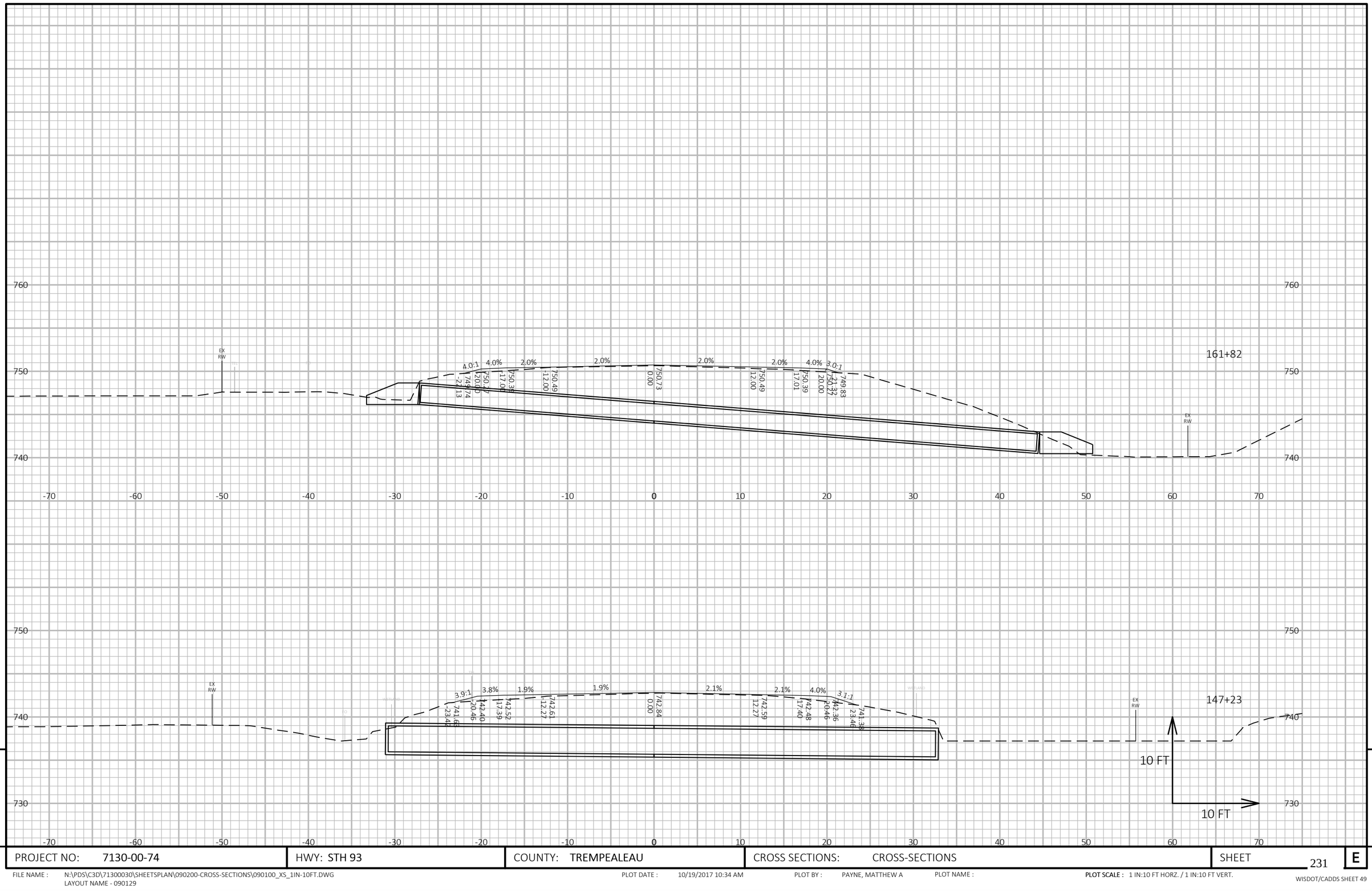
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 230	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090128

PLOT DATE : 10/19/2017 10:34 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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



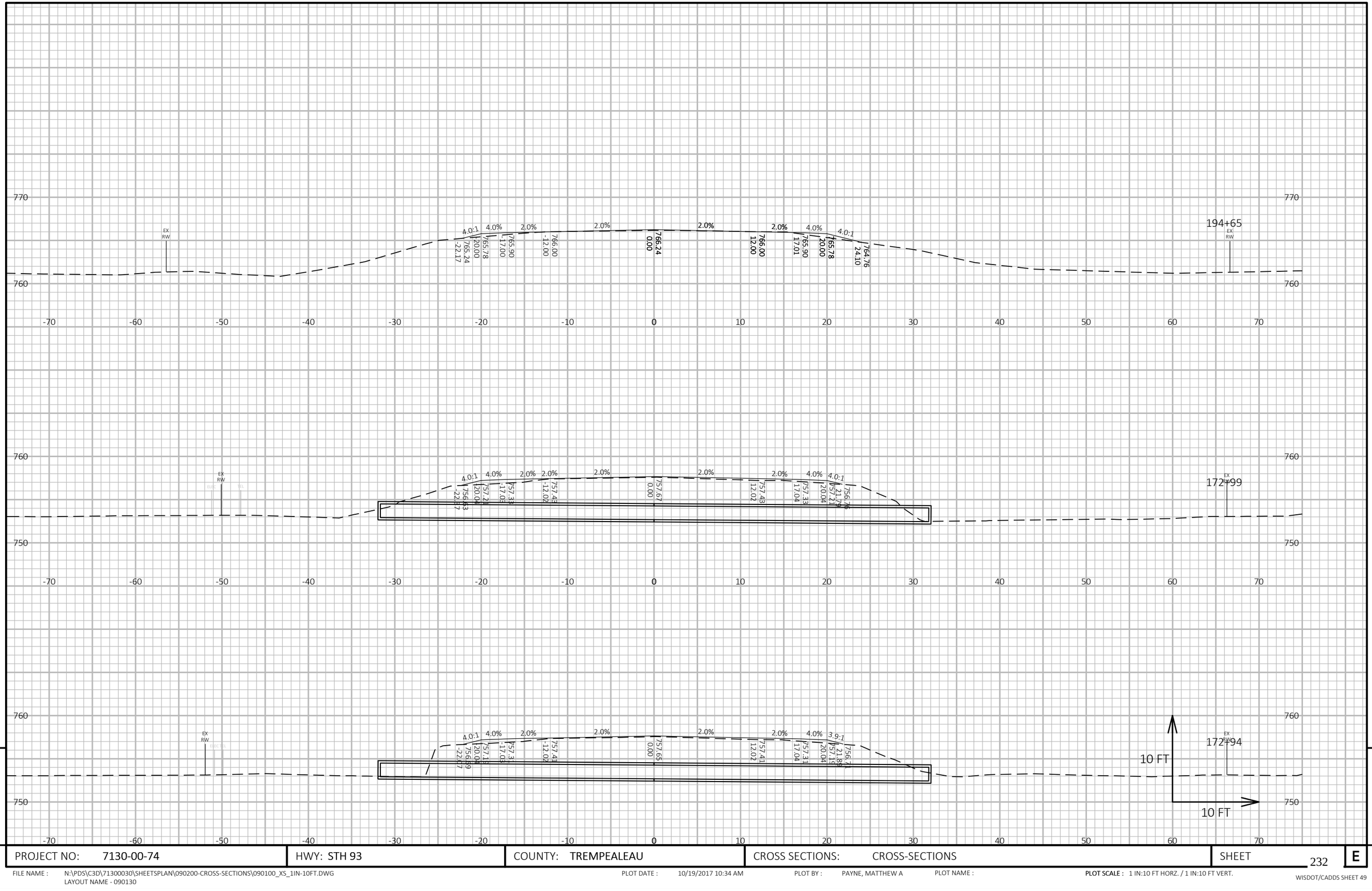
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 231	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090129

PLOT DATE : 10/19/2017 10:34 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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

WISDOT/CADDS SHEET 49



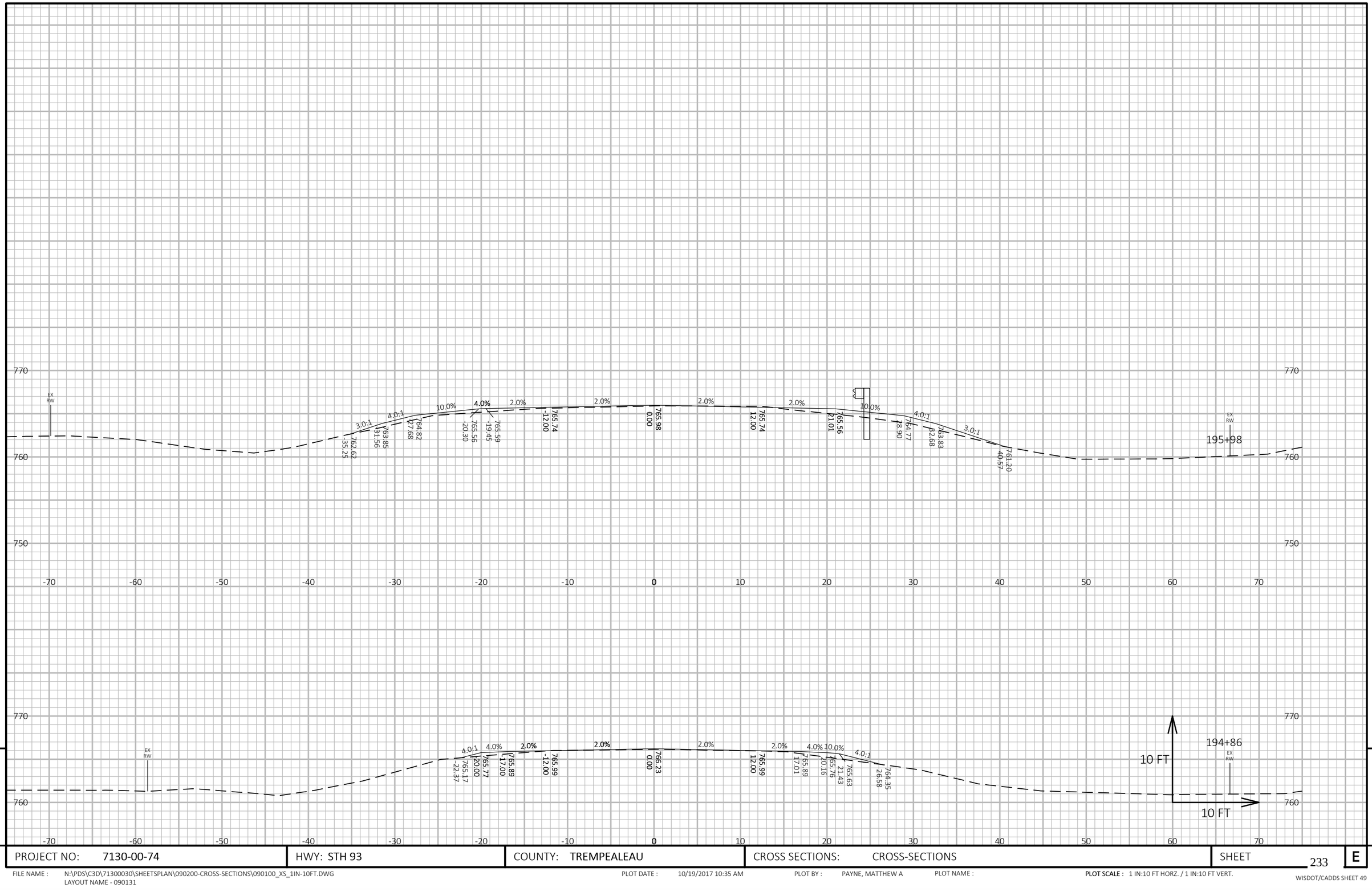
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 232	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090130

PLOT DATE : 10/19/2017 10:34 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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

WISDOT/CADDS SHEET 49

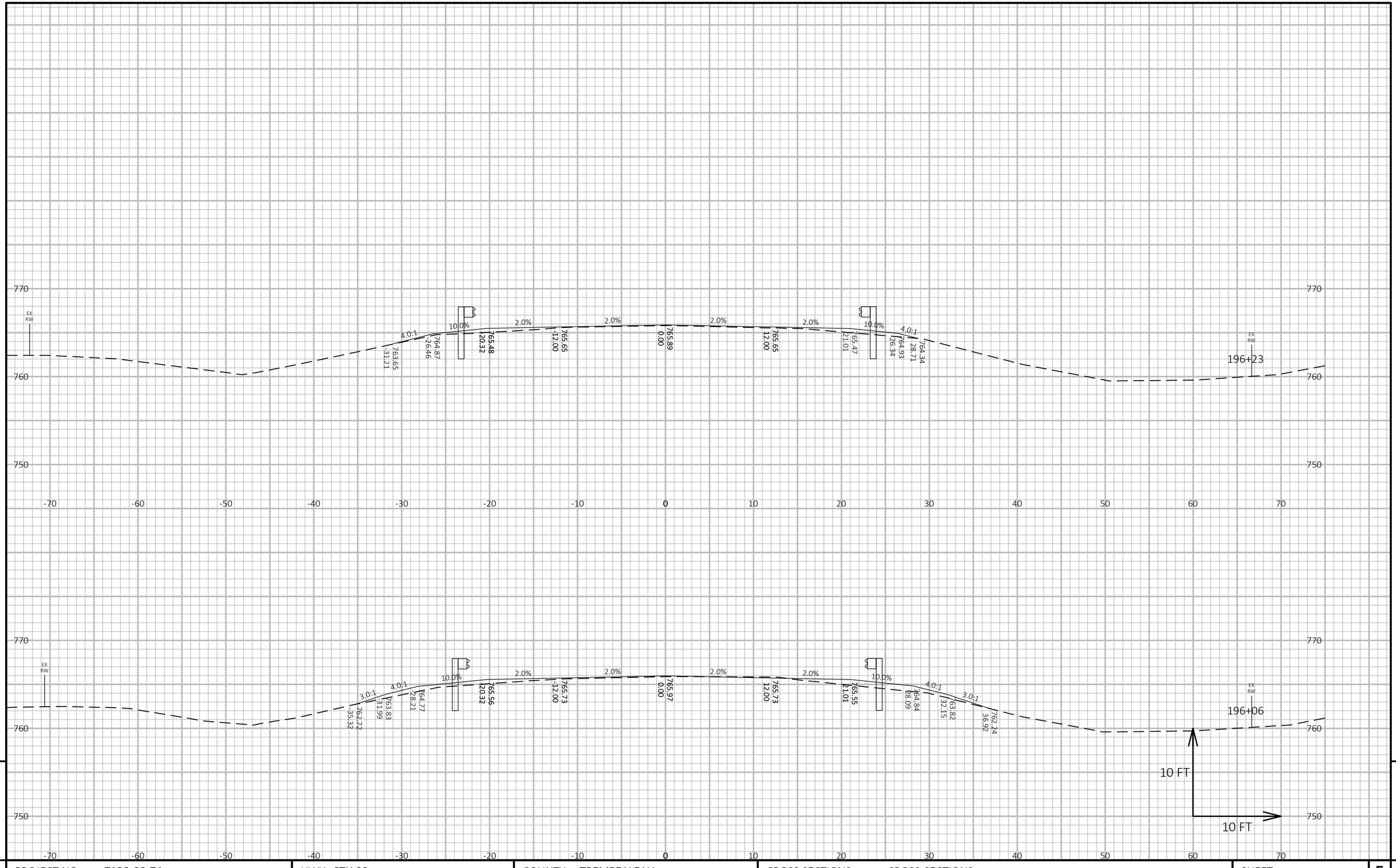


PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 233 E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090131

PLOT DATE : 10/19/2017 10:35 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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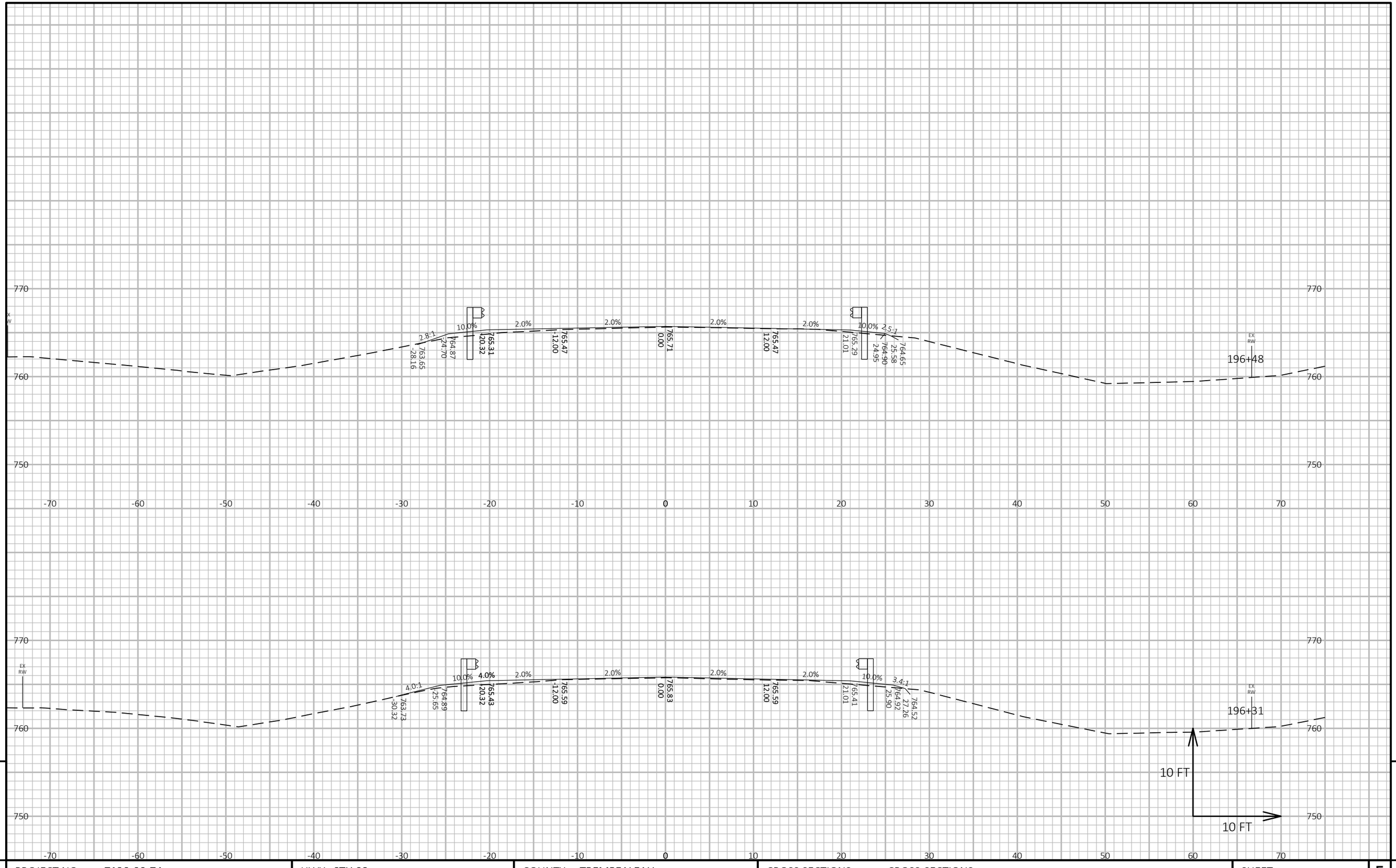
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 234	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090132

PLOT DATE : 10/19/2017 10:35 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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



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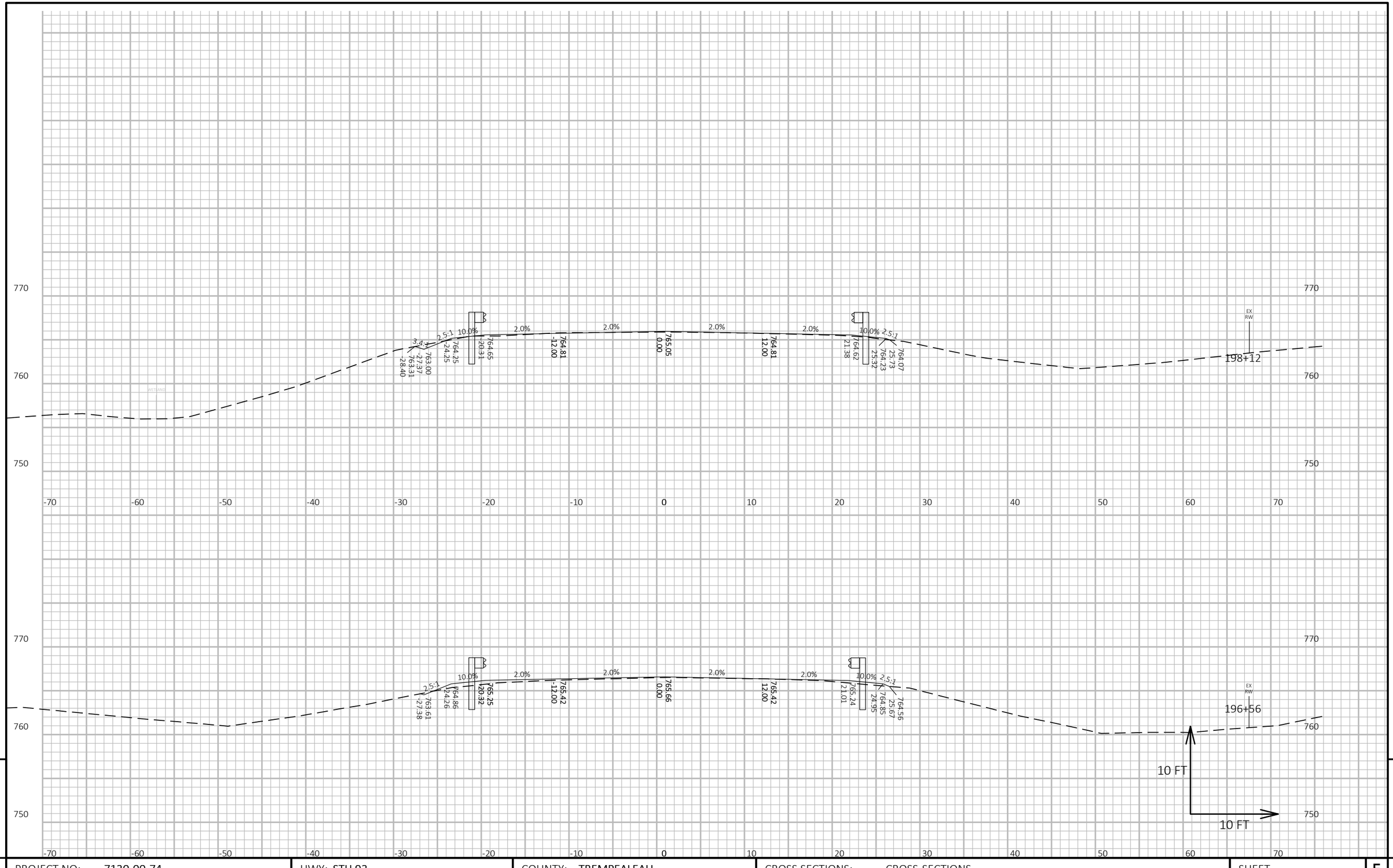
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 235	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090133

PLOT DATE : 10/19/2017 10:35 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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



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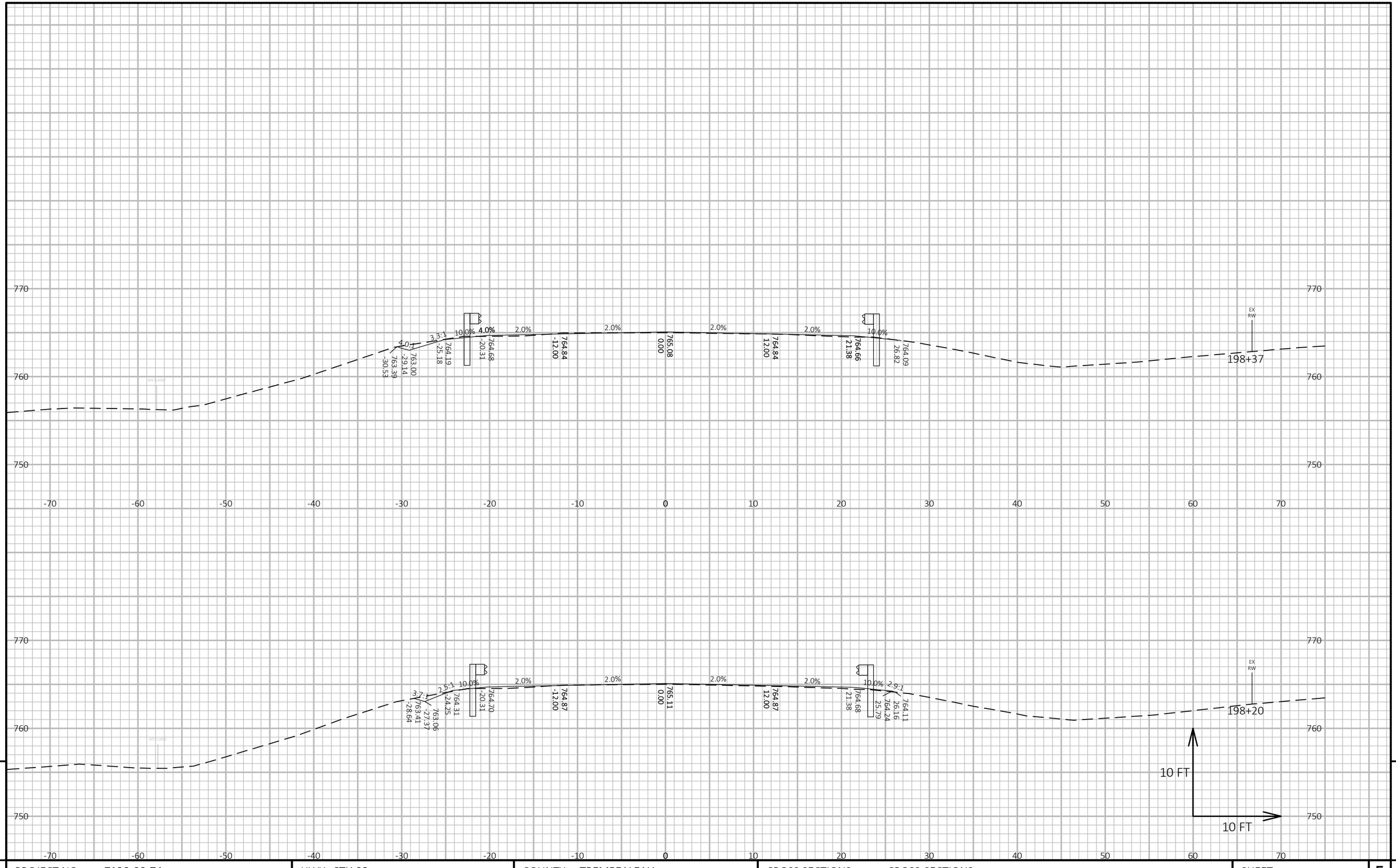
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 236	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090134

PLOT DATE : 10/19/2017 10:35 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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



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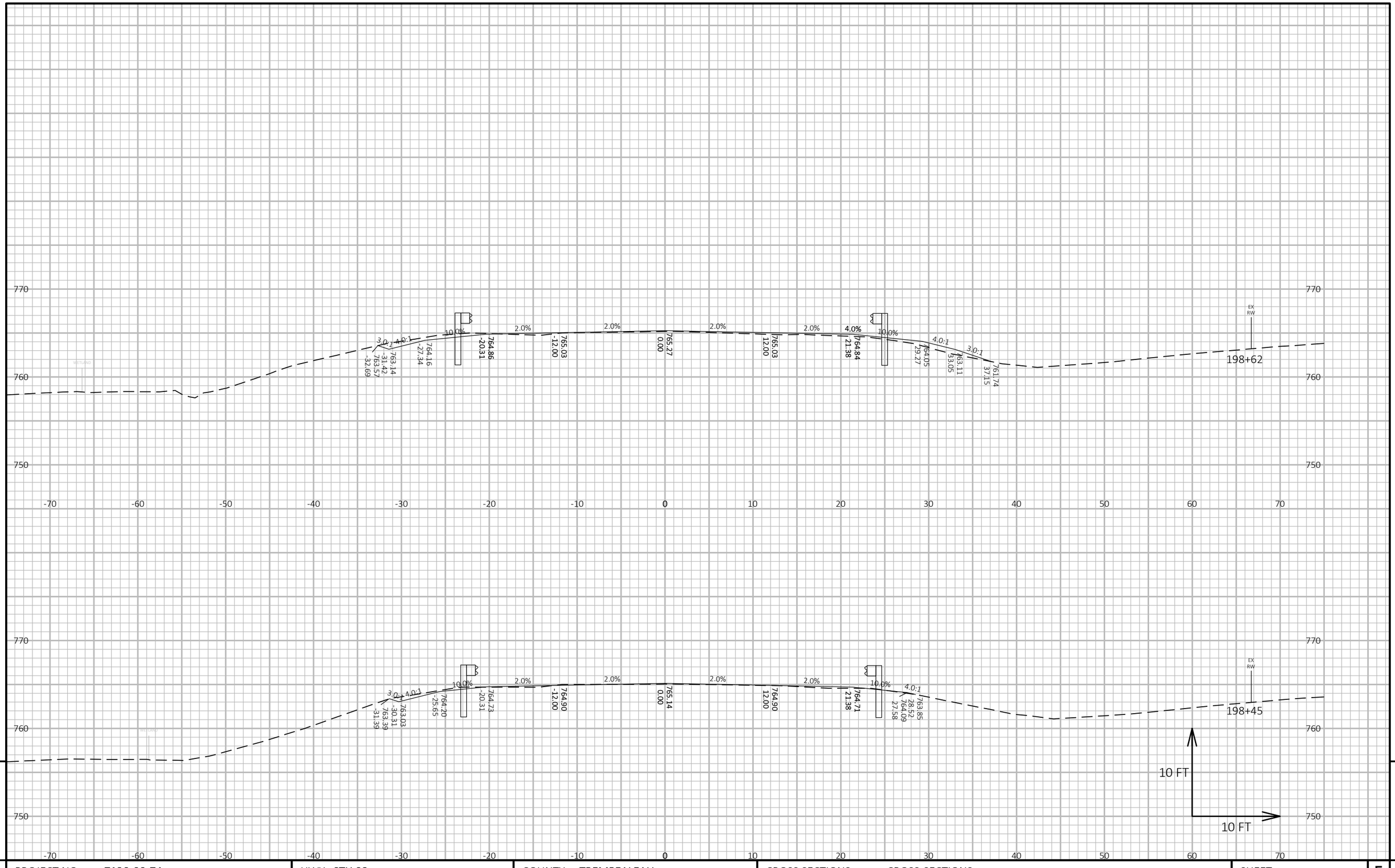
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 237	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090135

PLOT DATE : 10/19/2017 10:36 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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

WISDOT/CADDS SHEET 49



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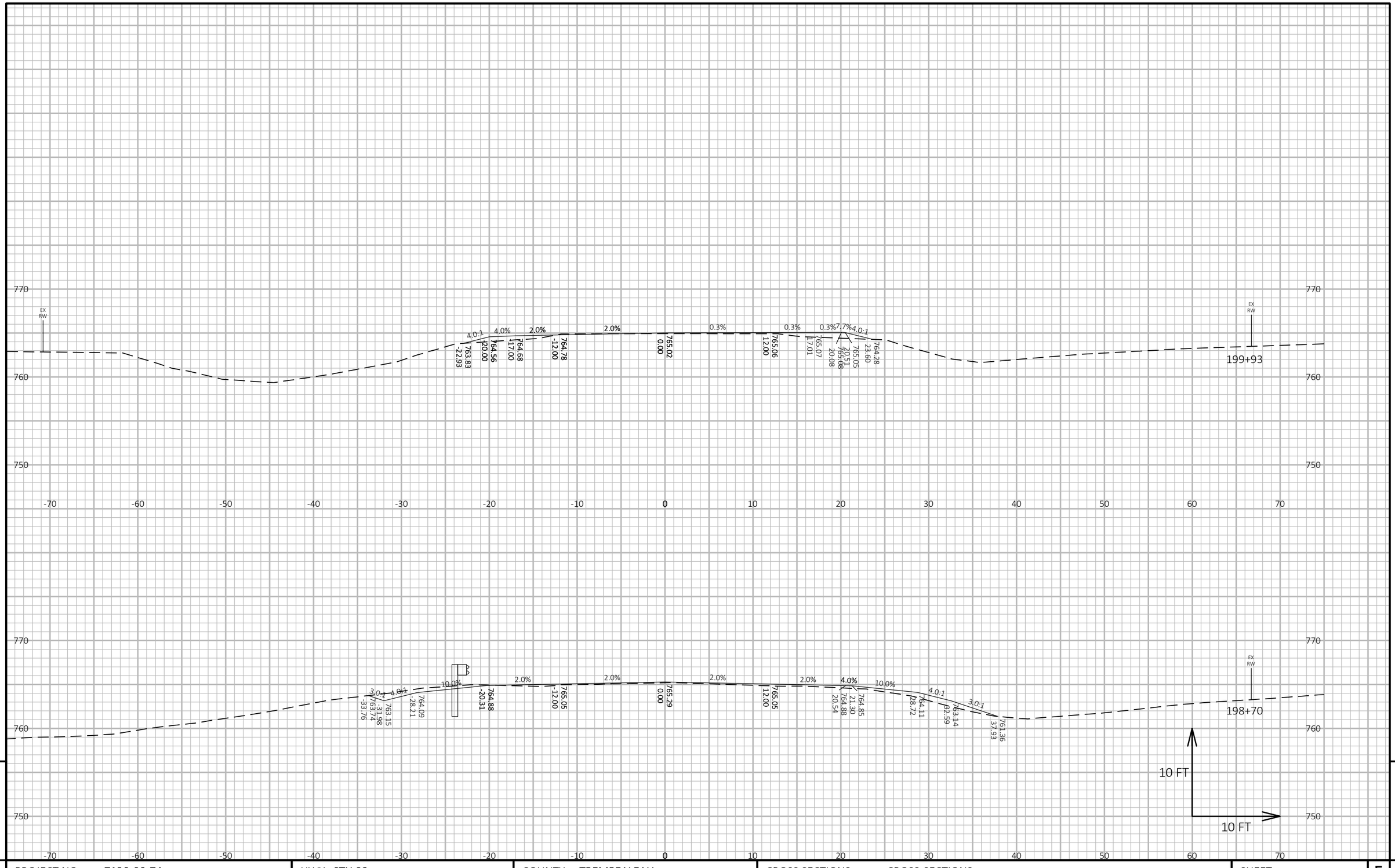
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 238	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090136

PLOT DATE : 10/19/2017 10:36 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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

WISDOT/CADDS SHEET 49



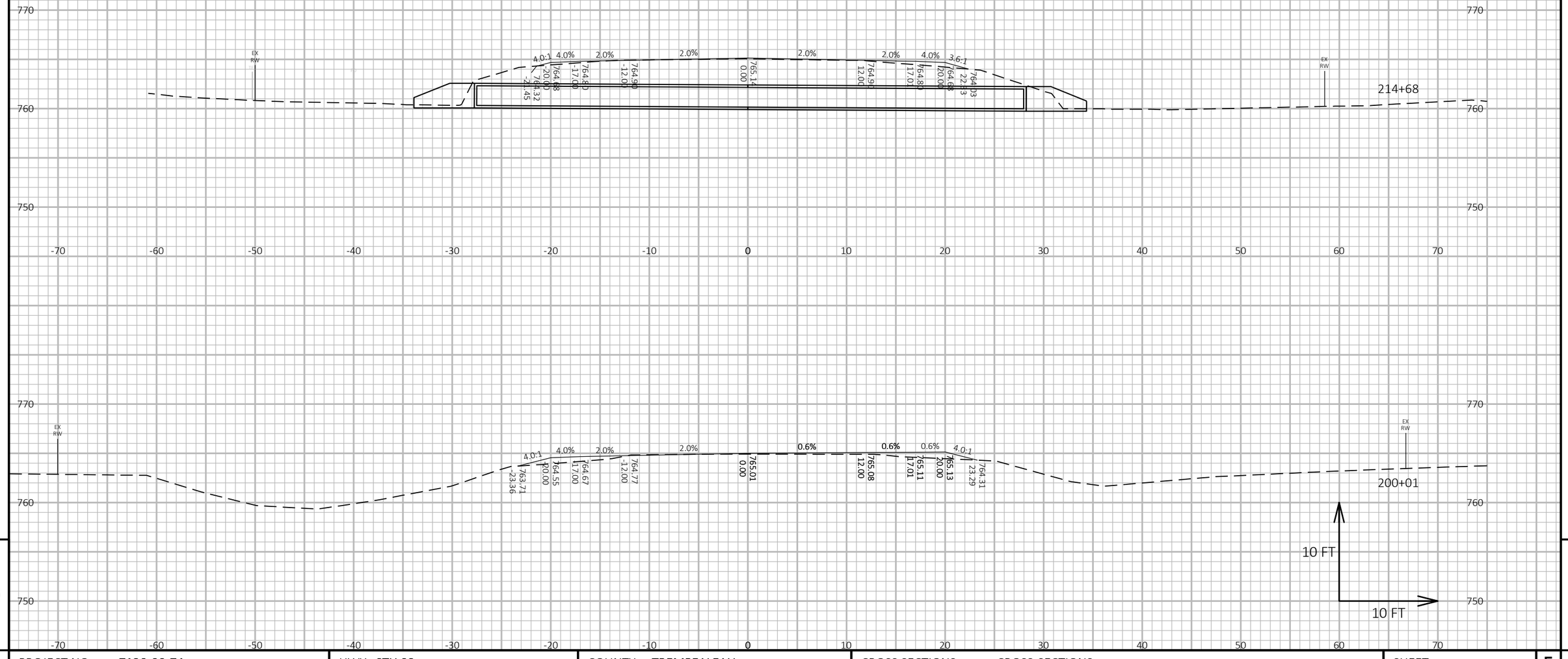
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 239	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090137

PLOT DATE : 10/19/2017 10:36 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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

WISDOT/CADDS SHEET 49



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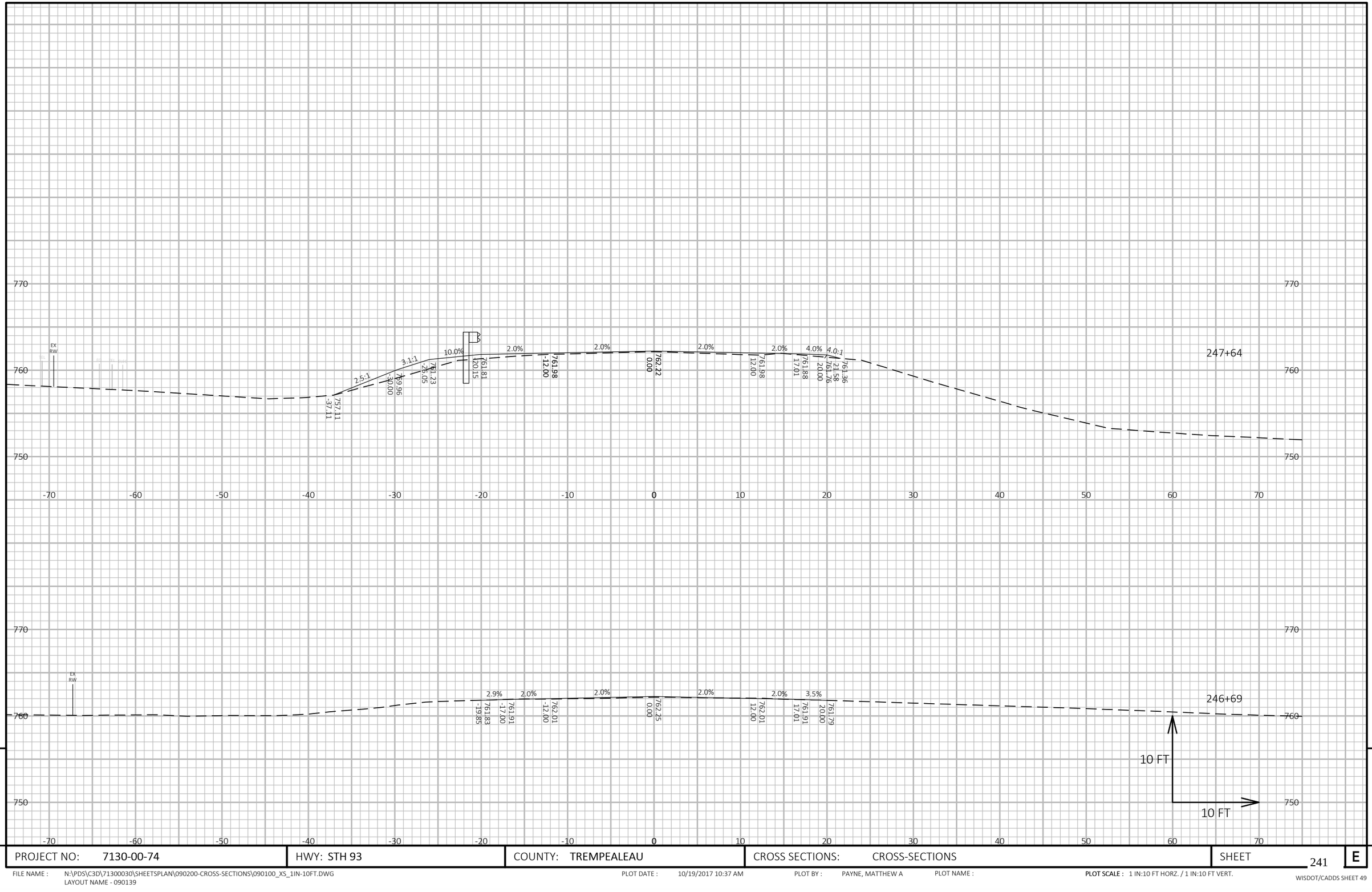
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 240	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090138

PLOT DATE : 10/19/2017 10:37 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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

WISDOT/CADDS SHEET 49

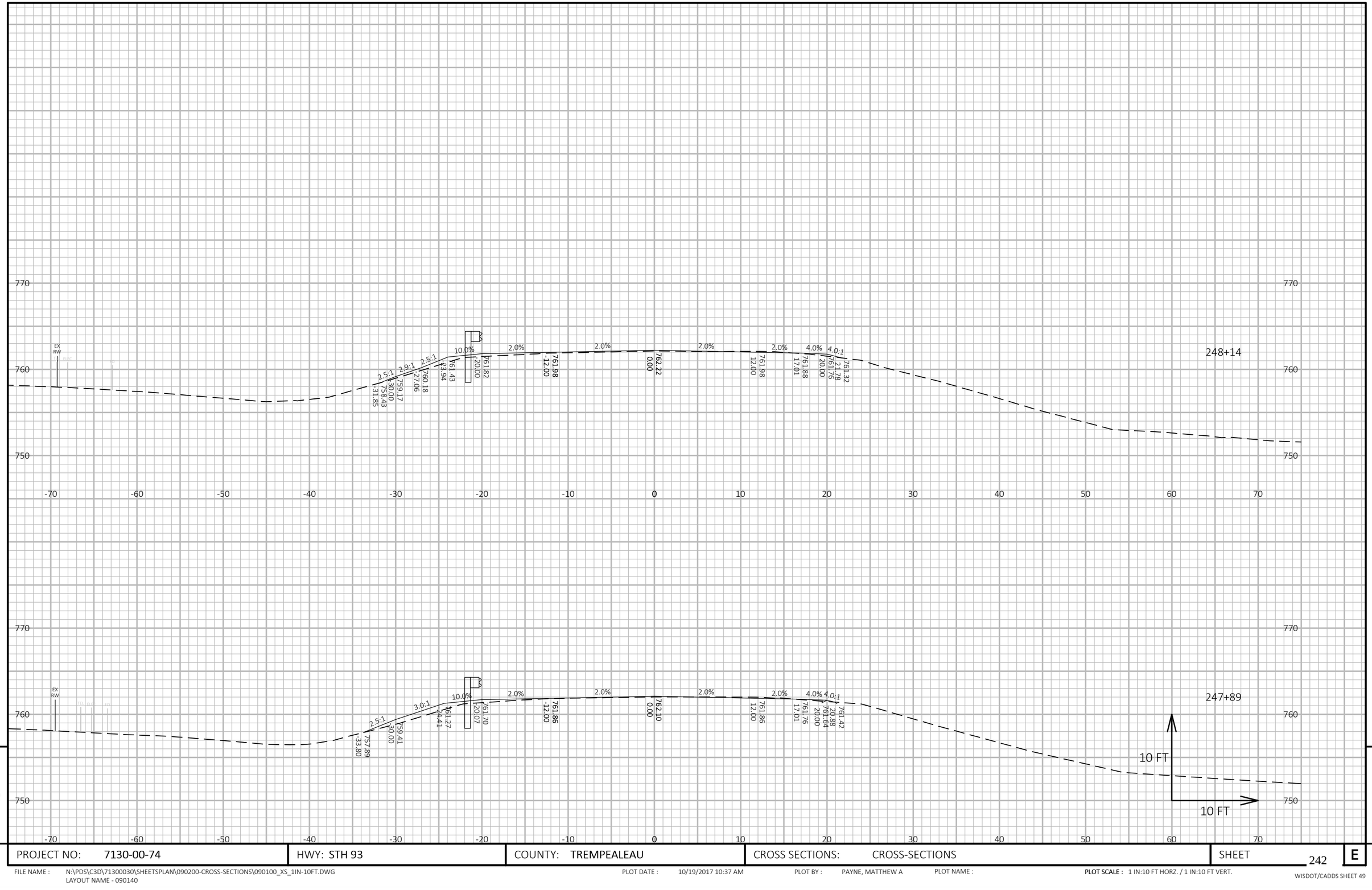


PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 241	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090139

PLOT DATE : 10/19/2017 10:37 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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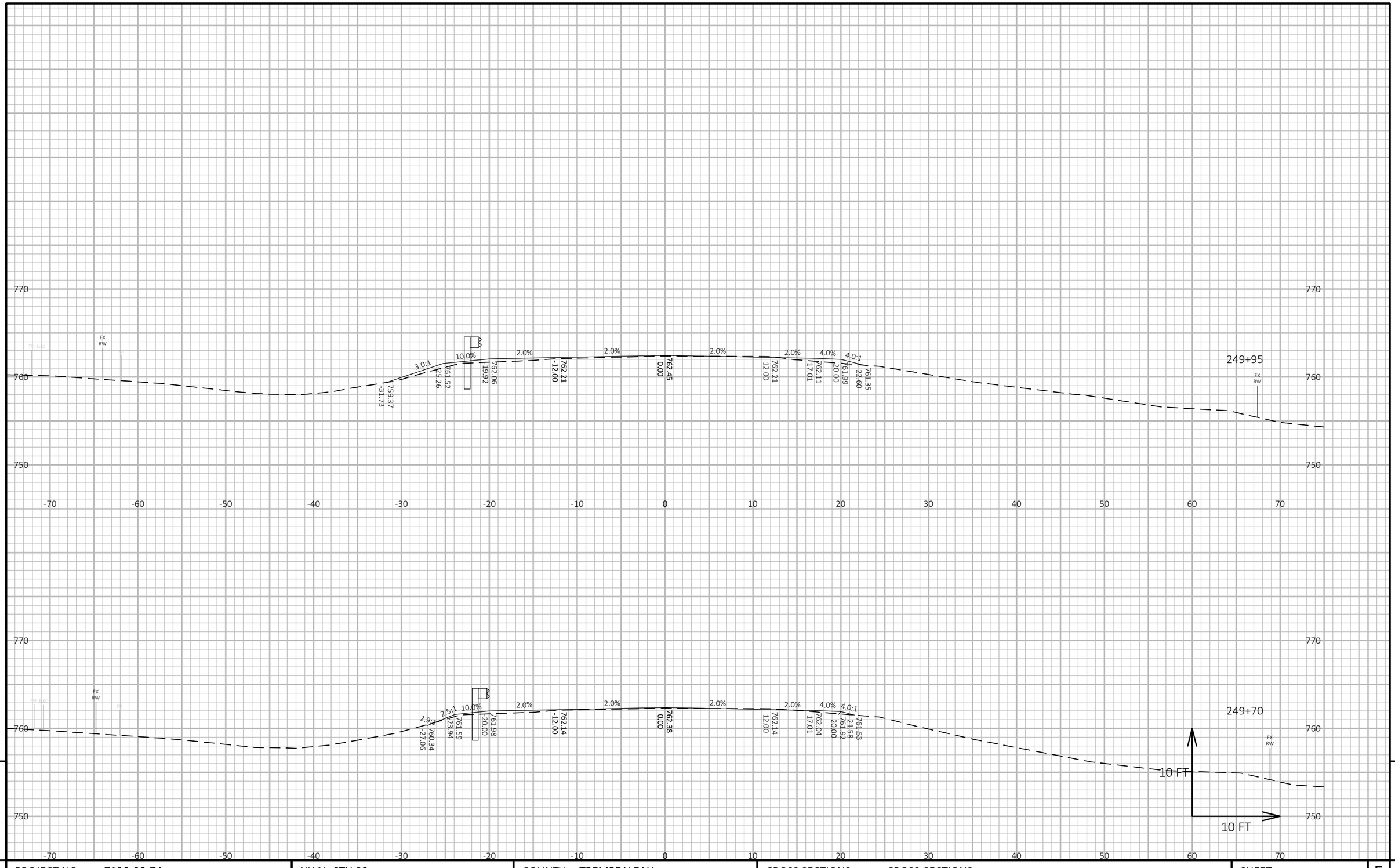
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 242	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090140

PLOT DATE : 10/19/2017 10:37 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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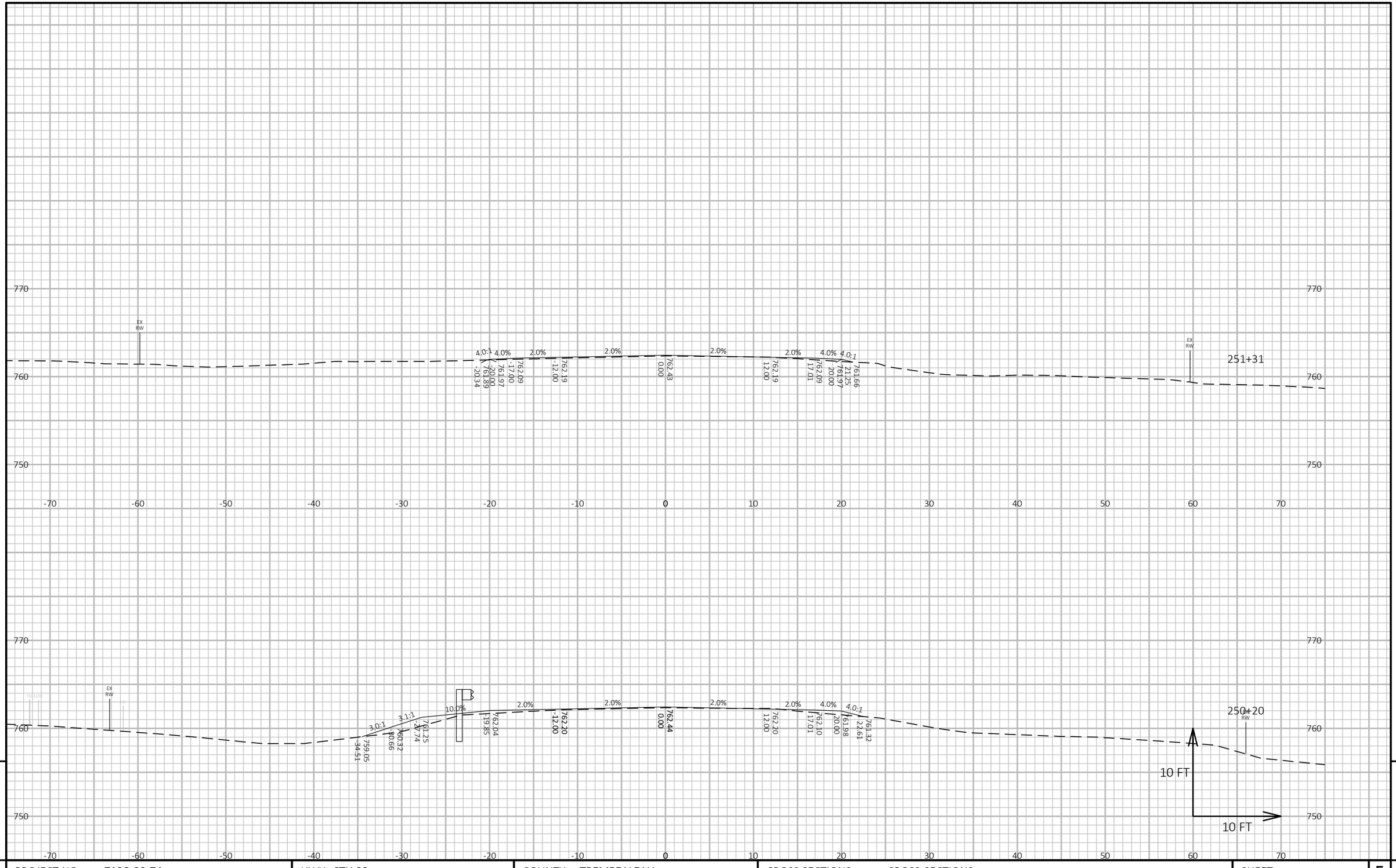
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 243	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090141

PLOT DATE : 10/19/2017 10:37 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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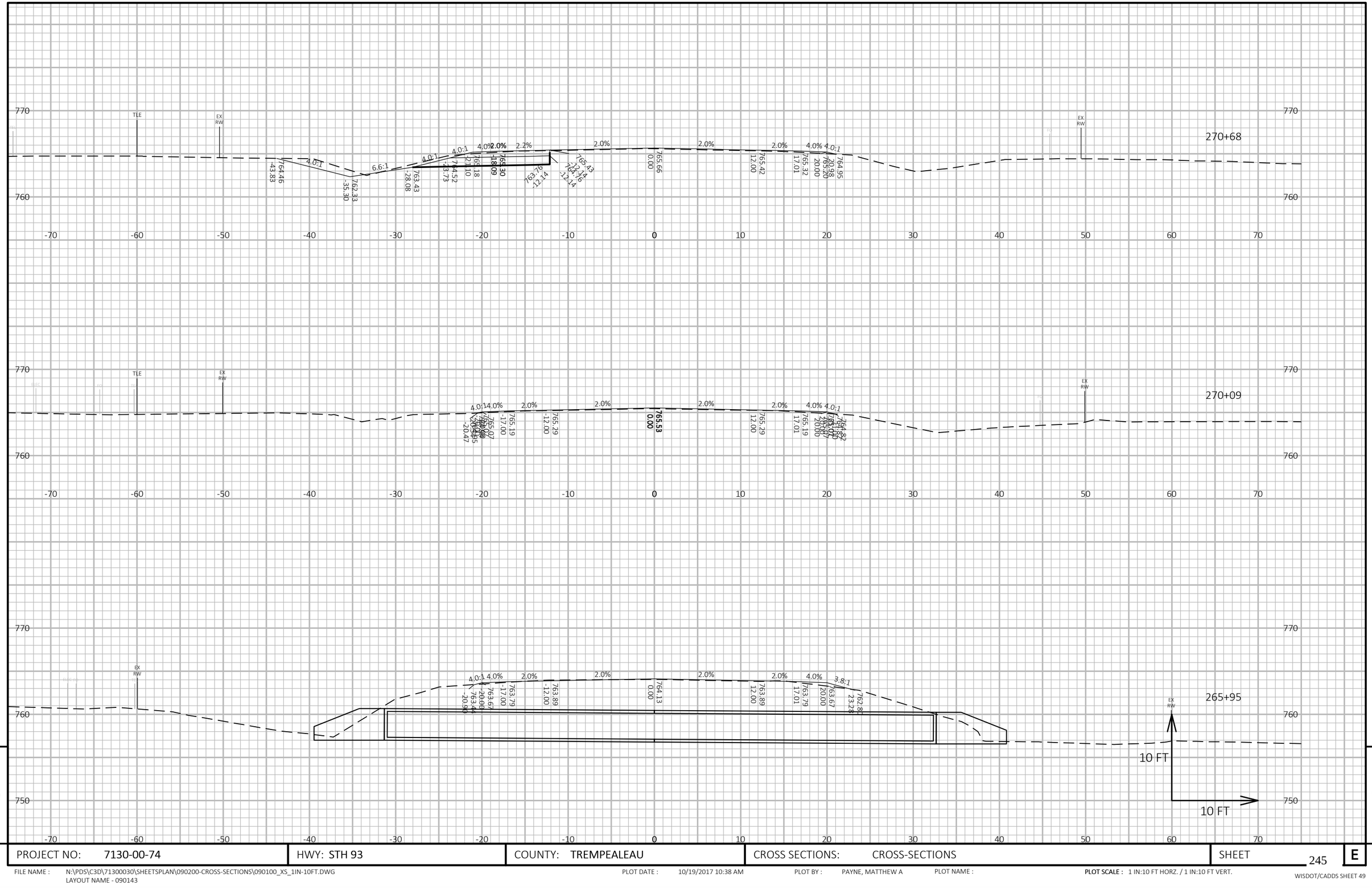
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 244	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090142

PLOT DATE : 10/19/2017 10:38 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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

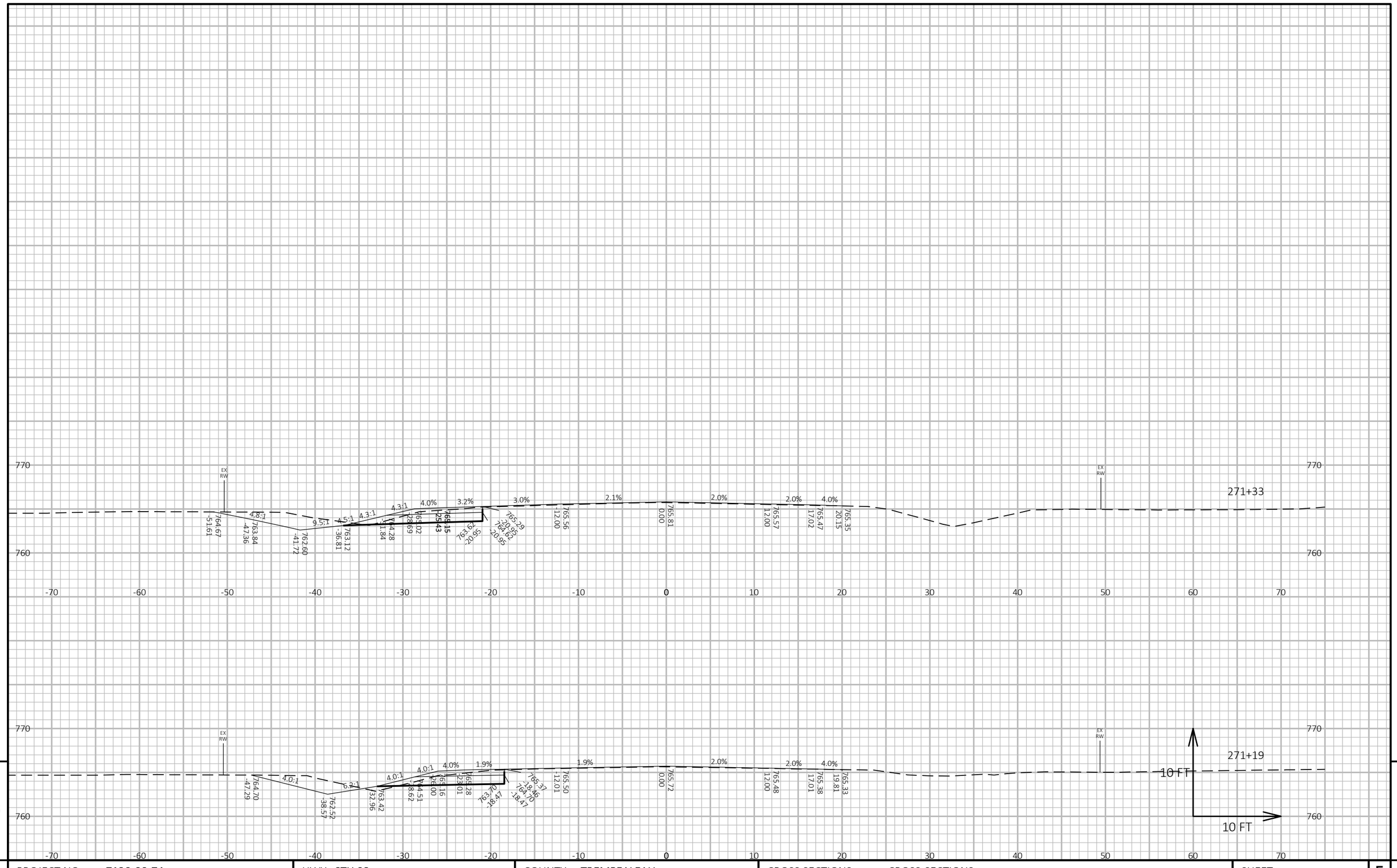


PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 245 E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090143

PLOT DATE : 10/19/2017 10:38 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 246	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090144

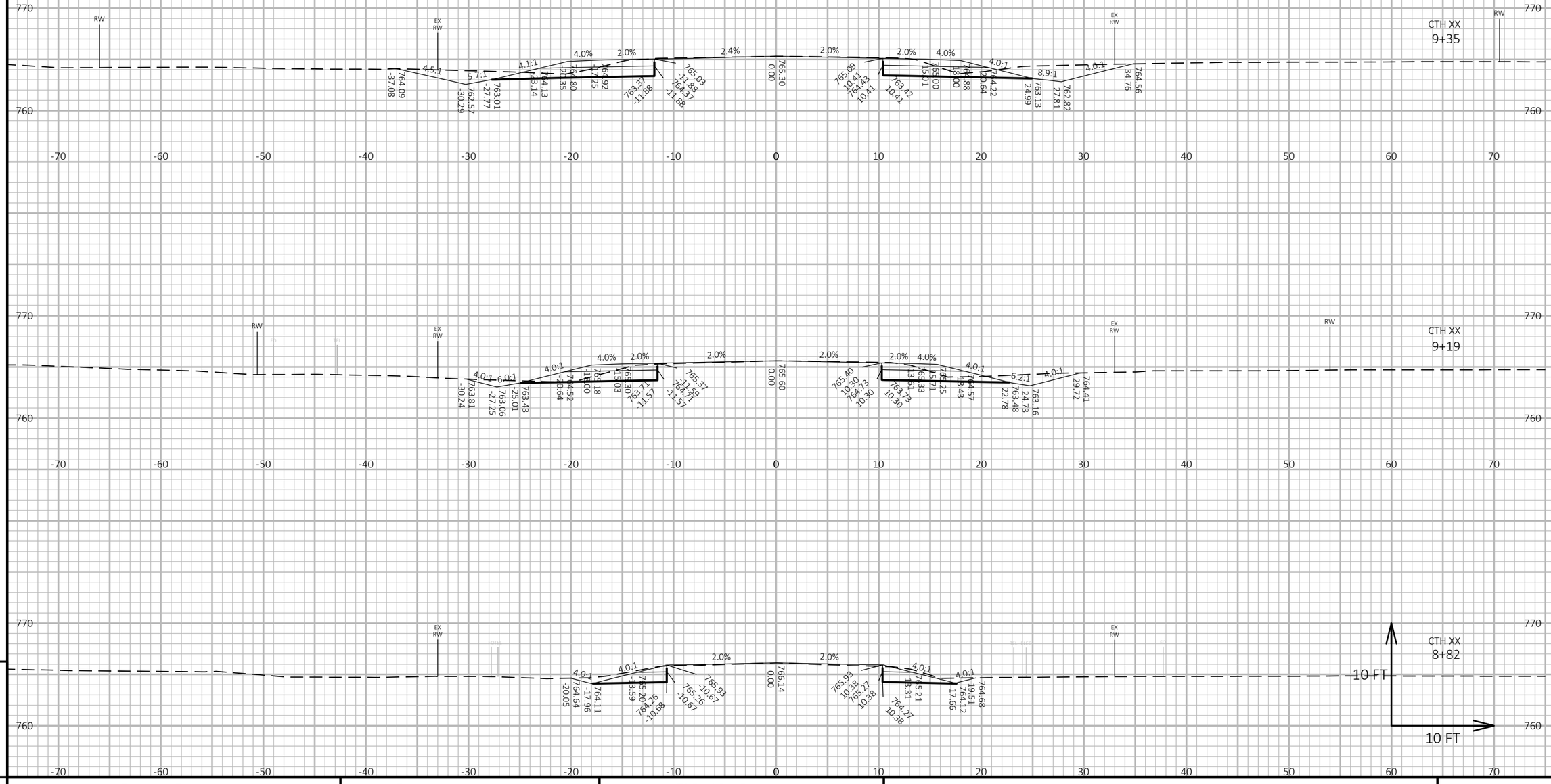
PLOT DATE : 10/19/2017 10:38 AM

PLOT BY : PAYNE, MATTHEW A

PLOT NAME :

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

WISDOT/CADDS SHEET 49



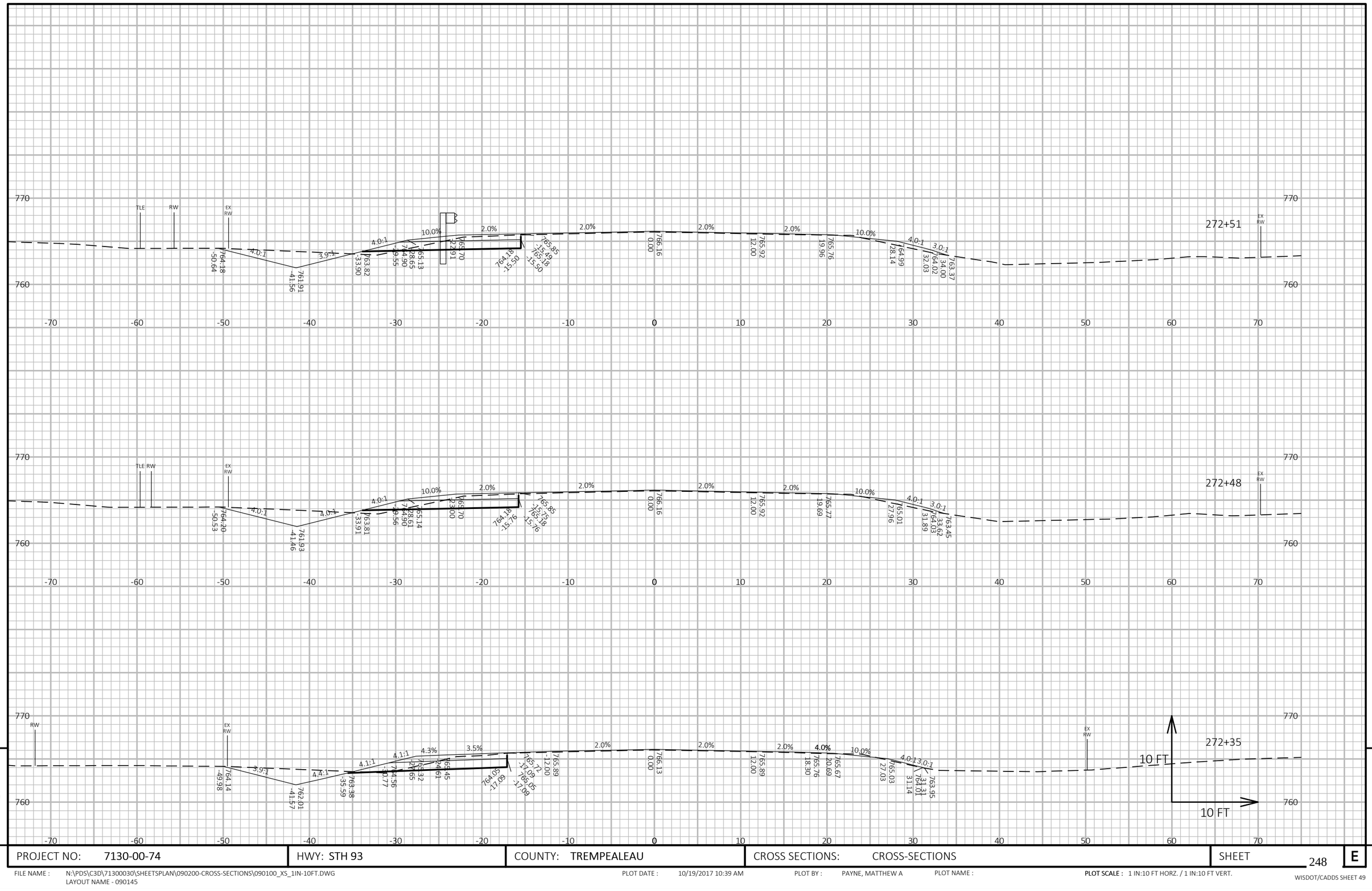
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 247	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090201

PLOT DATE : 10/19/2017 10:39 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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

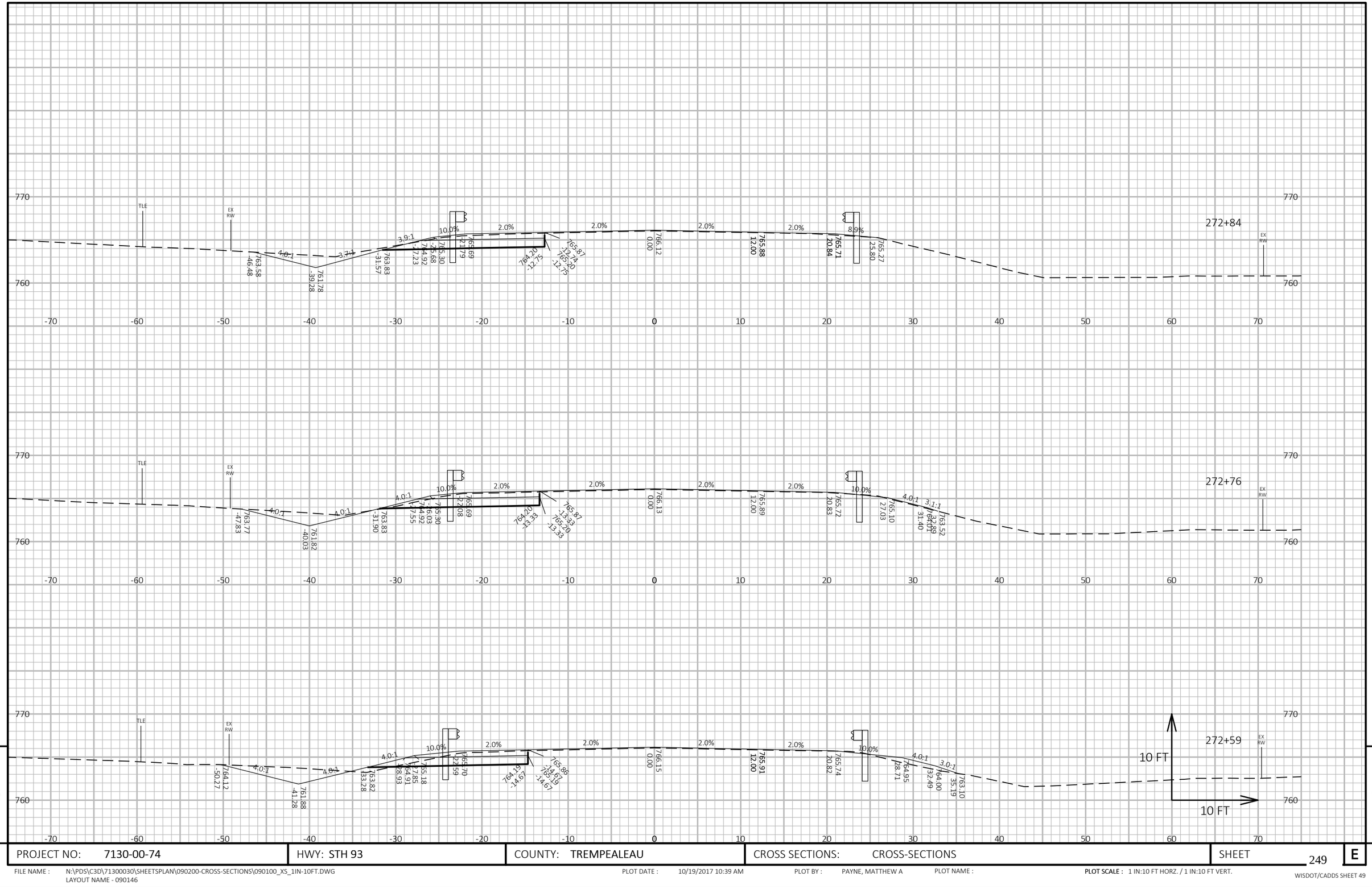
WISDOT/CADDS SHEET 49



PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 248	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090145

PLOT DATE : 10/19/2017 10:39 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



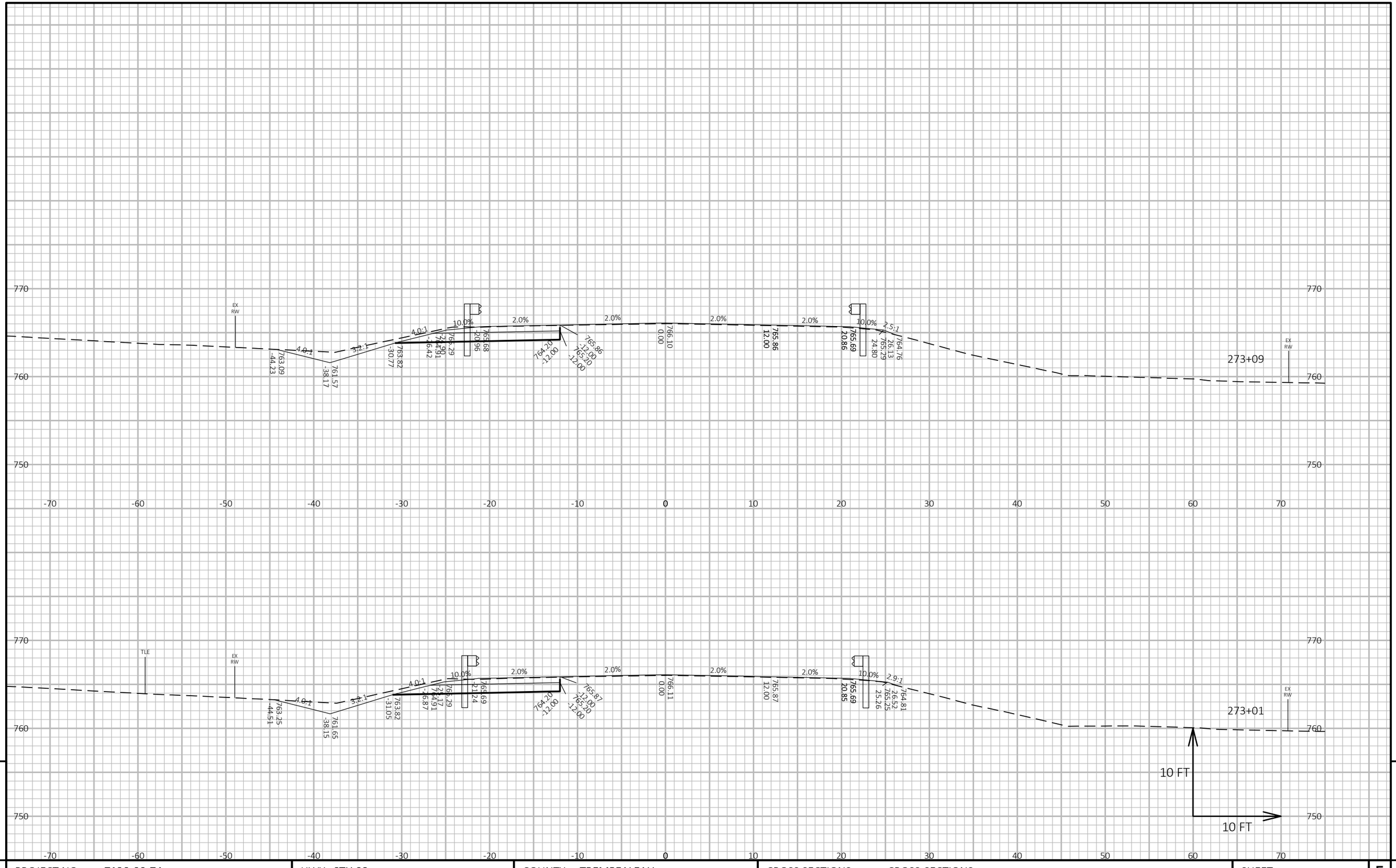
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 249	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090146

PLOT DATE : 10/19/2017 10:39 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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

WISDOT/CADDS SHEET 49



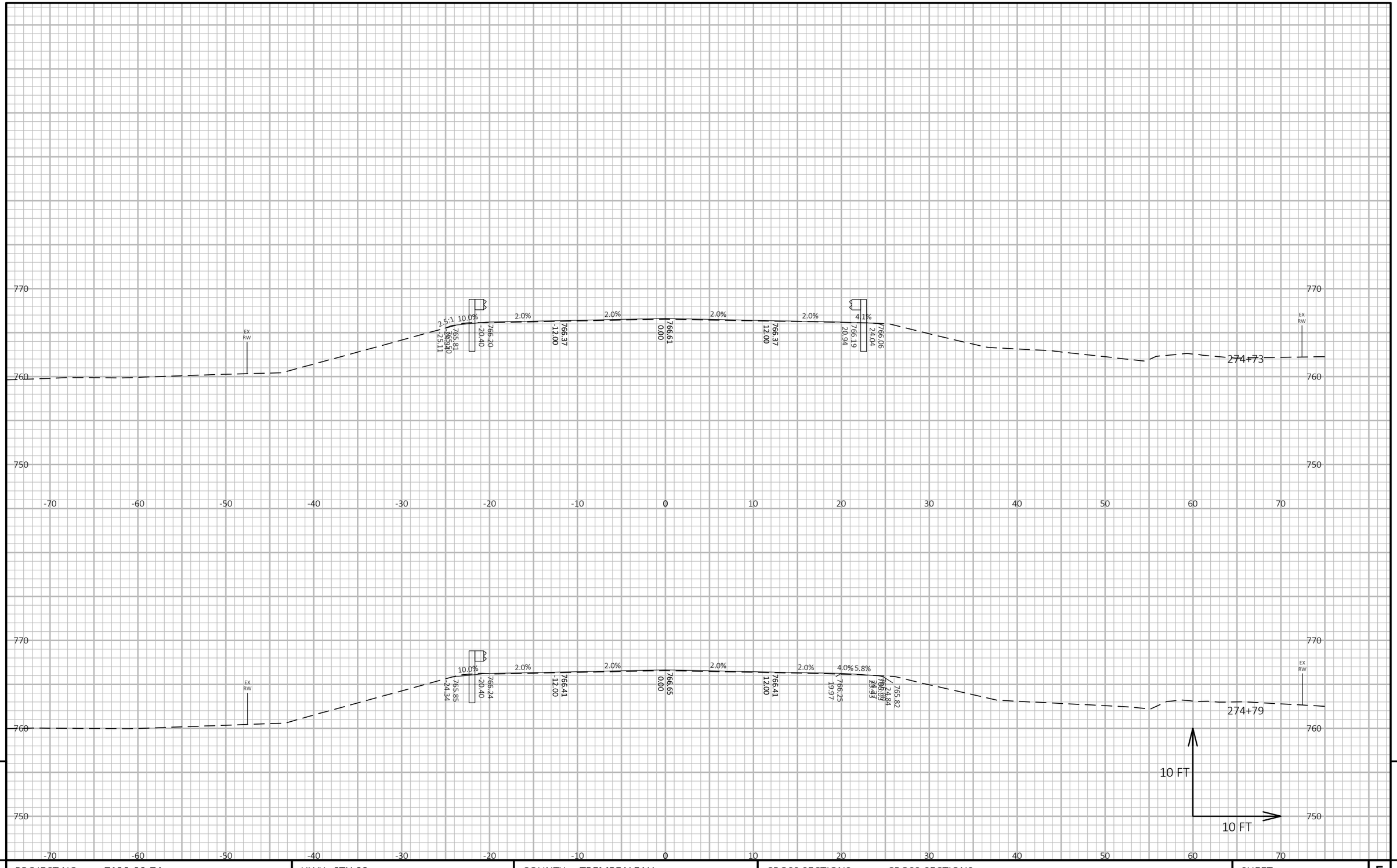
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 250	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090147

PLOT DATE : 10/19/2017 10:40 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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

WISDOT/CADDS SHEET 49



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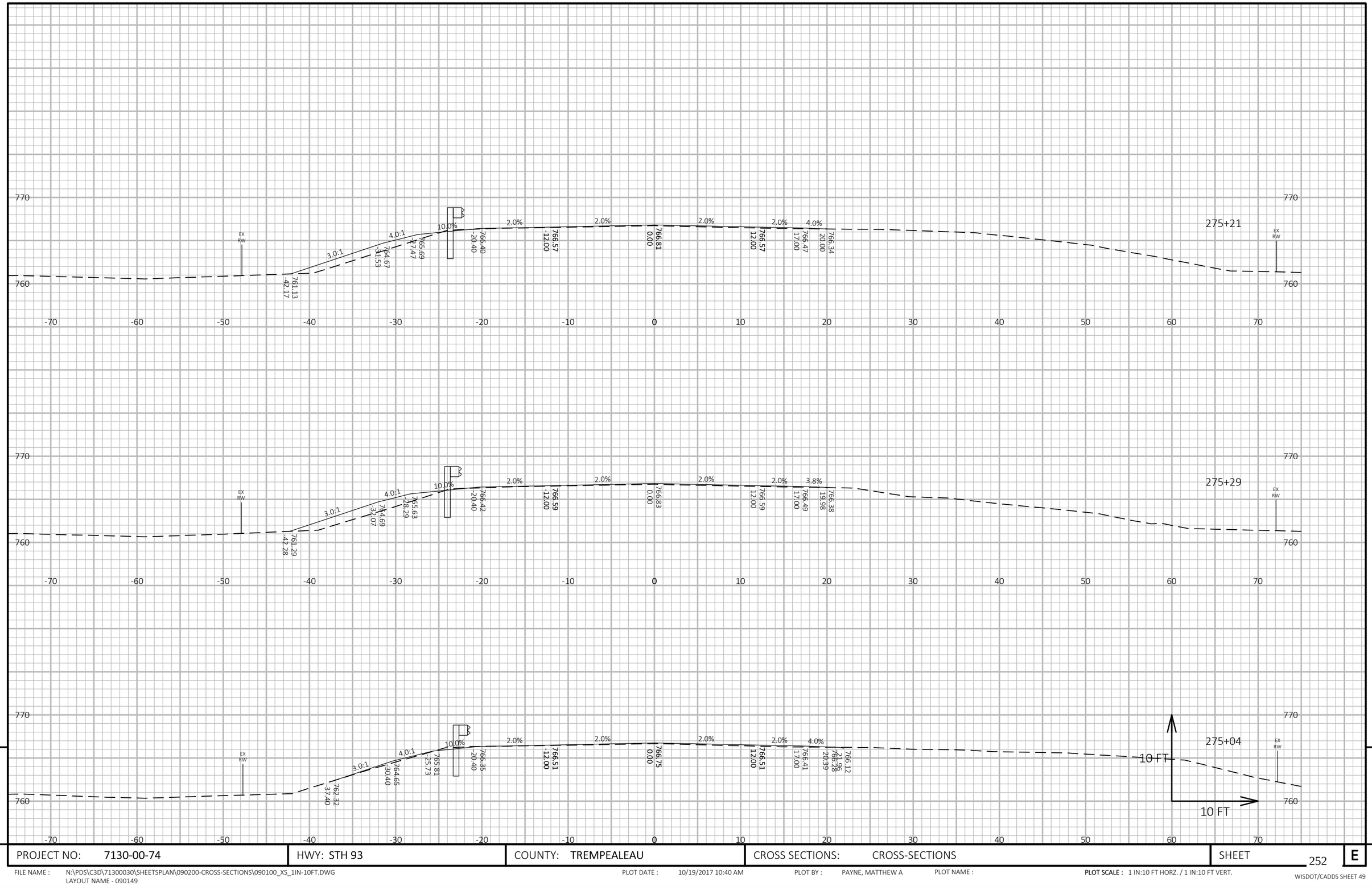
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 251	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090148

PLOT DATE : 10/19/2017 10:40 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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



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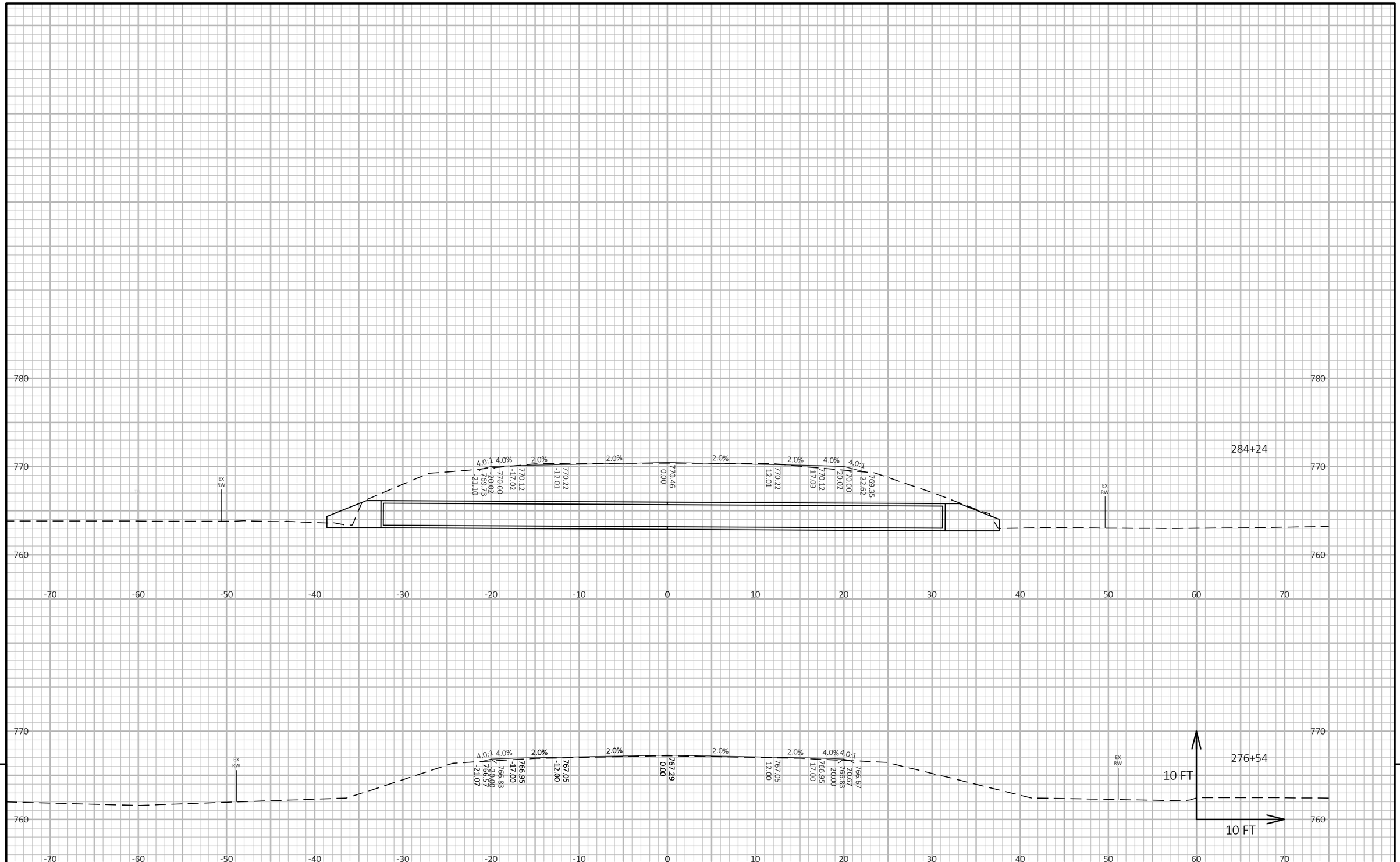
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 252	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090149

PLOT DATE : 10/19/2017 10:40 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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



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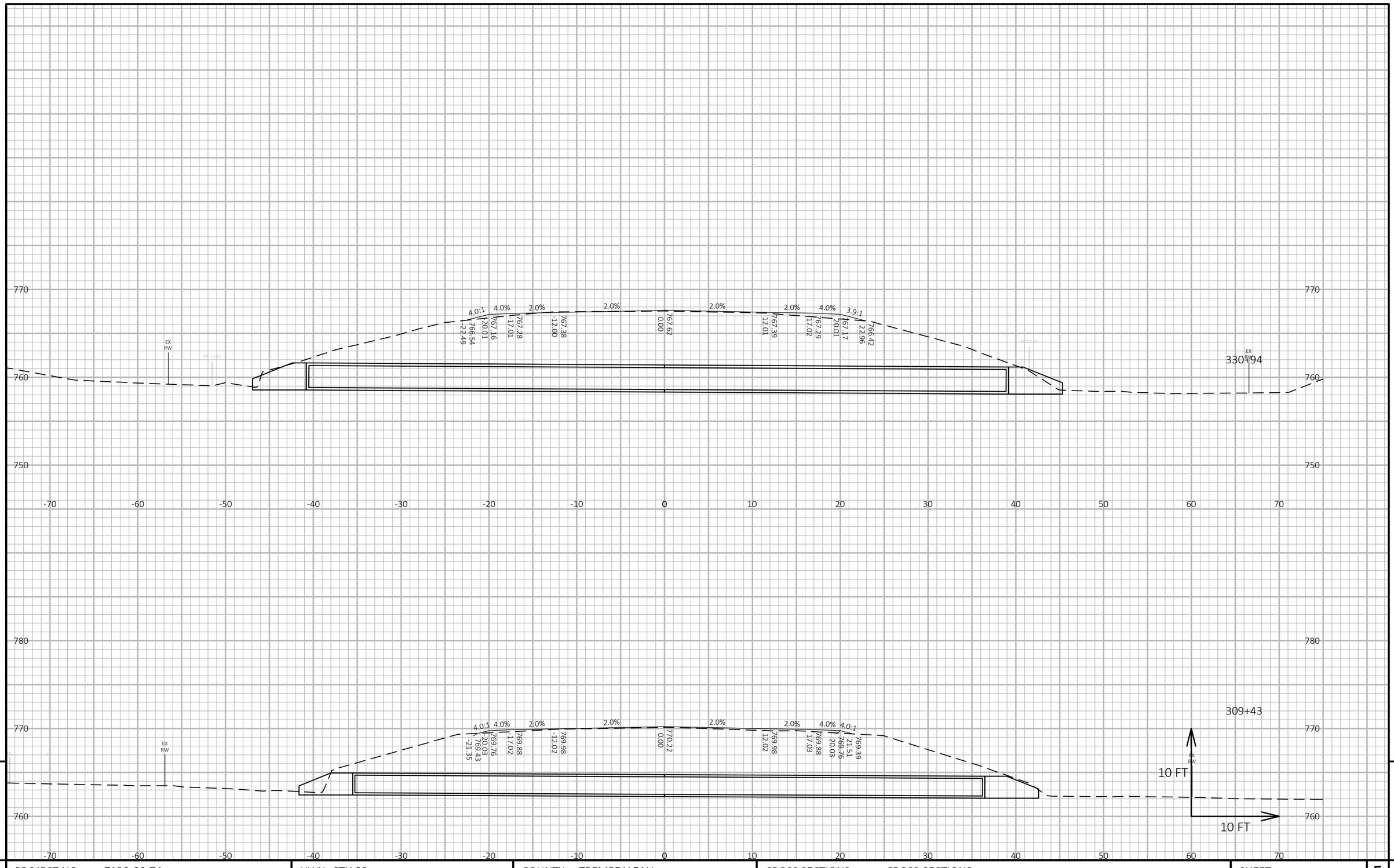
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 253	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090150

PLOT DATE : 10/19/2017 10:41 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

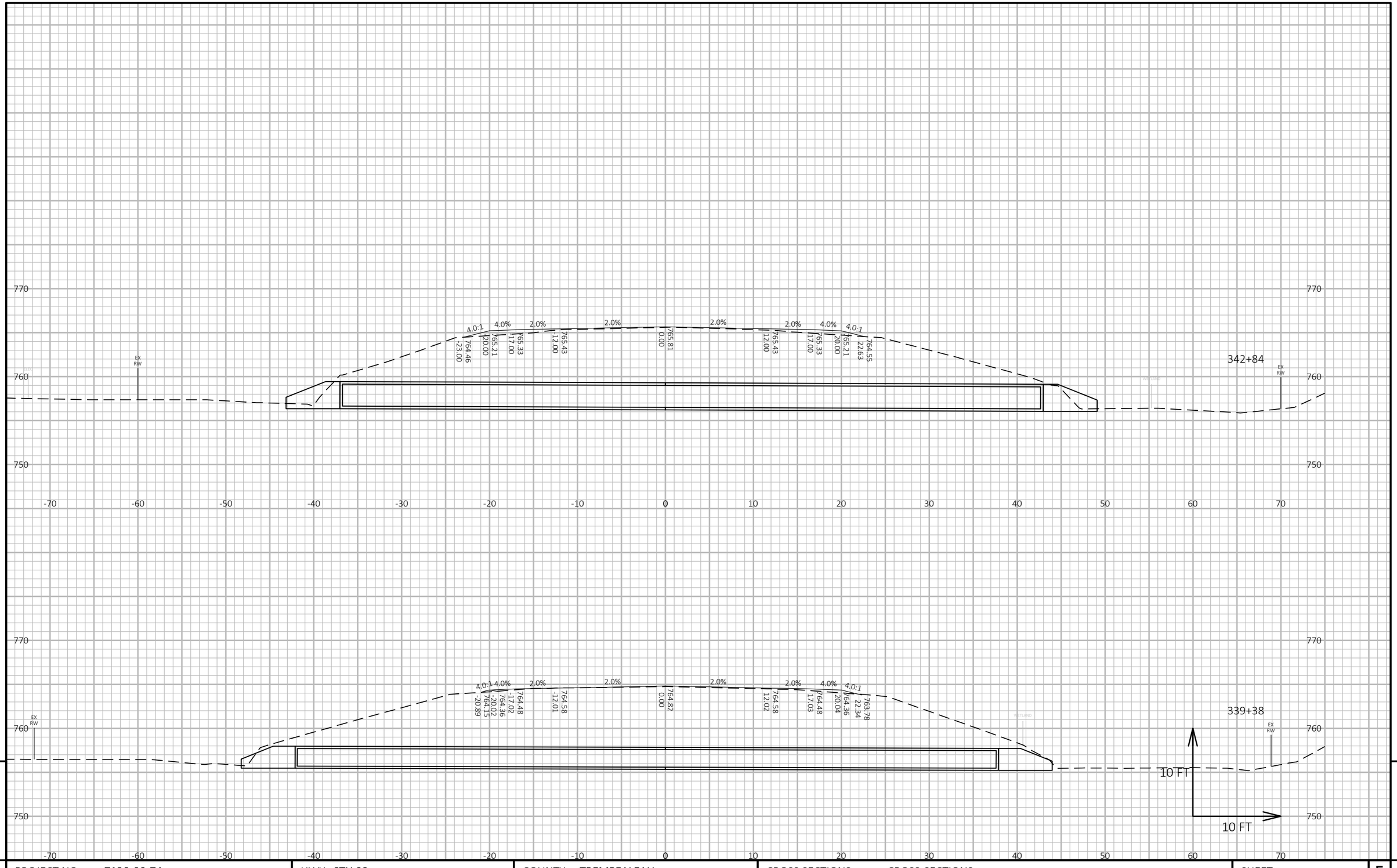


PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 254	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090151

PLOT DATE : 10/19/2017 10:41 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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



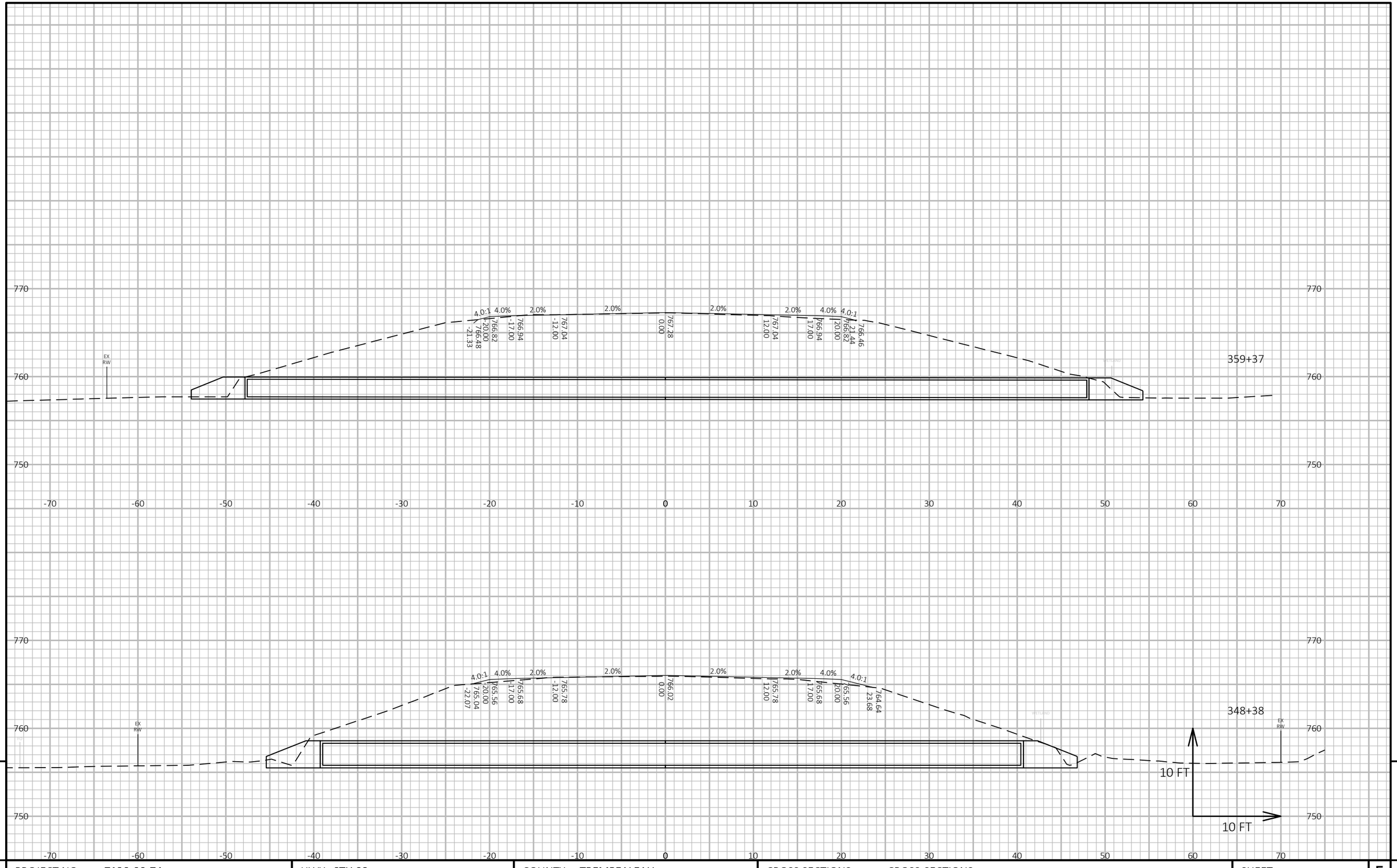
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 255	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090152

PLOT DATE : 10/19/2017 10:41 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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

WISDOT/CADDS SHEET 49



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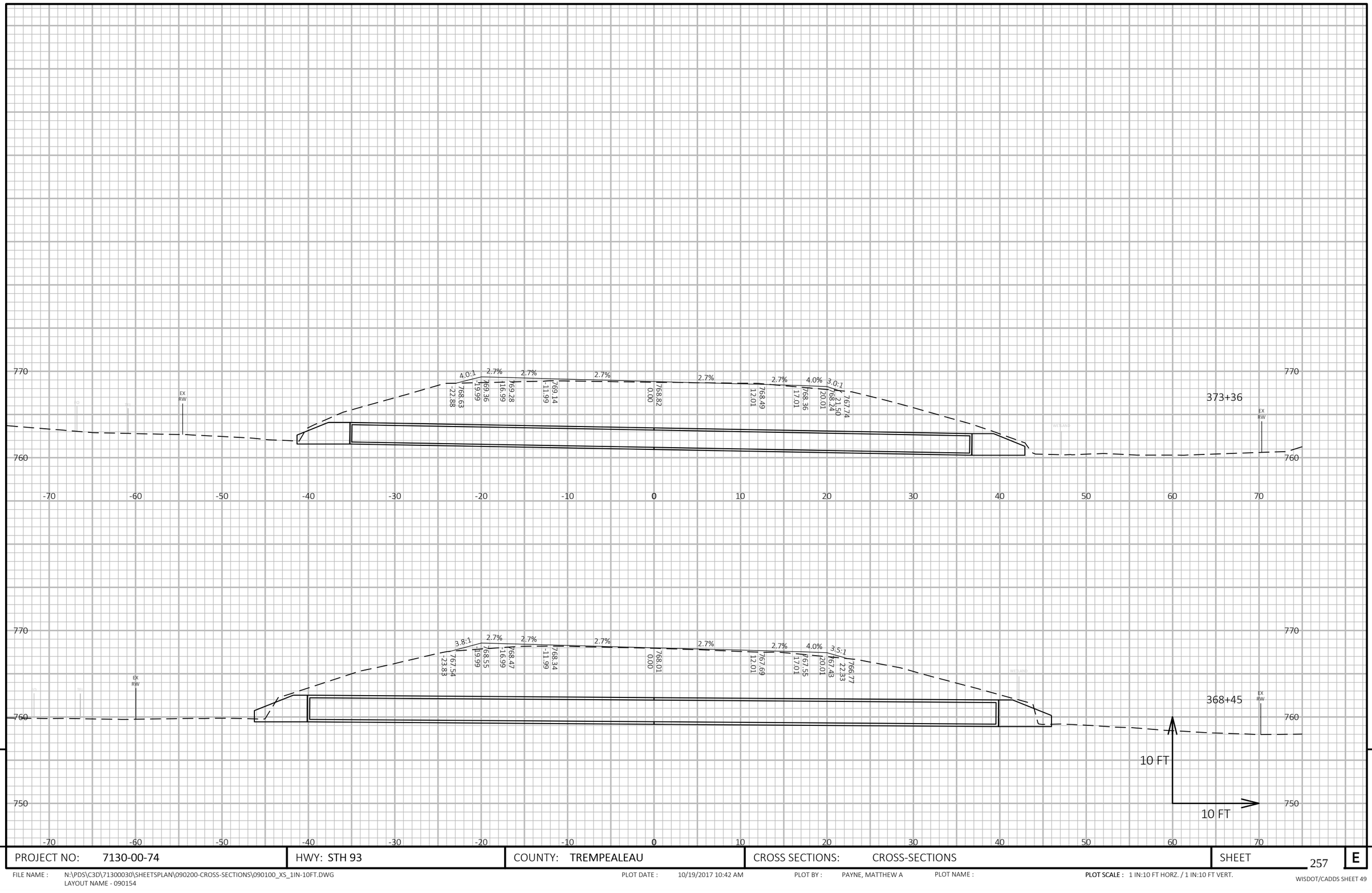
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 256	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090153

PLOT DATE : 10/19/2017 10:42 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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

WISDOT/CADDS SHEET 49



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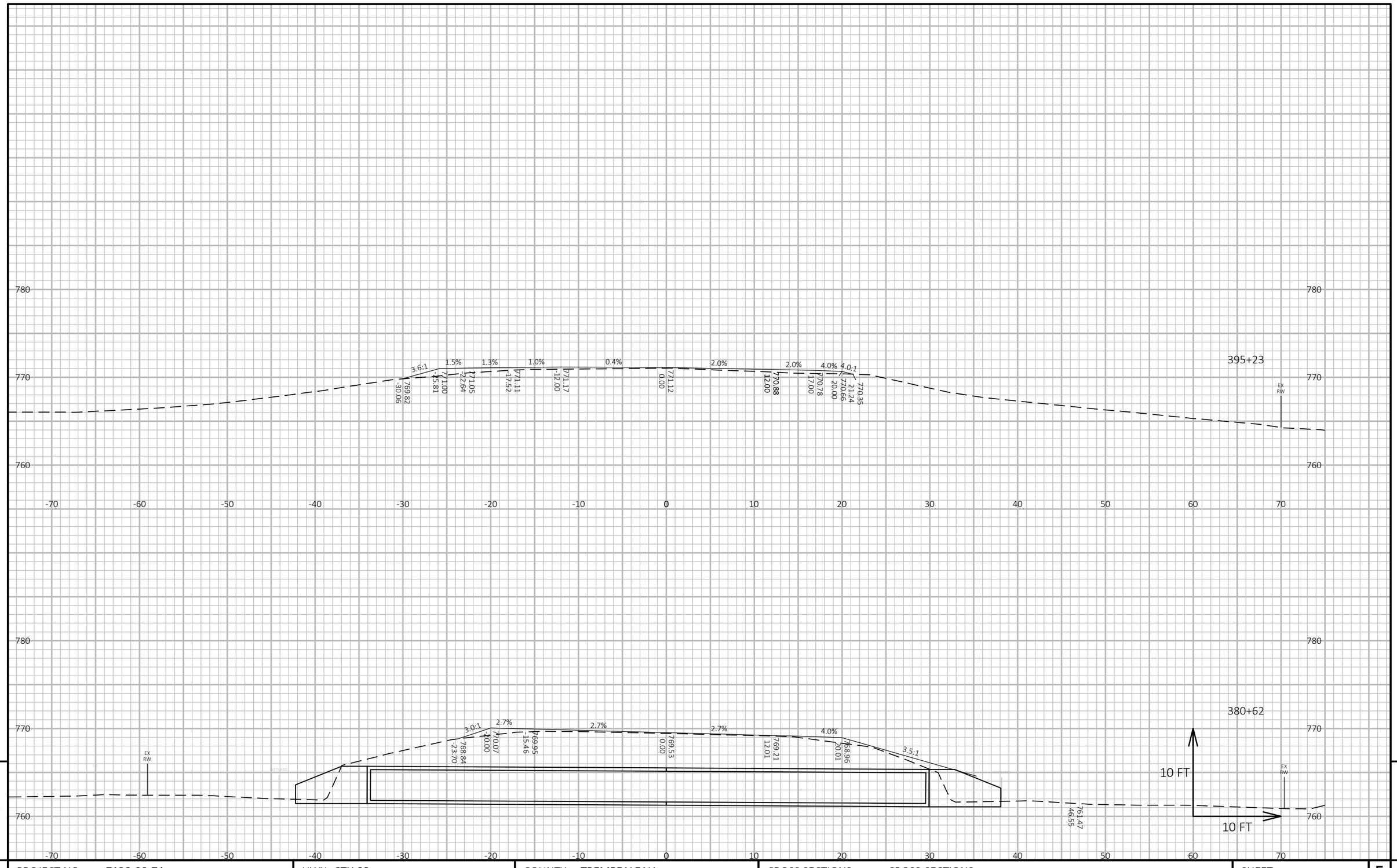
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 257	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090154

PLOT DATE : 10/19/2017 10:42 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



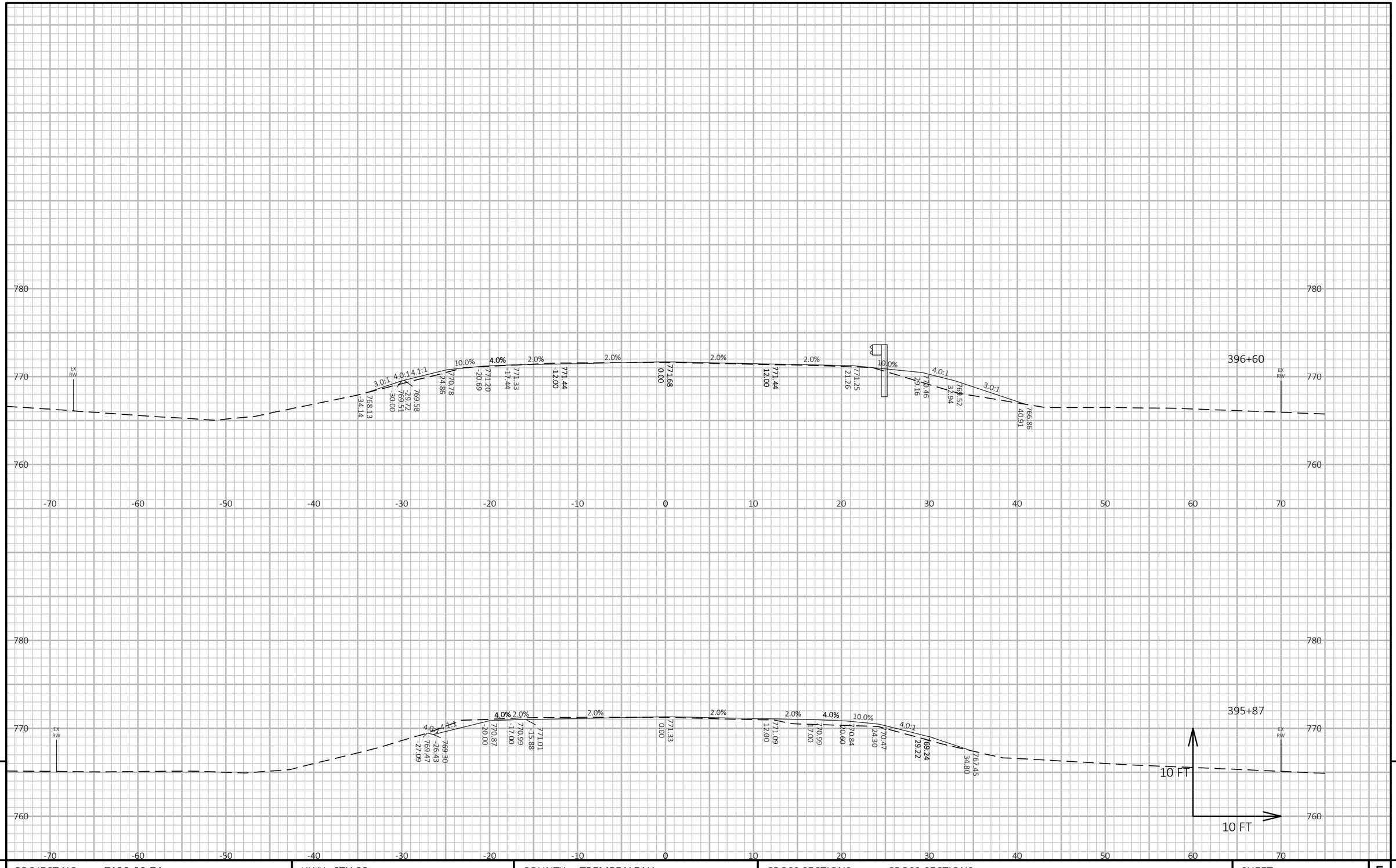
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 258	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090155

PLOT DATE : 10/19/2017 10:42 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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

WISDOT/CADDS SHEET 49



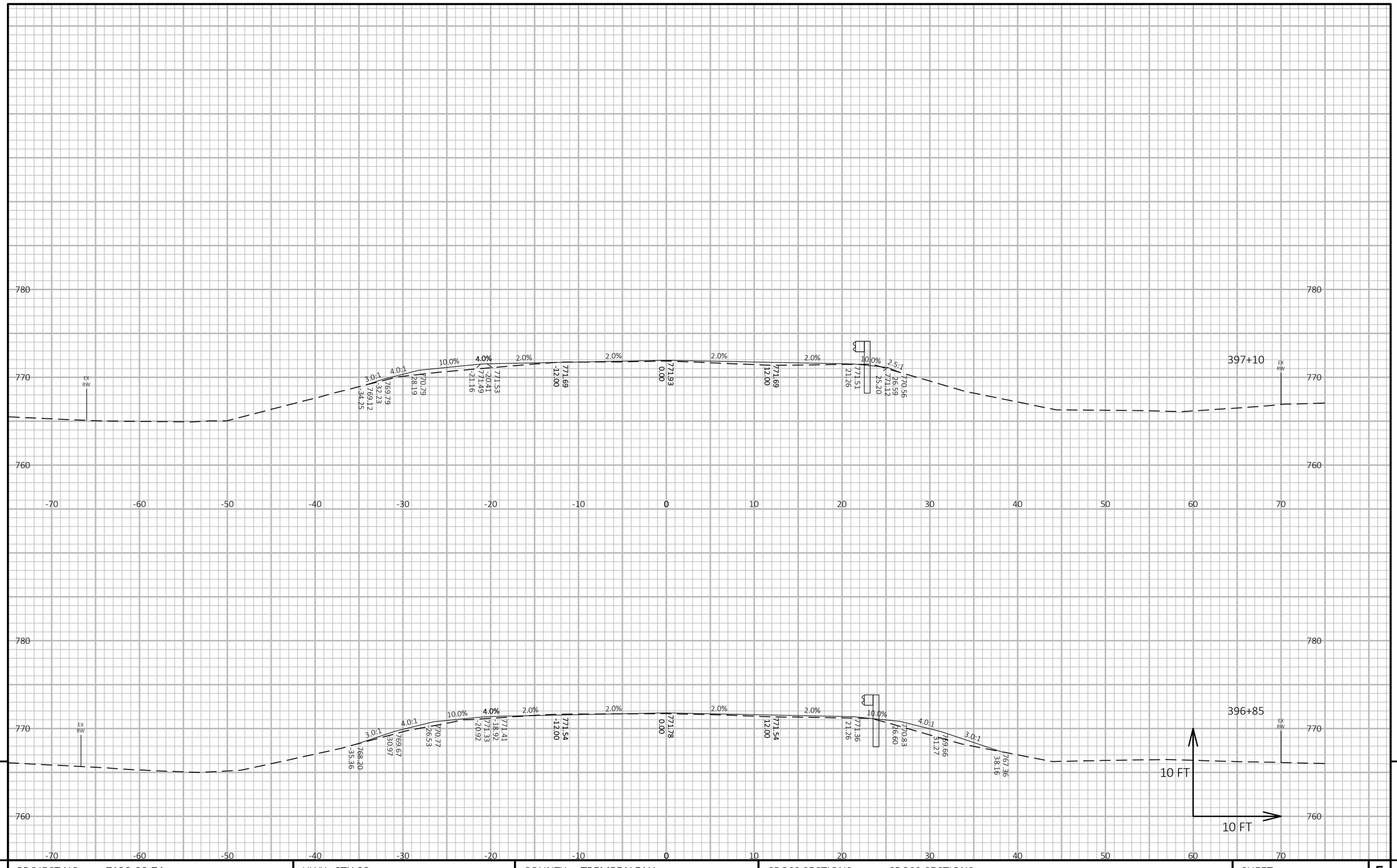
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 259	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090156

PLOT DATE : 10/19/2017 10:43 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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

WISDOT/CADDS SHEET 49



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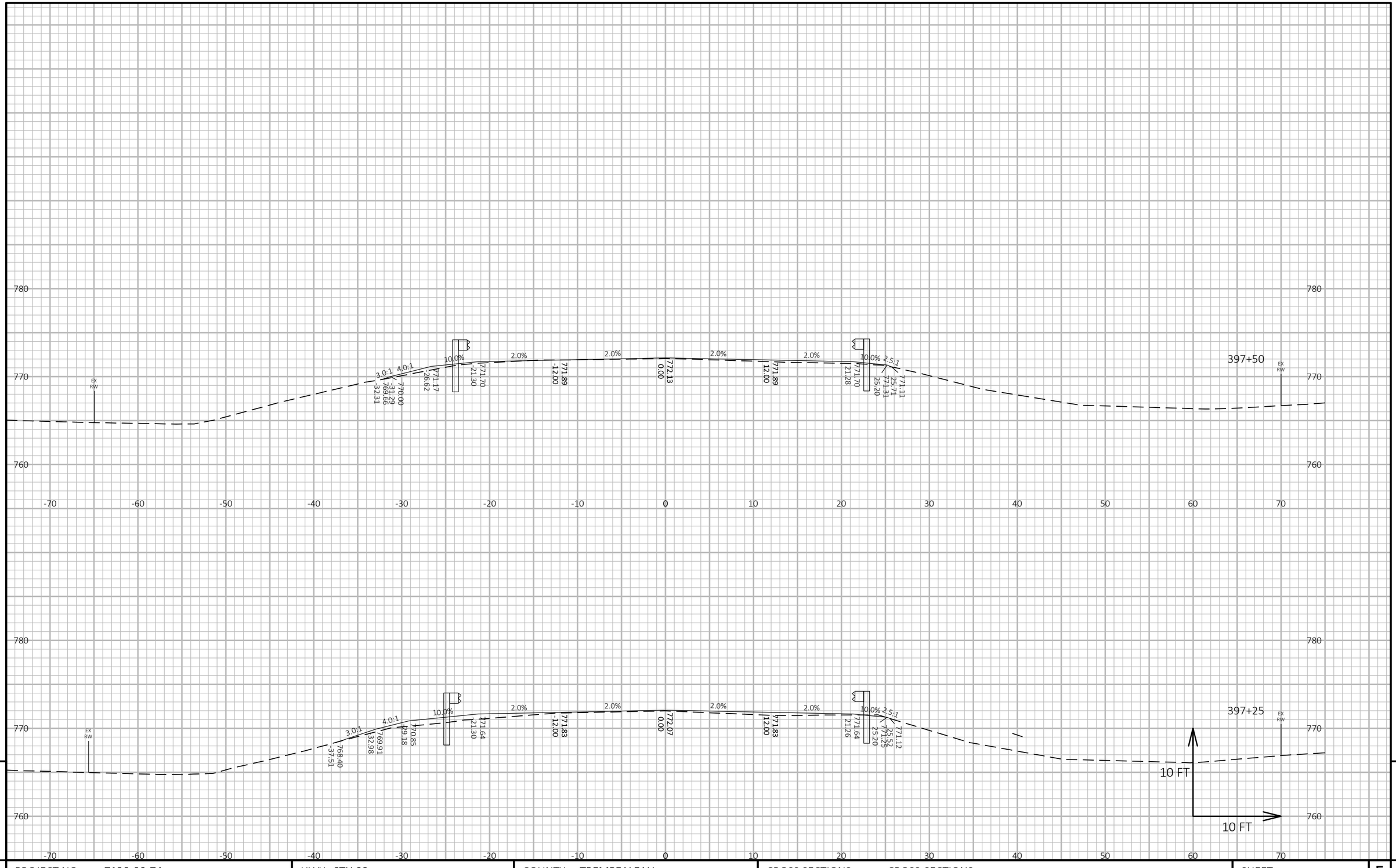
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 260	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090157

PLOT DATE : 10/19/2017 10:43 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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

WISDOT/CADDS SHEET 49



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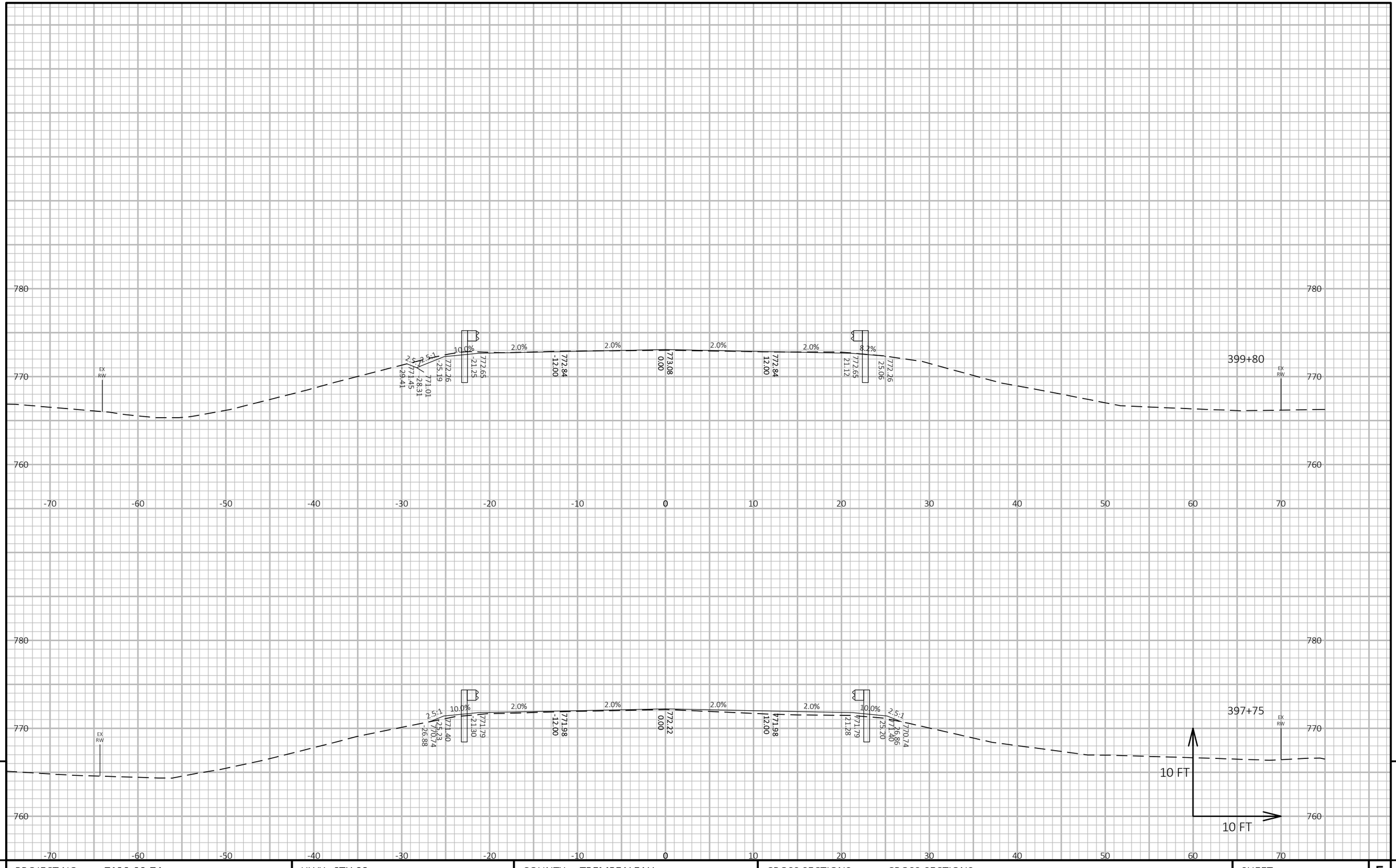
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 261	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090158

PLOT DATE : 10/19/2017 10:43 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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

WISDOT/CADDS SHEET 49



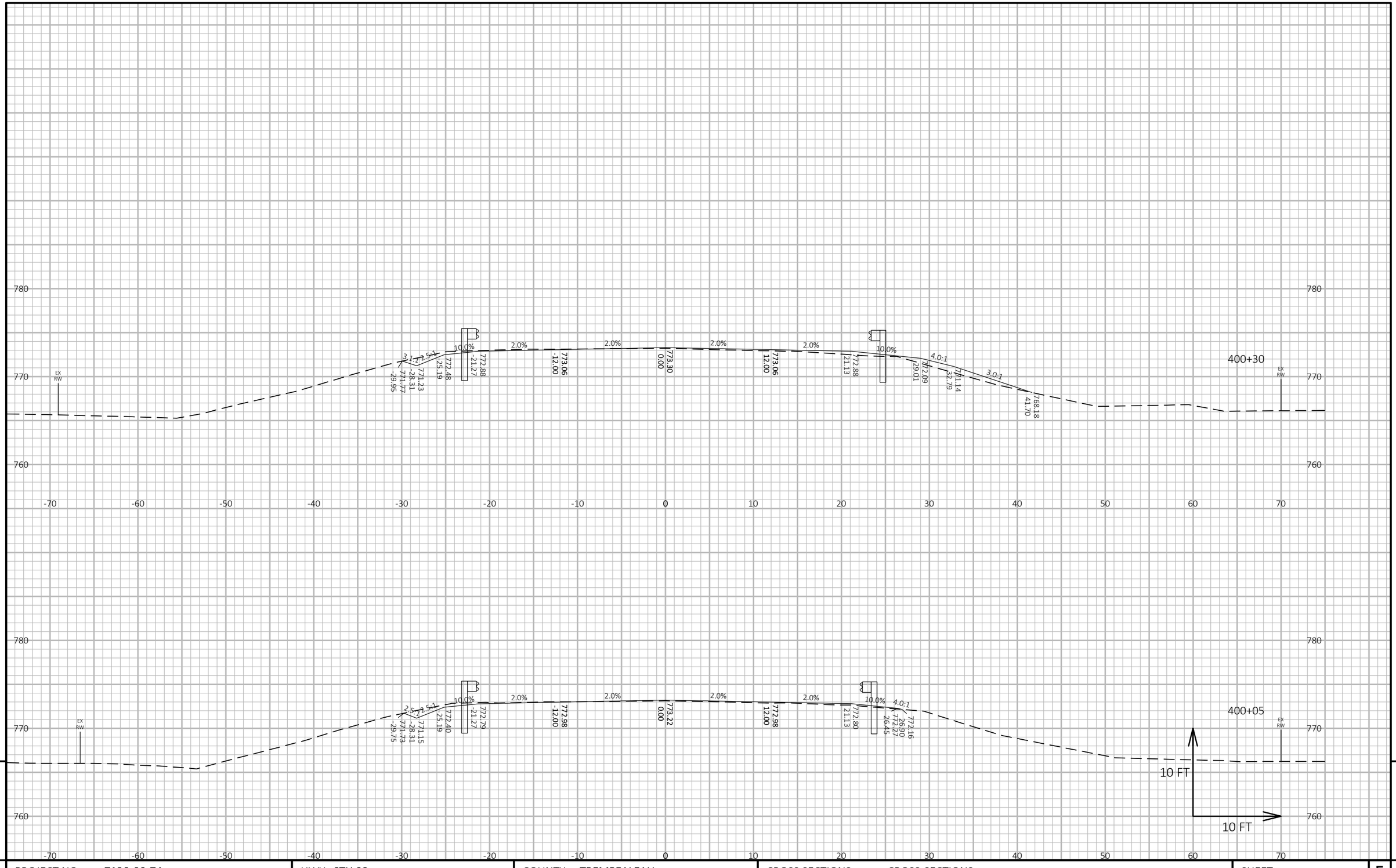
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 262	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090159

PLOT DATE : 10/19/2017 10:44 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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

WISDOT/CADDS SHEET 49



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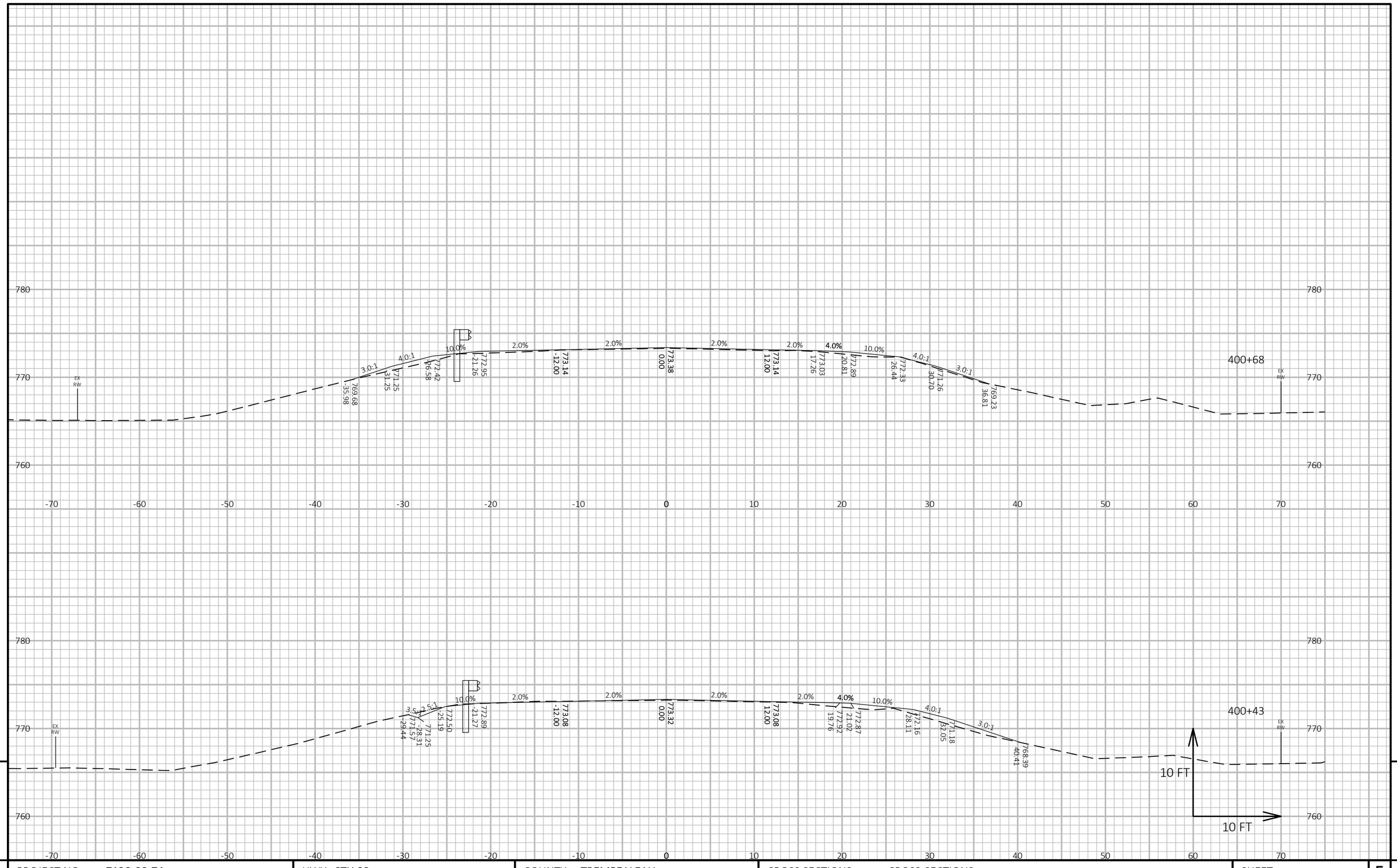
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 263	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090160

PLOT DATE : 10/19/2017 10:44 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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



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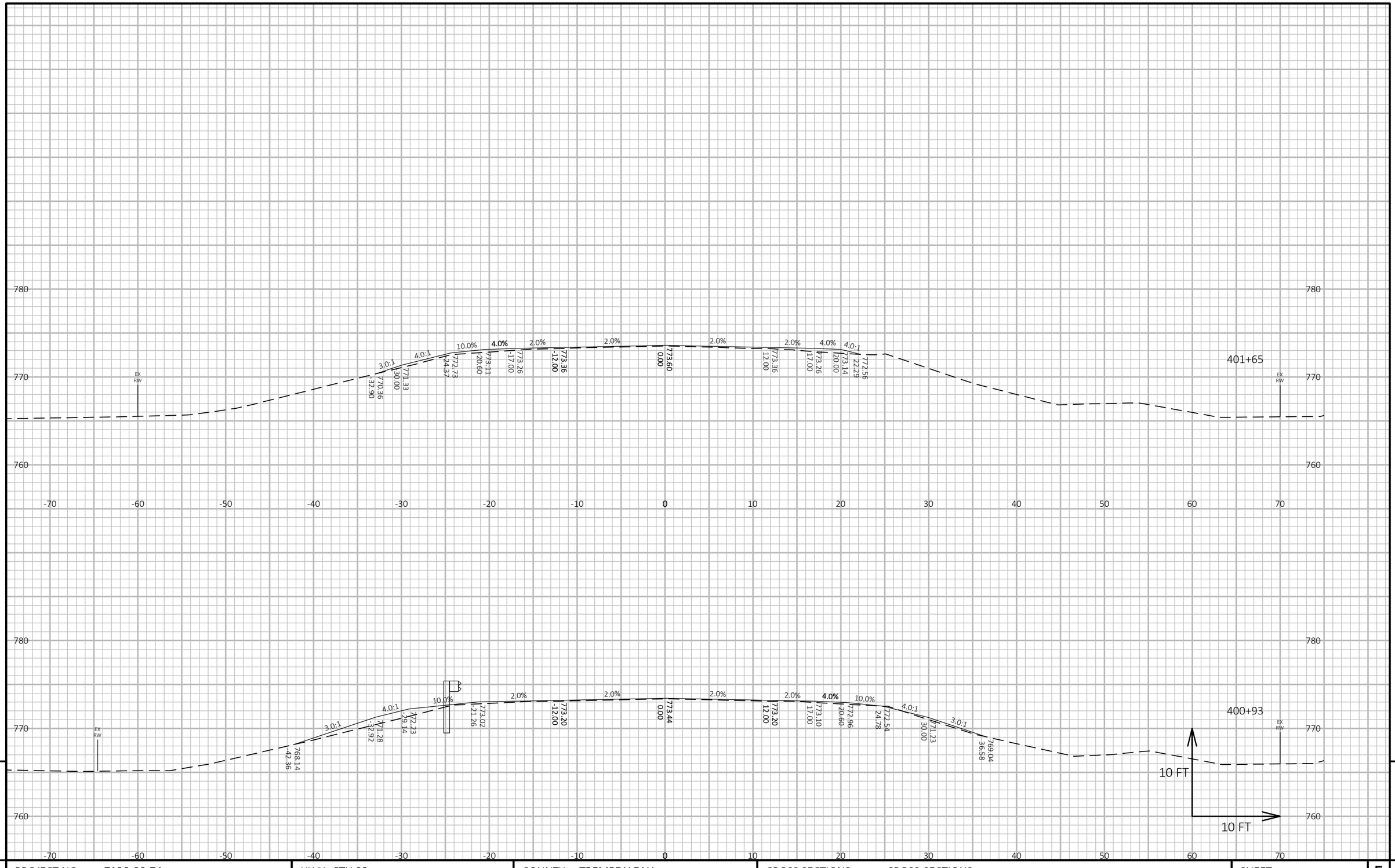
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 264	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090161

PLOT DATE : 10/19/2017 10:44 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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

WISDOT/CADDS SHEET 49



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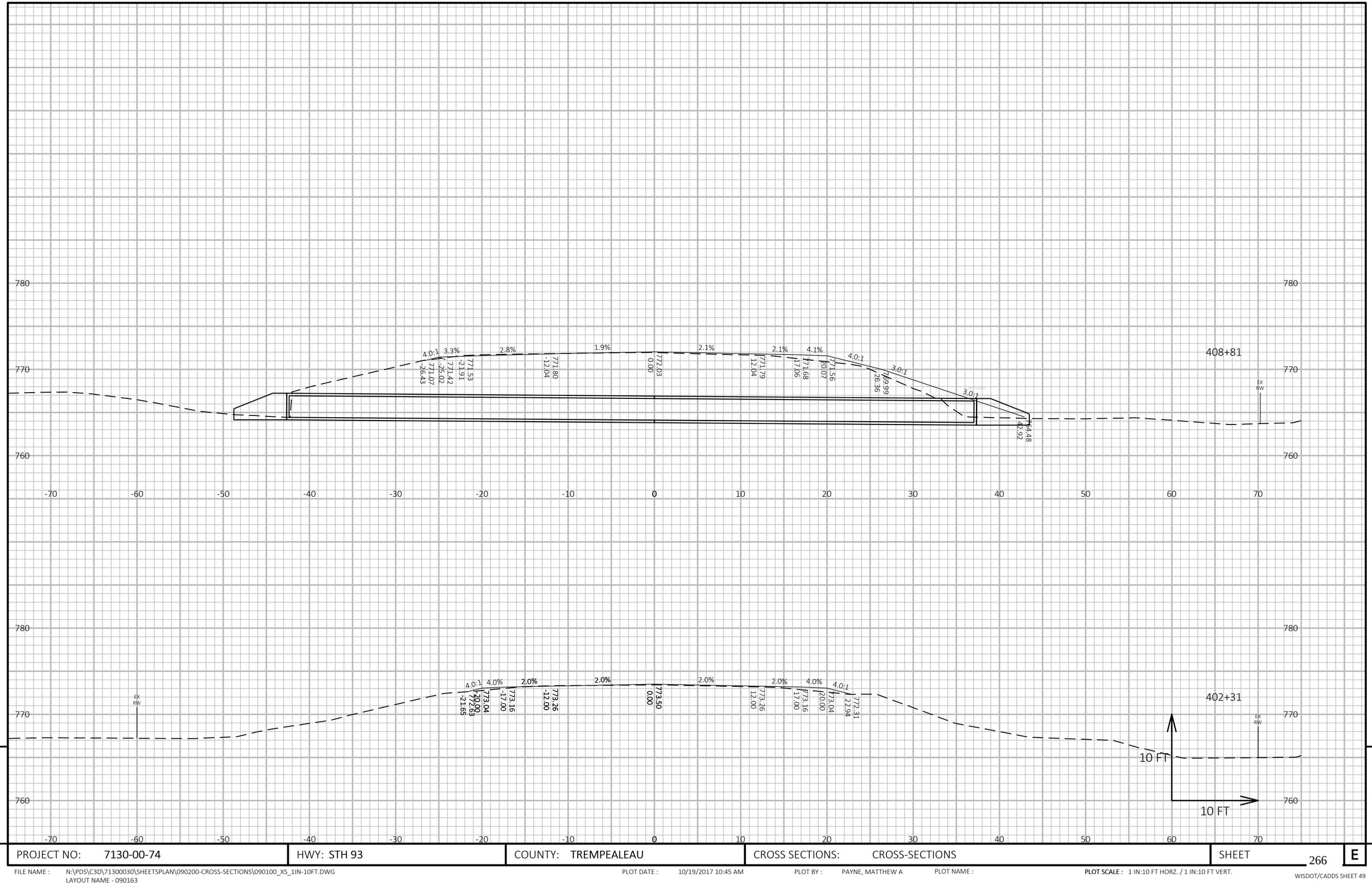
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 265	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090162

PLOT DATE : 10/19/2017 10:44 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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

WISDOT/CADDS SHEET 49

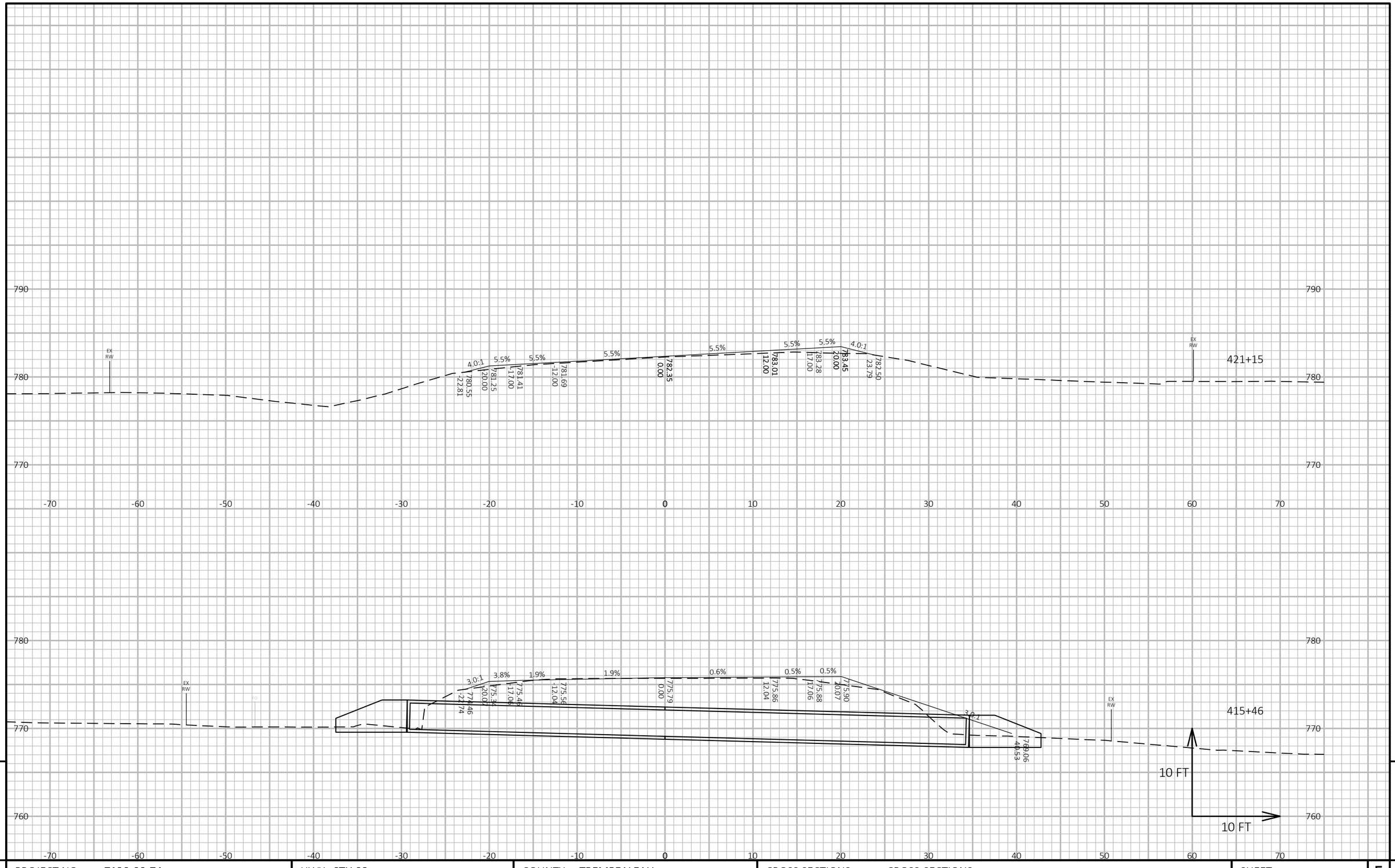


PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 266	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090163

PLOT DATE : 10/19/2017 10:45 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



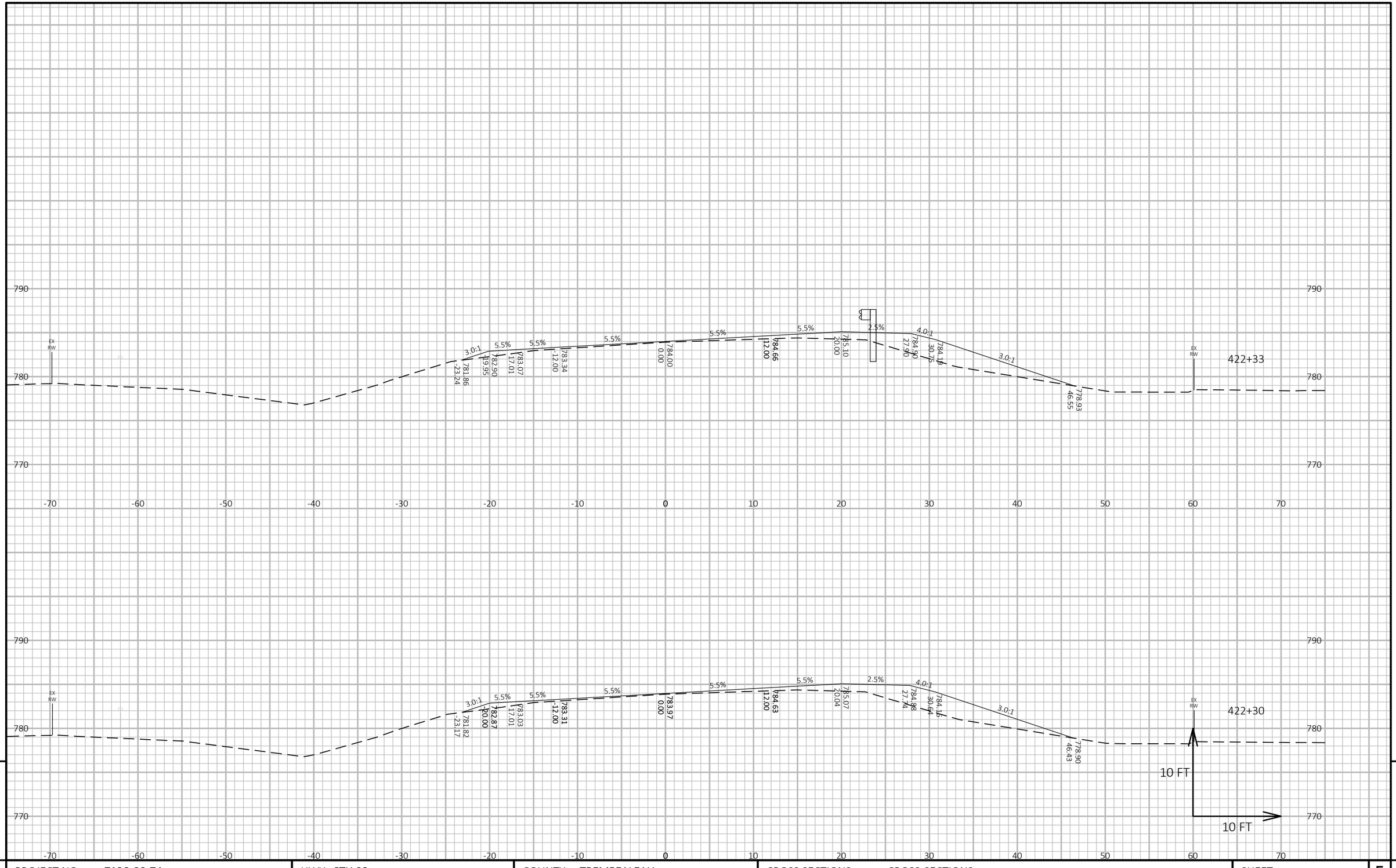
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 267	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090164

PLOT DATE : 10/19/2017 10:45 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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

WISDOT/CADDS SHEET 49



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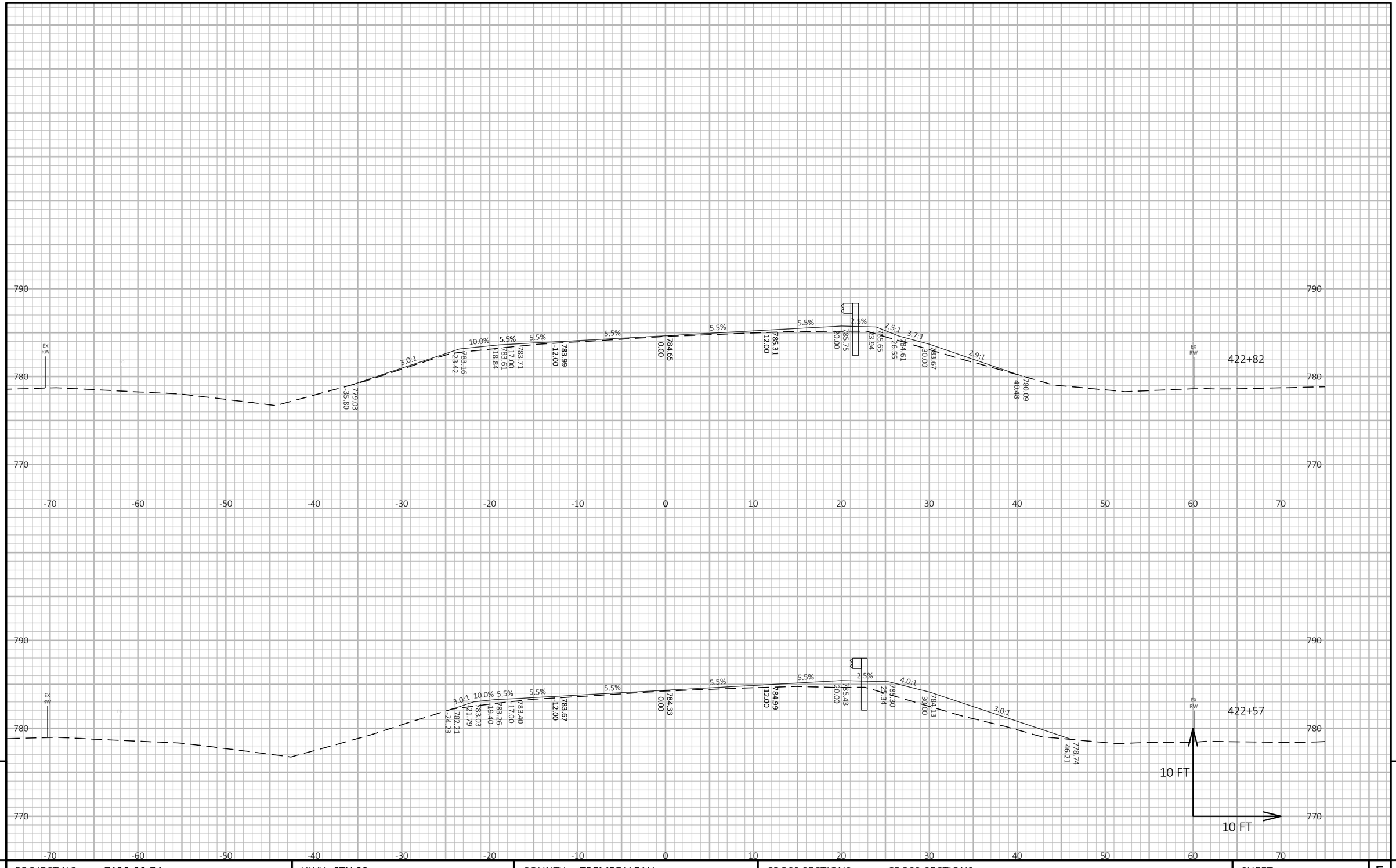
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 268	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090165

PLOT DATE : 10/19/2017 10:45 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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

WISDOT/CADDS SHEET 49



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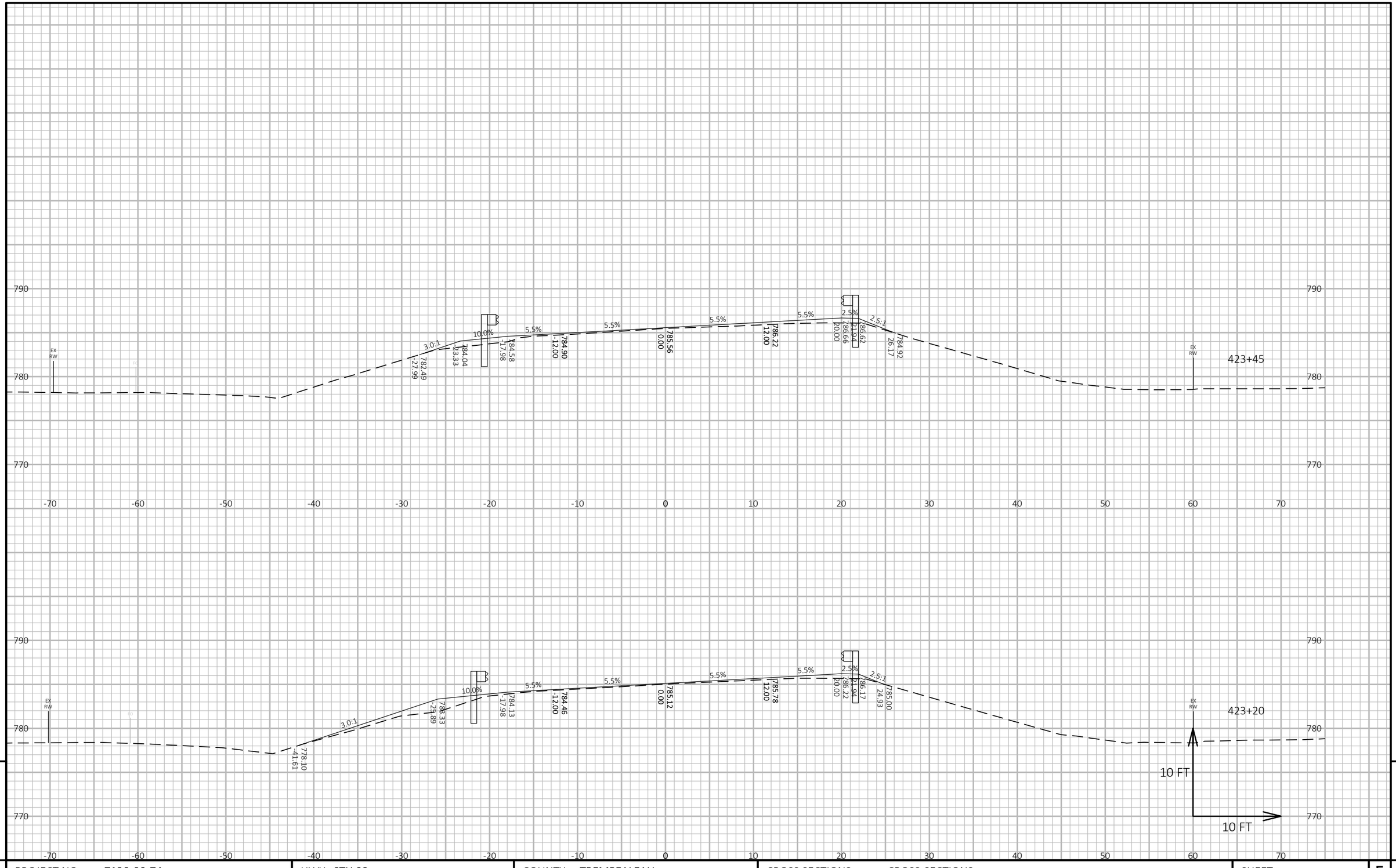
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 269	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090166

PLOT DATE : 10/19/2017 10:46 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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



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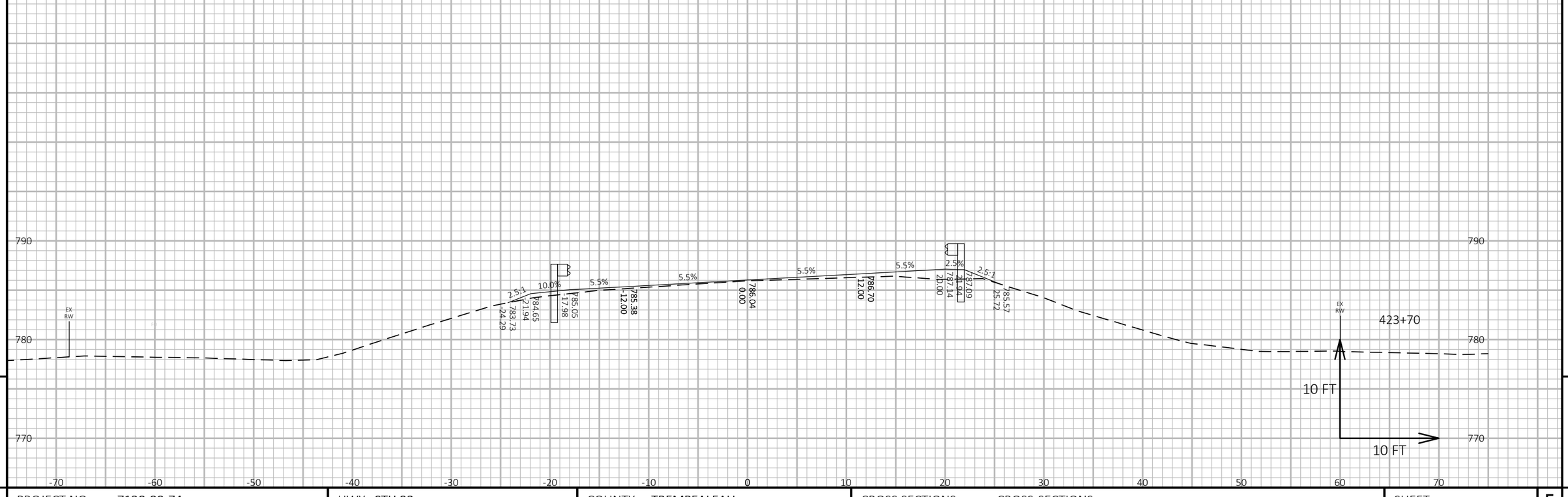
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 270	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090167

PLOT DATE : 10/19/2017 10:46 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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

WISDOT/CADDS SHEET 49



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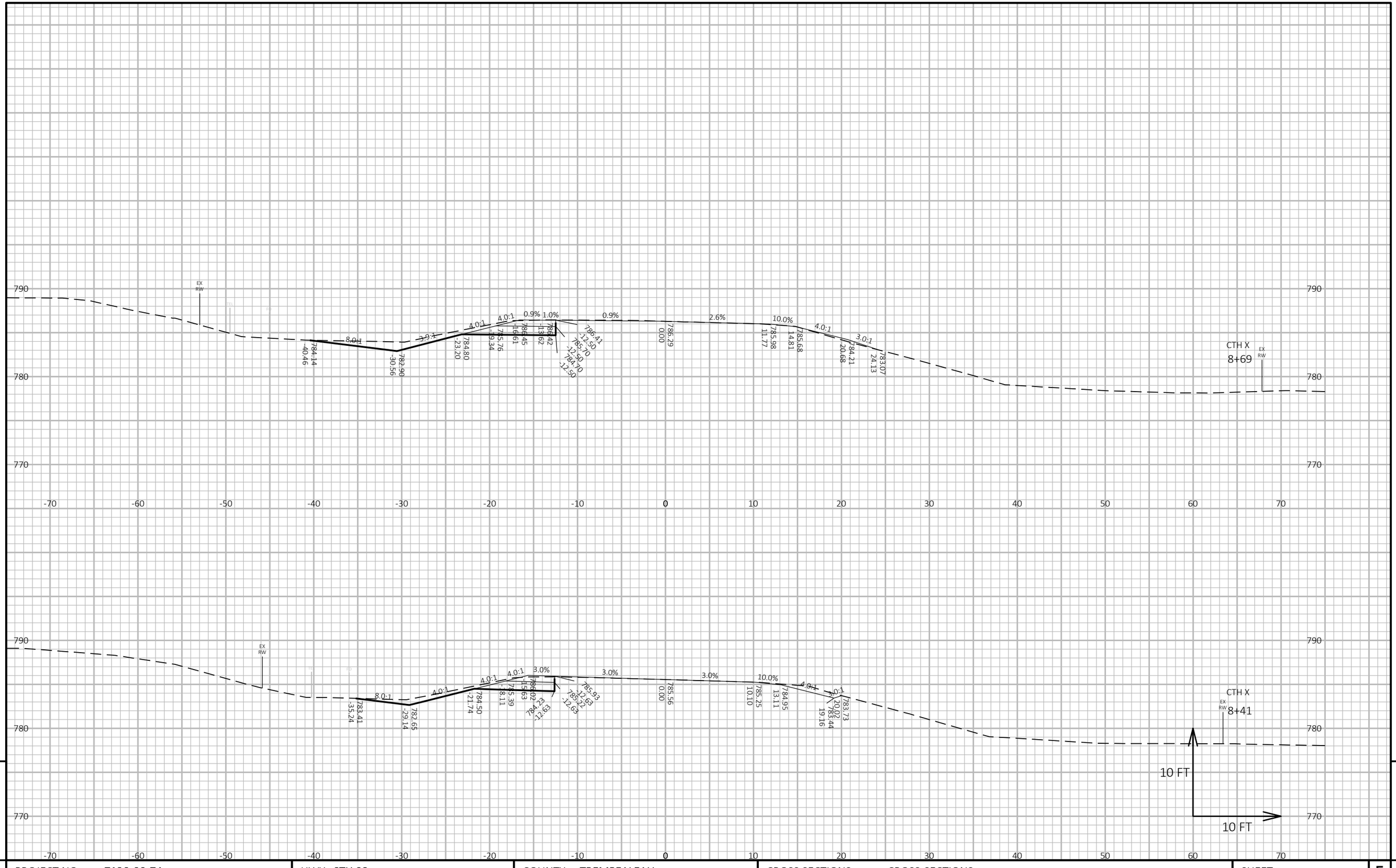
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 271	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090168

PLOT DATE : 10/19/2017 10:46 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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

WISDOT/CADDS SHEET 49



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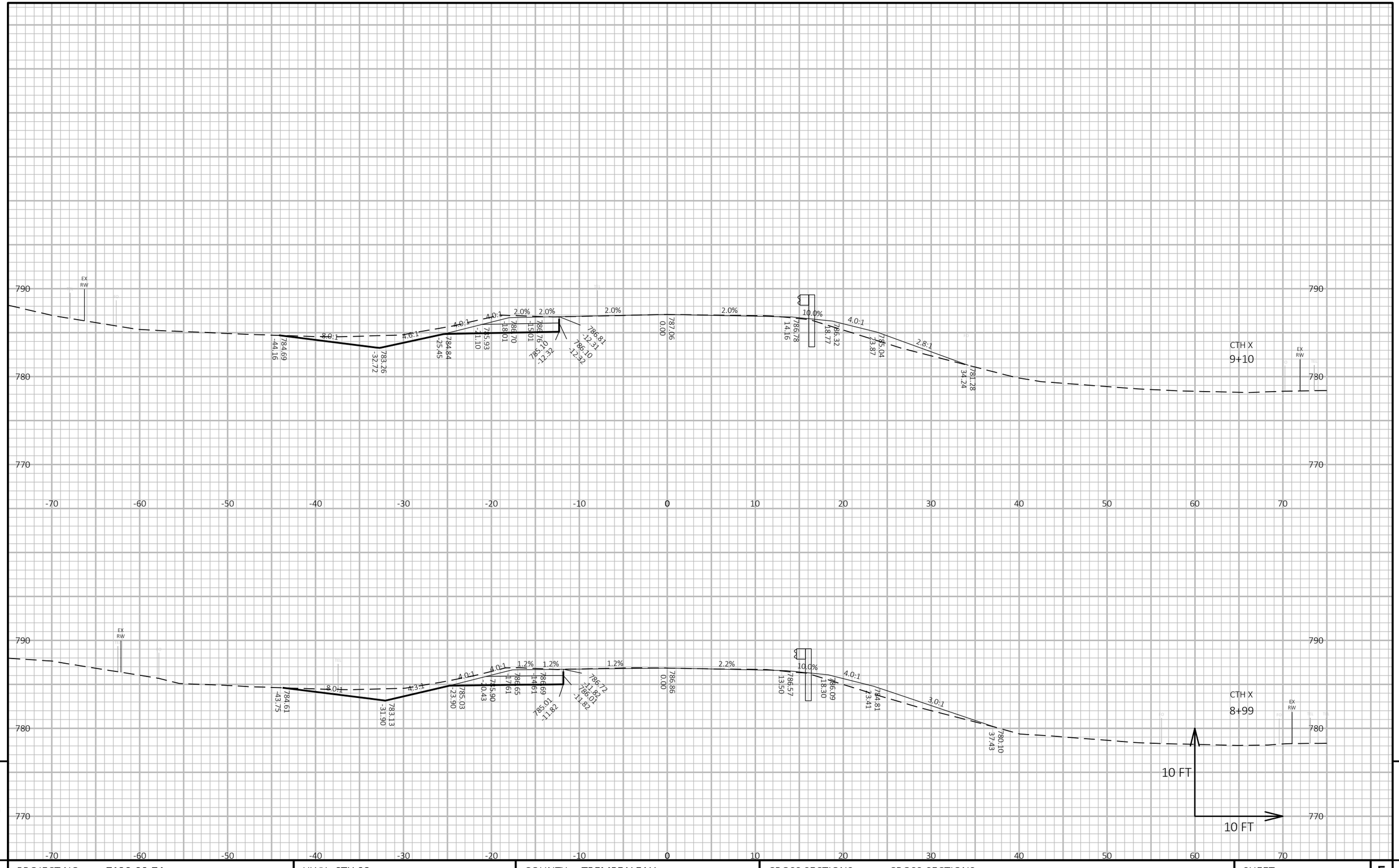
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 272	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090301

PLOT DATE : 10/19/2017 10:47 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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

WISDOT/CADDS SHEET 49



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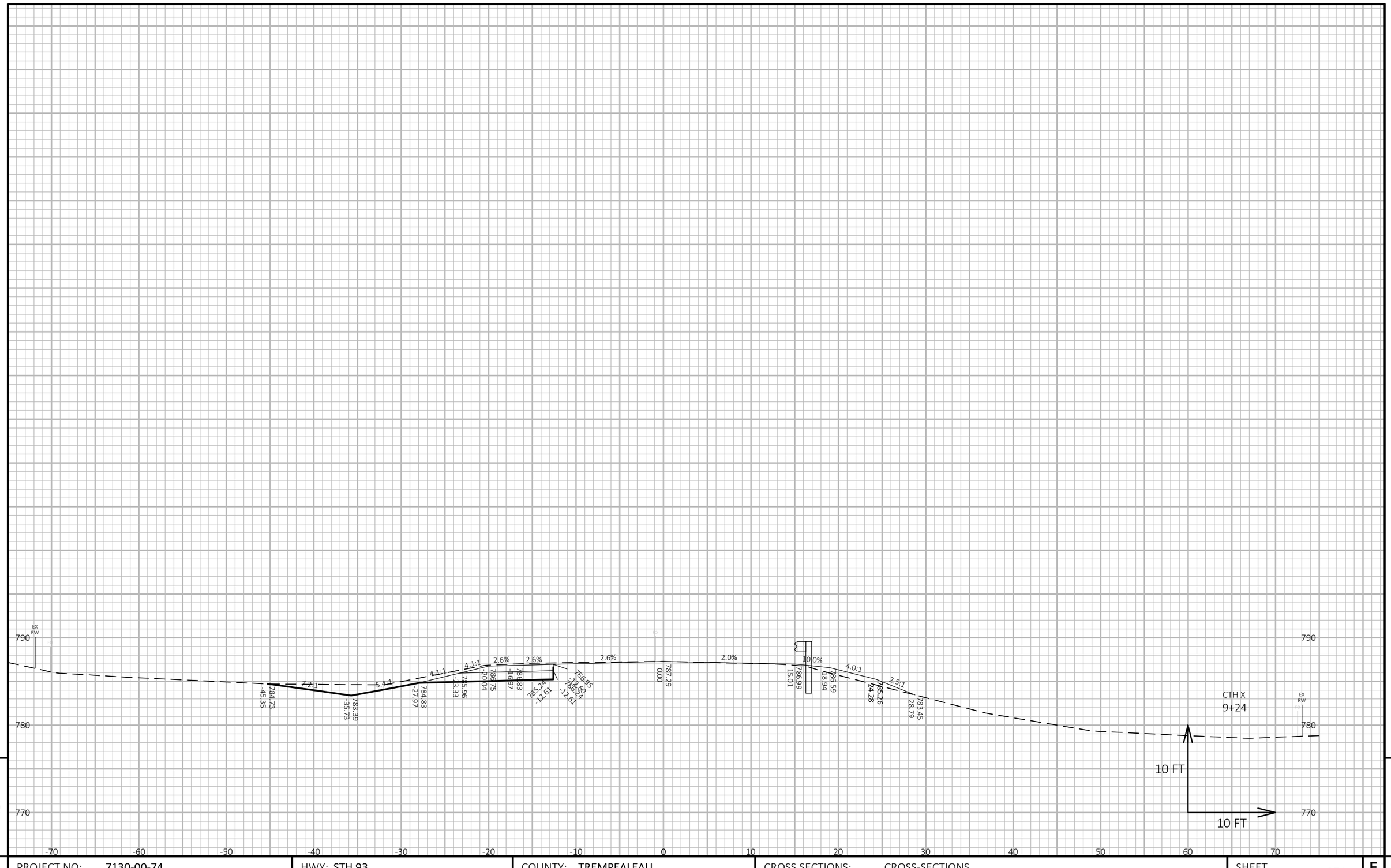
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 273	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090302

PLOT DATE : 10/19/2017 10:47 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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

WISDOT/CADDS SHEET 49



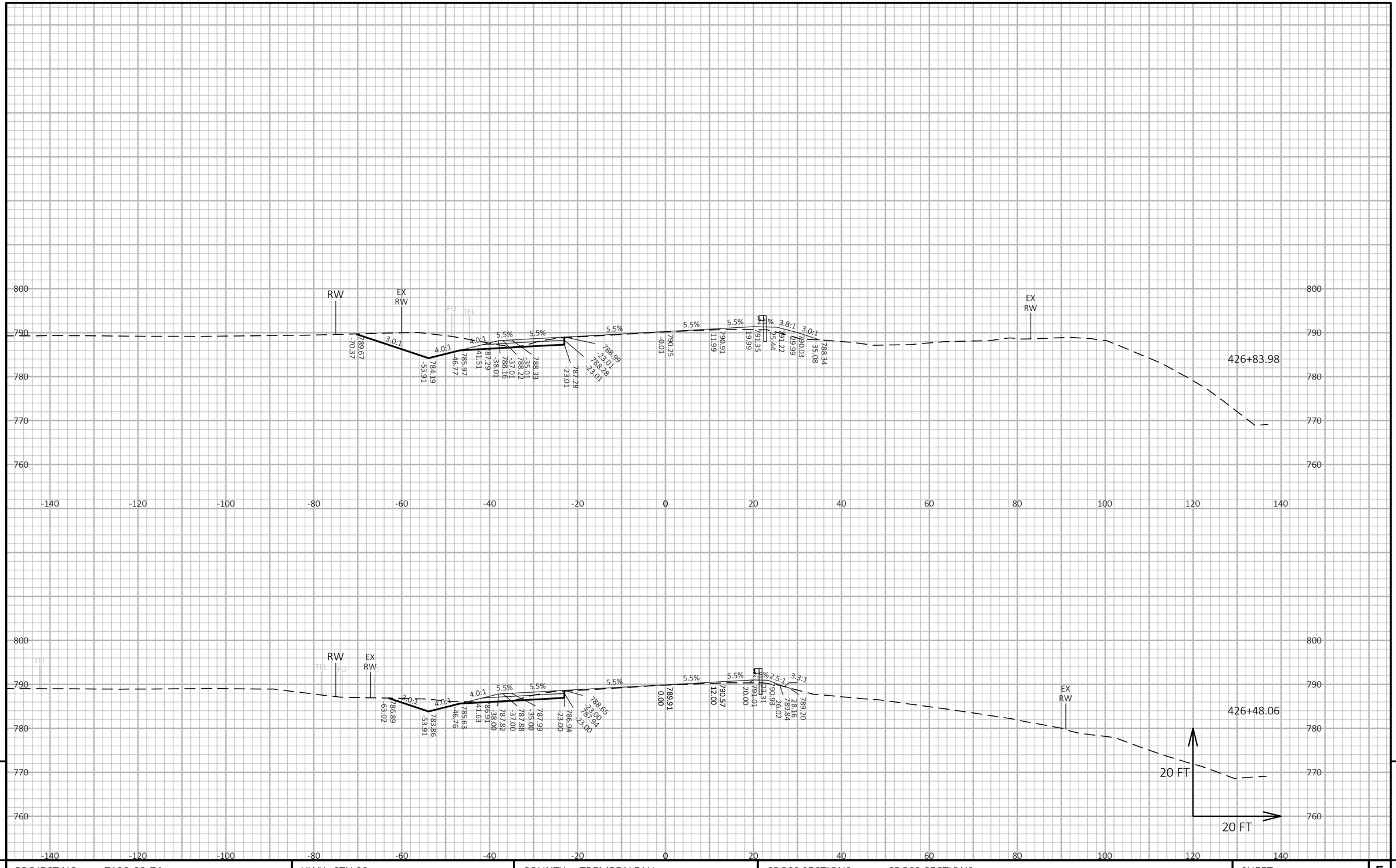
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 274	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-10FT.DWG
LAYOUT NAME - 090303

PLOT DATE : 10/19/2017 10:47 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME :

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

WISDOT/CADDS SHEET 49

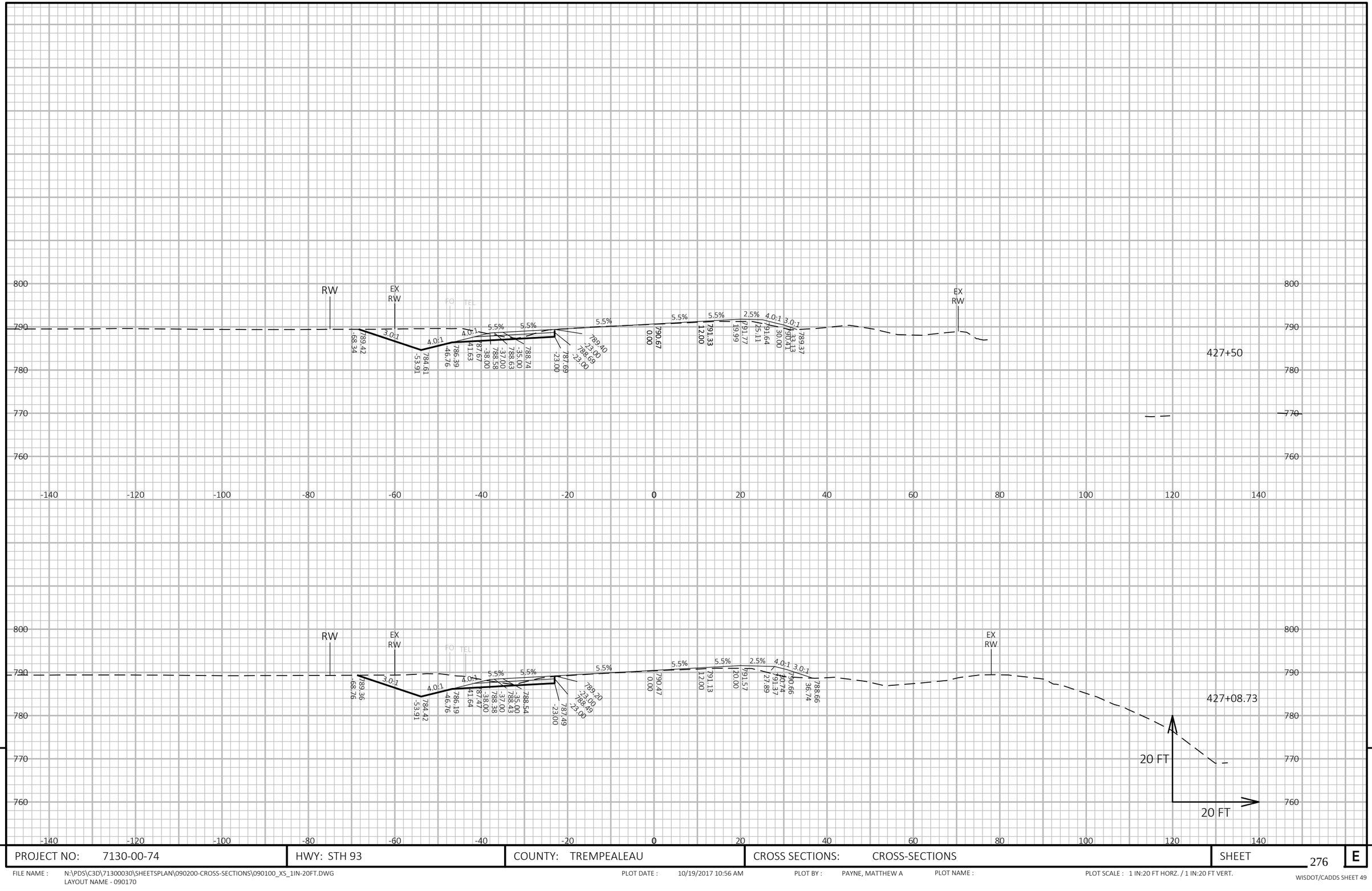


PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 275	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-20FT.DWG
LAYOUT NAME - 090169

PLOT DATE : 10/19/2017 10:56 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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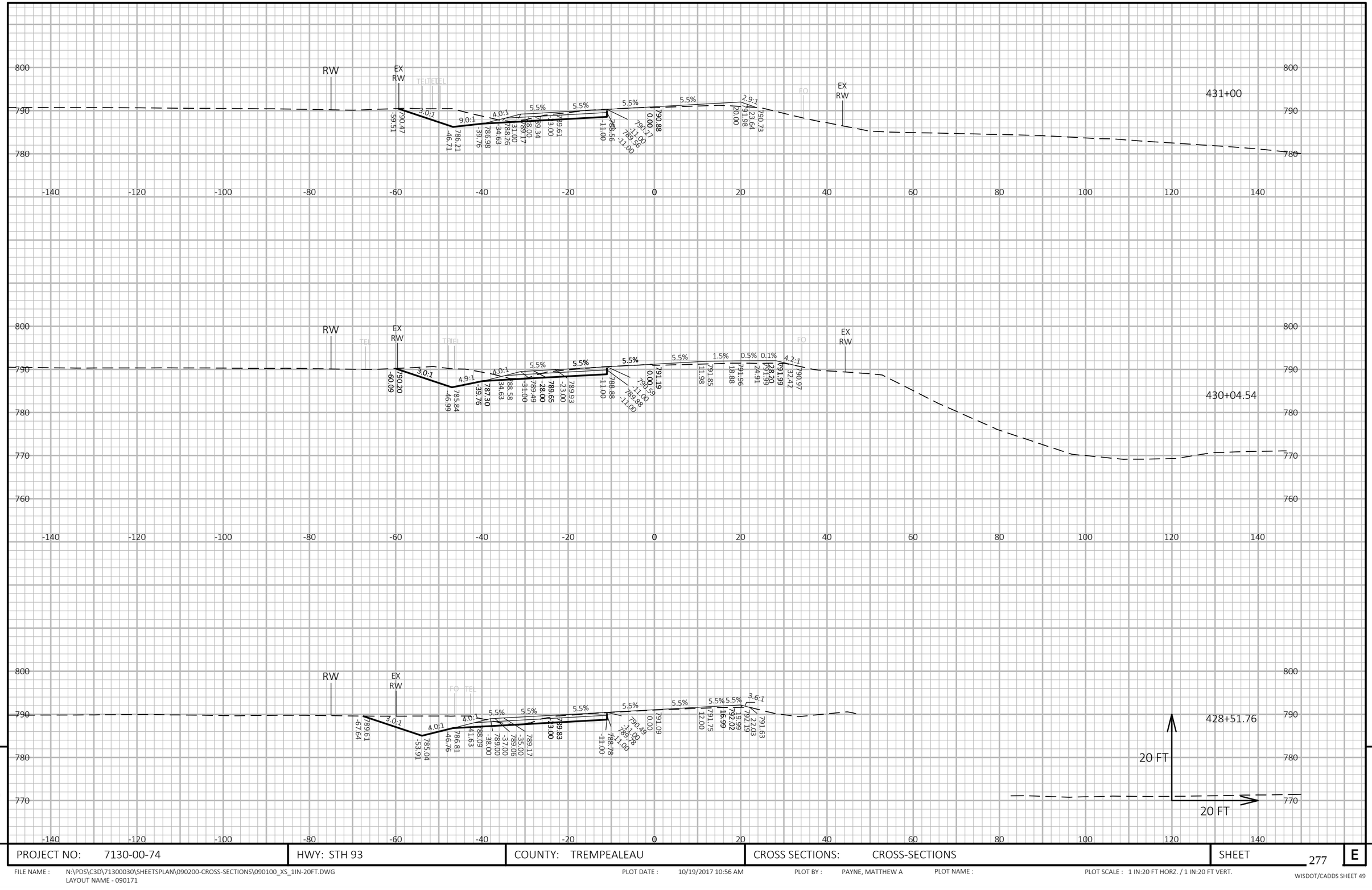
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 276	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-20FT.DWG
LAYOUT NAME - 090170

PLOT DATE : 10/19/2017 10:56 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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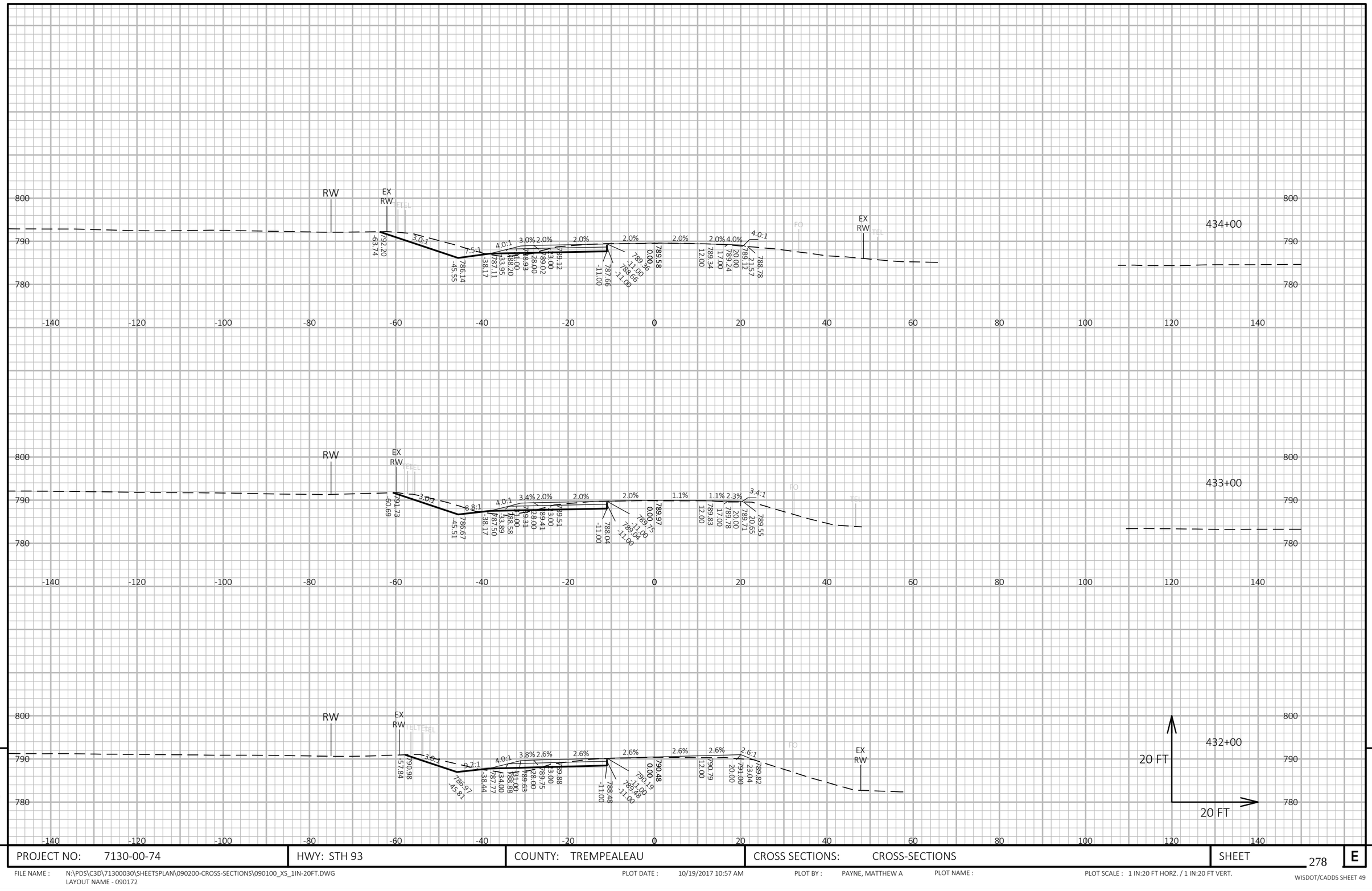
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 277	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-20FT.DWG
LAYOUT NAME - 090171

PLOT DATE : 10/19/2017 10:56 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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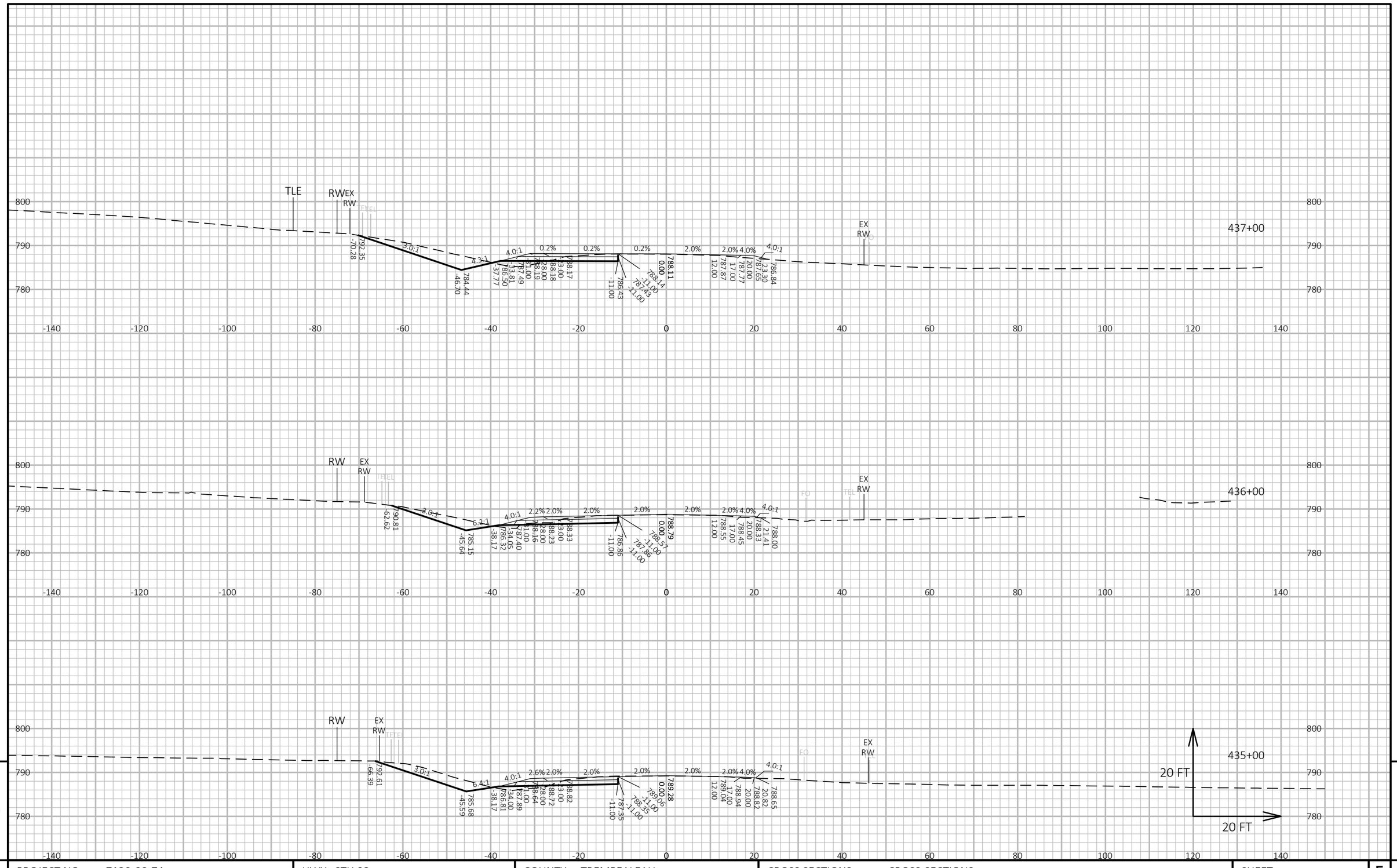
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 278	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-20FT.DWG
LAYOUT NAME - 090172

PLOT DATE : 10/19/2017 10:57 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

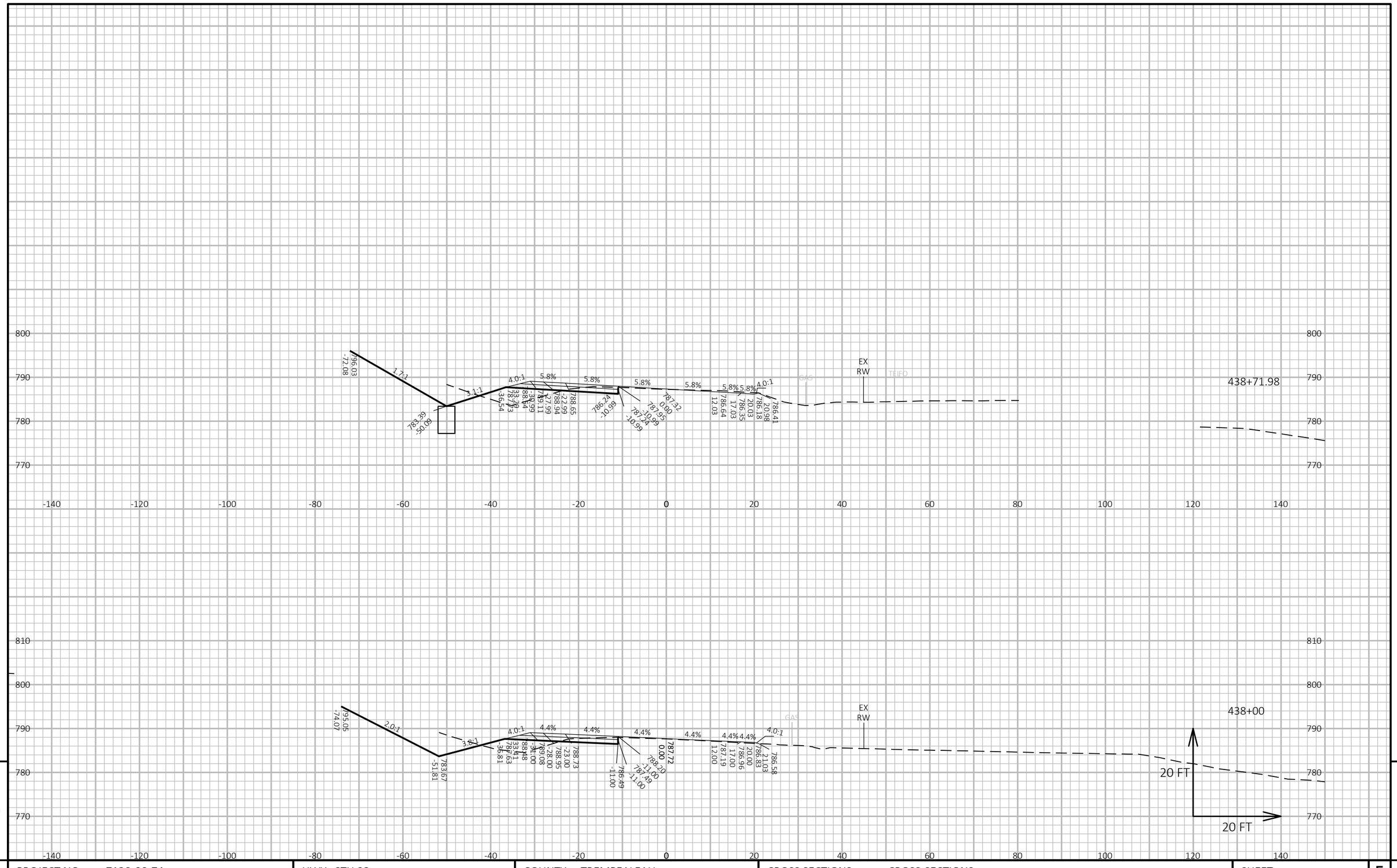


PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 279 E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-20FT.DWG
LAYOUT NAME - 090173

PLOT DATE : 10/19/2017 10:57 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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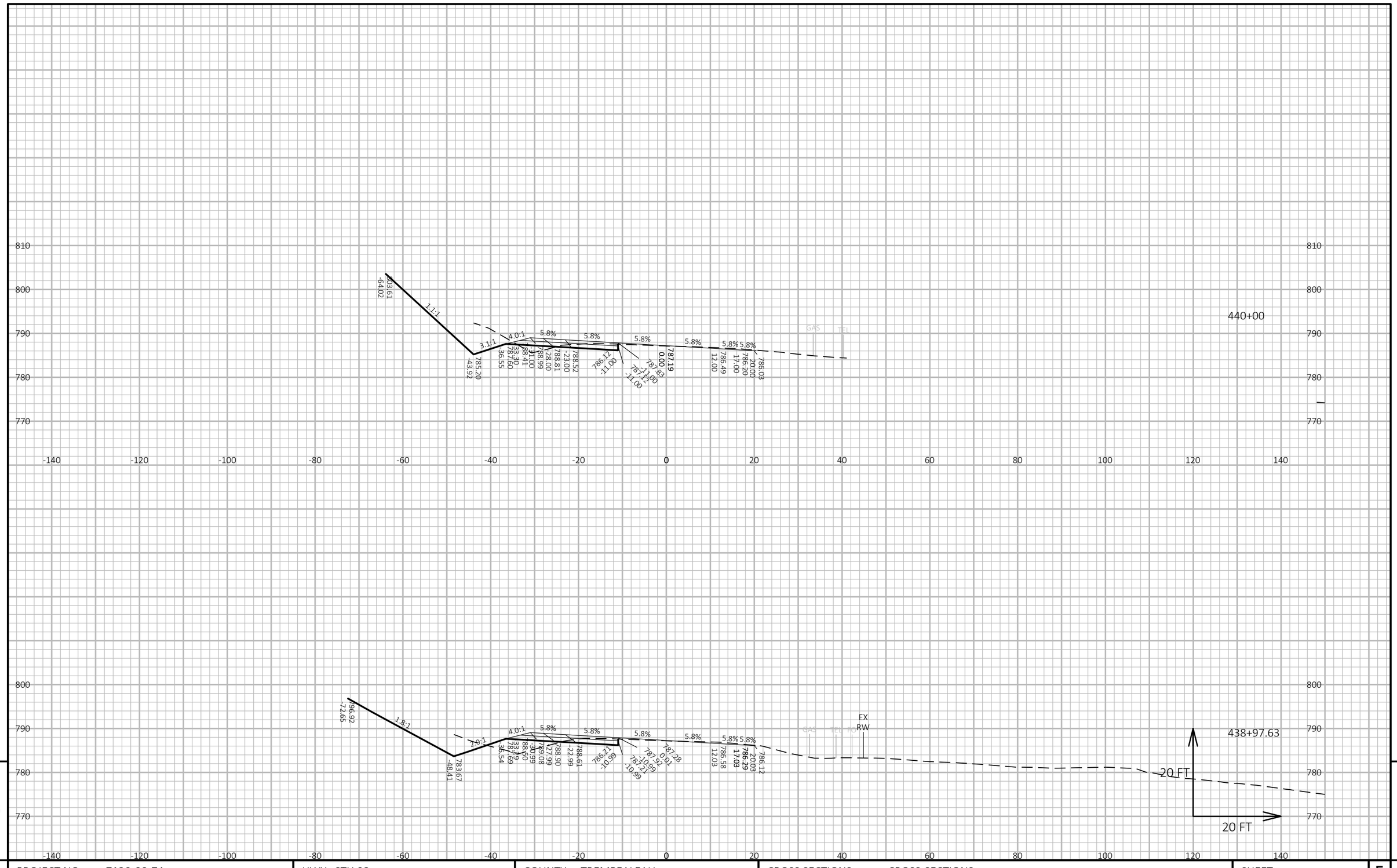
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 280	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-20FT.DWG
LAYOUT NAME - 090174

PLOT DATE : 10/19/2017 10:57 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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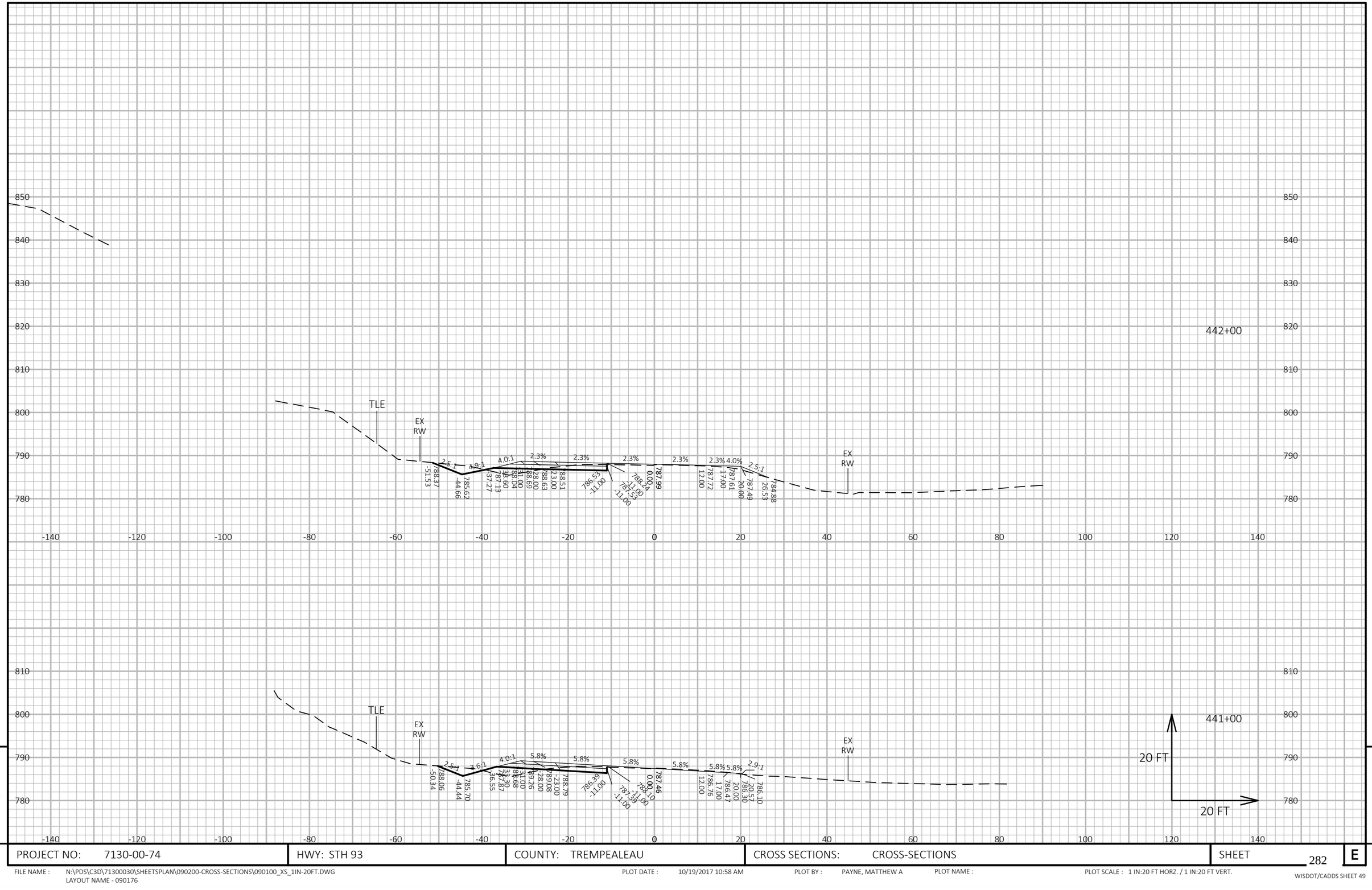
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 281	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-20FT.DWG
LAYOUT NAME - 090175

PLOT DATE : 10/19/2017 10:57 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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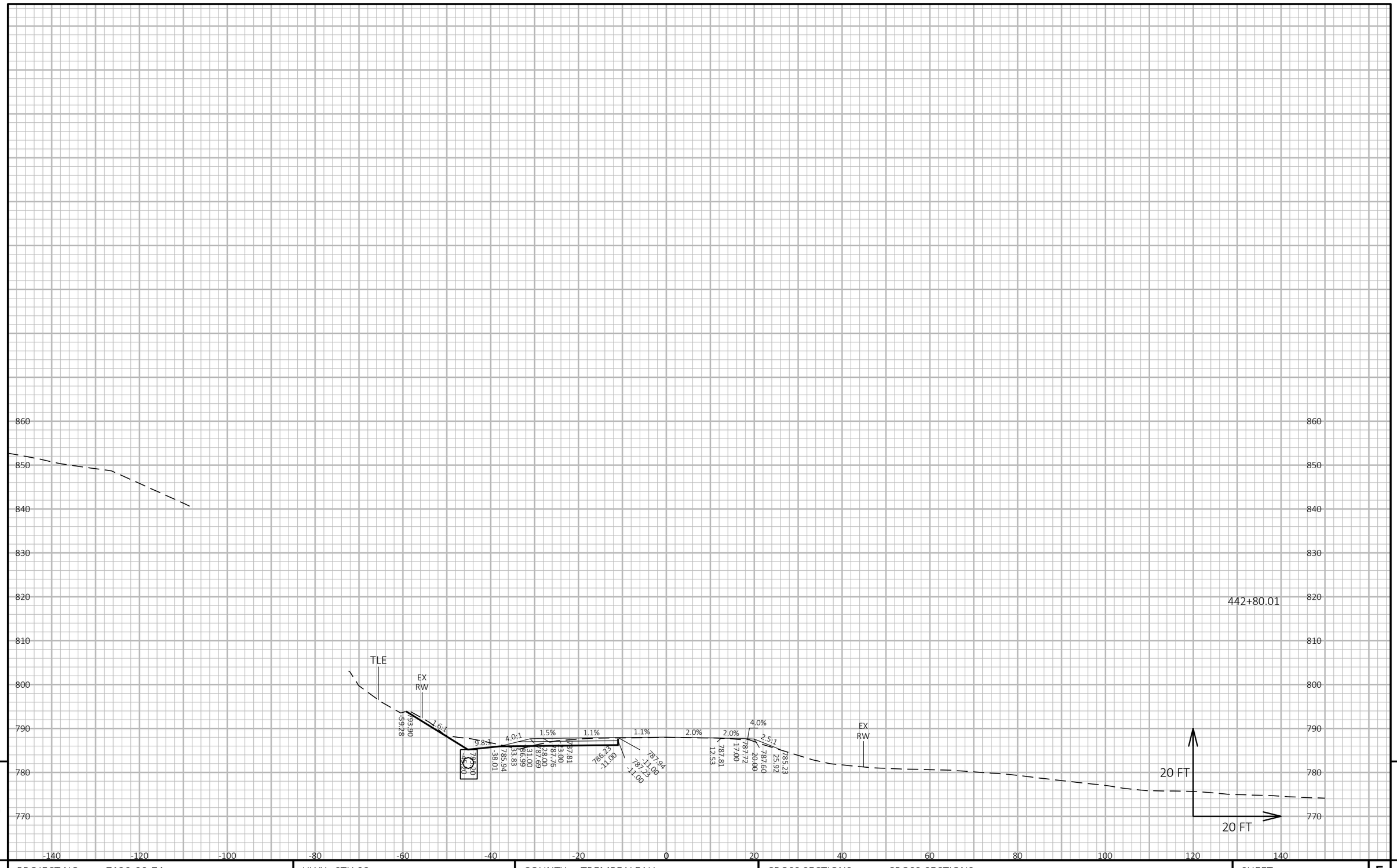
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 282	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-20FT.DWG
LAYOUT NAME - 090176
PLOT DATE : 10/19/2017 10:58 AM
PLOT BY : PAYNE, MATTHEW A
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.
WISDOT/CADDS SHEET 49



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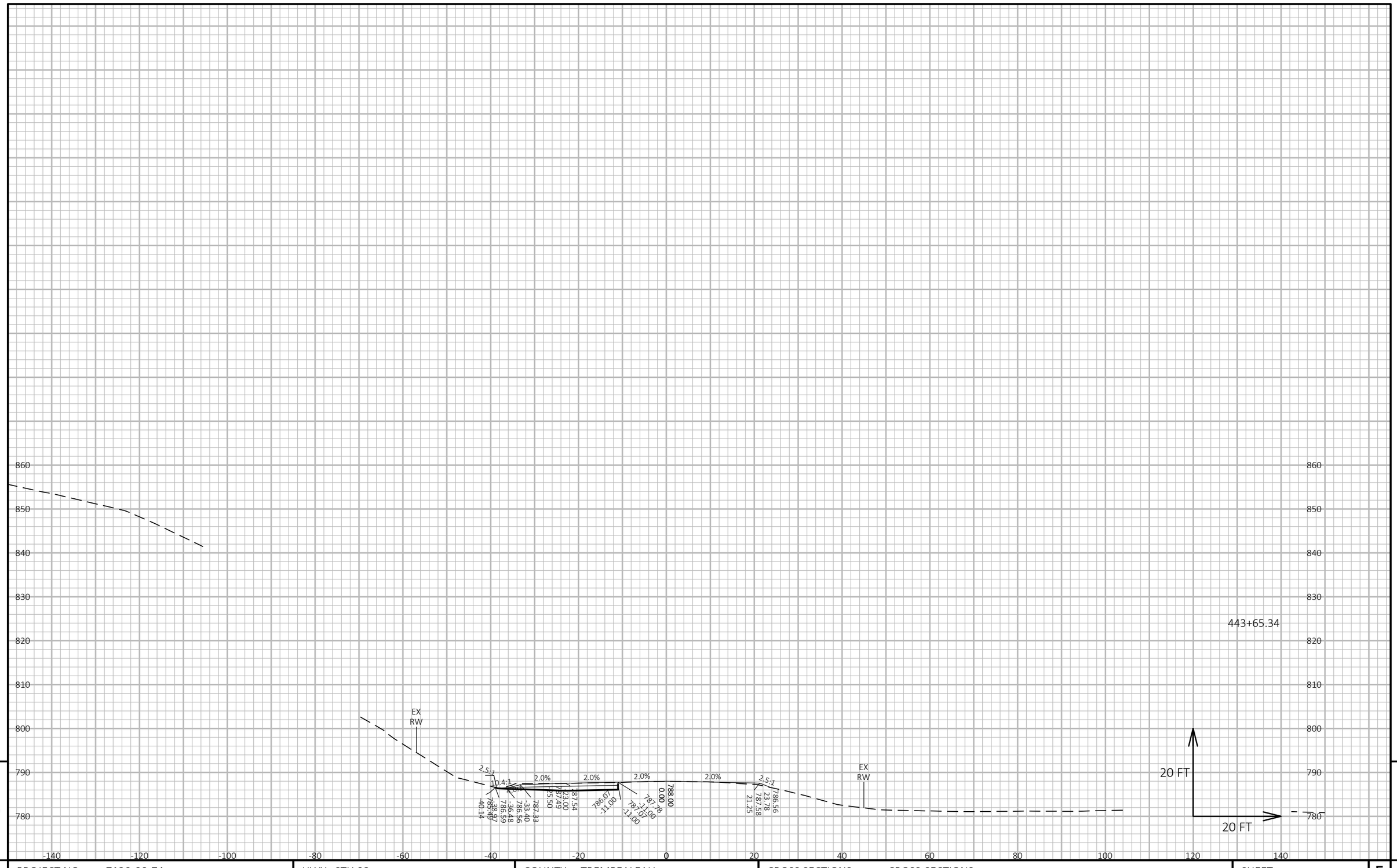
PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 283	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-20FT.DWG
LAYOUT NAME - 090177

PLOT DATE : 10/19/2017 10:58 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 7130-00-74	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CROSS-SECTIONS	SHEET 284	E

FILE NAME : N:\PDS\C3D\71300030\SHEETSPLAN\090200-CROSS-SECTIONS\090100_XS_1IN-20FT.DWG
LAYOUT NAME - 090178

PLOT DATE : 10/19/2017 10:58 AM PLOT BY : PAYNE, MATTHEW A PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov