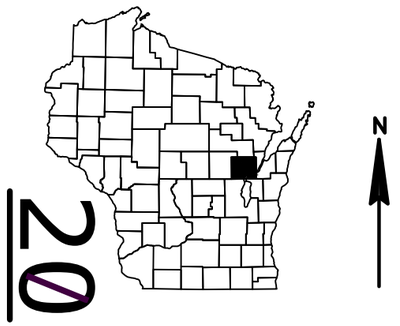
PROJECT ID: 1146-75-76
WITH: 1146-75-77

COUNTY: OUTAGAMIE

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 = 332



DESIGN DESIGNATION

A.A.D.T.	(2019)	= 12,200
A.A.D.T.	(2044)	= 21,600
D.H.V.		= 2,550
D.D.		= 62-38
T.		= 5.2%
DESIGN SPEED		= 60 MPH
ESALS		= 2,620,700

CONVENTIONAL SYMBOLS

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

STH 76 – NEW LONDON

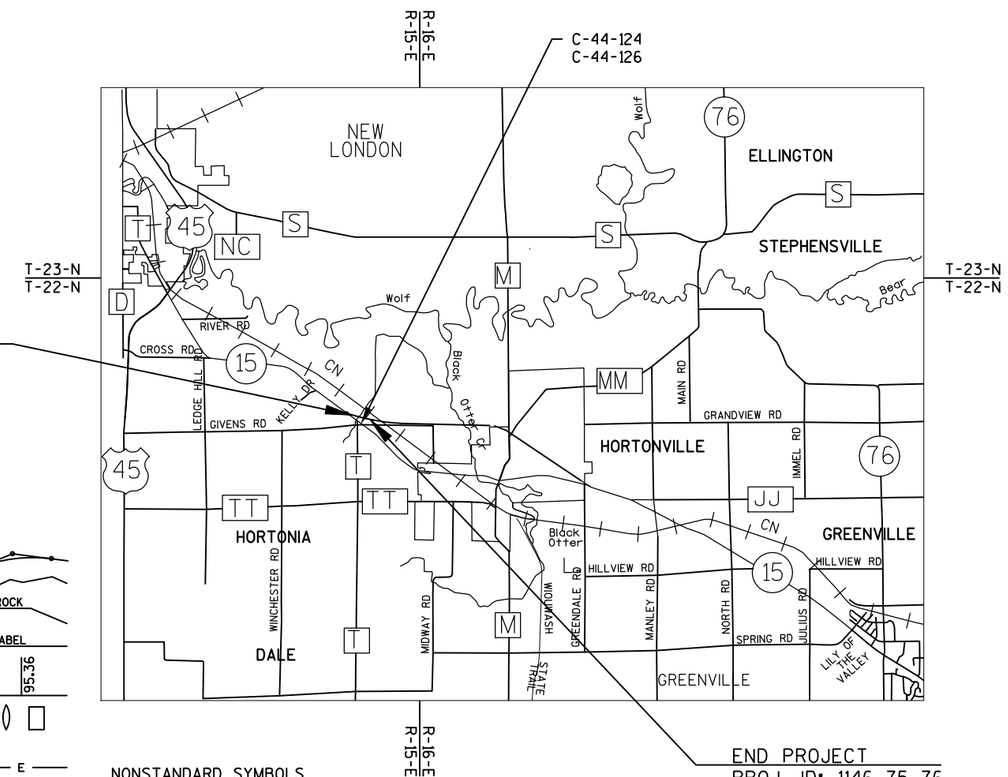
CTH T – WI CENTRAL RR

STH 15

OUTAGAMIE COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1146-75-76	WISC 2023101	1

STATE PROJECT NUMBER
1146-75-76



BEGIN PROJECT
PROJ ID: 1146-75-76
STA 256'EB'+00
Y=602275.20
X=743951.68

END PROJECT
PROJ. ID: 1146-75-76
STA 275'EB'+00

NONSTANDARD SYMBOLS
- DRIVEWAY TO BE REMOVED (X)
- PROPOSED RELOCATION
- RETAINING WALL
- DITCH
- MEDIAN DRAIN/OUTFALL

LAYOUT
SCALE 0 2 MILE

TOTAL NET LENGTH OF CENTERLINE = 0.360 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, OUTAGAMIE COUNTY, NAD83 (2007) ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAN.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCE TO THE NORTH AMERICAN VERTICAL DATUM (NAVD) 88 (2007).

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WISDOT NORTHEAST REGION
Designer	MASON SIMMONS
Project Manager	WILLIAM BERTRAND
Regional Examiner	XXX
Regional Supervisor	TAMMY RABE

APPROVED FOR THE DEPARTMENT

DATE: 7/28/2022 William R Bertrand
(Signature)

E

UTILITIES

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5024 HEFFRON STREET
STEVENS POINT, WI 54481
(715) 302-1550
RUDI.RUDIGER@CHARTERCOM.COM

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70 E. DIVISION STREET
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WE ENERGIES-ELECTRIC
CHRISTOPHER SCHULZ
800 SOUTH LYNNDALE DRIVE
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(414) 944-5553 (O)
(414) 588-0455 (M)
CHRIS.SCHULZ@WE-ENERGIES.COM

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

DNR AREA LIAISON

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DEPARTMENT OF NATURAL RESOURCES
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GREEN BAY, WI 54303
PHONE: 920-662-5472
EMAIL: MATTHEW.SCHAEVE@WISCONSIN.GOV

COUNTY SURVEYOR OR SURVEYS CONTACT PERSON

CORMAC MCINNIS
944 VANDERPERREN WAY
GREEN BAY WI, 54304
PHONE: 920-492-5638
EMAIL: CORMAC.MCINNIS@DOT.WI.GOV

ORDER OF SECTION 2 SHEETS

-GENERAL NOTES
-PROJECT OVERVIEW
-TYPICAL SECTIONS
-CONSTRUCTION DETAILS
-LIGHTING PLAN
-LANDSCAPE PLAN
-DRIVEWAY DETAILS
-INTERSECTION DETAILS
-PAVING GRADES
-EROSION CONTROL
-STORM SEWER PLAN
-SIGN PLANS
-PAVEMENT MARKING
-TRAFFIC CONTROL PLAN
-DETOUR PLAN
-ALIGNMENT DIAGRAMS

STANDARD ABBREVIATIONS

ADT	AVERAGE DAILY TRAFFIC
AEW	APRON ENDWALL
AGG	AGGREGATE
BAD	BASE AGGREGATE DENSE
BM	BENCH MARK
C&G	CURB AND GUTTER
C-C	CENTER TO CENTER
CPCM	CULVERT PIPE CORRUGATED METAL
CPRC	CULVERT PIPE REINFORCED CONCRETE
CPRCHE	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
CSD	CONCRETE SURFACE DRAIN
CTR	CENTER
CWT	HUNDRED WEIGHT
CY	CUBIC YARD
D	DEGREE OF CURVE
Δ	DELTA
DD	DIRECTIONAL DISTRIBUTION
DHV	DESIGN HOUR VOLUME
DIA OR Ø	DIAMETER
EL OR ELEV	ELEVATION
FS	FULL SUPERELEVATION
FT	FOOT
HE	HIGHWAY EASEMENT
HMA	HOT MIX ASPHALT
INCID	INCIDENTAL
INL	INLET
L	LENGTH OF CURVE
LF	LINEAR FOOT
LONG	LONGITUDINAL
LT	LEFT
MH	MANHOLE
ML OR M/L	MATCH LINE
NC	NORMAL CROWN
NTS	NOT TO SCALE
PAVT	PAVEMENT
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PI	POINT OF INTERSECTION
PLE	PERMANENT LIMITED EASEMENT
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
R	RADIUS
R/L	REFERENCE LINE
RO	RUN OFF LENGTH
RT	RIGHT
RW OR R/W	RIGHT OF WAY
SDD	STANDARD DETAIL DRAWINGS
SS	STORM SEWER
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
SSPRCHE	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
STA	STATION
SY	SQUARE YARD
SYM	SYMMETRICAL
T	TANGENT LENGTH
TEMP	TEMPORARY
TLE	TEMPORARY LIMITED EASEMENT
TYP	TYPICAL
V	VELOCITY OR DESIGN SPEED
VAR	VARIABLE OR VARIES
WM	WATER MAIN
YD	YARD

2

GENERAL NOTES

CURVE DATA IS BASED ON ARC DEFINITION.

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

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND ALL UTILITIES IN THE VICINITY OF THE PROJECT TO LOCATE THEIR FACILITIES AT LEAST THREE WORKING DAYS PRIOR TO BEGINNING WORK.
ANY UTILITY WHICH IS NOT A MEMBER OF DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

THE LOCATION OF SAW CUTS WILL BE DETERMINED OR AS APPROVED BY THE ENGINEER.
SAW CUT JOINTS SHALL BE ACCOMPLISHED WITHOUT DAMAGE TO REMAINING PORTIONS.

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

THE EXACT LOCATIONS OF ALL EROSION CONTROL ITEMS SHALL BE DETERMINED BY THE ENGINEER.

ALL RADII ARE MEASURED TO EDGE OF PAVEMENT UNLESS OTHERWISE SHOWN OR NOTED ON THE PLAN.

THE LOCATION OF EXISTING MANHOLES AS SHOWN ON THE PLANS IS APPROXIMATE.

EXISTING DRAINAGE DITCHES AND CULVERT PIPES WILL REMAIN FUNCTIONAL DURING EXCAVATION OPERATIONS.-INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES ARE APPROXIMATE AND SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES EXCEPT WHEN CONSTRUCTION OPERATIONS REQUIRE THE DRIVEWAY TO BE CLOSED. ACCESS TO THE DRIVEWAY SHALL BE RE-ESTABLISHED IMMEDIATELY AFTER WORK IS COMPLETED.

THE EXACT LOCATION OF ACCESS POINTS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER, EXCEPT FOR CONTROLLED LOCATIONS SHOWN ON THE PLAT.

DRIVEWAY SURFACE BEYOND EDGE OF SHOULDER SHALL BE REPLACED IN-KIND WITH A MINIMUM SECTION OF:
3" ASPHALTIC SURFACE OVER 6" BASE AGGREGATE DENSE 3/4-INCH FOR ASPHALTIC PRIVATE DRIVEWAYS AND FIELD ENTRANCES; 6" BASE AGGREGATE DENSE 3/4-INCH FOR GRAVEL DRIVEWAYS.

CONSTRUCTION ID: 1146-75-73
FUTURE WORK BY OTHERS

CONSTRUCTION ID: 1146-75-76

CONSTRUCTION ID: 1146-75-71 EXISTING BY OTHERS
CONSTRUCTION ID: 1146-75-77 CONCURRENT WORK

OAK

230'WB'
230'EB'
240'WB'
240'EB'
250'WB'
250'EB'
260'WB'
260'EB'
268'WB'
268'EB'
280'WB'
280'EB'
290'WB'
290'EB'
300'WB'
300'EB'
310'WB'
310'EB'

STH 15

STA AHEAD: 256'WB'+92.48
STA BK: 256'WB'+69.34
EQUATION

EQUATION
STA AHEAD: 268'WB'+90.56
STA BK: 268'WB'+27.45

C-44-124

TEMPORARY CONNECTION
EXISTING STH 15 TO NEW STH 15
STA 200'WBC'+00 TO STA 210'WBC'+67.01

B-44-289
B-44-290
R-44-17
EXISTING BY OTHERS

BEGIN CONSTRUCTION
STA 256'EB'+00

STH 15 OBLITERATION
EXISTING STH 15 TO 'OLE'
STA 2003'OBLT'+00 TO STA 2014'OBLT'+00

2010'OBLT'

EQUATION
STA AHD: 268'EB'+80.31
STA BK: 268'EB'+42.00

C-44-126

550'LW'

WEST GIVENS RD

EAST GIVENS RD

WISCONSIN CENTRAL LTD

80'OLW'

65'OLW'

70'OLW'

OLD STH 15 WEST

75'OLW'

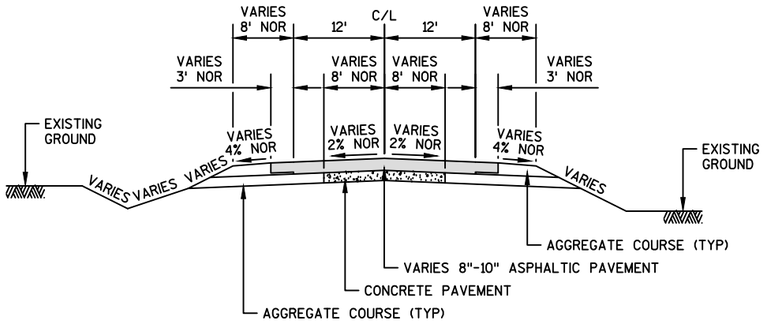
C.TH T

END CONSTRUCTION
STA 275'EB'+00

N

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	PROJECT OVERVIEW	SHEET 4	E

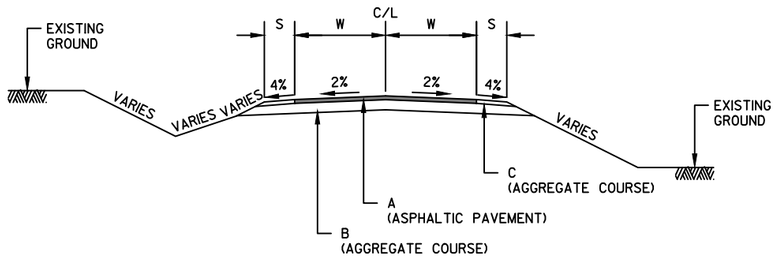
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WISDOT/CADDS SHEET 42



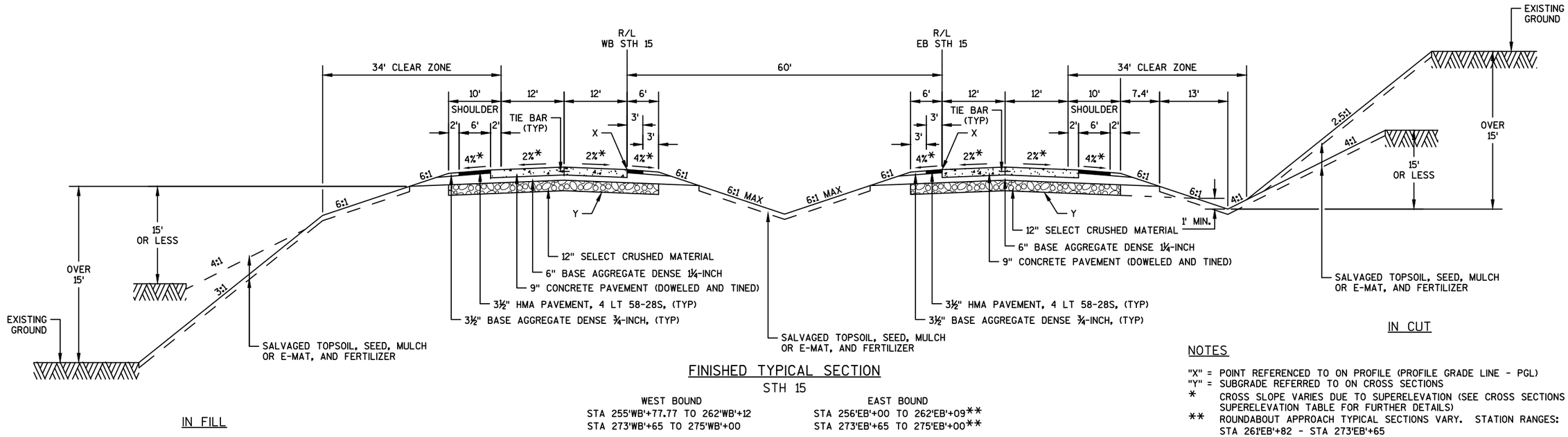
EXISTING TYPICAL SECTION
STH 15

STA 219+50 TO STA 266+57
STA 50+00 TO STA 69+50 (OLD STH 15 WEST ALIGNMENT)

LOCAL ROADS					
ROAD	PAVEMENT (NOR)		AGGREGATE SHOULDER (NOR)		BASE (NOR)
	WIDTH (W)	THICKNESS (A)	WIDTH (S)	THICKNESS (C)	THICKNESS (B)
GIVENS RD (WEST)	12'	3"	2'	3"	8"
GIVENS RD (EAST)	10'	3"	2'	3"	8"



EXISTING TYPICAL SECTION
LOCAL ROADS - SEE TABLE



IN FILL

IN CUT

FINISHED TYPICAL SECTION

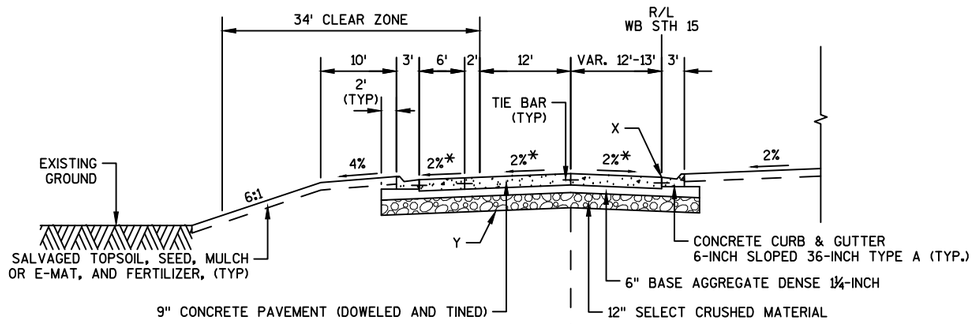
STH 15

WEST BOUND	EAST BOUND
STA 255'WB'+77.77 TO 262'WB'+12	STA 256'EB'+00 TO 262'EB'+09**
STA 273'WB'+65 TO 275'WB'+00	STA 273'EB'+65 TO 275'EB'+00**

NOTES

"X" = POINT REFERENCED TO ON PROFILE (PROFILE GRADE LINE - PGL)
"Y" = SUBGRADE REFERRED TO ON CROSS SECTIONS
* CROSS SLOPE VARIES DUE TO SUPERELEVATION (SEE CROSS SECTIONS AND SUPERELEVATION TABLE FOR FURTHER DETAILS)
** ROUNDABOUT APPROACH TYPICAL SECTIONS VARY. STATION RANGES:
STA 261'EB'+82 - STA 273'EB'+65

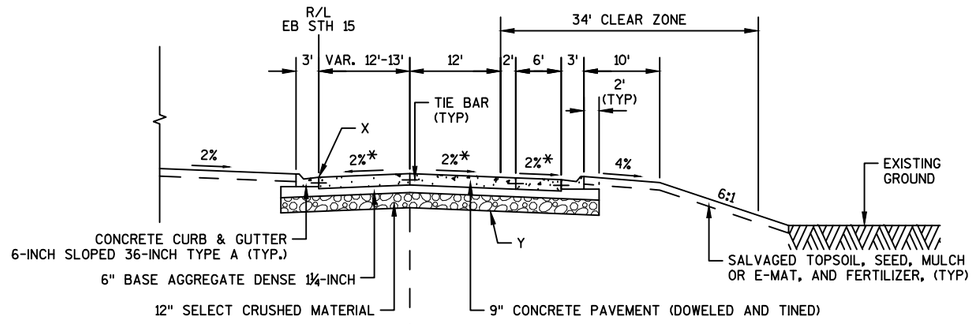
PROJECT NO: 114675-76	HWY: STH 15	COUNTY: OUTAGAMIE	TYPICAL SECTIONS - STH 15	SHEET 6	E



FINISHED TYPICAL HALF SECTION

STH 15

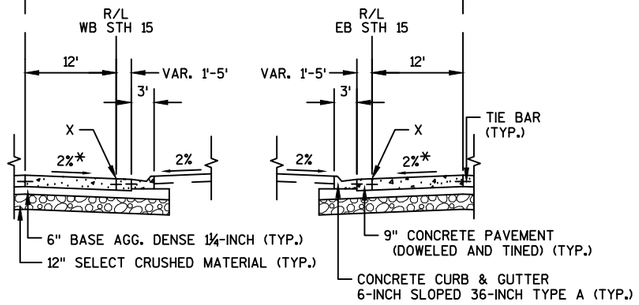
STA 262'WB'+12 - STA 265'WB'+39
STA 270'WB'+07 - STA 272'WB'+89



FINISHED TYPICAL HALF SECTION

STH 15

STA 262'EB'+67 - STA 265'EB'+46
STA 270'EB'+15 - STA 273'EB'+65

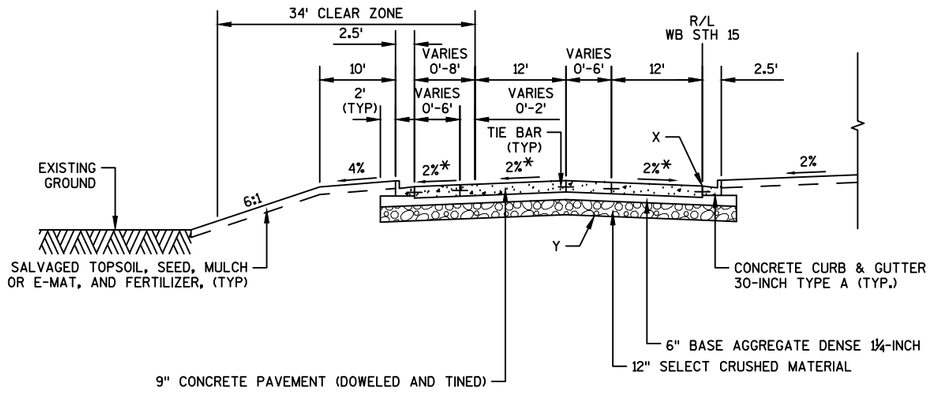


FINISHED TYPICAL PARTIAL SECTION

STH 15

STA 272'WB'+89* - STA 273'WB'+65
STA 262'EB'+09 - STA 262'EB'+67*

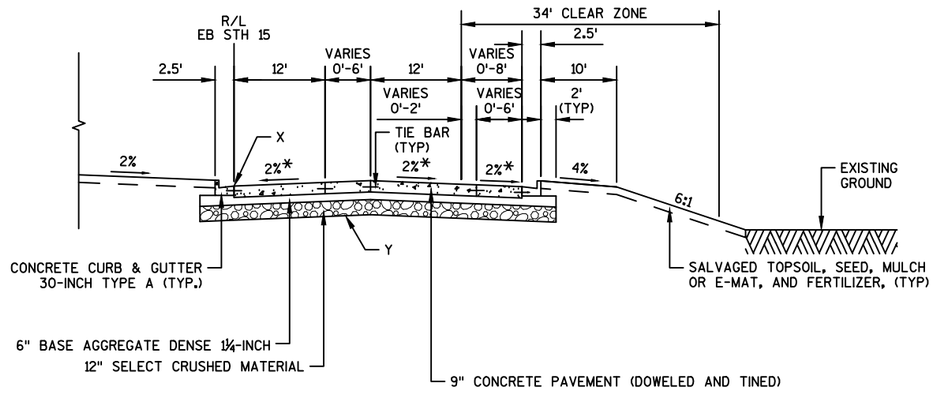
*STATION IS APPROXIMATE. MATCH NEAREST MAINLINE CONTRACTION JOINT



FINISHED TYPICAL HALF SECTION

STH 15

STA 265'WB'+39 - STA 266'WB'+63
STA 269'WB'+06 - STA 270'WB'+07



FINISHED TYPICAL HALF SECTION

STH 15

STA 265'EB'+46 - STA 266'EB'+55
STA 268'EB'+95 - STA 270'EB'+15

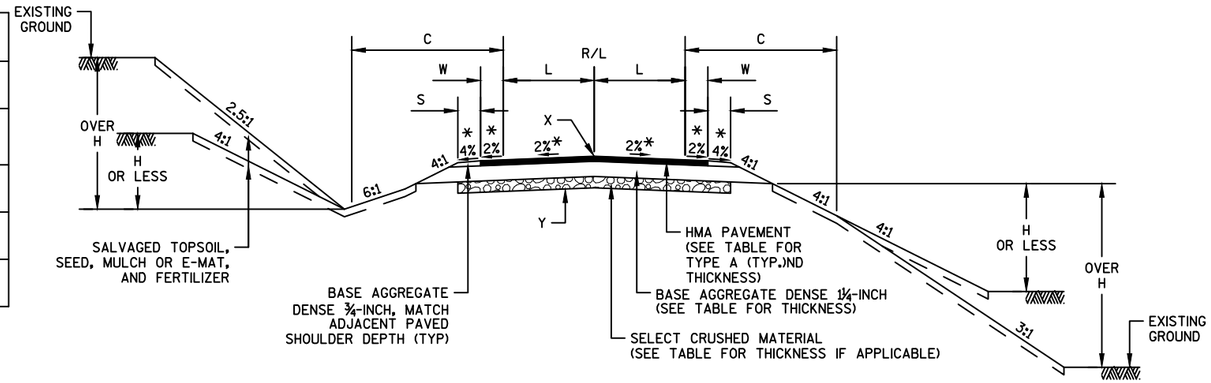
NOTES

"X" = POINT REFERENCED TO ON PROFILE (PROFILE GRADE LINE - PGL)
"Y" = SUBGRADE REFERRED TO ON CROSS SECTIONS
* CROSS SLOPE VARIES DUE TO SUPERELEVATION (SEE CROSS SECTIONS AND SUPERELEVATION TABLE FOR FURTHER DETAILS)

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	TYPICAL SECTIONS - STH 15	SHEET 7	E

LOCAL ROADS

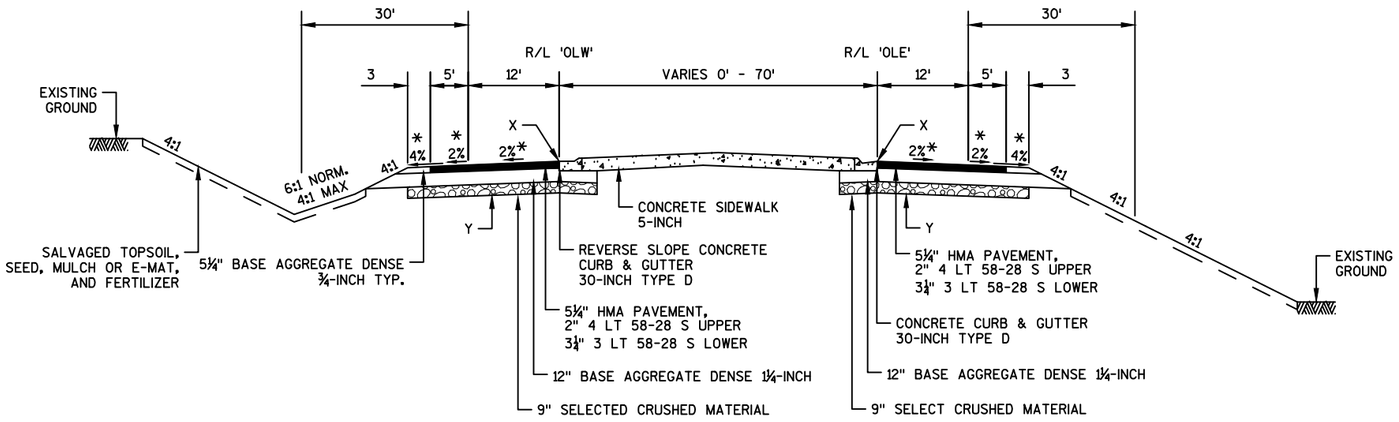
ROAD	PAVEMENT		AGGREGATE SHOULDER	CLEAR ZONE	SIDE SLOPE	PAVEMENT STRUCTURE				HMA PAVEMENT LAYER THICKNESS	
	LANE WIDTH (L)	SHOULDER WIDTH (W)	WIDTH (S)	WIDTH (C)	HEIGHT (H)	HMA TYPE	HMA THICKNESS	B.A.D. 1¼-INCH THICKNESS	SELECTED CRUSHED MATERIAL THICKNESS	UPPER LAYER	LOWER LAYER
GIVENS RD (WEST)	11'	1'	4'	14'	10'	4 LT 58-28 S UPPER 3 LT 58-28 S LOWER	4.0"	12.0"	N/A	1 3/4"	2 1/4"
GIVENS RD (EAST)	10'	0'	3'	14'	10'	4 LT 58-28 S UPPER 3 LT 58-28 S LOWER	4.0"	12.0"	N/A	1 3/4"	2 1/4"
OLD STH 15 WEST	12'	5'	3'	30'	15'	4 LT 58-28 S UPPER 3 LT 58-28 S LOWER	5.25"	12.0"	9.0"	2"	3 1/4"



FINISHED TYPICAL SECTION
LOCAL ROADS - SEE TABLE

NOTES

"X" = POINT REFERENCED TO ON PROFILE (PROFILE GRADE LINE - PGL)
"Y" = SUBGRADE REFERRED TO ON CROSS SECTIONS
* CROSS SLOPE VARIES DUE TO SUPERELEVATION (SEE CROSS SECTIONS AND SUPERELEVATION TABLE FOR FURTHER DETAILS)



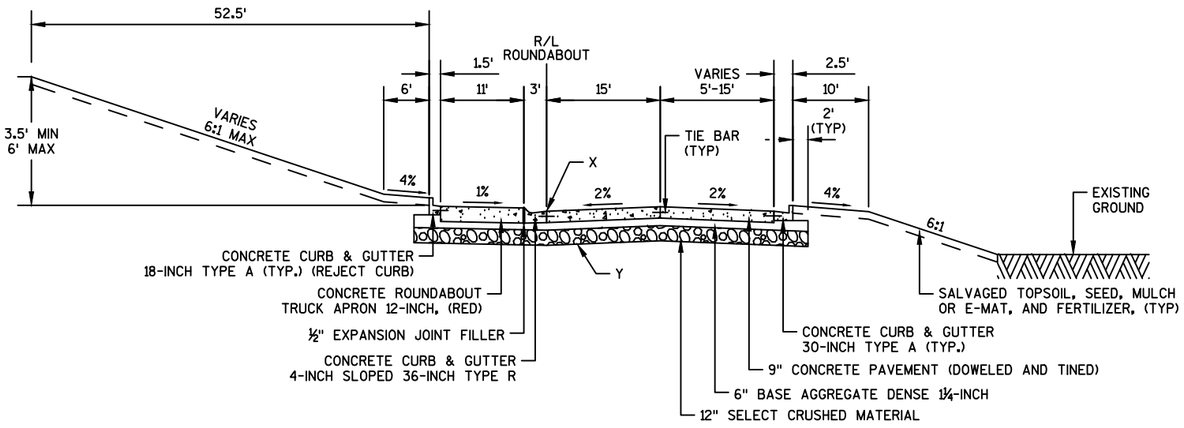
IN CUT

FINISHED TYPICAL SECTION

OLD STH 15 WEST

STA 50'OLE'+00 TO STA 54'OLE'+91

IN FILL



FINISHED TYPICAL HALF SECTION

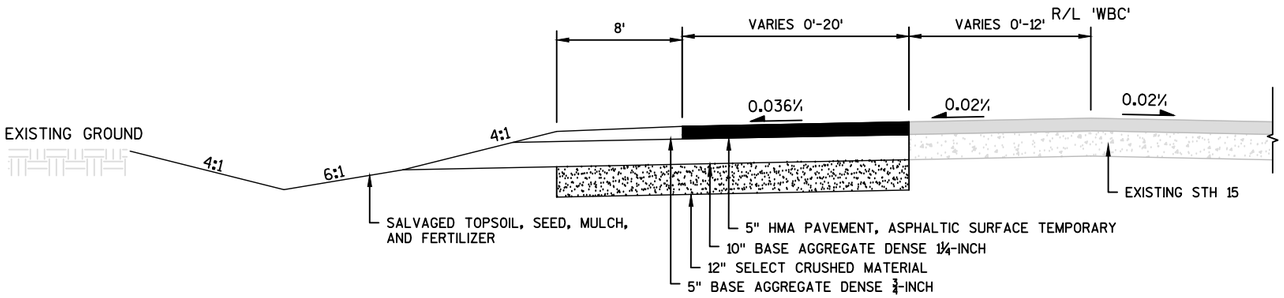
ROUNDABOUT

STA 10'TR'+00.00 - STA 14'TR'+27.25

NOTES

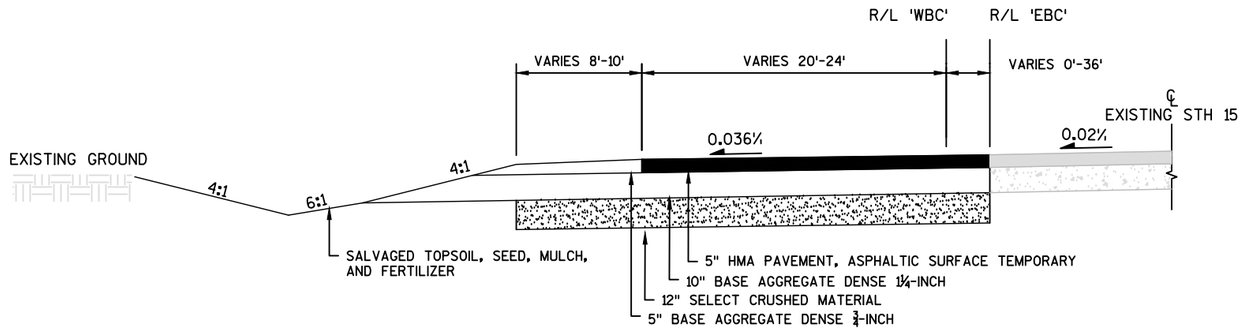
"X" = POINT REFERENCED TO ON PROFILE (PROFILE GRADE LINE - PGL)
"Y" = SUBGRADE REFERRED TO ON CROSS SECTIONS
* CROSS SLOPE VARIES DUE TO SUPERELEVATION (SEE CROSS SECTIONS AND SUPERELEVATION TABLE FOR FURTHER DETAILS)

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	TYPICAL SECTIONS - ROUNDABOUT & OLD STH 15 WEST	SHEET 9	E



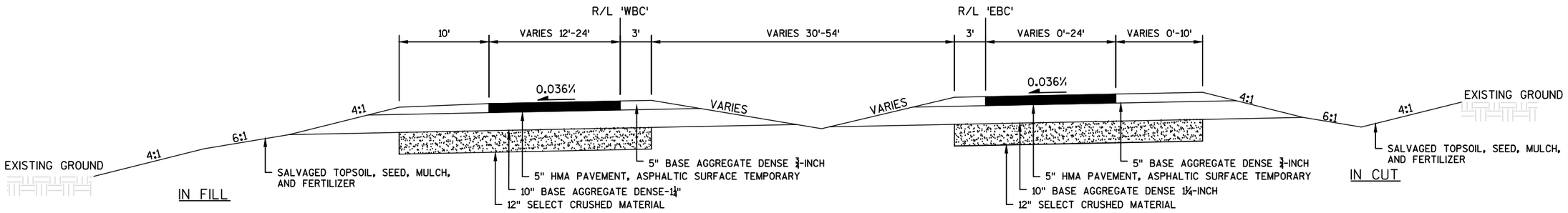
STAGE 2 - TEMPORARY CONNECTION
EXISTING STH 15 TO NEW STH 15

STA 200'WBC'+00 TO STA 201'WBC'+74.85



STAGE 2 - TEMPORARY CONNECTION
EXISTING STH 15 TO NEW STH 15

STA 201'WBC'+74.85 TO STA 205'WBC'+11.31

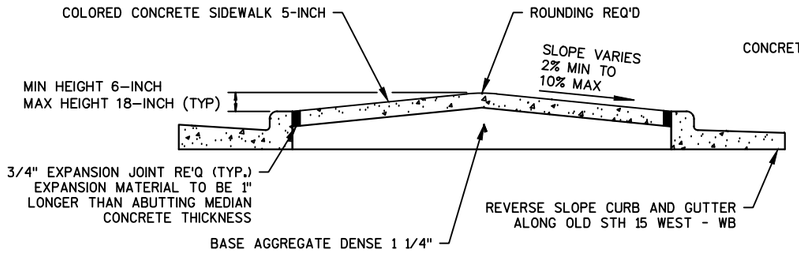


STAGE 2 - TEMPORARY CONNECTION
EXISTING STH 15 TO NEW STH 15

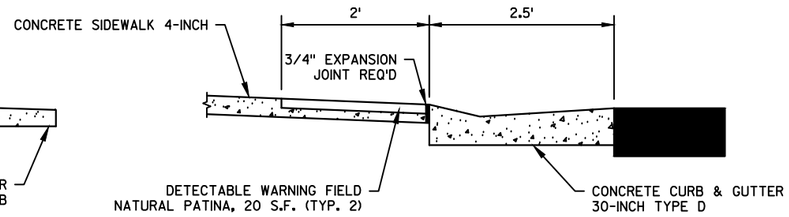
STA 205'WBC'+11.31 TO STA 210'WBC'+67.01

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	TYPICAL SECTIONS - TEMPORARY CONNECTION	SHEET 10	E

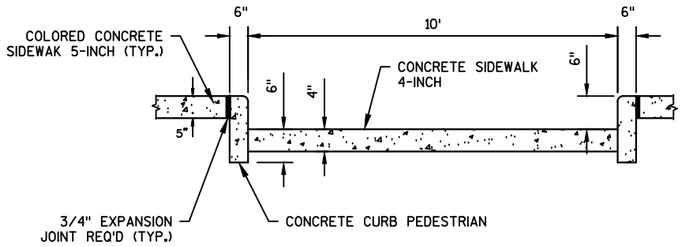
FILE NAME : C:\USERS\MUTHCM\DOCUMENTS\11467571-UPDATED\11467571\SHEETSPLAN\11467576\11467576_020301_TS.DWG
LAYOUT NAME - 020306_TS
PLOT DATE : 7/20/2022 2:09 PM PLOT BY : MUTH, CAMERON PLOT NAME : PLOT SCALE : 0.099999
WISDOT/CADDS SHEET 42



SECTION A–A



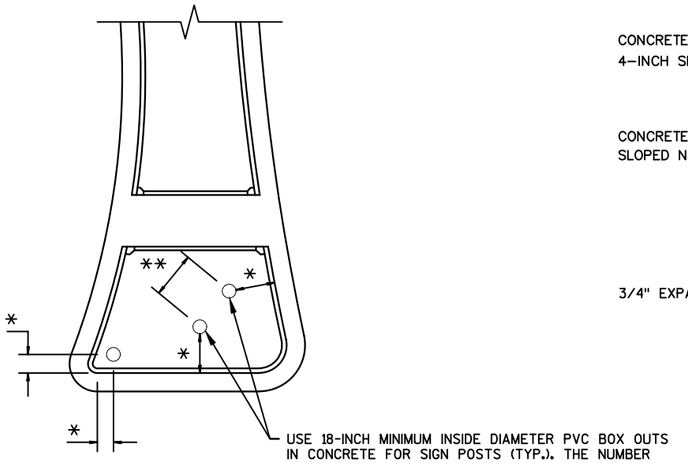
SECTION B–B



SECTION C–C

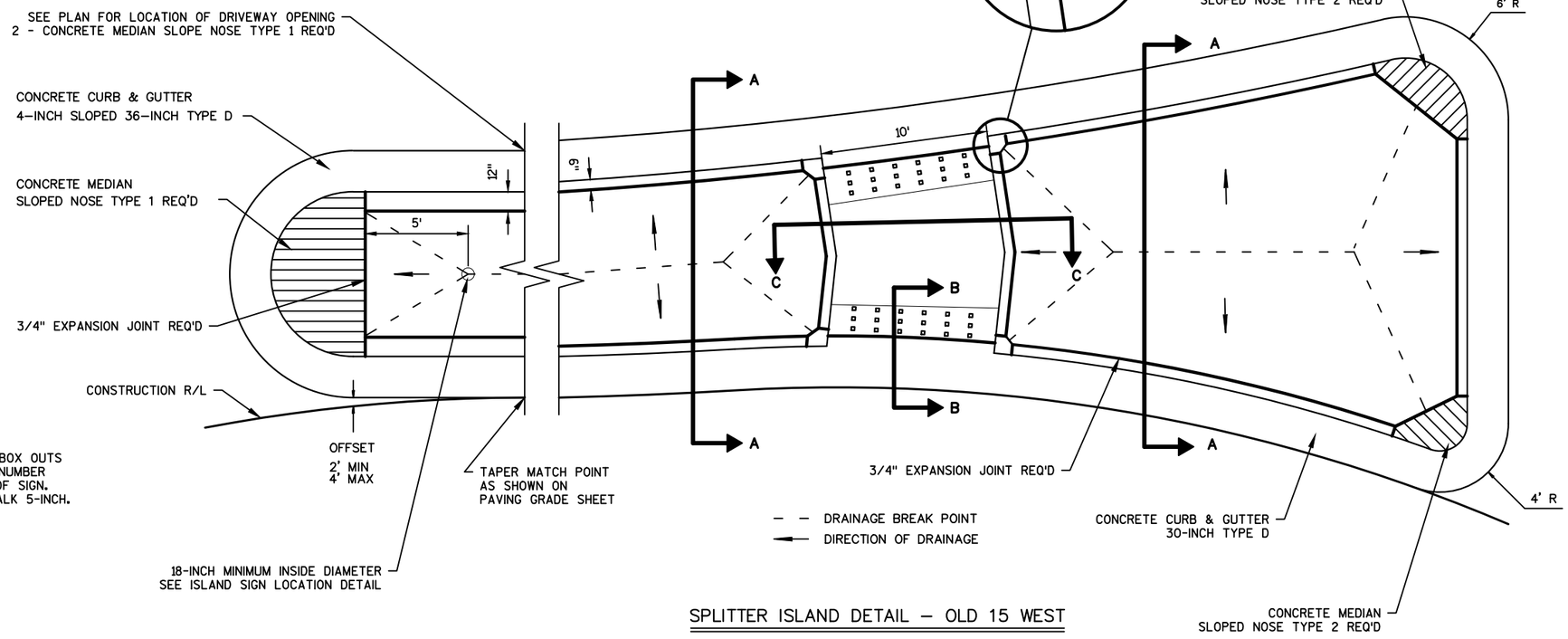
* DISTANCE TO BE LAID OUT IN THE FIELD BASED ON SIGN SIZE. TWO FOOT MINIMUM CLEARANCE BETWEEN THE EDGE OF SIGN AND THE FACE OF CURB.

** SEE A4–4 SIGN PLATE FOR POST SPACING REQUIREMENTS.

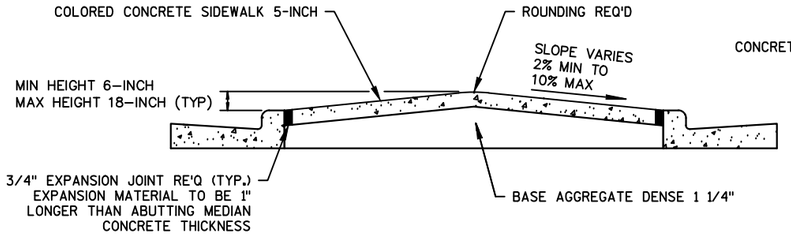


ISLAND SIGN LOCATION DETAIL (TYP.)

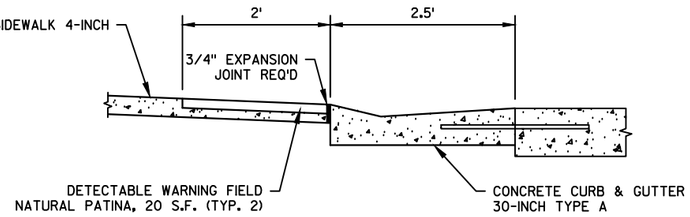
NOTIFY THE REGIONAL TRAFFIC UNIT AT 920–492–5653 A MINIMUM OF TWO WEEKS PRIOR TO THE NEED FOR SIGN PLACEMENT TO ALLOW FOR STAKING OF ANY PERMANENT SIGNING REQUIRED ON THE PROJECT.



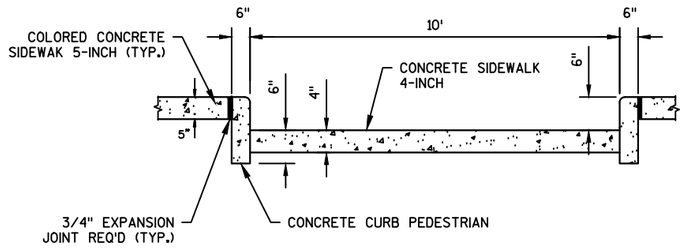
SPLITTER ISLAND DETAIL – OLD 15 WEST



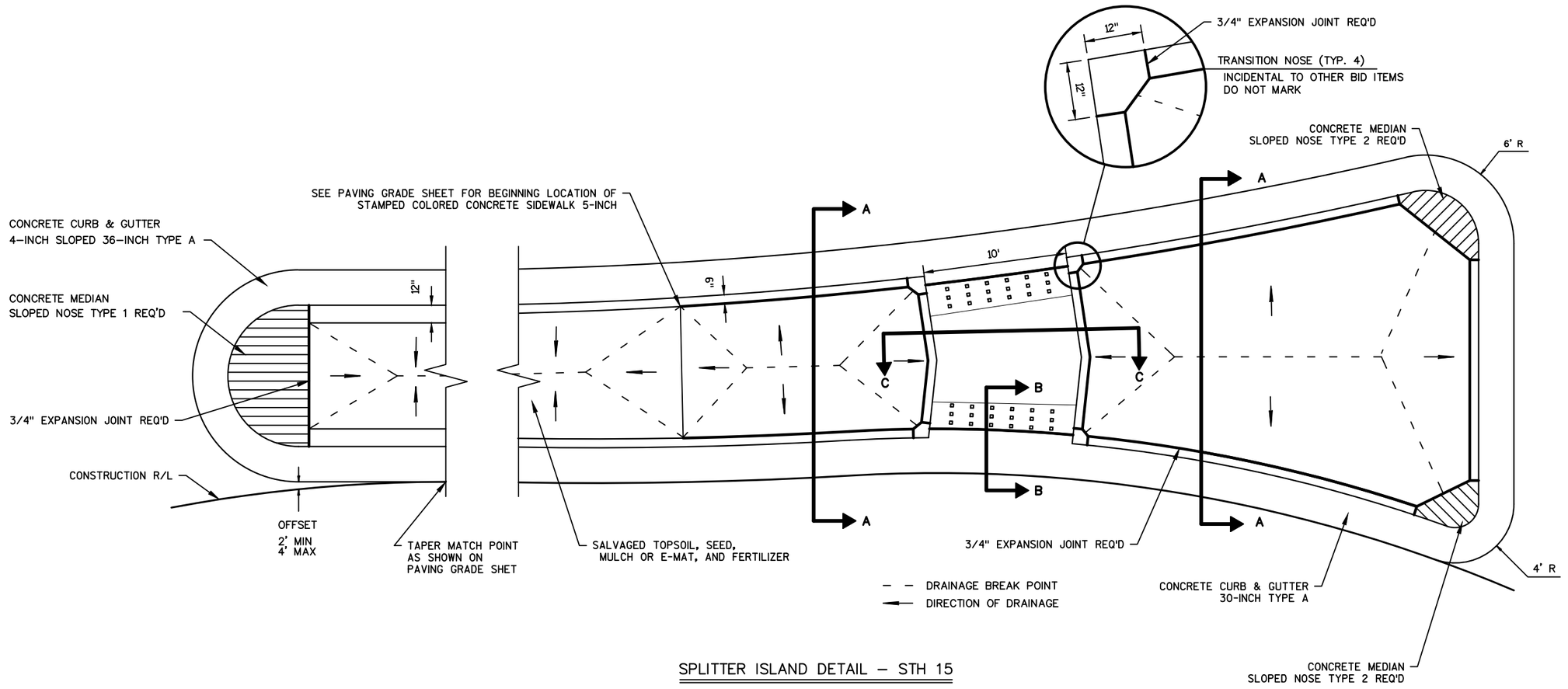
SECTION A–A



SECTION B–B



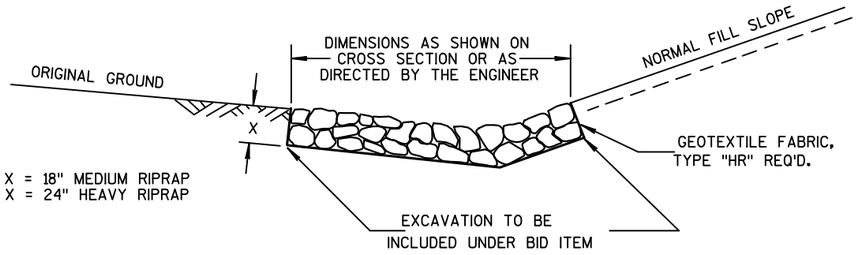
SECTION C–C



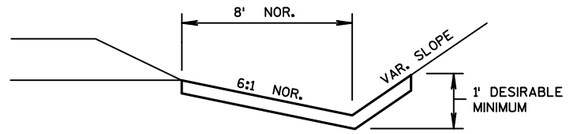
SPLITTER ISLAND DETAIL – STH 15

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CONSTRUCTION DETAILS - SPLITTER ISLANDS: STH 15	SHEET 12	E

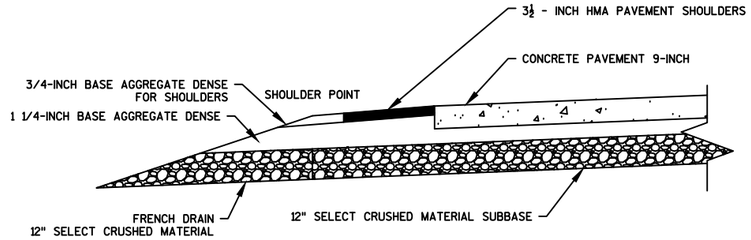
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1146-75-76 PLAN - 021004_CD
PLOT DATE : 7/20/2022 2:22 PM PLOT BY : MUTH, CAMERON PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



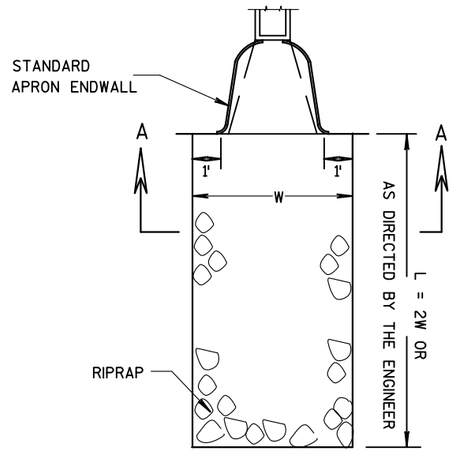
DETAIL FOR RIPRAP IN DITCHES

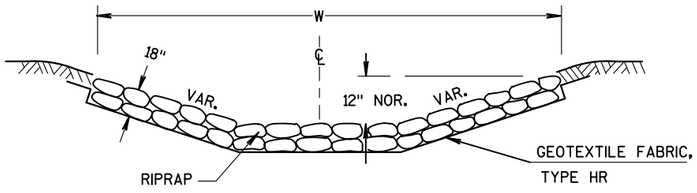


EROSION MAT DETAIL FOR DITCHES



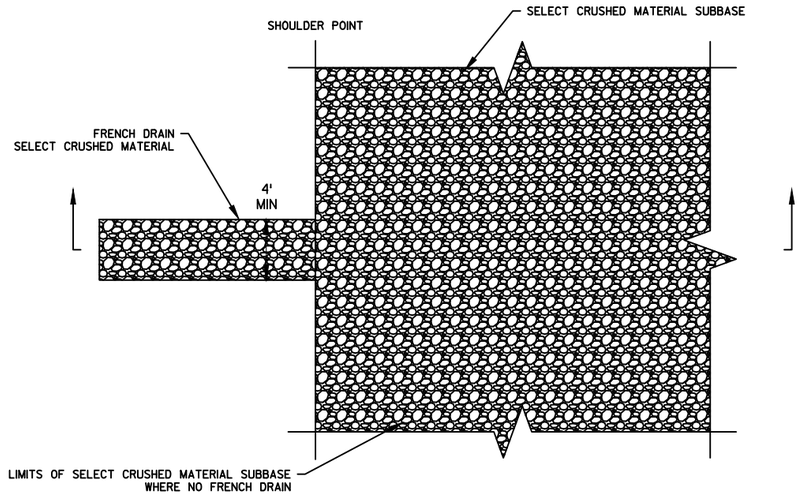
SECTION VIEW





SECTION A-A

RIPRAP MEDIUM DETAIL AT APRON ENDWALLS



PLAN VIEW

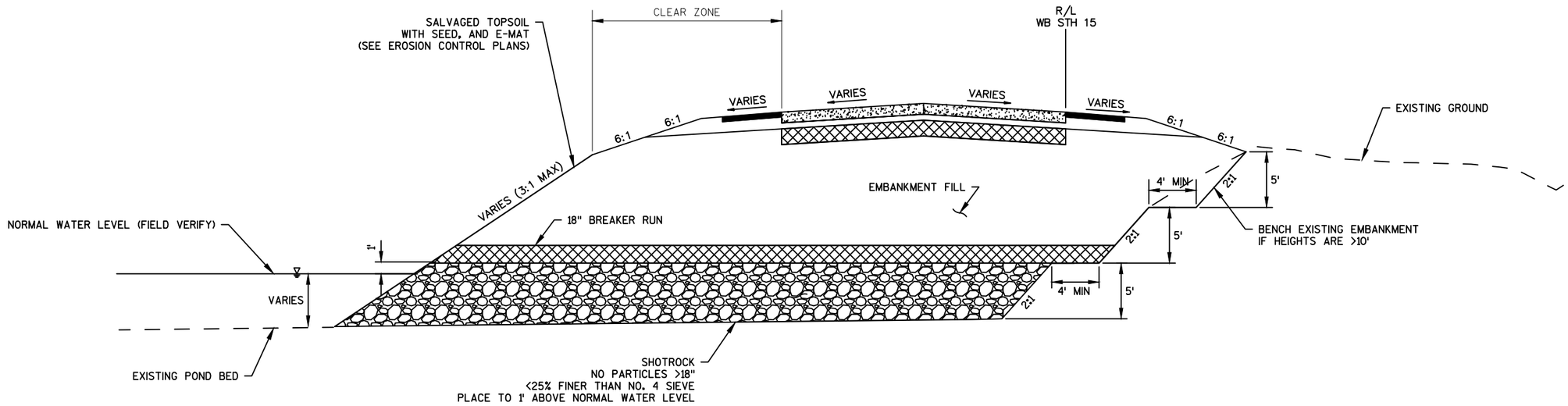
FRENCH DRAIN DETAIL

DRAINS ARE TO BE CONSTRUCTED AT LEAST EVERY 250'
AND AT EACH LOW POINT OF A SAG VERTICAL CURVE IN THE PROFILE.

LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

EXCAVATION REQUIRED TO CONSTRUCT FRENCH DRAINS IS INCIDENTAL TO THE ITEM SELECT CRUSHED MATERIAL.

2



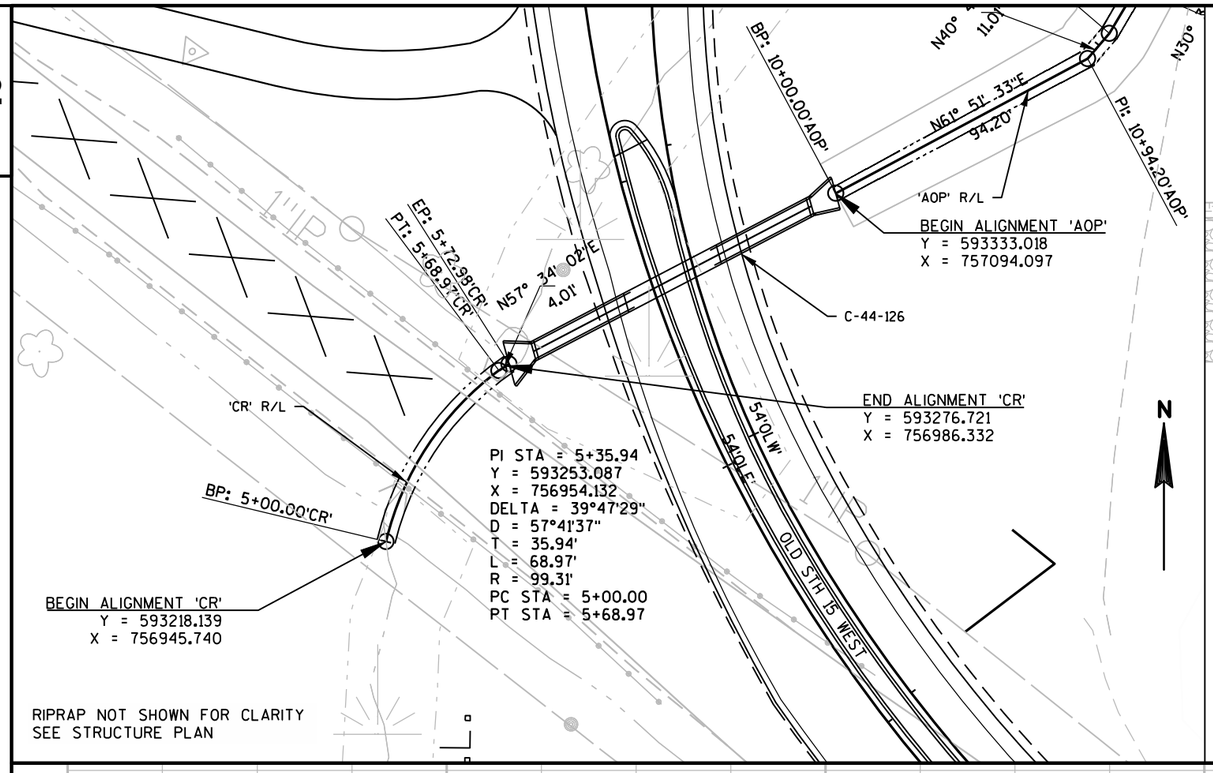
NOTE:

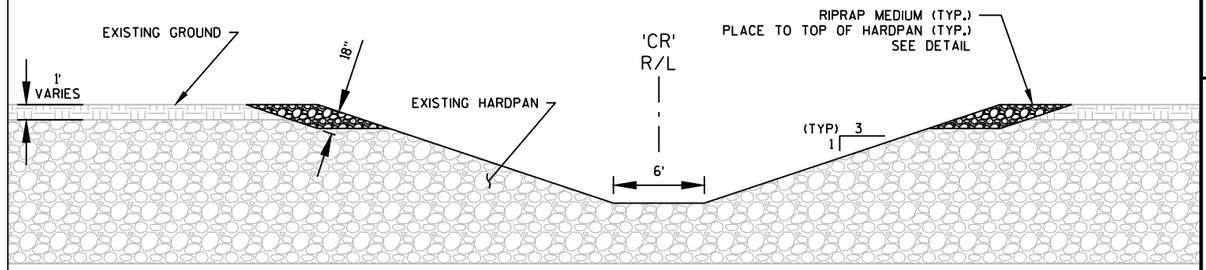
SEE CROSS SECTIONS FOR APPROXIMATE POND DEPTHS AT EACH STATION

POND FILL DETAIL

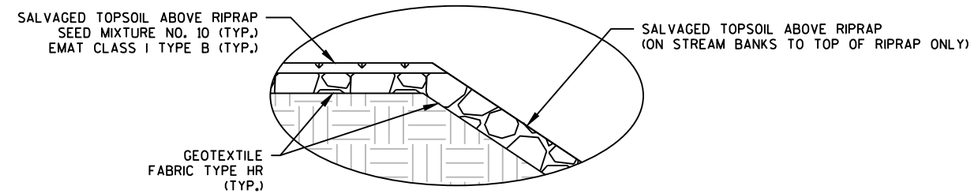
PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CONSTRUCTION DETAILS: POND FILL DETAIL	SHEET 14	E

FILE NAME : C:\USERS\MUTHCM\DOCUMENTS\11467571-UPDATED\11467571\SHEETSPLAN\11467576\11467576_021001_CD.DWG
1146-75-76 PLAN - 021006_CD
PLOT DATE : 7/20/2022 2:22 PM PLOT BY : MUTH, CAMERON PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

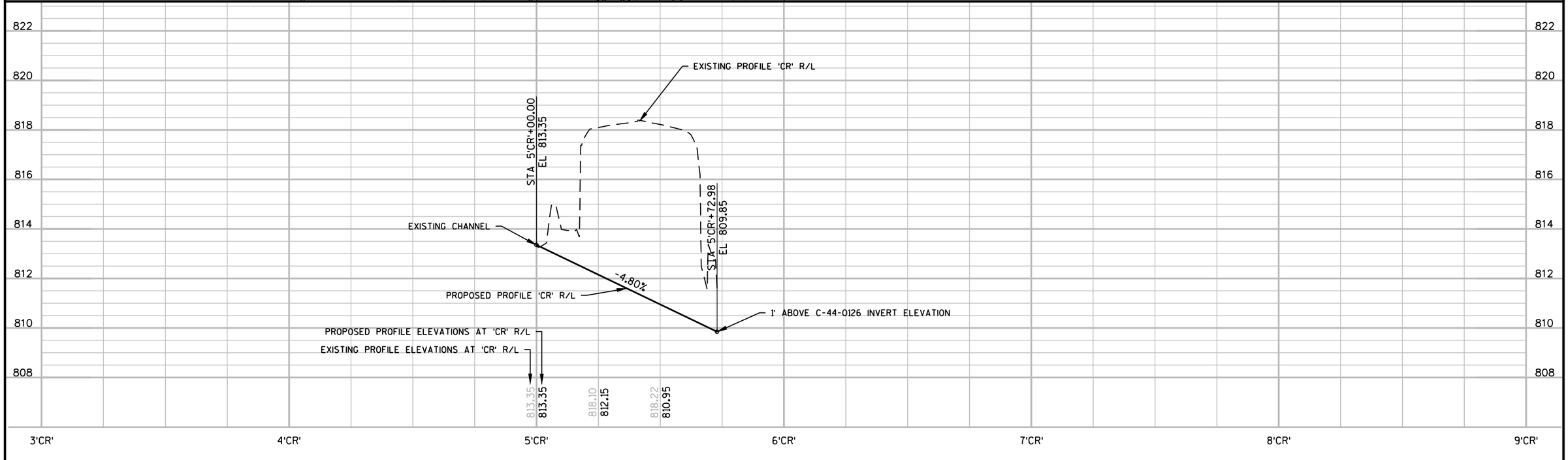




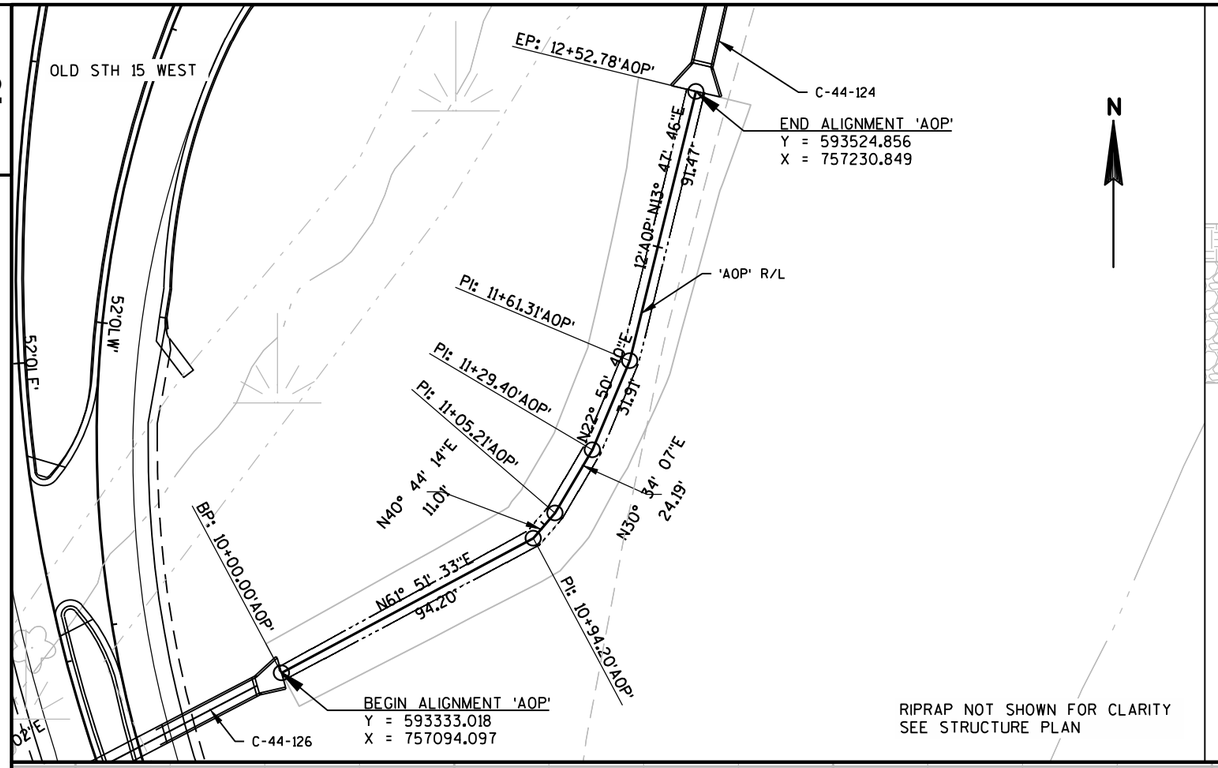
STREAM REALIGNMENT EXISTING STREAM TO C-44-0126
TYPICAL SECTION

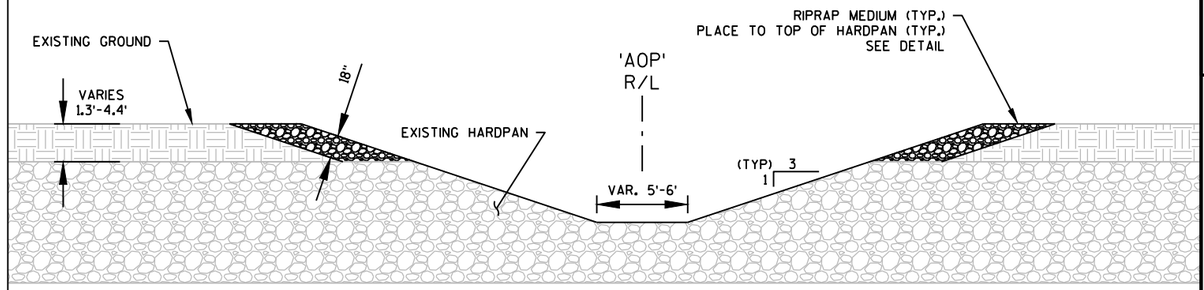


SALVAGED TOPSOIL ABOVE RIPRAP

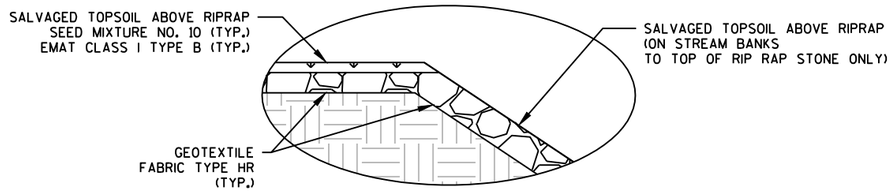


PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CONSTR. DETAIL - STREAM REALIGNMENT EXISTING TO C-44-0126	SHEET 15	E

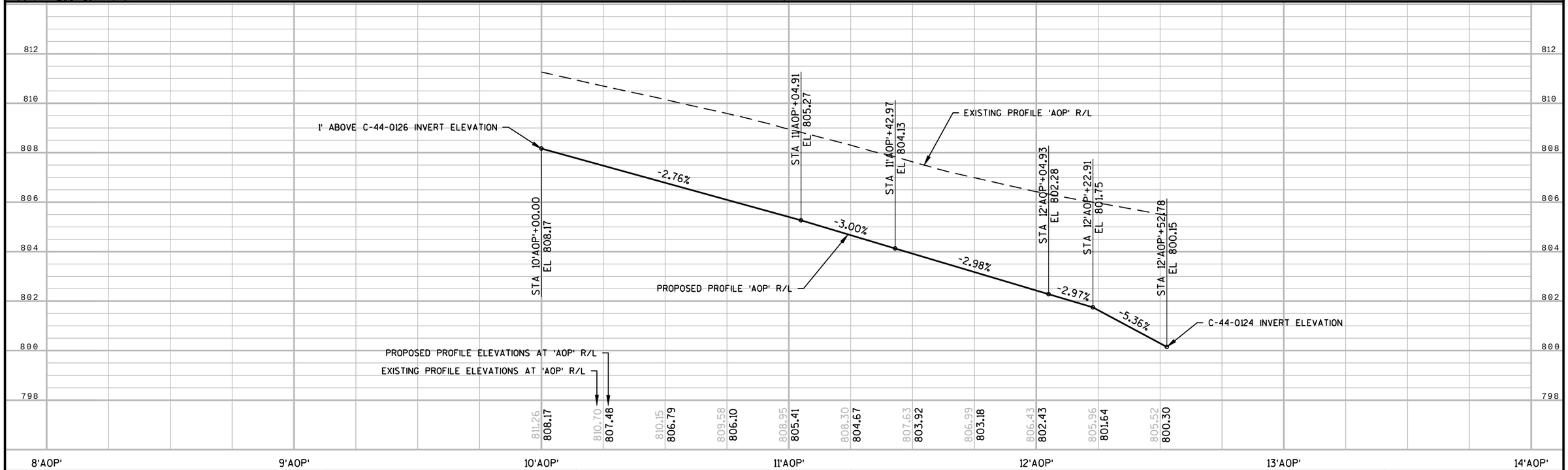




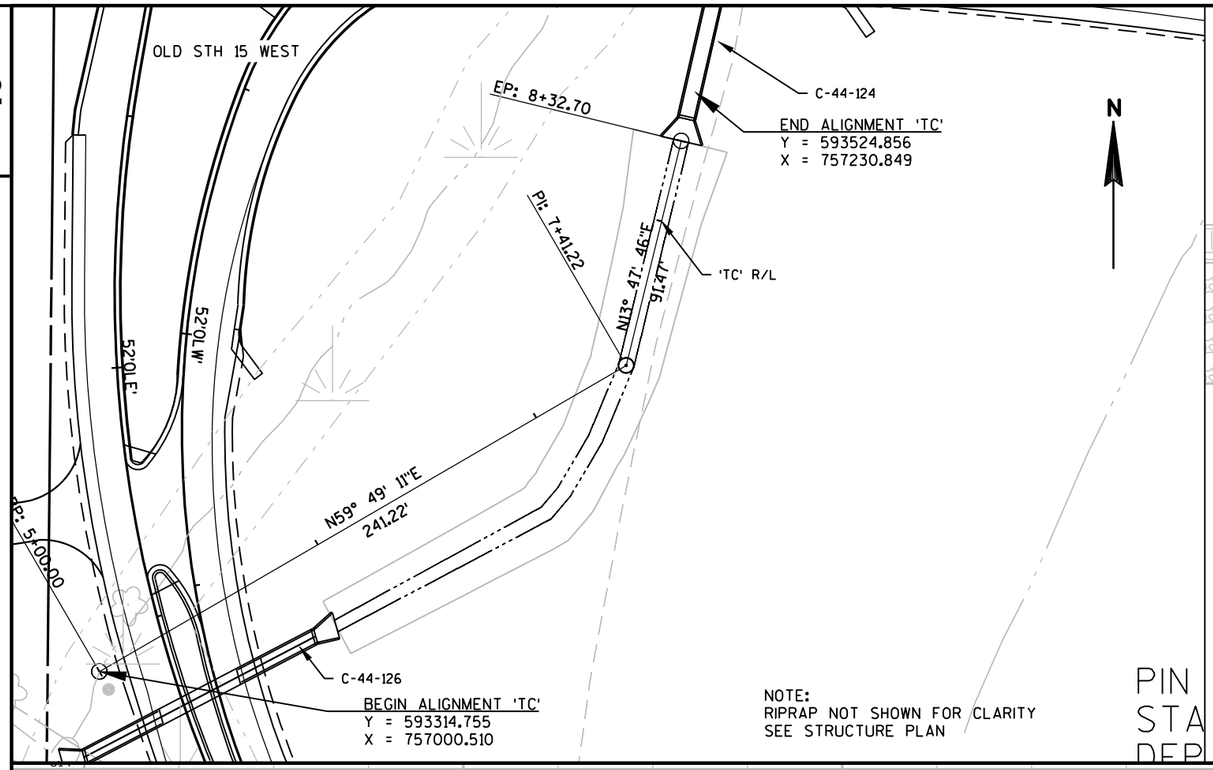
STREAM REALIGNMENT C-44-0126 TO C-44-0124
TYPICAL SECTION



SALVAGED TOPSOIL ABOVE RIPRAP

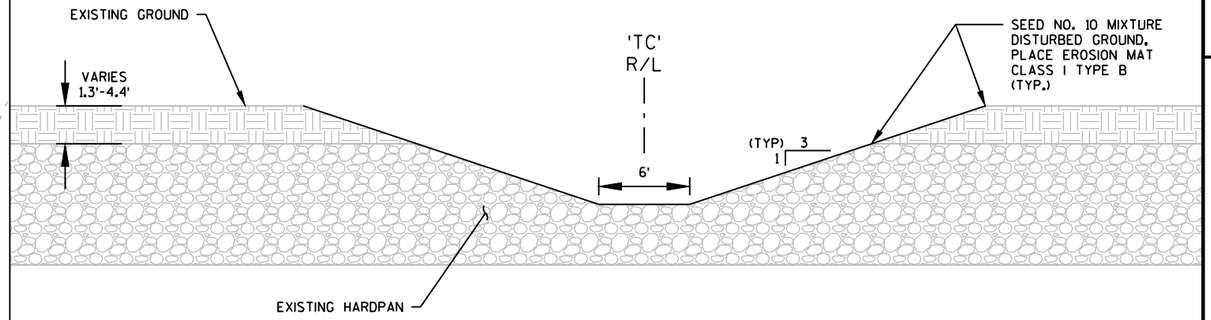


PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CONSTR. DETAIL - STREAM REALIGNMENT C-44-0126 TO C-44-0124	SHEET 16	E

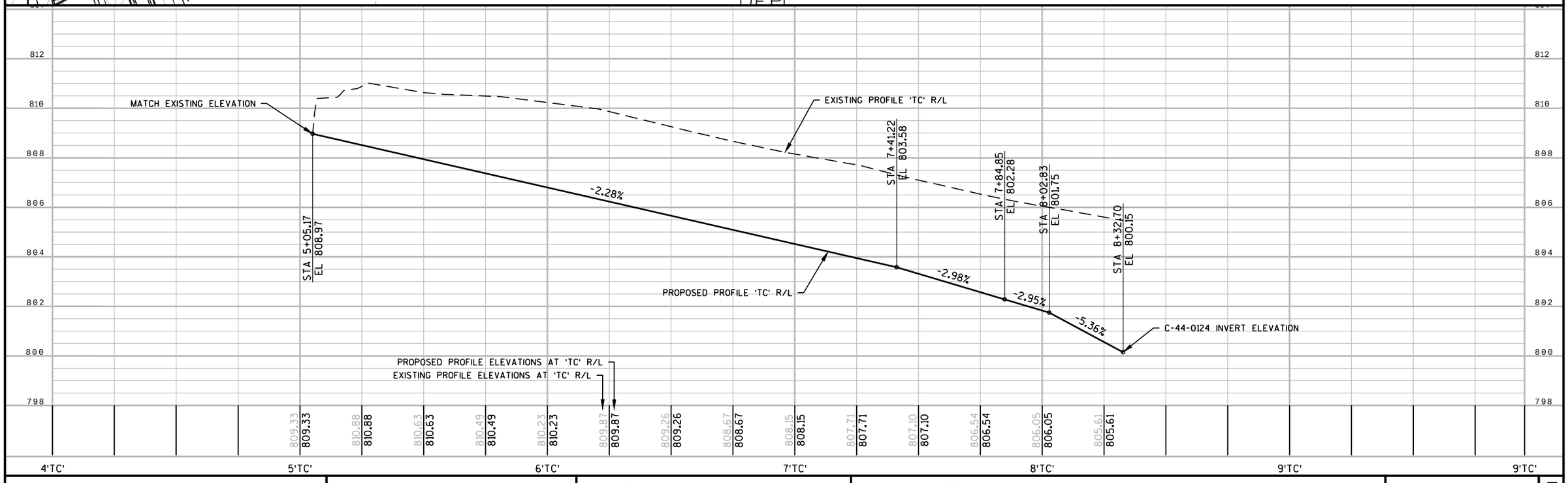


NOTE:
RIPRAP NOT SHOWN FOR CLARITY
SEE STRUCTURE PLAN

PIN
STA
DEP

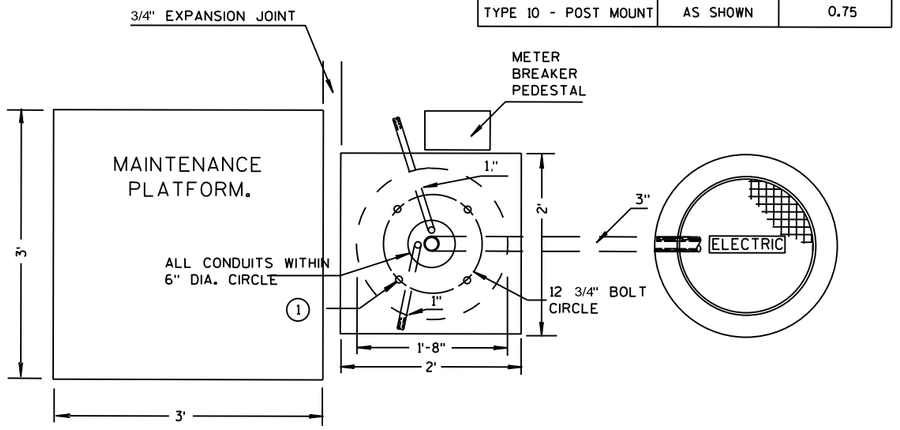


TEMPORARY CHANNEL
TYPICAL SECTION



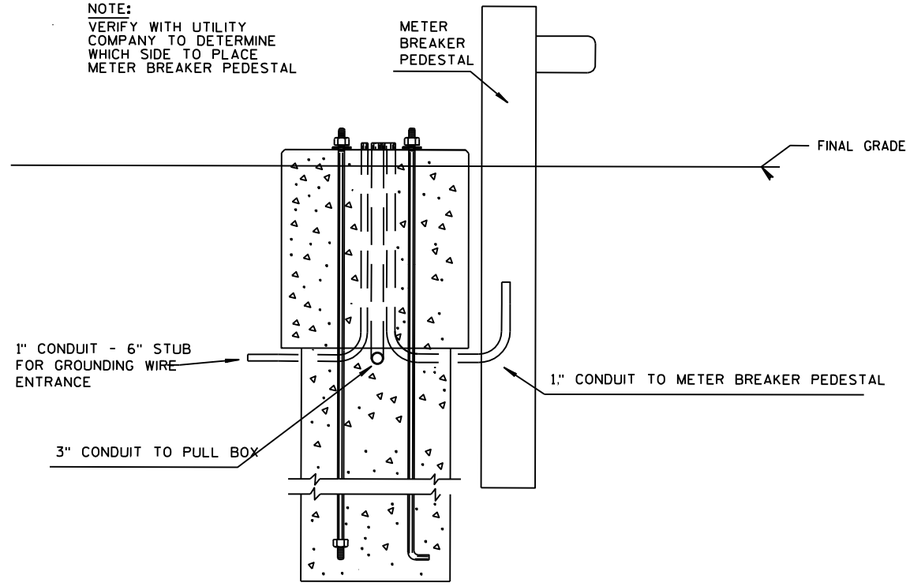
PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CONSTR. DETAIL - TEMPORARY CHANNEL	SHEET 17	E

CONTROL CABINET BASE TYPE	DIMENSIONS	C.Y. CONCRETE (APPROX.)
TYPE 10 - POST MOUNT	AS SHOWN	0.75

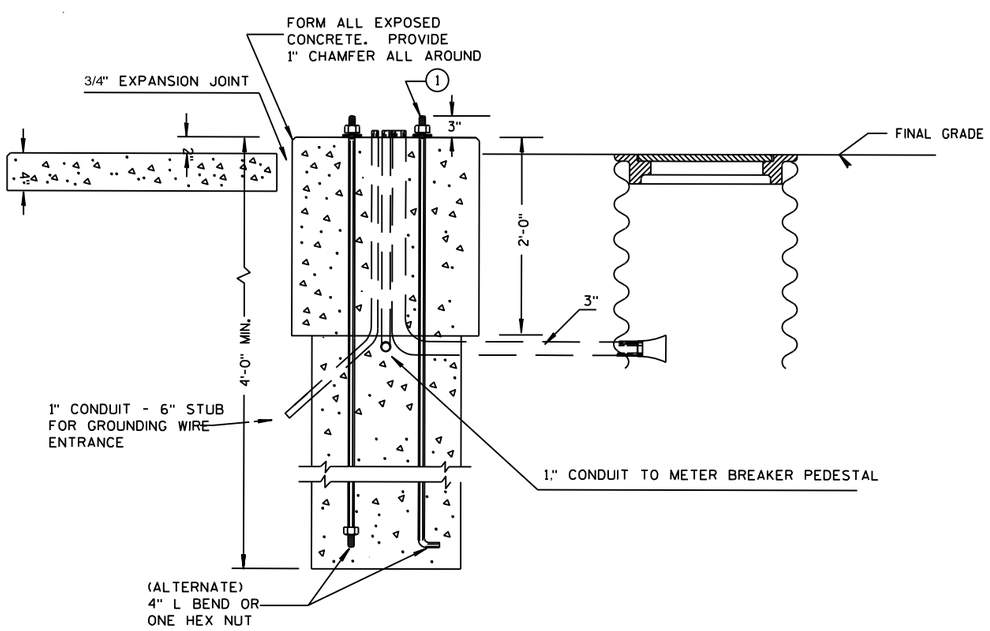


PLAN VIEW

NOTE:
VERIFY WITH UTILITY COMPANY TO DETERMINE WHICH SIDE TO PLACE METER BREAKER PEDESTAL



FRONT VIEW



PROFILE VIEW

GENERAL NOTES

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

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

CONTROL CABINET BASE TOP SURFACES SHALL BE TROWEL FINISHED AND LEVEL.

WHEN A TYPE 10 CONTROL CABINET BASE IS USED TO POST MOUNT A CONTROL CABINET, A 36" SQUARE 4" THICK CONCRETE MAINTENANCE PLATFORM SHALL BE REQUIRED ON THE DOOR SIDE OF THE CABINET. THE TOP 1 INCH SHALL BE ABOVE FINISHED GRADE AND BE BROOM FINISHED AND LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

ALL CONDUIT ENDS AT THE TOP OF THE CONCRETE BASE SHALL PLUGGED IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

WHEN ANCHOR RODS USING THE ALTERNATE L BEND ARE FURNISHED FOR THE TYPE 10 BASE, THE 4" L BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH.

THE "L" BEND SHALL NOT BE THREADED.

STRAIGHT ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD.

FOUR (4) ANCHOR RODS, 1" DIA. X 3'-6"
ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 AND 641.2.2 OF THE STANDARD SPECIFICATIONS AND IN ACCORDANCE WITH A-449, OR ASTM. A-687 (GRADE 105).

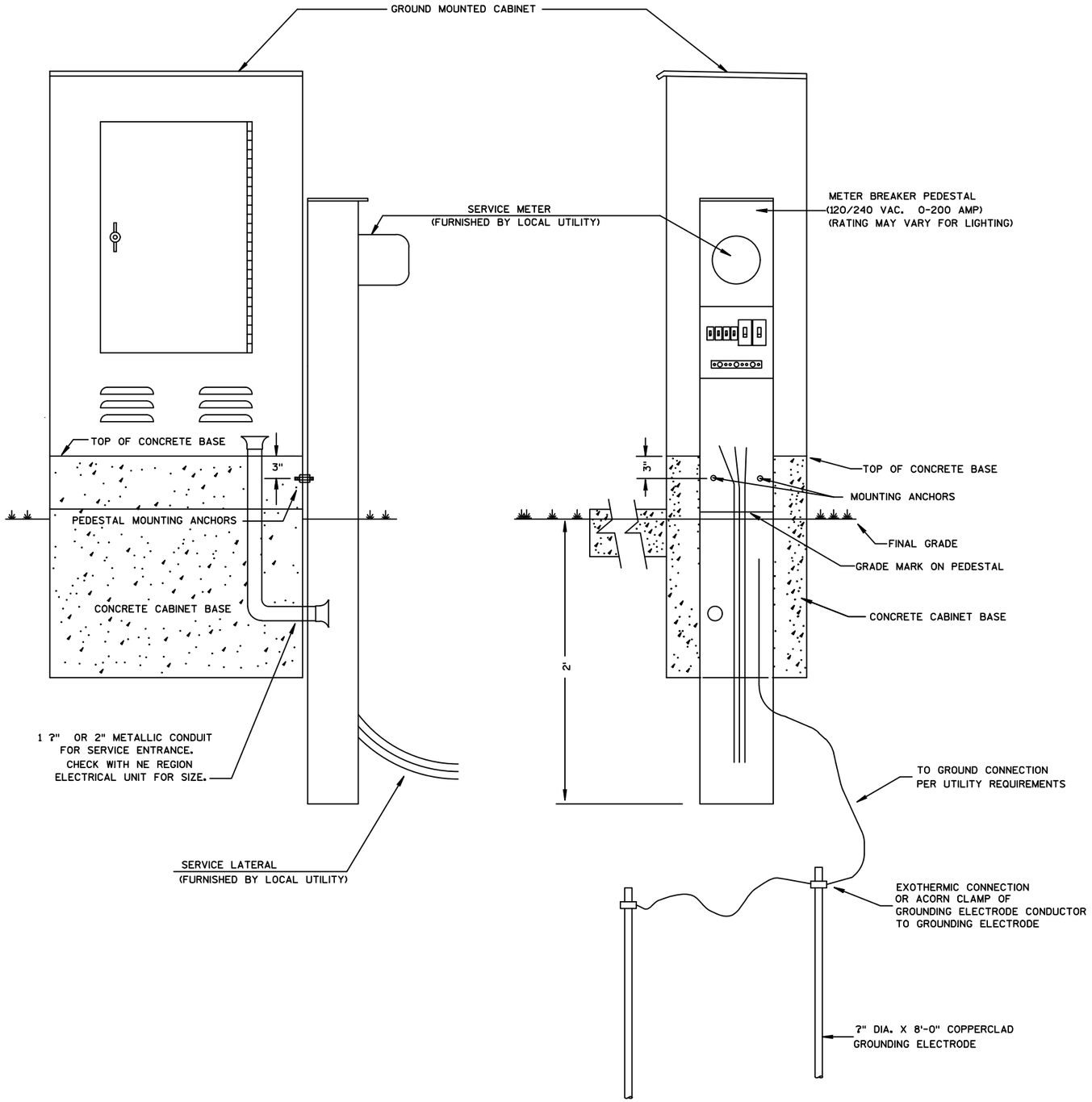
120/240 VOLT ELECTRIC SERVICE

DATE: 8/9/2018

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CONSTRUCTION DETAIL - LIGHTING CABINET TYPE 10 NER	SHEET 18	E

FILE NAME : U:\LIGHTING\LIGHTING PLANS\1146-75-00 (STH 15)\LIGHTING.DWG PLOT DATE : 6/27/2019 8:08 AM PLOT BY : TALCOTT, MATTHEW J PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



GENERAL NOTES

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

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE. CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

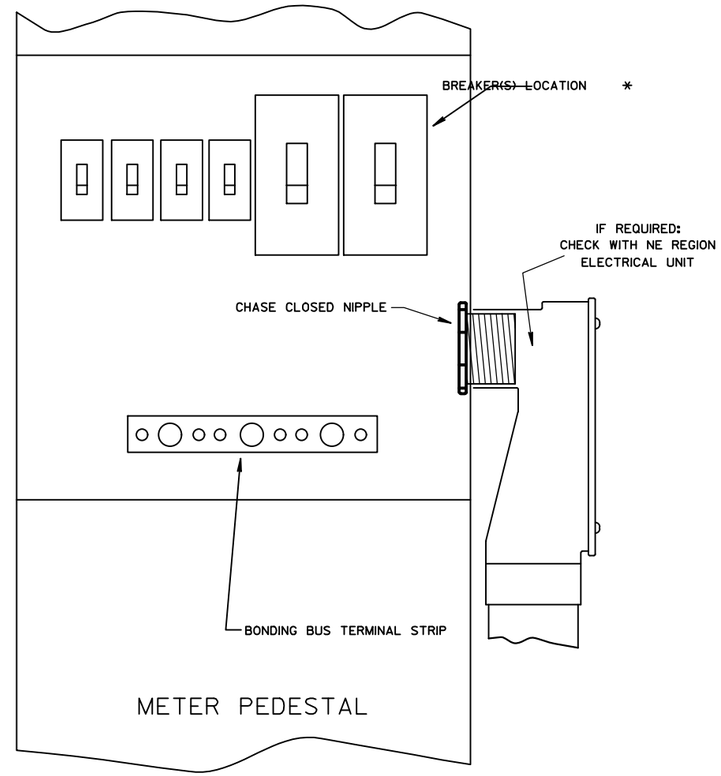
WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT OR SCHEDULE 80 PVC. NIPPLES AND/OR CONDULETS AS REQUIRED. CONDUIT LB SHALL BE OF METALLIC SERVICE ENTRANCE TYPE.

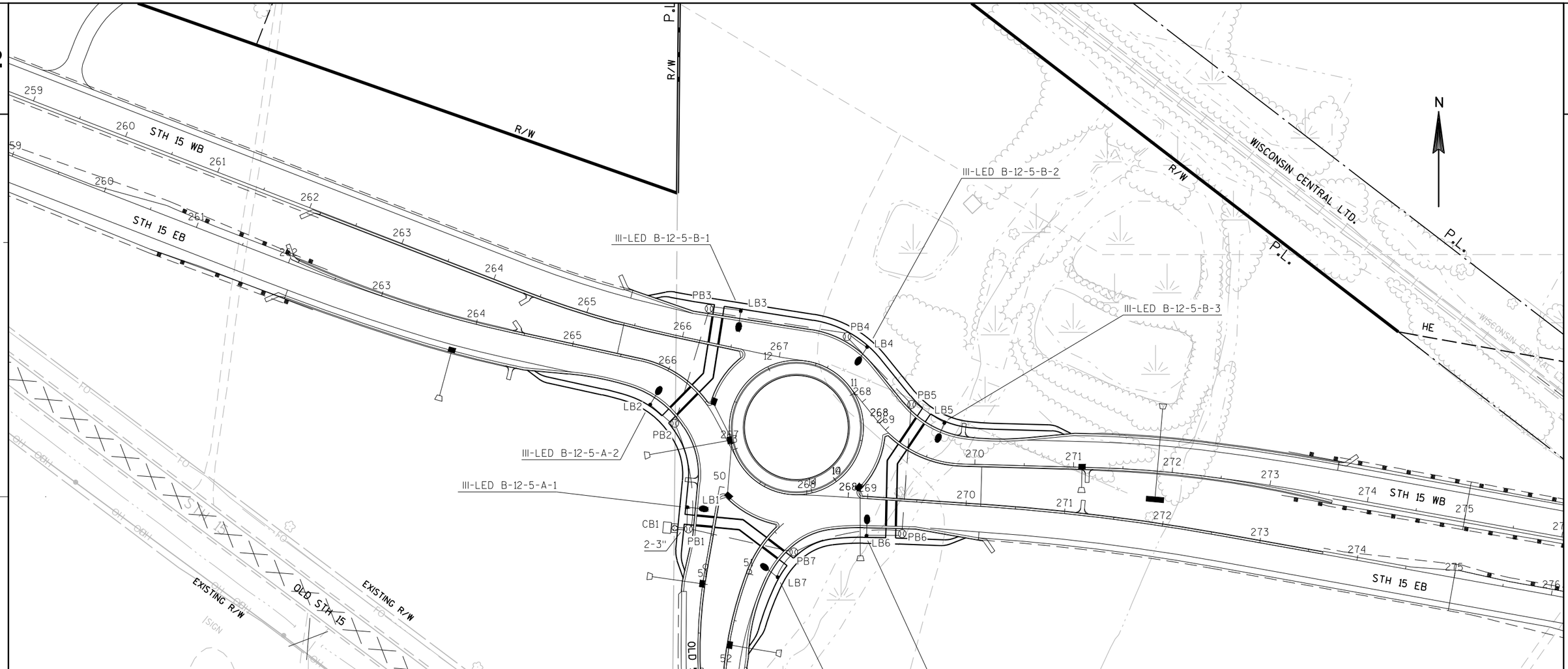
SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED. THE DISTANCE APART SHALL BE 6 FEET OR PER NEC.

* SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.



PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CONSTRUCTION DETAIL- NER METER PEDESTAL INSTALLATION	SHEET 19	E



LEGEND

- LIGHTING CONTROL CABINET WITH METER BREAKER PEDESTAL
- 2" CONDUIT, NON-METALLIC (unless otherwise noted)
- LIGHTING UNIT
- PULL BOX 24" X 42"
- UTILITY POLE
- ELECTRIC, UNDERGROUND — E —
- ELECTRIC, OVERHEAD — OH —

EXAMPLE (see individual label on each lighting unit)

III-LED A-12-5-A-4

- LIGHT UNIT NUMBER IN CIRCUIT
- CIRCUIT ID
- BASE TYPE
- MAST ARM LENGTH (in feet)
- LAMP WATTAGE
- DISTRIBUTION TYPE

240 VOLT SYSTEM

120/240 VOLT ELECTRIC SERVICE

NOTES:

WISCONSIN DOT NORTHEAST REGION ELECTRICAL UNIT SHALL APPROVE FINAL LOCATIONS FOR ALL CONCRETE BASES IN THE FIELD PRIOR TO CONSTRUCTION. CONTACT THEM 3 DAYS IN ADVANCE AT (920) 492-5710.

THE LOCATION OF EXISTING AND PROPOSED UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. IN ADDITION, THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.

CONDUCTOR COLOR SCHEME
Circuit "A" = Black
Circuit "B" = Red
Circuit "C" = Blue
Circuit "D" = Brown
Circuit "E" = Orange
Circuit "F" = Yellow

STH 15 & OLD STH 15 WEST
TOWN OF HORTONIA
OUTAGAMIE COUNTY

LIGHTING NO. 44-2018

DESIGNER: WISDOT NE REGION TRAFFIC UNIT

DATE: 6/27/2019 SHEET NO. 1 OF 1

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN LIGHTING PLAN - OLD STH 15 WEST ROUNDABOUT	SHEET 20 E

STH 15

2

N

LEGEND

abc / xx — PLANT SYMBOL / QUANTITY

PC = PRARIE CRABAPPLE

MJ = MANEY JUNIPER

RD = REDOSIER DOGWOOD

12 TR

14 TR

LOW MAINTENANCE SEED MIX

270'WB'

270'EB'

OLD STH 15 WEST

STH 15

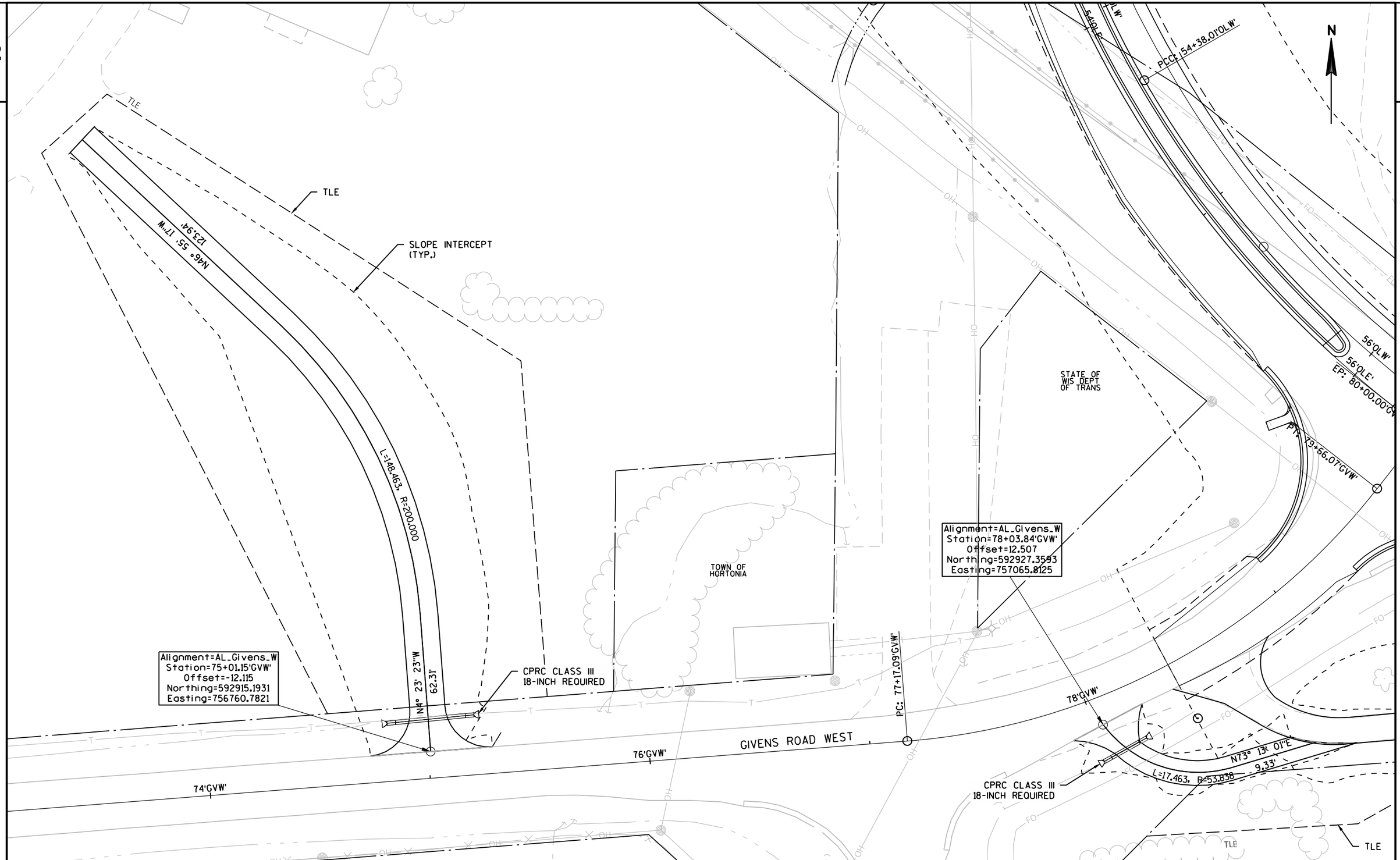
PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	LANDSCAPING DETAIL - ROUNDABOUT	SHEET PRI 21 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467576\11467576_023101_PL.DWG
LAYOUT NAME - 023101_PL

PLOT DATE : 2/24/2017 3:20 PM PLOT BY : SPIELMACHER, JOHN P PLOT NAME : PLOT SCALE : 1 IN:20 FT_XREF

WISDOT/CADDS SHEET 42

2



PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CONSTRUCTION DETAIL - TEMPORARY DRIVEWAYS	SHEET 22	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467576\11467576_021804_CD.DWG
LAYOUT NAME - 021804_CD
PLOT DATE : 11/13/2019 6:25 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

CONCRETE CURB & GUTTER
30-INCH TYPE D

'OLW'+85.61
19' LT

'OLW'+96.13
21' LT

+16.00 'OLW'
TAPER MATCH POINT

'OLW'+32.78
11' LT

+35.48 'OLW' 4' RT
60' R

+30.65 'OLE' 0' LT -
+36.05 'OLE' 13.30' LT

CONCRETE MEDIAN
SLOPED NOSE TYPE 1

+91.19 'OLE' 0' LT -
+88.53 'OLE' 11.89' LT

CONCRETE MEDIAN
SLOPED NOSE TYPE 1

+05.85 'OLW' 2' RT
60' R

+20.96 'OLW'
TAPER MATCH POINT

816.39
816.35
816.99
817.03
817.11
817.07
817.26
817.47
817.70
817.75
817.92
818.08
818.25
818.41
818.58
818.75
818.91
819.08
819.24
819.41
819.69
819.83
819.94
820.04
820.59
820.71
820.84
820.94
820.98

52'OLW'
53'OLW'
54'OLW'
55'OLW'
56'OLW'
52'OLE'
53'OLE'
54'OLE'
55'OLE'
56'OLE'

12'
5'

3' SHOULDER (2' PAVED)

STA 51'OLE'+97.91, 34' RT

'OLE'+27.13
12' RT

STA 53'OLE'+09.53, 44' RT

CONCRETE CURB & GUTTER
4-INCH SLOPED 36-INCH TYPE D

'OLE'+73.61
24' RT

R/L OLD STH 15 WEST - WB

R/L OLD STH 15 WEST - EB

CONCRETE MEDIAN
SLOPED NOSE TYPE 1

+80.29 'OLE' 0' LT -
+81.60 'OLE' 10.99' LT

+79.67 'OLW' 1' RT
75' R

+71.28 'OLW'
TAPER MATCH POINT

'OLE'+59.49
24' RT

'OLE'+69.03
24' RT

STA 55'OLE'+69.98, 63' RT

'GVW'+79.89
49' LT

'GVW'+53.41
31' LT

R60'

STA 79'GVW'+03.73, 75' LT

CONCRETE CURB & GUTTER
6-INCH SLOPED 36-INCH TYPE D

'GVW'+25.00
18' LT

'GVW'+03.62
15' LT

STA 56'OLE'+50 =
STA 80'GVW'+00
TYPE "B2" MODIFIED INTERSECTION

OLD STH 15 WEST

58'OLE'

57'OLE'

'OLE'+02.53
12' RT

'OLE'+69.20
17' RT

'OLE'+02.50
24' RT

ASPHALTIC FLUME

90°

820.14
820.62
820.87
821.13

R50'

'GVW'+63.50
29' RT

'GVW'+50.00
19' RT

'GVW'+33.07
15' RT

'GVW'+23.54
3.5' RT

STA 79'GVW'+33.07, 65' RT

79'GVW'

3'

DIMENSIONS AND RADII TO CURB FLANGE LINE
UNLESS OTHERWISE NOTED

END CONSTRUCTION
STA 78'GVW'+41.26
MATCH EXISTING
SAW CUT REQUIRED

78'GVW'

GIVENS ROAD WEST

SEE DRIVEWAY DETAILS

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	INTERSECTION DETAIL - GIVENS ROAD WEST	SHEET 23	E

FILE NAME : C:\USERS\MUTHCM\DOCUMENTS\11467571-UPDATED\11467571\SHEETSPLAN\11467576\11467576_021201_PG.DWG
LAYOUT NAME - 021101_ID (GVW)
PLOT DATE : 7/26/2022 10:03 AM
PLOT BY : MUTH, CAMERON
PLOT NAME :
PLOT SCALE : 1" = 40'_XREF

2

GIVENS ROAD EAST

OLD STH 15 WEST

END CONSTRUCTION
STA 91'GVE'+87.87
MATCH EXISTING
SAW CUT REQUIRED

DIMENSIONS AND RADII TO CURB FLANGE LINE
UNLESS OTHERWISE NOTED

ASPHALTIC FLUME

STA 90'GVE'+72.26, 65' LT

CONCRETE CURB & GUTTER
6-INCH SLOPED 36-INCH TYPE D

'GVE'+81.78
15' LT

'GVE'+72.24
15' LT

R50', 'GVE'+50.00
22' LT

'OLE'+60.75
24' LT

'OLE'+97.11
29' LT

'OLE'+40.75
35' LT

817.61

818.05

818.74

STA 91'GVE'+15.20, 75' RT

'GVE'+15.18
15' RT

'GVE'+00.00
16' RT

'GVE'+75.00
25' RT

R60', 'GVE'+50.06
45' RT

CONCRETE CURB & GUTTER
6-INCH SLOPED 36-INCH TYPE D

815.83

816.14

816.82

817.72

'OLE'+86.28
35' LT

'OLE'+96.28
31' LT

'OLE'+31.28
29' LT

'OLE'+06.28
24' LT

818.30

5'
12'
12'
12'
5'
20'
20'
12'

90°

59'OLE'
60'OLE'
61'OLE'
62'OLE'
63'OLE'
64'OLE'

'OLE'+02.53
12' RT

STA 61'OLE+01.47 =
STA 90'GVE'+00.00
TYPE "D" MODIFIED INTERSECTION

TI SIGN

W

W

N

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	INTERSECTION DETAIL - GIVENS ROAD EAST	SHEET 24	E

2

LEGEND

36"-R	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R
36"-A	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A
30"-D	CONCRETE CURB & GUTTER 30-INCH TYPE D
30"-A	CONCRETE CURB & GUTTER 30-INCH TYPE A
18"-A	CONCRETE CURB & GUTTER 18-INCH TYPE A (REVERSE SLOPE CURB)
MSNI	CONCRETE MEDIAN SLOPED NOSE TYPE I
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BAD	BASE AGGREGATE DENSE DRIVEWAYS AND FIELD ENTRANCES

N

ASPH

6'

810.82 810.93 3.6% 811.07 3.4% 811.48 2.1% 811.83 2.1% 812.05 2.1% 812.27 2.1% 812.49 2.1% 812.71 2.1% 812.93 2.1% 813.12 2.1% 813.27 14' 813.41 813.55 813.70 813.84 813.99 814.13 814.28 814.42 814.56 814.71 814.86 2.0% 815.00 815.14 815.28 815.40 815.45 815.50

811.32 811.45 3.6% 811.59 3.4% 811.86 1.8% 812.14 1.2% 812.35 0.6% 812.57 0.0% 812.79 0.6% 813.01 1.2% 813.23 1.9% 813.42 2.0% 813.56 12' 813.71 813.85 813.99 814.14 814.28 814.42 814.57 814.71 814.85 815.00 815.14 2.0% 815.28 815.43 815.57 815.68 815.73 815.79

256'WB' 257'WB' 258'WB' 259'WB' 260'WB' 261'WB' 262'WB' 263'WB'

811.75 811.88 812.02 812.17 812.32 812.46 812.61 812.75 812.89 813.04 813.18 813.32 813.47 813.61 813.75 813.90 814.04 814.18 814.33 814.47 814.61 814.76 814.90 815.04 815.19

3'

R/L STH 15 WB

815.33 815.47 815.62 815.76

36"-A

'EB'+42.39 6' LT

STH 15

R/L STH 15 EB

'EB'+86.66 2' LT

'EB'+64.68 15' LT

'EB'+64.49 10' LT

'EB'+17.49 8' LT

'EB'+09.17 4' LT

'EB'+09.60 10' LT

'WB'+11.92 1' RT

'EB'+39.54 7' LT

814.79

815.09

36"-A

257'EB' 258'EB' 259'EB' 260'EB' 261'EB' 262'EB' 263'EB'

811.58 3.6% 811.72 3.6% 811.86 3.6% 811.99 3.6% 812.13 3.6% 812.27 3.6% 812.41 3.6% 812.54 3.6% 812.68 3.6% 812.82 3.6% 812.95 3.6% 813.09 12' 813.23 813.36 813.50 813.64 813.78 813.91 814.05 814.19 814.32 814.46 814.60 814.74 3.6% 814.87 3.6% 815.01 815.15 3.3% 815.28 2.6% 815.42 1.9% 815.5

812.01 3.6% 812.15 3.6% 812.29 3.6% 812.42 3.6% 812.56 3.6% 812.70 3.6% 812.84 3.6% 812.97 3.6% 813.11 3.6% 813.25 3.6% 813.39 3.6% 813.52 14' 813.66 813.80 813.93 814.07 814.21 814.35 814.48 814.62 814.76 814.89 815.03 815.17 3.6% 815.30 3.6% 815.44 815.58 3.3% 815.63 2.6% 815.69 1.9% 815.7

812.52 812.65 812.79 812.93 813.07 813.20 813.34 813.48 813.61 813.75 813.89 814.02 9' 814.16 814.30 814.44 814.57 814.71 814.85 814.99 815.12 815.26 815.40 815.53 815.67 815.81 815.94 816.08 816.04 815.99 815.9

MATCHLINE 263'EB'+28

'EB'+64.86 37' RT

'EB'+17.88 35' RT

816.07

'EB'+08.78 35' RT

816.15

'EB'+39.32 36' RT

816.30

816.22

36"-A

816.13

816.03

BEGIN CONSTRUCTION
STA 256'EB'+00

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES	SHEET 25	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_02120PLPG.DWG PLOT DATE : 4/1/2022 3:07 PM PLOT BY : WENDT, SCOTT/MKE PLOT NAME : PLOT SCALE : 1 IN:50 FT
LAYOUT NAME - 021201_PG

WISDOT/CADDS SHEET 42

2

LEGEND

36"-R	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R
36"-A	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A
30"-D	CONCRETE CURB & GUTTER 30-INCH TYPE D
30"-A	CONCRETE CURB & GUTTER 30-INCH TYPE A
18"-A	CONCRETE CURB & GUTTER 18-INCH TYPE A (REVERSE SLOPE CURB)
MSN1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BAD	BASE AGGREGATE DENSE DRIVEWAYS AND FIELD ENTRANCES

N

STH 15

MATCHLINE 263'EB'+28

STA 269'WB'+99.74, 125' LT

STA 270'WB'+17.90, -324' LT

R/L STH 15 WB

R/L STH 15 EB

R/L STH 15 WEST RAB

R/L OLD STH 15 WEST - EB

R/L OLD STH 15 WEST - WB

OLD STH 15 WEST

817.72LP
STA 271'WB'+14.20

817.20LP
STA 271'EB'+17.58

817.15LP
STA 12'TR'+89.48

818.84HP
STA 10'TR'+75.44

STA 10'TR'+00.00, 66' LT

BP STA 10'TR'+00
EP STA 14'TR'+27.25

STA 51'OLE'+80.96, 158'RT

STA 265'EB'+57.70, 125' RT

STA 12'TR'+94.25, 121' RT

STA 12'TR'+94.32, 120' RT

END CONCRETE PAVEMENT
STA 50'OLE'+41.49

END CONCRETE PAVEMENT
STA 50'OLW'+69.81

STA 269'EB'+26.85, 91' RT

STA 53'OLW'+39.96, 129' LT

STA 50'OLW'+72.55, 95' LT

STA 51'OLW'+08.43, 117' LT

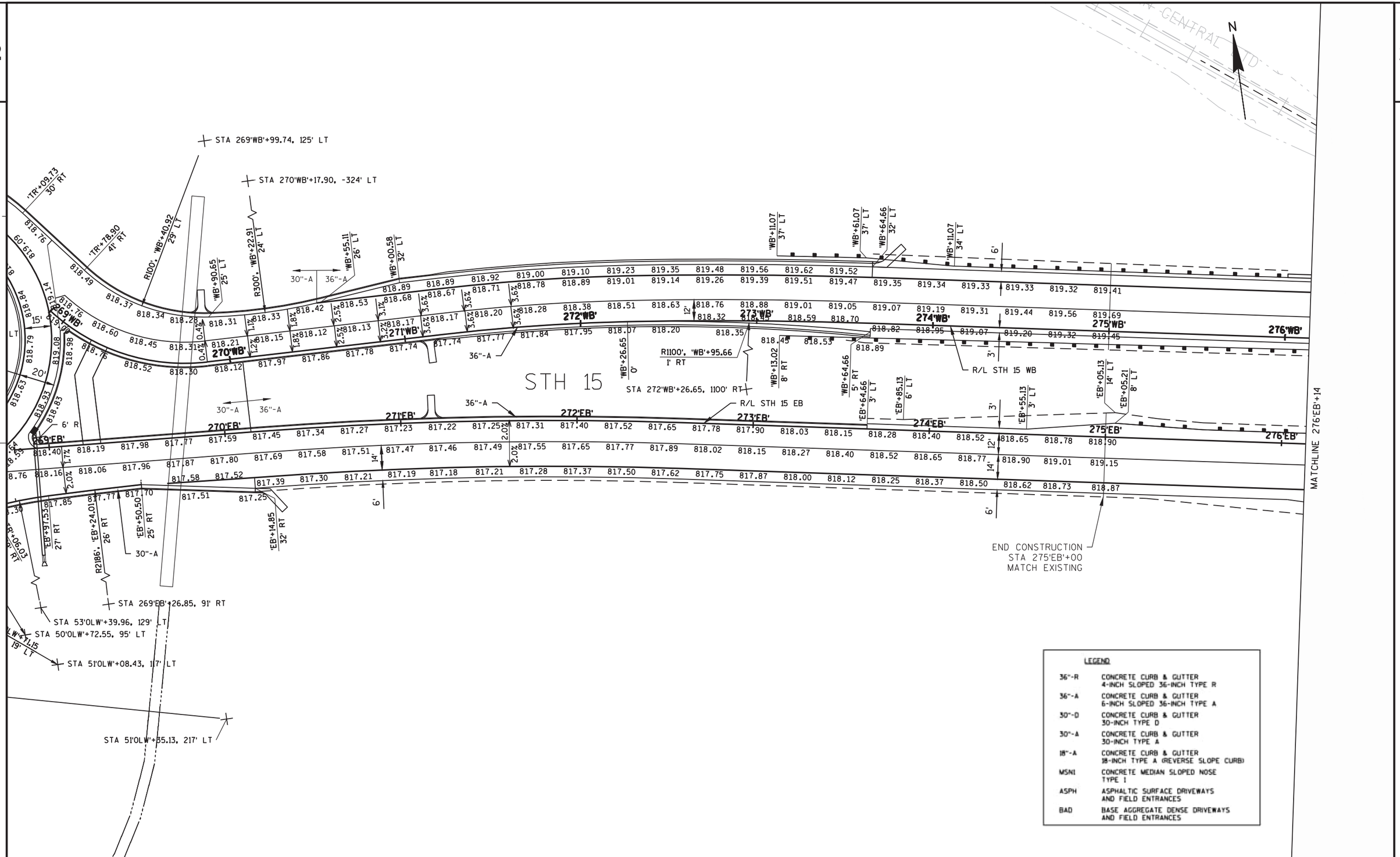
STA 51'OLW'+35.13, 217' LT

SEE GIVENS RD WEST INTERSECTION DETAILS SHEET
FOR CONTINUATION OF 'OLE'/'OLW' CURB GRADES

CROSSWALK REFERENCE POINT		
	STATION	OFFSET
1	266'EB'+17.18	44.61 LT
2	266'EB'+28.97	18.79 LT
3	266'EB'+28.25	2.00 LT
4	266'EB'+23.54	48.99 LT
5	266'EB'+37.43	22.00 LT
6	266'EB'+38.16	2.00 LT
7	269'EB'+36.18	52.24 LT
8	269'EB'+27.65	37.41 LT
9	269'EB'+29.25	2.00 LT
10	269'EB'+27.51	57.10 LT
11	269'EB'+17.53	39.87 LT
12	269'EB'+19.22	2.00 LT
13	50'OLE'+41.33	2.50 LT
14	50'OLE'+39.31	27.17 LT
15	50'OLE'+51.70	51.44 LT
16	50'OLE'+31.29	2.50 LT
17	50'OLE'+29.17	28.61 LT
18	50'OLE'+43.06	51.44 LT

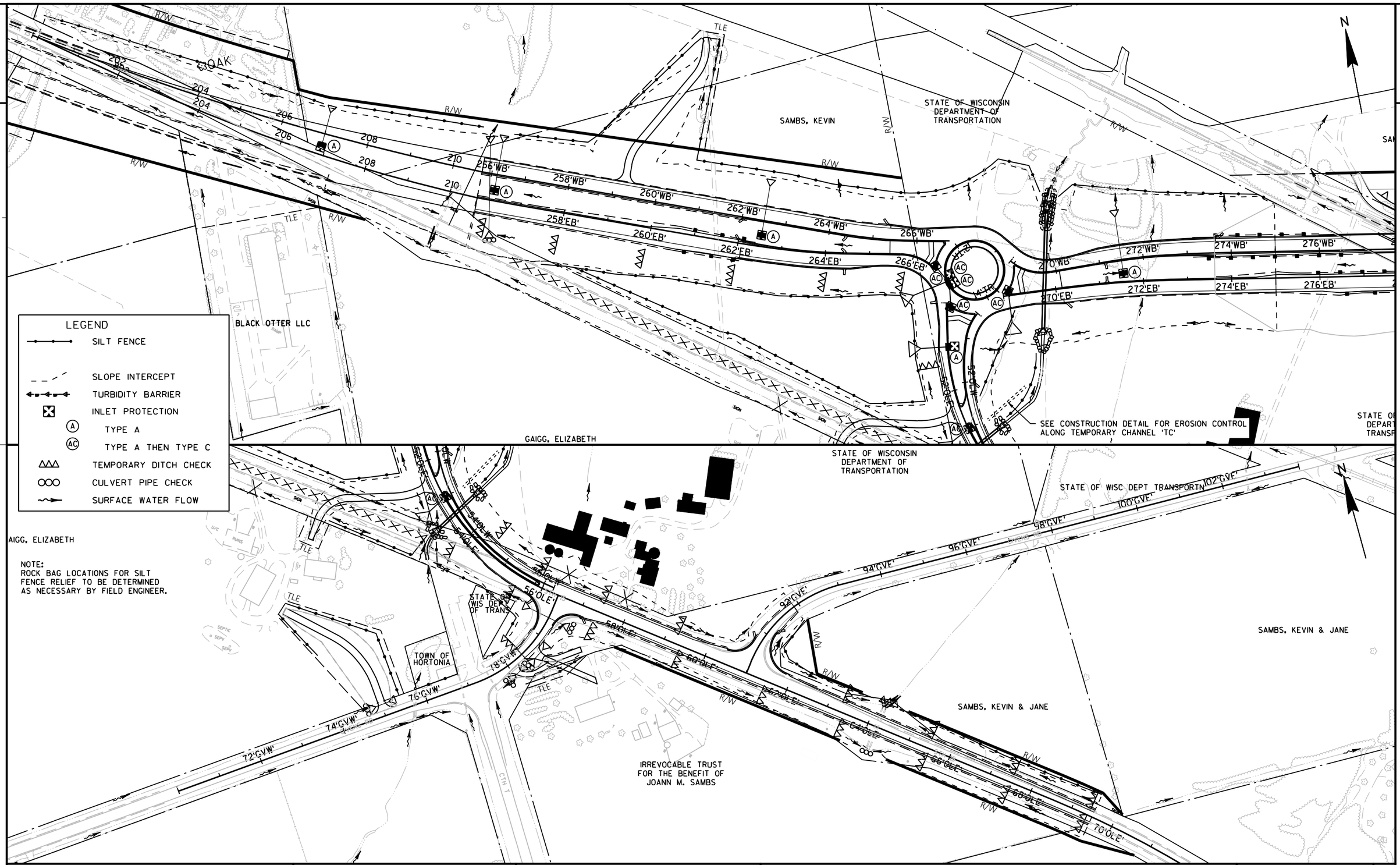
PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES	SHEET 26	E

2



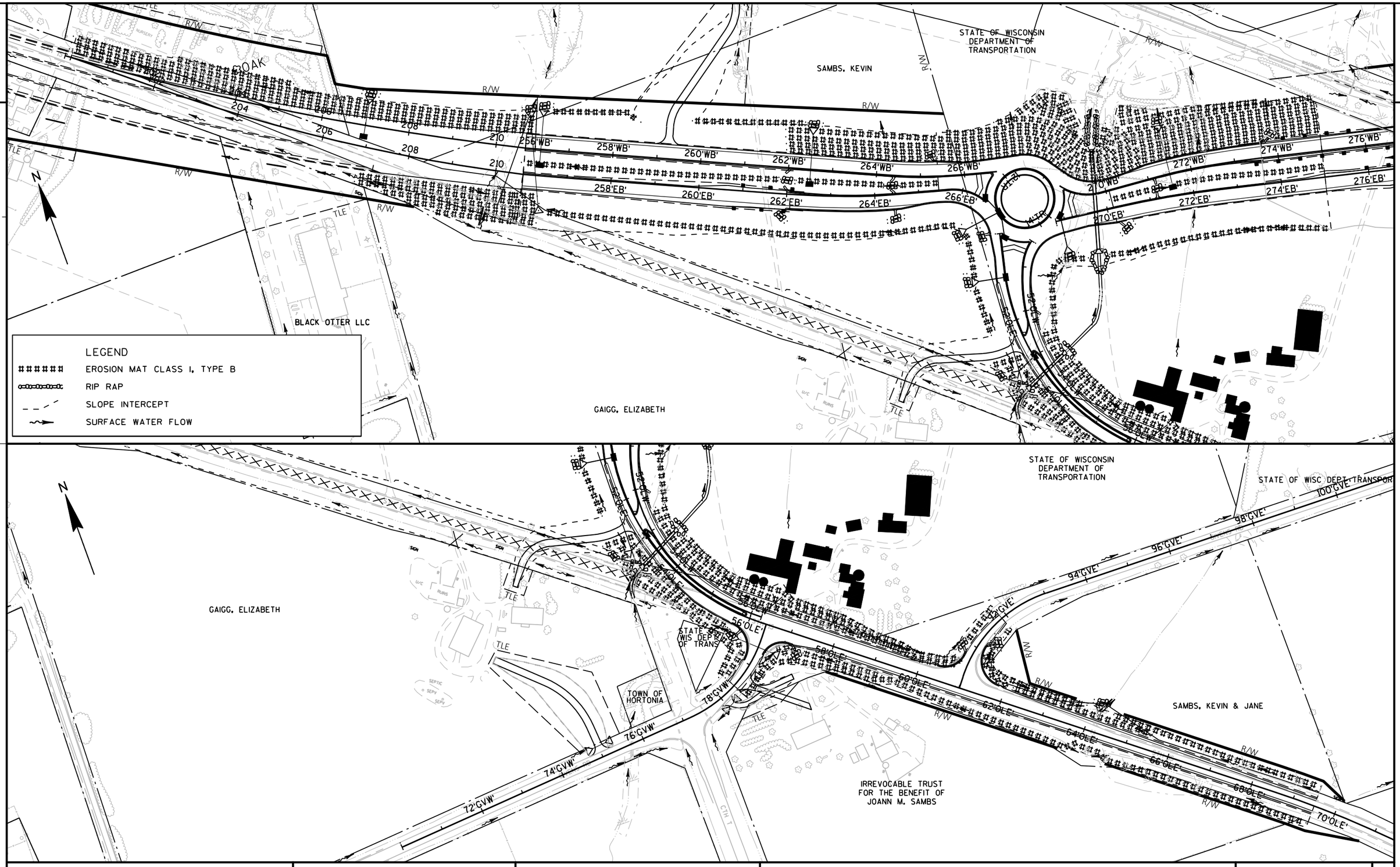
LEGEND	
36"-R	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R
36"-A	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A
30"-D	CONCRETE CURB & GUTTER 30-INCH TYPE D
30"-A	CONCRETE CURB & GUTTER 30-INCH TYPE A
18"-A	CONCRETE CURB & GUTTER 18-INCH TYPE A (REVERSE SLOPE CURB)
MSNI	CONCRETE MEDIAN SLOPED NOSE TYPE I
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BAD	BASE AGGREGATE DENSE DRIVEWAYS AND FIELD ENTRANCES

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES	SHEET 27	E



PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	TEMPORARY EROSION CONTROL	SHEET 28	E

2



PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	PERMANENT EROSION CONTROL	SHEET 29	E

2

266'EB'

265'EB'

STA 266'EB'+96, 4.8' LT
INLETS 4-T
20

STA 267'EB'+06, 2.5' LT
INLETS 4-T
20.2

STA 266'EB'+53, 6.7' LT
INLETS 4-H
20.3

STA 266'EB'+71, 75.0' RT
APRON ENDWALLS FOR CPRC 15-INCH
20.1

STA 267'EB'+37, 31.5' RT
INLETS 4-H
20.4

STA 51'OLE'+00, 1.5' LT
INLETS 4-H
21

STA 51'OLE'+00, 60.2' RT
APRON ENDWALLS FOR CPRC 15-INCH
21.1

51'OLW'

51'OLE'

15" SS

N

STA 268'EB'+92, 10.0' LT
INLETS 4-H
23

270'EB'

269'EB'

15" SS

STA 268'EB'+92, 60.8' RT
APRON ENDWALLS FOR CPRC 15-INCH
23.1

52'OLW'

52'OLE'

53'OLW'

53'OLE'

STA 52'OLE'+92, 2.0' LT
INLETS 4-HM
22.

STA 53'OLE'+03, 45.1' RT
APRON ENDWALLS FOR CPRC 15-INCH
22.1

5'x5' RCB

FO

826
824
822
820
818
816
814
812
810
808
806
804

20.3 817.34
20 816.98
20.2 817.09
20.4 817.19
10 LF 15" SSPRC CLASS III @ 1.03%
810.97
811.92
810.97
811.07
811.07
812.19
50 LF 15" SSPRC CLASS II @ 2.26%
45 LF 15" SSPRC CLASS II @ 2.13%

20 816.98
20.1 808.00
84 LF 15" SSPRC CLASS III @ 3.55%
810.97

21 816.62
21.1 810.00
811.64
62 LF 15" SSPRC CLASS III @ 2.65%

23 818.61
813.61
71 LF 15" SSPRC CLASS II @ 2.00%
812.19
23.1

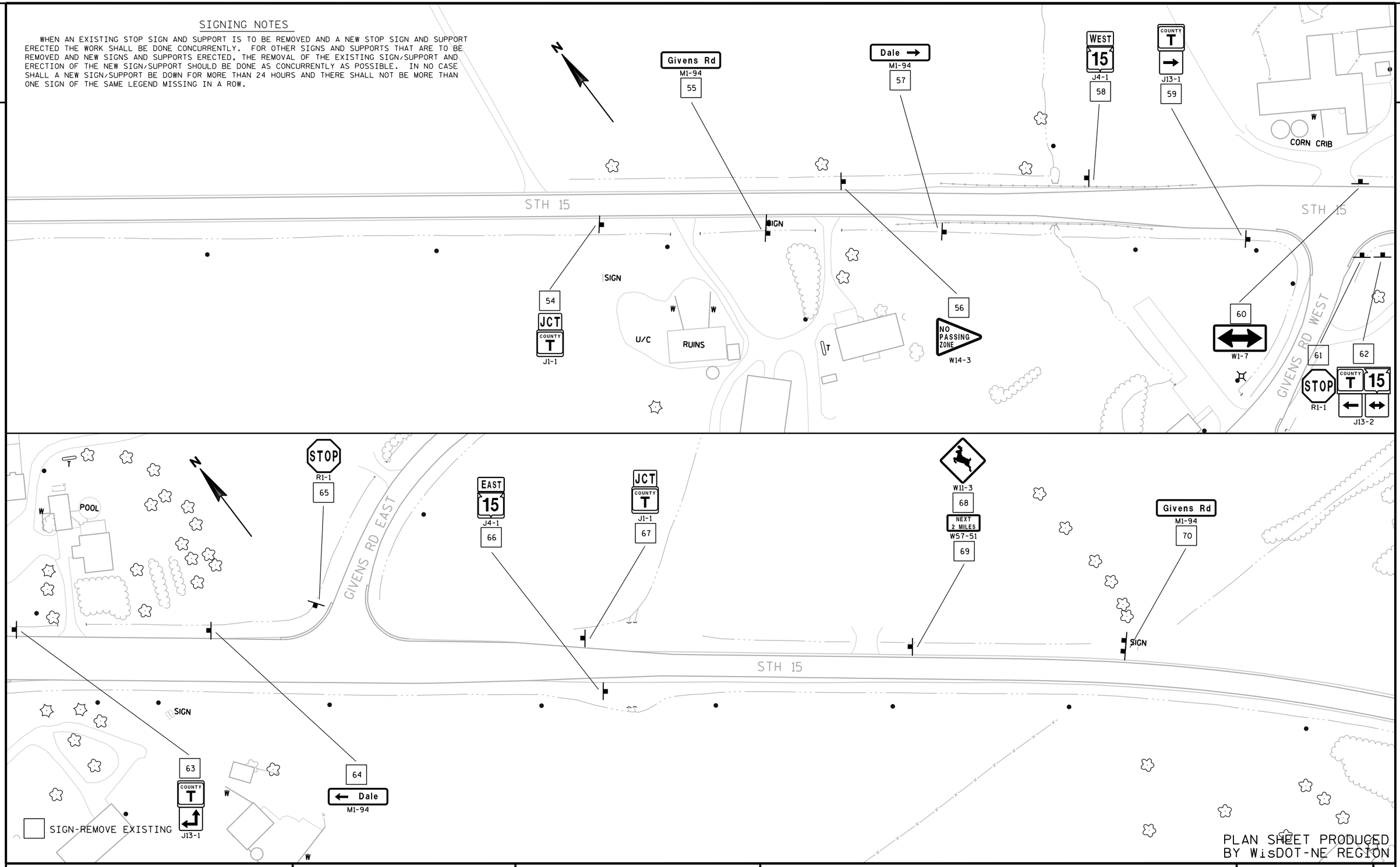
22. 817.94
48 LF 15" SSPRC CLASS III @ 6.21%
812.44

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	STORM SEWER	SHEET 30	E

FILE NAME : C:\USERS\MUTHCM\DOCUMENTS\11467571-UPDATED\11467571\SHEETSPLAN\11467576\11467576_022501_SS.DWG
LAYOUT NAME - 022501_SS
PLOT DATE : 7/26/2022 11:19 AM PLOT BY : MUTH, CAMERON PLOT NAME : PLOT SCALE : 1:50_XREF

SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.



PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	SIGN REMOVALS	SHEET	E

FILE NAME : N:\spo\traffic\SIGNING\Projects\1146-75-00 STH 15 Bypass\1146-75-76\023207_ps.dgn PLOT DATE : 10-APR-2017 09:15 PLOT BY : dotets PLOT NAME : PLOT SCALE : 100:1

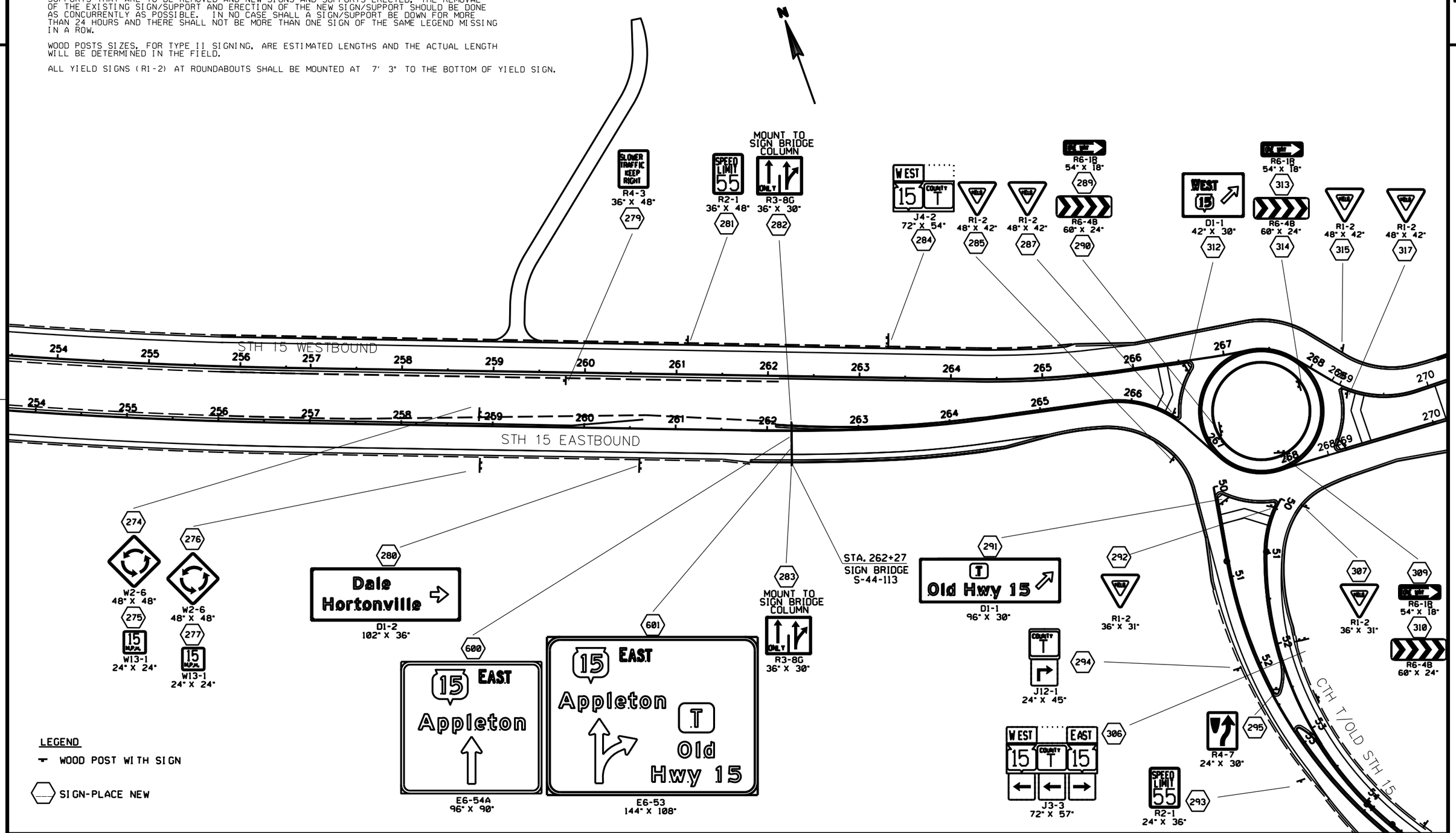
SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

ALL YIELD SIGNS (R1-2) AT ROUNDABOUTS SHALL BE MOUNTED AT 7' 3" TO THE BOTTOM OF YIELD SIGN.

PLAN SHEET PRODUCED BY W=DOT-NE REGION



LEGEND

WOOD POST WITH SIGN

SIGN-PLACE NEW

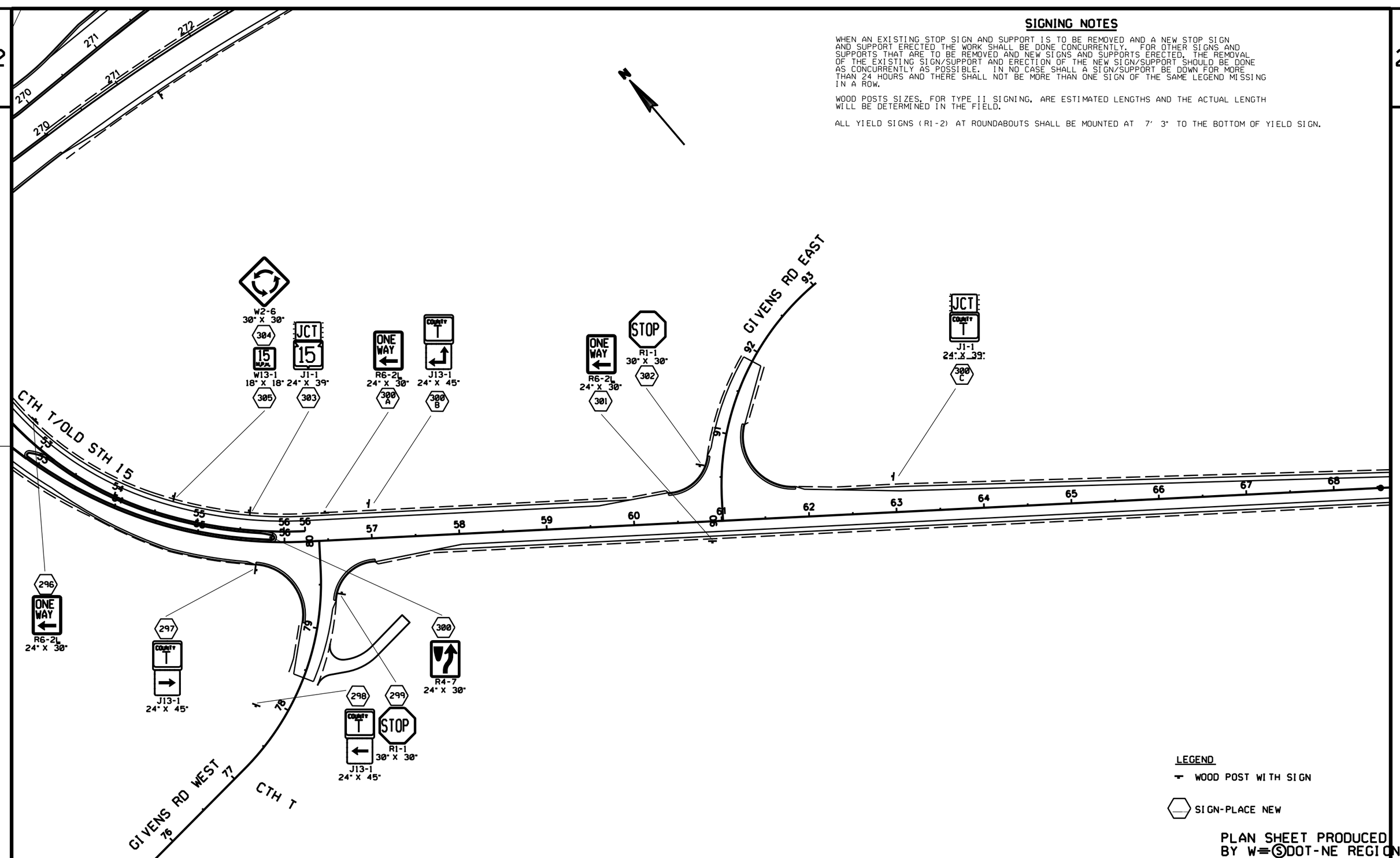
PROJECT NO:1146-75-76	HWY:STH 15	COUNTY:OUTAGAMIE	PERMANENT SIGNING	SHEET 32 E

SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

ALL YIELD SIGNS (R1-2) AT ROUNDABOUTS SHALL BE MOUNTED AT 7' 3" TO THE BOTTOM OF YIELD SIGN.



LEGEND

WOOD POST WITH SIGN

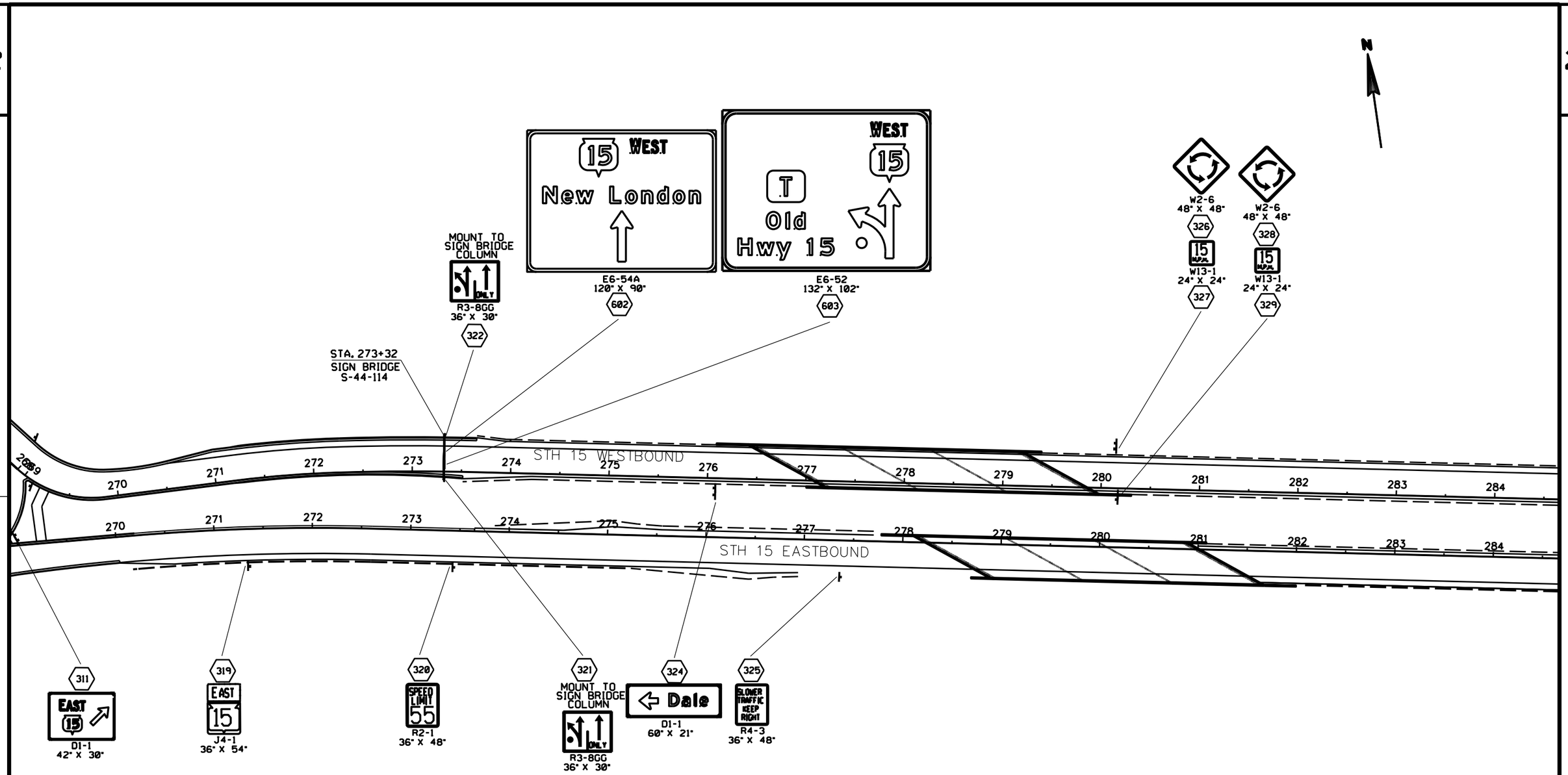
SIGN-PLACE NEW

PLAN SHEET PRODUCED BY W=SDOT-NE REGION

PROJECT NO:1146-75-76	HWY:STH 15	COUNTY:OUTAGAMIE	PERMANENT SIGNING	SHEET E

FILE NAME :$$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42



SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

ALL YIELD SIGNS (R1-2) AT ROUNDABOUTS SHALL BE MOUNTED AT 7' 3" TO THE BOTTOM OF YIELD SIGN.

LEGEND

- WOOD POST WITH SIGN
- STEEL POST AND V-LOCK WITH SIGN
- SIGN-PLACE NEW

PLAN SHEET PRODUCED BY W=(S)DOT-NE REGION

PROJECT NO:1146-75-76	HWY:STH 15	COUNTY:OUTAGAMIE	PERMANENT SIGNING	SHEET E

FILE NAME :$$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

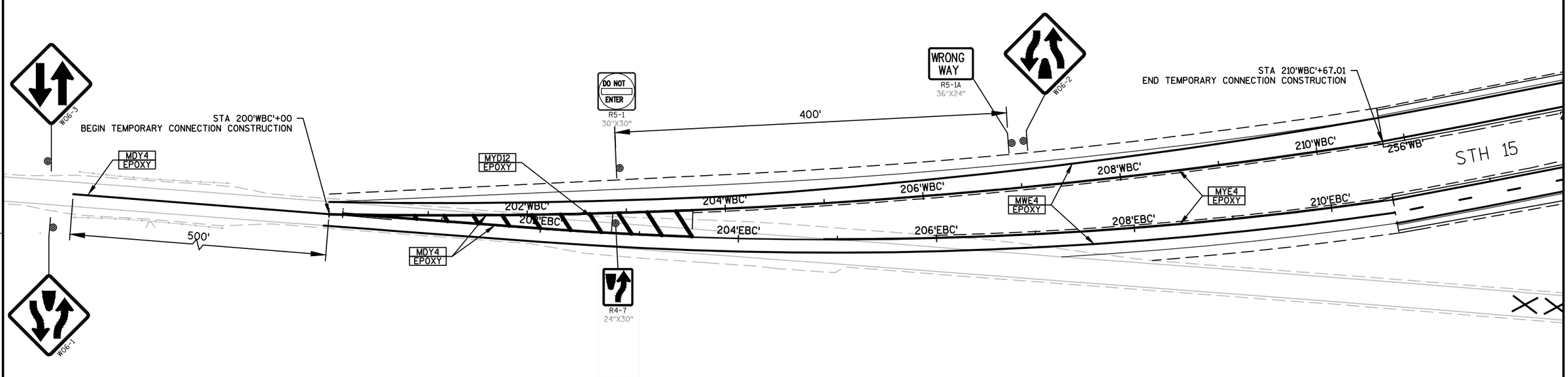
ARW1	ARROWS TYPE 1 (WHITE)
ARW2	ARROWS TYPE 2 (WHITE)
ARW3	ARROWS TYPE 3 (WHITE)
ARW3R	ARROWS TYPE 3R (WHITE)
ARW5	ARROWS TYPE 5 (WHITE)
INY	ISLAND NOSE (YELLOW)
MWE4	4-INCH (WHITE EDGE LINE)
MWL4	4-INCH (WHITE LANE LINE)
MYE4	4-INCH (YELLOW EDGE LINE)
MDY4	4-INCH DOUBLE YELLOW
MWB	8-INCH (WHITE CHANNELIZING)
MOWY	WORDS (WHITE) ("YIELD")
MOWO	WORDS (WHITE) ("ONLY")
WS8-6	8-INCH (WHITE SKIPX6' SEG., 3' GAP)
MYD12	12-INCH DIAGONAL 25' SPACING (YELLOW)
WS18-2	18-INCH (WHITE SKIPX2' SEG., 2' GAP)

LEGEND NOTES:

"TAPE" IS GROOVED CONTRAST PERMANENT TAPE
"G.EPOXY" IS GROOVED WET REFLECTIVE EPOXY

SEE "PAVEMENT MARKING" SDDs FOR ADDITIONAL DETAILS.

PLACE SIGNING AND MARKING IN ACCORDANCE WITH SDD "SIGNING AND MARKING FOR TWO LANE TO FOUR LANE DIVIDED TRANSITIONS"



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"x48" UNLESS NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	PAVEMENT MARKING - TEMPORARY CONNECTION	SHEET 35	E

ARW1	ARROWS TYPE 1 (WHITE)
ARW2	ARROWS TYPE 2 (WHITE)
ARW3	ARROWS TYPE 3 (WHITE)
ARW3R	ARROWS TYPE 3R (WHITE)
ARW5	ARROWS TYPE 5 (WHITE)
INY	ISLAND NOSE (YELLOW)
MWE4	4-INCH (WHITE EDGE LINE)
MWL4	4-INCH (WHITE LANE LINE)
MYE4	4-INCH (YELLOW EDGE LINE)
MDY4	4-INCH DOUBLE YELLOW
MW8	8-INCH (WHITE CHANNELIZING)
MDWY	WORDS (WHITE) ("YIELD")
MDWO	WORDS (WHITE) ("ONLY")
WS8-6	8-INCH (WHITE SKIPX6' SEG., 3' GAP)
MYD12	12-INCH DIAGONAL 25' SPACING (YELLOW)
WS18-2	18-INCH (WHITE SKIP12' SEG., 2' GAP)

LEGEND NOTES:

"TAPE" IS GROOVED CONTRAST PERMANENT TAPE
"G.EPOXY" IS GROOVED WET REFLECTIVE EPOXY

SEE "PAVEMENT MARKING" SDDs FOR ADDITIONAL DETAILS.

NOTE 1:
BEGIN 'WB' MWL4 PLACEMENT IN ACCORDANCE WITH SDD "SIGNING AND MARKING FOR TWO LANE TO FOUR LANE DIVIDED TRANSITIONS"

W04-2-R

RIGHT LANE ENDS
W09-1-R

500'
250'
500'

SEE NOTE 1

MWL4 G.C.E.

210'WBC'
256'WB'
258'WB'
260'WB'
262'WB'
264'WB'
266'WB'
268'WB'
270'WB'

STH 15

210'EBC'
258'EB'
260'EB'
262'EB'
264'EB'
266'EB'
268'EB'
270'EB'

MYE4 G.EPOXY
ARW1 EPOXY
MWE4 G.EPOXY
ARW3 EPOXY
MW8 G.EPOXY
MDWY EPOXY
WS18-2 EPOXY
WS8-6 G.EPOXY
ARW3R EPOXY
MWL4 G.C.E.

STA 256'EB'+00
END TEMPORARY CONNECTION PAVEMENT MARKING

*ADD SECOND SET ARW1 & ARW3R G.EPOXY TO COINCIDE WITH OHSS STA 273'WB'+32

16'
14'
12'

OLD STH 15 WEST
520'LE'
520'LW'
540'LE'
540'LW'

WS18-2 G.EPOXY
MDWY G.EPOXY
INY EPOXY
ARW2 EPOXY

GENERAL NOTES

CONTACT NORTHEAST REGION TRAFFIC SECTION (MIKE FREWERD) AT 920-492-5653 A MINIMUM OF ONE WEEK PRIOR TO ROUNDABOUT PAVEMENT MARKING LAYOUT.

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"x48" UNLESS NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	PAVEMENT MARKING - STH 15/CTH T ROUNDABOUT	SHEET	E

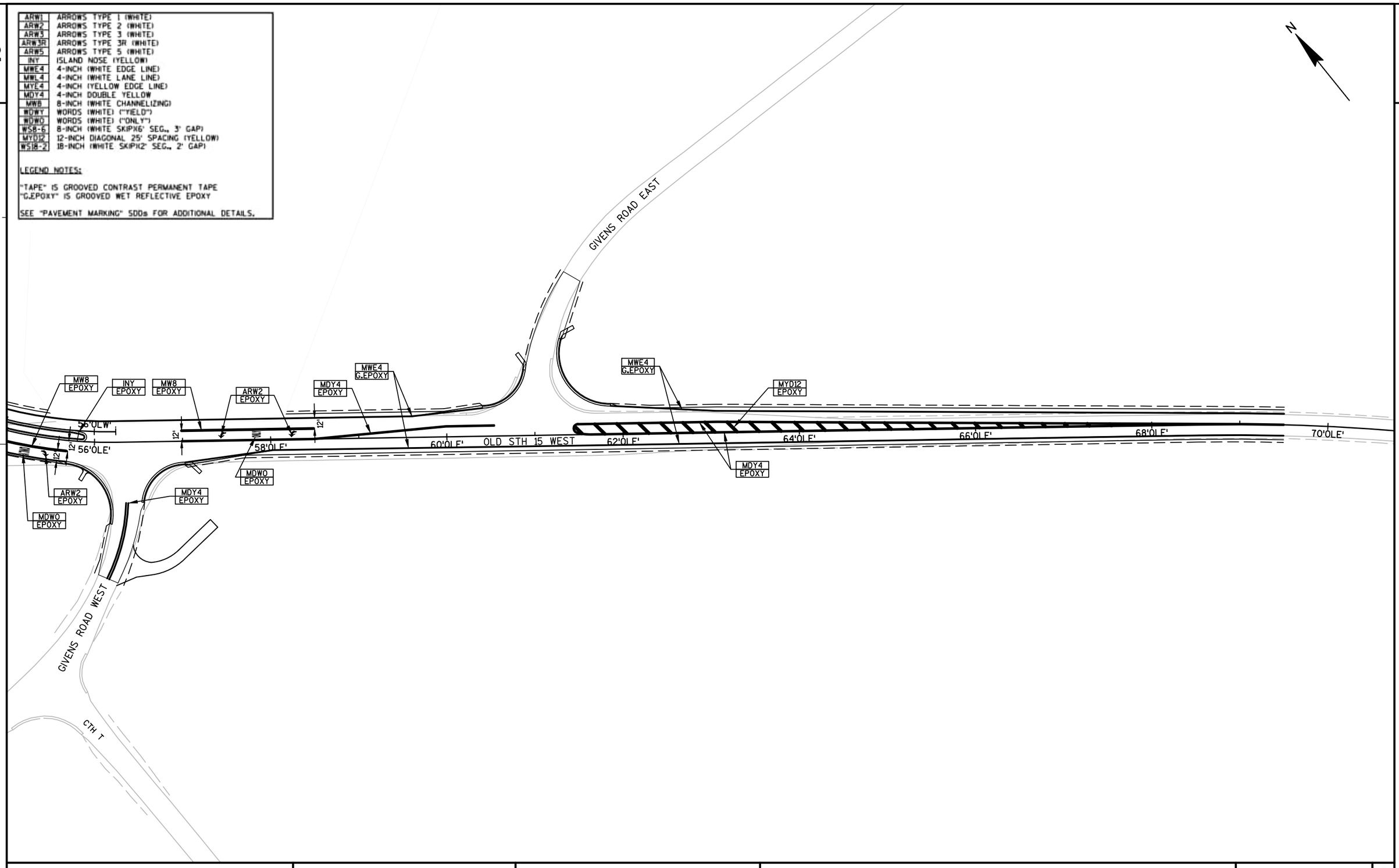
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LAYOUT NAME - 024502_PM
PLOT DATE : 4/24/2019 1:09 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1IN = 100FT_XREF
WISDOT/CADDS SHEET 42

ARW1	ARROWS TYPE 1 (WHITE)
ARW2	ARROWS TYPE 2 (WHITE)
ARW3	ARROWS TYPE 3 (WHITE)
ARW3R	ARROWS TYPE 3R (WHITE)
ARW5	ARROWS TYPE 5 (WHITE)
INY	ISLAND NOSE (YELLOW)
MWE4	4-INCH (WHITE EDGE LINE)
MWL4	4-INCH (WHITE LANE LINE)
MYE4	4-INCH (YELLOW EDGE LINE)
MDY4	4-INCH DOUBLE YELLOW
MW8	8-INCH (WHITE CHANNELIZING)
MDWY	WORDS (WHITE) ("YIELD")
MDWO	WORDS (WHITE) ("ONLY")
WS8-6	8-INCH (WHITE SKIPX6' SEG., 3' GAP)
MYD12	12-INCH DIAGONAL 25' SPACING (YELLOW)
WS18-2	18-INCH (WHITE SKIPX2' SEG., 2' GAP)

LEGEND NOTES:

"TAPE" IS GROOVED CONTRAST PERMANENT TAPE
"G.EPOXY" IS GROOVED WET REFLECTIVE EPOXY

SEE "PAVEMENT MARKING" SDDs FOR ADDITIONAL DETAILS.



2

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	PAVEMENT MARKING - OLD STH 15 WEST, GIVENS ROAD	SHEET 37	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467576\11467576_024501_PM.DWG
LAYOUT NAME - 024503_PM
PLOT DATE : 11/8/2017 1:22 PM PLOT BY : SPIELMACHER, JOHN P PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

LEGEND

STAGE 1 WORK ZONE

N

OAK

GIVENS RD

CTH I

Compiled By: Continental Mapping Consultants
Date: 08-11-11
Photography Date: 04-25-11

CONSTRUCTION ID: 1146-75-73
(FUTURE)

10-FT CONSTRUCTION CLEAR ZONE
FROM EXISTING STH 15

PLACE DRUMS ALONG SHOULDER (TYP.)

C-44-124

TEMPORARY CHANNEL
C-44-126

STA. 275'EB'+00
CONSTRUCTION ID: 1146-75-77
(CONCURRENT)

B-44-290
(EXIST.)

B-44-289
(EXIST.)

CONSTRUCT TEMPORARY ACCESS
PRIOR TO DETOURING STH 15 TRAFFIC
SEE TEMPORARY DRIVEWAY CONSTRUCTION DETAILS

STAGE 1

MAINTENANCE OF TRAFFIC:
-STH 15 TRAFFIC REMAINS ON EXISTING ALIGNMENT

CONSTRUCTION ACTIVITIES:
-CONSTRUCT BOX CULVERT C-44-124 AND TEMPORARY CHANNEL
-CONSTRUCT STH 15 FROM STA 256'EB'+00 - 275'EB'+00
-CONSTRUCT OLD STH 15 FROM STA 50'0LE'+00 - 52'0LE'+85

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	STAGE 1	SHEET 38	E

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- STAGE 2 WORK ZONE

N

TEMPORARY CONNECTION EXISTING TO NEW STH 15
STA 200'EBC'+00 TO 210'EBC'+61.62
(SEE TEMPORARY CONNECTION DETAIL SHEET)

CONSTRUCTION ID: 1146-75-73
(FUTURE)

OBLITERATE ROAD

C-44-124

C-44-126

STA. 275'EB'+00
CONSTRUCTION ID: 1146-75-77
(CONCURRENT)

INSTALL GUARDRAIL
STA. 273'WB'+12.86 TO PARAPET OF B-44-290

B-44-290
(EXIST.)

B-44-289
(EXIST.)

GIVENS ROAD EAST/WEST CLOSED
SEE DETOUR PLAN
SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURE"

ROAD CLOSED AHEAD
W20-3-A

ROAD CLOSED
R11-2
48"X30"

ROAD CLOSED 500 FT
W20-3-D

ROAD CLOSED AHEAD
W20-3-A

500'

*PLACE AT THE INTERSECTION OF GIVENS ROAD AND STH 15 (IN TOWN)

STAGE 2

MAINTENANCE OF TRAFFIC:
-STH 15 TRAFFIC MOVES TO DETOUR
-GIVENS ROAD EAST AND WEST CLOSED (+/- 1 MONTH)

CONSTRUCTION ACTIVITIES:
-CONSTRUCT CONNECTION FROM ROUNDABOUT TO OLD STH 15 WEST AND TEMPORARY CONNECTION BETWEEN THE NEWLY CONSTRUCTED STH 15 BYPASS AND THE WEST SEGMENT OF STH 15
-CONSTRUCT BOX CULVERT C-44-126 AND PERMANENT CHANNEL
-CONSTRUCT GIVENS ROAD EAST AND WEST INTERSECTIONS WITH OLD STH 15
-OBLITERATE REMAINING PORTION OF EXISTING STH 15

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	STAGE 2	SHEET 39	E

2

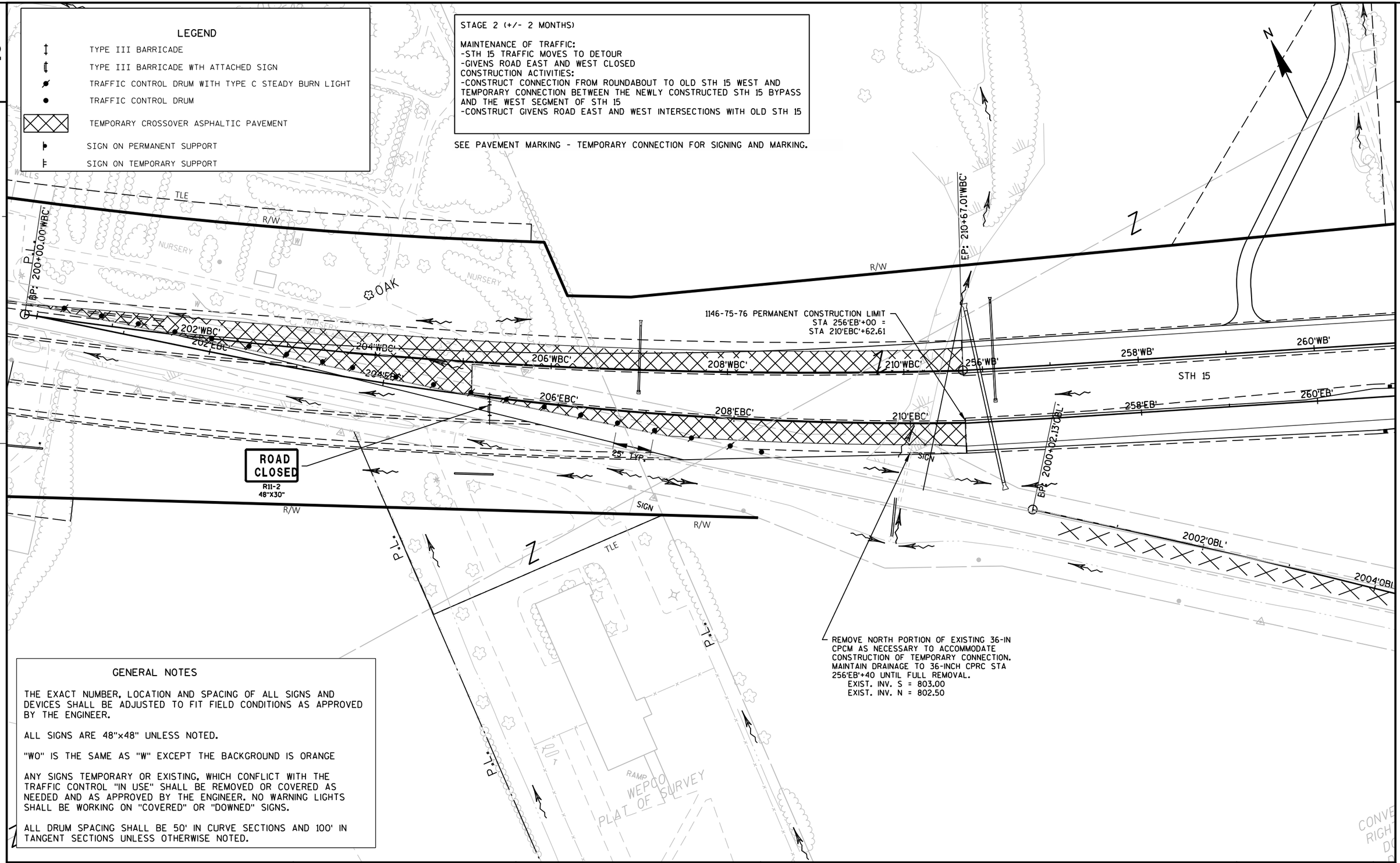
LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- TEMPORARY CROSSOVER ASPHALTIC PAVEMENT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT

STAGE 2 (+/- 2 MONTHS)

MAINTENANCE OF TRAFFIC:
-STH 15 TRAFFIC MOVES TO DETOUR
-GIVENS ROAD EAST AND WEST CLOSED
CONSTRUCTION ACTIVITIES:
-CONSTRUCT CONNECTION FROM ROUNDABOUT TO OLD STH 15 WEST AND TEMPORARY CONNECTION BETWEEN THE NEWLY CONSTRUCTED STH 15 BYPASS AND THE WEST SEGMENT OF STH 15
-CONSTRUCT GIVENS ROAD EAST AND WEST INTERSECTIONS WITH OLD STH 15

SEE PAVEMENT MARKING - TEMPORARY CONNECTION FOR SIGNING AND MARKING.



REMOVE NORTH PORTION OF EXISTING 36-IN CPCM AS NECESSARY TO ACCOMMODATE CONSTRUCTION OF TEMPORARY CONNECTION. MAINTAIN DRAINAGE TO 36-INCH CPRC STA 256'EB'+40 UNTIL FULL REMOVAL.
EXIST. INV. S = 803.00
EXIST. INV. N = 802.50

GENERAL NOTES

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ALL DRUM SPACING SHALL BE 50' IN CURVE SECTIONS AND 100' IN TANGENT SECTIONS UNLESS OTHERWISE NOTED.

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	STAGE 2 - TEMPORARY CONNECTION DETAIL	SHEET 40	E

2

DETAIL 6
(SEE SHEET 6 OF 6)

COVER AS SHOWN

15 OO

Northland Ave

1 Mile

LEGEND

- X — SIGN NUMBER. REFER TO MISCELLANEOUS QUANTITY SHEET
- ▲ PCMS X — PORTABLE CHANGEABLE MESSAGE SIGN
- SIGN MOUNTED ON TYPE III BARRICADE
- POST MOUNTED SIGN

WORK ZONE

PCMS 84

ROAD CLOSED
2.1 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
60" X 30"
85

ROAD CLOSED
5.8 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
60" X 30"
86

15
M1-6
36" X 36"

DETOUR AHEAD
W20-2A
48" X 48"
2

15
M1-6
36" X 36"

DETOUR AHEAD
W20-2A
48" X 48"
3

TO
M4-5
24" X 12"
15
M1-6
24" X 24"
M06-1
21" X 21"
64

TO
M4-5
36" X 18"
15
M1-6
36" X 36"
M06-1
30" X 30"
62

TO
M4-5
24" X 12"
15
M1-6
24" X 24"
M06-1
21" X 21"
63

DETAIL 2
(SEE SHEET 2 OF 6)

DETAIL 3
(SEE SHEET 3 OF 6)

DETAIL 4
(SEE SHEET 4 OF 6)

DETAIL 5
(SEE SHEET 5 OF 6)

COVER AS SHOWN

15 OO TO A

Northland Ave

1/4 MILE

EXIT ONLY

TO M4-5 36" X 18" 15 M1-6 36" X 36" M06-1 30" X 30"
41

TO M4-5 36" X 18" 15 M1-6 36" X 36" M06-1 30" X 30"
40

TO M4-5 36" X 18" 15 M1-6 36" X 36" M06-1 30" X 30"
39

TO M4-5 36" X 18" 15 M1-6 36" X 36" M05-2R 30" X 30"
38

TO M4-5 36" X 18" 15 M1-6 36" X 36" M06-1 30" X 30"
37

TO M4-5 36" X 18" 15 M1-6 36" X 36" M05-2R 30" X 30"
32

TO M4-5 36" X 18" 15 M1-6 36" X 36" M06-1 30" X 30"
31

TO M4-5 36" X 18" 15 M1-6 36" X 36" M06-1 30" X 30"
30

TO M4-5 36" X 18" 15 M1-6 36" X 36" M06-1 30" X 30"
29

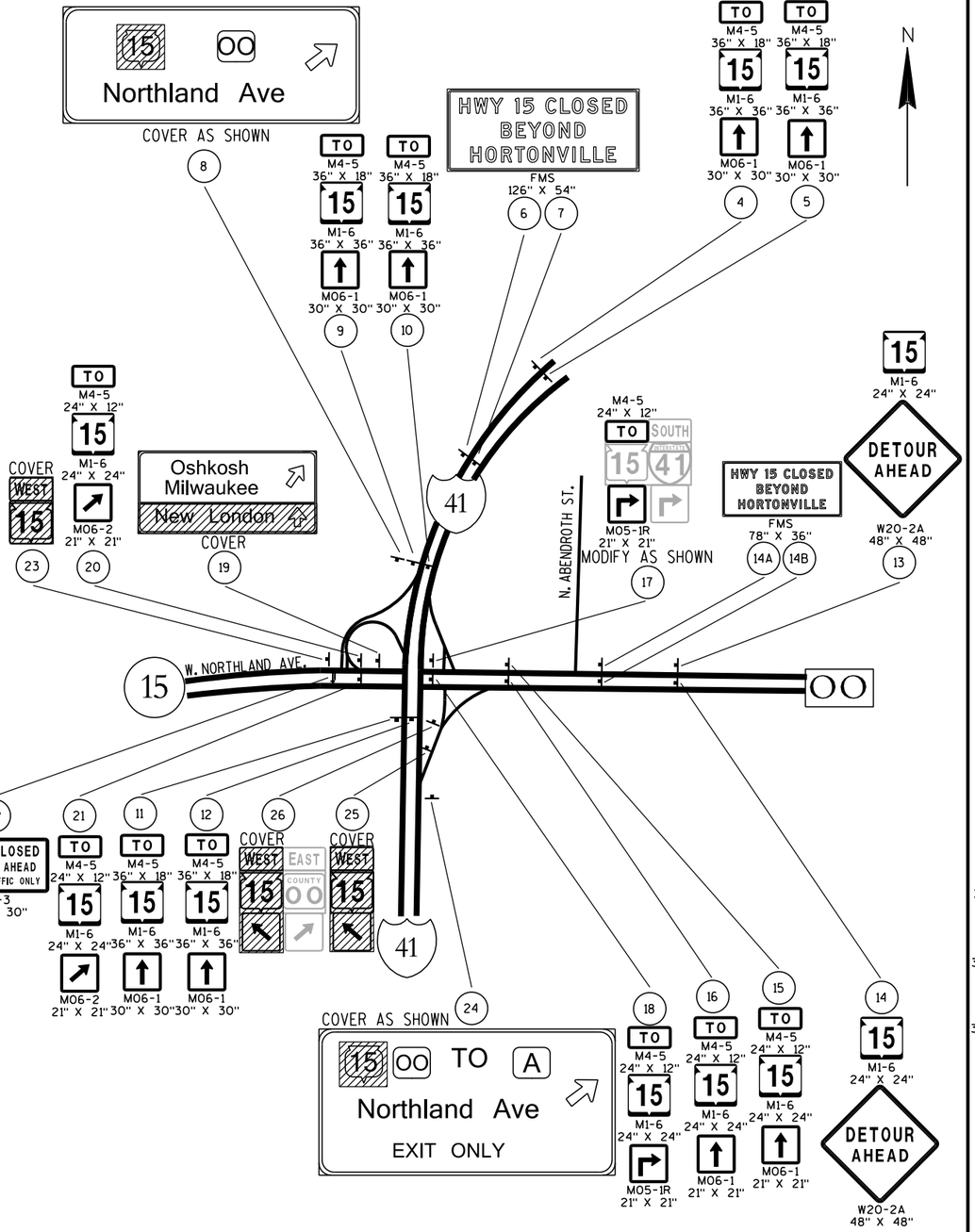
TO M4-5 36" X 18" 15 M1-6 36" X 36" M06-1 30" X 30"
28

SHEET 1 OF 4

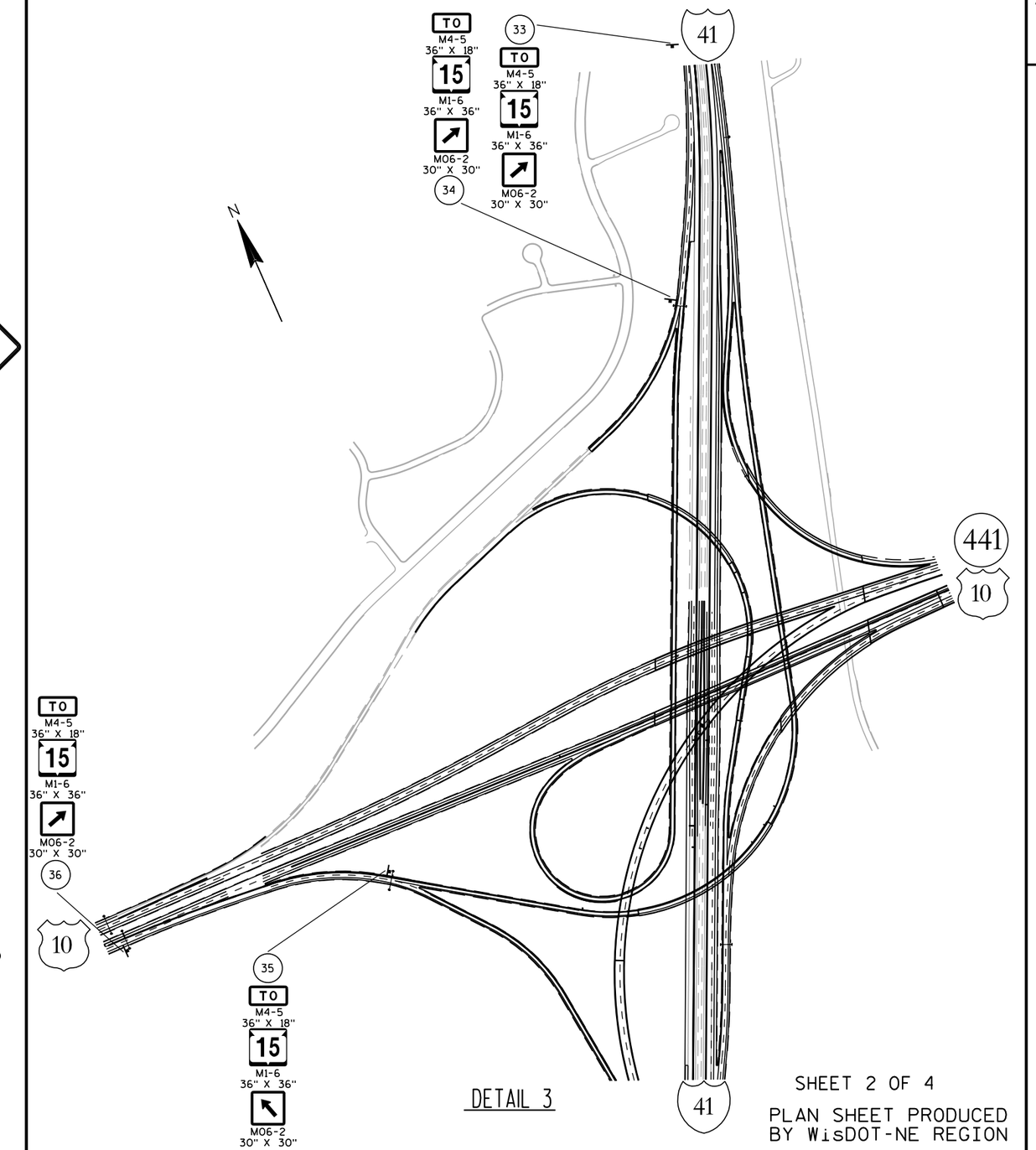
PLAN SHEET PRODUCED
BY WisDOT - NE REGION

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	DETOUR OVERVIEW	SHEET 41	E

FILE NAME : N:\spo\traffic\A Work Zone\Detours\Outagamie County\STH 15\West Segment\1146-75-76\027001_dt.dgn PLOT BY : dotj1f PLOT DATE : 18-FEB-2016 08:29 PLOT SCALE : 9000:1



DETAIL 2



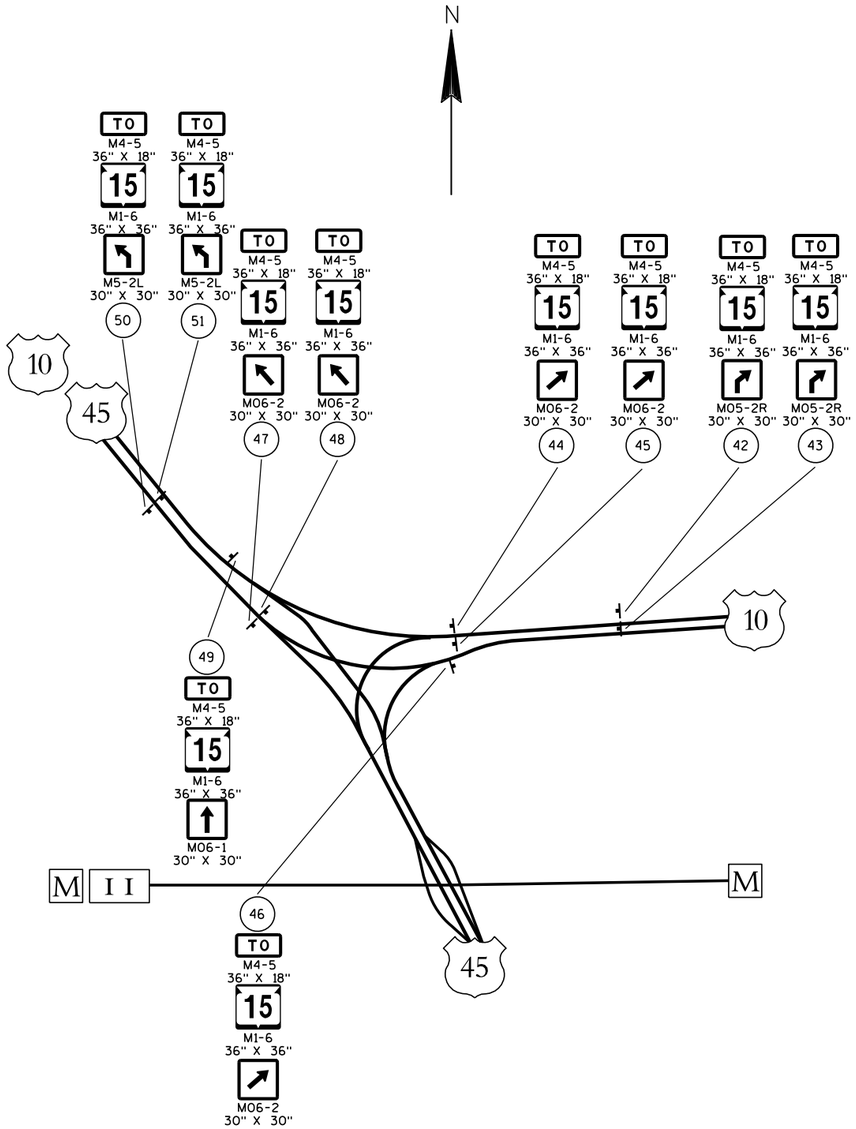
DETAIL 3

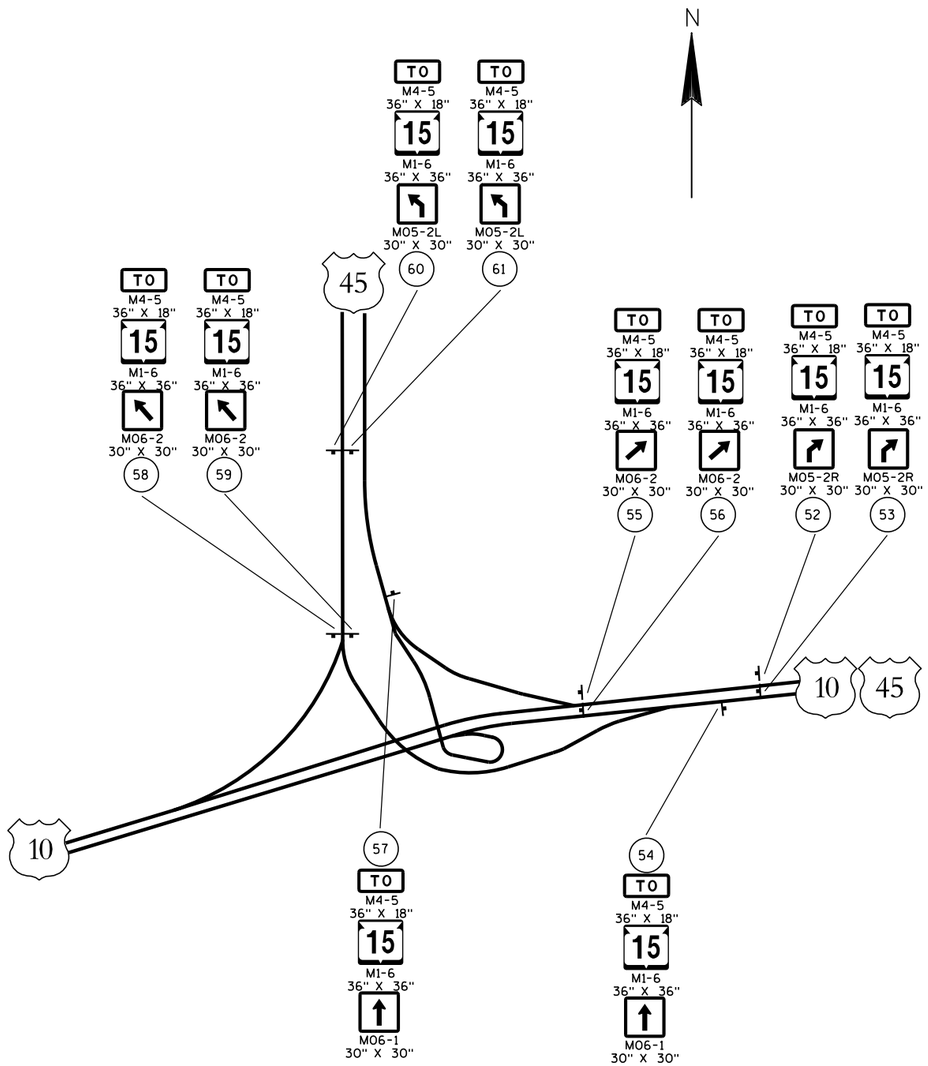
SHEET 2 OF 4

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	DETOUR SIGNING DETAIL	SHEET 42	E

FILE NAME : N:\spo\traffic\A Work Zone\Detours\Outagamie County\STH 15\West Segment\027002_dt.dgn PLOT DATE : 26-JAN-2016 14:38 PLOT BY : dotjlf PLOT NAME : PLOT SCALE : 12000:1
WISDOT/CADDS SHEET 42





LEGEND

(X) SIGN NUMBER. REFER TO MISCELLANEOUS QUANTITY SHEET

SIGN MOUNTED ON TYPE III BARRICADE

POST MOUNTED SIGN

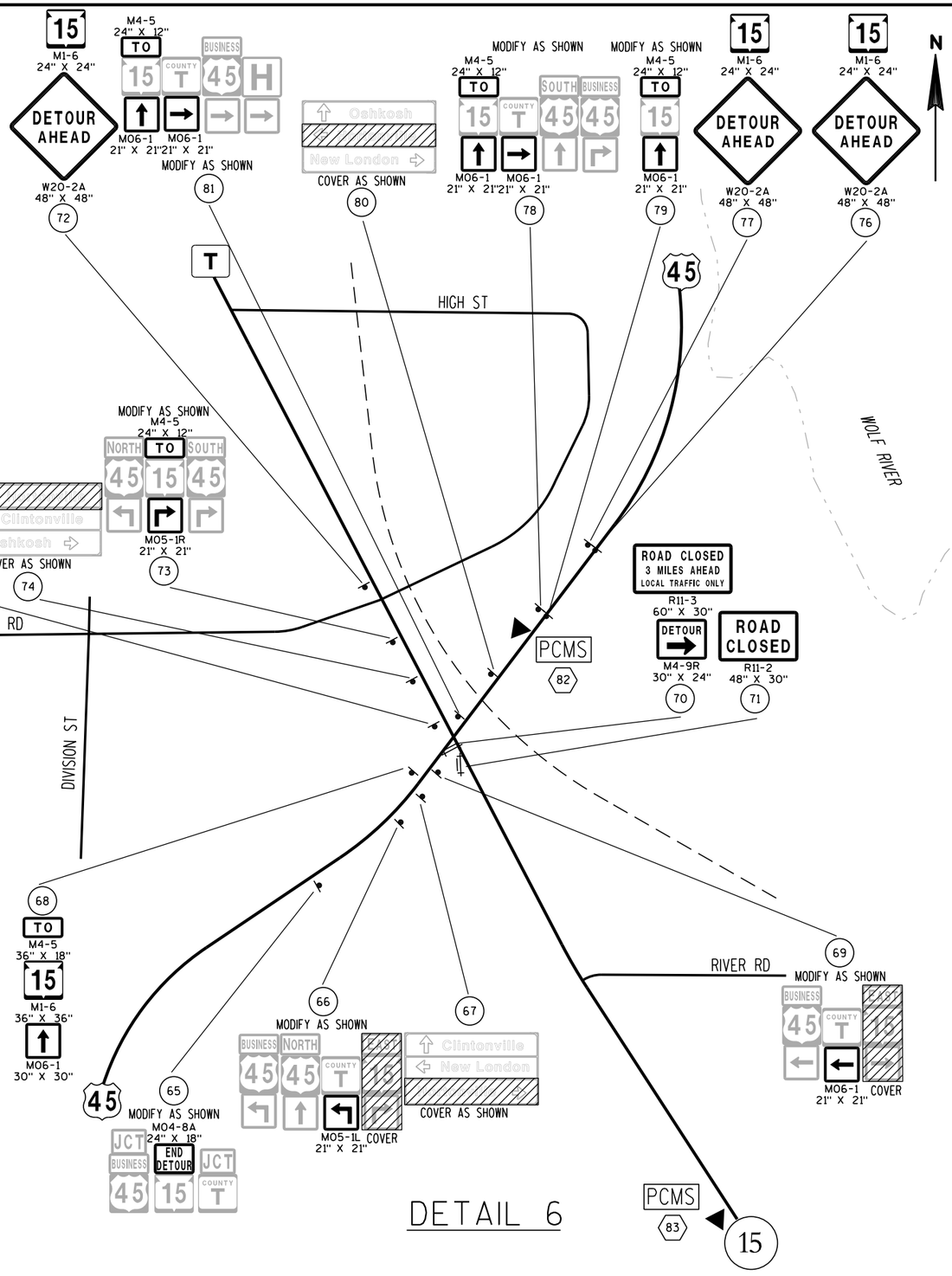
DETAIL 4

DETAIL 5

SHEET 3 OF 4

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	DETOUR SIGNING DETAIL	SHEET 43	E



LEGEND

- (X) SIGN NUMBER. REFER TO MISCELLANEOUS QUANTITY SHEET
- ▲ PCMS (X) PORTABLE CHANGEABLE MESSAGE SIGN
- SIGN MOUNTED ON TYPE III BARRICADE
- POST MOUNTED SIGN

DETAIL 6

SHEET 4 OF 4

PLAN SHEET PRODUCED BY WisDOT - NE REGION

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	DETOUR SIGNING DETAIL	SHEET 44	E

FILE NAME : N:\spo\traffic\A Work Zone\Detours\Outagamie County\STH 15\West Segment\1146-75-76\027005_dt.dgn PLOT BY : dotj1f PLOT DATE : 18-FEB-2016 08:30 PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

2

CURVE WB-1
PI STA = 245'WB'+26.67
Y = 594521.452
X = 755047.348
DELTA = 22°06'05"
D = 0°57'18"
T = 1171.80'
L = 2314.46'
R = 6000.00'
PC STA = 233'WB'+54.88
Y = 595324.259
X = 754193.763
PT STA = 256'WB'+69.34
Y = 594098.795
X = 756140.265
BK = S46°45'21.2"E
AH = S68°51'26.5"E

CURVE WB-2
PI STA = 265'WB'+09.66
Y = 593804.046
X = 756902.435
DELTA = 9°07'36"
D = 5°35'04"
T = 81.89'
L = 163.43'
R = 1026.00'
PC STA = 264'WB'+27.77
Y = 593833.583
X = 756826.058
PT STA = 265'WB'+91.20
Y = 593786.998
X = 756982.531
BK = S68°51'26.5"E
AH = S77°59'02.8"E

*FOR CURVES WB-2, WB-3, WB-4, WB-5, WB-6 AND WB-7 REFER TO THE PAVEMENT GRADES DETAIL FOR SUPERELEVATION TRANSITIONS

CURVE WB-3
PI STA = 267'WB'+03.37
Y = 593763.647
X = 757092.240
DELTA = 4°26'05"
D = 9°32'57"
T = 23.23'
L = 46.44'
R = 600.00'
PC STA = 266'WB'+80.14
Y = 593768.484
X = 757069.517
PT STA = 267'WB'+26.58
Y = 593760.582
X = 757115.269
BK = S77°59'02.8"E
AH = S82°25'08.1"E

CURVE WB-4
PI STA = 267'WB'+53.61
Y = 593757.016
X = 757142.065
DELTA = 43°21'34"
D = 84°15'31"
T = 27.03'
L = 51.46'
R = 68.00'
PC STA = 267'WB'+26.58
Y = 593760.582
X = 757115.269
PT STA = 267'WB'+78.04
Y = 593736.025
X = 757159.099
BK = S82°25'08.1"E
AH = S39°03'34.1"E

CURVE WB-5
PI STA = 269'WB'+42.05
Y = 593657.684
X = 757222.673
DELTA = 49°22'29"
D = 51°09'25"
T = 51.48'
L = 96.52'
R = 112.00'
PC STA = 268'WB'+90.56
Y = 593697.661
X = 757190.232
PT STA = 269'WB'+87.08
Y = 593656.277
X = 757274.138
BK = S39°03'34.1"E
AH = S88°26'03.1"E

CURVE WB-6
PI STA = 271'WB'+74.35
Y = 593651.160
X = 757461.338
DELTA = 5°27'09"
D = 5°12'31"
T = 52.38'
L = 104.68'
R = 1100.00'
PC STA = 271'WB'+21.97
Y = 593652.591
X = 757408.977
PT STA = 272'WB'+26.65
Y = 593644.760
X = 757513.327
BK = S88°26'03.1"E
AH = S82°58'53.7"E

CURVE WB-7
PI STA = 272'WB'+95.67
Y = 593636.326
X = 757581.833
DELTA = 3°09'47"
D = 2°17'31"
T = 69.02'
L = 138.01'
R = 2500.00'
PC STA = 272'WB'+26.65
Y = 593644.760
X = 757513.327
PT STA = 273'WB'+64.66
Y = 593624.125
X = 757649.769
BK = S82°58'53.7"E
AH = S79°49'07.0"E

CURVE EB-1
PI STA = 245'EB'+38.39
Y = 594469.717
X = 755014.777
DELTA = 22°06'05"
D = 0°56'44"
T = 1183.51'
L = 2337.60'
R = 6060.00'
PC STA = 233'EB'+54.88
Y = 595280.553
X = 754152.657
PT STA = 256'EB'+92.48
Y = 594042.834
X = 756118.623
BK = S46°45'21.2"E
AH = S68°51'26.5"E

CURVE EB-2
PI STA = 262'EB'+57.27
Y = 593839.120
X = 756645.393
DELTA = 3°26'21"
D = 2°17'31"
T = 75.05'
L = 150.06'
R = 2500.00'
PC STA = 261'EB'+82.22
Y = 593866.191
X = 756575.392
PT STA = 263'EB'+32.28
Y = 593816.297
X = 756716.891
BK = S68°51'26.5"E
AH = S72°17'47.3"E

CURVE EB-3
PI STA = 263'EB'+83.91
Y = 593800.596
X = 756766.079
DELTA = 5°22'30"
D = 5°12'31"
T = 51.63'
L = 103.19'
R = 1100.00'
PC STA = 263'EB'+32.28
Y = 593816.297
X = 756716.891
PT STA = 264'EB'+35.47
Y = 593789.572
X = 756816.522
BK = S72°17'47.3"E
AH = S77°40'16.9"E

CURVE EB-4
PI STA = 266'EB'+21.84
Y = 593749.777
X = 756998.597
DELTA = 49°22'29"
D = 51°09'25"
T = 51.48'
L = 96.52'
R = 112.00'
PC STA = 265'EB'+70.36
Y = 593760.770
X = 756948.300
PT STA = 266'EB'+66.87
Y = 593704.445
X = 757023.003
BK = S77°40'16.9"E
AH = S28°17'48.0"E

*FOR CURVES EB-2, EB-3, EB-4, EB-5, EB-6 AND EB-7 REFER TO THE PAVEMENT GRADES DETAIL FOR SUPERELEVATION TRANSITIONS

CURVE EB-5
PI STA = 267'EB'+55.80
Y = 593626.141
X = 757065.159
DELTA = 60°20'00"
D = 84°15'31"
T = 39.52'
L = 71.60'
R = 68.00'
PC STA = 267'EB'+16.28
Y = 593660.942
X = 757046.423
PT STA = 267'EB'+87.88
Y = 593625.196
X = 757104.672
BK = S28°17'48.0"E
AH = S88°37'47.8"E

CURVE EB-6
PI STA = 268'EB'+09.92
Y = 593624.669
X = 757126.699
DELTA = 2°31'28"
D = 5°43'46"
T = 22.03'
L = 44.06'
R = 1000.00'
PC STA = 267'EB'+87.88
Y = 593625.196
X = 757104.672
PT STA = 268'EB'+31.94
Y = 593623.173
X = 757148.681
BK = S88°37'47.8"E
AH = S86°06'19.9"E

CURVE EB-7
PI STA = 271'EB'+39.75
Y = 593604.869
X = 757417.556
DELTA = 6°17'13"
D = 2°36'16"
T = 120.82'
L = 241.40'
R = 2200.00'
PC STA = 270'EB'+18.93
Y = 593613.075
X = 757297.014
PT STA = 272'EB'+60.33
Y = 593583.512
X = 757536.475
BK = S86°06'19.9"E
AH = S79°49'07.0"E

BEGIN 'EB' CONSTRUCTION

BEGIN 'WB' CONSTRUCTION
STA 256'EB'+00
Y=701263.55
X=657831.33

CURVE WB-1

STA AHEAD: 256'WB'+92.48
STA BACK: 256'WB'+69.34
EQUATION

CURVE EB-1

PT: 256'EB'+92.48

STA 256'EB'+00
Y=701263.55
X=657831.33

PC: 261'EB'+82.22
PCC: 263'EB'+32.28
PT: 264'EB'+35.47
PC: 265'EB'+70.36
PT: 266'EB'+66.87
PC: 267'EB'+16.28

*CURVE EB-2
*CURVE EB-3
*CURVE EB-4
*CURVE EB-5
*CURVE EB-6
*CURVE EB-7

*CURVE WB-2
*CURVE WB-3
*CURVE WB-4
*CURVE WB-5
*CURVE WB-6
*CURVE WB-7

PC: 264'WB'27.77
PT: 265'WB'+91.20
PC: 266'WB'80.14
PRC: 267'WB'+26.58
PT: 267'WB'+78.04
PT: 268'WB'+90.56
PT: 269'WB'+87.08
PC: 271'WB'+21.97
PCC: 272'WB'+26.65
PT: 273'WB'+64.66
PC: 284'WB'+94.49

S68° 51' 26.47"E 735.29'
S68° 51' 26.47"E 489.74'
S77° 40' 16.92"E 134.89'
S77° 59' 02.83"E 88.93'
S39° 03' 34.13"E 49.41'
S88° 26' 03.08"E 134.89'
S79° 49' 06.99"E 1129.83'
S79° 49' 06.99"E 1234.16'
S28° 17' 47.97"E 49.41'
S86° 06' 19.92"E 138.62'
S86° 06' 19.92"E 10.03'

STA AHEAD: 268'WB'+90.56
STA BACK: 268'WB'+27.45
EQUATION

STA AHEAD: 268'EB'+80.31
STA BACK: 268'EB'+42.00
EQUATION

PC: 270'EB'+18.93
PT: 272'EB'+60.33

52'OLE'
52'OLW'
54'OLW'
54'OLE'
56'OLW'
56'OLE'
58'OLE'
60'OLE'
62'OLE'
64'OLE'

12.TR.

R/L STH 15 WB
R/L STH 15 EB
STH 15

END PROJECT
STA 275'EB'+00

R/L EXISTING STH 15 OBLITERATION
STA 2000'OBLT'+00 - 2014'OBLT'+74

R/L OLD STH 15 WEST EB
R/L OLD STH 15 WEST WB

OLD STH 15

2002'OBL T'
2004'OBL T'
2006'OBL T'
2008'OBL T'
2010'OBL T'
2012'OBL T'
2014'OBL T'

256'WB'
258'WB'
260'WB'
262'WB'
264'WB'
266'WB'
268'WB'
270'WB'
272'WB'
274'WB'
276'WB'
278'WB'
280'WB'
282'WB'
284'WB'
286'WB'
288

256'EB'
258'EB'
260'EB'
262'EB'
264'EB'
266'EB'
270'EB'
272'EB'
274'EB'
276'EB'
278'EB'
280'EB'
282'EB'
284'EB'
286'EB'
288

72'GVW' GIVENS ROAD WEST
74'GVW'
76'GVW'
78'GVW'

PC: 77+17.09'GVW'
PT: 79+66.07'GVW'

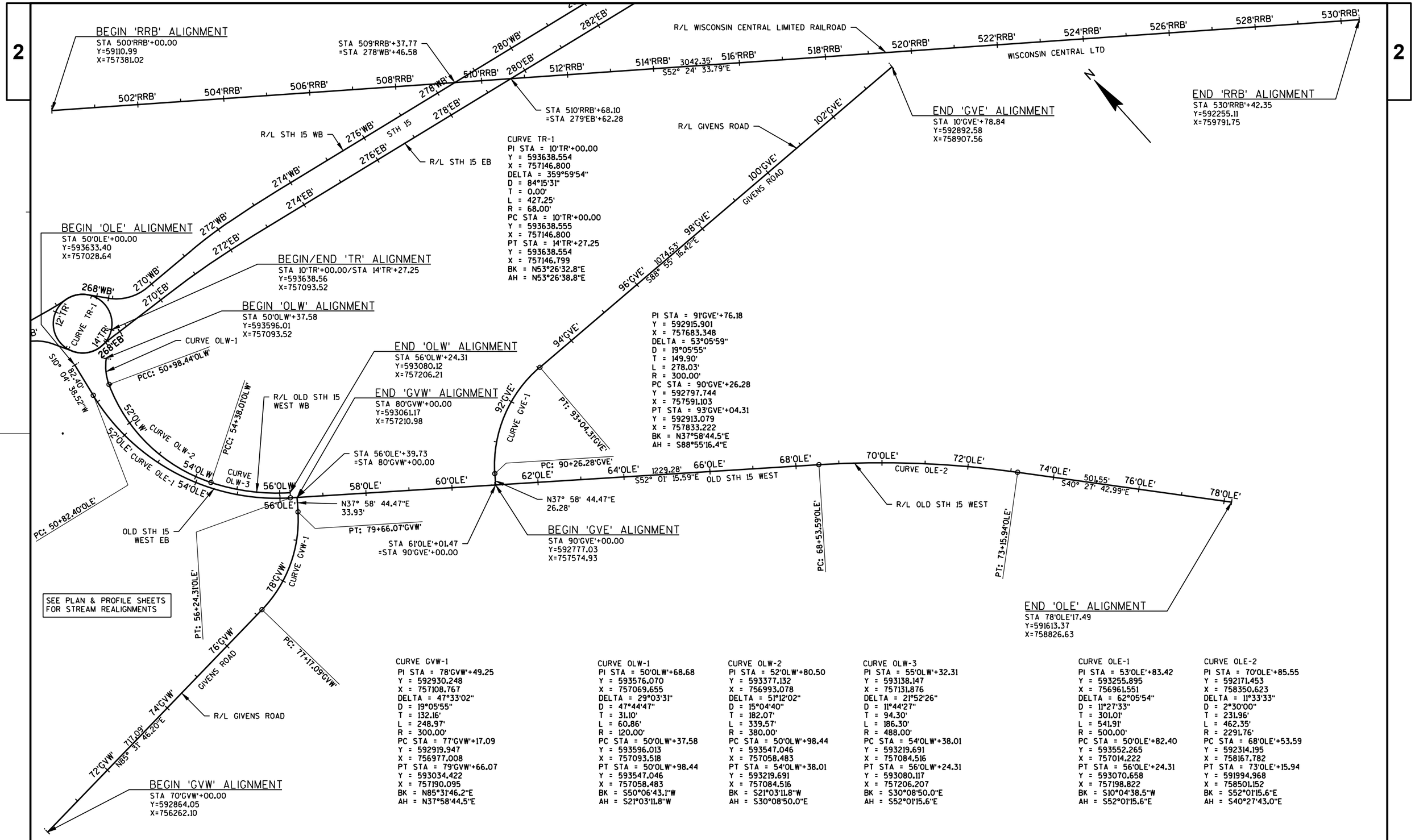
92'GVE'
94'GVE'
96'GVE' GIVENS ROAD EAST
98'GVE'
100'GVE'
102'GVE'

PC: 90+26.28'GVE'
PT: 93+04.31'GVE'

N

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	ALIGNMENT DIAGRAM - STH 15	SHEET 45	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467576\11467576_027201_AD.DWG
LAYOUT NAME - 027201-AD
PLOT DATE : 11/13/2019 6:36 AM PLOT BY : SIMMONS, MASON A PLOT NAME :
PLOT SCALE : 1 IN:200 FT



PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	ALIGNMENT DIAGRAM - LOCAL ROADS	SHEET 46	E

1146-75-76

Line	Item	Item Description	Unit	Total	Qty
0002	108.4300	RBC Progress Schedule	EACH	1.000	1.000
0004	201.0205	Grubbing	STA	39.000	39.000
0006	203.0100	Removing Small Pipe Culverts	EACH	6.000	6.000
0008	203.0220	Removing Structure (structure) 01. C-44-21	EACH	1.000	1.000
0010	204.0150	Removing Curb & Gutter	LF	317.000	317.000
0012	204.0165	Removing Guardrail	LF	600.000	600.000
0014	204.0180	Removing Delineators and Markers	EACH	2.000	2.000
0016	205.0100	Excavation Common	CY	18,870.000	18,870.000
0018	205.0200	Excavation Rock	CY	120.000	120.000
0020	206.2001	Excavation for Structures Culverts (structure) 01. C-44-124	EACH	1.000	1.000
0022	206.2001	Excavation for Structures Culverts (structure) 02. C-44-126	EACH	1.000	1.000
0024	210.2500	Backfill Structure Type B	TON	3,055.000	3,055.000
0028	213.0100	Finishing Roadway (project) 01. 1146-75-76	EACH	1.000	1.000
0032	214.0100	Obliterating Old Road	STA	11.000	11.000
0034	305.0110	Base Aggregate Dense 3/4-Inch	TON	2,439.000	2,439.000
0036	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	25,374.000	25,374.000
0038	311.0110	Breaker Run	TON	1,666.000	1,666.000
0040	311.0115	Breaker Run	CY	175.000	175.000
0042	312.0110	Select Crushed Material	TON	19,859.000	19,859.000
0044	405.0100	Coloring Concrete WisDOT Red	CY	432.000	432.000
0046	415.0090	Concrete Pavement 9-Inch	SY	12,988.000	12,988.000
0050	416.0512	Concrete Truck Apron 12-Inch	SY	457.000	457.000
0054	416.1110	Concrete Shoulder Rumble Strips	LF	2,706.000	2,706.000
0056	455.0605	Tack Coat	GAL	867.000	867.000
0058	460.2000	Incentive Density HMA Pavement	DOL	2,180.000	2,180.000
0060	460.5223	HMA Pavement 3 LT 58-28 S	TON	1,595.000	1,595.000
0062	460.5224	HMA Pavement 4 LT 58-28 S	TON	1,807.000	1,807.000
0064	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	42.000	42.000
0066	465.0125	Asphaltic Surface Temporary	TON	1,396.000	1,396.000
0068	465.0315	Asphaltic Flumes	SY	405.000	405.000
0070	465.0400	Asphaltic Shoulder Rumble Strips	LF	270.000	270.000
0072	504.0100	Concrete Masonry Culverts	CY	203.000	203.000
0074	505.0400	Bar Steel Reinforcement HS Structures	LB	44,090.000	44,090.000
0076	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	1,590.000	1,590.000
0078	516.0500	Rubberized Membrane Waterproofing	SY	43.000	43.000
0080	520.2018	Culvert Pipe Temporary 18-Inch	LF	46.000	46.000
0082	522.0118	Culvert Pipe Reinforced Concrete Class III 18-Inch	LF	402.000	402.000
0084	522.0124	Culvert Pipe Reinforced Concrete Class III 24-Inch	LF	82.000	82.000
0086	522.0136	Culvert Pipe Reinforced Concrete Class III 36-Inch	LF	200.000	200.000
0088	522.1015	Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	EACH	4.000	4.000
0090	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	10.000	10.000
0092	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	2.000	2.000
0094	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	2.000	2.000
0096	522.1036	Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	EACH	2.000	2.000
0098	531.2036	Drilling Shaft 36-Inch	LF	80.000	80.000
0100	531.5420	Foundation Single-Shaft Type TF-II (structure) 01. S-44-113	EACH	2.000	2.000
0102	531.5420	Foundation Single-Shaft Type TF-II (structure) 02. S-44-114	EACH	2.000	2.000
0104	532.5420	Truss Full Span 2-Chord Type II (structure) 01. S-44-113	EACH	1.000	1.000
0106	532.5420	Truss Full Span 2-Chord Type II (structure) 02. S-44-114	EACH	1.000	1.000

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Line	Item	Item Description	Unit	Total	Qty
0108	601.0405	Concrete Curb & Gutter 18-Inch Type A	LF	340.000	340.000
0110	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	1,170.000	1,170.000
0112	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	655.000	655.000
0114	601.0555	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type A	LF	1,601.000	1,601.000
0116	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	2,516.000	2,516.000
0118	601.0580	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type R	LF	428.000	428.000
0122	601.0600	Concrete Curb Pedestrian	LF	394.000	394.000
0124	602.0405	Concrete Sidewalk 4-Inch	SF	1,569.000	1,569.000
0126	602.0410	Concrete Sidewalk 5-Inch	SF	18,009.000	18,009.000
0128	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	120.000	120.000
0130	606.0200	Riprap Medium	CY	172.000	172.000
0132	606.0300	Riprap Heavy	CY	54.000	54.000
0134	606.0400	Riprap Extra-Heavy	CY	358.000	358.000
0136	608.0315	Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	LF	405.000	405.000
0138	611.0624	Inlet Covers Type H	EACH	4.000	4.000
0140	611.0627	Inlet Covers Type HM	EACH	1.000	1.000
0142	611.0642	Inlet Covers Type MS	EACH	5.000	5.000
0144	611.0652	Inlet Covers Type T	EACH	2.000	2.000
0148	611.3004	Inlets 4-FT Diameter	EACH	7.000	7.000
0152	611.3901	Inlets Median 1 Grate	EACH	3.000	3.000
0154	611.3902	Inlets Median 2 Grate	EACH	1.000	1.000
0156	614.2300	MGS Guardrail 3	LF	1,163.000	1,163.000
0158	614.2500	MGS Thrie Beam Transition	LF	158.000	158.000
0160	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000
0162	614.2620	MGS Guardrail Terminal Type 2	EACH	4.000	4.000
0164	616.0700.S	Fence Safety	LF	2,000.000	2,000.000
0166	618.0100	Maintenance And Repair of Haul Roads (project) 01. 1146-75-76	EACH	1.000	1.000
0170	619.1000	Mobilization	EACH	0.500	0.500
0172	620.0300	Concrete Median Sloped Nose	SF	442.000	442.000
0174	624.0100	Water	MGAL	648.000	648.000
0176	625.0500	Salvaged Topsoil	SY	69,748.000	69,748.000
0178	627.0200	Mulching	SY	82,406.000	82,406.000
0180	628.1504	Silt Fence	LF	10,510.000	10,510.000
0182	628.1520	Silt Fence Maintenance	LF	2,628.000	2,628.000
0184	628.1905	Mobilizations Erosion Control	EACH	7.000	7.000
0186	628.1910	Mobilizations Emergency Erosion Control	EACH	5.000	5.000
0188	628.2004	Erosion Mat Class I Type B	SY	31,323.000	31,323.000
0190	628.6005	Turbidity Barriers	SY	84.000	84.000
0192	628.7005	Inlet Protection Type A	EACH	11.000	11.000
0194	628.7015	Inlet Protection Type C	EACH	7.000	7.000
0196	628.7504	Temporary Ditch Checks	LF	320.000	320.000
0198	628.7555	Culvert Pipe Checks	EACH	75.000	75.000
0200	628.7560	Tracking Pads	EACH	2.000	2.000
0202	629.0210	Fertilizer Type B	CWT	44.000	44.000
0204	630.0110	Seeding Mixture No. 10	LB	408.000	408.000
0206	630.0120	Seeding Mixture No. 20	LB	1,528.000	1,528.000
0208	630.0140	Seeding Mixture No. 40	LB	118.000	118.000
0210	630.0500	Seed Water	MGAL	1,567.000	1,567.000
0212	632.0101	Trees (species) (size) (root) 01. Crabapple, 'Prairie', B&B, 2-Inch Cal (PF)	EACH	6.000	6.000

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Line	Item	Item Description	Unit	Total	Qty
0214	632.0201	Shrubs (species) (size) (root) 01. Dogwood, Redosier CG#3	EACH	30.000	30.000
0216	632.0201	Shrubs (species) (size) (root) 02. Juniper Maney, 15" SPD, CG	EACH	15.000	15.000
0218	632.9101	Landscape Planting Surveillance and Care Cycles	EACH	14.000	14.000
0220	633.5200	Markers Culvert End	EACH	12.000	12.000
0222	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	20.000	20.000
0224	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	18.000	18.000
0226	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	13.000	13.000
0228	637.1220	Signs Type I Reflective SH	SF	336.500	336.500
0230	637.2210	Signs Type II Reflective H	SF	389.120	389.120
0232	637.2230	Signs Type II Reflective F	SF	88.500	88.500
0234	638.2602	Removing Signs Type II	EACH	16.000	16.000
0236	638.3000	Removing Small Sign Supports	EACH	18.000	18.000
0238	642.5401	Field Office Type D	EACH	0.500	0.500
0240	643.0300	Traffic Control Drums	DAY	2,622.000	2,622.000
0242	643.0420	Traffic Control Barricades Type III	DAY	280.000	280.000
0244	643.0705	Traffic Control Warning Lights Type A	DAY	280.000	280.000
0246	643.0715	Traffic Control Warning Lights Type C	DAY	1,050.000	1,050.000
0248	643.0900	Traffic Control Signs	DAY	490.000	490.000
0250	643.1050	Traffic Control Signs PCMS	DAY	40.000	40.000
0252	643.5000	Traffic Control	EACH	0.500	0.500
0254	645.0105	Geotextile Type C	SY	612.000	612.000
0256	645.0120	Geotextile Type HR	SY	832.000	832.000
0258	646.1020	Marking Line Epoxy 4-Inch	LF	4,940.000	4,940.000
0260	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	11,624.000	11,624.000
0262	646.1545	Marking Line Grooved Wet Ref Contrast Epoxy 4-Inch	LF	835.000	835.000
0264	646.3020	Marking Line Epoxy 8-Inch	LF	250.000	250.000
0266	646.3040	Marking Line Grooved Wet Ref Epoxy 8-Inch	LF	840.000	840.000
0268	646.5020	Marking Arrow Epoxy	EACH	16.000	16.000
0270	646.5120	Marking Word Epoxy	EACH	7.000	7.000
0272	646.6320	Marking Dotted Extension Epoxy 18-Inch	LF	159.000	159.000
0274	646.7120	Marking Diagonal Epoxy 12-Inch	LF	290.000	290.000
0276	646.8220	Marking Island Nose Epoxy	EACH	3.000	3.000
0278	650.4000	Construction Staking Storm Sewer	EACH	11.000	11.000
0280	650.4500	Construction Staking Subgrade	LF	8,202.000	8,202.000
0282	650.5000	Construction Staking Base	LF	7,077.000	7,077.000
0284	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	1,605.000	1,605.000
0286	650.6501	Construction Staking Structure Layout (structure) 06. C-44-126	EACH	1.000	1.000
0288	650.6501	Construction Staking Structure Layout (structure) 07. C-44-124	EACH	1.000	1.000
0290	650.7000	Construction Staking Concrete Pavement	LF	4,107.000	4,107.000
0292	650.8501	Construction Staking Electrical Installations (project) 09. 1146-75-76	EACH	1.000	1.000
0294	650.9500	Construction Staking Sidewalk (project) 01. 1146-75-76	EACH	1.000	1.000
0296	650.9911	Construction Staking Supplemental Control (project) 01. 1146-75-76	EACH	1.000	1.000
0300	650.9920	Construction Staking Slope Stakes	LF	11,184.000	11,184.000
0302	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	1,005.000	1,005.000
0304	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	20.000	20.000
0306	653.0164	Pull Boxes Non-Conductive 24x42-Inch	EACH	7.000	7.000
0308	654.0105	Concrete Bases Type 5	EACH	7.000	7.000
0310	654.0220	Concrete Control Cabinet Bases Type 10	EACH	1.000	1.000
0312	655.0610	Electrical Wire Lighting 12 AWG	LF	1,050.000	1,050.000

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Line	Item	Item Description	Unit	Total	Qty
0314	655.0615	Electrical Wire Lighting 10 AWG	LF	4,355.000	4,355.000
0316	656.0201	Electrical Service Meter Breaker Pedestal (location) 11. CTH T RAB	EACH	1.000	1.000
0318	690.0150	Sawing Asphalt	LF	732.000	732.000
0320	715.0502	Incentive Strength Concrete Structures	DOL	1,230.000	1,230.000
0322	715.0715	Incentive Flexural Strength Concrete Pavement	DOL	4,634.000	4,634.000
0324	740.0440	Incentive IRI Ride	DOL	2,273.000	2,273.000
0326	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,400.000	2,400.000
0328	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	2,100.000	2,100.000
0330	SPV.0035	Special 01. Roadway Embankment	CY	191,586.000	191,586.000
0332	SPV.0060	Special 01. Temporary Bypass Channel, C-44-0126 - C-44-0124	EACH	1.000	1.000
0334	SPV.0060	Special 05. Transport and Install Transformer Base Breakaway 11.5" Bolt Circle	EACH	12.000	12.000
0336	SPV.0060	Special 06. Transport and Install Poles Type 5 Aluminum	EACH	12.000	12.000
0338	SPV.0060	Special 07. Transport and Install Luminaire Arms Truss Type 4.5" Clamp 12-FT	EACH	12.000	12.000
0340	SPV.0060	Special 08. Transport and Install Luminaires Utility LED-B	EACH	12.000	12.000
0342	SPV.0085	Special 01. Low Maintenance Seed Mix	LB	43.000	43.000
0344	SPV.0195	Special 02. Shot Rock	TON	5,525.000	5,525.000

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

3

Grubbing Summary

201.0205
Grubbing

Station	to	Station	Location	STA.	Remarks
245+10	--	251+84	STH 15 WB	7	
255+10	--	255+55	STH 15 EB + WB	2	
267+00	--	273+00	STH 15 EB + WB	12	
267+40	--	272+54	STH 15 WB	6	
269+00	--	269+50	STH 15 EB	1	
271+75	--	272+10	STH 15 EB	2	
52+80	--	53+20	OLD STH 15 WEST	2	
57+50	--	59+50	OLD STH 15 WEST	3	
65+05	--	--	OLD STH 15 WEST	1	RT
68+75	--	--	OLD STH 15 WEST	1	RT
2008+00	--	2010+00	STH 15 Obliteration	2	RT
			Total	39	

Removing Old Culverts Summary

Station	Location	203.0100 Removing Small Pipe Culverts Each	204.0180 Removing Delineators and Markers Each	Description	Remarks
7+70	Gaigg Dwy	1		18" by 32' CPCM	LT/RT
8+30	Sambs Dwy	1		18" by 28' CPCM	RT
57+90	OLD STH 15 West	1	1	18" by 32' CPCM	LT
66+90	OLD STH 15 West	1		18" by 32' CMP	LT
210+00	Temp Connection EB	1	1	18" by 75' CPCM	RT
2009+75	STH 15 Obliteration	1		18" by 32' CPCM	LT
	Total	6	2		

Removing Curb and Gutter

204.0150

Station	to	Station	Location	L.F.	Remark
79+20	--	79+76	Givens Road West	157	Intersection
90+25	--	90+86	Givens Road East	160	Intersection
			Total	317	

Removing Guardrail

204.0165

Station	to	Station	Location	L.F.	Remark
2009+67	--	2013+09	STH 15 Obliteration	600	
			Total	600	

Obliterating Old Road

214.0100

Station	to	Station	Location	STA	Remarks
2003+00	--	2014+00	STH 15 Obliteration	11.0	
			Total	11.0	

Asphaltic Flumes

465.0315

Station	Side	Location	SY	Remarks
262+00	LT	STH 15 EB	14.6	
262+00	RT	STH 15 EB	47.5	
262+00	RT	STH 15 WB	14.6	
264+35	LT	STH 15 EB	13	
264+35	RT	STH 15 EB	28.2	
265+36	LT	STH 15 WB	36.7	
269+87	LT	STH 15 WB	59.4	
270+19	RT	STH 15 EB	38	
271+20	LT	STH 15 EB	12	
262+00	RT	STH 15 WB	12	
273+64	LT	STH 15 WB	43	
50+00	RT	Old 15 West EB	25	
52+00	LT	Old 15 West WB	25	
79+66	LT	Givens Road West	9	
79+73	LT	Givens Road West	9	
91+14	LT	Givens Road East	9	
90+32	RT	Givens Road East	9	
		Total	405	

Rumble Strips

Station	to	Station	Location	465.0400 Asphaltic Shoulder Rumble Stips L.F.	416.1110 Concrete Shoulder Rumble Strips L.F.	Remarks
256+00	--	262+09	STH 15 EB + WB		2,436	WB Median starts at 256+41
273+65	--	275+00	STH 15 WB		135	Outside Shoulder
273+65	--	275+00	STH 15 WB	135		Median Shoulder
273+65	--	275+00	STH 15 EB	135		Median Shoulder
273+65	--	275+00	STH 15 EB		135	Outside Shoulder
			Total	270	2,706	

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

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Concrete Summary

Station	to	Station	Location	405.0100 Coloring Concrete Red C.Y.	415.0090 Concrete Pavement 9-Inch S.Y.	416.0512 Concrete Roundabout Truck Apron 12-Inch S.Y.	602.0405 Concrete Sidewalk 4-Inch S.F.	602.0410 Concrete Sidewalk 5-Inch S.F.	602.0515 Curb Ramp Detectable Warning Field Natural Patina S.F.	Remarks
256+00	--	266+60	STH 15 EB		3064					
255+77	--	266+74	STH 15 WB		3166					
265+46	--	266+51	STH 15 EB	64			487	4125		Splitter Island
266+27	--	266+37	STH 15 WB						20	Splitter Island
266+28	--	266+38	STH 15 EB						20	Splitter Island
10+00	--	14+27	CTH T RAB	153	1408	457				Truck Apron - Colored
268+95	--	270+15	STH 15 EB	75			542	4841		Splitter Island
268+80	--	275+00	STH 15 EB		2912					
268+96	--	275+00	STH 15 WB		2340					
269+11	--	269+21	STH 15 WB						20	Splitter Island
269+20	--	269+30	STH 15 EB						20	Splitter Island
50+00	--	50+41	Old STH 15 West EB		55					
50+37	--	50+70	Old STH 15 West WB		43					
50+12	--	52+31	Old STH 15 West EB	109			540	7036		Splitter Island
50+23	--	50+33	Old STH 15 West WB						20	Splitter Island
50+31	--	50+41	Old STH 15 West EB						20	Splitter Island
52+91	--	55+80	Old STH 15 West EB	31				2007		Splitter Island
			Total	432	12,988	457	1,569	18,009	120	

Asphalt Summary

Station	to	Station	Location	455.0605 Tack Coat GAL	460.5223 HMA Pavement 3 LT 58-28 S TON	460.5224 HMA Pavement 4 LT 58-28 S TON	465.0120 Asphaltic Surface Driveway and Field Entrances TON	465.0125 Asphaltic Surface Temporary TON	Remarks
256+00	--	266+55	STH 15 EB	53		213			
255+77	--	266+68	STH 15 WB	55		220			
268+95	--	275+00	STH 15 EB	30		202			
268+96	--	275+00	STH 15 WB	30		163			
50+41	--	53+27	Old STH 15 West EB	19	71.2	43.8			
50+70	--	56+24	Old STH 15 West WB	37	138.0	85.0			
53+27	--	55+69	Old STH 15 West EB	24	90.4	55.6			
55+69	--	57+03	Old STH 15 West EB	36	133.1	81.9			
57+03	--	60+41	Old STH 15 West EB	86	323.1	198.9			
60+41	--	61+87	Old STH 15 West EB	36	133.1	81.9			
61+87	--	69+50	Old STH 15 West EB	144	539.2	331.8			
78+41	--	79+76	Givens Road West	32	78.8	61.3			
90+32	--	91+88	Givens Road East	32	88.3	68.7			
200+00	--	201+75	Temp Connection WB	10				56	
201+75	--	205+00	Temp Connection WB	76				436	
205+00	--	210+65	Temp Connection EB	78				451	
205+00	--	210+67	Temp Connection WB	79				453	
78+60			Givens Road West RT	10			42		Joann Sambs Dwy
			Total	867	1,595	1,807	42	1,396	

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

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Concrete Curb and Gutter

Station	to	Station	Location	601.0405 Concrete Curb and Gutter 18-Inch Type A L.F.	601.0409 Concrete Curb and Gutter 30-Inch Type A L.F.	601.0411 Concrete Curb and Gutter 30-inch Type D L.F.	601.0555 Concrete Curb and Gutter 6-Inch Sloped 36-Inch Type A L.F.	601.0557 Concrete Curb and Gutter 6-Inch Sloped 36-Inch Type D L.F.	601.0580 Concrete Curb and Gutter 4-Inch Sloped 36-Inch Type R L.F.	601.0600 Concrete Curb Pedestrian L.F.	650.5500 Construction Staking Curb Gutter and Curb & Gutter L.F.	Remarks
262+09	--	264+39	STH 15 EB				230	230				
262+12	--	265+39	STH 15 WB				327	327				
264+39	--	266+51	STH 15 EB		212	212						
265+39	--	266+59	STH 15 WB		120	120				140		
10+00	--	14+27	CTH T RAB	340	515				428			Central Island
268+95	--	270+02	STH 15 EB		107	107				140		
269+06	--	271+22	STH 15 WB		216	216						
270+02	--	273+65	STH 15 EB				363	363				
271+22	--	273+65	STH 15 WB				243	243				
50+12	--	50+41	OLD STH 15 West EB				128					
50+45	--	50+70	OLD STH 15 West WB				58					
50+41	--	51+10	OLD STH 15 West EB					138		114	138	
50+70	--	51+96	OLD STH 15 West WB				252				252	
51+10	--	55+87	OLD STH 15 West EB					464			464	
51+96	--	55+90	OLD STH 15 West WB					394			394	
79+03	--	79+77	Givens Road West					174			174	
90+31	--	91+15	Givens Road East					183			183	
			Total	340	1,170	655	1,601	2,516	428	394	1,605	

Traffic Control

Location	643.0300 Traffic Control Drums Each	Days	643.0420 Traffic Control Barricades Type III Each	Days	643.0705 Traffic Control Warning Lights Type A Each	Days	643.0715 Traffic Control Warning Lights Type C Each	Days	643.0900 Traffic Control Signs Each	Days	643.1050 Traffic Control Signs PCMS Each	Days
Stage 1 - Approx. 12 Weeks	30	1,470										
Stage 2 - Approx. 8 Weeks	16	784	4	224	4	224	15	840	7	392	2	40
UNDISTRIBUTED		368		56		56		210		98		
Total		2,622		280		280		1050		490		40

Sawing Asphalt

690.0150

Station	to	Station	Location	L.F.	Remarks
69+50.	--	--	Old STH 15 West	30	
91+87.87	--	--	Givens Road East	20	
201+43.7	--	207+45.75	Temp Connection EB	658	
78+41.26	--	--	Givens Road West	24	
11+32.16	--	--	Joann Sambs Dwy	16	Givens Rd West
			Total	732	

Concrete Median Sloped Nose

620.0300

Station	Location	S.F.	Remarks
266+51	STH 15 EB	21	
266+59	STH 15 WB	40	
268+95	STH 15 EB	40	
269+06	STH 15 WB	21	
50+12	Old STH 15 West EB	40	
50+45	Old STH 15 West WB	21	
52+31	Old STH 15 West EB	77	Median Opening - North
52+91	Old STH 15 West EB	91	Median Opening - South
55+80	Old STH 15 West EB	91	
	Total	442	

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

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Construction Staking Summary

Station	to	Station	Location	650.4000 Construction Staking Storm Sewer Each	650.4500 Construction Staking Subgrade L.F.	650.5000 Construction Staking Base L.F.	650.7000 Construction Staking Concrete Pavment L.F.	650.8501 Construction Staking Electrical Installations (Project) Each	650.9500 Construction Staking Sidewalk (Project) Each	650.9920 Construction Staking Slope Stakes L.F.	Remarks
12+56	--	--	CTH T RAB	1							
12+90	--	--	CTH T RAB	2							
13+00	--	--	CTH T RAB	1							
13+31	--	--	CTH T RAB	1							
51+00	--	--	Old 15 West EB	2							
52+93	--	--	Old 15 West EB	1							
53+00	--	--	Old 15 West EB	1							
268+92	--	--	STH 15 EB	2							
256+00	--	266+60	STH 15 EB		1,060		1,060			1,060	
255+77	--	266+74	STH 15 WB		1,097		1,097			1,097	
265+46	--	266+51	STH 15 EB		105		105			105	
10+00	--	14+27	CTH T RAB		427		427			427	
268+95	--	270+15	STH 15 EB		120		120			120	
268+80	--	275+00	STH 15 EB		620		620			620	
268+96	--	275+00	STH 15 WB		604		604			604	
50+00	--	50+41	Old STH 15 West EB		41		41			41	
50+37	--	50+70	Old STH 15 West WB		33		33			33	
50+41	--	53+27	Old STH 15 West EB		286	286				286	
50+70	--	56+24	Old STH 15 West WB		554	554				554	
53+27	--	55+69	Old STH 15 West EB		242	242				242	
55+69	--	57+03	Old STH 15 West EB		134	134				134	
57+03	--	60+41	Old STH 15 West EB		338	338				338	
60+41	--	61+87	Old STH 15 West EB		146	146				146	
61+87	--	69+50	Old STH 15 West EB		763	763				763	
78+41	--	79+76	Givens Road West			135				135	
90+32	--	91+88	Givens Road East			156				156	
200+00	--	201+75	Temp Connection WB		175	175				175	
201+75	--	205+00	Temp Connection WB		325	325				325	
205+00	--	210+65	Temp Connection EB		565	565				565	
205+00	--	210+67	Temp Connection WB		567	567				567	
18+89	--	28+71	CTH M			982				982	
11+00	--	26+77	CTH MM			1,577				1,577	
11+30	--	12+62	N. Crest St.			132				132	
			Total	11	8,202	7,077	4,107	1	1	11,184	

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

Station	to	Station	Location	305.0110 Base Aggregate Dense 3/4-Inch Ton	305.0120 Base Aggregate Dense 1 1/4-Inch Ton	311.0110 Breaker Run Ton	312.0110 Selected Crush Material Ton	624.0100 Water Compaction Mgal	624.0100 Water Dust Control Mgal	SPV.0195.02 Shot Rock Ton	Remarks
256+00	--	266+60	STH 15 EB	97	2,580		2,887	56	22		
255+78	--	266+74	STH 15 WB	100	2,666		2,984	58	23		
10+00	--	14+27	CTH T RAB		669		1,107	18	7		
267+45	--	272+07	STH 15 WB				1,420				Pond Fill
268+80	--	278+88	STH 15 EB	83	2,439		2,744	53	21		
268+96	--	275+00	STH 15 WB	54	1,942		2,206	42	17		
205+00	--	210+62	Temp. Connection EB	119	1,740		911	28	11		
200+00	--	210+67	Temp. Connection WB	376	1,952		1,749	41	16		
50+00	--	69+50	Old 15 West EB	668	9,210		3,055	129	52		
50+37	--	56+24	Old 15 West WB	99	1,032		796	19	8		
78+41	--	79+76	Givens Road West	50	572			6	2		
90+32	--	91+88	Givens Road East	50	572			6	2		
259+25	--	--	STH 15 WB	233				2	1		Kevin Sambs Dwy
52+54	--	--	Old STH 15 West EB	194				2	1		Elizabeth Gaigg Dwy
75+00	--	--	Givens Rd West LT	205				2	1		Elizabeth Gaigg Temp. Dwy
78+00	--	--	Givens Rd West RT	50				1	0		JoAnn Sambs Temp. Dwy
78+60	--	--	Givens Rd West RT	61				1	0		JoAnn Sambs Dwy
			Pond Fill			1,666				5,525	
			Subtotal					463	185		
			Total	2,439	25,374	1,666	19,859	648		5,525	

Guardrail Summary

Station	to	Station	Location	614.2300 MGS Guardrail 3 L.F.	614.2500 MGS Thrie Beam Transition L.F.	614.2610 MGS Guardrail Terminal EAT Each	614.2620 MGS Guardrail Terminal EAT Type 2 Each	616.0700.S Fence Safety L.F.	Remarks
260+61.38	--	261+14.5	STH 15 EB			2			Includes RT and LT
261+14.5	--	262+39.5	STH 15 EB	250			2		Includes RT and LT
273+12.86	--	276+62.86	STH 15 WB	350			1		RT
276+62.86	--	277+02.23	STH 15 WB		39				RT
273+11.07	--	275+61.07	STH 15 WB	250			1		LT
275+61.07	--	276+00.44	STH 15 WB		39				LT
275+02.64	--	275+55.77	STH 15 EB			1			LT
275+55.77	--	277+30.77	STH 15 EB	175					LT
277+30.77	--	277+70.14	STH 15 EB		39				LT
276+41.92	--	276+95.05	STH 15 EB			1			RT
276+95.05	--	278+32.55	STH 15 EB	138					RT
278+32.55	--	278+71.92	STH 15 EB		39				RT
			Undistributed					2,000	
			Total	1,163	158	4	4	2,000	

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

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Temporary Erosion Control

Station	to	Station	Location	628.1504 Silt Fence LF	628.1520 Silt Fence Maintance LF	628.6005 Turbidity Barrier SY	628.7005 Inlet Protection Type A Each	628.7015 Inlet Protection Type C Each	628.7504 Temporary Ditch Checks LF	628.7555 Culvert Pipe Checks Each	628.7560 Tracking Pad Each	Remarks
200+00	--	210+67	Temp Connection WB	1,000	250							
207+00	--	--	Temp Connection WB				1					
256+13	--	--	STH 15 EB				1					
256+40	--	--	STH 15 EB							15		
262+50	--	--	STH 15 EB				1					
256+00	--	266+55	STH 15 EB	1,533	383				48			
255+77	--	266+68	STH 15 WB	1,167	292							
12+90	--	--	RAB CIRC. RDWY				1	1				
13+00	--	--	RAB CIRC. RDWY				1	1				
12+56	--	--	RAB CIRC. RDWY				1	1				
13+31	--	--	RAB CIRC. RDWY				1	1				
268+92	--	--	STH 15 EB				1	1				
271+50	--	--	STH 15 WB			67	1					Turbidity Barrier 150'x4'
266+55	--	278+88	STH 15 EB						48			
266+68	--	277+07	STH 15 WB	663	166							
51+00	--	--	Old STH 15 West EB				1	1				
52+93	--	--	Old STH 15 West EB				1	1				
50+41	--	69+50	Old STH 15 West EB	2,197	549				88			
50+70	--	56+24	Old STH 15 West WB	1,848	462				72			
75+86	--	--	Givens Road West							15		
78+02	--	--	Givens Road West							15		
79+45	--	--	Givens Road West							15		
--	--	--	Undistributed	2,102	526	17			64	15	2	
			Total	10,510	2,628	84	11	7	320	75	2	

Plant Data Summary

Station	to	Station	Location	Common Name	Scientific Name	Type	Size When Planted	Root Zone Mode	Min. Ball Size	Min. Hole Size (Dia.)	Wrapping Req'd	Fert. Units Req'd	Rodent Protection Req'd	Mulch Ring Diameter	632.0101 Trees Each	632.0201 Schubs Each	632.9101 Landscaping Planting Surveillance and Care Cycles Each	SPV.0085 Low Maintenance Seed Mix LB	Remarks
10+00	--	14+27	CTH T RAB	Crabapple, Prarie	Malus loensis	3T	8-FT	CG	44-Inch	58 - Inch	Yes	3	Yes	70 - Inch	6				
10+00	--	14+27	CTH T RAB	Juniper, Maney	Juniperus Chinensis 'Mane	3C	15 - Inch	CG	10 - Inch	34 - Inch	No	1	No	46-Inch		15	6		
10+00	--	14+27	CTH T RAB	Dogwood, Redosier	Cornus Sericea	2S	4-FT	CG	14-Inch	38-Inch	No	1	No	50-Inch		30	8		
10+00	--	14+27	CTH T RAB															43	
		Total													6	45	14	43	

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

				Permanent Erosion Control			
				606.0200	628.2004	645.0120	
				Riprap	Erosion Mat Class I	Geotextile Fabric	
				Medium	Type B	Type HR	
Station	to	Station	Location	CY	SY	SY	Remarks
256+13	--	--	STH 15 WB	7		14	LT
256+40	--	--	STH 15 WB	3		6	LT
262+00	--	--	STH 15 EB	6		12	RT
262+00	--	--	STH 15 EB	1		2	LT
262+00	--	--	STH 15 WB	2		4	RT
262+50	--	--	STH 15 WB	3		6	LT
264+35	--	--	STH 15 EB	4		8	RT
264+35	--	--	STH 15 EB	2		4	LT
264+35	--	--	STH 15 WB	2		4	RT
265+38	--	--	STH 15 EB	5		10	LT
256+00	--	266+55	STH 15 EB		2,277		
255+77	--	266+68	STH 15 WB		3,449		
268+92	--	--	STH 15 EB	3		6	RT
269+87	--	--	STH 15 WB	7		14	LT
270+18	--	--	STH 15 EB	5		10	RT
271+20	--	--	STH 15 EB	2		4	LT
271+20	--	--	STH 15 WB	3		6	RT
271+50	--	--	STH 15 WB	3		6	RT
273+64	--	--	STH 15 WB	5		10	LT
266+55	--	275+00	STH 15 EB		1,173		
266+68	--	275+00	STH 15 WB		9,197		
50+00	--	--	Old STH 15 West EB	1		2	
51+00	--	--	Old STH 15 West EB	3		6	
52+00	--	--	Old STH 15 West WB	3			
52+20	--	--	Old STH 15 West WB	80		160	C-44-126 - C-44-124
52+92	--	--	Old STH 15 West EB	3		6	
53+43	--	--	Old STH 15 West EB	9		18	C-44-126 Channel Realign.
63+20	--	--	Old STH 15 West EB	3		6	
50+41	--	69+50	Old STH 15 West EB		3,564		
50+70	--	56+24	Old STH 15 West WB		733		
79+45	--	--	Givens Road West	3		6	
79+66	--	--	Givens Road West	1		2	
78+41	--	79+76	Givens Road West		130	0	
90+72	--	--	Givens Road East	1		1	
91+14	--	--	Givens Road East	2		1	
90+32	--	91+88	Givens Road East		122	0	
207+00	--	--	Temporary Connection WB	1		2	
195+00	--	210+67.01	Temporary Connection WB		3,333		
200+00	--	210+62.61	Temporary Connection EB		2,185		
--	--	--	Undistributed	34	5,161	66	
			Total	172	31,323	332	

213.0100
Finishing Roadway
(Project)

Project	Each	Remarks
1146-75-76	1	
Total	1	

618.0100
Maintenance and Repair
Of Haul Roads

Project	Each	Remarks
1146-75-76	1	
Total	1	

619.1000

Mobilization

Project	Each	Remarks
1146-75-76	0.5	
Total	0.5	

642.5401
Field Office
Type D

Project	Each	Remarks
1146-75-76	0.5	
Total	0.5	

643.5000
Traffic Control
(Project)

Project	Each	Remarks
1146-75-76	0.5	
Total	0.5	

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

Pavement Marking Summary

Station	to	Station	Location	646.1020 Marking Line Epoxy 4-Inch White L.F.	646.1020 Marking Line Epoxy 4-Inch Yellow L.F.	646.1040 Marking Line Grooved Wet Ref Epoxy 4-Inch White L.F.	646.1040 Marking Line Grooved Wet Ref Epoxy 4-Inch Yellow L.F.	646.1545 Marking Line Grooved Wet Ref Epoxy 4-inch White L.F.	646.3020 Marking Line Epoxy 8-Inch White L.F.	646.3040 Marking Line Grooved Wet Ref Epoxy 8-inch L.F.	646.5020 Marking Arrow Epoxy Type 1 Each	646.5020 Marking Arrow Epoxy Type 2 Each	646.5020 Marking Arrow Epoxy Type 3 Each	646.5020 Marking Arrow Epoxy Type 3R Each	646.5120 Marking Words Epoxy Only Each	646.5120 Marking Words Epoxy Yield Each	646.6320 Marking Dotted Extension Epoxy 18-Inch L.F.	646.7120 Marking Diagonal Epoxy 12-Inch Yellow L.F.	646.8220 Marking Island Nose Epoxy Yellow Each
195+00	--	210+67.01	Temp Conn WB	1067	1567														49	
200+00	--	210+62.61	Temp Conn EB	1063	1063															
262+27	--	--	STH 15 EB								1			1						
265+42	--	--	STH 15 EB								1		1							
266+55	--	--	STH 15 EB													2				
256+00	--	266+60.	STH 15 EB			910	1,060	265		240										
255+78.	--	266+62.	STH 15 WB			1,000	1,084	270		164										
11+25.	--	--	CTH T RAB								1		1							
13+26.	--	--	CTH T RAB								2									
10+00	--	14+27	CTH T RAB														159			
269+00	--	--	STH 15 WB													2				
270+14	--	--	STH 15 WB								1			1						
268+95	--	275+00	STH 15 EB			547	605	150		186										
268+96	--	275+00	STH 15 WB			477	604	150		250										
273+32	--	--	STH 15 WB								1		1							
50+00	--	69+50	Old 15 West EB			1,723	1920		100			4			2					3
50+37	--	56+24	Old 15 West WB			1,694			150							1			241	
78+41	--	79+76	Givens Road West		180															
			Subtotal	2130	2810	6,351	5,273				7	4	3	2	2	5				
			Total	4,940		11,624		835	250	840	16				7		159	290		3

Seeding Summary

Station	to	Station	Location	625.0500 Salvaged Topsoil SY	627.0200 Mulching SY	629.0210 Fertilizer Type B CWT	630.0110 Seeding Mixture No. 10 LB	630.0120 Seeding Mixture No. 20 LB	630.0140 Seeding Mixture No. 40 LB	630.0500 Seed Water MGAL	Remarks
256+00	--	266+55	STH 15 EB	8,296	6,019	5.2	13	182	29	186	Use No. 40 in Spitter Island
255+77	--	266+68	STH 15 WB	8,556	5,107	5.4		231		192	
266+55	--	275+00	STH 15 EB	5,898	4,725	3.7	80	279	29	132	Use No. 40 in Spitter Island
266+68	--	275+00	STH 15 WB	9,197		5.8		280		207	
50+41	--	69+50	Old STH 15 West EB	15,111	11,547	9.5	204		36	339	
50+70	--	56+24	Old STH 15 West WB	2,222	1,489	1.4	30			50	
200+00	--	210+67	Temp Connection WB	3,333		2.1				75	
205+00	--	210+65	Temp Connection EB	2,185		1.4				49	
--	--	--	Borrow Pits	1,000	37,037	0.6		250		22	
--	--	--	Undistributed	13,950	16,481	8.8	82	306	24	313	
			Total	69,748	82,406	44	408	1,528	118	1,567	

Conduit Rigid Nonmetallic Schedule 40

LOCATION		652.0225	652.0235
STH 15 & OLD STH 15 WEST		2-Inch	3-Inch
FROM	TO	LF	LF
CB1	PB1		10
CB1	PB1		10
PB1	LB1	20	
PB1	PB2	110	
PB2	LB2	30	
PB2	PB3	115	
PB3	LB3	30	
PB3	PB4	140	
PB4	LB4	25	
PB4	PB5	90	
PB5	LB5	40	
PB5	PB6	125	
PB6	LB6	35	
PB6	PB7	110	
PB7	LB7	30	
PB7	PB1	105	
	TOTAL	1,005	20

Electrical Wire Lighting 10AWG

LOCATION		655.0615
STH 15 & OLD STH 15 WEST		Equipment
		Grounding
(240 VOLT SYSTEM)		Conductor
		(Green)
FROM	TO	LF
CB1	LB1	60
LB1	LB2	200
LB2	LB3	215
LB3	LB4	235
LB4	LB5	195
LB5	LB6	240
LB6	LB7	215
LB7	CB1	185
	TOTAL	1,545

Electrical Wire Lighting

			10AWG	12AWG	
LOCATION					655.0610
STH 15 & OLD STH 15 WEST			655.0615	655.0610	Equipment
			Ungrounded	Ungrounded	Grounding
(240 VOLT SYSTEM)			Conductor	Conductor	Conductor
			(see Circuit Color)	(Black)/(Red)	(Green)
Circuit	FROM	TO	LF	LF	LF
A	CB1	LB1	120		
(Black)	LB1	Luminaires		100	50
	LB1	LB2	400		
	LB2	Luminaires		100	50
B	CB1	LB3	630		
(Red)	LB3	Luminaires		100	50
	LB3	LB4	470		
	LB4	Luminaires		100	50
	LB4	LB5	390		
	LB5	Luminaires		100	50
C	CB1	LB7	370		
(Blue)	LB7	Luminaire		100	50
	LB7	LB6	430		
	LB6	Luminaires		100	50
		SUB-TOTALS	2,810	700	350
		TOTAL	2,810	1,050	

Concrete Bases

		654.0220
	654.0105	Control
	Type 5	Cabinet
		NER Type 10
LOCATION	EACH	EACH
STH 15 & OLD STH 15 WEST	7	1

Pull Boxes Non-Conductive

	653.0164
	24x42-Inch
LOCATION	EACH
STH 15 & OLD STH 15 WEST	7

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

Electric Service

	656.0201
	ELECTRICAL SERVICE
	METER BREAKER PEDESTAL
LOCATION	EACH
STH 15 & OLD STH 15 WEST	1

Lighting Summary

	SPV.0060.05	SPV.0060.06	SPV.0060.07	SPV.0060.08
	Transport and	Transport and	Transport and	Transport and
	Install Transformer	Install Poles	Install Luminaire Arms	Install Luminaires
	Bases Breakaway	Type 5	Truss Type 4.5-Inch	Utility LED-B
	11.5-Inch Bolt Circle	Aluminum	Clamp 12-FT	
LOCATION	EACH	EACH	EACH	EACH
STH 15 & OLD STH 15 WEST	12	12	12	12

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

3

Location	From / To Station	205.0100 Excavation Common, CY (1)		Available Material, CY (5)	205.0200 Excavation Rock, CY (7)	Fill, CY	Mass Ordinate, CY +/- (8)	SPV.0035.01 Roadway Embankment, CY (4)	Remarks:
		Cut (2)	EBS Excavation (3)						
STH 15 STA 256+00 to RAB	256+00/266+50	2,777	0	2,777	0	61,128	-67,521	61,128	
STH 15/CTH T RAB	10+00/14+27.25	18	0	18	0	28,296	-32,523	28,296	
RAB to 275+00	269+00/275+00	688	0	688	0	82,691	-82,004	82,691	
OLD STH 15 WEST	50+00/69+50	11,113	0	11,113	120	11,138	-1,543	11,138	
GIVENS ROAD WEST	78+41.31/79+32.41	59	0	59	0	383	-381	383	
GIVENS ROAD EAST	90+75.06/91+87.87	267	0	267	0	7	259	7	
WEST TEMPORARY CONNECTION	200+00/210+67.01	3,949	0	3,949	0	7,943	-5,186	7,943	
Totals, CY		18,870	0	18,870	120	191,586	-188,899	191,586	

3

Notes:
(1) Common Excavation is the sum of the Cut and EBS Excavation columns.

(4) Roadway Embankment does not include material used to fill Marsh Excavation
(5) Available Material = Cut - Salvaged/Unusuable Pavement Material

(7) Excavation Rock not included in Cut
(8) The Mass Ordinate is for informational purposes only as common excavation and roadway embankment are not balanced for quantity purposes and does not guarantee the quality of common excavation, or if it can be reused on site. EBS and Marsh Excavation NOT included in Mass Ordinate determination.

3

Culvert Pipe Reinforced Concrete - STH 15

ALL ITEMS CATEGORY 0010

Station	INLET Offset, FT	Elevation	Station	OUTLET Offset, FT	Elevation	Slope	Location	522.0118* CPRC Class III 18-Inch L.F.	522.0136 CPRC CLASS III 36-Inch L.F.	Remarks
207+00	25.4 RT	804.25	207+00	49.9 LT	804.00	0.33%	STH 15 WBC	76		
256+40	69.4 RT	802.30	256+07	127.3 LT	799.30	0.88%	STH 15 EB		200	Staged Constr.
256+13	35.9 RT	804.52	256+13	74.8 LT	800.31	3.80%	STH 15 WB	112		
262+50	33.3 RT	810.50	263+50	79.4 LT	801.00	8.43%	STH 15 WB	92		
271+50	31.3 RT	813.50	271+50	97.7 LT	800.50	0.1008	STH 15 WB	94		
							TOTAL	**374**	**200**	

Apron Endwalls For Culvert Pipe Reinforced Concrete - STH 15

ALL ITEMS CATEGORY 0010

Station	INLET Offset, FT	Elevation	Station	OUTLET Offset, FT	Elevation	Location	522.1018* AEW For CPRC 18-Inch Each	522.1036 AEW For CPRC 36-Inch Each	633.5200* Markers Culvert End Each	Remarks
207+00	25.4 RT	804.25	207+00	49.9 LT	804.00	STH 15 WBC	1		1	
256+40	69.4 RT	802.30	256+07	127.3 LT	799.30	STH 15 EB		2	2	
256+13	35.9 RT	804.52	256+13	74.8 LT	800.31	STH 15 WB	1		1	
262+50	33.3 RT	810.50	263+50	79.4 LT	801.00	STH 15 WB	1		1	
271+50	31.3 RT	813.50	271+50	97.7 LT	800.50	STH 15 WB	1		1	
						TOTAL	**4**	**2**	**6**	

3

Culvert Pipe Reinforced Concrete - Side Roads

ALL ITEMS CATEGORY 0010

Station	INLET Offset, FT	Elevation	Station	OUTLET Offset, FT	Elevation	Slope	Location	520.2018 Culvert Pipe Temporary 18-Inch	522.0118* CPRC Class III 18-Inch L.F.	522.0124 CPRC Class III 24-Inch L.F.	Remarks
64+17	N/A	N/A	+	47.0 LT	812.70	0.00%	OLD 15 WEST				PIPE NOT REQ'D
64+24	N/A	N/A	+	47.0 LT	813.00	0.00%	OLD 15 WEST				PIPE NOT REQ'D
74+86	26.5 LT	825.31	75+18	27.5 LT	824.48	2.61%	GIVENS RD	32			TEMP PE
78+02	27.7 RT	822.90	78+15	26.0 RT	822.82	0.54%	GIVENS RD	14			TEMP PE
78+54	28.2 RT	821.00	78+80	28.2 RT	820.00	3.60%	GIVENS RD		28		PE
79+45	47.8 RT	816.50	79+45	34.2 LT	815.50	1.22%	GIVENS RD			82	
							TOTAL	**46**	**28**	**82**	

Apron Endwalls For Culvert Pipe Reinforced Concrete - Side Roads

ALL ITEMS CATEGORY 0010

Station	INLET Offset, FT	Elevation	Station	OUTLET Offset, FT	Elevation	Locations	522.1018* AEW For CPRC 18-Inch Each	522.1024 AEW For CPRC 24-Inch Each	522.1030 AEW For CPRC 30-Inch Each	633.5200* Markers Culvet End Each
64+17	N/A	N/A	+	47.0 LT	812.70	OLD 15 WEST			1	
64+24	N/A	N/A	+	47.0 LT	813.00	OLD 15 WEST			1	
74+86	26.5 LT	825.31	75+18	27.2 LT	824.48	GIVENS RD	2			
78+02	27.7 RT	822.90	78+15	26.0 RT	822.82	GIVENS RD	2			
78+54	28.2 RT	821.00	78+80	28.2 RT	820.00	GIVENS RD	2			
79+45	47.8 RT	816.50	79+45	34.2 LT	815.50	GIVENS RD		2		2
						TOTAL	**6**	**2**	**2**	**2**

DRAINAGE ITEM NOTES:

1) STATIONS AND OFFSETS ARE TO THE CENTER OF STRUCTURE OR TO THE END OF PIPE WHERE THERE IS AN ENDWALL.
2) PIPE LENGTHS AND SLOPES ARE MEASURED TO THE CENTER OF STRUCTURE.
3) RIM ELEVATIONS ARE GIVEN AT THE FLANGE LINE FOR INLET GRATES OR THE CENTER OF THE MANHOLE COVER FOR MANHOLES. 4) STRUCTURE DEPTH = RIM ELEVATION - INVERT - CASTING HEIGHT - ADJUSTMENT + PIPE THICKNESS

ADJUSTMENT = 4" TYPICAL (NO ADJUSTMENT FOR INLETS MEDIAN 1 - 4 GRATE) CASTING HEIGHTS FOR INLET COVERS:

TYPES J AND C = 0.75' TYPE T = 0.58'

TYPES H AND HM = 0.50' TYPE MS = 0'

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

MEDIAN INLET SUMMARY

Station	Offset, FT	Location	611.3901 Inlet Median 1 Grate Each	611.3902 Inlet Median 2 Grate Each	611.0642 Inlet Cover* Type MS Each	Rim/Grate Elevation	Discharge Elevation	Structure Depth, FT	Remarks
207+00	25.4 RT	STH 15 WBC	1		1	808.16	804.25	4.12	
256+13	35.9 RT	STH 15 WB	1		1	808.98	804.52	4.67	
262+50	33.3 RT	STH 15 WB	1		1	814.61	810.50	4.32	
271+50	31.3 RT	STH 15 WB		1	2	817.00	813.50	3.71	
		TOTAL	**3**	**1**	**5**				

* PROVIDE NO SLOPE INLET COVERS FOR 1G-MS
PROVIDE TWO SLOPE INLET COVERS FOR 2G-MS

ALL ITEMS CATEGORY 0010

3

Storm Sewer Sturcture Summary

Structure Number	Station	Location	Offset, FT	611.0624 Inl. Cover Type H Each	611.0627 Inl. Cover Type HM Each	611.0652 Inl. Cover Type T Each	611.3004 Inlet 4-FT Each	Rim/Grate Elevation	Discharge Elevation	Structure Depth, FT	Remarks
20	12+90	RAB CIRC. RDWY	1.7 LT			1	1	816.98	810.97	5.29	
20.1	12+90	RAB CIRC. RDWY	74.7 RT					--	--	--	AEW
20.2	13+00	RAB CIRC. RDWY	1.7 LT			1	1	817.09	811.07	5.30	
20.3	12+56	RAB CIRC. RDWY	21.5 RT	1			1	817.34	811.92	4.78	
20.4	13+31	RAB CIRC. RDWY	31.5 RT	1			1	817.19	812.19	4.36	
21	51+00	OLD 15 EB	1.3 LT	1			1	816.62	811.64	4.34	
21.1	51+00	OLD 15 EB	60.2 RT					--	--	--	AEW
22	52+93	OLD 15 EB	1.8 LT		1		1	817.94	814.00	3.30	
22.1	53+00	OLD 15 EB	44.6 RT					--	--	--	AEW
23	268+92	STH 15 EB	1.8 LT	1			1	818.61	813.61	4.36	
23.1	268+92	STH 15 EB	44.6 RT					--	--	--	AEW
			TOTAL	**4**	**1**	**2**	**7**				

ALL ITEMS CATEGORY 0010

Storm Sewer Pipe Summary

From STR.	To STR.	Inlet Elevation	Discharge Elevation	Slope	522.1015 AEW FOR CPRC 15 - INCH Each	608.0315 SSPRC CLASS III 15 - INCH L.F.	633.5200 * MARKERS CULVERT END Each	Remarks
20	20.1	810.97	808.00	3.55%	1	84	1	
20.2	20	811.07	810.97	1.03%		10		
20.3	20	811.92	810.97	2.13%		45		
20.4	20.2	812.19	811.07	2.26%		50		
21	21.1	811.64	810.00	2.66%	1	62	1	
22	22.1	814.00	811.00	6.21%	1	48	1	
23	23.1	813.61	812.19	2.00%	1	106	1	
				TOTAL	**4**	**405**	**4**	

ALL ITEMS CATEGORY 0010

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

REMOVING TYPE II SIGNS AND REMOVING SMALL SIGN SUPPORTS

SIGN NO.	LOCATION	SIGN CODE	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
54	STH 15, W. OF CTH T/GIVENS RD	J1-1	1	1	
55	"	M1-94	1	2	
56	"	W14-3	1	1	
57	"	M1-94	1	1	
58	"	J4-1	1	1	
59	"	J13-1	1	1	
60	"	W1-7	1	1	
61	CTH T/GIVENS RD	R1-1	1	1	
62	"	J13-2	1	1	
63	STH 15, E. OF GIVENS RD	J13-1	1	1	
64	"	M1-94	1	1	
65	GIVENS RD	R1-1	1	1	
66	STH 15, E. OF GIVENS RD	J4-1	1	1	
67	"	J1-1	1	1	
68	"	W11-3	---	1	PART OF REMOVAL FOR SIGN #69
69	"	W57-51	1		MOUNTED BELOW SIGN #68
70	"	M1-94	1	2	
	PROJECT TOTALS		**16**	**18**	

PLAN SHEET PRODUCED
BY WisDOT - NE REGION

ERECTION OF TYPE II SIGNS AND SUPPORTS

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE H S.F.	637.2230 SIGNS TYPE II REFLECTIVE F S.F.	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	REMARKS
274	STH 15, W. OF CTH T/OLD STH 15 RAB	W2-6	48" X 48"		16.00			2	
275	"	W13-1	24" X 24"		4.00				15 MPH, MOUNT BELOW SIGN #274
276	"	W2-6	48" X 48"		16.00			2	
277	"	W13-1	24" X 24"		4.00				15 MPH, MOUNT BELOW SIGN #276
278	VACANT	---	---						
279	"	R4-3	36" X 48"	12.00			1		
280	"	D1-2	102" X 36"	25.50			2		DALE, HORTONVILLE, SEE SIGN DETAIL SHEET
281	STH 15, W. OF CTH T/OLD STH 15 RAB	R2-1	36" X 48"	12.00			1		55 MPH
282	"	R3-8G	36" X 30"	7.50					MOUNT TO SIGN BRIDGE S-44-113 LEFT COLUMN
283	"	R3-8G	36" X 30"	7.50					MOUNT TO SIGN BRIDGE S-44-113 RIGHT COLUMN
284	"	J4-2	72" X 54"	27.00			2		WEST STH 15, CTH T
285	"	R1-2	48" X 42"	7.00				1	
286	VACANT	---	---						
287	"	R1-2	48" X 42"	7.00				1	
288	VACANT	---	---						
289	CTH T/OLD STH 15 RAB	R6-1R	54" X 18"	6.75		2			
290	"	R6-4B	60" X 24"	10.00					MOUNT BELOW SIGN #289
291	"	D1-1	96" X 30"	20.00		2			CTH T, OLD HWY 15, SEE SIGN DETAIL SHEET
292	CTH T/OLD STH 15, S. OF STH 15 RAB	R1-2	36" X 31"	3.88				1	
293	"	R2-1	24" X 36"	6.00			1		55 MPH
294	"	J12-1	24" X 45"	7.50			1		CTH T, SEE PLAN SHEET
295	"	R4-7	24" X 30"	5.00		1			
296	"	R6-2L	24" X 30"	5.00		1			
297	"	J13-1	24" X 45"	7.50			1		CTH T, SEE PLAN SHEET
298	W. GIVENS RD	J13-1	24" X 45"	7.50			1		CTH T, SEE PLAN SHEET
299	"	R1-1	30" X 30"	5.18		1			
300	CTH T/OLD STH 15, S. OF STH 15 RAB	R4-7	24" X 30"	5.00		1			
300A	"	R6-2L	24" X 30"	5.00		1			
300B	"	J13-1	24" X 45"	7.50			1		CTH T, SEE PLAN SHEET
300C	"	J1-1	24" 39"	6.50			1		CTH T, SEE PLAN SHEET
301	"	R6-2L	24" X 30"	5.00		1			
302	E. GIVENS RD	R1-1	30" X 30"	5.18		1			
303	CTH T/OLD STH 15, S. OF STH 15 RAB	J1-1	24" X 39"	6.50		1			JCT STH 15
304	"	W2-6	30" X 30"		6.25				
305	"	W13-1	18" X 18"		2.25				
306	"	J3-3	72" X 57"	28.50			2		WEST STH 15, CTH T, EAST STH 15, SEE PLAN SHEET
307	"	R1-2	36" X 31"	3.88			1		
308	VACANT	---	---						
309	CTH T/OLD STH 15 RAB	R6-1R	54" X 18"	6.75		2			
310	"	R6-4B	60" X 24"	10.00					MOUNT BELOW SIGN #309
311	"	D1-1	42" X 30"	8.75		1			EAST STH 15, SEE SIGN DETAIL SHEET
312	"	D1-1	42" X 30"	8.75		1			WEST STH 15, SEE SIGN DETAIL SHEET
313	"	R6-1R	54" X 18"	6.75		2			
314	"	R6-4B	60" X 24"	10.00					MOUNT BELOW SIGN #313
315	STH 15, E. OF CTH T/OLD STH 15 RAB	R1-2	48" X 42"	7.00				1	
	PAGE SUBTOTALS			320.87	48.50	18	15	8	

PLAN SHEET PRODUCED
BY WisDOT - NE REGION

3

ERECTION OF TYPE II SIGNS AND SUPPORTS

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE H S.F.	637.2230 SIGNS TYPE II REFLECTIVE F S.F.	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	REMARKS
316	VACANT	---	---						
317	STH 15, E. OF CTH T/OLD STH 15 RAB	R1-2	48" X 42"	7.00				1	
318	VACANT	---	---						
319	"	J4-1	36" X 54"	13.50			1		EAST STH 15
320	"	R2-1	36" X 48"	12.00			1		55 MPH
321	STH 15, E. OF CTH T/OLD STH 15 RAB	R3-8GG	36" X 30"	7.50					MOUNT TO SIGN BRIDGE S-44-114 LEFT COLUMN
322	"	R3-8GG	36" X 30"	7.50					MOUNT TO SIGN BRIDGE S-44-114 RIGHT COLUMN
323	VACANT	---	---						
324	"	D1-1	60" X 21"	8.75		2			DALE, SEE SIGN DETAIL SHEET
325	"	R4-3	36" X 48"	12.00			1		
326	"	W2-6	48" X 48"		16.00			2	
327	"	W13-1	24" X 24"		4.00				15 MPH, MOUNT BELOW SIGN #326
328	"	W2-6	48" X 48"		16.00			2	
329	"	W13-1	24" X 24"		4.00				15 MPH, MOUNT BELOW SIGN #328
	PAGE SUBTOTALS			68.25	40.00	2	3	5	
	PROJECT TOTALS			**389.12**	**88.50**	**20**	**18**	**13**	

3

ERECTION OF TYPE I SIGNS AND SUPPORTS

SIGN NO.	LOCATION	SIGN CODE	W X H	637.1220 TYPE I REFLECTIVE SH SF	REMARKS
600	STH 15 EB APPROACH TO CTH T/OLD STH 15 RAB	E6-54A	96" X 90"	60.00	STA. 262+27, SIGN SUPPORT S-44-113. SEE SIGN DETAILS
601		E6-53	144" X 108"	108.00	SEE SIGN DETAILS
602	STH 15 WB APPROACH TO CTH T/OLD STH 15 RAB	E6-54A	120" X 90"	75.00	STA. 273+32, SIGN SUPPORT S-44-114. SEE SIGN DETAILS
603		E6-52	132" X 102"	93.50	SEE SIGN DETAILS

PLAN SHEET PRODUCED
BY WisDOT - NE REGION

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.18

PART OF THE NE1/4-SE1/4 AND PART OF THE SE1/4-SE1/4 OF SECTION 28, T22N, R15E, ALL IN THE TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

Document #: **2037962**
Date: **03-16-2015** Time: **08:28 AM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP , REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.18
AMENDMENT NO:

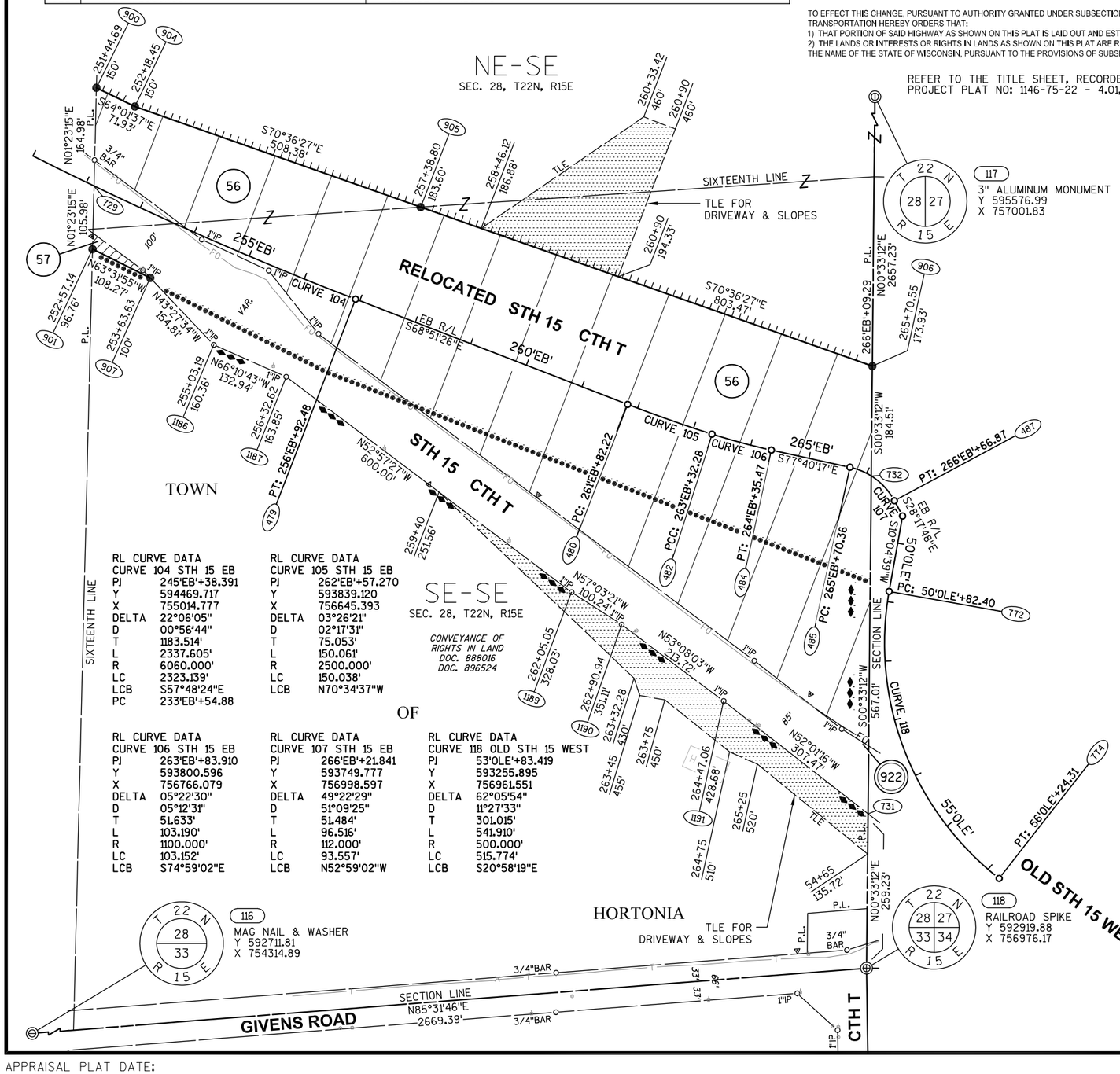
SCHEDULE OF LANDS & INTERESTS REQUIRED

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 ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
56	KEVIN SAMBS	FEE, ACCESS RIGHTS, TLE	11.302	0	11.302	0.921
57	ELIZABETH GAIGG	FEE, TLE	0.034	0	0.034	0.895

UTILITY INTERESTS REQUIRED:

922	AT&T WISCONSIN	RELEASE OF RIGHTS



RL CURVE DATA CURVE 104 STH 15 EB		RL CURVE DATA CURVE 105 STH 15 EB	
PI	245'EB'+38.391	PI	262'EB'+57.270
Y	594469.717	Y	593839.120
X	755014.777	X	756645.393
DELTA	22°06'05"	DELTA	03°26'21"
D	00°56'44"	D	02°17'31"
T	1183.514'	T	75.053'
L	2337.605'	L	150.061'
R	6060.000'	R	2500.000'
LC	2323.139'	LC	150.038'
LCB	S57°48'24"E	LCB	N70°34'37"W
PC	233'EB'+54.88		

RL CURVE DATA CURVE 106 STH 15 EB		RL CURVE DATA CURVE 107 STH 15 EB		RL CURVE DATA CURVE 118 OLD STH 15 WEST	
PI	263'EB'+83.910	PI	266'EB'+21.841	PI	53'OLE'+83.419
Y	593800.596	Y	593749.777	Y	593255.895
X	756766.079	X	756998.597	X	756961.551
DELTA	05°22'30"	DELTA	49°22'29"	DELTA	62°05'54"
D	05°12'31"	D	51°09'25"	D	11°27'33"
T	51.633'	T	51.484'	T	301.015'
L	103.190'	L	96.516'	L	541.910'
R	1100.000'	R	112.000'	R	500.000'
LC	103.152'	LC	93.557'	LC	515.774'
LCB	S74°59'02"E	LCB	N52°59'02"W	LCB	S20°58'19"E

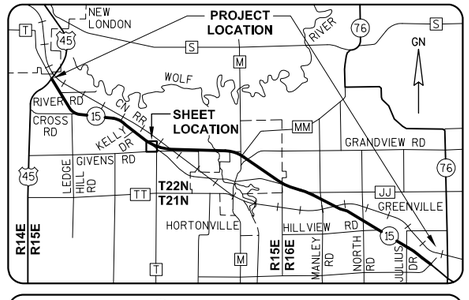
BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15 AND CTH T	TPP NO: 6430-06-00 - 4.12	2011

EXISTING ACCESS CONTROL: PROJECT 1146-1-22/F 07(19)

GN

SCALE, FEET
0' 100' 200'



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.18, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 11/06/2014 JAY W. PANETTI RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 3/11/2015 CURT VAN EREM REAL ESTATE SUPERVISOR

WISCONSIN JAY W. PANETTI S-2747 WAUPUN, WI LAND SURVEYOR

040418_15.DWG REVISED: 11/06/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.19

PART OF THE SW1/4-SW1/4 OF SECTION 27, T22N, R15E, TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

Document #: 2937963
Date: 03-16-2015 Time: 08:28 AM
Pages: 1 Fee: $25.00
County: OUTAGAMIE County State: WI

SARAH R VAN CAMP, REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.19
AMENDMENT NO:

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

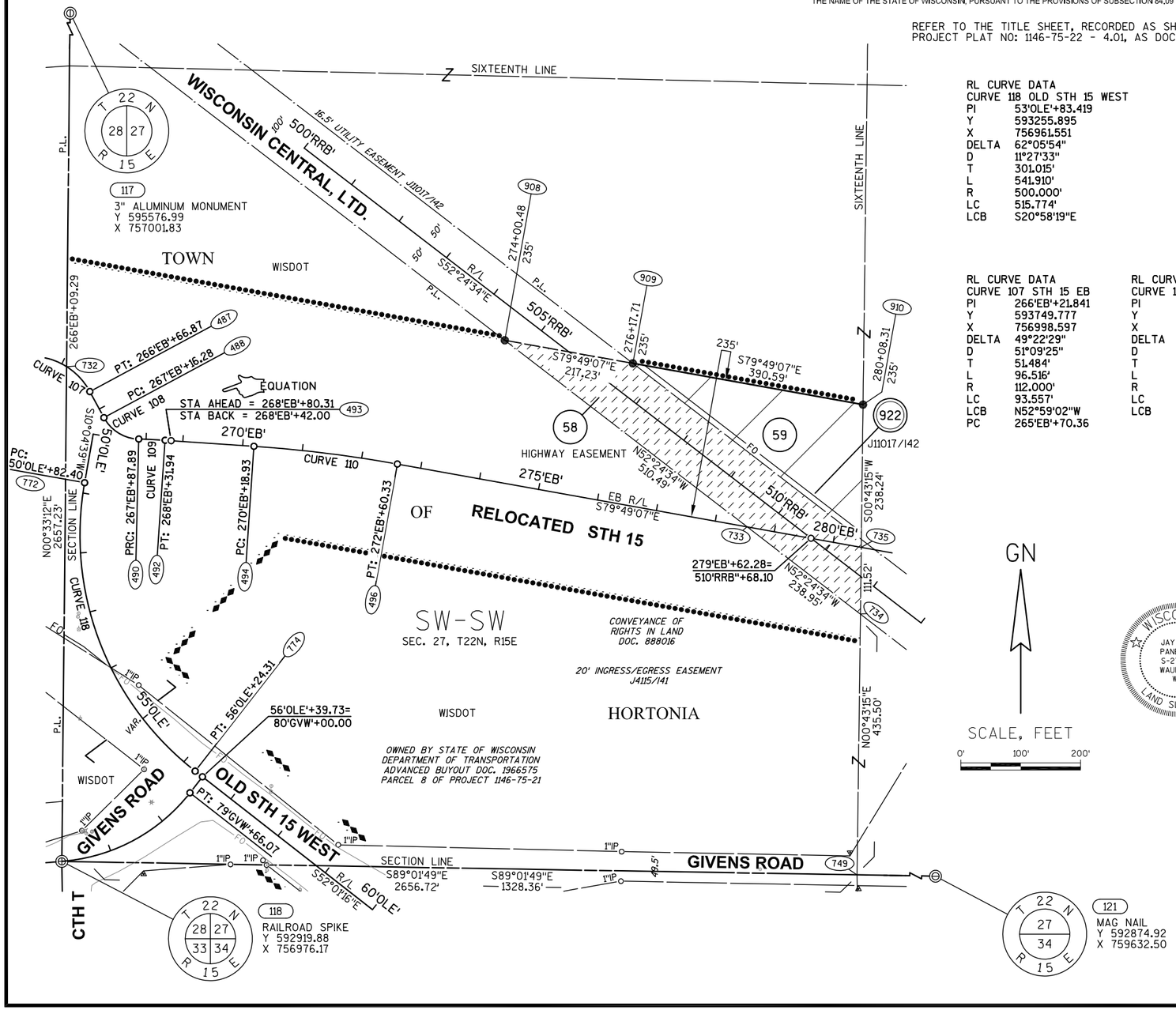
SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	H.E. ACRES PERM.	TLE ACRES TEMP.
58	WISCONSIN CENTRAL, LTD.	HIGHWAY EASEMENT	0	0	0	1.413	0
59	KEVIN SAMBS & JANE SAMBS	FEE	0.994	0	0.994	0	0

UTILITY INTERESTS REQUIRED:

922	AT&T WISCONSIN	RELEASE OF RIGHTS



RL CURVE DATA
CURVE 118 OLD STH 15 WEST
PI 53'OLE'+83.419
Y 593255.895
X 756961.551
DELTA 62°05'54"
D 11°27'33"
T 301.015'
L 541.910'
R 500.000'
LC 515.774'
LCB S20°58'19"E

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15 AND CTH T	TPP NO: 6430-06-00 - 4.11, 4.12	2011
GIVENS ROAD	TPP NO: 6430-06-00 - 4.11	2011
WISCONSIN CENTRAL, LTD. RAILROAD	V39/P328	1876

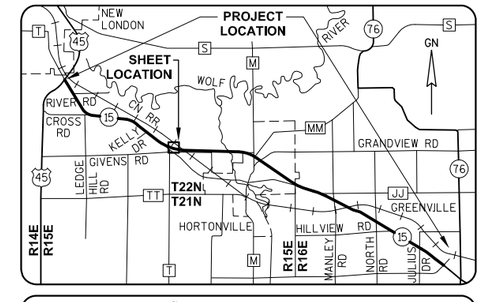
EXISTING ACCESS CONTROL: PROJECT 1146-1-22/F 07(19)

RL CURVE DATA
CURVE 107 STH 15 EB
PI 266'EB'+21.841
Y 593749.777
X 756998.597
DELTA 49°22'29"
D 51°09'25"
T 51.484'
L 96.516'
R 112.000'
LC 93.557'
LCB N52°59'02"W
PC 265'EB'+70.36

RL CURVE DATA
CURVE 108 STH 15 EB
PI 267'EB'+55.804
Y 593626.141
X 757065.159
DELTA 60°20'00"
D 84°15'31"
T 39.524'
L 71.605'
R 68.000'
LC 68.342'
LCB S58°27'48"E

RL CURVE DATA
CURVE 109 STH 15 EB
PI 268'EB'+09.918
Y 593624.669
X 757126.699
DELTA 02°31'28"
D 05°43'46"
T 22.033'
L 44.059'
R 1000.000'
LC 44.056'
LCB N87°22'04"W

RL CURVE DATA
CURVE 110 STH 15 EB
PI 271'EB'+39.750
Y 593604.869
X 757417.556
DELTA 06°17'13"
D 02°36'16"
T 120.822'
L 241.401'
R 2200.000'
LC 241.280'
LCB N82°57'43"W



JAY W. PANETTI S-2747 WAUPUN, WI
WISCONSIN LAND SURVEYOR

GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.19, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 11/06/2014 JAY W. PANETTI RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 3/11/2015 CURT VAN EREM REAL ESTATE SUPERVISOR

040419_15.DWG REVISED: 11/06/2014

APPRAISAL PLAT DATE:

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 ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
59	KEVIN SAMBS & JANE SAMBS	FEE	0.443	0	0.443	0
61	JUDITH M. RIESE, CHARLES M. SAMBS, DANIEL W. SAMBS, GREGORY J. SAMBS, JANICE M. FLENZ, MARY J. RIHA, BARBARA H. REARICK, KEVIN J. SAMBS, AND JANICE M. FLENZ AS TRUSTEE FOR THE 1994 IRREVOCABLE TRUST FOR THE BENEFIT OF JOANN M. SAMBS DATED JULY 14, 1994	FEE, TLE	0.353	0	0.353	0.066
62	THOMAS J. BOETTCHER	FEE	0.054	0	0.054	0

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.20 AMENDMENT NO: 1

AMENDS PARCEL 61 AND PARCEL 62 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.20, RECORDED AS DOCUMENT #2037964.

PART OF THE NW1/4-NW1/4 OF SECTION 34, T22N, R15E, TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

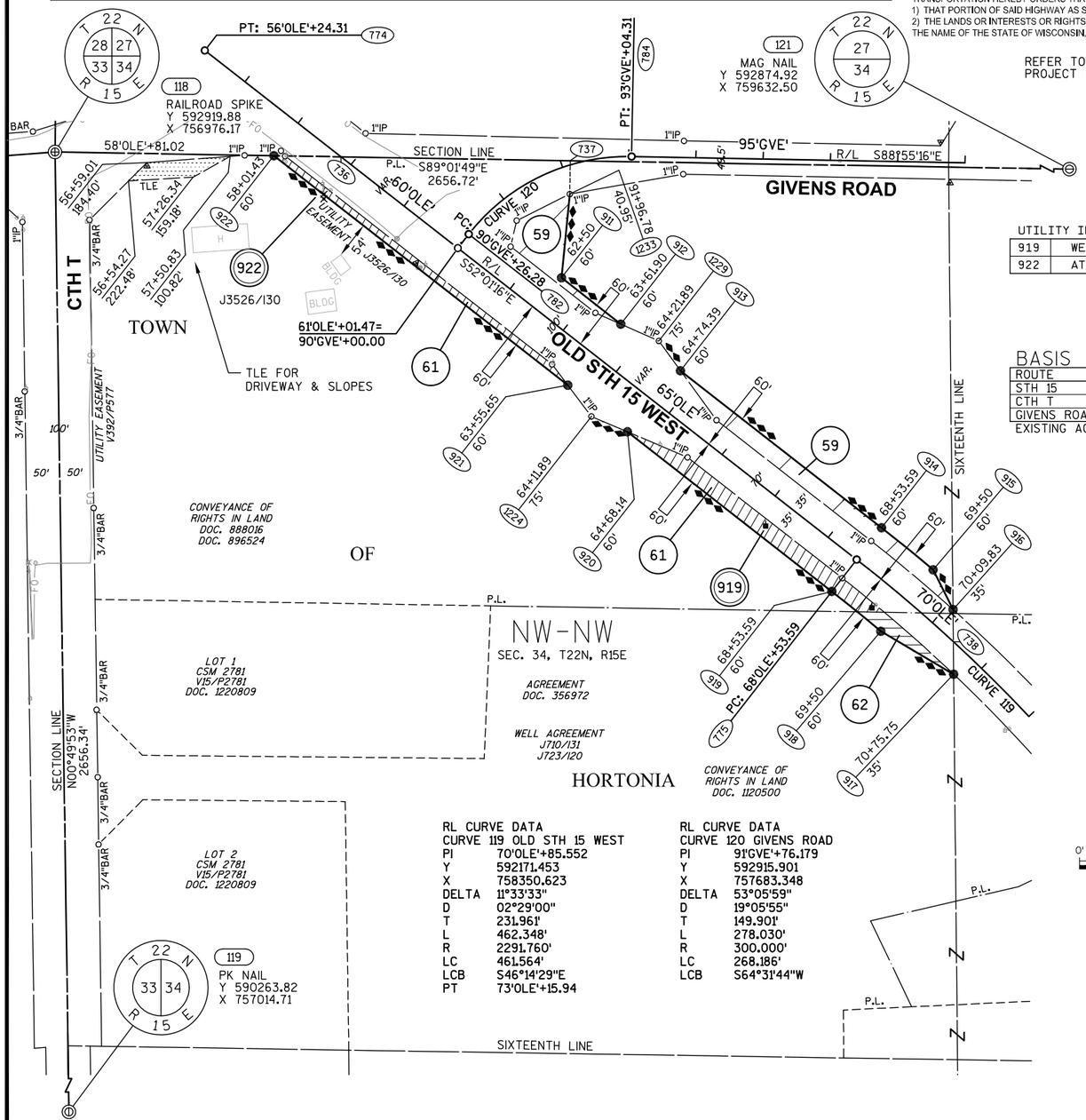
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1) THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

Document #: 2064107
Date: 01-21-2016 Time: 09:06 AM
Pages: 1 Fee: $25.00
County: OUTAGAMIE COUNTY State: WI

SARAH R VAN CAMP , REGISTER OF DEEDS
This document has been electronically recorded and returned to:
WiDotTeRegionGreenbay

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.20
AMENDMENT NO: 1

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.



UTILITY INTERESTS REQUIRED:

919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
922	AT&T WISCONSIN	RELEASE OF RIGHTS

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15	TPP NO: 6430-06-00 - 4.11	2011
CTH T	TPP NO: 6430-06-00 - 4.11	2011
GIVENS ROAD	TPP NO: 6430-06-00 - 4.11	2011

EXISTING ACCESS CONTROL: PROJECT 1146-1-22/F 07(19)

COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
118	922	S89°01'49"E	325.39'
922	736	S89°01'49"E	99.68'
736	737	S89°01'49"E	341.00'
737	1233	S00°58'11"W	49.54'
1233	911	S05°39'59"W	125.07'
911	912	S52°01'16"E	111.90'
912	1229	S66°03'26"E	61.84'
1229	913	S36°04'31"E	54.60'
913	914	S52°01'16"E	379.20'
*914	915	S50°48'57"E	98.93'
915	916	S26°35'59"E	65.99'
916	738	S00°34'29"E	47.75'
738	917	S00°34'29"E	48.40'
917	918	N59°30'41"W	125.64'
*918	919	N50°48'57"W	93.88'
919	920	N52°01'16"W	385.45'
920	1224	N66°57'08"W	58.22'
1224	921	N37°05'21"W	58.21'
921	922	N52°01'16"W	554.22'

*SEE CURVE TABLE

CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
914	915	2351.76'	98.93'	S50°48'57"E	98.93'
918	919	2231.76'	93.89'	N50°48'57"W	93.88'

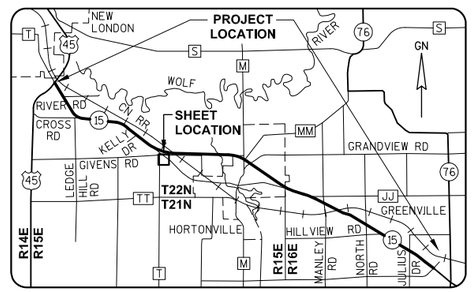
RL CURVE DATA
CURVE 119 OLD STH 15 WEST

PI	70'0LE'+85.552
Y	592171.453
X	758350.623
DELTA	11°33'33"
D	02°29'00"
T	231.961'
L	462.348'
R	2291.760'
LC	461.564'
LCB	S46°14'29"E
PT	73'0LE'+15.94

RL CURVE DATA
CURVE 120 GIVENS ROAD

PI	91'GVE'+76.179
Y	592915.901
X	757683.348
DELTA	53°05'59"
D	19°05'55"
T	149.901'
L	278.030'
R	300.000'
LC	268.186'
LCB	S64°31'44"W

WISCONSIN
JAY W. PANETTI
S-2747
WAUPUN, WI
LAND SURVEYOR



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.20, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 12/28/2015 JAY W. PANETTI PLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 1/19/2016 CURT VAN EREM REAL ESTATE SUPERVISOR

040420_15.DWG REVISED: 12/28/2015

APPRAISAL PLAT DATE:

SEE DRIVEWAY DETAILS
WETLAND LIMITS
SAMBS, KEVIN
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
EQUATION
STA AHEAD: 268'EB'+80.31
STA BACK: 268'EB'+42.00
FILL PONDS W/ BREAKER RUN TOP W/ MIN. 1' EMBANKMENT & SALVAGED TOPSOIL
WETLAND LIMITS
SAMBS, KEVIN & JANE
WETLAND LIMITS
SAMBS, KEVIN & JANE
N
R/W
P.L.
505'RRB'
AGRICULTURAL ACCESS PATH
R-44-17
B-44-290
256'WB'
258'WB'
260'WB'
262'WB'
264'WB'
266'WB'
STH 15
258'EB"
260'EB"
262'EB"
264'EB"
266'EB"
270'WB'
272'WB'
274'WB'
276'WB'
278'WB'
280'WB'
282'WB'
284'WB'
286
STH 15
270'EB'
272'EB'
274'EB'
276'EB'
278'EB'
280'EB'
282'EB'
284'EB'
286
280'RRB'
1-36" CPRC
2 AEW REQ'D
ASPHALTIC FLUME (TYP.)
OBLITERATE OLD ROAD
SEE DRIVEWAY DETAILS
OLD STH 15 WEST
C-44-124
SLOPE INTERCEPT (TYP.)
B-44-289
515'RRB'
BEGIN PROJECT 1146-75-76
STA 256'EB'+00
END PROJECT 1146-75-76
STA 275'EB'+00
STATE OF WIS DEPT OF TRANS
CHANNEL REALIGNMENT SEE CONSTRUCTION DETAIL
WETLAND LIMITS
C-44-126
GAIGG, ELIZABETH
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
STATE OF WISC DEPT TRANSPORTN
102'GVE'
100'GVE'
98'GVE'
CHANNEL REALIGNMENT SEE CONSTRUCTION DETAIL
NOTE:
DONE BY OTHERS

STA 266'EB'+60.63
EL 817.40
STA 268'EB'+80.31
EL 818.57
LOW POINT STA 271+17.58
LOW POINT EL 817.22
HIGH POINT STA 282+72.
HIGH POINT EL 822.33
'EB' R/L FINISHED PROFILE
0.55%
0.65%
-0.85%
0.50%
VPC STA 281+58.00
VPC EL 821.90
23' MIN. CLEARANCE
VCL = 1200.00
K = 345.081
256'EB'+39.52; 69.42' RT; EL=802.08
256'EB'+06.67; 127.34' LT; EL=800.31
199 LF OF CPRC CLASS III 36-INCH REQ'D
269'EB'+60.31; 83.66' RT; EL=800.15
269'EB'+95.04; 135.61' LT; EL=796.80
222 LF OF 72 x 60 inch Concrete Box Culvert REQ'D
VPC STA 269'EB'+60.00
VPC EL 817.89
VPI STA 270'EB'+85.00
VPI EL 816.82
VPT STA 272'EB'+10.00
VPT EL 817.45
'EB' R/L EXISTING PROFILE
VCL = 250.00
K = 184.842
EXISTING PROFILE ELEVATIONS AT 'EB' R/L
FINISHED PROFILE ELEVATIONS AT 'EB' R/L

| | | |

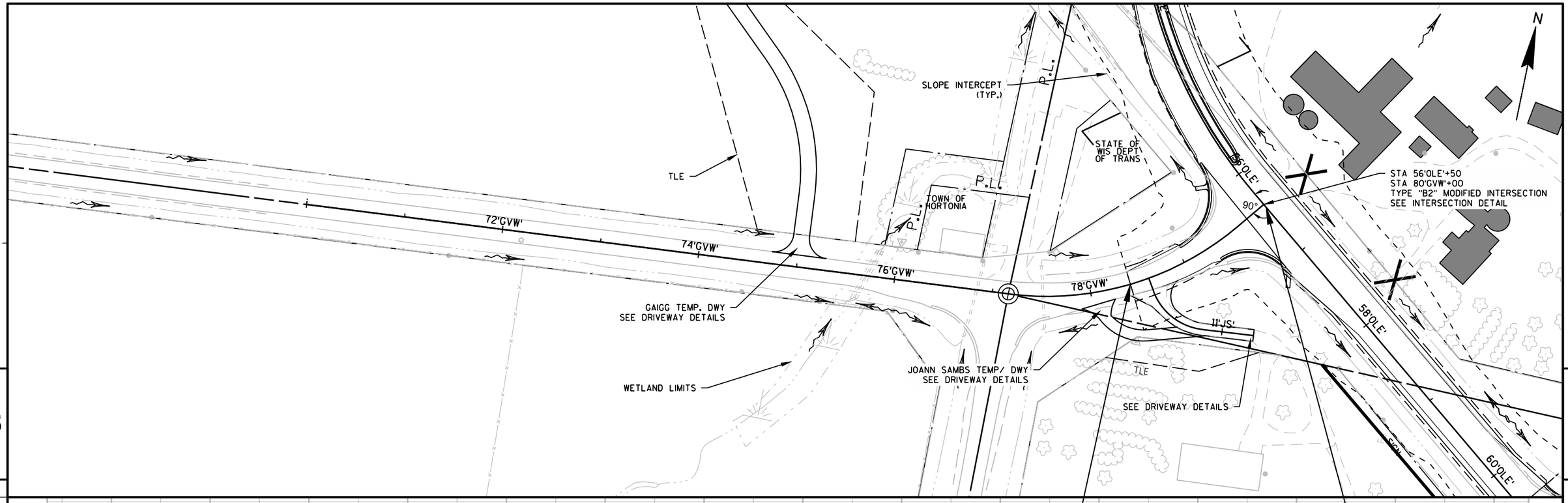
STA AHEAD: 256'WB'+92.48
STA BACK: 256'WB'+69.34
EQUATION
1-18" CPRC
1 INL MEDIAN 1G REQ'D
1 AEW REQ'D
R/W
SEE DRIVEWAY DETAILS
SAMBS, KEVIN
STATE OF WISCONSIN
DEPARTMENT OF
TRANSPORTATION
P.I.
EQUATION
STA AHEAD: 268'WB'+90.56
STA BACK: 268'WB'+27.45
'262'WB'+00-267'WB'+25
2.5' THICK FOUNDRY SAND
FILL PONDS W/ BREAKER RUN
TOP W/ MIN. 1' EMBANKMENT
& SALVAGED TOPSOIL
MATCH EXISTING CHANNEL
SAMBS, KEVIN & JANE
AGRICULTURE ACCESS PATH
505'RPB'
256'WB'
258'WB'
260'WB'
262'WB'
264'WB'
266'WB'
268'WB'
270'WB'
272'WB'
274'WB'
276'WB'
278'WB'
280'WB'
282'WB'
284'WB'
STH 15
258'EB'
260'EB'
262'EB'
264'EB'
266'EB'
270'EB'
272'EB'
274'EB'
276'EB'
278'EB'
280'EB'
282'EB'
284'EB'
1-18" CPRC
1 INL MEDIAN 2G REQ'D
1 AEW REQ'D
B-44-290
R-44-17
B-44-289
1-36" CPRC
2 AEW REQ'D
ASPHALTIC FLUME
(TYP.)
OBLITERATE OLD ROAD
SEE DRIVEWAY
DETAILS
OLD STH 15 WEST
C-44-124
SLOPE INTERCEPT
(TYP.)
CHANNEL REALIGNMENT
SEE CONSTRUCTION DETAIL
C-44-126
BEGIN PROJECT 1146-75-76
STA 255'WB'+77.77
GAIGG, ELIZABETH
END PROJECT 1146-75-76
STA 275'WB'+00
STATE OF WISCONSIN
DEPARTMENT OF
TRANSPORTATION
STATE OF
WIS DEPT
OF TRANS
NOTE:
DONE BY OTHERS
STATE OF WISC DEPT TRANSPORTN
N
5
5

STA 266'WB'+73.58
EL 817.90
STA 268'WB'+96.80
EL 819.03
LOW POINT STA 271+14.20
LOW POINT EL 817.74
'WB' R/L FINISHED PROFILE
0.57%
0.71%
0.96%
0.50%
256'WB'+12.84; 35.89' RT; EL=804.52
256'WB'+12.84; 74.80' LT; EL=800.31
111 LF OF CPRC CLASS III 18-INCH REQ'D
262'WB'+50.00; 33.34' RT; EL=810.50
262'WB'+50.00; 79.42' LT; EL=801.00
113 LF OF CPRC CLASS III 18-INCH REQ'D
'WB' R/L EXISTING PROFILE
'262'WB'+00-267'WB'+25
2.5' THICK FOUNDRY SAND
256'WB'+39.52; 69.42' RT; EL=802.08
256'WB'+06.67; 127.34' LT; EL=800.31
199 LF OF CPRC CLASS III 36-INCH REQ'D
269'WB'+60.31; 83.66' RT; EL=800.15
269'WB'+95.04; 135.61' LT; EL=796.80
222 LF OF 72 x 60 inch Concrete Box Culvert REQ'D
VPC STA 269'WB'+50.00
VPC EL 818.52
VPI STA 270'WB'+75.00
VPI EL 817.32
VPT STA 272'WB'+00.00
VPT EL 817.95
VCL = 250.00
K = 171.608
271'WB'+50.19; 31.28' RT; EL=813.50
271'WB'+49.94; 97.73' LT; EL=800.50
130 LF OF CPRC CLASS III 18-INCH REQ'D
23' MIN CLEARANCE
VPC STA 280'WB'+80.00
VPC EL 822.35
HIGH POINT STA 282+52.11
HIGH POINT EL 822.78
VCL = 1200.00
K = 344.211
840
830
820
810
800
790
780
770

803.75	803.60	803.88	803.89	803.89	804.16	803.55	801.82	801.76	802.89	804.54	805.38	805.71	804.59	803.78	803.65	801.61	803.00	801.50	798.40	797.47	799.38	796.19	793.07	793.83	792.57	792.50	791.59	790.23	788.01	783.03	784.17	785.74	786.12
811.38	811.88	812.32	812.89	813.47	814.04	814.61	815.19	815.76	816.33	816.91	817.48	818.09	818.79	818.99	819.00	818.12	817.74	817.95	818.45	818.95	819.45	819.95	820.45	820.95	821.45	821.95	822.44	822.74	822.75	822.46	821.89	821.02

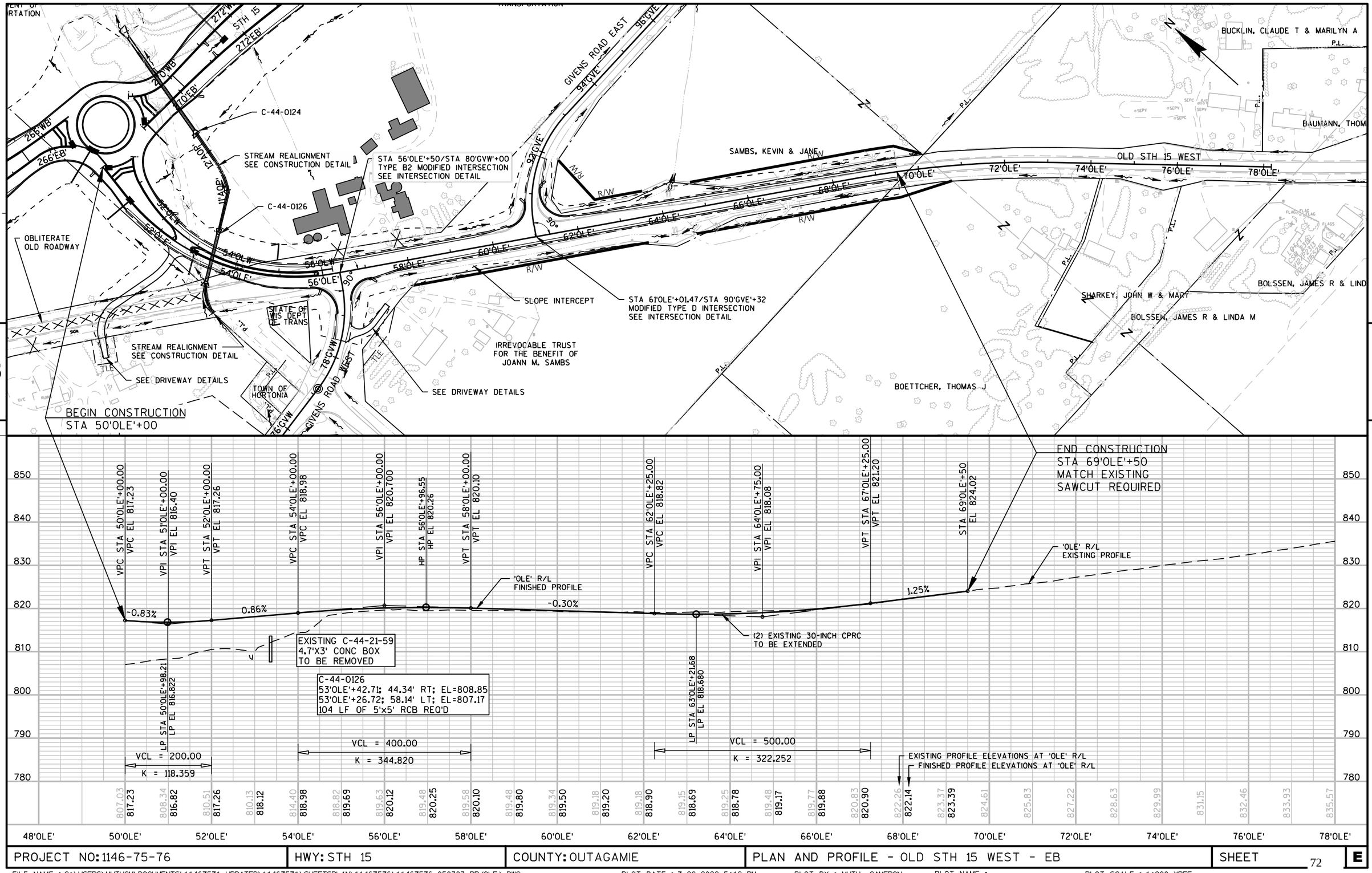
255'WB' 258'WB' 260'WB' 262'WB' 264'WB' 266'WB' 268'WB' 270'WB' 272'WB' 274'WB' 276'WB' 278'WB' 280'WB' 282'WB' 284'WB' 286'WB'

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - STH 15 WB	SHEET 70	E



PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - GIVENS ROAD WEST	SHEET 71	E

FILE NAME : C:\USERS\MUTHCM\DOCUMENTS\11467571-UPDATED\11467571\SHEETSPLAN\11467576\11467576_050302_PP (GVW.DWG
LAYOUT NAME - NEW P&P 2
PLOT DATE : 7/28/2022 10:40 AM PLOT BY : MUTH, CAMERON PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - OLD STH 15 WEST - EB	SHEET 72 E

FILE NAME : C:\USERS\MUTHCM\DOCUMENTS\11467571-UPDATED\11467571\SHEETSPLAN\11467576\11467576_050303_PP(OLE).DWG
LAYOUT NAME - 050303-PP(OLE)
PLOT DATE : 7/28/2022 5:19 PM PLOT BY : MUTH, CAMERON PLOT NAME : PLOT SCALE : 1:200_XREF

WISDOT/CADDS SHEET 44

C-44-0124

STREAM REALIGNMENT
SEE CONSTRUCTION DETAIL

SLOPE INTERCEPT
(TYP.)

C-44-0126

SEE DRIVEWAY DETAILS

STREAM REALIGNMENT
SEE CONSTRUCTION DETAIL

WETLAND LIMIT

SEE DRIVEWAY DETAILS

OLD STH 15 WEST

STH 15

GIVENS ROAD WEST

BEGIN CONSTRUCTION
STA 50'OLW'+37.58

END CONSTRUCTION
STA 56'OLW'+25

VPC STA 50'OLW'+50.00
VPC EL 817.59

LP STA 51'OLW'+70.27
LP EL 816.989

VPI STA 51'OLW'+50.00
VPI EL 816.59

VPT STA 52'OLW'+50.00
VPT EL 817.25

STA 50'OLW'+37.58
EL 817.71

STA 56'OLW'+25
EL 819.74

'OLW' R/L
FINISHED PROFILE

'OLW' R/L
EXISTING PROFILE

1.00%

0.66%

EXISTING C-44-21-59
4.7'X3' CONC BOX
TO BE REMOVED

VCL = 200.00

K = 120.262

C-44-0126
53'OLW'+42.71; 44.34' RT; EL=808.85
53'OLW'+26.72; 58.14' LT; EL=807.17
104 LF OF 5'x5' RCB REQ'D

EXISTING PROFILE ELEVATIONS AT 'OLW' R/L
FINISHED PROFILE ELEVATIONS AT 'OLW' R/L

	806.56	807.40	808.46	809.75	810.06	810.27	812.50	814.10	814.88	818.24	819.06	819.40										
	817.59	817.19	817.01	817.03	817.25	817.59	817.92	818.25	818.58	818.91	819.24	819.57										
46'OLW'	47'OLW'	48'OLW'	49'OLW'	50'OLW'	51'OLW'	52'OLW'	53'OLW'	54'OLW'	55'OLW'	56'OLW'	57'OLW'	58'OLW'	59'OLW'	60'OLW'	61'OLW'							

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - OLD STH 15 WEST - WB	SHEET 73 E

STA 61'0LE'+01+47
TYPE "D" MODIFIED INTERSECTION
SEE INTERSECTION DETAIL

SLOPE INTERCEPT
(TYP.)

R/W

92'GVE'

94'GVE'

GIVENS ROAD EAST

96'GVE'

98'GVE'

100'GVE'

102'GVE'

R/W

60'0LE'

90°

R/W

R/W

62'0LE'

R/W

STATE OF WISC DEPT TRANSPORTN

P.L.

R/W

SAMBS, KEVIN & JANE

N

N

5

5

BEGIN CONSTRUCTION
STA 90'GVE'+32
MATCH FINISHED GRADE

END CONSTRUCTION
STA 91'GVE'+87.87
MATCH EXISTING
SAWCUT REQUIRED

-2.84%

'GVE' R/L
EXISTING PROFILE

'GVE' R/L
FINISHED PROFILE

STA 90'GVE'+32
EL 818.56

STA 91'GVE'+87.87
EL 814.14

EXISTING PROFILE ELEVATIONS AT 'GVE' R/L
FINISHED PROFILE ELEVATIONS AT 'GVE' R/L

825
820
815
810
805
800
795
790

819.17 | 817.65 | **818.05** | 816.22 | **816.63** | 814.90 | **815.21** | 813.85 | 812.59 | 811.19 | 810.05 | 809.44 | 808.67 | 807.57 | 806.67 | 805.90 | 804.98 | 804.23 | 803.63 | 802.99 | 802.45 | 801.77 | 800.96 | 800.60 | 800.25 | 799.58 | 798.97 | 798.26 | 797.91 | 797.16 | 796.85

89'0LW' 90'0LW' 91'0LW' 92'0LW' 93'0LW' 94'0LW' 95'0LW' 96'0LW' 97'0LW' 98'0LW' 99'0LW' 100'0LW' 101'0LW' 102'0LW' 103'0LW' 104'0LW'

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - GIVENS ROAD EAST	SHEET 74	E

PI STA = 205+34.88
Y = 594343.563
X = 755563.655
DELTA = 10°03'13"
D = 0°56'32"
T = 534.88'
L = 1067.01'
R = 6080.91'
PC STA = 200+00.00
PT STA = 210+67.01
S.E. = 3.6%
R.O. = ---

STA 207'WBC'+00
1-18"CPRC 1 AEW REQUIRED

MATCH EXISTING
STA 201'WBC'+74.85
SAW CUT REQUIRED

INGRESS EGRESS EASEMENT
WALLS
TLE
R/W
P.L.
NURSERY
OAK
STH 15
202'WBC'
204'WBC'
206'WBC'
208'WBC'
210'WBC'
256'WB'
258'WB'
202'EBC'
204'EBC'
206'EBC'
208'EBC'
210'EBC'
258'EB'
SIGN
KOEHLER LANDREY
RUINS
FOOTBRIDGE
SURVEY PLAT OF SURVEY

SLOPE INTERCEPT
(TYP.)

BEGIN CONSTRUCTION
STA 200'WBC'+00
MATCH EXISTING

STA 200'WBC'+00
EL 806.12

STA 201'WBC'+40
EL 807.17

STA 210'WBC'+67.01
EL 811.75

END CONSTRUCTION
STA 210'WBC'+67.01
MATCH FINISHED GRADE
STA 255'WB'+77.77

'WBC' R/L
FINISHED PROFILE

0.75%
0.49%

MATCH EXISTING
STA 201'WBC'+74.85
SAWCUT REQUIRED

207'EB'+00.00; 25.43' RT; EL=804.25
207'EB'+00.00; 49.90' LT; EL=804.00
75 LF OF CPRC CLASS III 18-INCH REO'D

'WBC' R/L
EXISTING PROFILE

EXISTING PROFILE ELEVATIONS AT 'WBC' R/L
FINISHED PROFILE ELEVATIONS AT 'WBC' R/L

| | | |

PI STA = 206+33.50
Y = 594253.160
X = 755637.711
DELTA = 12°23'16"
D = 1°26'16"
T = 432.48'
L = 861.60'
R = 3985.05'
PC STA = 202+01.02
PT STA = 210+62.61
S.E. = 3.6%
R.O. = ---

STA 210'WBC+67.01 =
STA 255'WB'+77.77

SLOPE INTERCEPT
(TYP.)

N

INGRESS
EGRESS
EASEMENT

WALLS

TLE

R/W

P.L.

NURSERY

OAK

STH 15

202'WBC'
202'EBC'
204'WBC'
204'EBC'
206'WBC'
206'EBC'
208'WBC'
208'EBC'
210'WBC'
210'EBC'
256'WB'
258'WB'
258'EB'

SIGN

KOEHLER
CANOPY
RUINS

SURVEY PLAT OF SURVEY

FOOTBRIDGE

STA 256'EB'+50
1-36" CPRC CL IV
2AEW REQUIRED
SEE TEMPORARY CONNECTION STAGING PLAN

BEGIN CONSTRUCTION
STA 200'EBC'+00
MATCH EXISTING
SAWCUT REQUIRED

END CONSTRUCTION
STA 210'EBC'+62.61
MATCH FINISHED GRADE
STA 256'EB'+00

STA 200'EBC'+00
EL 806.00

STA 203'EBC'+06.52
EL 809.02

STA 204'EBC'+99.74
EL 809.64

VPC STA 205+56.26
VPC EL 809.78

VPI STA 206+58.19
VPI EL 809.45

VPT STA 207+60.12
VPT EL 809.94

STA 210'EBC'+62.61
EL 811.38

0.99%
0.32%
0.29%
0.33%
0.48%

'EBC' R/L
FINISHED PROFILE

MATCH EXISTING
STA 205'EBC'+52.69
SAWCUT REQUIRED

'EBC' R/L
EXISTING PROFILE

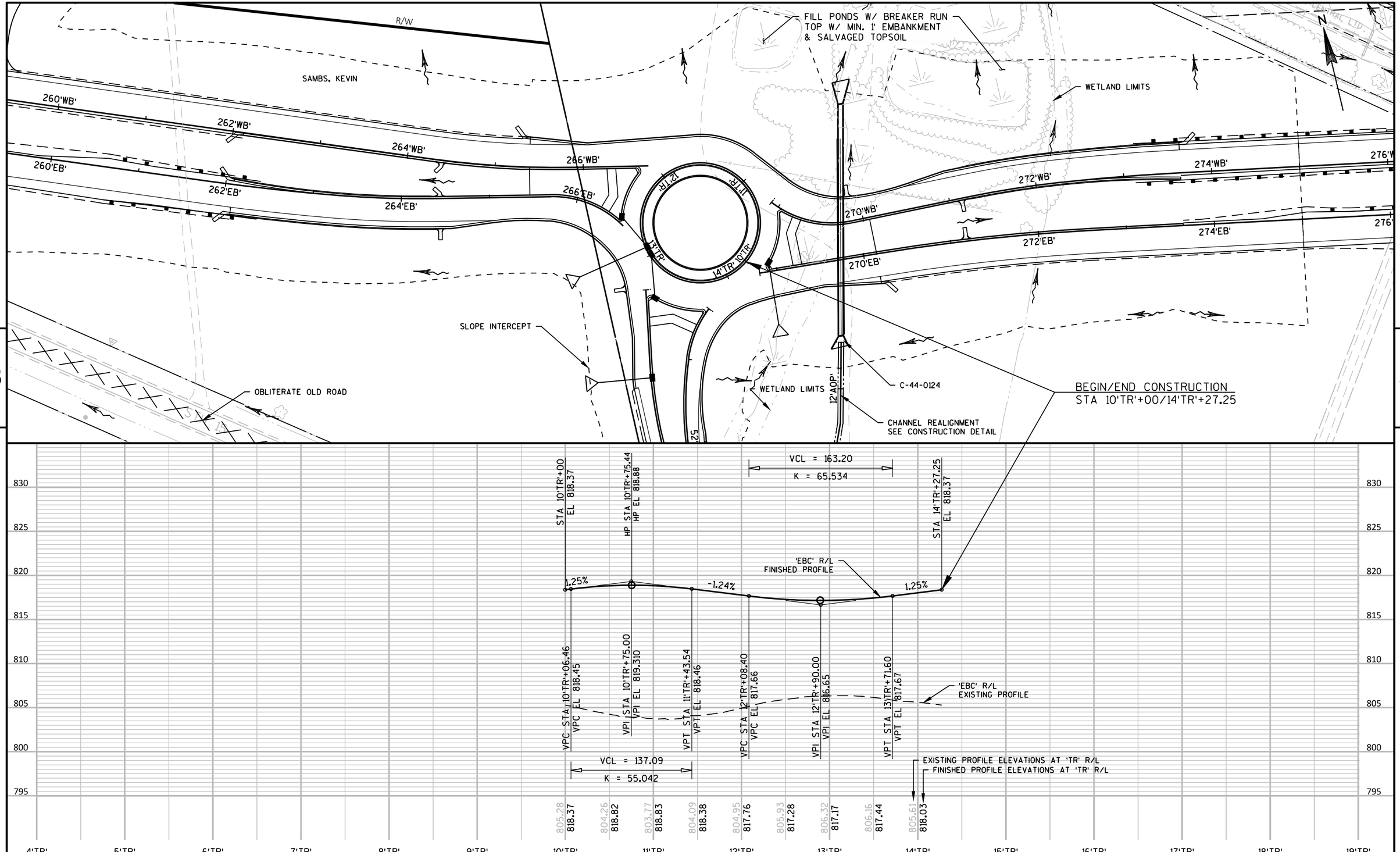
STA 205'EBC'+52.69
EL 809.80

VCL = 203.86
K = 254.00

EXISTING PROFILE ELEVATIONS AT 'EBC' R/L
FINISHED PROFILE ELEVATIONS AT 'EBC' R/L

198'EBC'	199'EBC'	200'EBC'	201'EBC'	202'EBC'	203'EBC'	204'EBC'	205'EBC'	206'EBC'	207'EBC'	208'EBC'	209'EBC'	210'EBC'	211'EBC'	212'EBC'	213'EBC'
806.21	806.00	806.60	806.49	807.08	806.99	807.57	807.48	808.04	807.97	808.63	808.46	808.99	808.96	809.30	809.16
809.64	809.32	809.79	809.48	809.64	809.64	809.80	809.79	809.75	809.68	809.48	809.65	808.01	809.72	807.03	809.89
807.07	810.13	806.08	810.37	806.27	810.60	805.74	810.84	804.70	811.08	805.53	811.32				

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - TEMPORARY CONNECTION - EASTBOUND	SHEET 76	E



5 5

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - STH 15/CTH T ROUNDABOUT	SHEET 77	E

GAIGG, ELIZABETH

STH 15

STH 15

R/W

STA 259'WB'+25
=STA 5'KS'+00

BP: 5'KS'+00.00

PC: 5'KS'+72.90

PT: 6'KS'+25.83

TLE

EP: 9'KS'+20.39

PC: 8'KS'+27.85

6'KS'

N51° 27' 53"E

8'KS'

CURVE KS-1

N21° 08' 25"E

CURVE KS-2

TLE

260'WB'

260'EB

SLOPE INTERCEPT
(TYP.)

CURVE KS-1
PI STA = 6+00.00
Y = 594108.197
X = 756393.196
DELTA = 30°19'28"
D = 57°17'39"
T = 27.10'
L = 52.93'
R = 100.00'
PC STA = 5+72.90
PT STA = 6+25.83

CURVE KS-2
PI STA = 8+77.00
Y = 594282.108
X = 756610.423
DELTA = 47°45'58"
D = 51°37'03"
T = 49.15'
L = 92.54'
R = 111.00'
PC STA = 8+27.85
PT STA = 9+20.39

N

STA 5'KS'+34.00
EL 813.25

VPI STA 5'KS'+84.0
VPI EL 812.084

BEGIN CONSTRUCTION
STA 5'KS'+34
MATCH EXISTING

-2.33%

VCL = 44.63

K = 12.00

'KS' R/L
PROPOSED PROFILE

-6.05%

VPC STA 5'KS'+61.68
VPC EL 812.60

VPT STA 6'KS'+06.32
VPT EL 810.73

'KS' R/L
EXISTING PROFILE

STA 9'KS'+20.39
EL 791.74

END CONSTRUCTION
STA 9'KS'+20.39
MATCH EXISTING

EXISTING PROFILE ELEVATIONS AT 'KS' R/L
FINISHED PROFILE ELEVATIONS AT 'KS' R/L

0'KS'+00	1'KS'+00	2'KS'+00	3'KS'+00	4'KS'+00	5'KS'+00	6'KS'+00	7'KS'+00	8'KS'+00	9'KS'+00	10'KS'+00	11'KS'+00	12'KS'+00	13'KS'+00	14'KS'+00	15'KS'+00
803.98	802.35	812.88	799.34	811.10	798.09	808.09	797.24	805.07	795.58	802.04	794.08	799.02	793.43	796.00	791.86	792.97

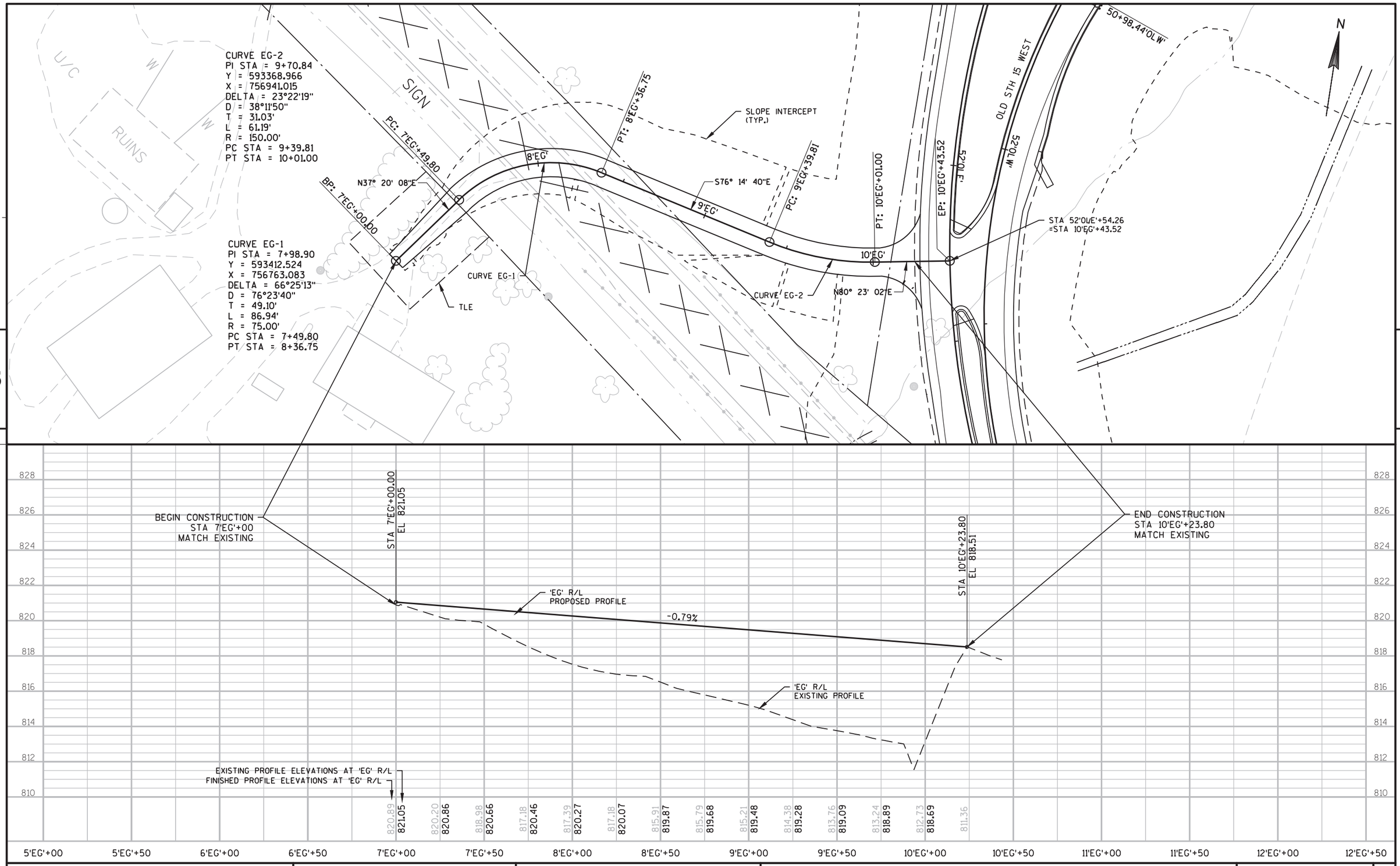
825 820 815 810 805 800 795 790

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	DRIVEWAY DETAILS - KEVIN SAMBS DRIVEWAY	SHEET 78	E

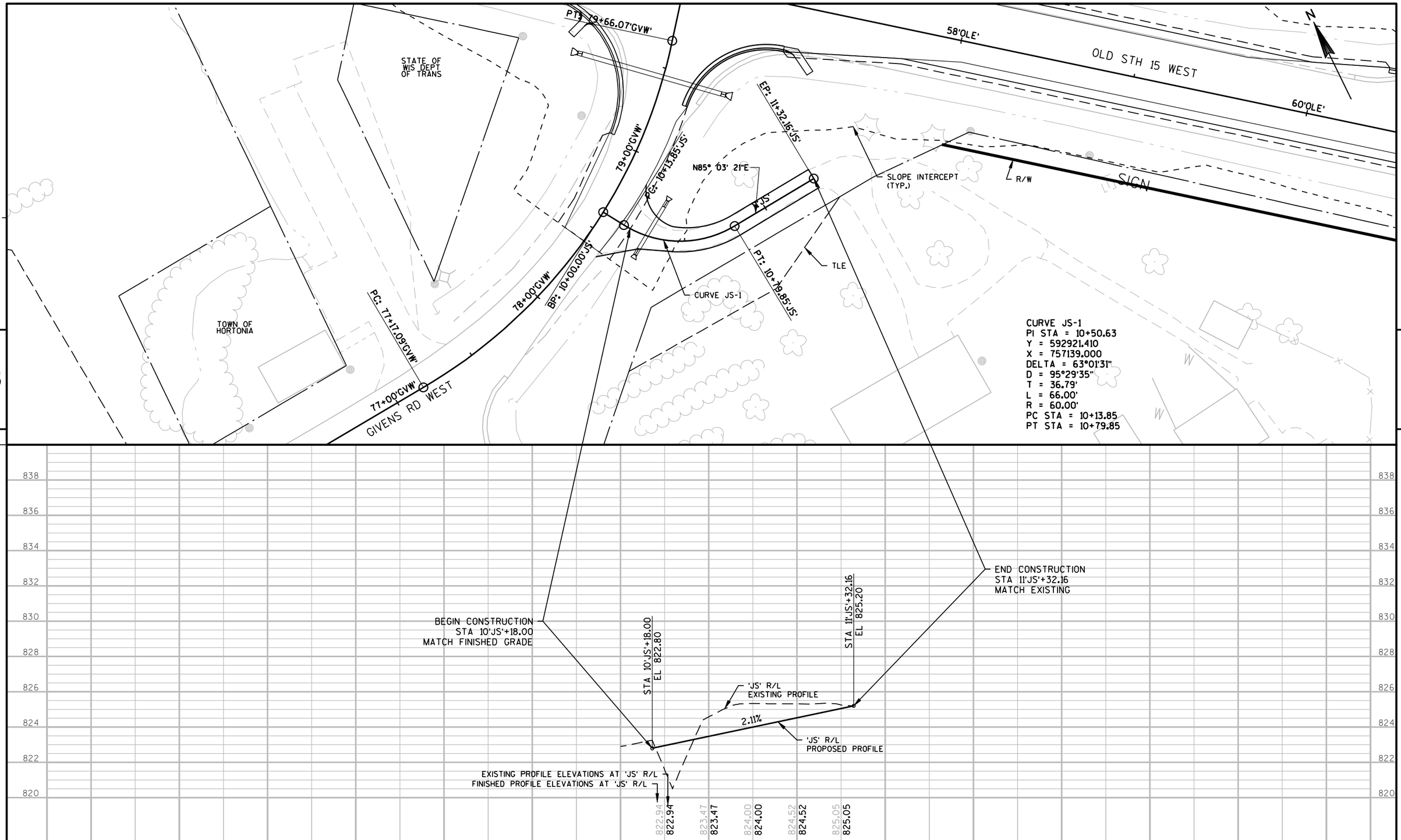
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467576\11467576_021801_CD.DWG
LAYOUT NAME - 021801_CD

PLOT DATE : 11/13/2019 6:22 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 100'_XREF

WISDOT/CADDS SHEET 44



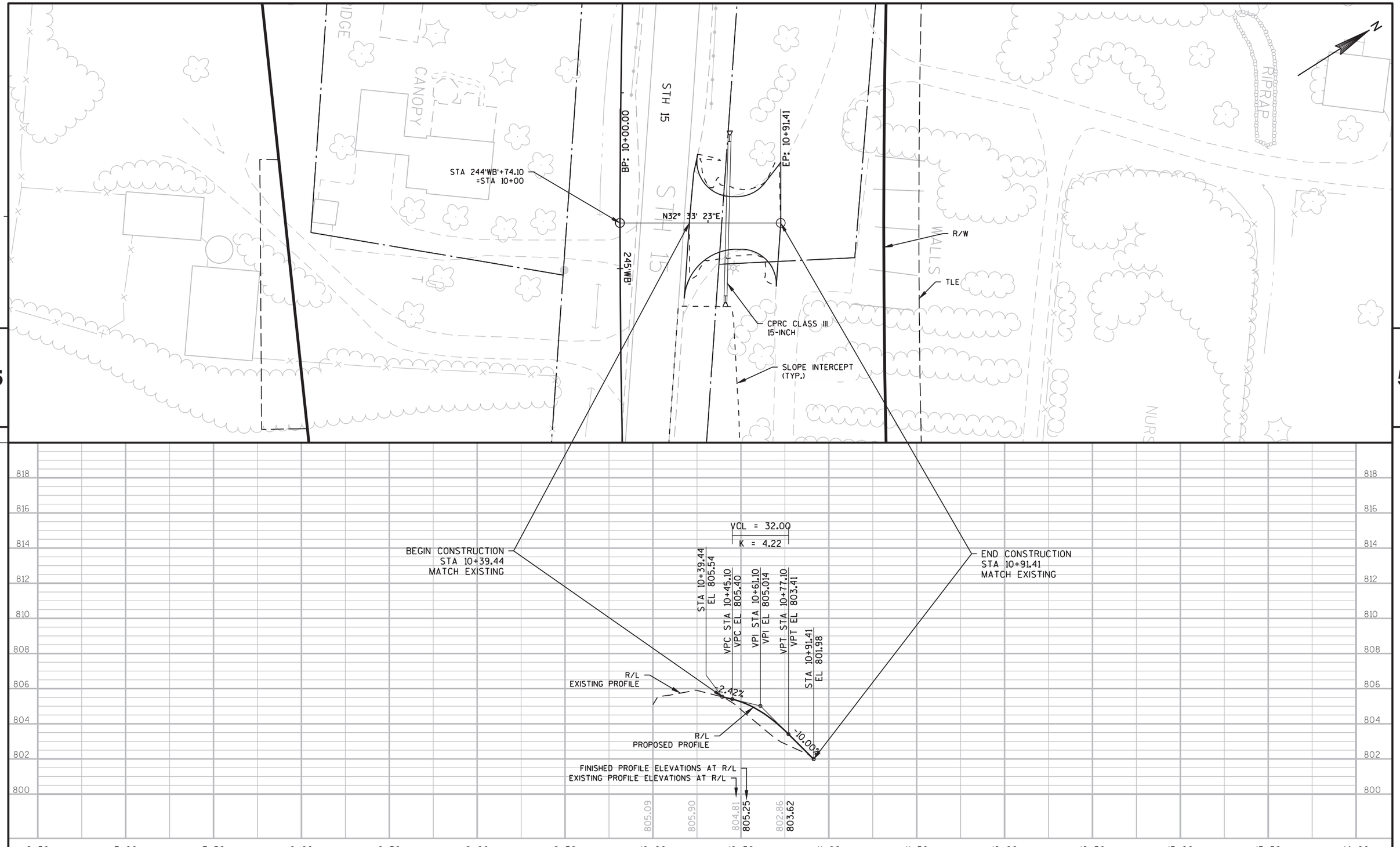
PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	DRIVEWAY DETAILS - ELIZABETH GAIGG DRIVEWAY	SHEET 79 E



PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	DRIVEWAY DETAILS - JOANN SAMBS DRIVEWAY	SHEET 80	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_021803_CD.DWG PLOT DATE : 4/4/2022 3:08 PM PLOT BY : WENDT, SCOTT/MKE PLOT NAME : PLOT SCALE : 1 IN:50 FT
LAYOUT NAME - 021803_CD

WISDOT/CADDS SHEET 44



PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	DRIVEWAY DETAILS - WOLFRATH'S NURSERY DRIVEWAY	SHEET 81 E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_021804_CD.DWG
LAYOUT NAME - 021804_CD
PLOT DATE : 5/2/2022 2:45 PM
PLOT BY : WENDT, SCOTT/MKE
PLOT NAME :
PLOT SCALE : ****.****'
WISDOT/CADDS SHEET 44

Standard Detail Drawing List

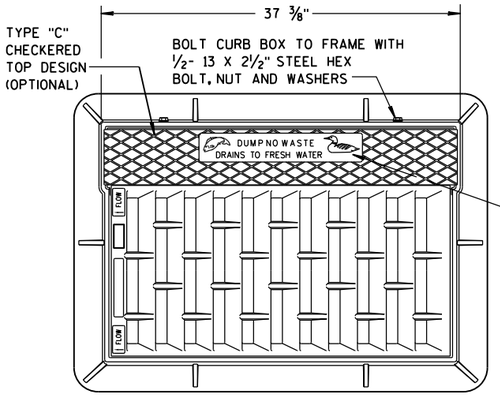
08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08C06-02	INLETS 3-FT AND 4-FT DIAMETER
08C08-02	INLETS MEDIAN 1 AND 2 GRATE
08D01-22A	CONCRETE CURB & GUTTER
08D01-22B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D04-06	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-20A	CURB RAMPS TYPES 1 AND 1-A
08D05-20B	CURB RAMPS TYPES 2 AND 3
08D05-20C	CURB RAMPS TYPES 4A AND 4A1
08D05-20D	CURB RAMPS TYPE 4B AND 4B1
08D05-20E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-20F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-20G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08D20-01	DRIVEWAYS WITH CURB & GUTTER RETURNS
08D21-01	DRIVEWAYS WITHOUT CURB & GUTTER
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E11-02	TURBIDITY BARRIER
08E14-01	TRACKING PAD
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
09B02-10	CONDUIT
09B16-02	PULL BOX NON-CONDUCTIVE
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D04-03	LIGHTING CONTROL CABINET 120/240 VOLT
11B02-02	CONCRETE MEDIAN NOSE
12A03-10	NAME PLATE (STRUCTURES)
12A04-03	STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES & OVERHEAD SIGN SUPPORTS & TRAFFIC SIGNALS
13A05-05A	SHOULDER RUMBLE STRIP, MILLING
13A05-05B	SHOULDER RUMBLE STRIP, MILLING
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C11-13A	RURAL DOWELED CONCRETE PAVEMENT
13C11-13B	RURAL DOWELED CONCRETE PAVEMENT
13C18-07A	CONCRETE PAVEMENT JOINTING
13C18-07B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-07C	CONCRETE PAVEMENT JOINT TYPES
13C18-07D	CONCRETE PAVEMENT JOINT TYPES AT UTILITY FIXTURES
13C18-07E	CONCRETE PAVEMENT JOINTING AND STEEL REINFORCEMENT IN ROUNDABOUTS
13C18-07F	CONCRETE PAVEMENT INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER
13C19-03	HMA LONGITUDINAL JOINTS
14A02-01	TREE PLANTING DETAIL
14B29-01	SAFETY EDGE
14B42-07A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B47-03A	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-03B	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-03C	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-03D	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-03E	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-03F	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

6

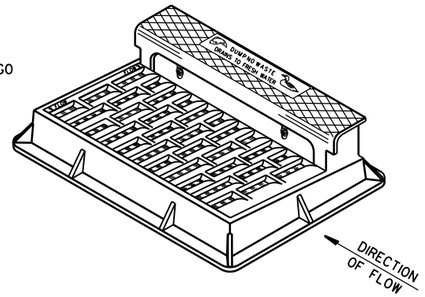
Standard Detail Drawing List

14B47-03G	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-08C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C07-15D	ROUNDABOUT ARROWS
15C08-21A	LONGITUDINAL MARKING (MAINLINE)
15C08-21B	TEMPORARY LONGITUDINAL PAVEMENT MARKING
15C08-21C	PAVEMENT MARKING (TURN LANES)
15C08-21D	PAVEMENT MARKING (TURN LANES)
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C18-06A	MEDIAN ISLAND MARKING PAVEMENT MARKINGS
15C18-06B	MEDIAN ISLAND MARKING MEDIAN ISLAND NOSE
15C21-10	SIGNING AND MARKING FOR TWO LANE TO FOUR LANE DIVIDED TRANSITIONS
15C35-05A	PAVEMENT MARKING (INTERSECTIONS)
15D29-06	TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD

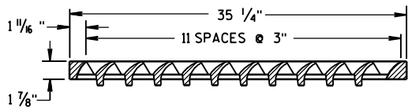
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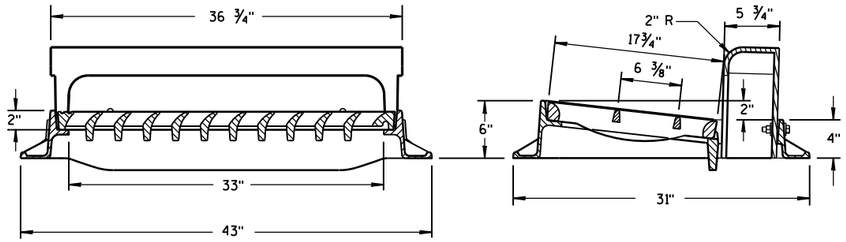


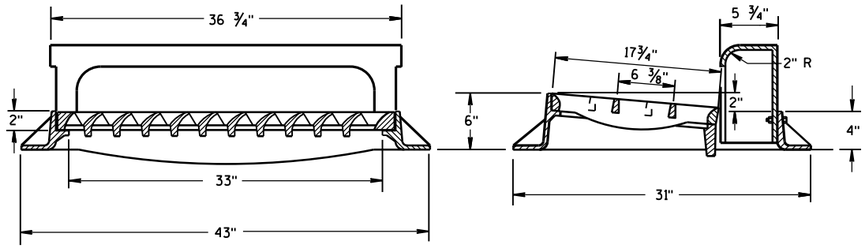
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

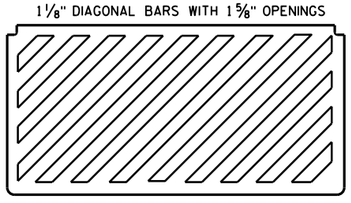






TYPE "H"

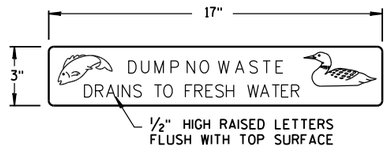
NOTE: EITHER CASTING IS ACCEPTABLE



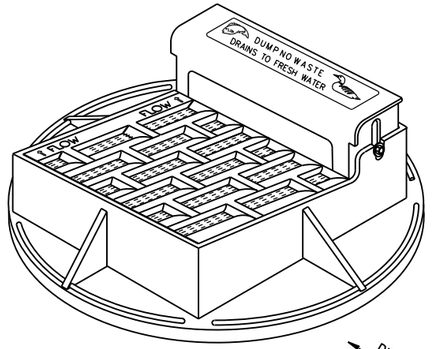
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)

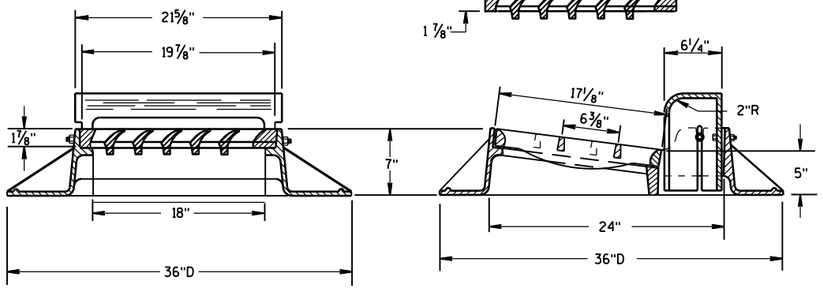


LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

NOTE:
GRATE IS REVERSIBLE.



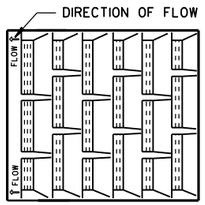
TYPE "A"

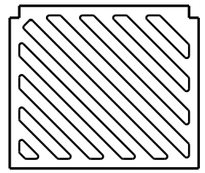
GENERAL NOTES

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.

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.

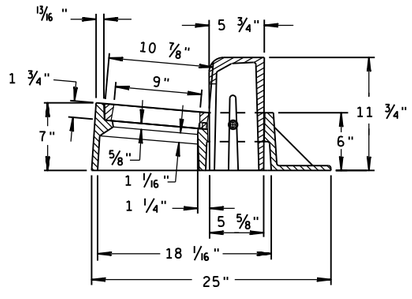


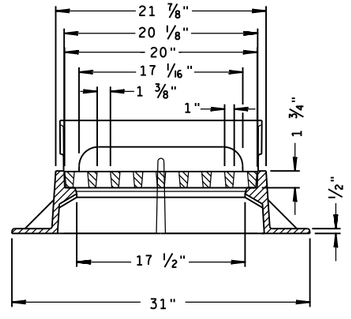


SPECIAL GRATE FOR TYPE "A" COVER

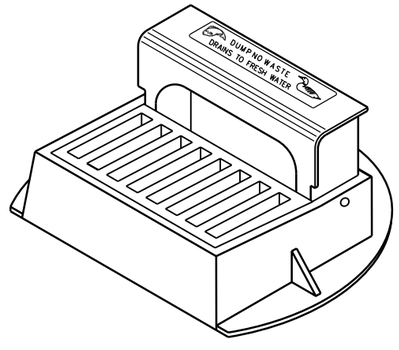
(MEASURES 19 3/4" X 17" X 1 7/8")

(NOTED AS TYPE A-S ON DRAINAGE TABLE)





TYPE "Z"



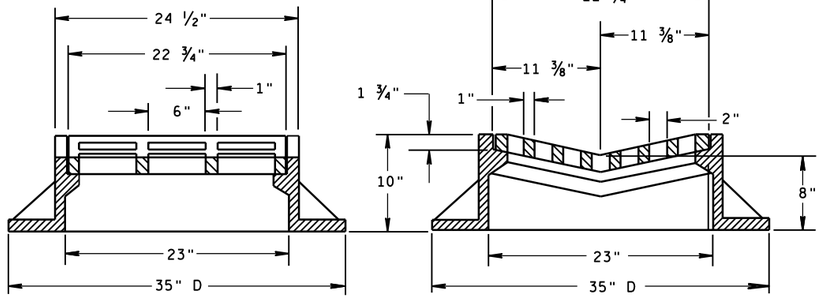
INLET COVERS
TYPE A, H, A-S, H-S & Z

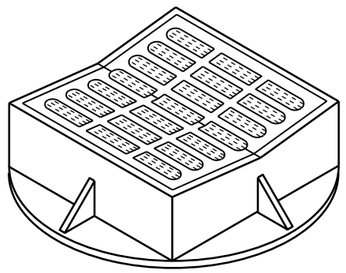
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

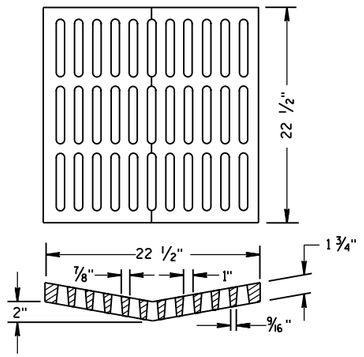
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S.D.D. 8 A 5-19a





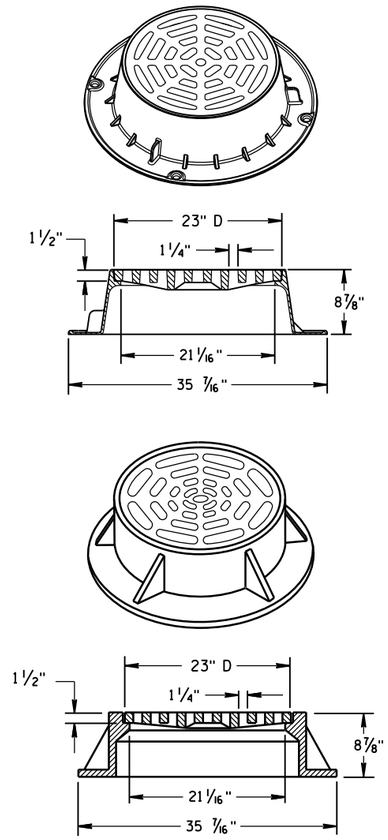
TYPE "B"



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"

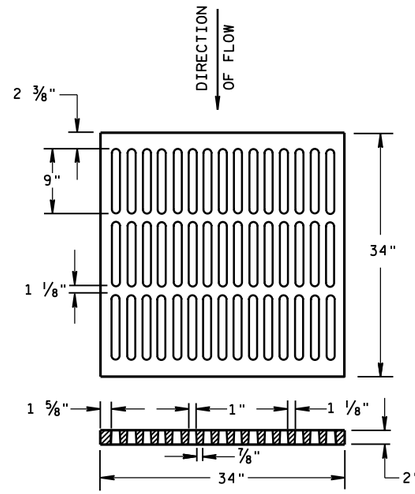
NOTE: EITHER CASTING IS ACCEPTABLE

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.

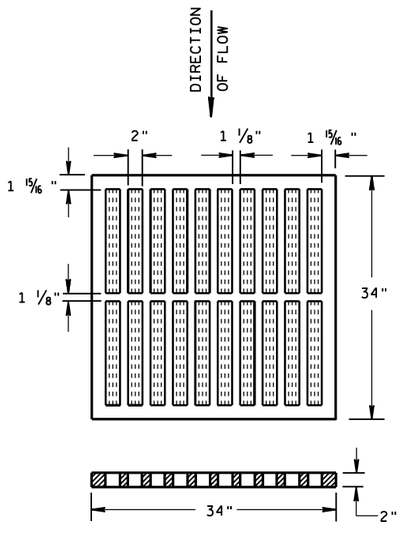
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED

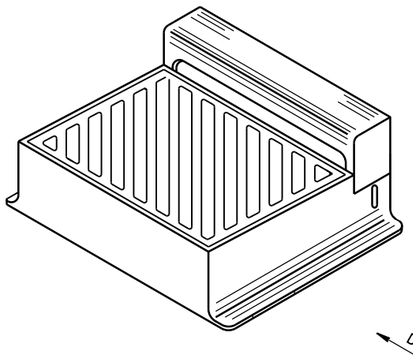
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE



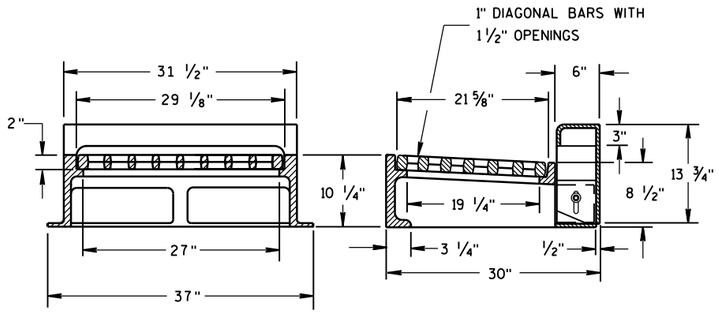
TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS

NOTED AS TYPE MS ON DRAINAGE TABLE



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

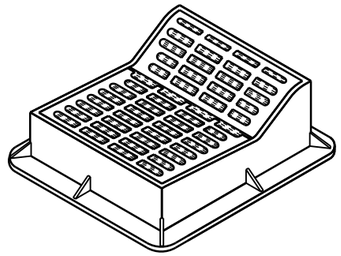
11/27/2013 — DATE

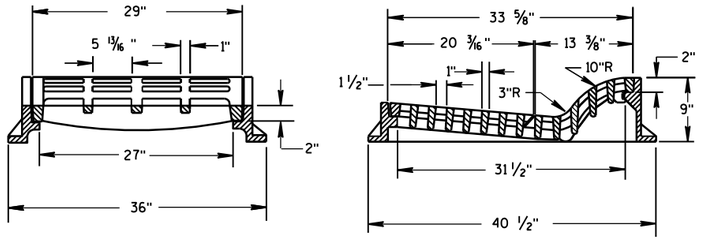
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER

FHWA

6

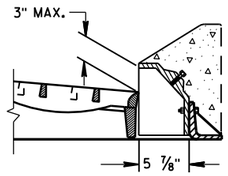
S.D.D. 8 A 5-19b





TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

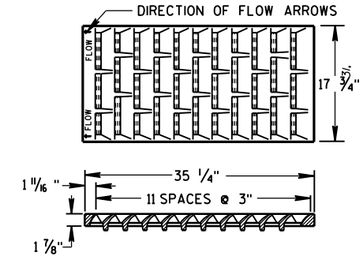
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

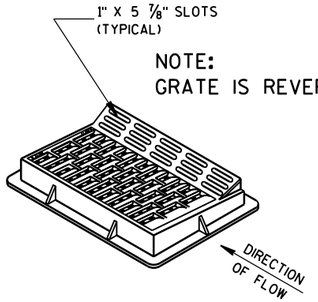
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

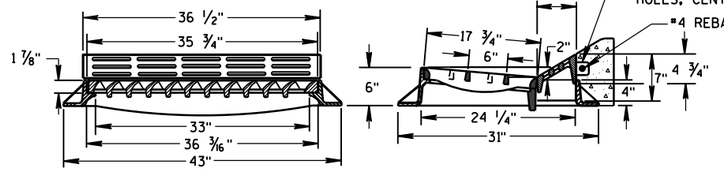
GENERAL NOTES

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 INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.



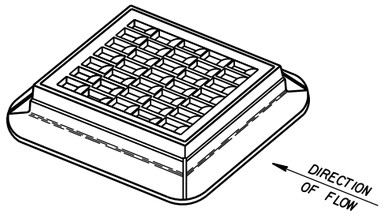


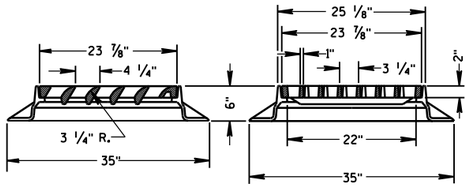


TYPE "HM"

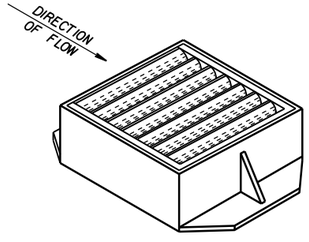
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

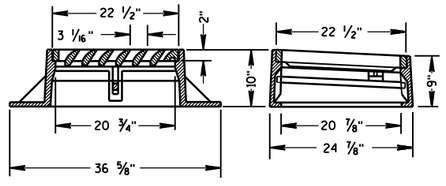
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



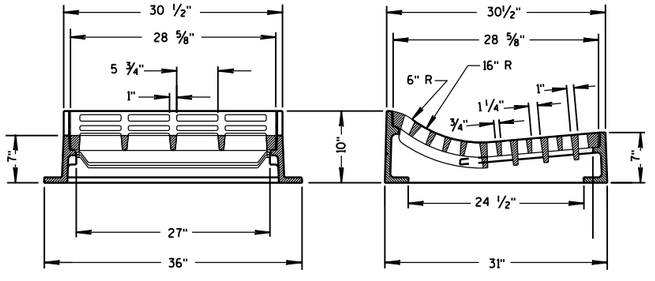


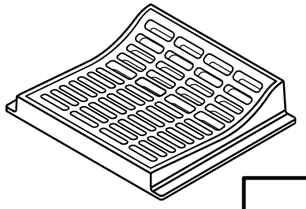
TYPE "S"





TYPE "V"





TYPE "T"

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.

INLET COVERS
TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

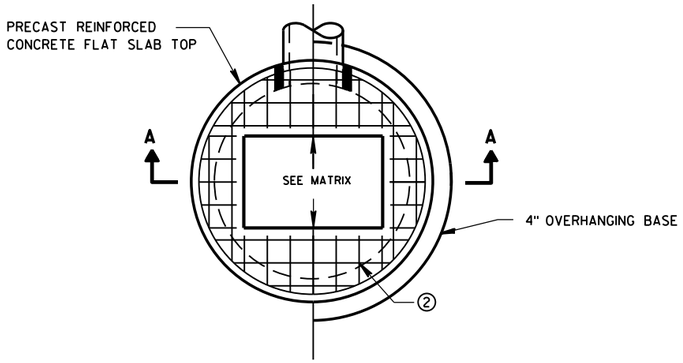
APPROVED
11/27/2013
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

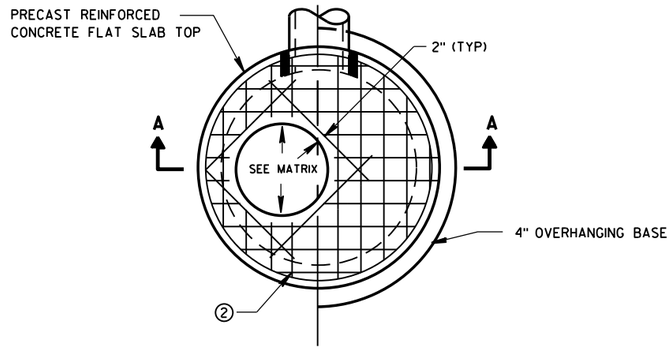
FHWA

6

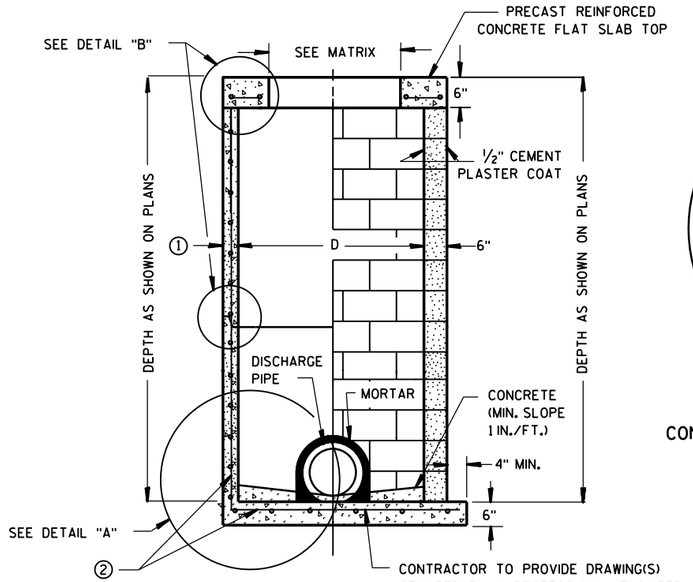
S.D.D. 8 A 5-19c



PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

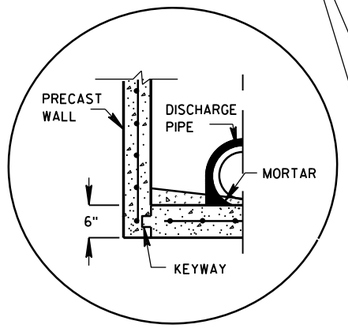


SECTION A-A

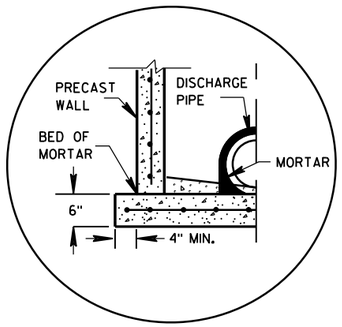
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

CIRCULAR INLETS W/ FLAT TOP

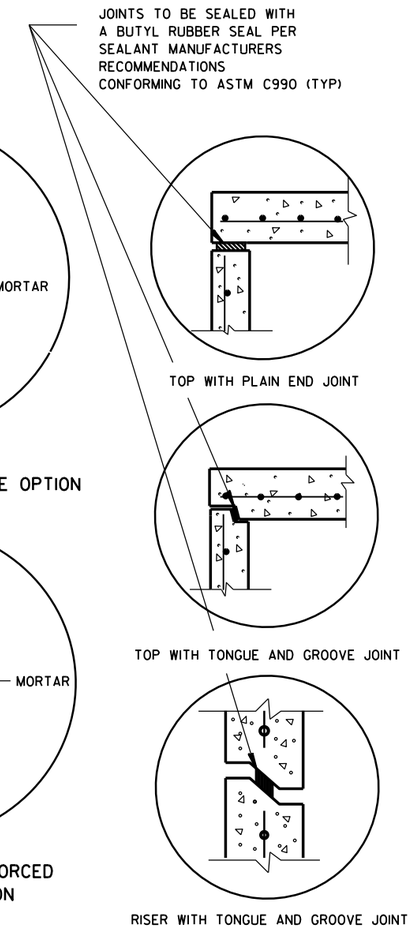


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "B"

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 UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES 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.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

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

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

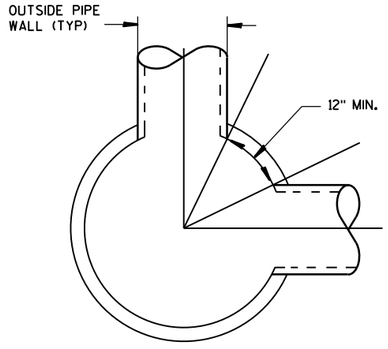
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

INLET COVER OPENING MATRIX

	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
INLET SIZE	OPENING SIZE (FT)											
3-FT	2 DIA.				X							X
	2X2	X	X					X		X		
4-FT	2 DIA.				X							X
	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2X3						X					
	2.5X3					X						



DETAIL "C"

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18

INLETS 3-FT AND 4-FT DIAMETER

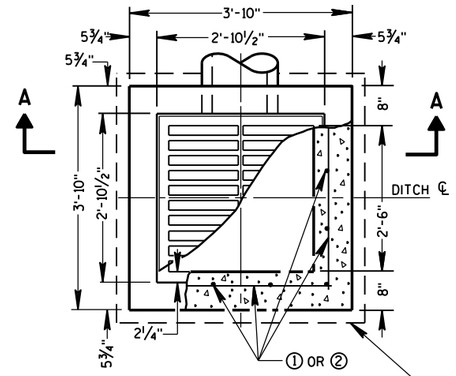
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

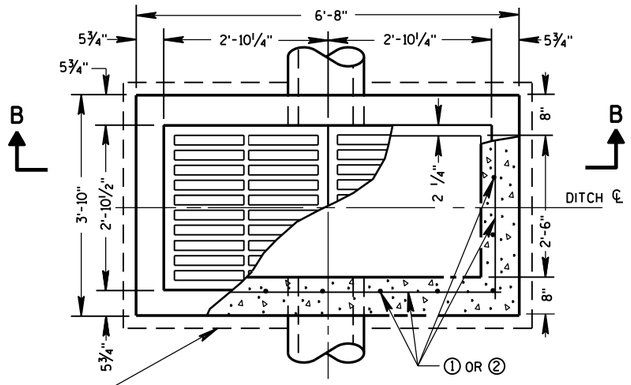
INLETS 3-FT AND 4-FT DIAMETER

6

S.D.D. 8 C 6-2

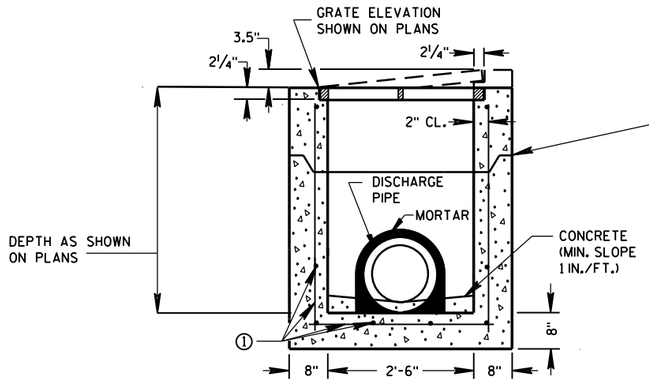


PLAN VIEW

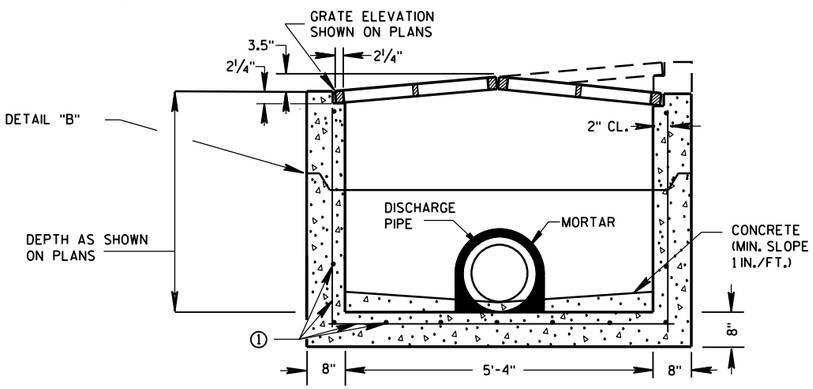


PLAN VIEW

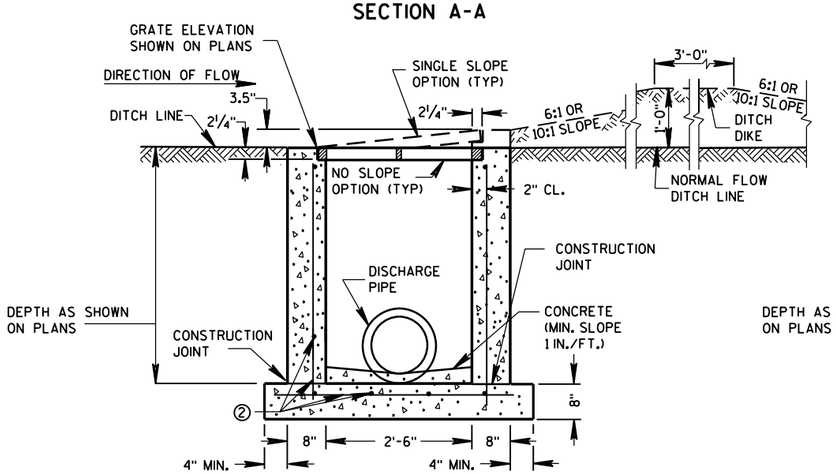
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



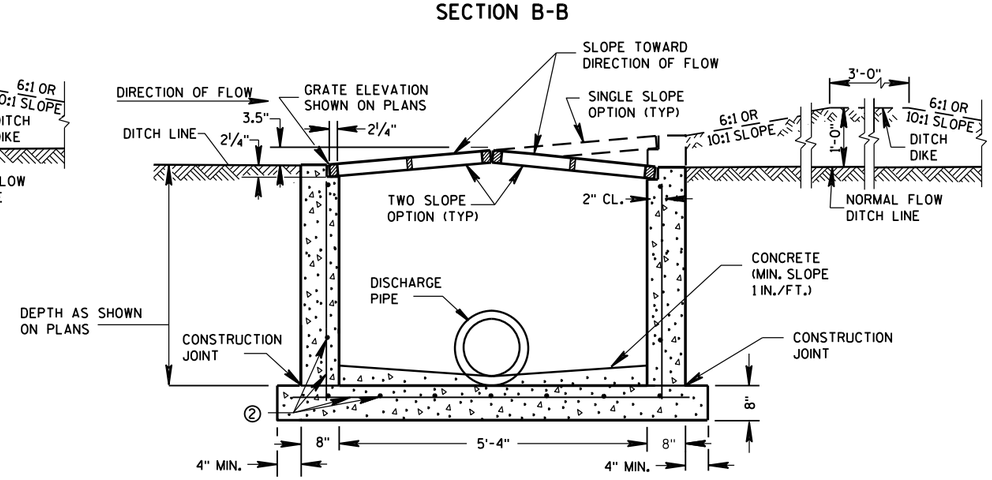
PRECAST REINFORCED CONCRETE SECTION A-A



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, 1G-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.

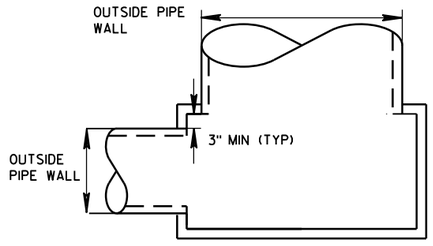
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

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.

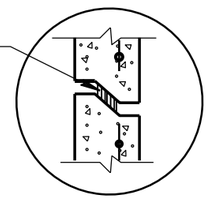
PIPE MATRIX

	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)



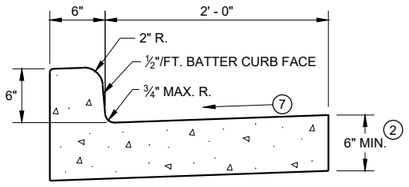
DETAIL "B"

INLETS MEDIAN 1 AND 2 GRATE

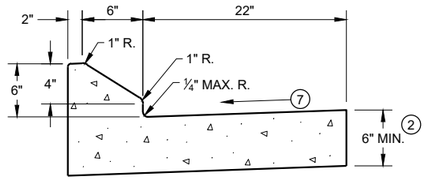
STATE OF WISCONSIN
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Sept., 2016 — DATE
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FHWA

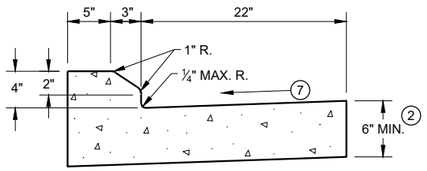
6
S.D.D. 8 C 8-2



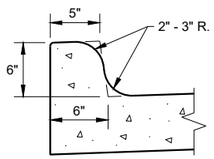
TYPES A (1) & D



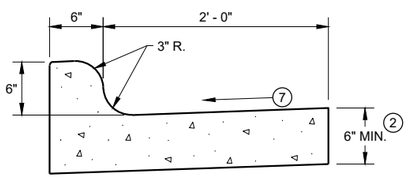
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

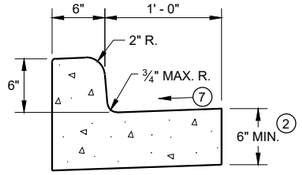


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



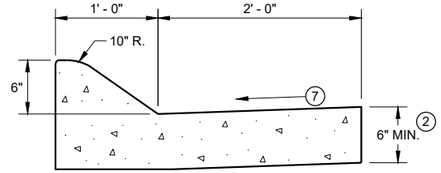
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"



TYPES A (1) & D

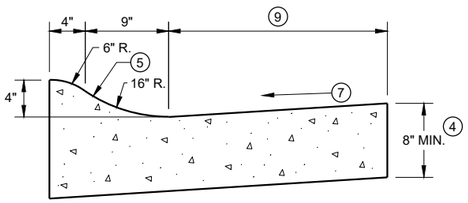
CONCRETE CURB AND GUTTER 18"



6" SLOPED CURB TYPES A (1) & D

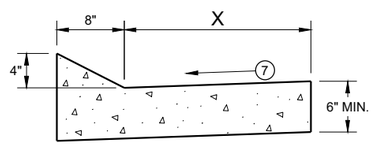
4" SLOPED CURB TYPES A (1) & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R (1) & T

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

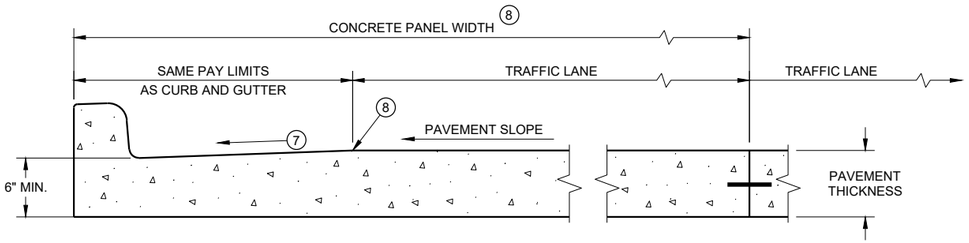


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

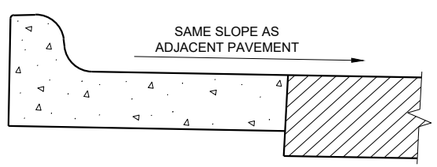
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT * WITH INTEGRAL CURB AND GUTTER

* BIKE LANE IS NOT SHOWN



REVERSE SLOPE GUTTER (6)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

DETAILS OF CONSTRUCTION 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 AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

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 GUTTERS 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) UNLESS OTHERWISE NOTED, FOR STAKING PURPOSES 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.

(7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

(9) CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE "R" AND "T" = 17 INCHES
CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE "R" AND "T" = 23 INCHES

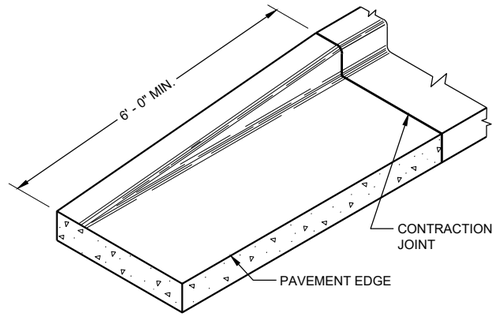
CONCRETE CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

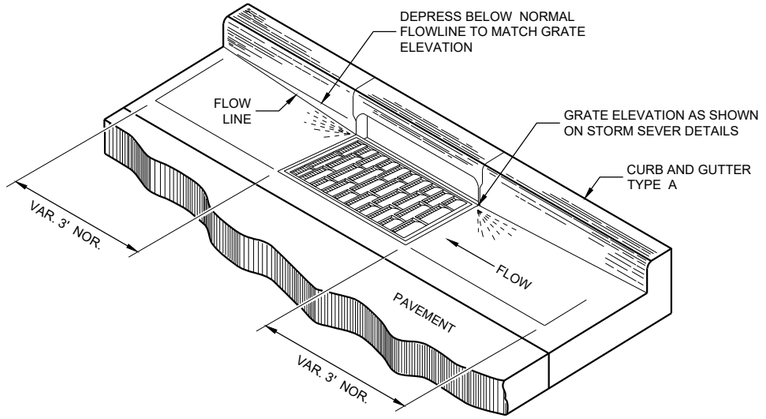
6

SDD 08D01 - 22a

SDD 08D01 - 22a



END SECTIONCURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS

(TYPICAL H INLET COVER SHOWN)

GENERAL NOTES

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

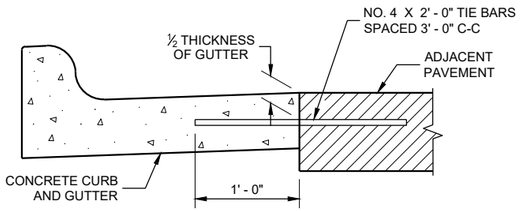
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

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

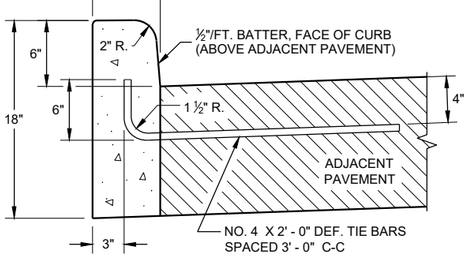
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

(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.

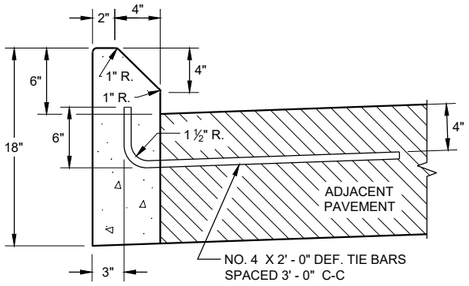
(9) REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



TYPICAL TIE BAR LOCATION (1)

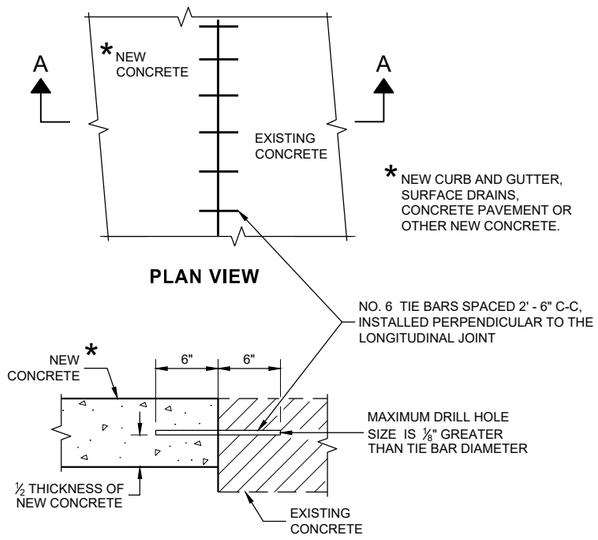


TYPES A (1) & D

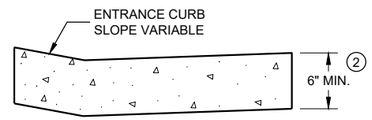


TYPES G (1) & J

CONCRETE CURB



TIE BARS DRILLED INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

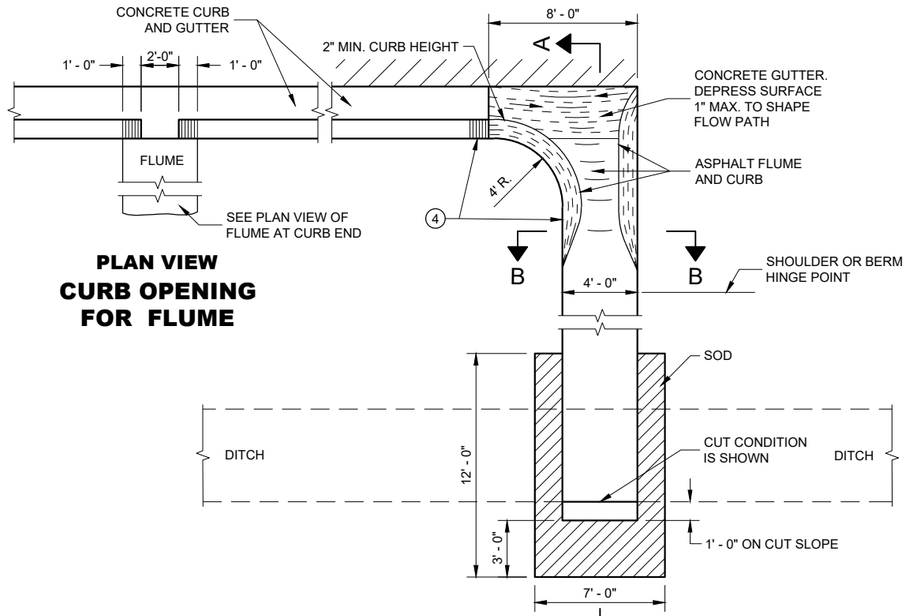
APPROVED
February 2021 — DATE
/S/ Rodnery Taylor — ROADWAY STANDARDS DEVE ENGINEER
FHWA

6

SDD08D01 - 22b

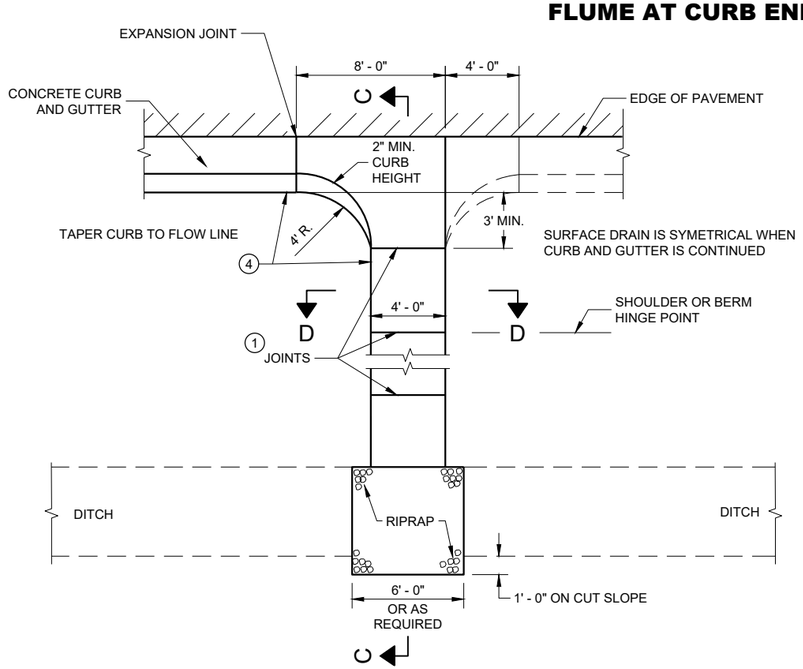
NOTE: TAPER CURB ENDS TO GUTTER IN 1' - 0"

ASPHALTIC FLUME



PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



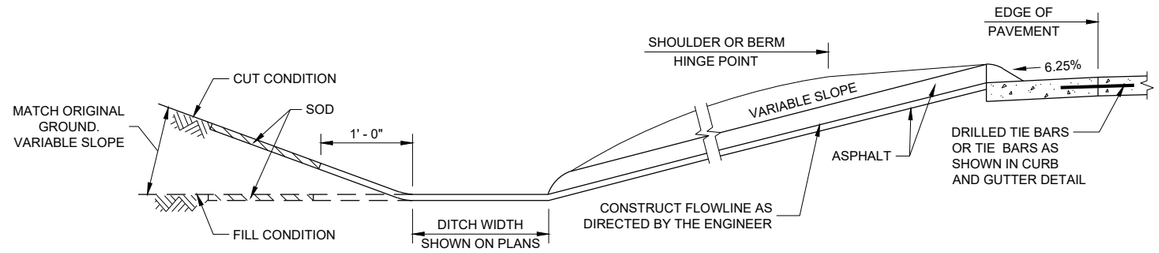
PLAN VIEW
CONCRETE SURFACE DRAIN

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.

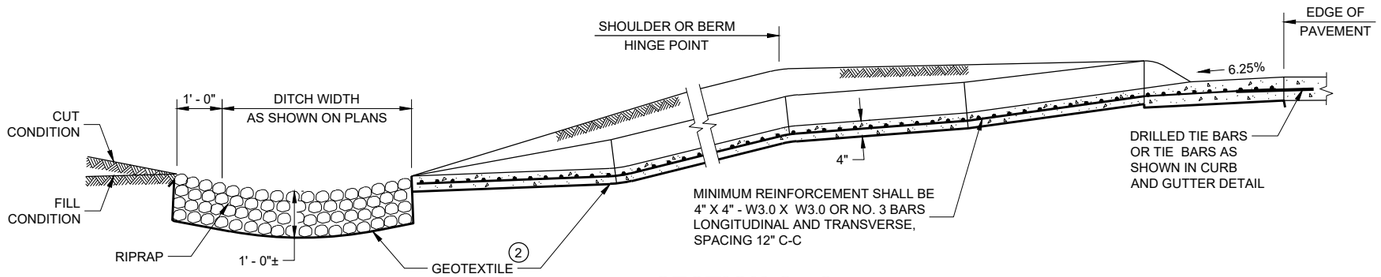
4" X 4" - W3.0 X W3.0 CONCRETE REINFORCEMENT SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

1. JOINTS SHALL BE ⅛" TO ¼" WIDE BY 1½" DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.
2. GEOTEXTILE 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.
4. ANGLE OF FLUME IN RELATION TO BACK OF CURB TO BE CONSTRUCTED PER THE PLAN DETAILS OR AS DIRECTED BY THE ENGINEER. ANGLE OF FLUME MAY BE OTHER THAN 90 DEGREES AS SHOWN.

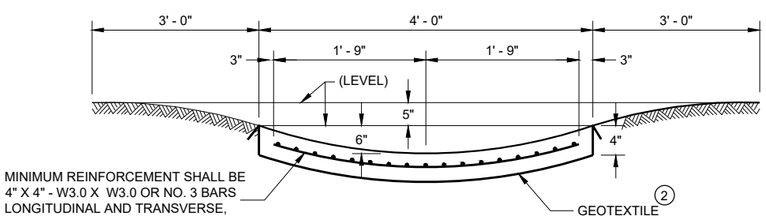


SECTION A - A

SECTION B - B



SECTION C - C



SECTION D - D

CONCRETE SURFACE DRAINS AND ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2021
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

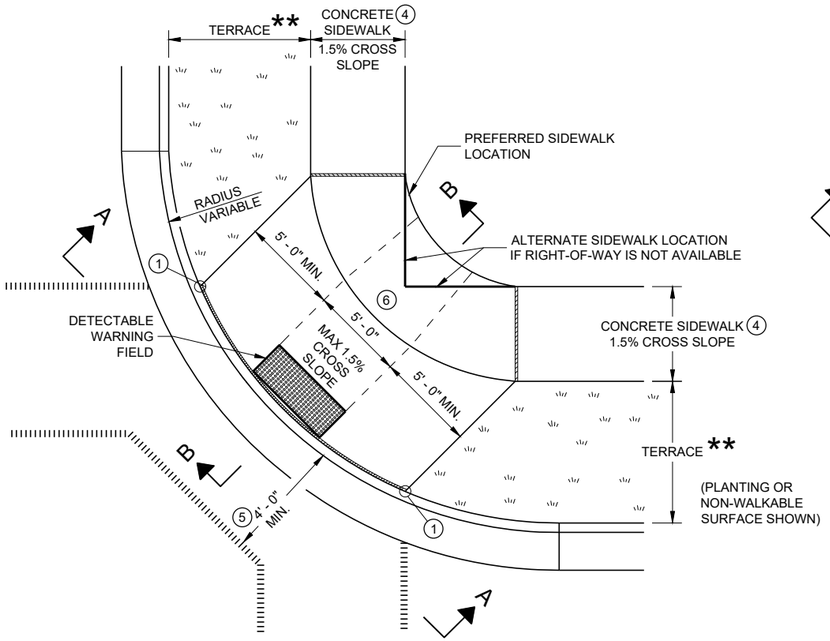
FHWA

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SDD 08D04 - 06

6

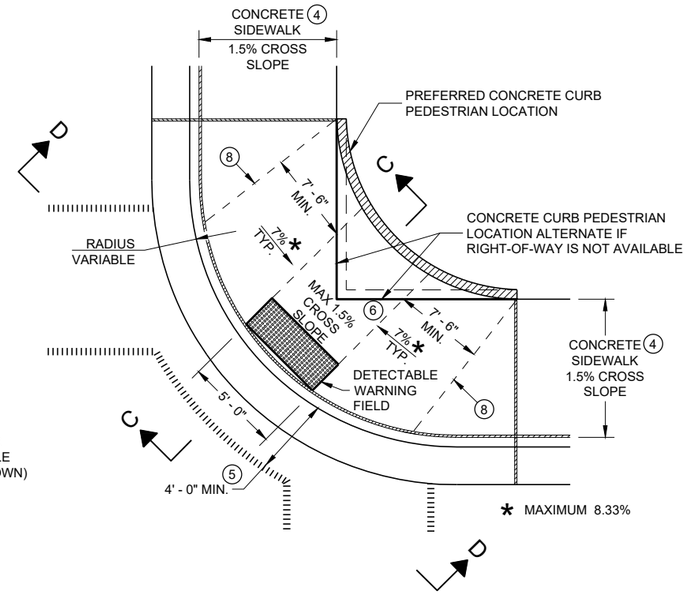
SDD 08D04 - 06



PLAN VIEW

CURB RAMP TYPE 1

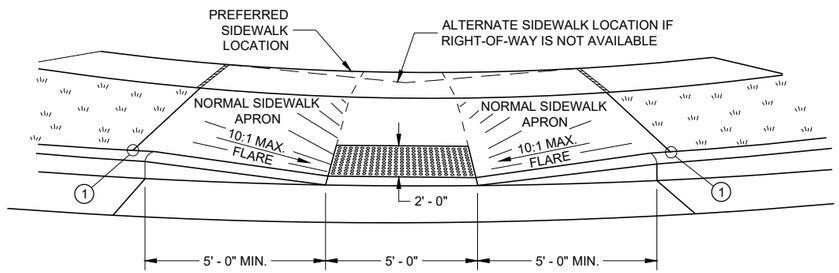
(CENTER OF CORNER RADIUS)



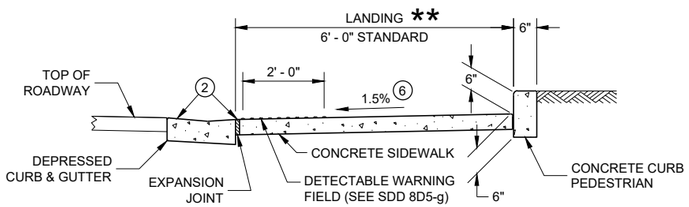
PLAN VIEW

CURB RAMP TYPE 1 - A

(NO TERRACE)

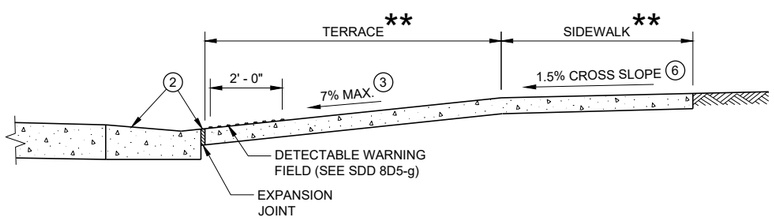


VIEW A - A FOR TYPE 1

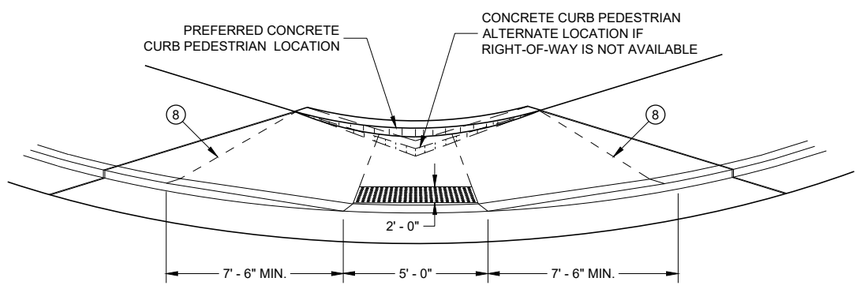


SECTION C - C FOR TYPE 1 - A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B - B FOR TYPE 1



VIEW D - D FOR TYPE 1 - A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 CURB RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FILED SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAR FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD"

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

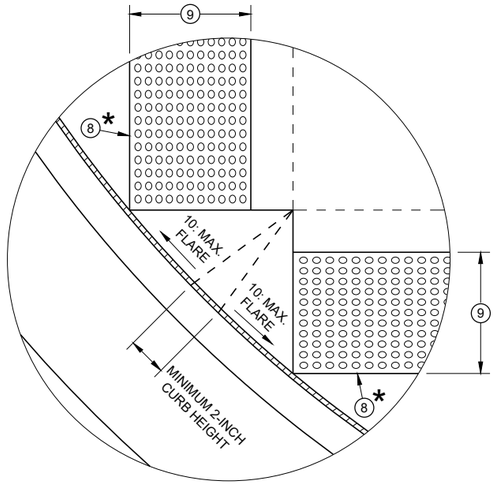
LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

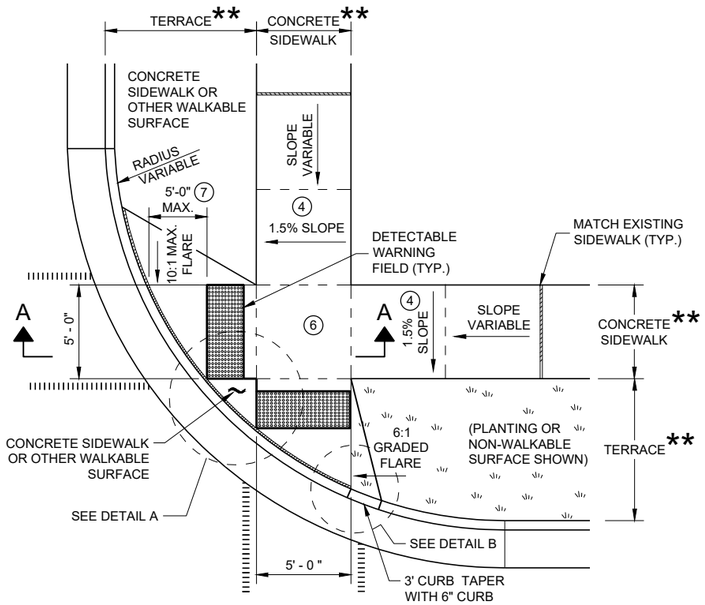
CURB RAMPS
TYPE 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 08D05 - 20a



DETAIL A



PLAN VIEW
CURB RAMP TYPE 2
(CENTER OF CORNER RADIUS)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE (2.67% OR LESS) AND NOT TO EXCEED 11% GRADE CHANGE.

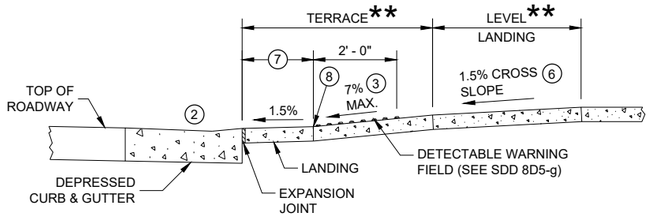
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET X 5 FEET.

(7) WHEN GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

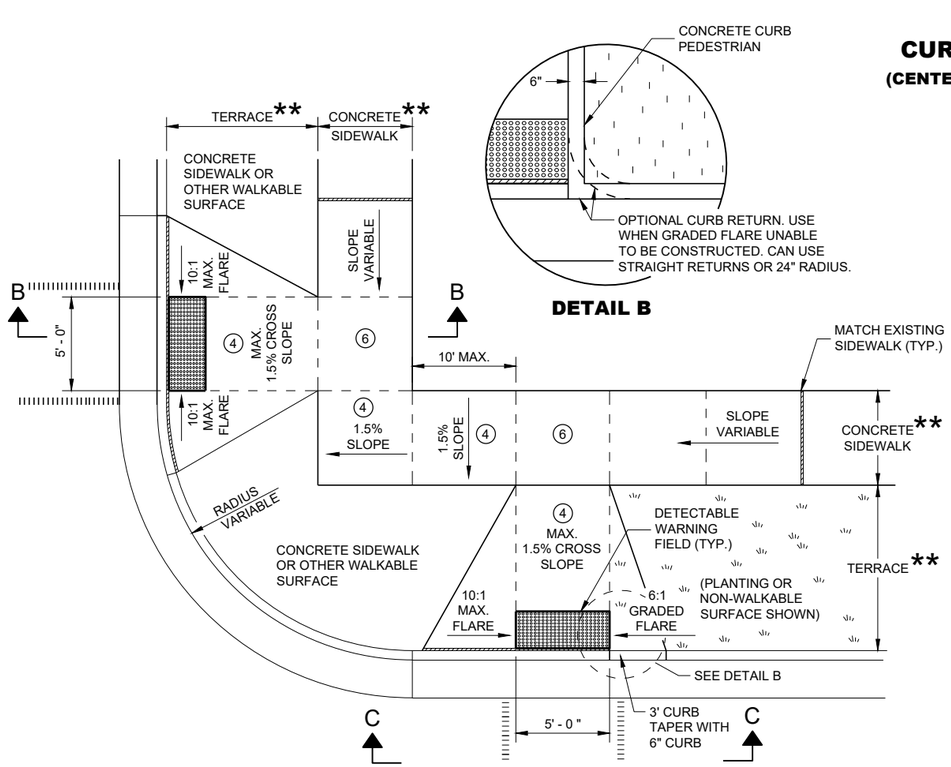
(9) WHEN DISTANCE IS LESS THAN 6' - 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.



SECTION A - A FOR TYPE 2

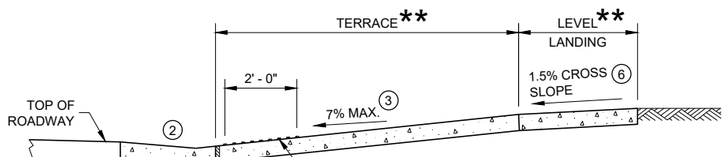
* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS



DETAIL B

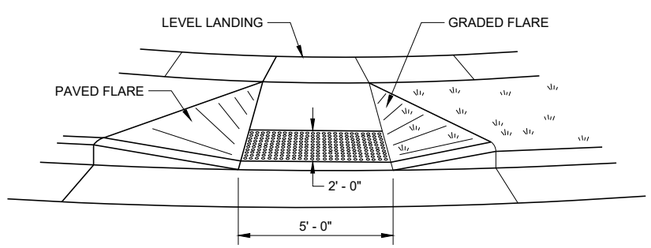
PLAN VIEW
CURB RAMP TYPE 3
(OUTSIDE OF CROSSWALK AREA)



SECTION B - B FOR TYPE 3

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)



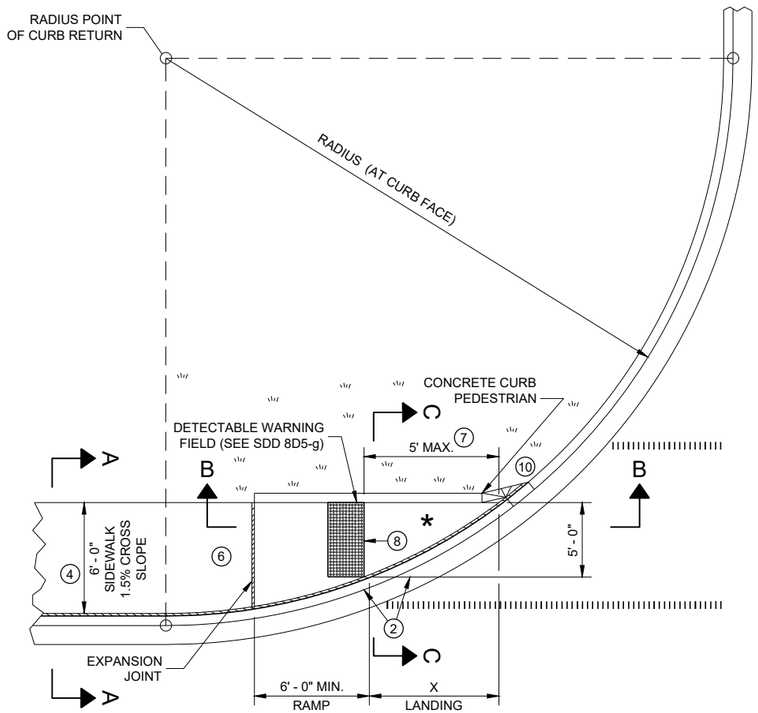
VIEW C - C FOR TYPE 3

CURB RAMPS TYPE 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 08D05 - 20b

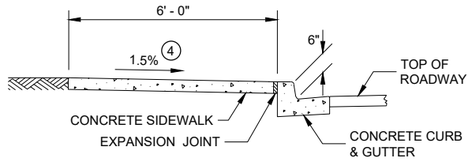


PLAN VIEW

CURB RAMP TYPE 4A

RADIUS (AT CURB FACE)	X
10 FEET	4' - 7"
15 FEET	6' - 5½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A - A FOR TYPE 4A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

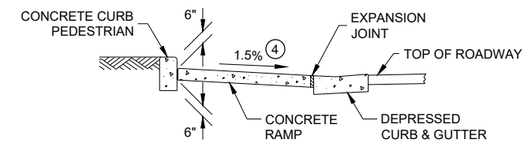
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

LEGEND

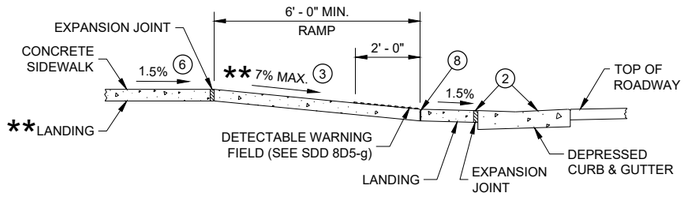
½" EXPANSION JOINT SIDEWALK

CONTRACTION JOINT SIDEWALK

PAVEMENT MARKING CROSSWALK (WHITE)



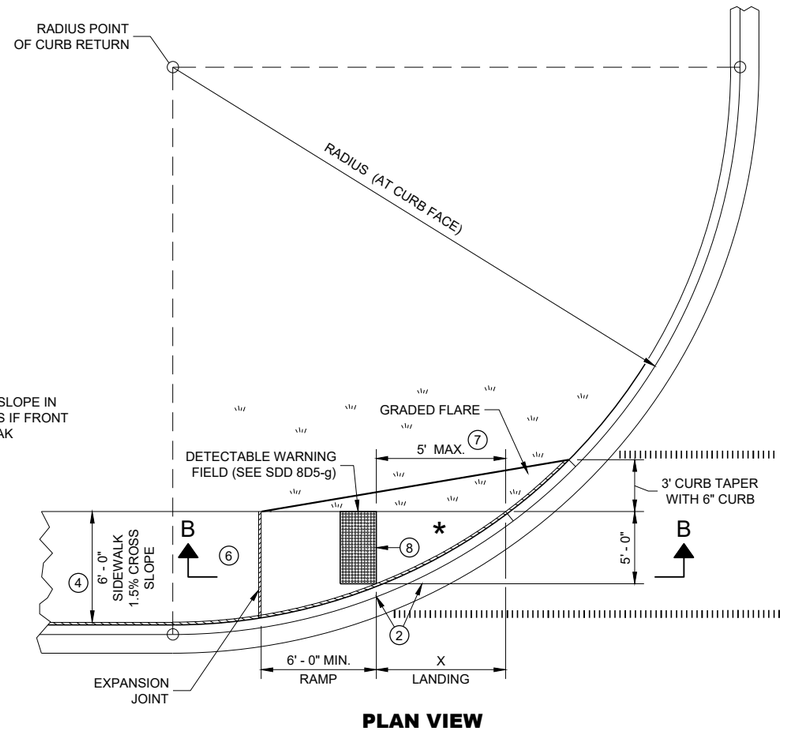
SECTION C - C FOR TYPE 4A



SECTION B - B FOR TYPE 4A AND TYPE 4A1

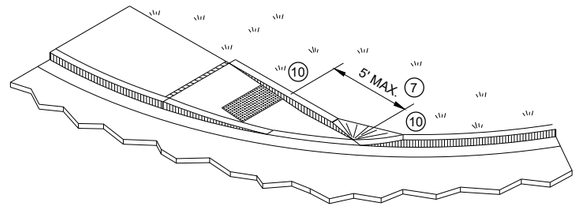
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

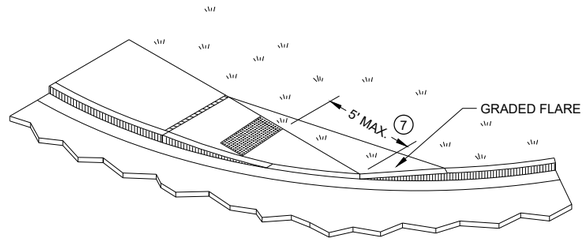


PLAN VIEW

CURB RAMP TYPE 4A1



ISOMETRIC VIEW FOR TYPE 4A



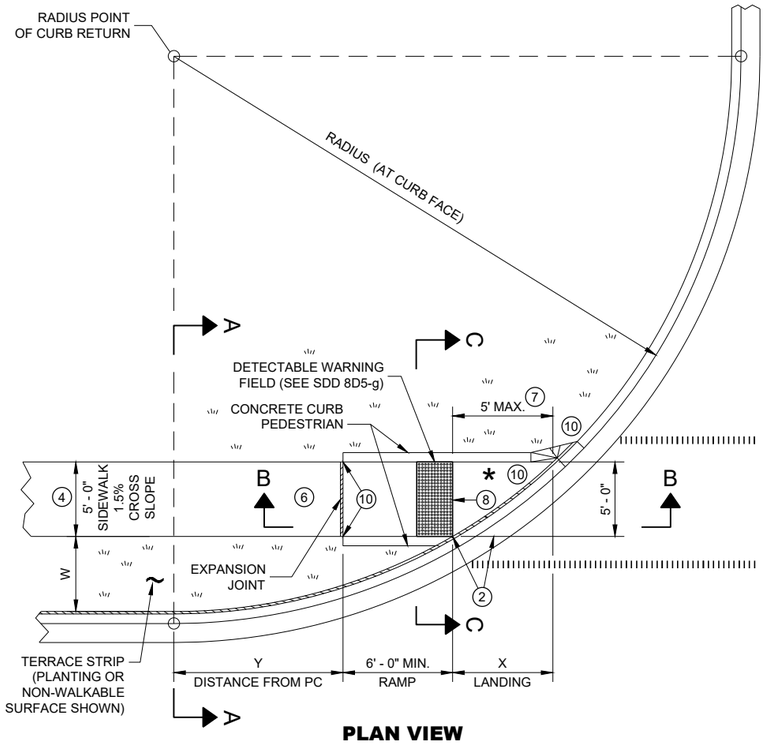
ISOMETRIC VIEW FOR TYPE 4A1

CURB RAMPS
TYPE 4A AND 4A1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 08D05 - 20c



PLAN VIEW

CURB RAMP TYPE 4B

RADIUS (AT CURB FACE)	W = 3' - 0"		W = 4' - 0"		W = 5' - 0"		W = 6' - 0"		W = 7' - 0"		W = 8' - 0"		W = 9' - 0"		W = 10' - 0"	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
10 FEET	2' - 10 ¼"	0' - 5"	2' - 1"	1' - 4 ½"	1' - 5"	2' - 1"	0' - 10"	2' - 7 ½"	0' - 3 ¼"	3' - 0 ¼"						
15 FEET	4' - 6 ¾"	2' - 1 ¾"	3' - 9"	3' - 5 ¾"	3' - 1 ¼"	4' - 6"	2' - 6 ¾"	5' - 4 ½"	2' - 1"	6' - 1"	1' - 8"	6' - 8 ½"	1' - 3 ¼"	7' - 2 ½"	0' - 10 ¾"	7' - 7 ¼"
20 FEET	5' - 9 ¾"	3' - 6 ½"	4' - 11 ½"	5' - 1 ¾"	4' - 3 ¼"	6' - 5 ½"	3' - 8 ¾"	7' - 7"	3' - 3"	8' - 6 ½"	2' - 10"	9' - 4 ½"	2' - 5 ½"	10' - 1 ¼"	2' - 1 ¼"	10' - 9"
30 FEET			6' - 9 ¼"	7' - 11 ¼"	6' - 0 ¼"	9' - 8"	5' - 5"	11' - 1 ¾"	4' - 10 ¾"	12' - 5 ¾"	4' - 5 ½"	13' - 7 ¾"	4' - 0 ¾"	14' - 8 ½"	3' - 8 ½"	15' - 8 ¼"
40 FEET									6' - 1 ¾"	15' - 8 ½"	5' - 8"	17' - 2"	5' - 3"	18' - 5 ¾"	4' - 10 ¾"	19' - 8 ¼"
50 FEET															5' - 10 ¼"	23' - 2"

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

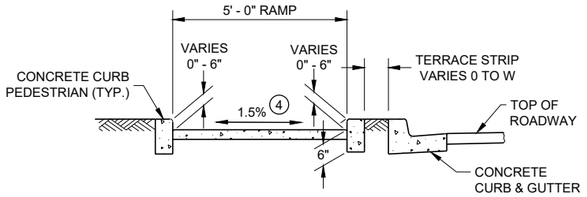
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

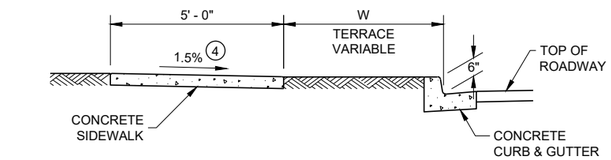
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

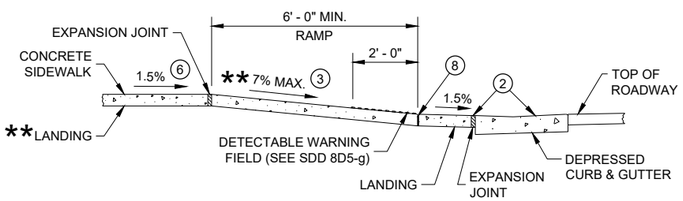
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



SECTION C - C FOR TYPE 4B

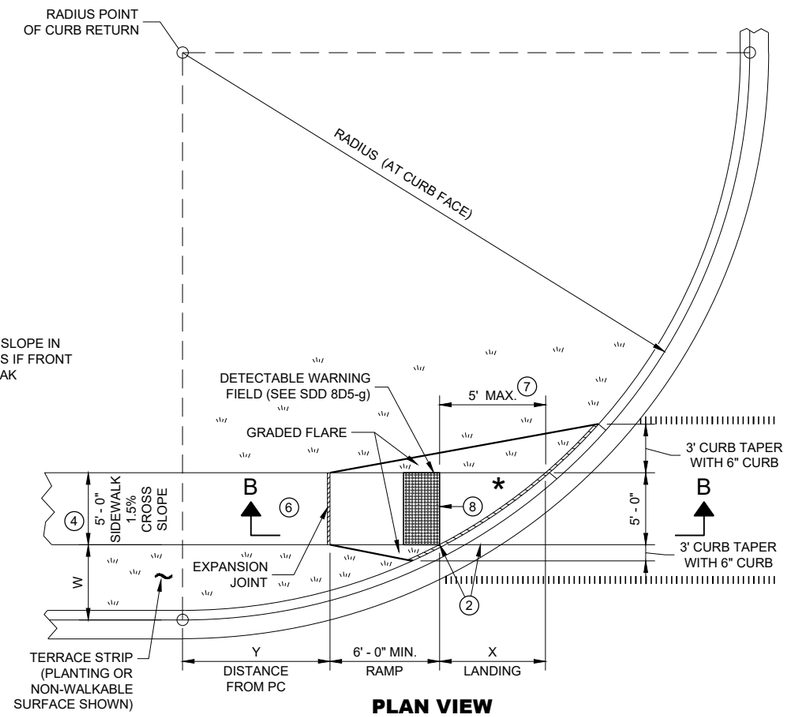


SECTION A - A FOR TYPE 4B



SECTION B - B FOR TYPE 4B AND TYPE 4B1

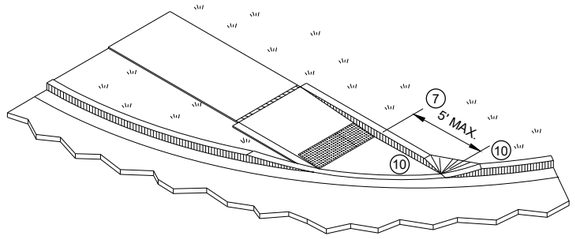
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED



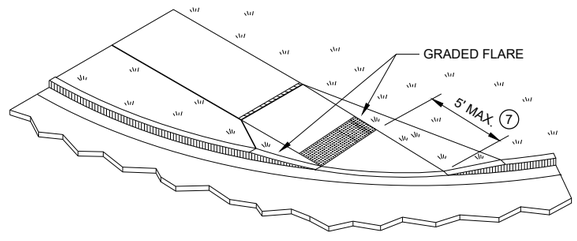
PLAN VIEW

CURB RAMP TYPE 4B1

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK



ISOMETRIC VIEW FOR TYPE 4B



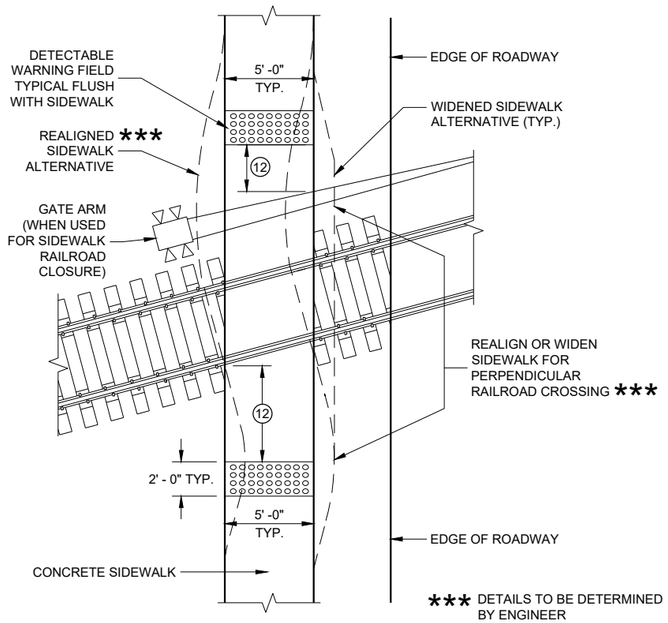
ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

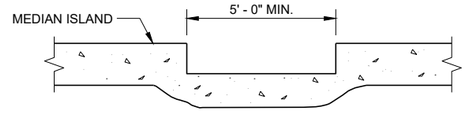
6

SDD 08D05 - 20d

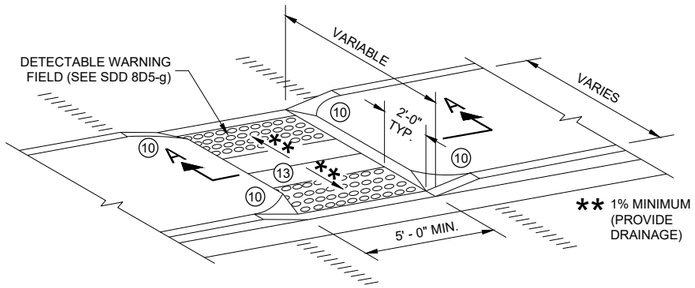


CURB RAMP TYPE 8

DETECTABLE WARNINGS AT RAILROAD CROSSING



SECTION A - A FOR TYPE 5



CURB RAMP TYPE 5

MEDIAN ISLAND NON-ELEVATED PEDESTRIAN CROSSING

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ½ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

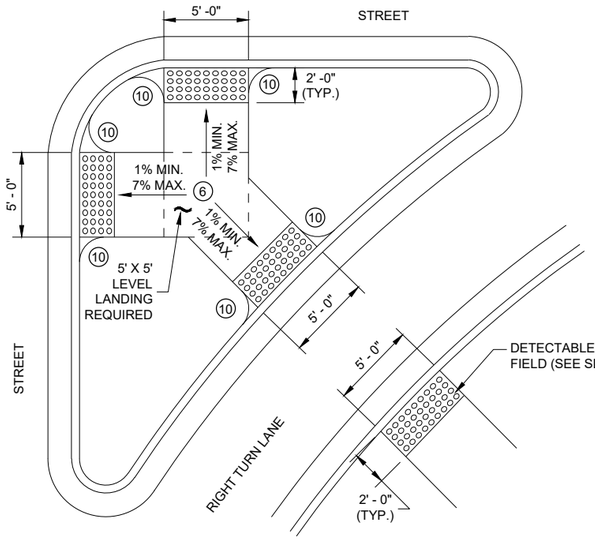
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ±0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

(13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STEET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2 FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.

LEGEND

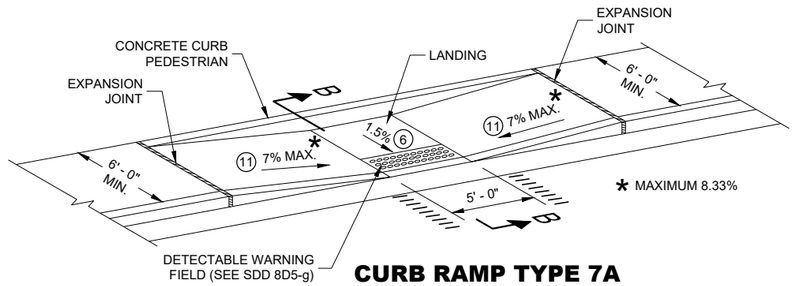
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)



CURB RAMP TYPE 6

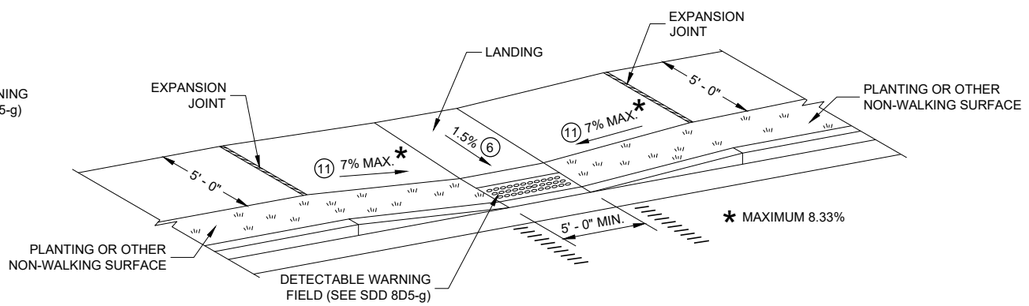
DETECTABLE WARNING AT ISLANDS

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



CURB RAMP TYPE 7A

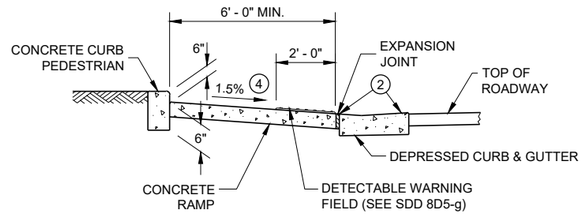
MID BLOCK CROSSING



CURB RAMP TYPE 7B

MID BLOCK CROSSING

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.



SECTION B - B FOR TYPE 7A

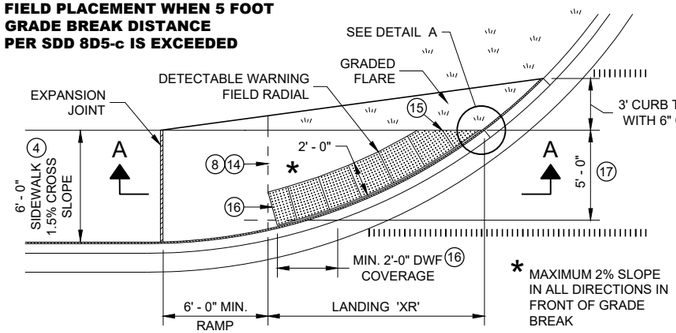
CURB RAMPS TYPE 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 08D05 - 20e

SDD 08D05 - 20e

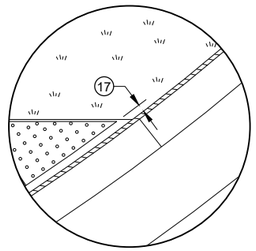
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-c IS EXCEEDED



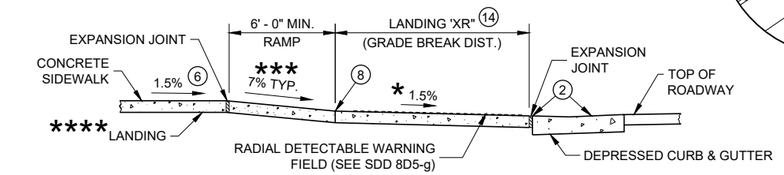
PLAN VIEW

CURB RAMP TYPE 4A1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL A

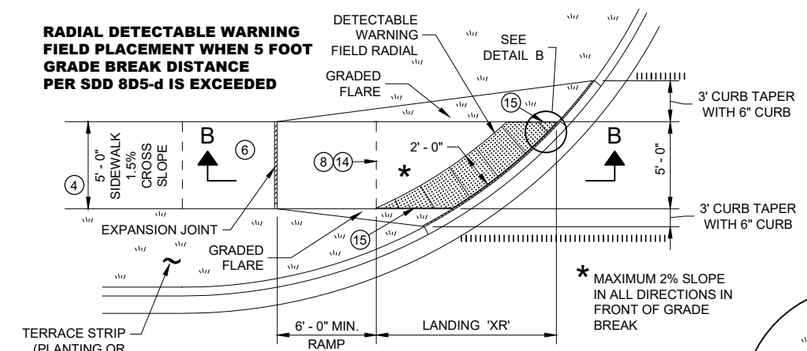


**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION A - A FOR TYPE 4A1

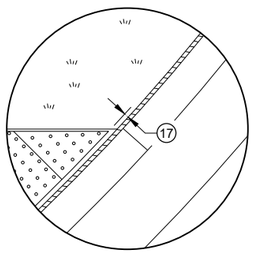
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-d IS EXCEEDED



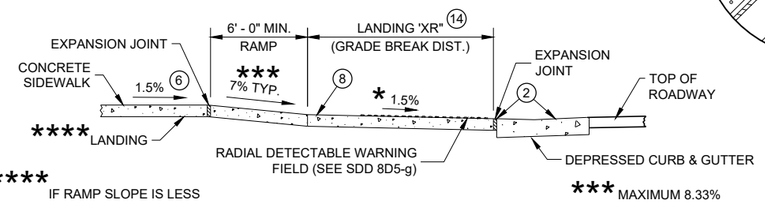
PLAN VIEW

CURB RAMP TYPE 4B1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL B



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION B - B FOR TYPE 4B1

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

APPLY RADIAL DETECTABLE WARNING PLACEMENT SIMILARLY FOR TYPE 4A AND 4A1 CURB RAMPS AND SIMILARLY FOR TYPE 4B AND 4B1 CURB RAMPS. TYPE 4A AND 4B CURB RAMPS ARE NOT SHOWN.

REFER TO SDD 8D5-g FOR ADDITIONAL RADIAL PLATE REQUIREMENTS.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AD ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET BY 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

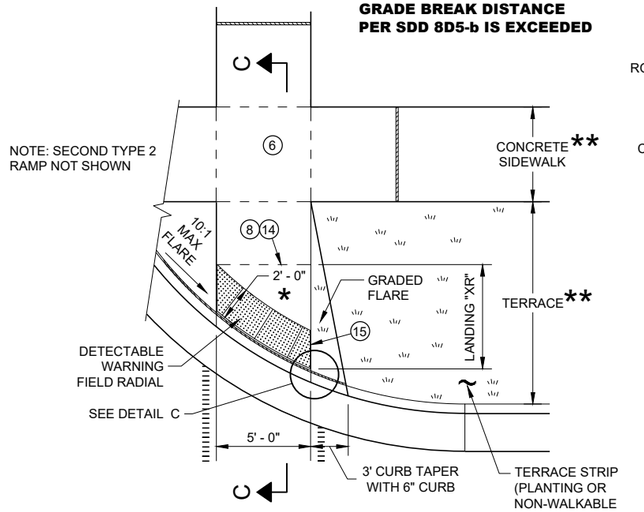
(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION "XR") REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

(16) USE 1' X 2" RECTANGULAR END PLATE AT END OF TYPE 4A1 RAMP AND PROVIDE MINIMUM 2' - 0" DETECTABLE WARNING FIELD COVERAGE (IN DIRECTION OF PEDESTRIAN TRAVEL) ALONG THE ENTIRE CURB RAMP WIDTH.

(17) A MAXIMUM 3 INCH CONCRETE BORDER WITH IS ALLOWABLE IN FROM OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.

RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-b IS EXCEEDED

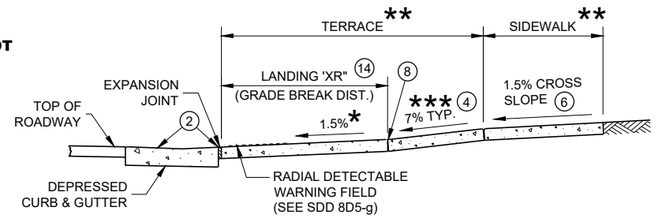


PLAN VIEW

CURB RAMP TYPE 2

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)

(ON LINE WITH SIDEWALK)

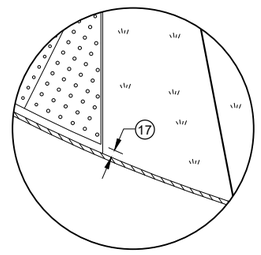


SECTION C - C FOR TYPE 2

* MAXIMUM 2% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** MAXIMUM 8.33%



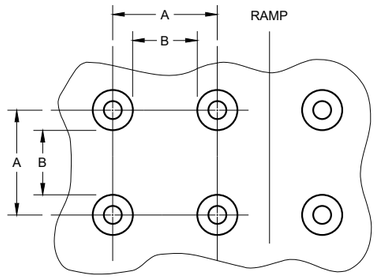
DETAIL C

CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS

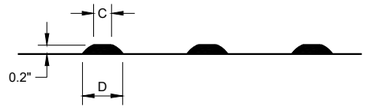
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

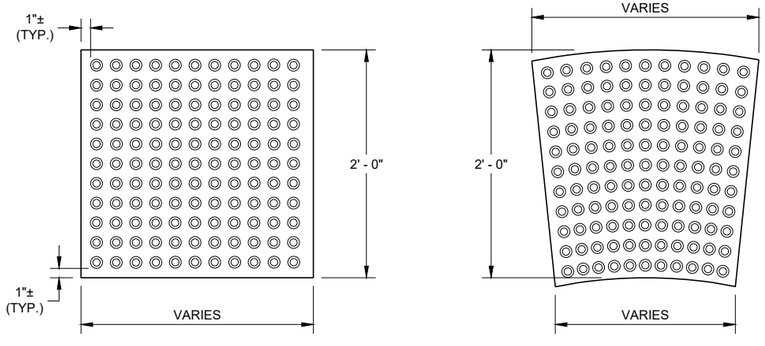


PLAN VIEW



ELEVATION VIEW

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



RECTANGULAR PLATES

RADIAL PLATES

PLAN VIEW
DETECTABLE WARNING FIELDS (TYPICAL)

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

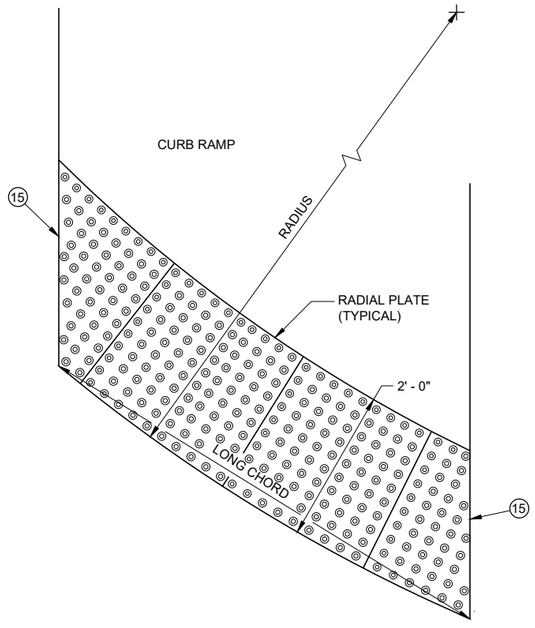
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

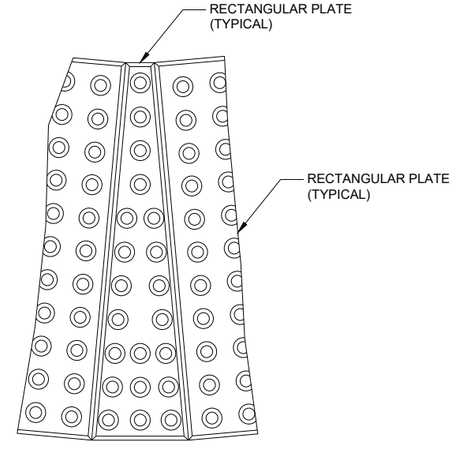
REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.



PLAN VIEW
RADIAL DETECTABLE WARNING FIELD ATTRIBUTES



PLAN VIEW
RADIAL WEDGE PLATE CONNECTION DETAIL

CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

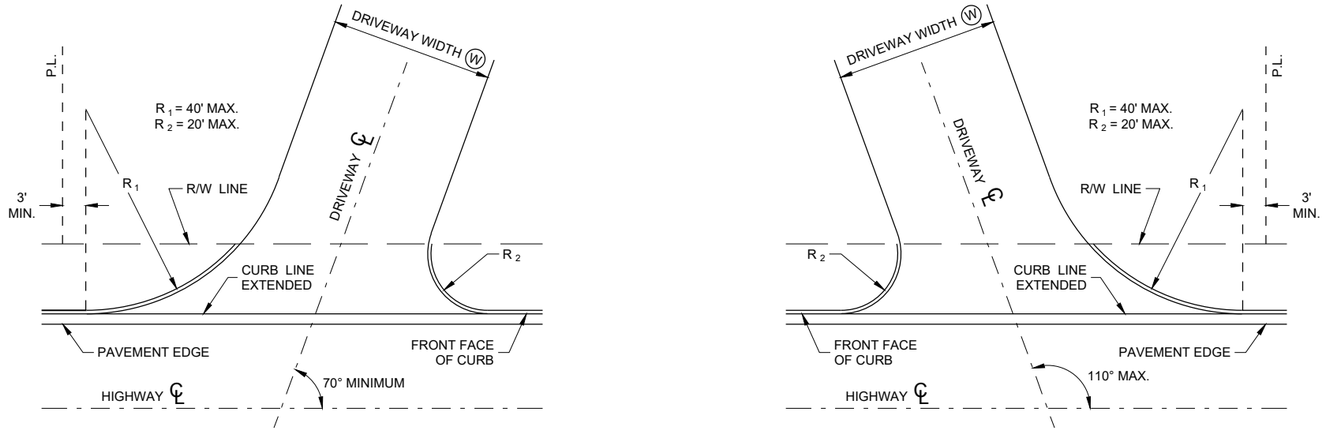
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE UNIT SUPERVISOR

FHWA

6

SDD 08D05 - 20g



SKEWED DRIVEWAY DETAILS (COMMERCIAL AND NON-COMMERCIAL)

SIDEWALK NOT SHOWN

GENERAL NOTES

A MAXIMUM RADIUS OF 10 FEET SHALL BE USED FOR NON-COMMERCIAL PRIVATE ENTRANCES. RADII FOR COMMERCIAL DRIVEWAYS SHALL BE DETERMINED BY THE ENGINEER BASED ON TRAFFIC AND DRIVEWAY PERMIT RESTRICTIONS.

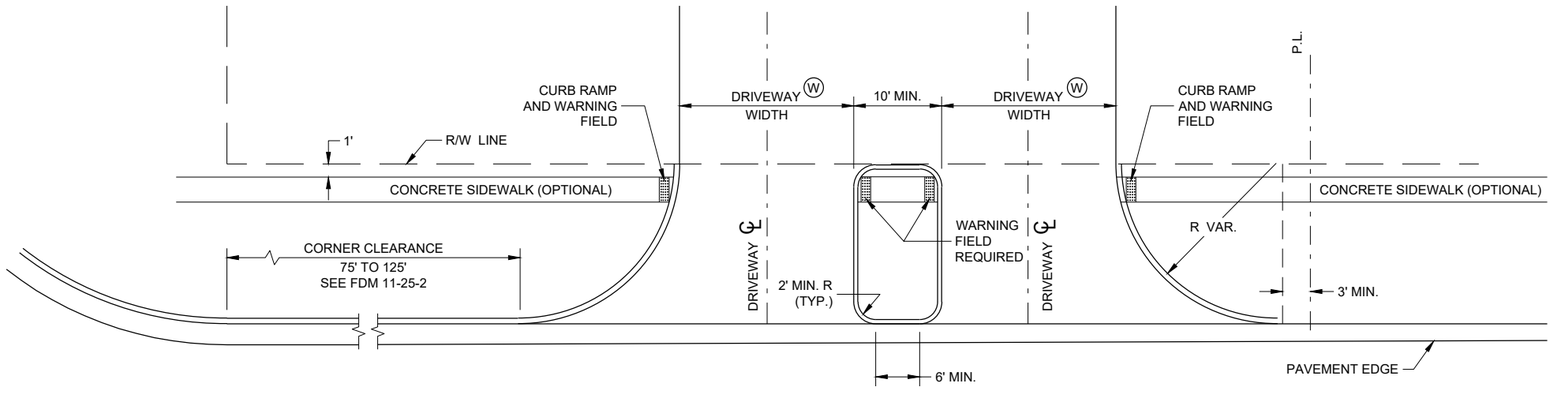
THE MINIMUM ANGLE OF INTERSECTION BETWEEN THE DRIVEWAY AND HIGHWAY CENTERLINES SHALL BE 70°.

ALL CURVILINEAR PRIVATE ENTRANCE OUTLINES SHALL BE CONTAINED WITHIN THE HIGHWAY R/W.

NO DRIVEWAY SHALL BE BUILT WITHIN 3 FEET OF THE PROPERTY LINE EXCEPT FOR EXISTING JOINT DRIVEWAY SHARED BY TWO OWNERS.

(W): 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE)

16' MIN. - 35' MAX. COMMERCIAL (CE)



DRIVEWAY LOCATION AND SPACING DETAILS

SIDEWALK SHOWN

DRIVEWAYS WITH CURB AND GUTTER RETURNS

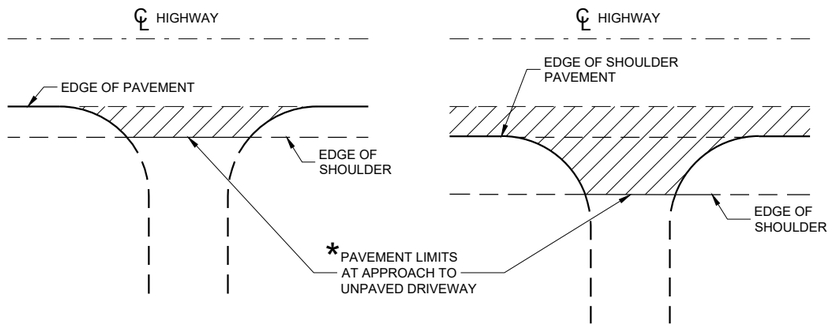
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
00-00-00 DATE
/S/ <AUTHOR> ROADWAY STANDARDS DEVE ENGINEER

FHWA

SDD 08D20 - 01

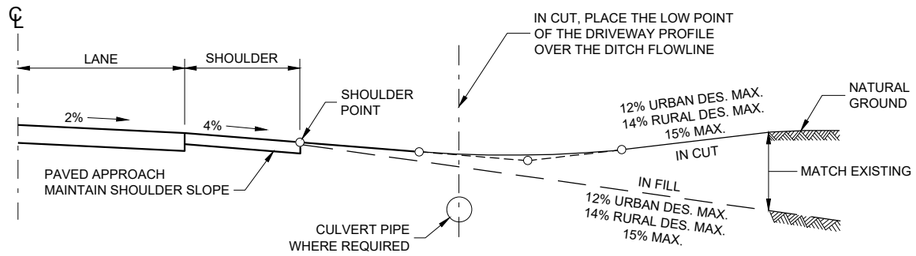
SDD 08D20 - 01



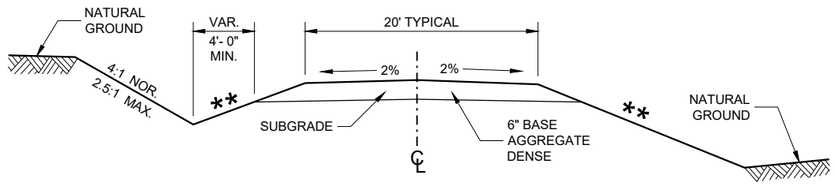
PLAN VIEW
(UNPAVED SHOULDER ON HIGHWAY)

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

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



TYPICAL DRIVEWAY PROFILES

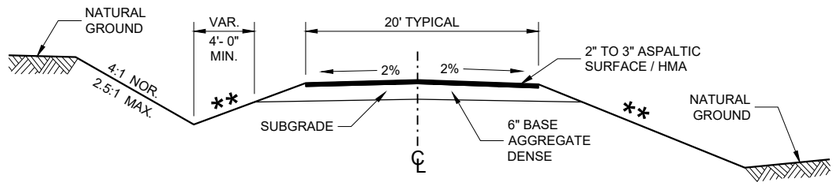


IN CUT **IN FILL**

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE AGGREGATE SURFACE

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

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



IN CUT **IN FILL**

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE ASPHALTIC SURFACE

6

6

SDD 08D21 - 01

SDD 08D21 - 01

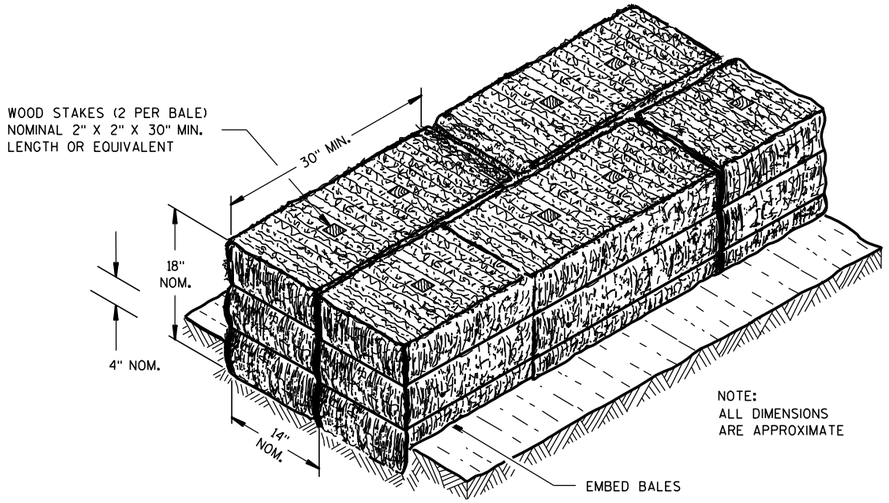
DRIVEWAYS WITHOUT CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

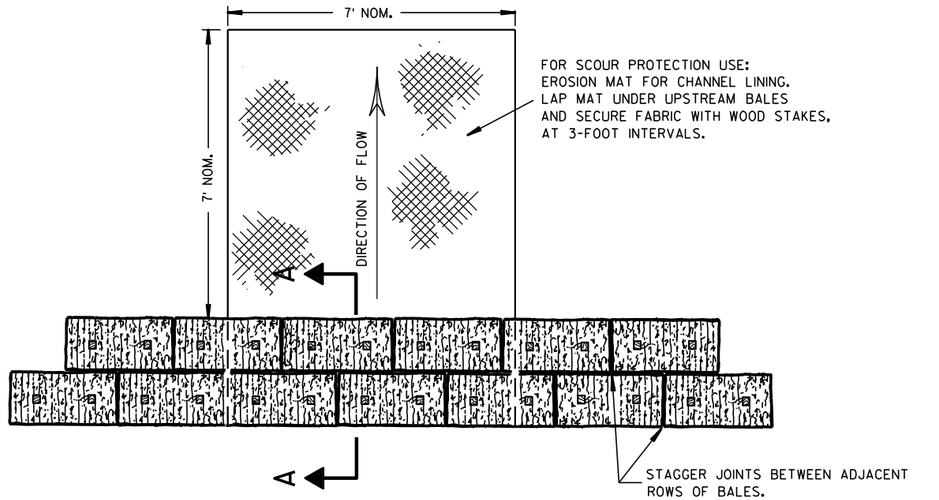
APPROVED
December 2017
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
UNIT SUPERVISOR

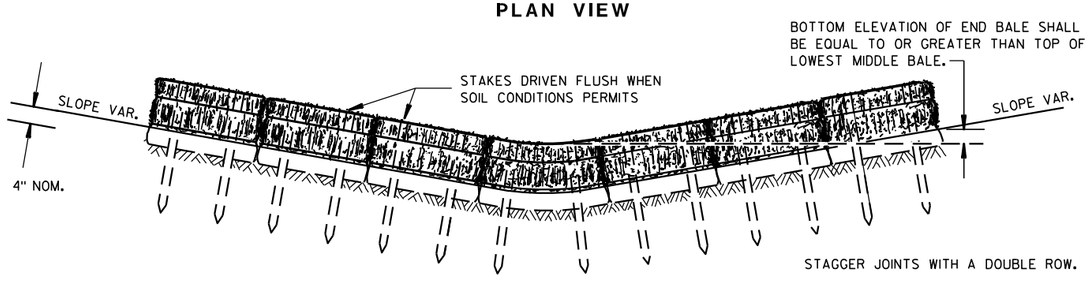
FHWA



SECTION A-A



PLAN VIEW



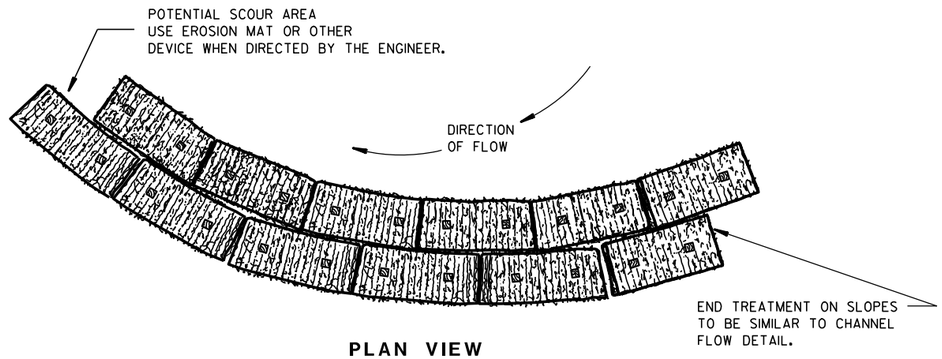
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

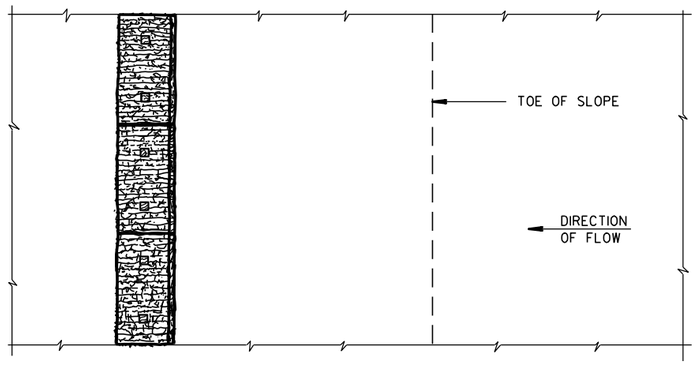
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(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.

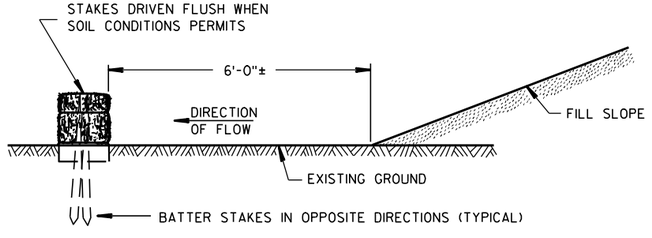


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

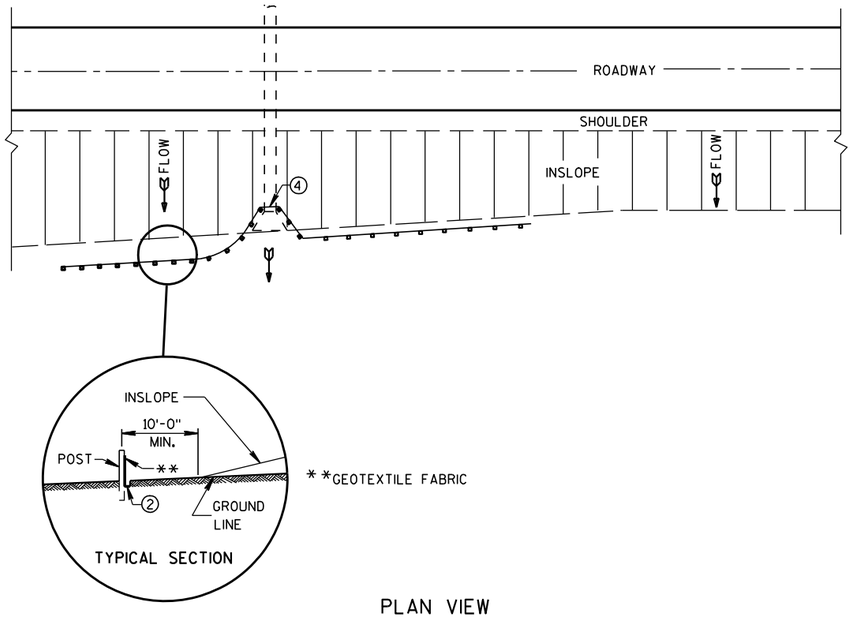
WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

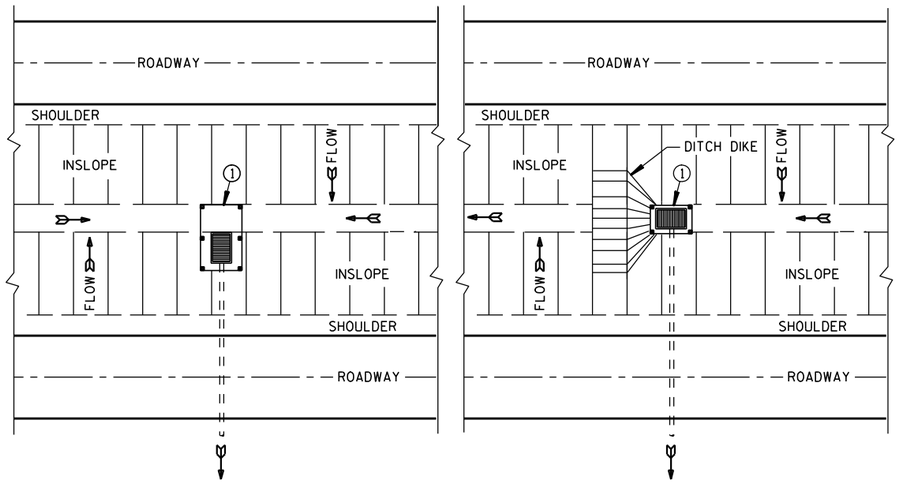
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



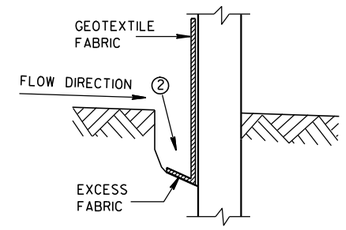
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

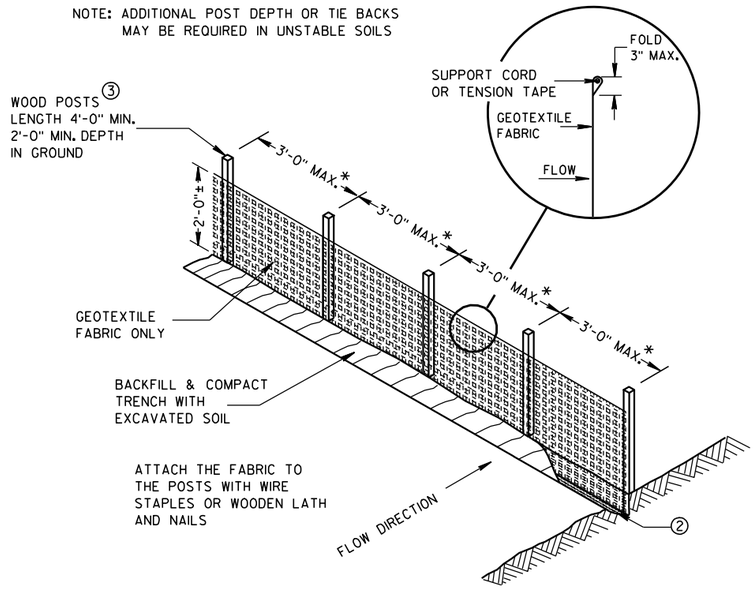
GENERAL NOTES

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.

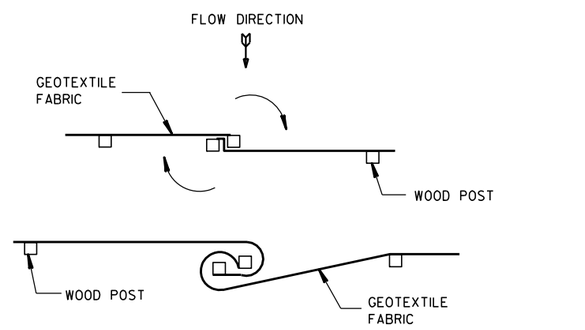


TRENCH DETAIL

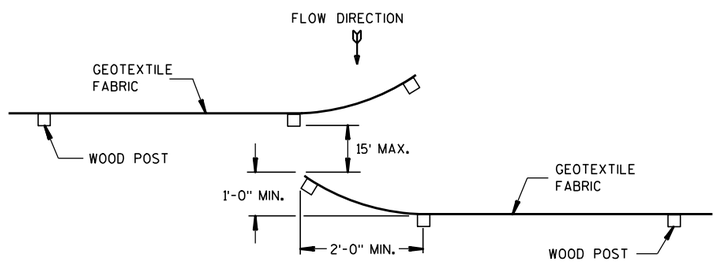


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE

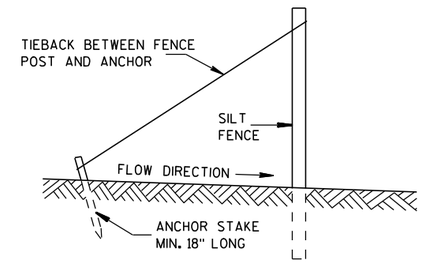


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

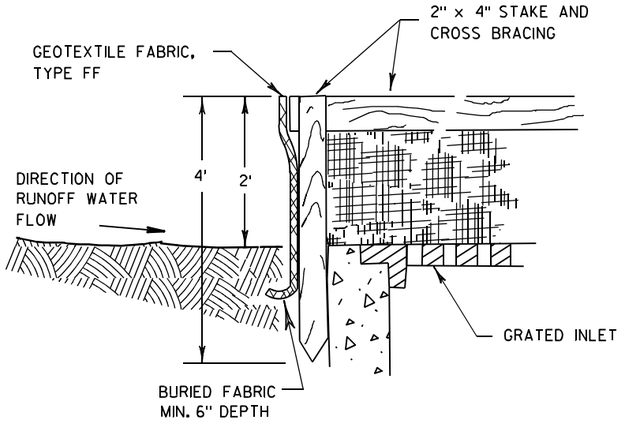
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

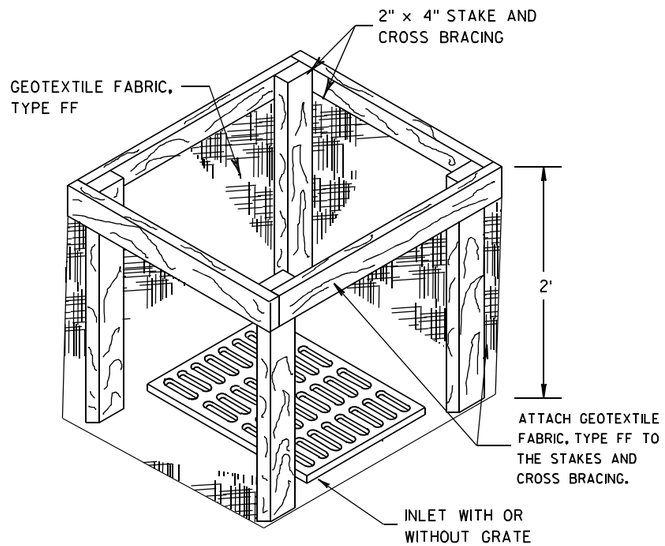
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S.D.D. 8 E 9-6

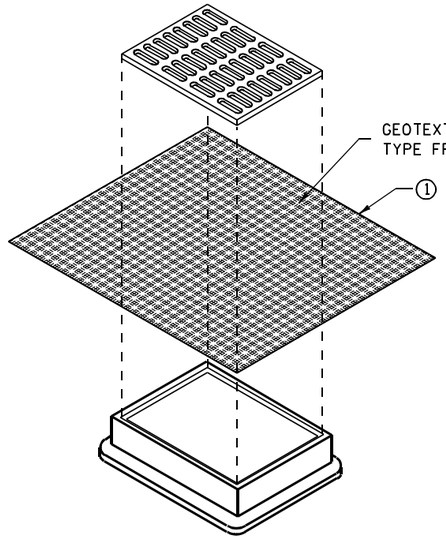
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S.D.D. 8 E 9-6



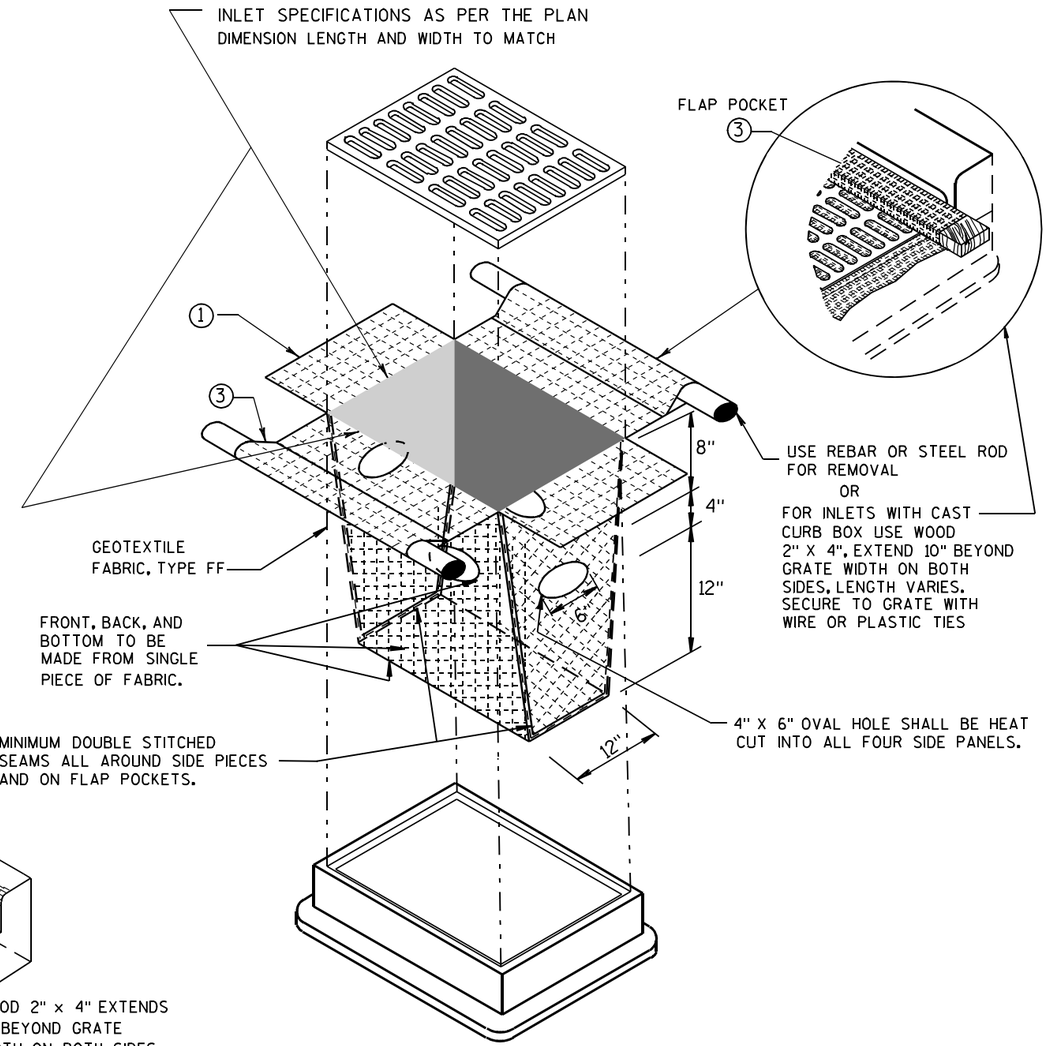


INLET PROTECTION, TYPE A



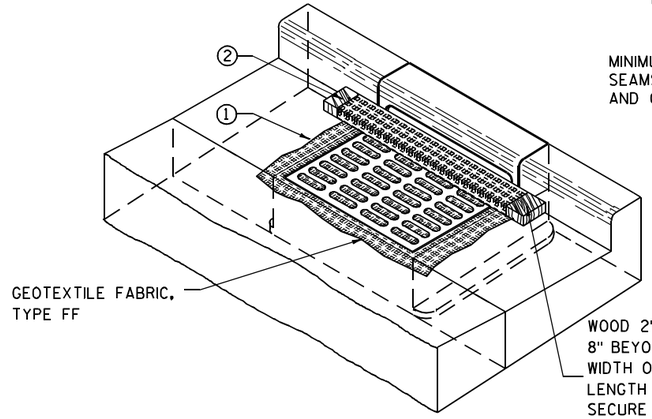
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

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



INLET PROTECTION, TYPE D

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



INLET PROTECTION, TYPE C (WITH CURB BOX)

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.

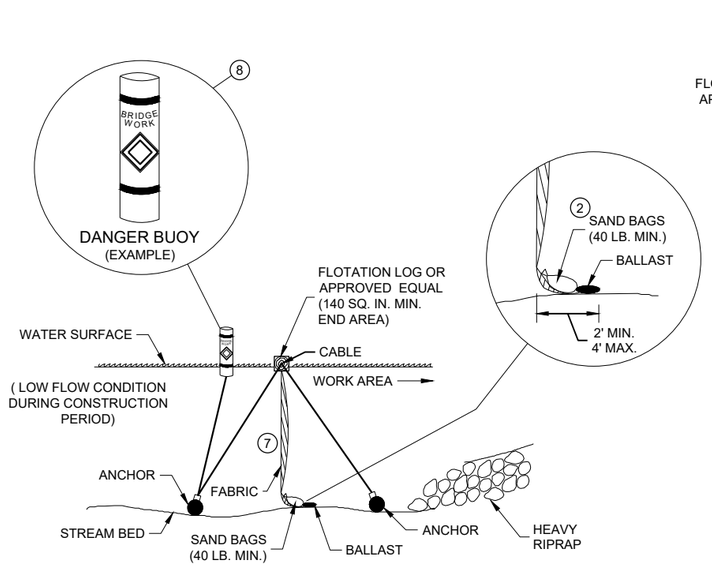
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE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

INLET PROTECTION
TYPE A, B, C, AND D

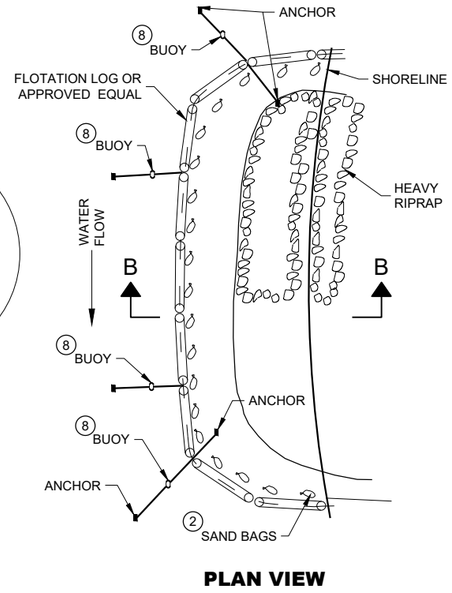
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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

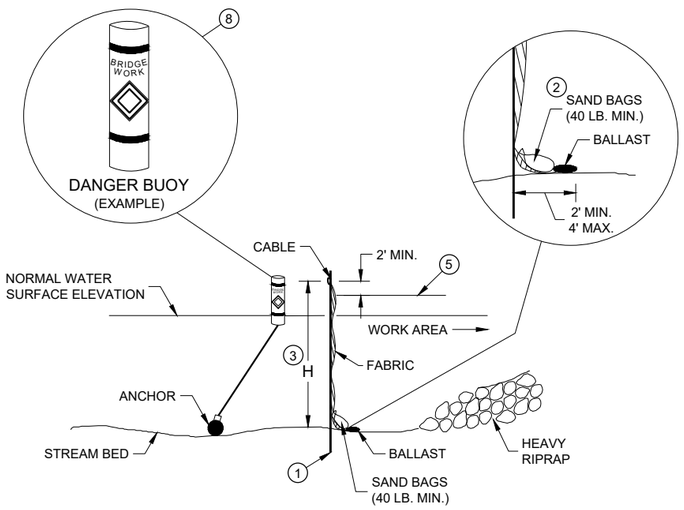


SECTION B - B

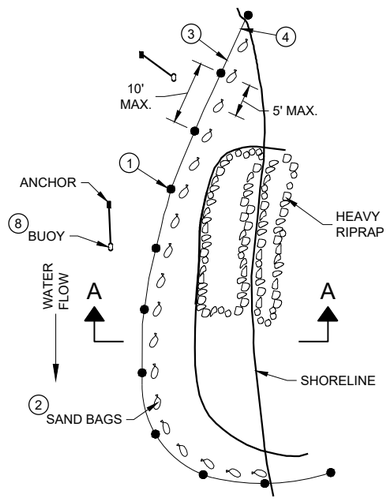


PLAN VIEW

TURBIDITY BARRIER - FLOAT ALTERNATIVE
CAUTION - SEE NOTE 6



SECTION A - A



PLAN VIEW

TURBIDITY BARRIER - STANDARD POST INSTALLATION

TURBIDITY BARRIER PLACEMENT DETAILS

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.

TURBIDITY BARRIER MAY BE REMOVED AT THE ENGINEERS DISCRETION, WHEN PERMANENT EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED.

(1) DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH WATER ELEVATIONS.

(2) SAND BAGS TO BE USED AS ADDITIONAL BALLAST WHEN ORDERED BY THE ENGINEER TO MEET ADVERSE FIELD CONDITIONS. SPACE AS APPROPRIATE FOR SITE CONDITIONS.

(3) WHEN BARRIER HEIGHT "H" EXCEEDS 8 FEET, POST SPACING MAY NEED TO BE DECREASED.

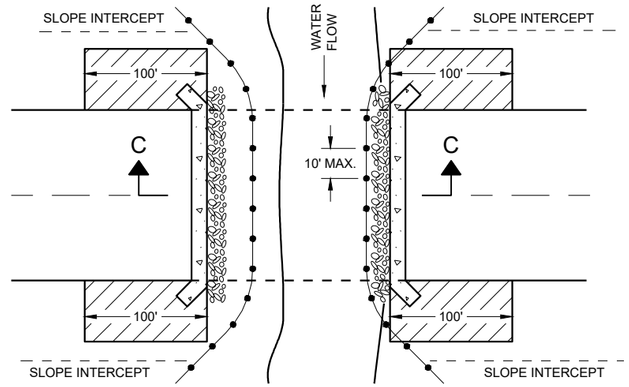
(4) IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON THE UPSTREAM END.

(5) ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MINIMUM BARRIER HEIGHT SHALL BE 2' GREATER THAN EITHER THE Q2 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WHICHEVER IS GREATER.

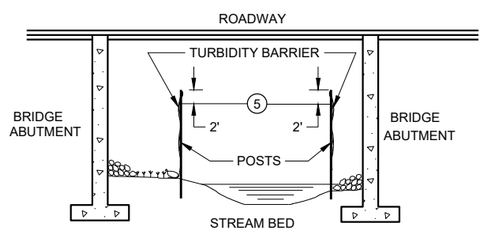
(6) FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BEDROCK PREVENTS THE INSTALLATION OF POSTS.

(7) ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.

(8) USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.



PLAN VIEW



SECTION C - C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

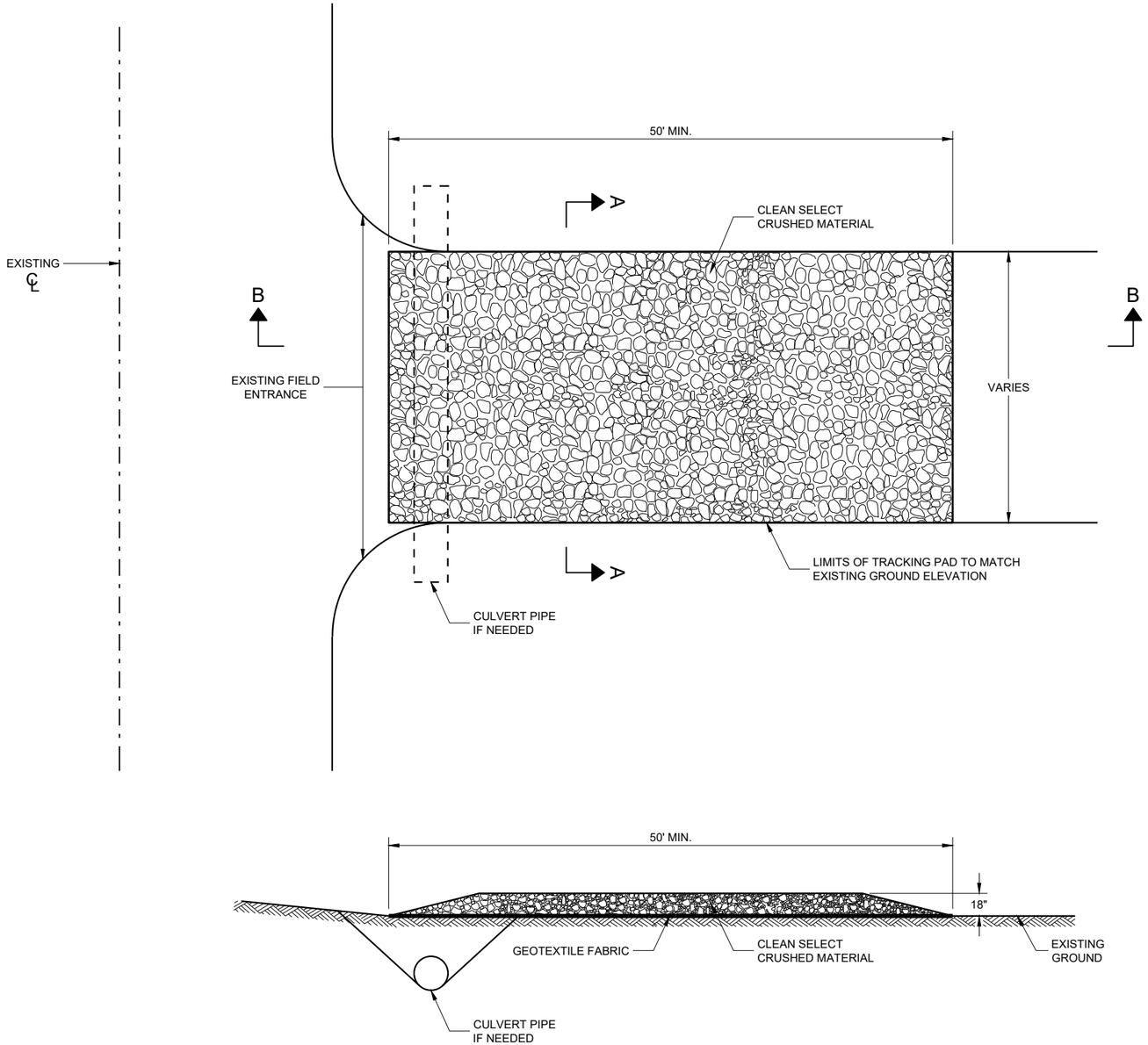
TURBIDITY BARRIER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/4/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

6
SDD 08E11 - 02



SECTION B - B

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.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

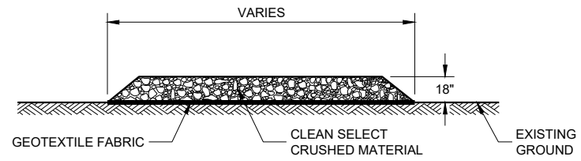
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A - A

6

SDD 08E14 - 01

TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

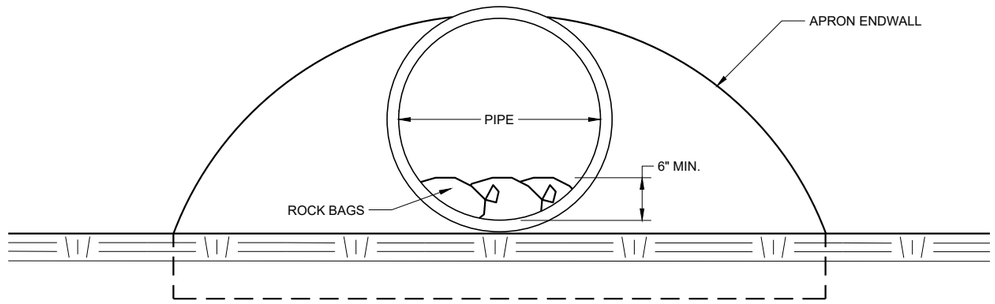
3/24/2011
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVE ENGINEER

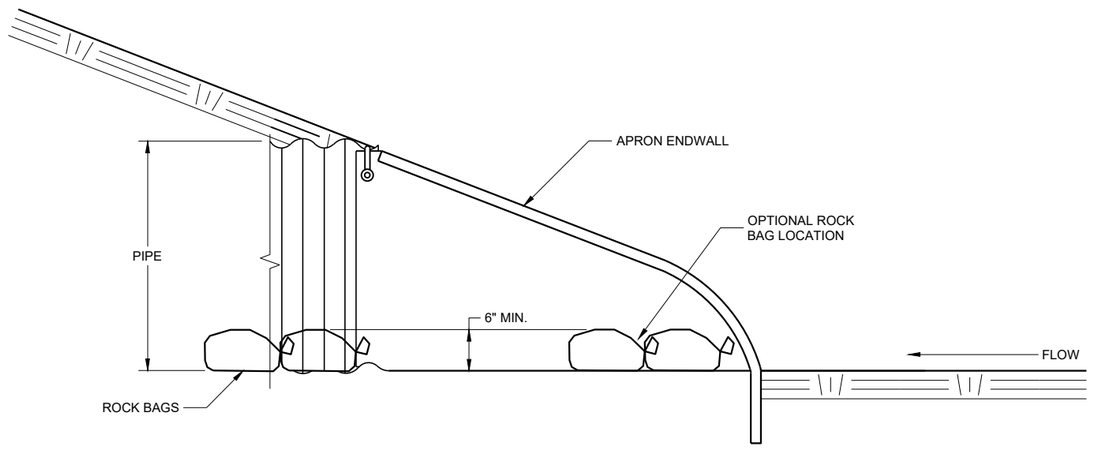
FHWA

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SDD 08E14 - 01



END VIEW



SIDE VIEW

CULVERT PIPE CHECK

(INSTALL ON INLET END ONLY)

CULVERT PIPE CHECK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

/S/ Daniel Schave
EROSION CONTROL ENGI

FHWA

6

SDD 08E15 - 01

6

SDD 08E15 - 01

METAL APRON ENDWALLS

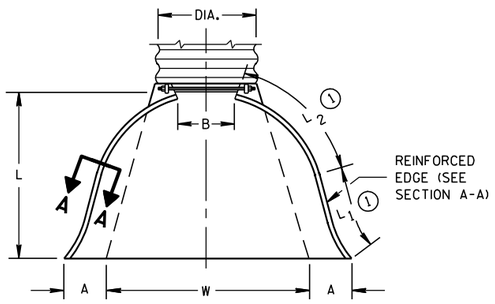
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	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

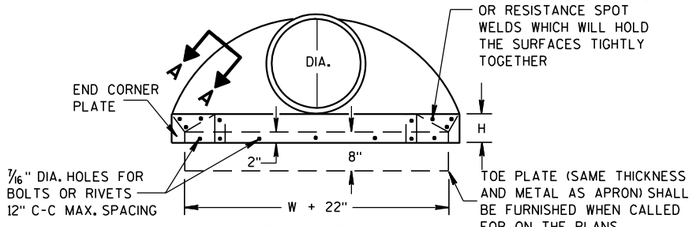
REINFORCED CONCRETE APRON ENDWALLS

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

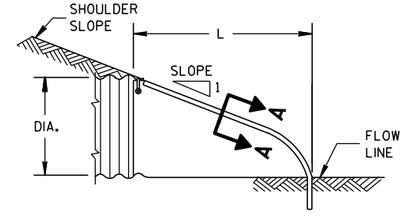
*MINIMUM
**MAXIMUM



PLAN VIEW

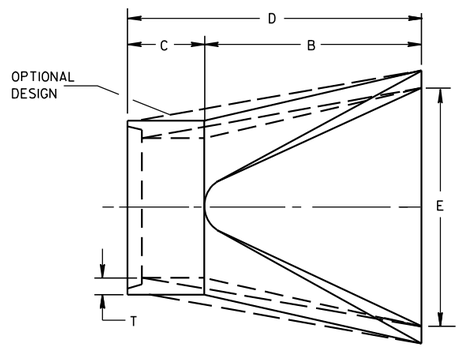


END VIEW

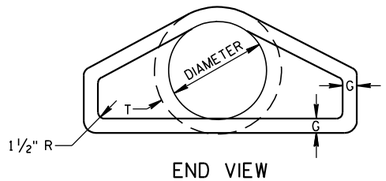


SIDE ELEVATION

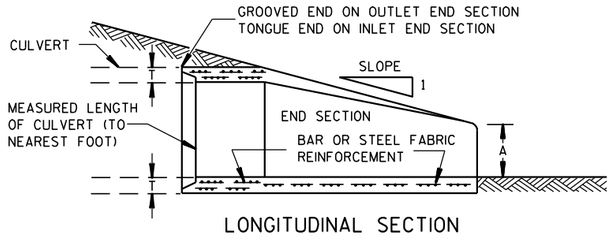
METAL ENDWALLS



PLAN

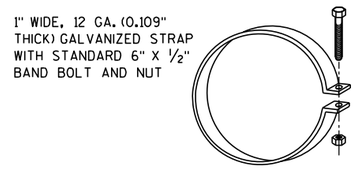


END VIEW



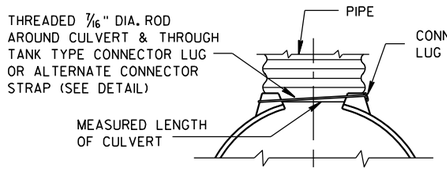
LONGITUDINAL SECTION

CONCRETE ENDWALLS

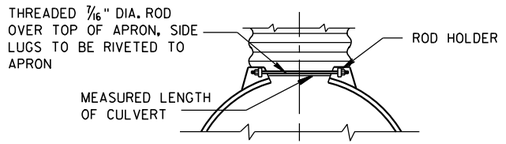


ALTERNATE FOR TYPE 1 CONNECTION

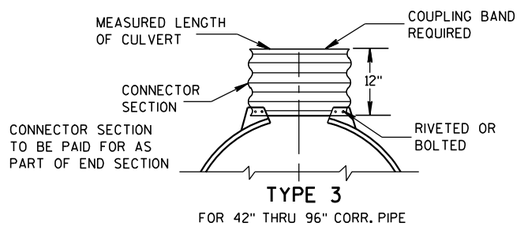
END SECTION CONNECTOR STRAP



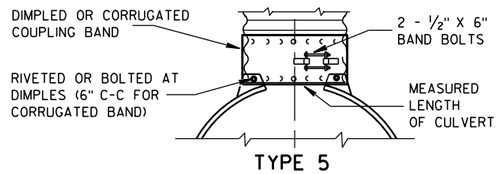
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

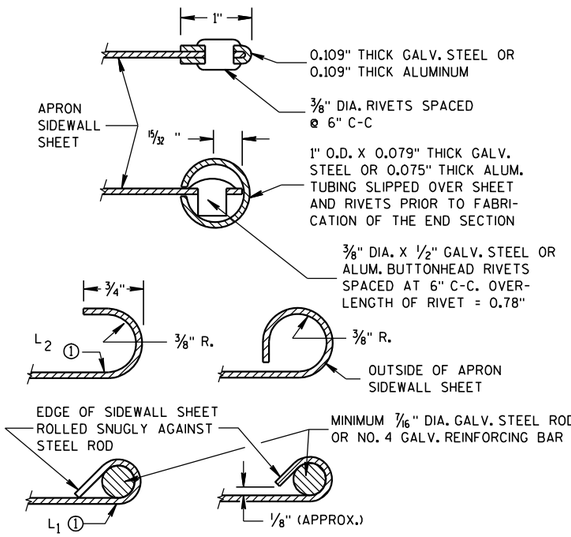
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

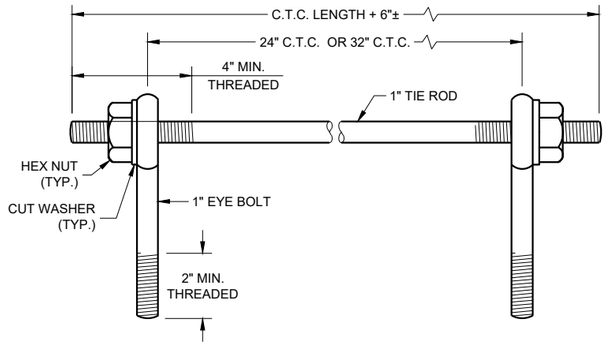
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

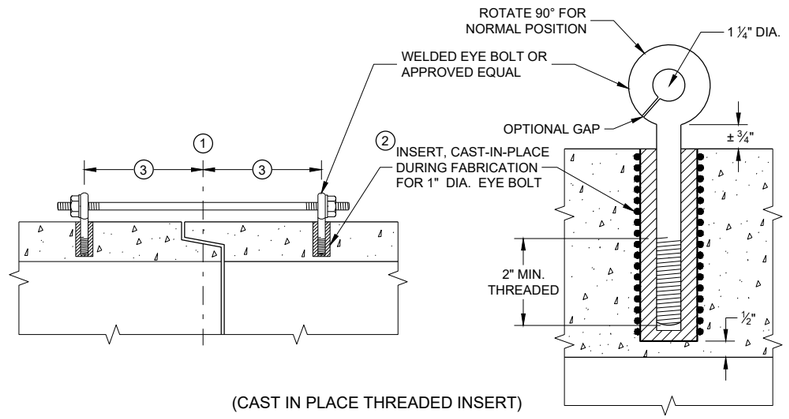
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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) CENTER LINE 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.

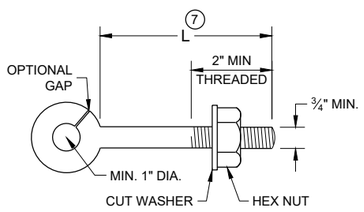
(3) HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.

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

(5) OPENING TO BE ROD DIAMETER PLUS 1 INCH.

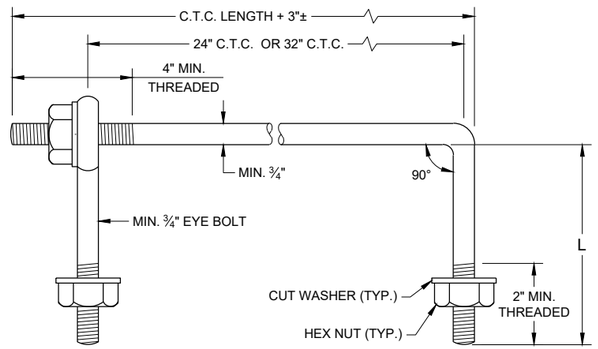
(6) LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.

(7) EYE BOLT LENGTH DETERMINED BY WALL THICKNESS, BELL THICKNESS AND BOLT PROJECTION INSIDE PIPE.

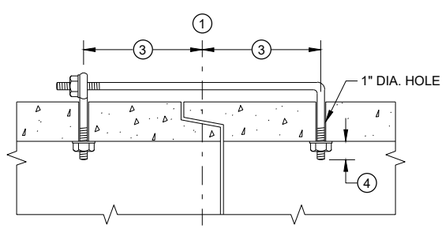


EYE BOLT (7)

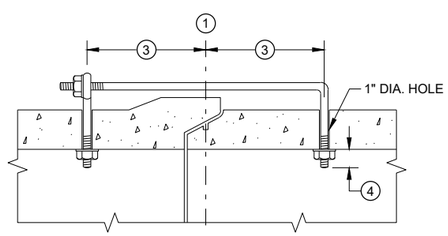
NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" OR 38" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD



(TONGUE AND GROOVE PIPE)



(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

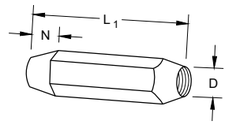
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

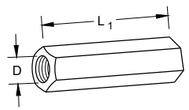
ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12 - 60	⅝	⅝	5	½
66 - 84	¾	¾	5	½
90 - 144	1	1	7	1 7/16

DIMENSIONS SHOWN ARE IN INCHES



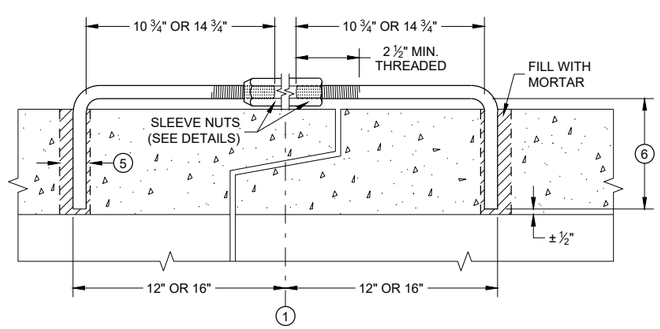
TAPERED



PLAIN

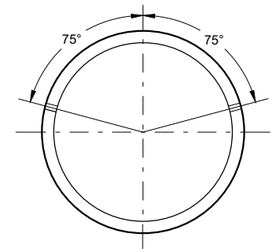
RIGHT AND LEFT THREADS

SLEEVE NUTS



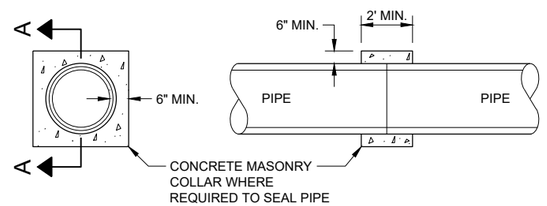
LONGITUDINAL SECTION

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

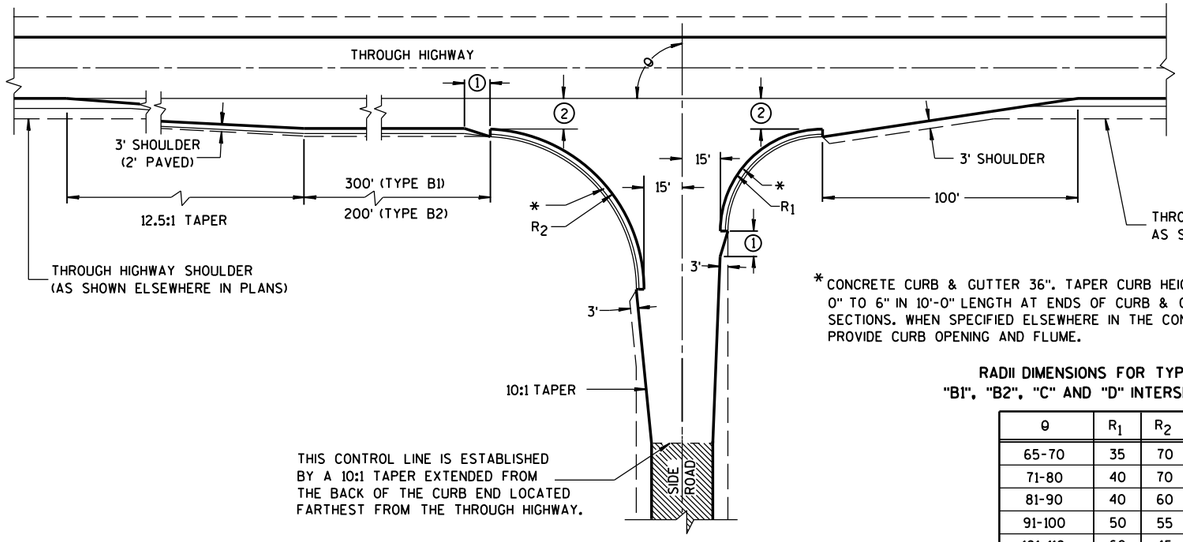
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2021 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER

FHWA

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SDD 08F04 - 08

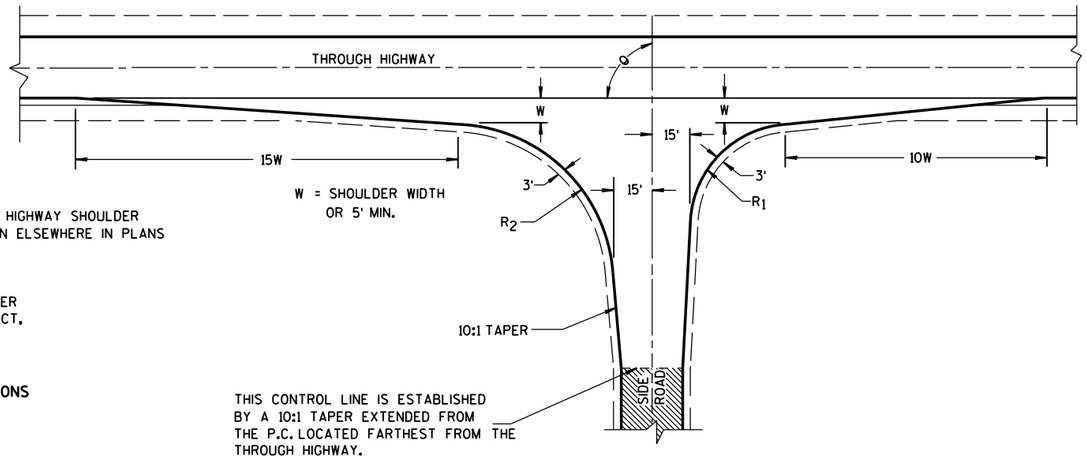


TYPE "B1" AND "B2"

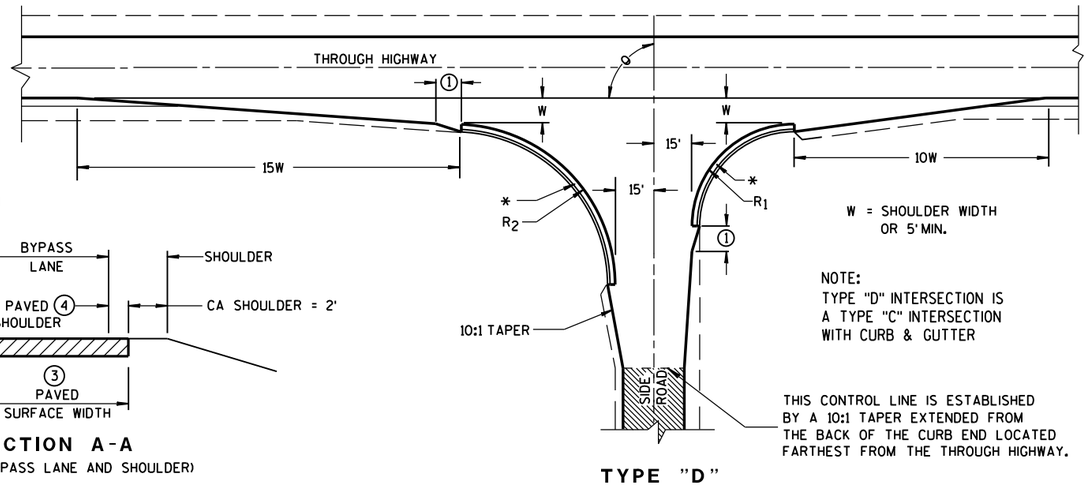
*CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

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

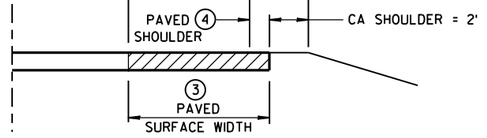
(1) 10-FT TYPICAL.

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

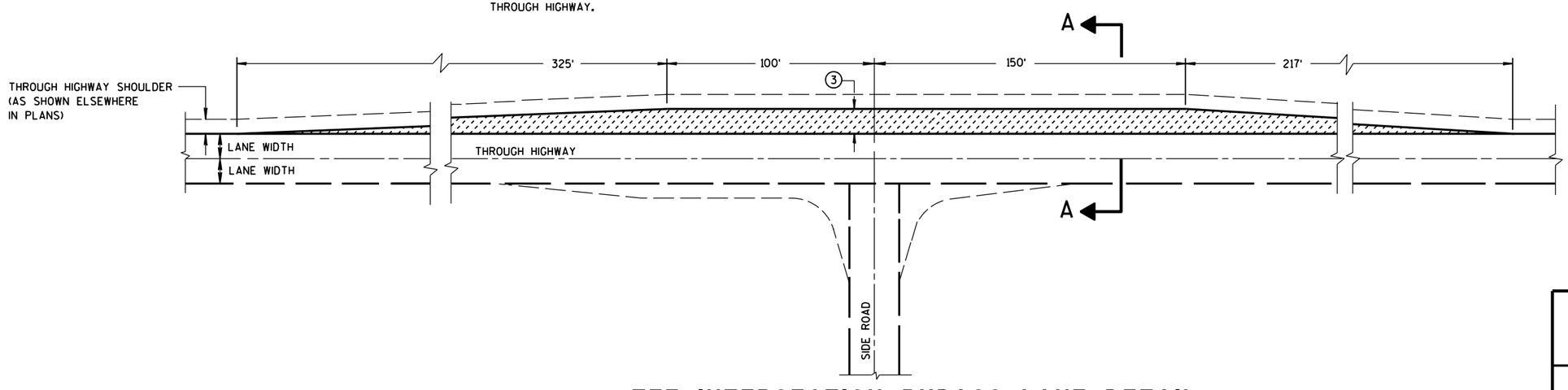
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.

(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)



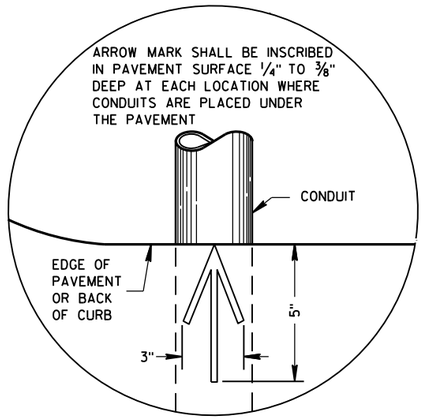
TEE INTERSECTION BYPASS LANE DETAIL

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

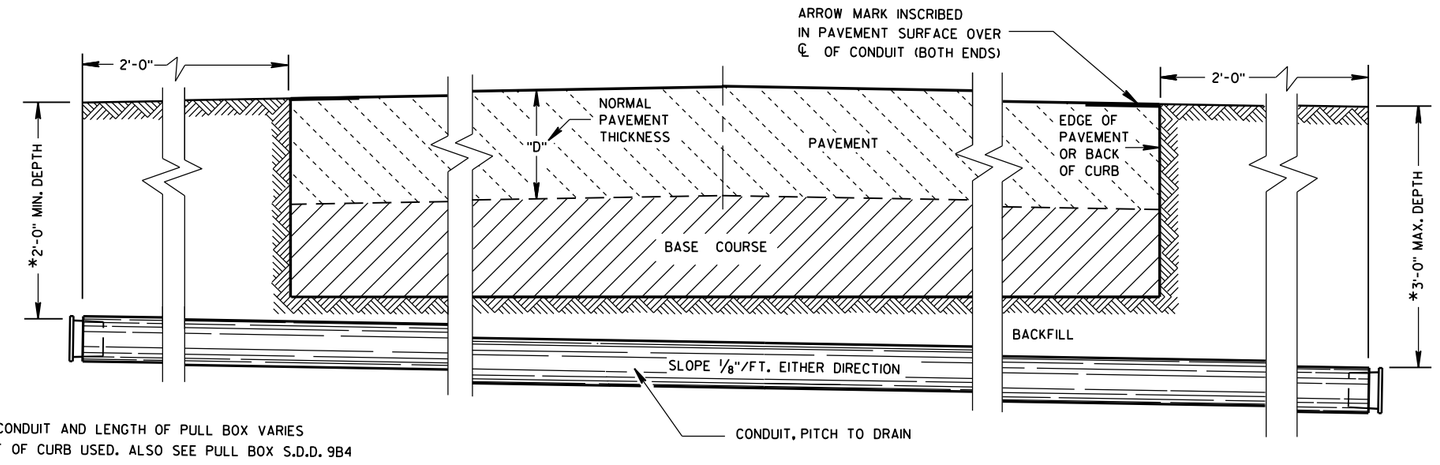
6

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



PLAN VIEW

ARROW MARK



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

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

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March, 2017
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL
FHWA

6

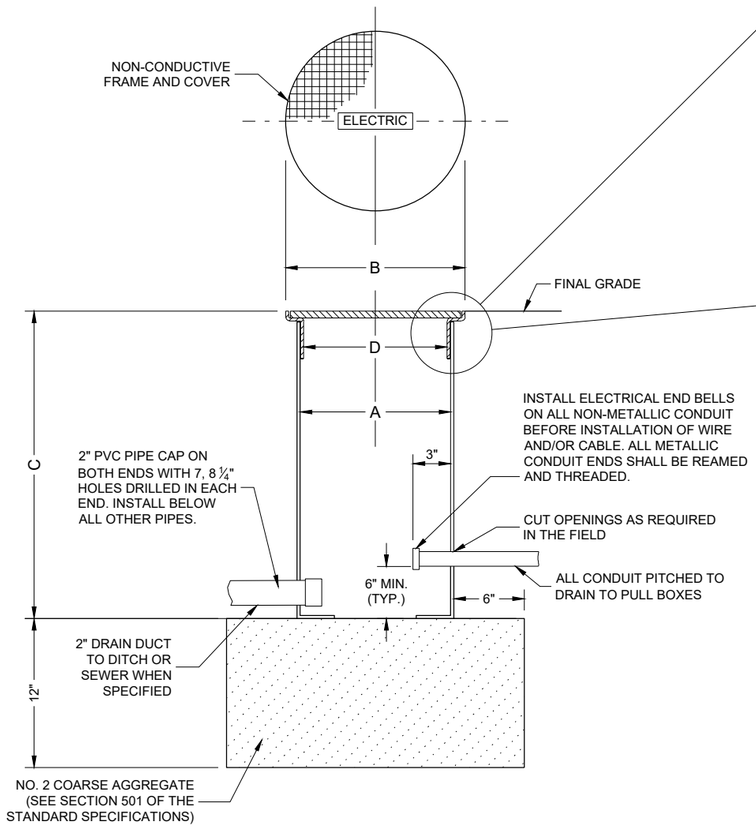
S.D.D. 9 B 2-10

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

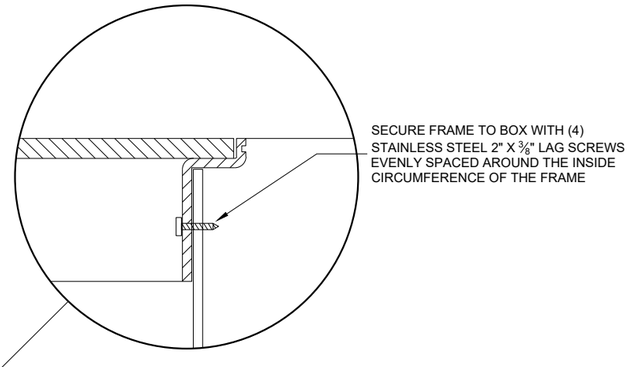
DIMENSION IN INCHES		NON- CONDUCTIVE PULL BOX	
BOX DIAMETER ** (INSIDE)	A	24	24
BOX OVERALL OUTSIDE DIAMETER	B	27	27
BOX LENGTH	C	36	42
FRAME OPENING	D	22 ½	22 ½
WEIGHT IN POUNDS *			
COVER		50	50
BOX ONLY		75	85

* THE ACTUAL WEIGHT OF THE COVER OR BOX ONLY MAY VARY NOT TO EXCEED 100 LBS INDIVIDUALLY.

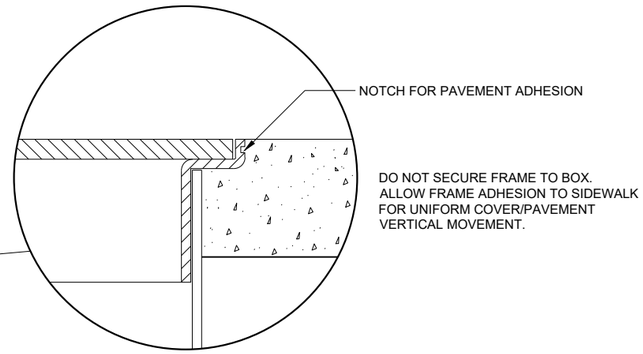
** DIAMETER VARIES FROM TOP TO BOTTOM WITH THE DIAMETER LARGER AT THE BOTTOM TO PREVENT FROST HEAVE.



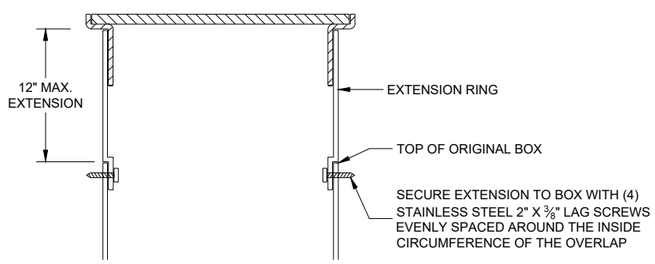
NON-CONDUCTIVE PULL BOX



INSTALLED IN SOD OR CRUSHED AGGREGATE



INSTALLED IN SIDEWALK



BOX EXTENSION

GENERAL NOTES

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

ALL BOXES, FRAMES AND COVERS SHALL BE SUITABLE FOR TIER 15 LOADING AS SPECIFIED IN ANSI/SCTE 77.

PROVIDE AN OPENING FOR TOOL ASSISTED COVER REMOVAL NOT LARGE ENOUGH TO PERMIT PASSAGE OF A SPHERE MORE THAN ½" DIAMETER

ENSURE COVER SURFACE IS SKID RESISTANT WITH A COEFFICIENT OF FRICTION OF AT LEAST 0.5 AND VERTICAL SURFACE DICONTINUITIES LESS THAN ¼".

COVER SHALL BE MAGNETICALLY LOCATABLE.

BOXES AND EXTENSIONS ARE TRIMMABLE FOR CUSTOM LENGTHS. TRIMMED PIECES SHALL MAINTAIN A UNIFORM LENGTH.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN ¼".

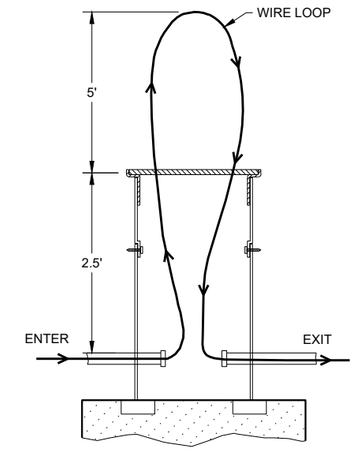
THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

ENTIRE BOX MUST BE CONSTRUCTED OF NON-CONDUCTIVE MATERIALS WITH THE EXCEPTION OF STAINLESS STEEL FASTENERS AND MAGNETIC LOCATABLE DEVICE.

WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE.

LABEL ON COVER SHALL READ "ELECTRIC" FOR SIGNAL AND LIGHTING SYSTEMS, "WISDOT ITS" FOR COMMUNICATIONS AND ITS EQUIPMENT SYSTEMS.



MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX

PULL BOXES NON-CONDUCTIVE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

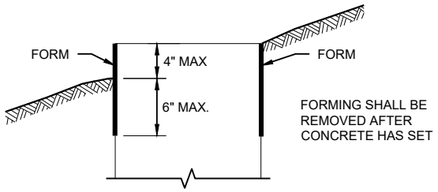
APPROVED
May 2022
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 111

FHWA

6
SDD 09B16 - 02

FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5 & 6
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

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

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FRO FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2, TYPE 5 AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER ALL BASE TYPES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

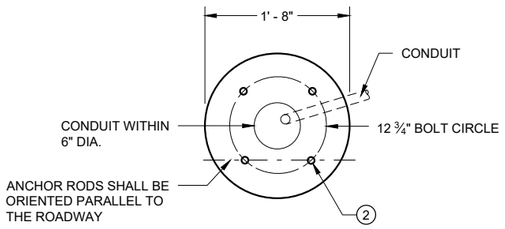
WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

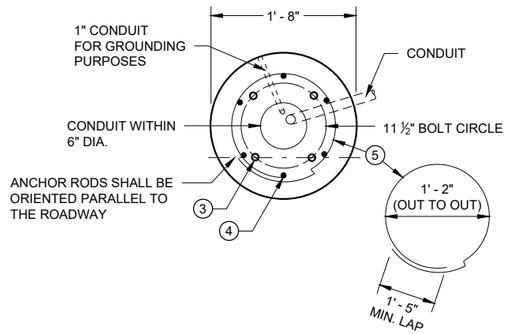
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

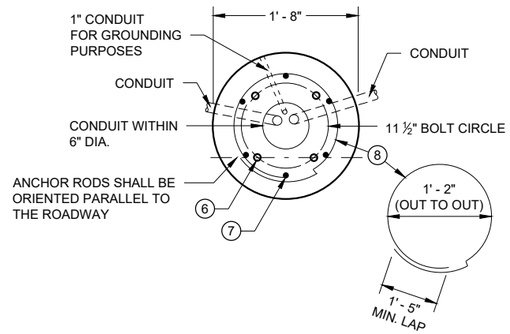
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).







1 THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

2 (4) 1" DIA. X 3' - 6" ANCHOR RODS.

3 (4) 1" DIA. X 5' - 0" ANCHOR RODS.

4 (6) NO. 6 X 6' - 8" BAR STEEL REINFORCEMENT.

5 (7) NO. 4 X 5' - 1" BAR STEEL REINFORCEMENT @ 1' - 0" C - C.

6 (4) 1" DIA. X 3' - 6" ANCHOR RODS.

7 (6) NO. 4 X 4' - 8" BAR STEEL REINFORCEMENT.

8 (5) NO. 4 X 5' - 1" BAR STELL REINFORCEMENT @ 1' - 0" C -C.

9 EXOTHERMIC CONNECTION TO EUIPMENT GROUNDING CONDUCTOR

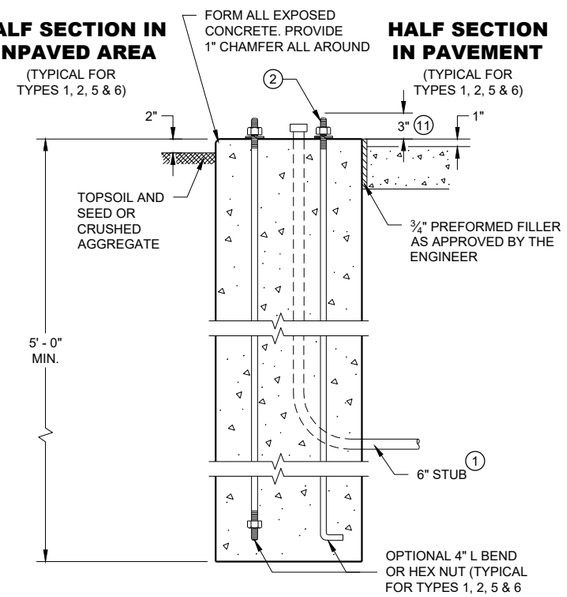
10 ⅝" DIA. X 8' -0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED

11 ANY ANCHOR ROD PROJECTION SHORTER THAN 2 ¾" OR LONGER THAN 3 ¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

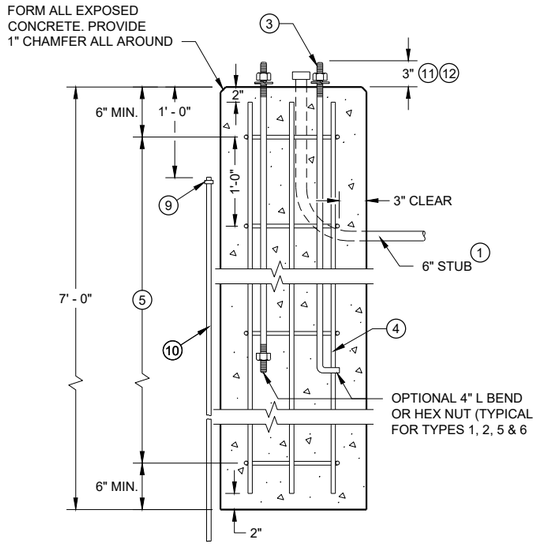
12 FOR NON - BREAKAWAY INSTALLATIONS, 4 ½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

HALF SECTION IN UNPAVED AREA
(TYPICAL FOR TYPES 1, 2, 5 & 6)

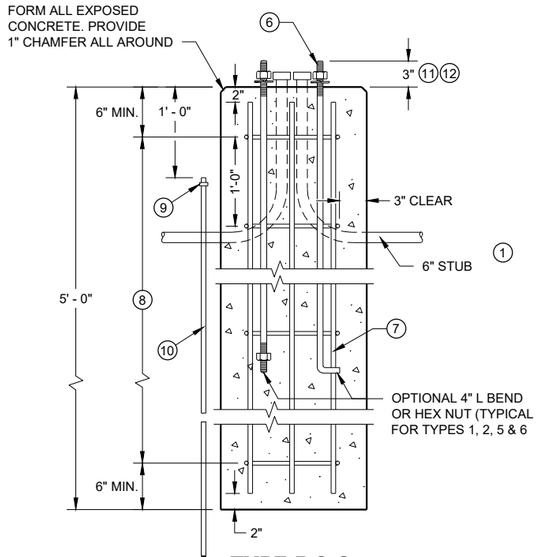
HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2, 5 & 6)



TYPE 1



TYPE 2



TYPE 5 & 6

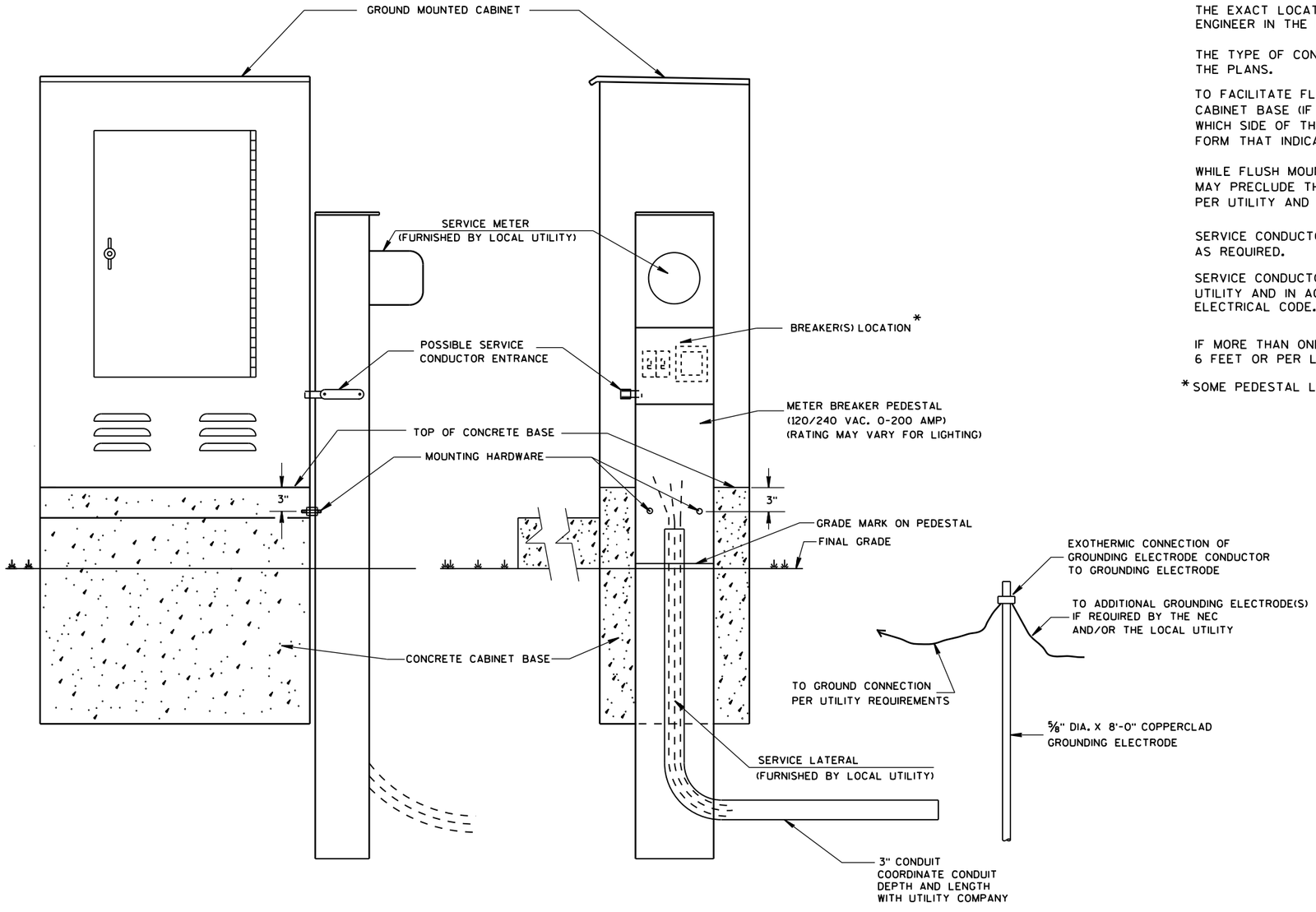
CONCRETE BASES

CONCRETE BASES TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 112

FHWA



TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

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

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE. CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS AS REQUIRED.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 6 FEET OR PER LOCAL UTILITY REGULATIONS.

* SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

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S.D.D. 9 D 1-5

CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

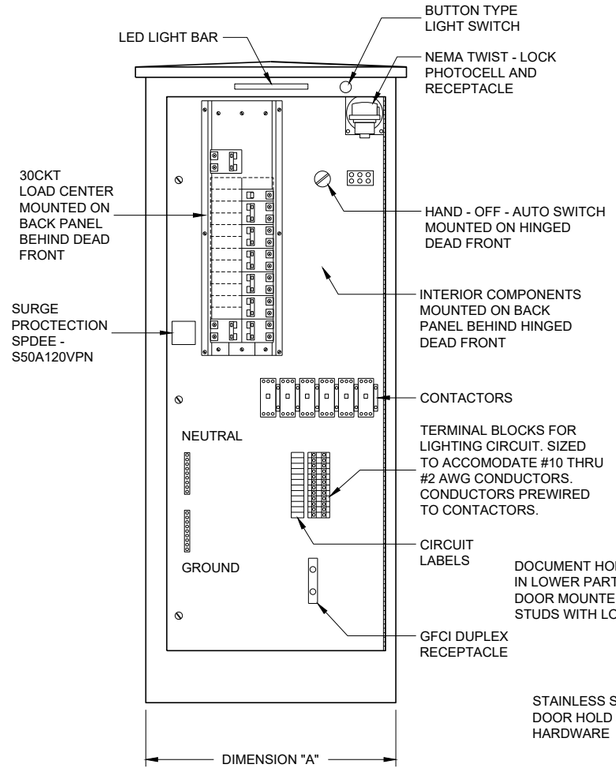
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE

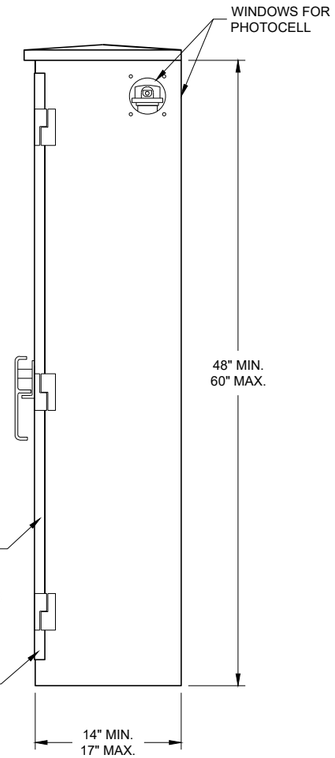
/S/ Ahmet Demirbilek
STATE ELECTRICAL

FHWA

FRONT INTERIOR ELEVATION



SIDE VIEW



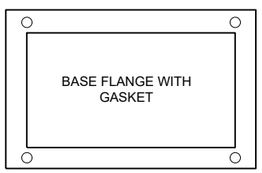
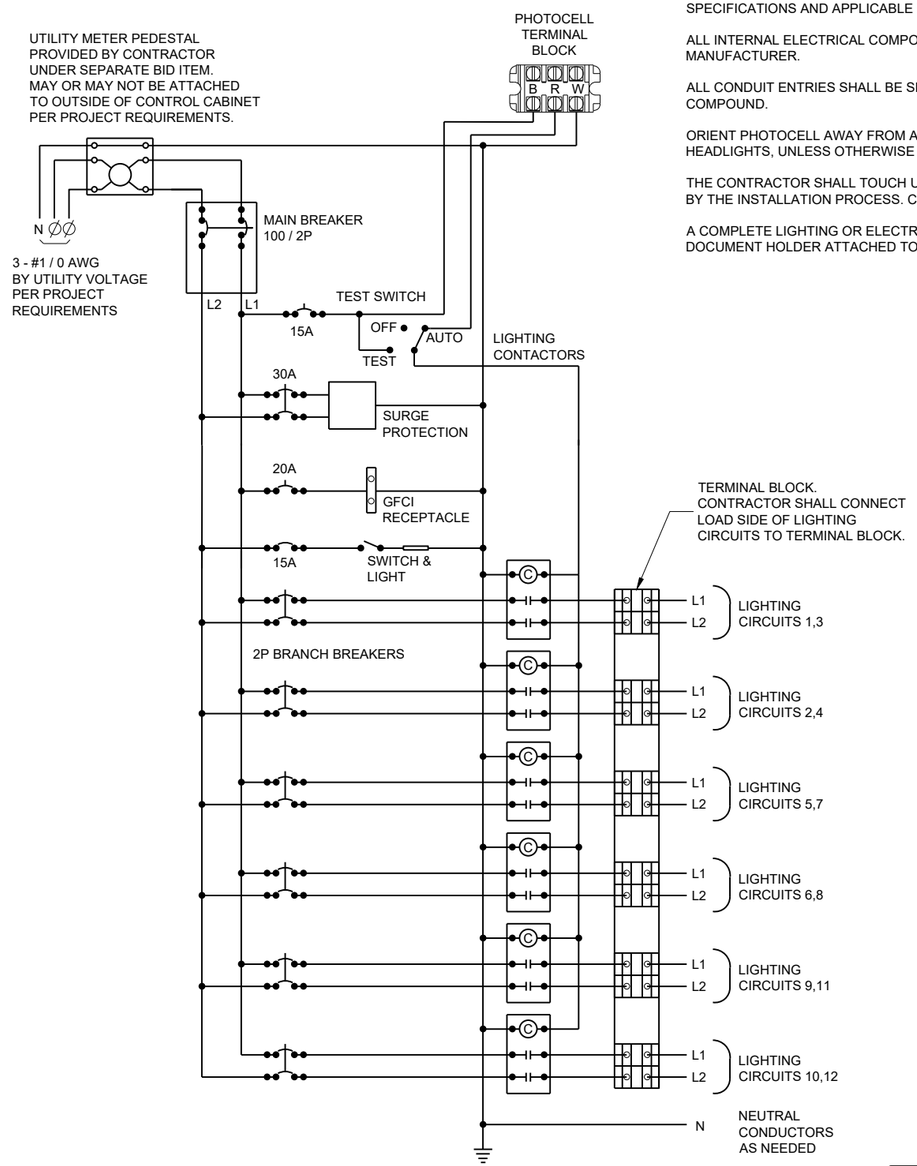


TABLE OF DIMENSIONS (INCHES)		
CONCRETE BASE TYPE	CABINET WIDTH	DIMENSION "A"
L24	24"	24"
L30	30"	30"

LIGHTING CONTROL CABINET



CONTROL CABINET SCHEMATIC

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.

ALL INTERNAL ELECTRICAL COMPONENTS WILL BE PRE - WIRED BY THE CABINENT MANUFACTURER.

ALL CONDUIT ENTRIES SHALL BE SEALED WITH AN APPROPRIATE DUCT SEALING COMPOUND.

ORIENT PHOTOCELL AWAY FROM AMBIENT LIGHT SOURCES AND ONCOMING TRAFFIC HEADLIGHTS, UNLESS OTHERWISE CALLED FOR IN THE SPECIAL PROVISION.

THE CONTRACTOR SHALL TOUCH UP ANY DAMAGE TO THE ANODIZED FINISH CAUSED BY THE INSTALLATION PROCESS. COLOR MATCH PAINT SHALL BE USED.

A COMPLETE LIGHTING OR ELECTRICAL PLAN SHALL BE SECURELY PLACED IN THE DOCUMENT HOLDER ATTACHED TO THE DOOR.

LIGHTING CONTROL CABINET
120 / 240 VOLT

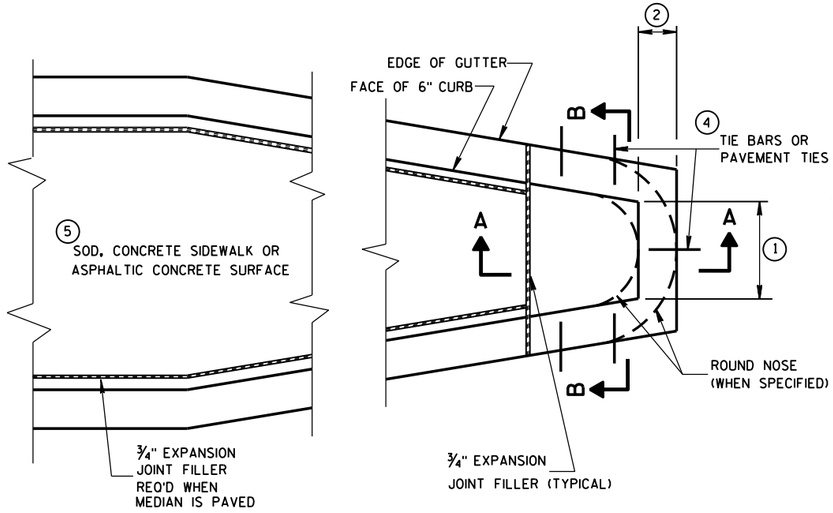
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

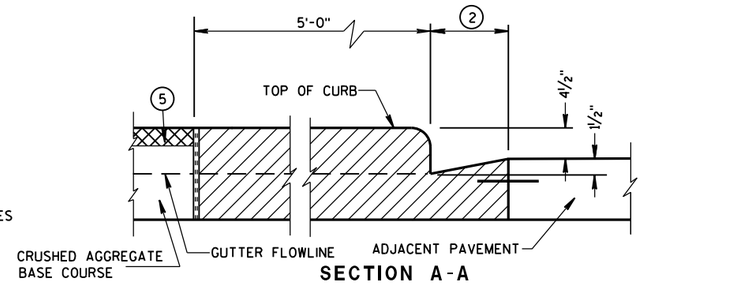
APPROVED
November 2018
DATE

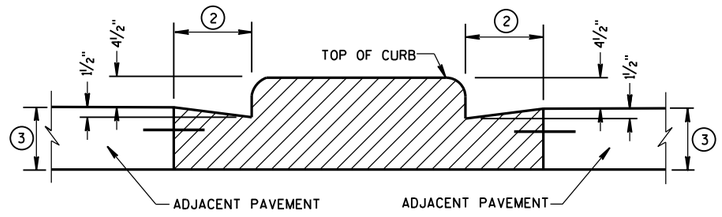
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

FHWA

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SDD 09D04 - 03







CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

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

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

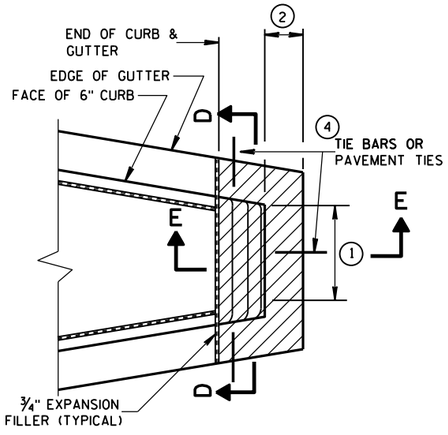
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

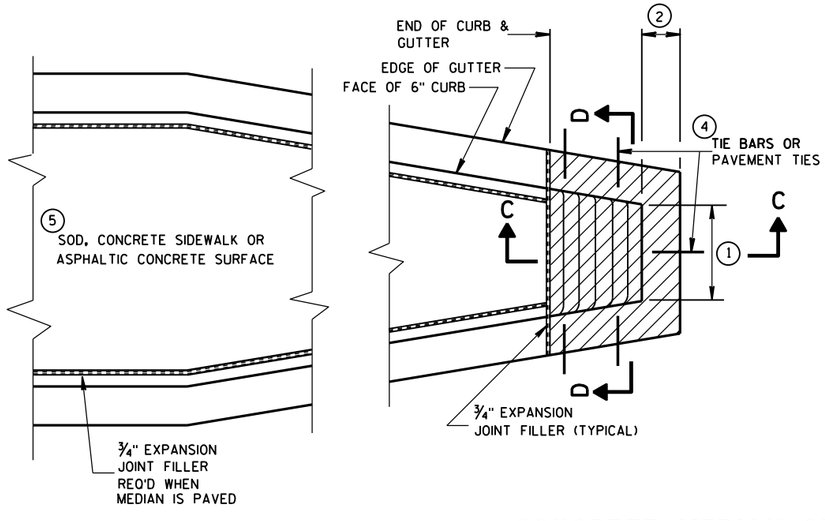
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

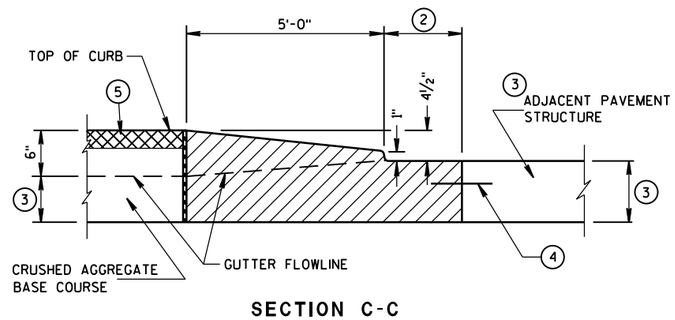
PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

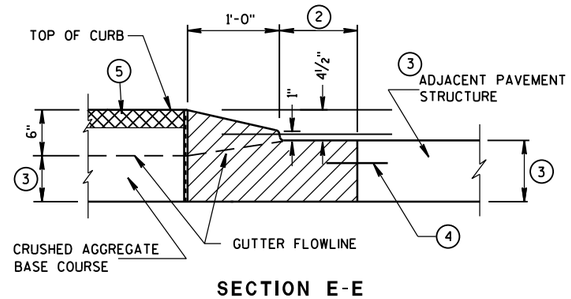
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.



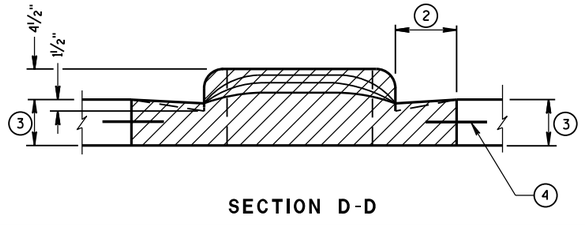


CONCRETE MEDIAN SLOPED NOSE TYPE 1





CONCRETE MEDIAN SLOPED NOSE TYPE 2



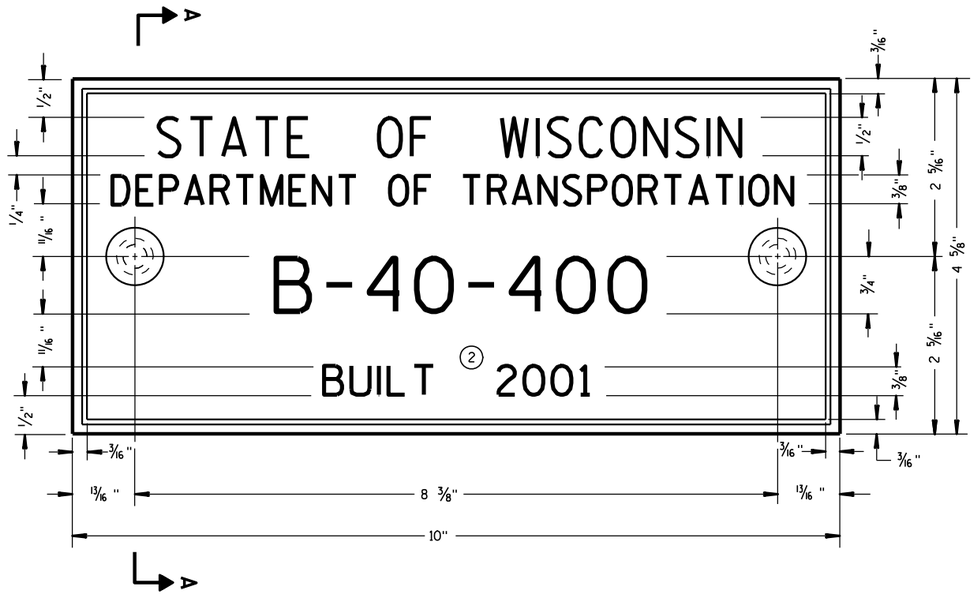
CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/8/2006 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

S.D.D. 11 B 2-2

S.D.D. 11 B 2-2



TYPICAL NAME PLATE
(BRIDGES, CULVERTS, AND RETAINING WALLS)

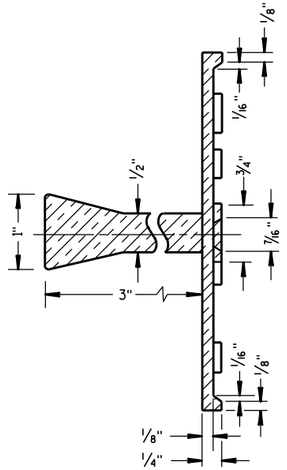
GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

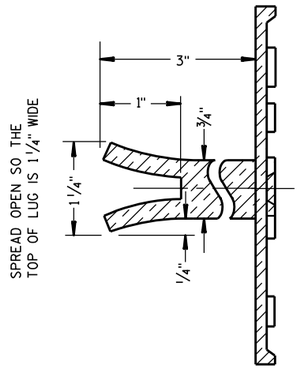
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

(1) EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SECTION A-A



ALTERNATE LUG

FOR MULTI-UNIT STRUCTURES LINE 3 ABOVE SHALL READ

B = BRIDGE
C = CULVERT
R = RETAINING WALL

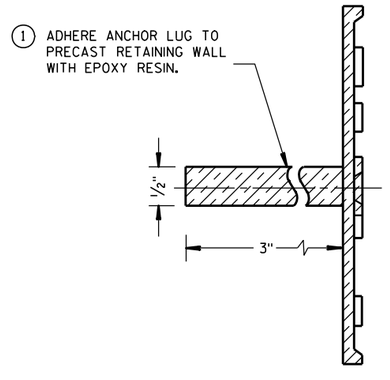
COUNTY NO.

BRIDGE NO.

UNIT NO. FOR MULTIPLE UNIT BRIDGE

B-40-400-1A

NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES



ALTERNATE LUG
(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/26/10 DATE

/S/ Scot Beck -- CHIEF STRUCTURAL DEVELOP ENGINEER

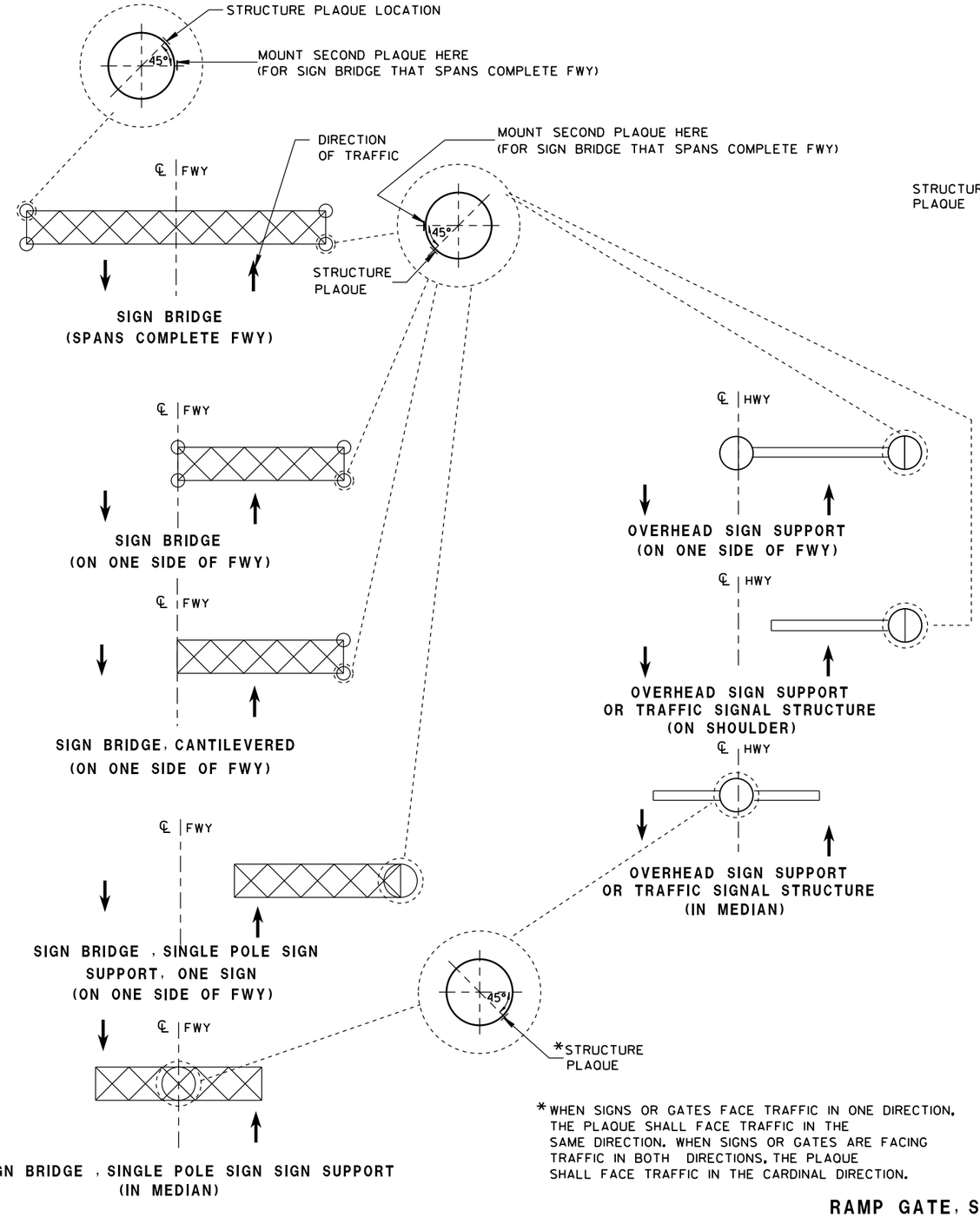
FHWA

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S.D.D. 12 A 3-10

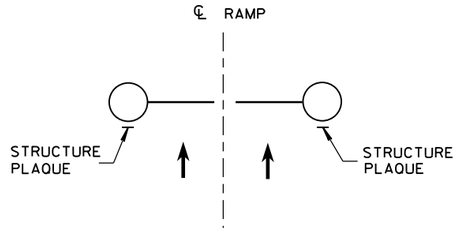
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S.D.D. 12 A 3-10

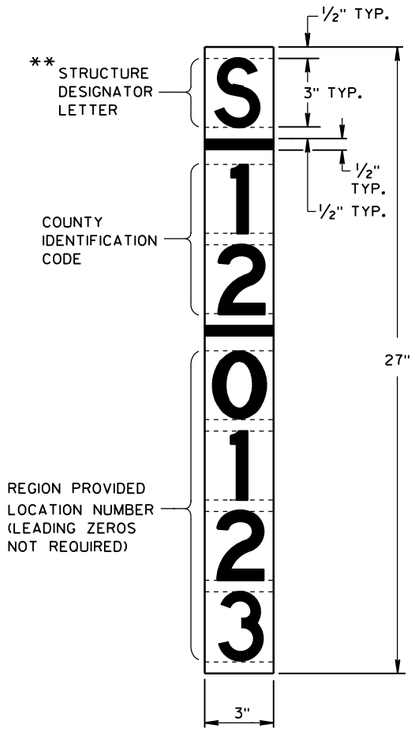


*WHEN SIGNS OR GATES FACE TRAFFIC IN ONE DIRECTION, THE PLAQUE SHALL FACE TRAFFIC IN THE SAME DIRECTION. WHEN SIGNS OR GATES ARE FACING TRAFFIC IN BOTH DIRECTIONS, THE PLAQUE SHALL FACE TRAFFIC IN THE CARDINAL DIRECTION.

LOCATION OF RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT & TRAFFIC SIGNAL STRUCTURE PLAQUES



**RAMP GATE
(ACROSS FWY ON-RAMP)**



RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT AND TRAFFIC SIGNAL STRUCTURE PLAQUE FOR SIGN BRIDGES AND OVERHEAD SIGN SUPPORT WHICH ARE NOT STRUCTURE MOUNTED

** LETTER "G" UTILIZED FOR RAMP GATES. LETTER "S" UTILIZED FOR SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, AND TRAFFIC SIGNALS.

GENERAL NOTES

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

PLAQUES SHALL BE INCIDENTAL TO ALL NEW INSTALLATIONS.

IF THE PROPOSED SIGN BRIDGE OR OVERHEAD SIGN SUPPORT IS REPLACING AN EXISTING SIGN BRIDGE OR OVERHEAD SIGN SUPPORT, A NEW IDENTIFICATION PLAQUE WILL BE REQUIRED.

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE TO POLE OR OTHER LOCATION AS FOLLOWS:

GALVANIZED STEEL SHAFT - 3 STAINLESS STEEL POP RIVETS

A588 STEEL SHAFT - SHIM FOR DRAINAGE WITH STAINLESS WASHERS; FASTEN WITH STAINLESS SELF-TAPPING SCREWS

ALUMINUM SHAFTS - 3 ALUMINUM POP RIVETS

MOUNTING HEIGHT SHALL BE APPROXIMATELY 5.0' ABOVE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL OBSTRUCT.

PLAQUE MATERIALS:

BASE - SHEET ALUMINUM, 0.060" THICK.

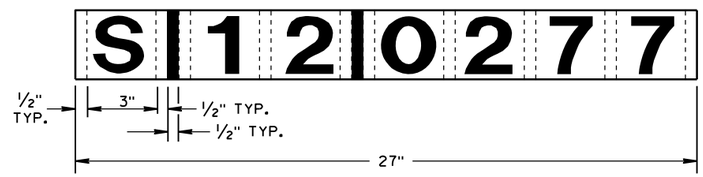
FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETROREFLECTIVE

LINES - BLACK, ½" WIDE, SELF-ADHESIVE

CHARACTERS:- BLACK, SELF ADHESIVE, SERIES "D", SIZE AS SHOWN.

FOR SIGN BRIDGES, STRUCTURE MOUNTED, THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY AS SHOWN ON THE DRAWING. THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY TO THE BACK OF THE SIGN, BETWEEN THE ALUMINUM EXTRUSIONS, NEAR THE TOP LEFT HAND CORNER OF THE SIGN. THE BASE MATERIAL SHALL BE OMITTED AND THE FACE ADHERED DIRECTLY TO THE ALUMINUM SURFACE. PRIOR TO ADHERING THE MATERIAL, THE ALUMINUM SURFACE SHALL BE SMOOTH, CLEAN AND DRY.

WHERE SIGN BRIDGE ILLUMINATION IS PROVIDED, THE STRUCTURE MUST ALSO HAVE A SIGN BRIDGE CIRCUIT PLAQUE AS SHOWN IN THE ELECTRICAL DETAILS.



IDENTIFICATION PLAQUE FOR SIGN BRIDGE, STRUCTURE MOUNTED

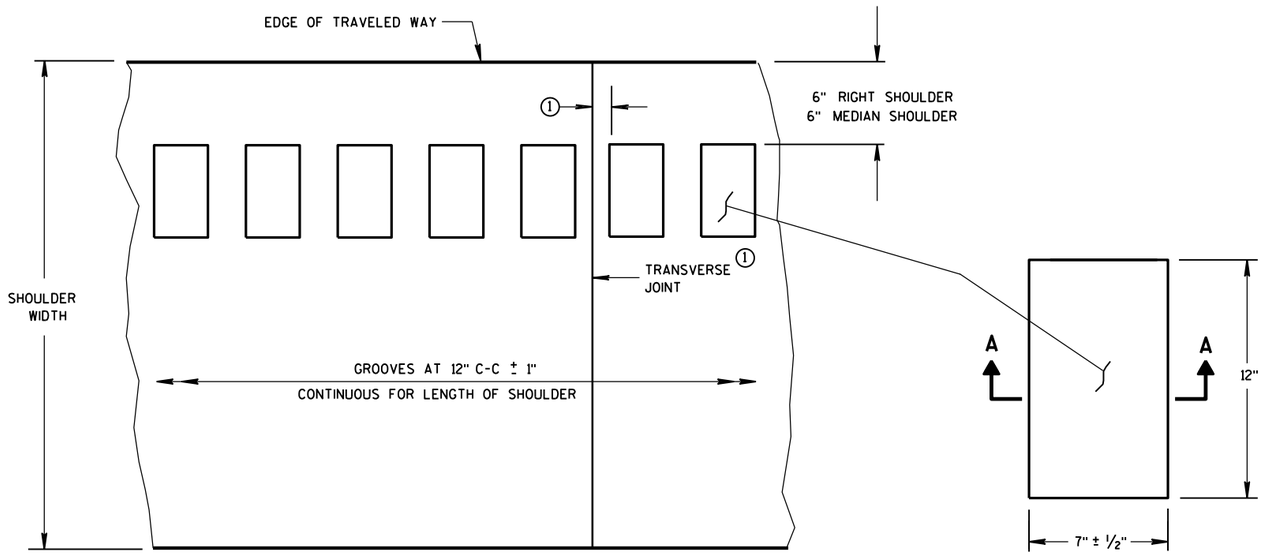
STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, & TRAFFIC SIGNALS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/4/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 12 A 4-3



PLAN VIEW
SHOULDER WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR MILLED RUMBLE STRIP

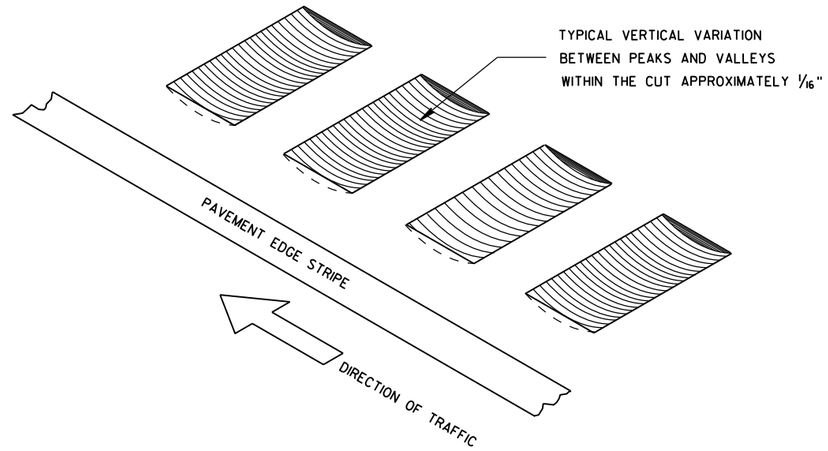
GENERAL NOTES

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

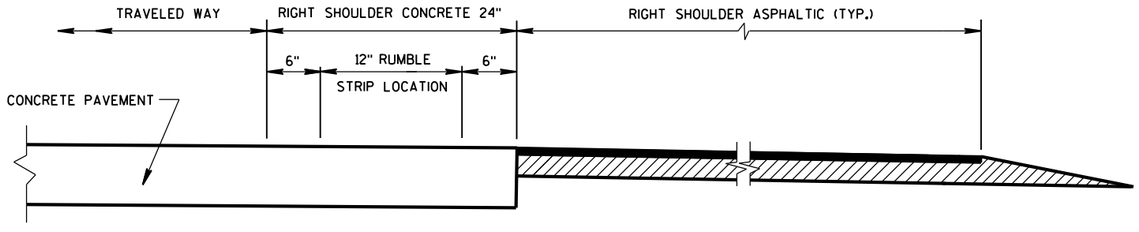
RUMBLE STRIPS ON EXPRESSWAYS

DO NOT INSTALL RUMBLE STRIPS ACROSS SIDE ROAD INTERSECTIONS, COMMERCIAL DRIVEWAYS, PRIVATE DRIVEWAYS OR ADJACENT TO RIGHT TURN LANES, LEFT TURN LANES, TURN LANE TAPERS, BRIDGE DECKS, BRIDGE APPROACHES, OR 100 FEET IN ADVANCE OF RAILROAD CROSSING. THE ATTACHED STANDARD DETAIL DRAWING SHOWS THE LOCATION OF THE RUMBLE STRIPS AT INTERCHANGE AREAS.

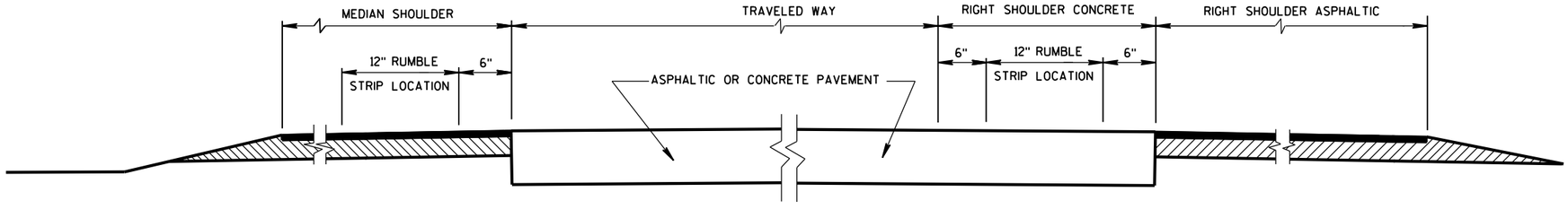
(1) CONCRETE PAVEMENT - RUMBLE STRIPS SHALL BE A MINIMUM OF 6" AWAY FROM TRANSVERSE JOINTS.



ISOMETRIC



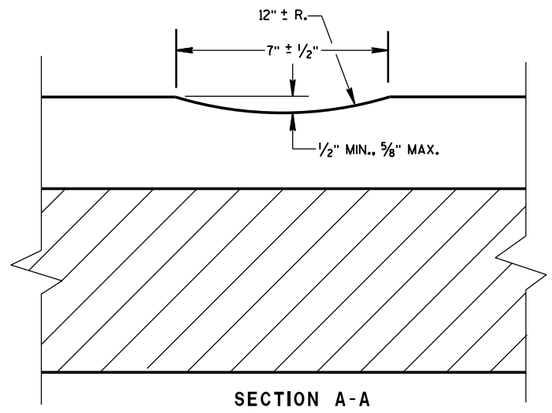
SECTION VIEW
CONCRETE PAVEMENT EXTENDS INTO RIGHT SHOULDER)



SECTION VIEW

TYPICAL LOCATIONS OF SHOULDER RUMBLE STRIPS IN RURAL DIVIDED HIGHWAYS

(ONE ROADWAY IS SHOWN)



SECTION A-A

SHOULDER RUMBLE STRIP, MILLING

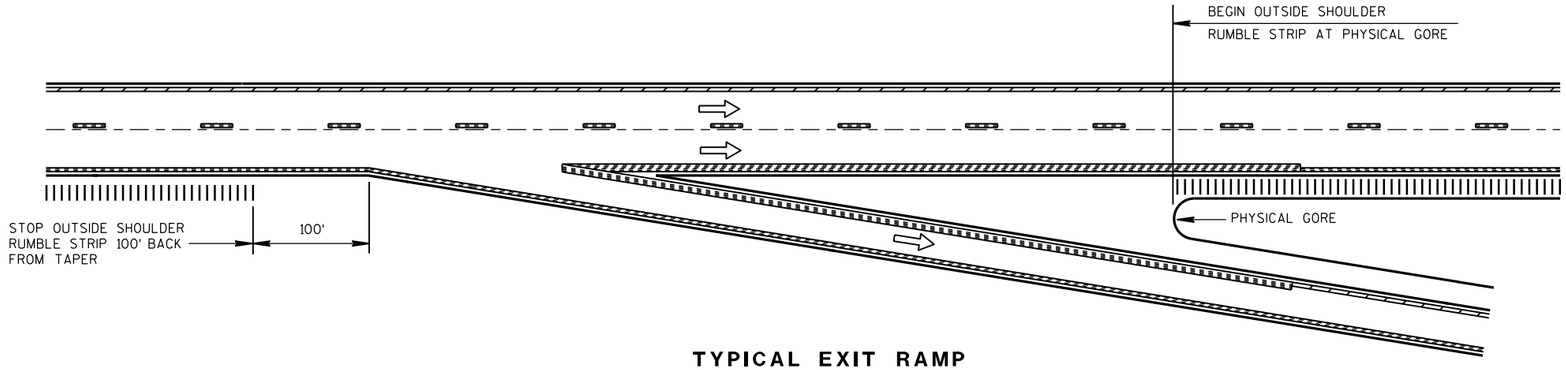
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 13 A 5-5a

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S.D.D. 13 A 5-5a



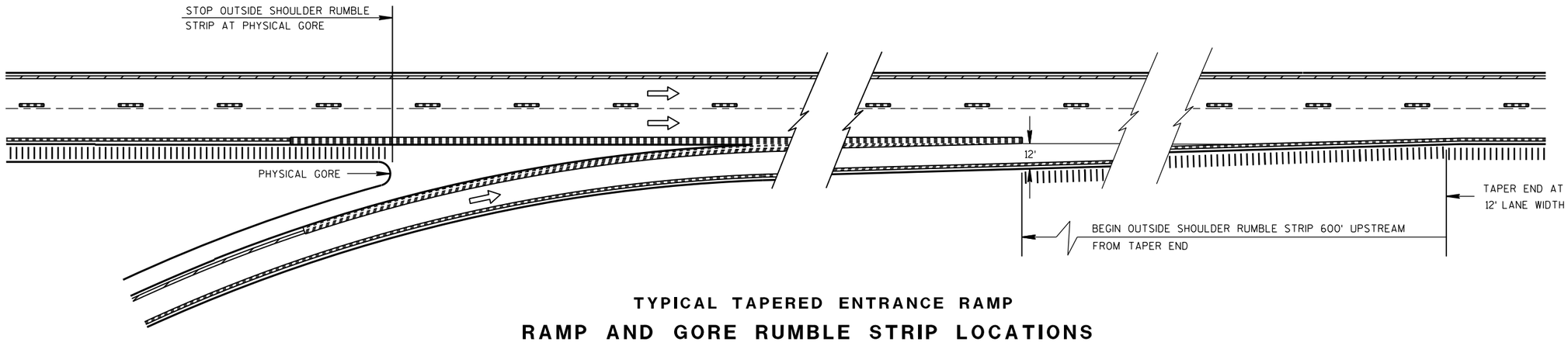
TYPICAL EXIT RAMP

NOTES:

NO RUMBLE STRIP ON EXIT, DIRECTIONAL, OR ENTRANCE RAMPS, EXCEPT NEAR THE ENTRANCE TAPER END AND ALONG THE PARALLEL RAMP AREA AS SHOWN.

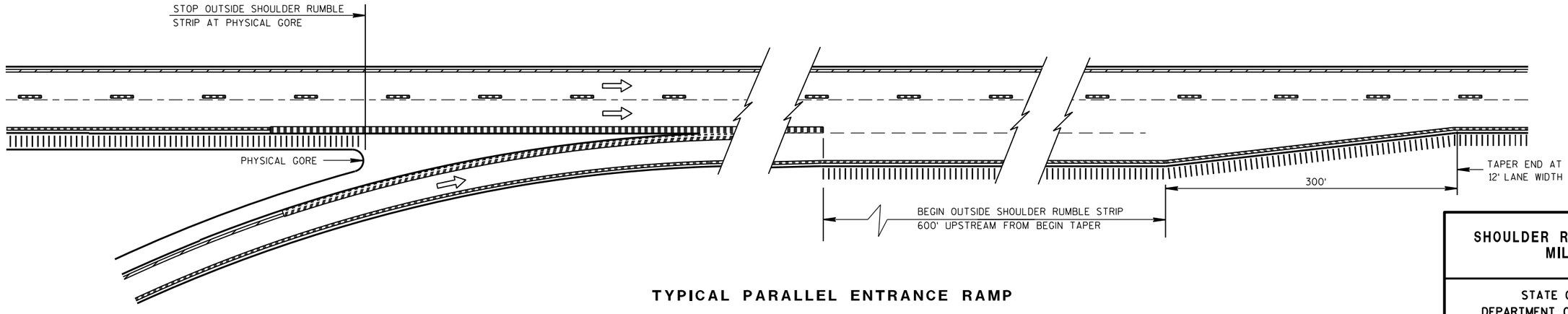
PAVEMENT MARKING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



TYPICAL TAPERED ENTRANCE RAMP

RAMP AND GORE RUMBLE STRIP LOCATIONS



TYPICAL PARALLEL ENTRANCE RAMP

RAMP AND GORE RUMBLE STRIP LOCATIONS

SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

12/17/2012
DATE

/S/ Jerry H. Zoga
ROADWAY STANDARDS ENGINEER

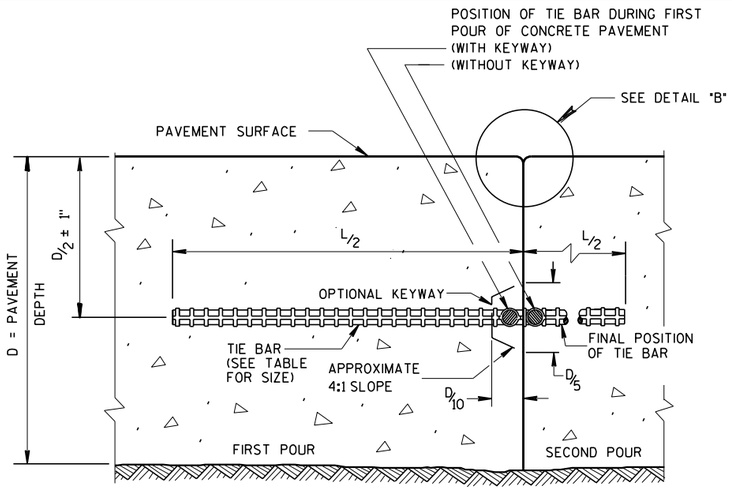
FHWA

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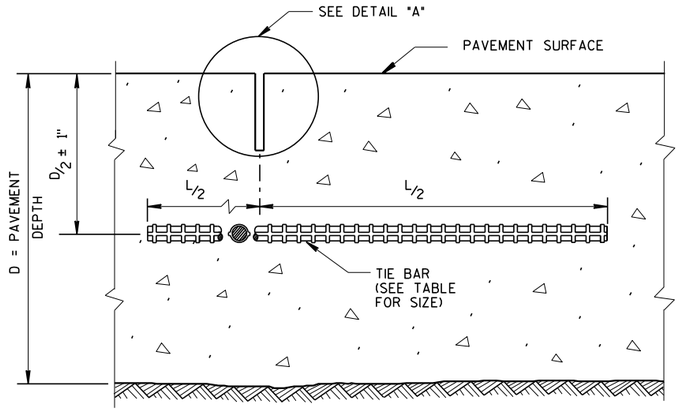
S.D.D. 13 A 5-5b

6

S.D.D. 13 A 5-5b



CONSTRUCTION JOINT



SAWED JOINT

GENERAL NOTES

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

PLAN VIEW

SECTION A-A

LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT

DETAIL "A"

DETAIL "B"

DETAIL "C"

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

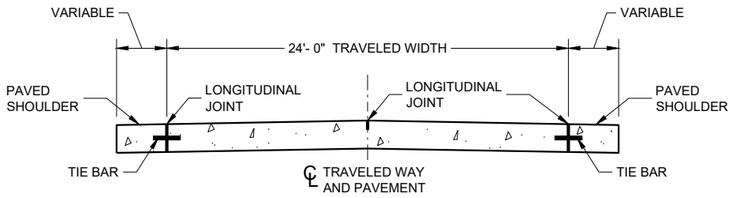
APPROVED
March 2018
DATE
/S/ Peter Kemp, PE
PAVEMENT SUPE
FHWA

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S.D.D. 13 C 1-19

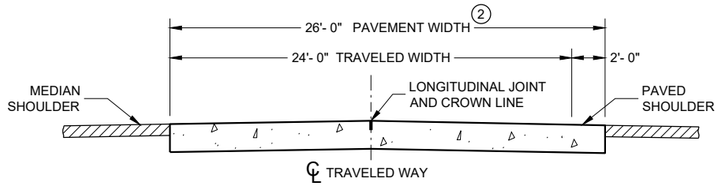
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S.D.D. 13 C 1-19

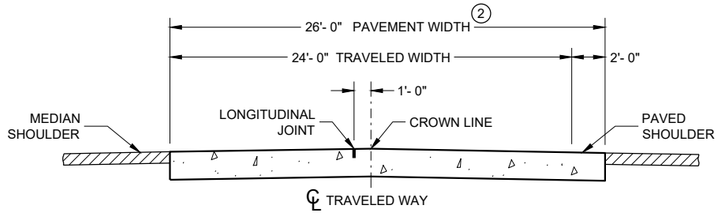


SECTION A - A

TWO-LANE TWO-WAY HIGHWAY (1)



SECTION B - B



ALTERNATIVE SECTION B - B

DIVIDED HIGHWAY (1)

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES FROM AND A MAXIMUM OF 18 INCHES FROM THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

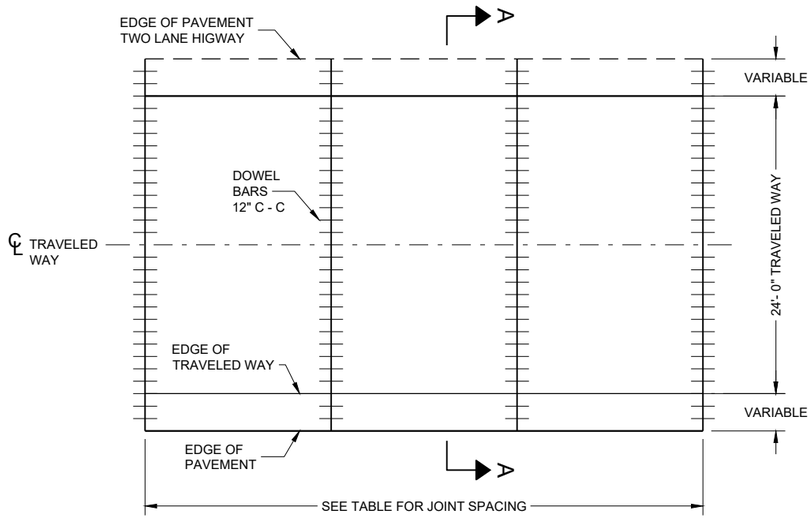
LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO THE CONTRACTION JOINTS.

(1) REFER TO TYPICAL CROSS SECTIONS FOR ADDITIONAL DETAILS.

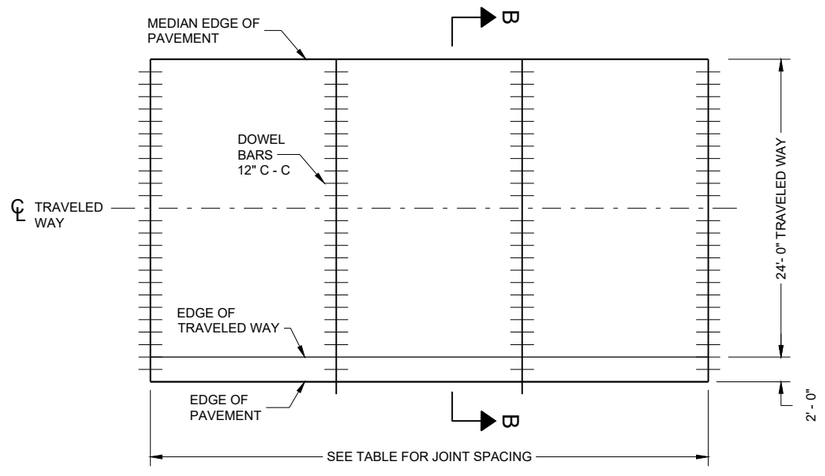
(2) MEASURE THE ENTIRE PAVED WIDTH INCLUDING THE PORTION(S) LABELED "PAVED SHOULDER" AS CONCRETE PAVEMENT.

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9" & ABOVE	1 ¼"	15'



CONTRACTION JOINT LAYOUT FOR TWO-LANE TWO-WAY HIGHWAY



CONTRACTION JOINT LAYOUT FOR DIVIDED HIGHWAY

RURAL DOWELED CONCRETE PAVEMENT

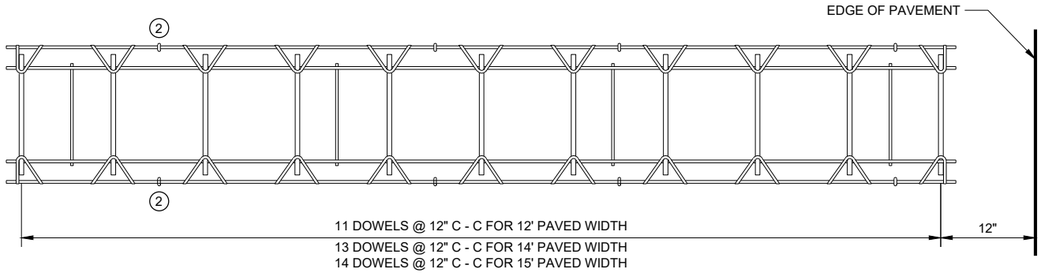
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD13C11 - 13a

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SDD13C11 - 13a



PLAN VIEW



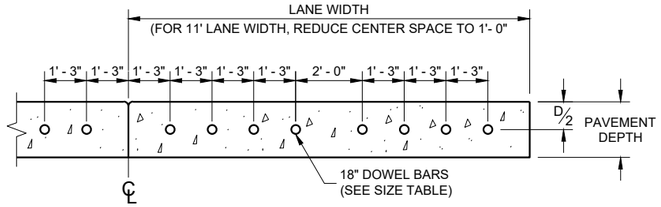
SIDE VIEW

(NORMAL TO CENTERLINE)

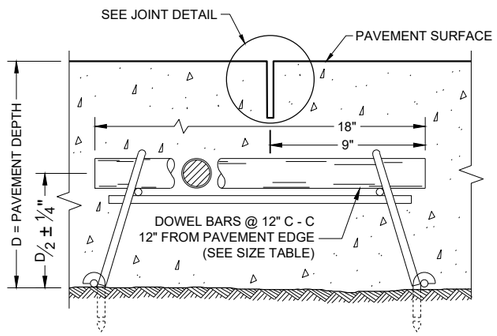
CONTRACTION JOINT DOWEL ASSEMBLY (1)

GENERAL NOTES

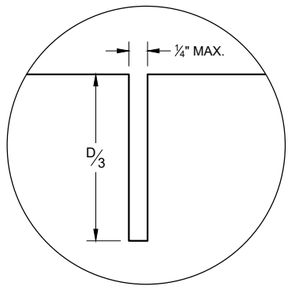
1. OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTION CONTRACTION JOINTS.
2. SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.
3. FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼" RADIUS AT FORMED JOINTS.
4. PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.
5. INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C - C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO THE "DRILLED DOWEL BAR CONSTRUCTION JOINT" DETAIL.
6. APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.
7. ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS ⅛" GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



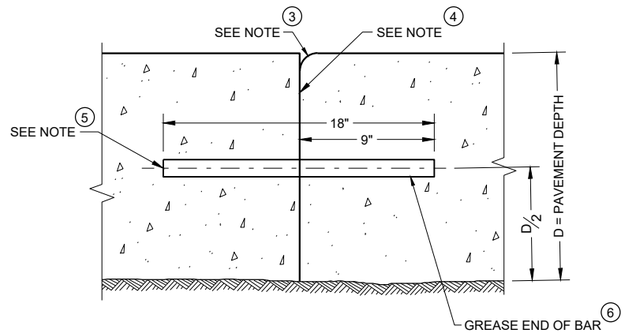
DRILLED DOWEL BAR CONSTRUCTION JOINT (7)



DOWELED CONTRACTION JOINT



JOINT DETAIL



TRANSVERSE CONSTRUCTION JOINT

RURAL DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

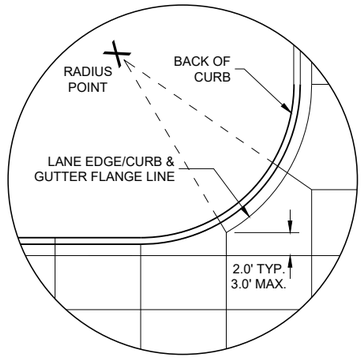
APPROVED
00-00-00 DATE
/S/ <AUTHOR>
PAVEMENT SUPERVIS

FHWA

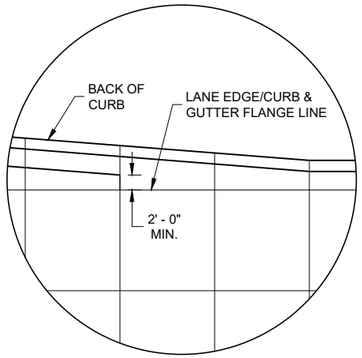
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SDD 13C11 - 13b

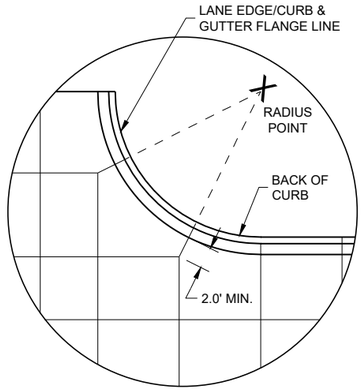
SDD 13C11 - 13b



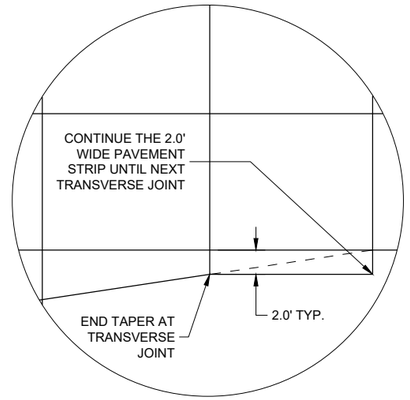
DETAIL "A"



DETAIL "B"



DETAIL "C"



DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

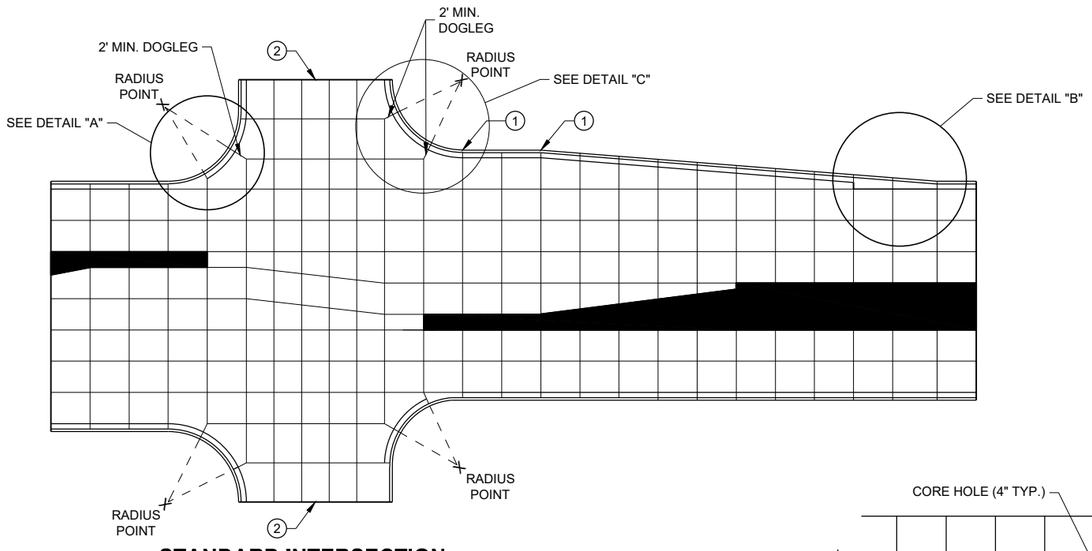
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

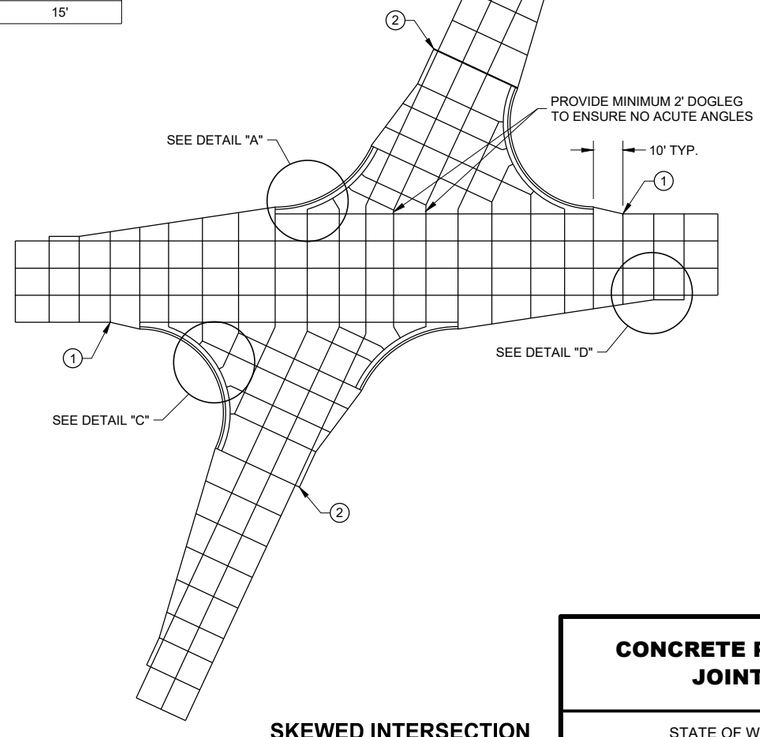
1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITHEDGE OF RADIUS.
3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



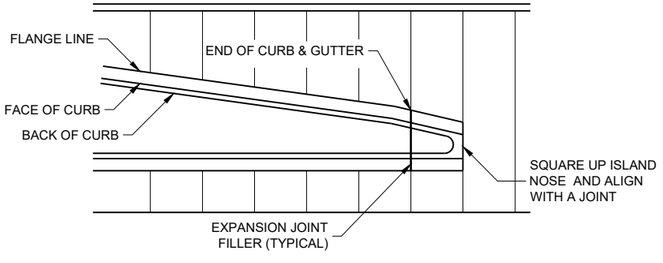
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

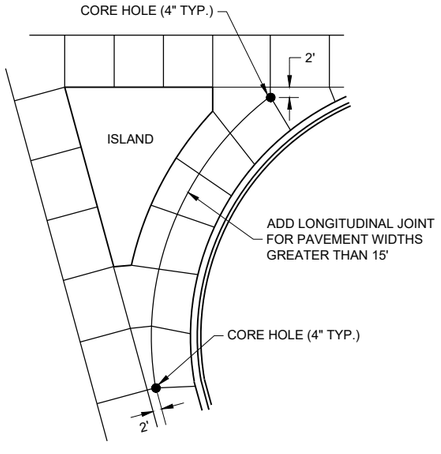
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 ½"	12'
7", 7 ½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 13C18 - 07a

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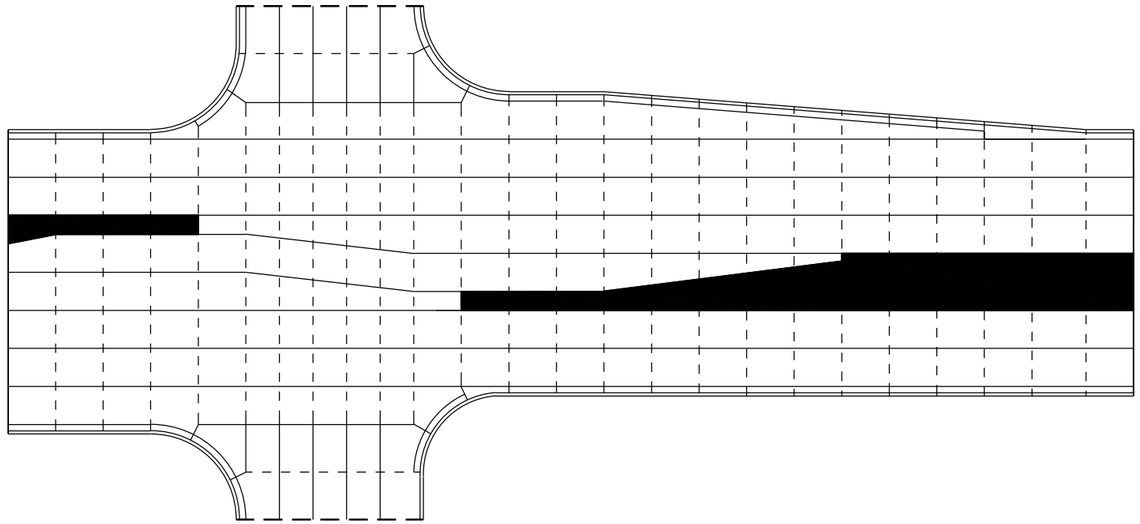
SDD 13C18 - 07a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

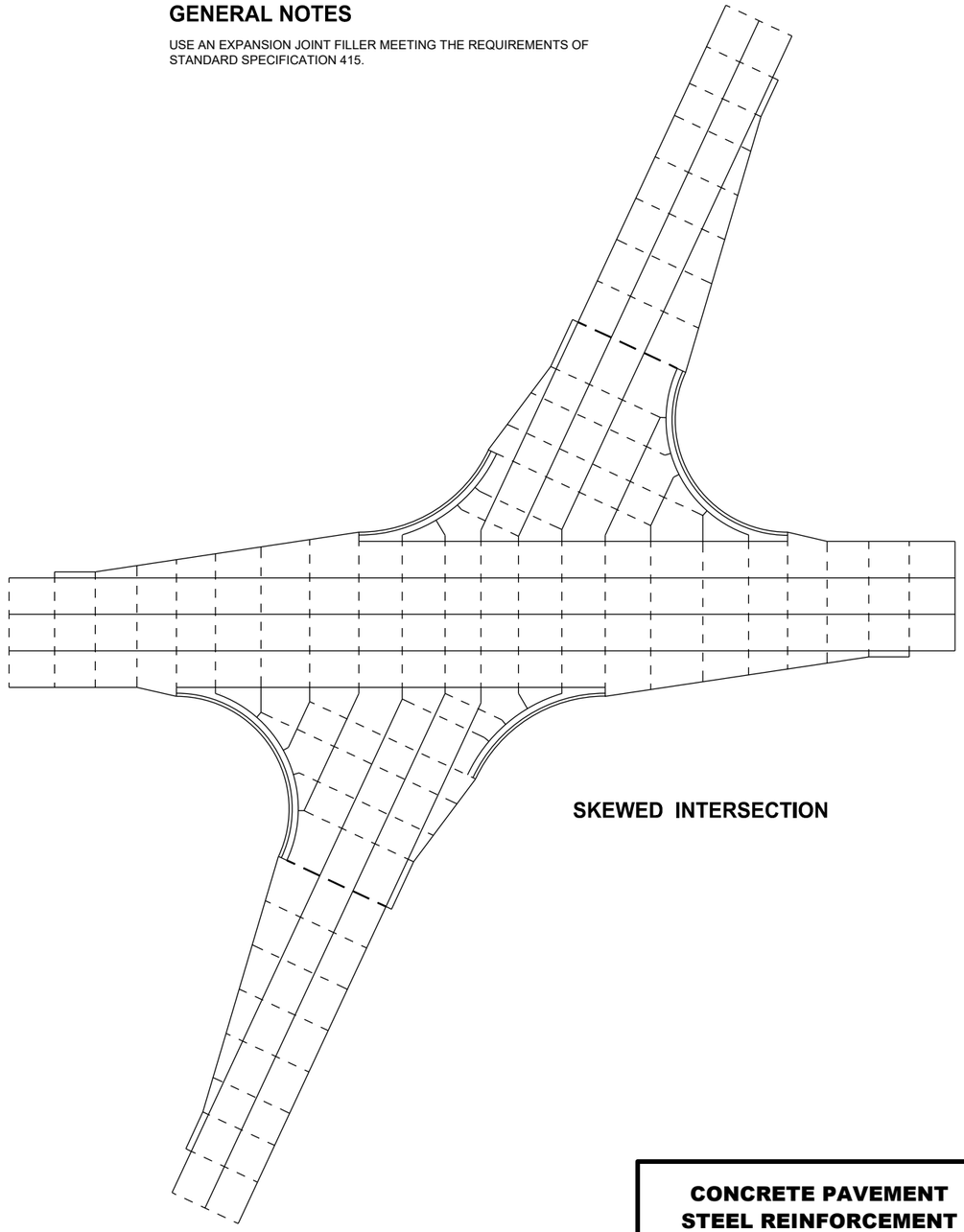
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

6

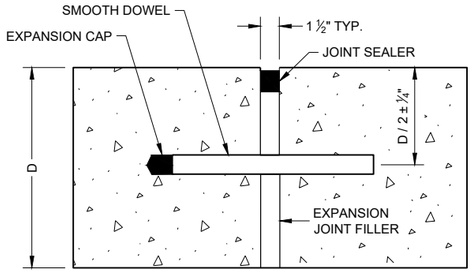
SDD 13C18 - 07b

CONCRETE PAVEMENT
STEEL REINFORCEMENT

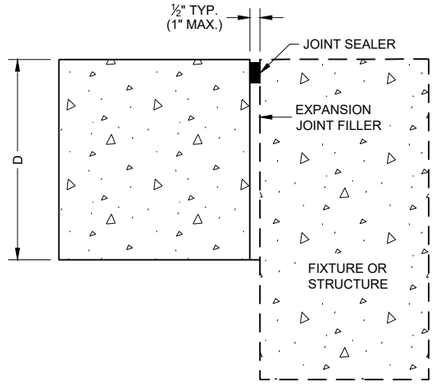
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 13C18 - 07b



DOWELED TRANSVERSE (1)



UNTIED - LONGITUDINAL

EXPANSION JOINTS

TIE BAR TABLE

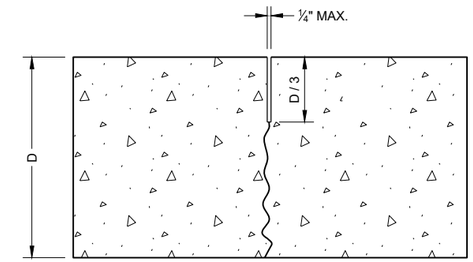
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

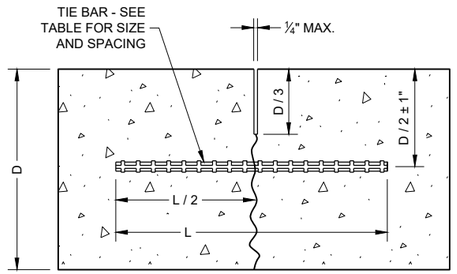
** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

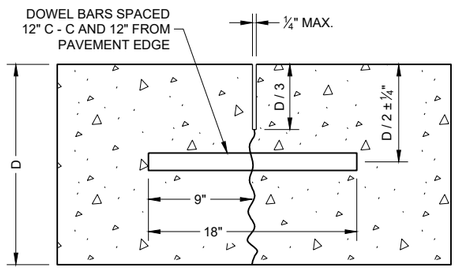
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATETHE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH SDD 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
4. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
5. IF JOINT IS FORMED, PROVIDE A ¼" RADIUS.
6. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



UNDOWELED TRANSVERSE

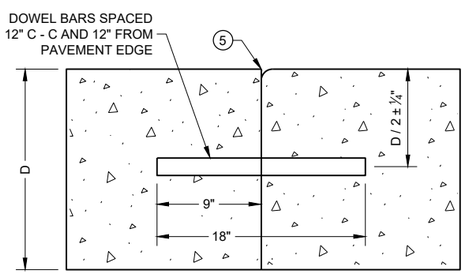


TIED LONGITUDINAL

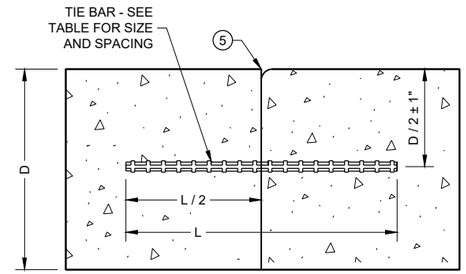


DOWELED TRANSVERSE

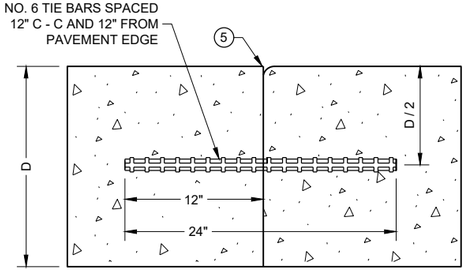
CONTRACTION JOINTS (2)



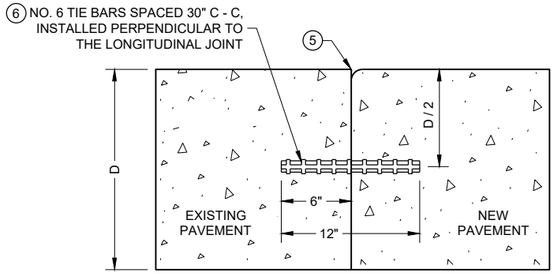
DOWELED TRANSVERSE (3)



TIED LONGITUDINAL



TIED TRANSVERSE (3)
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



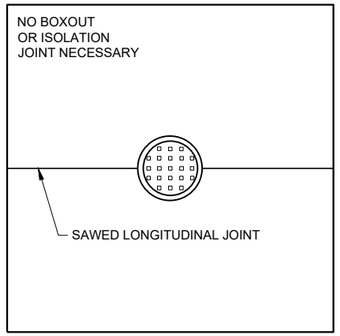
TIED LONGITUDINAL TO EXISTING

CONSTRUCTION JOINTS (4)

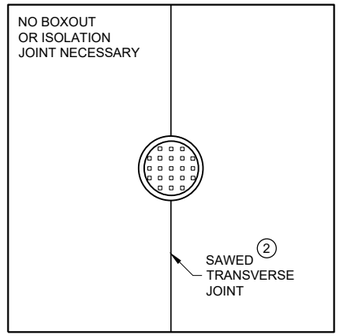
CONCRETE PAVEMENT JOINT TYPES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

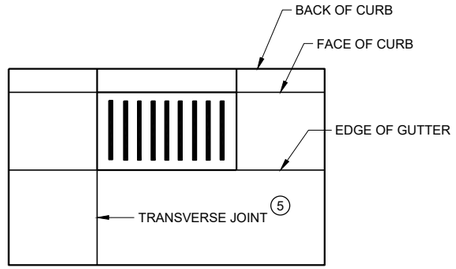
6
SDD 13C18 - 07c



MANHOLE WITH LONGITUDINAL JOINT



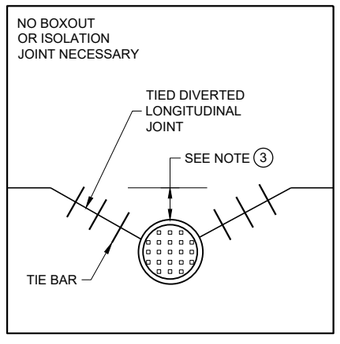
MANHOLE WITH TRANSVERSE JOINT



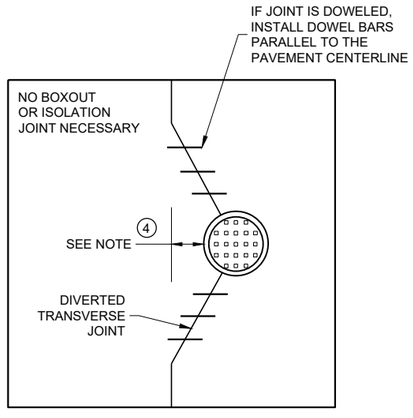
INLET WITH TRANSVERSE JOINT

GENERAL NOTES

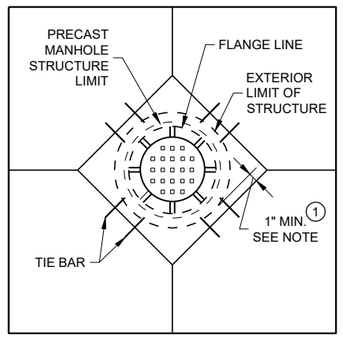
1. USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
2. ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
3. IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDINAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
4. IF THE DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS LESS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
5. ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT



DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVISOR

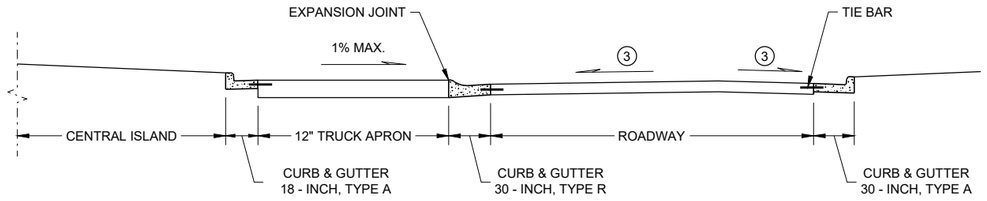
FHWA

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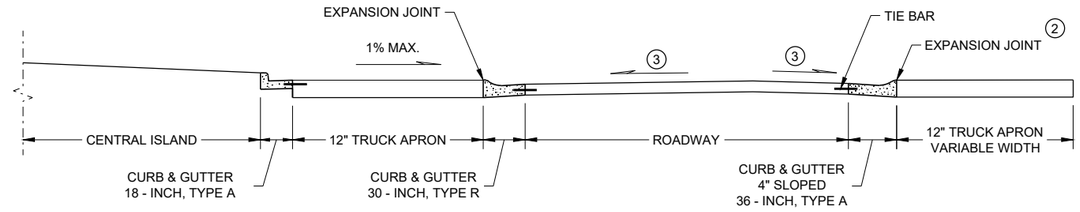
SDD13C18 - 07d

6

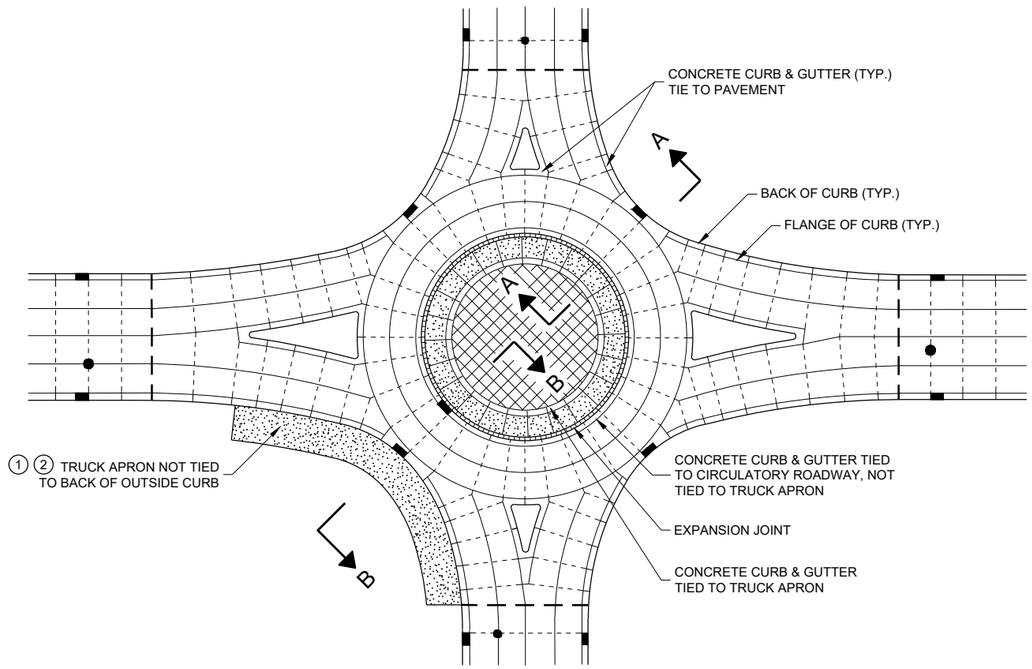
SDD13C18 - 07d



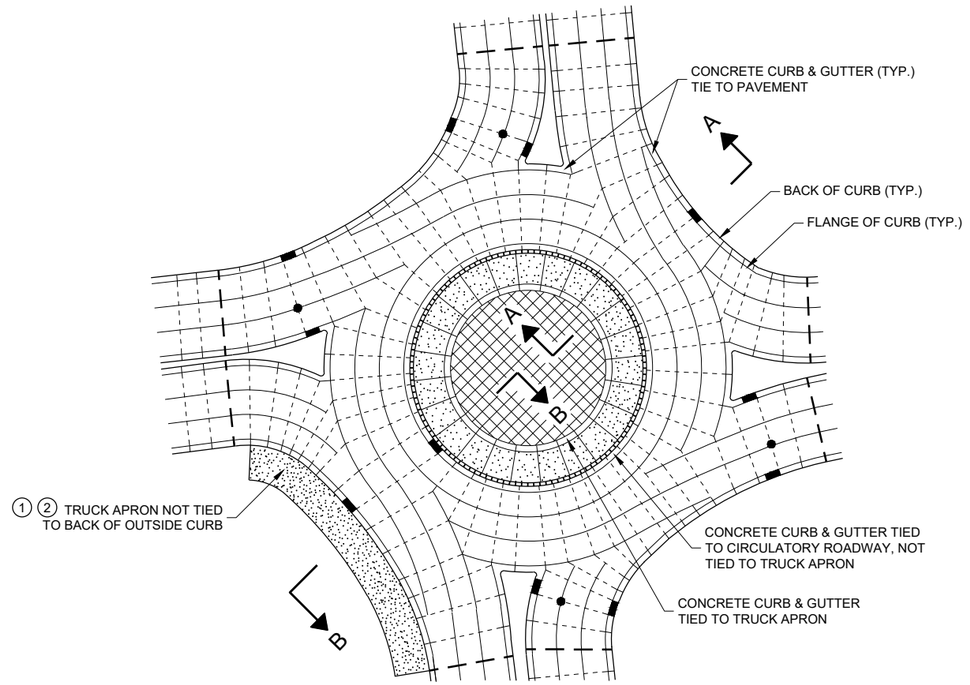
SECTION A - A



SECTION B - B



ISOLATED CIRCLE JOINT LAYOUT FOR ROUNDABOUTS



PINWHEEL JOINT LAYOUT FOR ROUNDABOUTS

GENERAL NOTES

MAXIMUM JOINT SPACING IS IN ACCORDANCE WITH THE TABLE SHOWN ON SDD 13C18 - SHEET "a"

USE EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.

DO NOT DOWEL OR TIE THE TRUCK APRON TRANSVERSE JOINTS.

(1) DESIGNER DETERMINES SIZE AND LOCATION(S) OF TRUCK APRON TO ACCOMODATE TRACKING OF OVERSIZE / OVERWEIGHT VEHICLES.

(2) TIE THE OUTSIDE TRUCK APRON TO THE BACK SIDE OF CURB ONLY WHEN ENTIRE TRUCK APRON IS LESS THAN 3 FEET.

(3) CONFORM TO PLAN CONSTRUCTION DETAILS FOR CIRCULATORY ROADWAY CROSS SLOPE.

LEGEND

- DOWELED JOINT
- TIED JOINT
- EXPANSION JOINT
- POTENTIAL DOWELED EXPANSION JOINT
- TRUCK APRON
- CENTRAL ISLAND
- UTILITY STRUCTURES

CONCRETE PAVEMENT JOINTING AND STEEL REINFORCEMENT IN ROUNDABOUTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

FHWA

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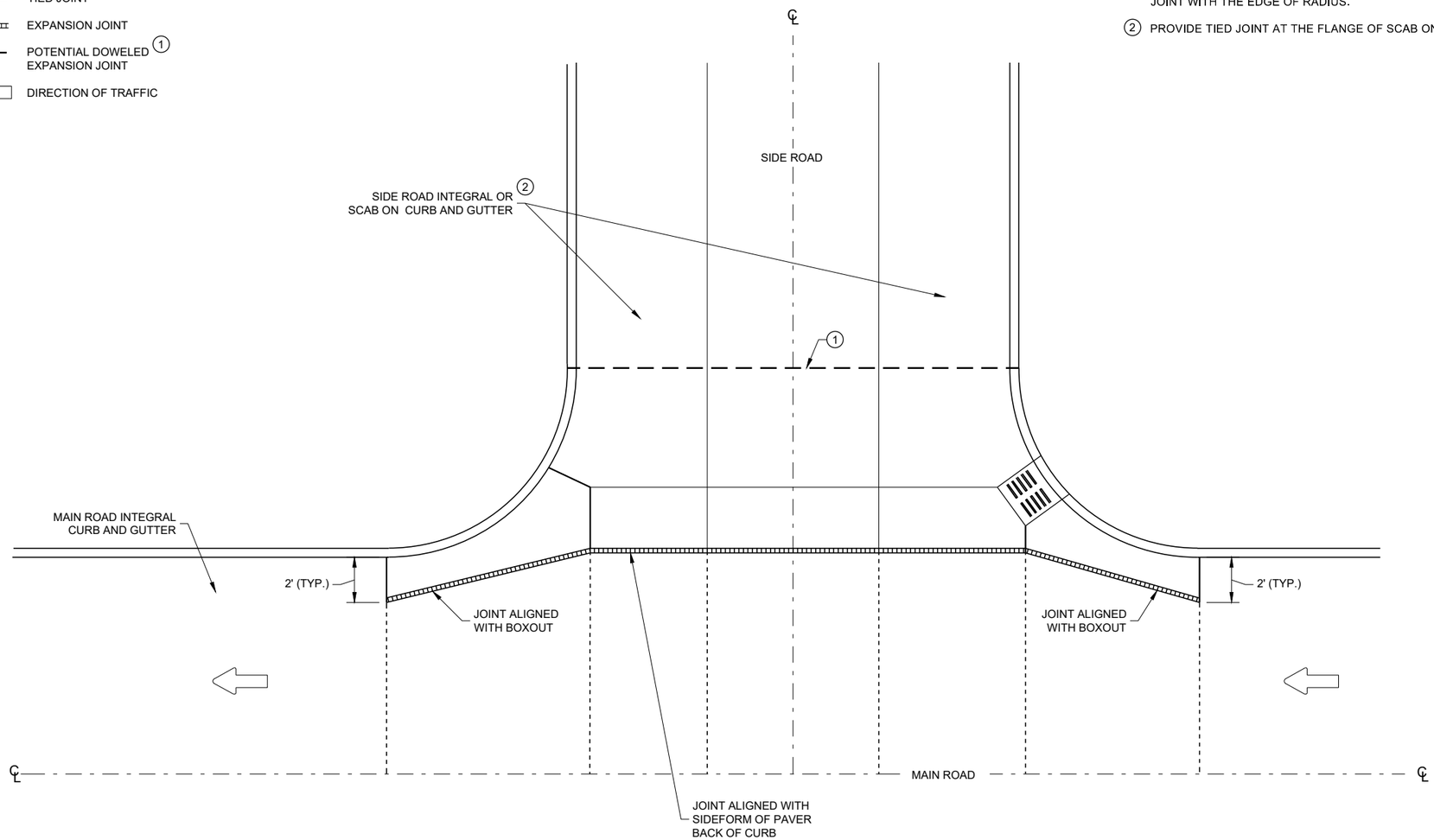
SDD 13C18 - 07e

6

SDD 13C18 - 07e

LEGEND

- DOWELED JOINT
- TIED JOINT
- EXPANSION JOINT
- POTENTIAL DOWELED EXPANSION JOINT (1)
- DIRECTION OF TRAFFIC



GENERAL NOTES

(1) CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH THE EDGE OF RADIUS.

(2) PROVIDE TIED JOINT AT THE FLANGE OF SCAB ON CURB IF SCAB ON CURB AND GUTTER IS USE.

INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER

6

SDD 13C18 - 07f

6

SDD 13C18 - 07f

CONCRETE PAVEMENT INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER

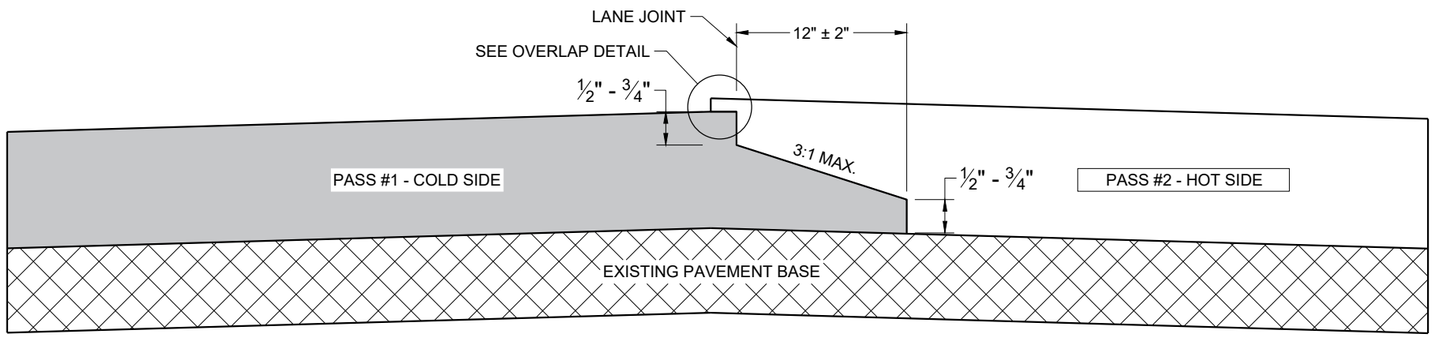
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

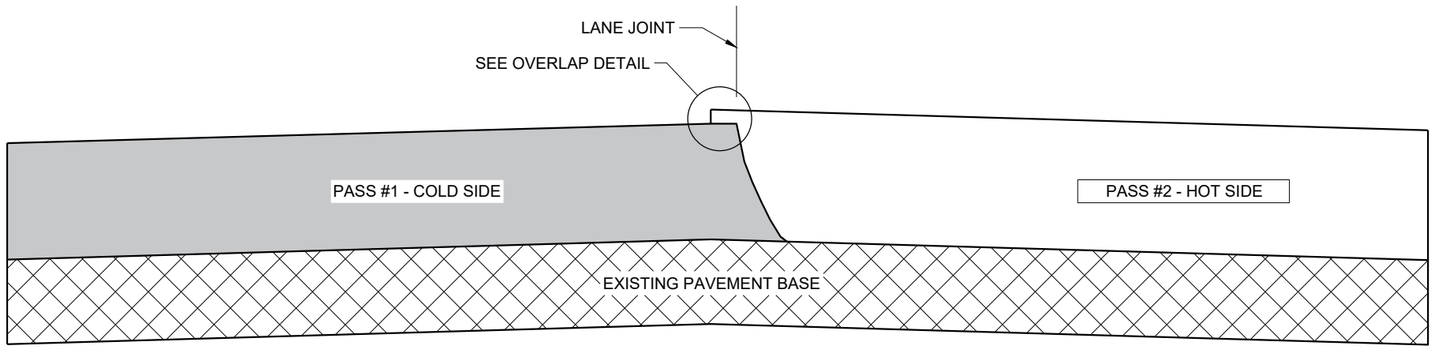
November 2018
DATE

/S/ Peter Kemp P.E.
ROADWAY STANDARDS DEVE ENGINEER

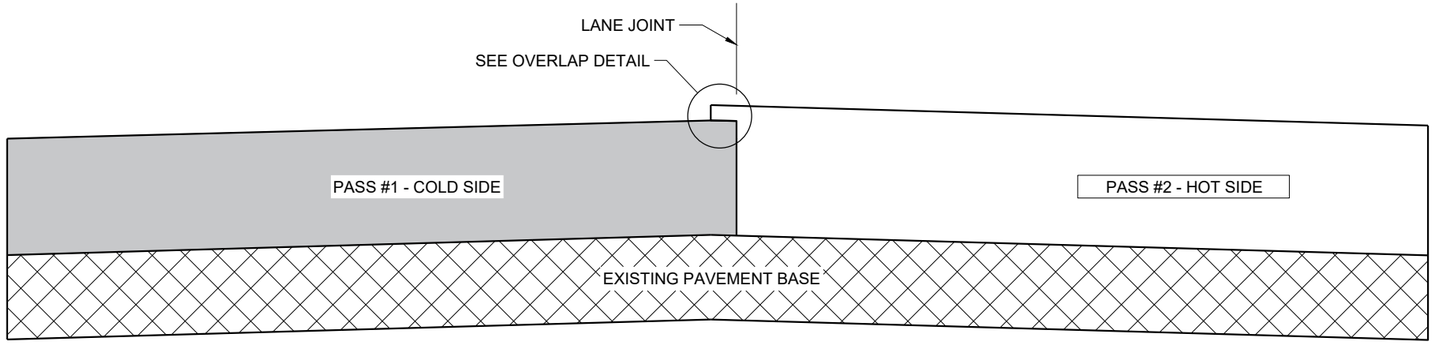
FHWA



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

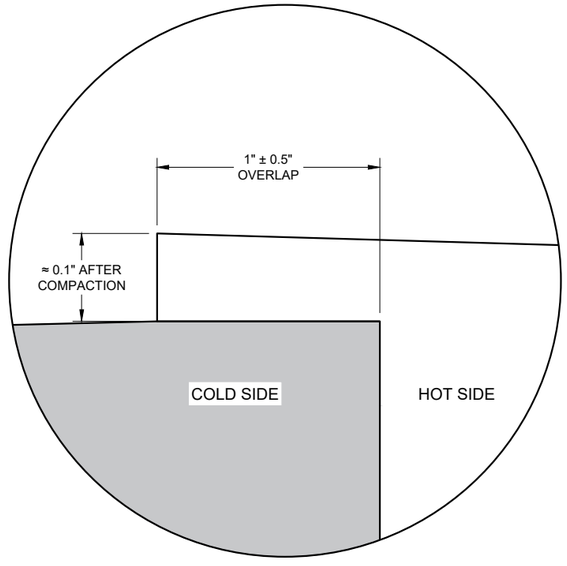
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

FOR ALL LONGITUDINAL JOINTS, ENSURE THE PAVER SCREED OVERLAPS THE PREVIOUSLY PLACED PAVEMENT BY 1" ± 0.5" AND THE HOT SIDE OF THE JOINT REMAINS HIGHER THAN THE COLD SIDE BY APPROXIMATELY 0.1" AFTER FINAL COMPACTION. (IT WILL BE FLUSH WHEN PAVING IN ECHELON.)

ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

WHEN MILLING BACK OR REMOVING ANY LONGITUDINAL JOINT, LIMIT THE MATERIAL REMOVED TO 2" FROM THE TOP NOTCH OR FROM THE VERTICAL JOINT EDGE ON THE COLD SIDE OF THE JOINT.

USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR THE AS THE ENGINEER DIRECTS.



OVERLAP DETAIL (TYPICAL)

6

6

SDD 13C19 - 03

SDD 13C19 - 03

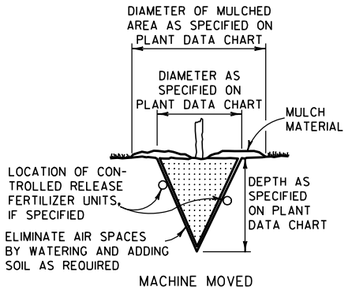
HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

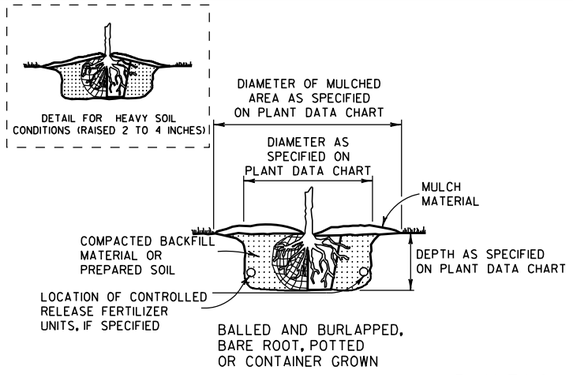
APPROVED
November 2020
DATE

/S/ Steven Hefel
HMA PAVEMENT ENGIN

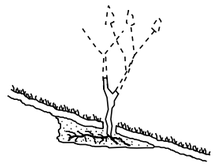
FHWA



MACHINE MOVED

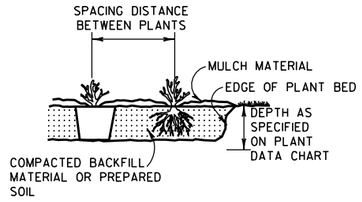


BALLED AND BURLAPPED, BARE ROOT, POTTED OR CONTAINER GROWN



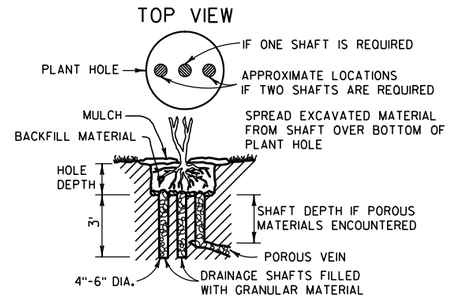
ACCOMMODATE ROOTS (SMOOTH AND STAGHORN SUMAC)

NOTE:
1) ENGINEER SHALL REQUIRE 3 SLITS IN POT TO SPEED DETERIORATION
2) METAL, PLASTIC OR OTHER NONDEGRADABLE POTS SHALL BE REMOVED PRIOR TO PLANTING



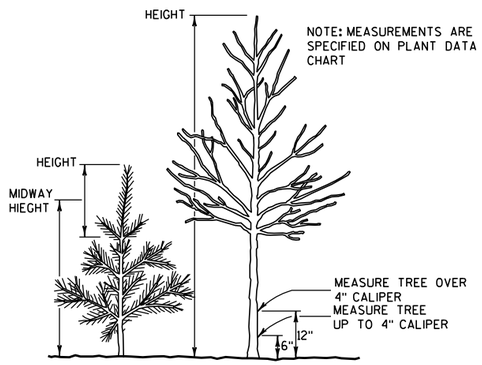
PREPARED BED (BARE ROOT AND POTTED)

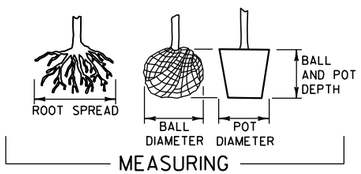
PLANTING



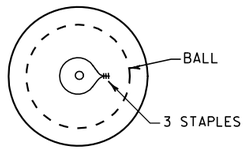
NOTE:
DRAINAGE SHAFT AS SPECIFIED ON PLANT DATA CHART

DRAINING

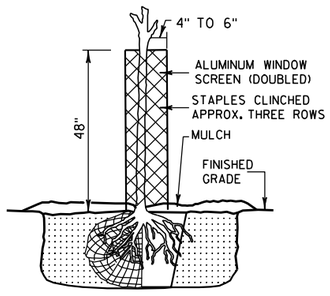




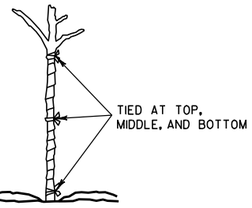
MEASURING



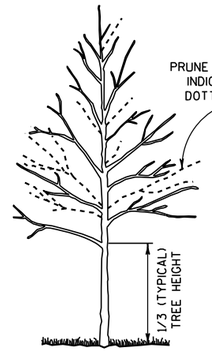
TOP VIEW



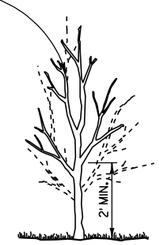
RODENT PROTECTION



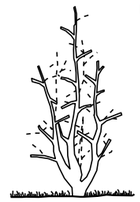
WRAPPING



TALL DECIDUOUS TREES (ASH, MAPLE, LINDEN, OAK)



SINGLE STEMMED LOW DECIDUOUS TREES (CRABS AND OTHER SINGLE STEM TYPE)



MULTI-STEMMED LOW DECIDUOUS TREES OR LARGE SHRUBS (HAWTHORN, SERVICEBERRY)

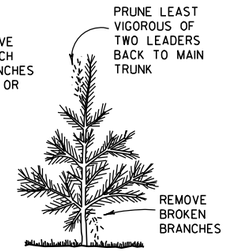
NOTE: WHEN PRUNING, PRESERVE CHARACTER AND SHAPE OF TREE. AVOID LEAVING STUBS - REMOVE BRANCH OR TWIG BACK TO THE NEAREST CROTCH
1) PRUNE TO REMOVE DEAD AND BROKEN BRANCHES
2) PRUNE TO REMOVE BRANCHES THAT TOUCH OR ARE TOO CLOSE TO OTHER BRANCHES



SHRUBS (GRAY DOGWOOD ARROWWOOD VIBURNUM)

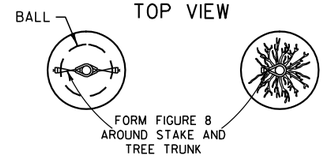


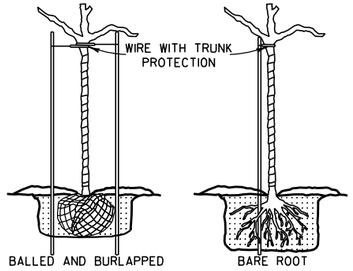
SUMAC

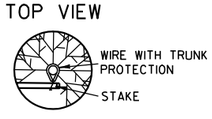


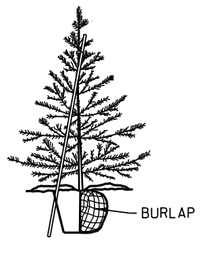
TREE TYPE EVERGREENS (PINE, SPRUCE, FIR) EVERGREENS USUALLY ARE NOT PRUNED

PRUNING



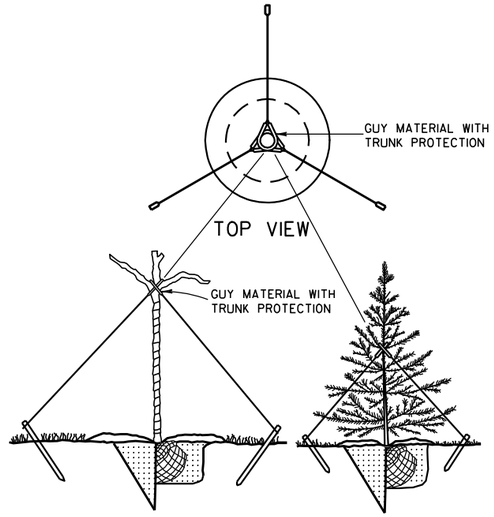






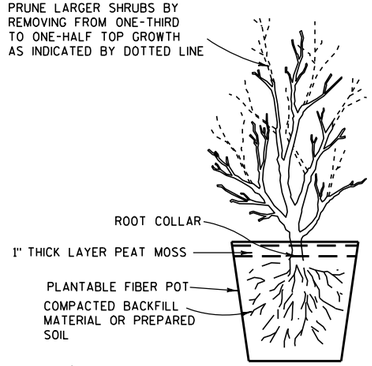
NOTE: BRACING STAKE
1) SHALL BE DRIVEN INTO THE GROUND AS CLOSE TO THE TREE AS POSSIBLE WITHOUT DAMAGING THE BRANCHES.
2) MAY BE DRIVEN AT SUCH AN ANGLE THAT IT DOES NOT PENETRATE THE BALL OR POT.
3) SHALL NOT PROTRUDE ABOVE THE TOP OF THE TREE; AND
4) SHALL HAVE A HOLE NEAR THE TOP TO HOLD THE WIRE IN PLACE.

BRACING



GUYING

PRUNE LARGER SHRUBS BY REMOVING FROM ONE-THIRD TO ONE-HALF TOP GROWTH AS INDICATED BY DOTTED LINE



POTTING

NOTES

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

BRACING, WRAPPING, GUYING, RODENT PROTECTION, FERTILIZER AND MULCH SHALL BE USED ONLY WHEN SPECIFIED ON THE PLANT DATA CHART (PART OF PLAN) OR SPECIAL PROVISIONS.

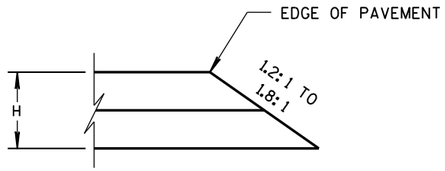
TREE PLANTING DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/11/94
DATE
/S/ Rory L. Rhinesmith
CHIEF METHODS DEVELOPMENT ENGINEER
FHWA

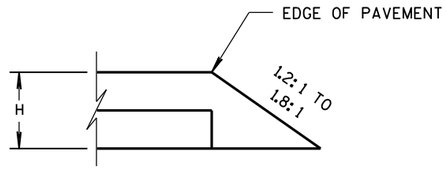
S.D.D. 14 A 2-1

S.D.D. 14 A 2-1



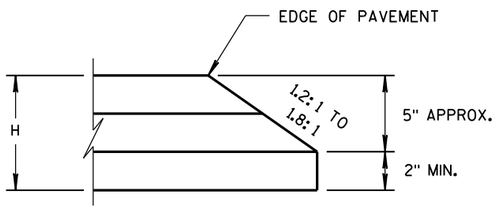
CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS



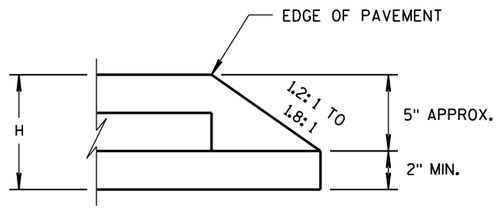
CONSTRUCTED WITH FINAL LAYER

FOR H 5" OR LESS



CONSTRUCTED WITH FINAL TWO LAYERS

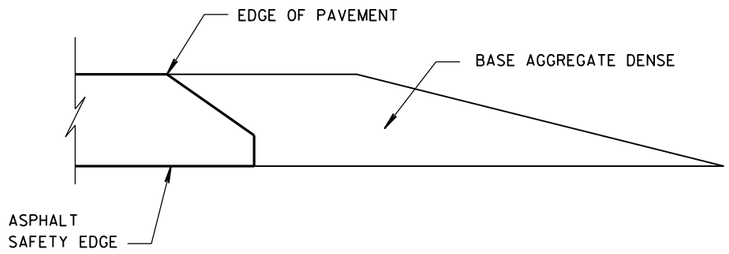
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

6

6

S.D.D. 14 B 29-1

S.D.D. 14 B 29-1

SAFETY EDGE SM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/2012
DATE

/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

(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.

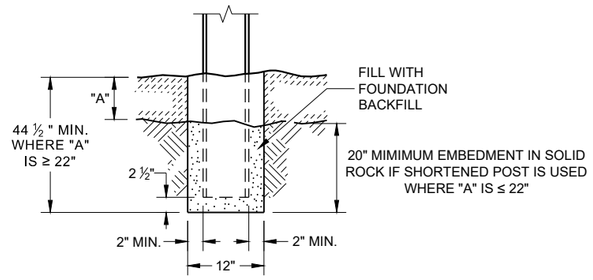
(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL 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).

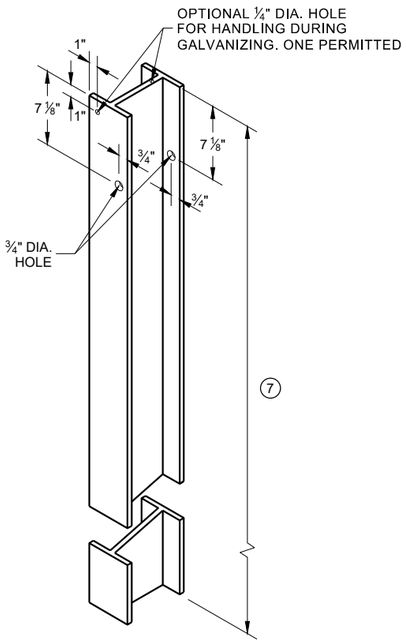
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ±1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 ¾" TO 32".

(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.

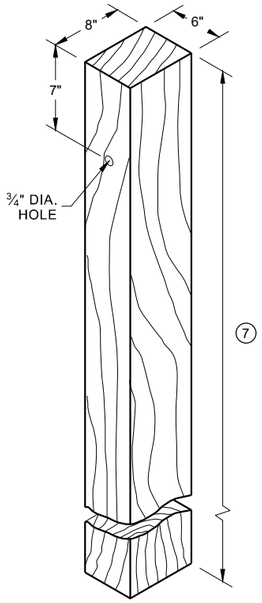
(7) TOTAL POST LENGTH FOR TYPE K IS 7' - 0".
TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' - 0".



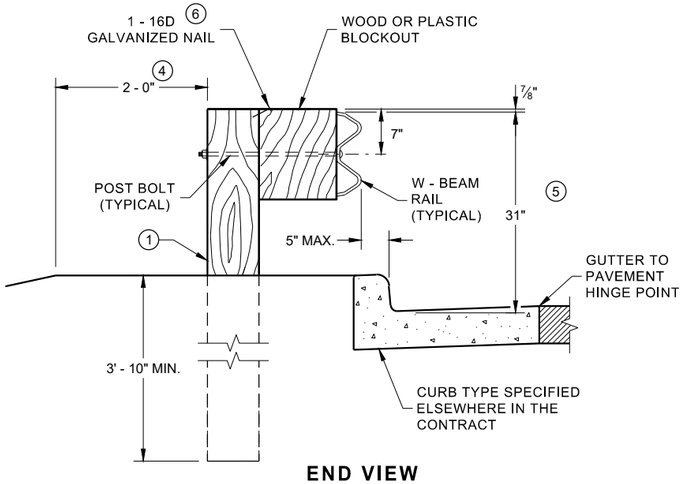
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



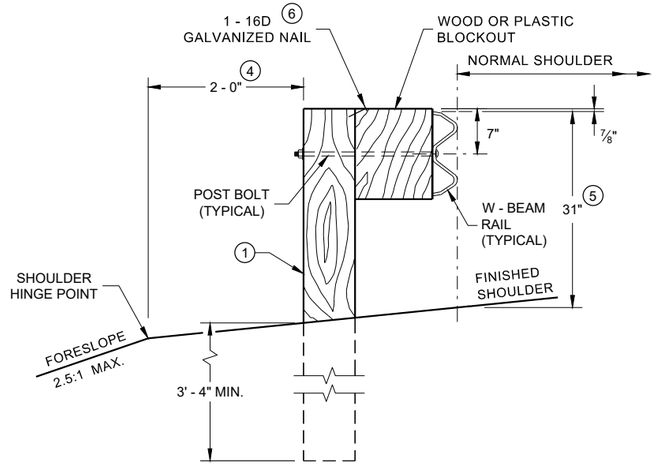
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



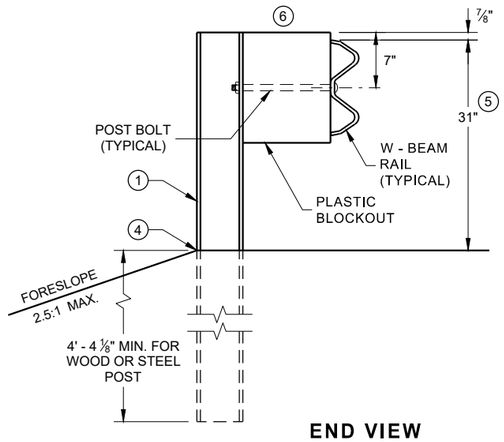
WOOD POST (6" X 8") NOMINAL (1)



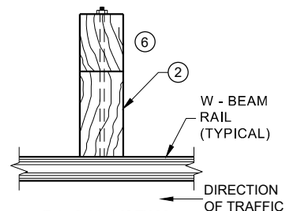
END VIEW
LOCATED ALONG A CURBED ROADWAY



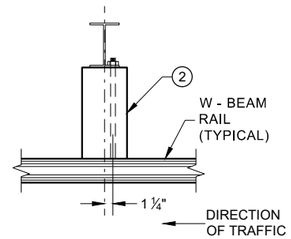
END VIEW
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



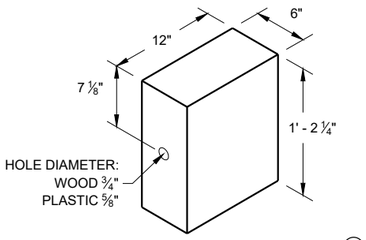
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, PLASTIC BLOCKOUT & BEAM



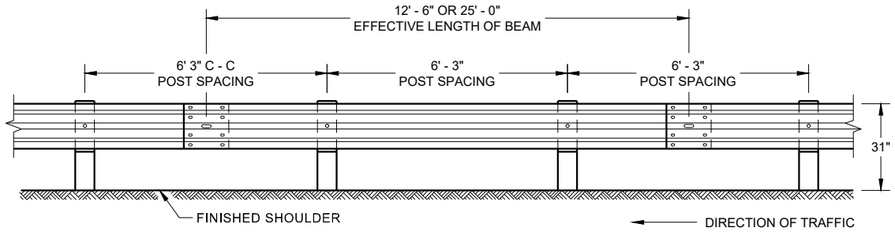
WOOD OR PLASTIC BLOCKOUT (2)

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

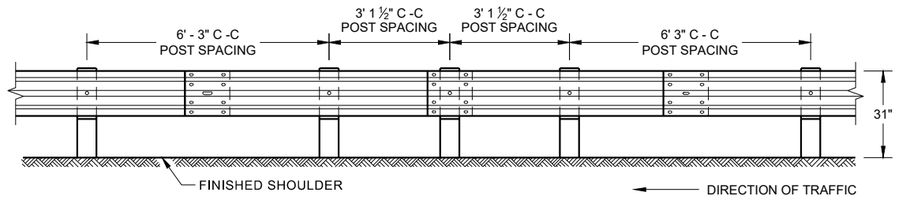
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B42 - 07a

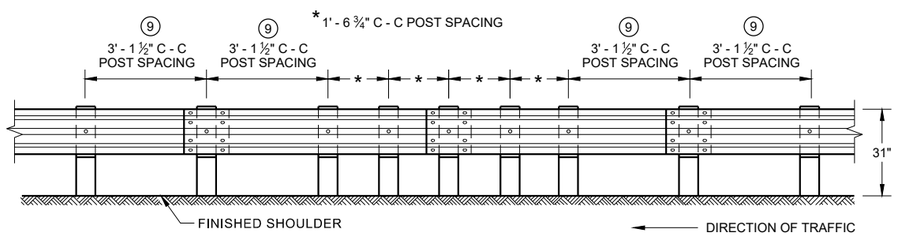
6
SDD 14B42 - 07a



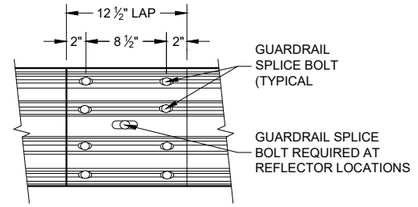
FRONT VIEW
POST SPACING STANDARD INSTALLATION



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



FRONT VIEW
QUARTER POST SPACING (QS)



FRONT VIEW
MID-SPAN BEAM SPLICE

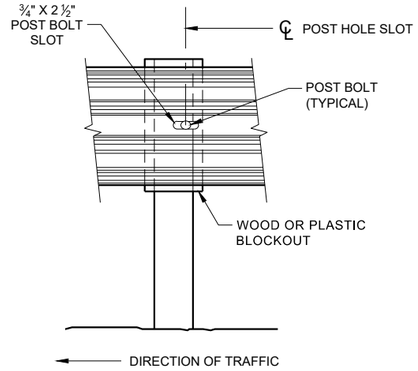
GENERAL NOTES

⑧ DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

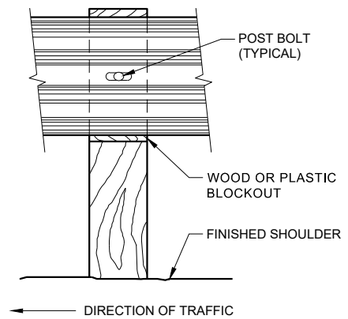
⑨ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

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.

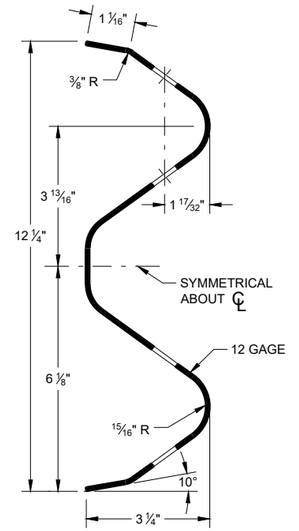
GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



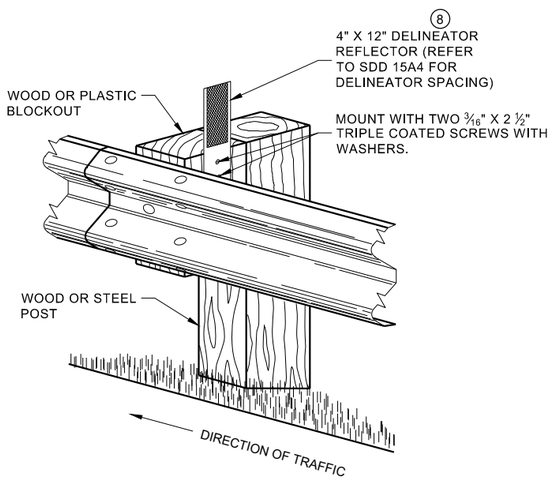
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL

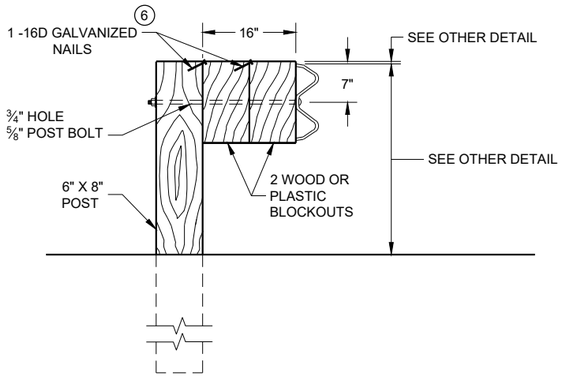


ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
SDD 14B42 - 07b

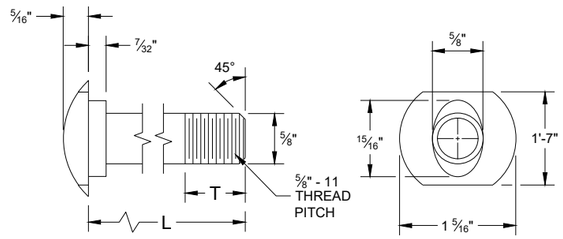


DETAIL FOR 16" BLOCKOUT DEPTH

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.

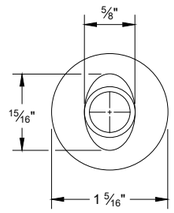
NOTE:

1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 3⁄16".
2. IF THE BOLT EXTENDS MORE THAN ¼" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

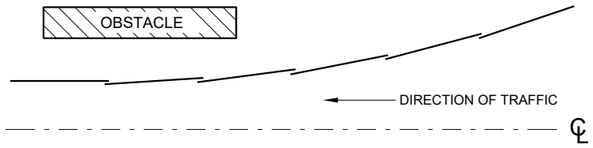


POST BOLT TABLE

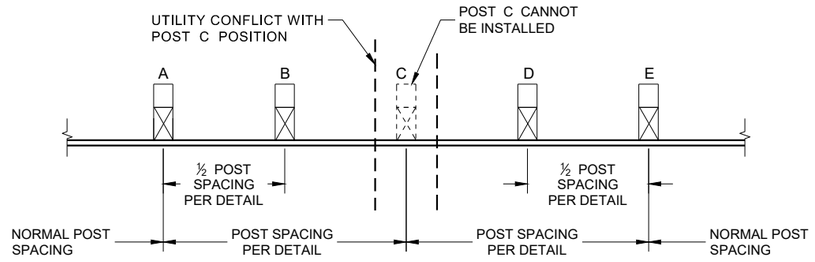
L	T (MIN.)
1 ¼"	1 ⅛"
2"	1 ¾"
10"	4"
14"	4 1⁄16"
18"	4"
21"	4 1⁄16"
25"	4"



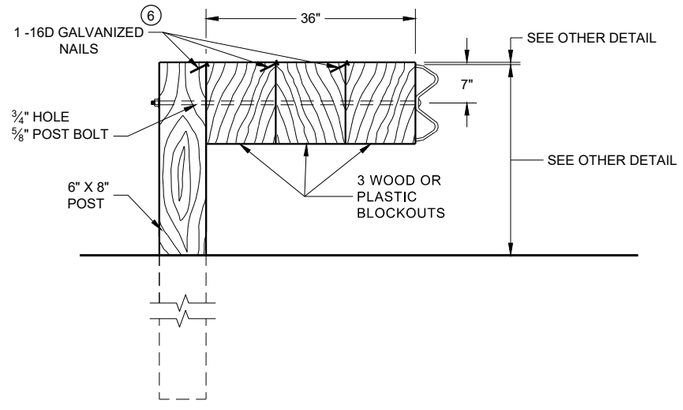
ALTERNATE BOLT HEAD



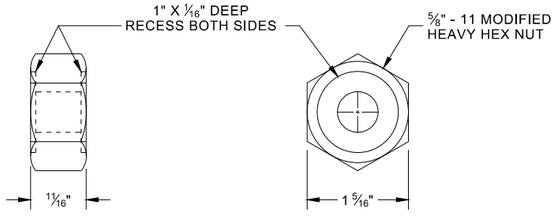
PLAN VIEW
BEAM LAPPING DETAIL



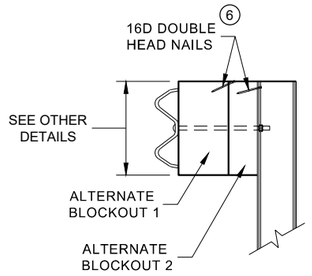
POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



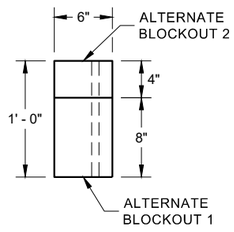
DETAIL FOR 36" BLOCKOUT DEPTH



POST BOLT, SPLICE BOLT AND RECESS NUT



SIDE VIEW



PLAN VIEW

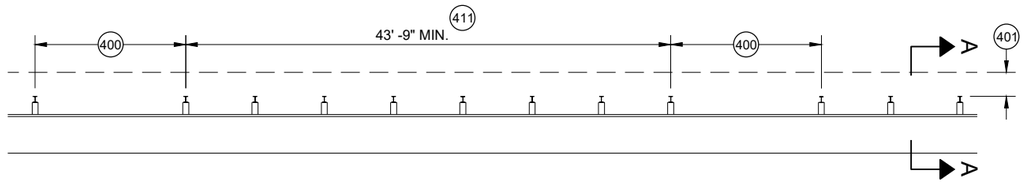
ALTERNATE WOOD BLOCKOUT DETAIL

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.

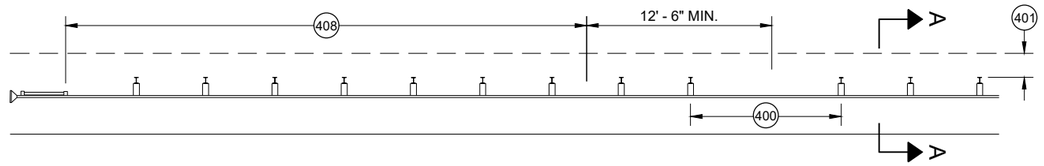
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

(6) WHEN USING STEEL POST AD 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.

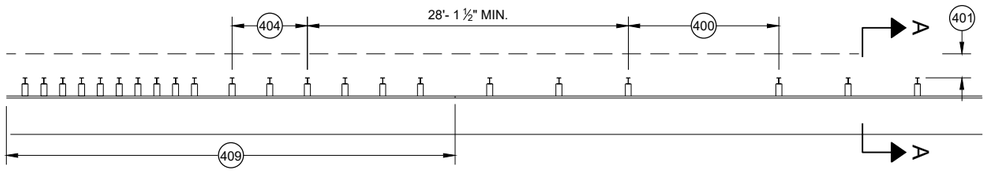
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL



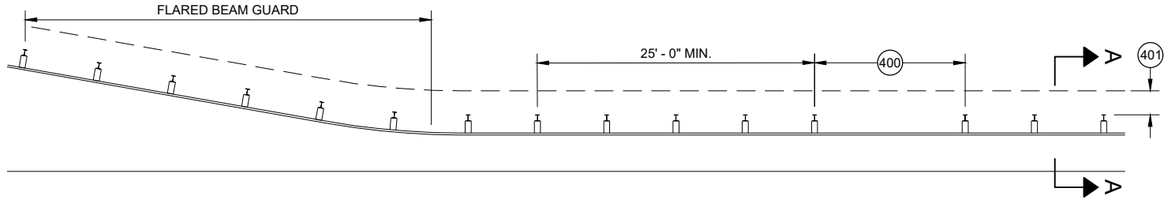
MISSING POST IN MGS GUARDRAIL



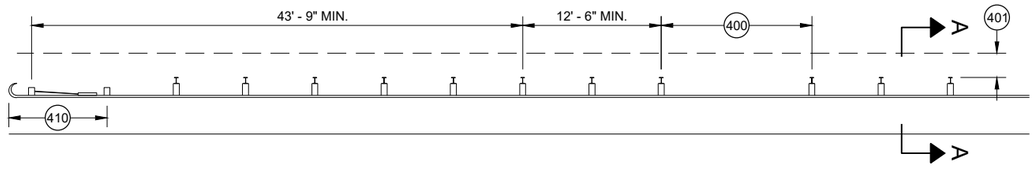
MISSING POST IN MGS GUARDRAIL NEAR EAT



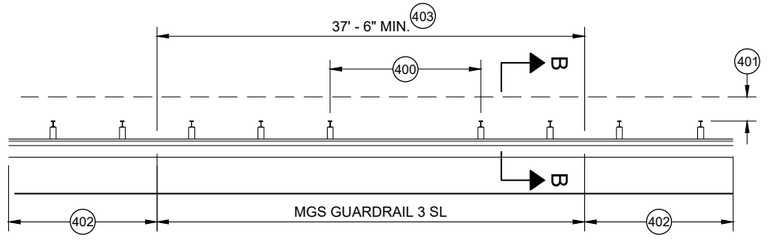
MISSING POST IN MGS GUARDRAIL NEAR AN APPROACH TRANSITION



MISSING POST IN MGS GUARDRAIL NEAR FLARED BEAM GUARD

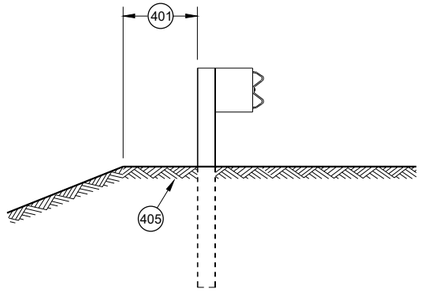


MISSING POST IN MGS GUARDRAIL NEAR A TYPE 2 END TERMINAL

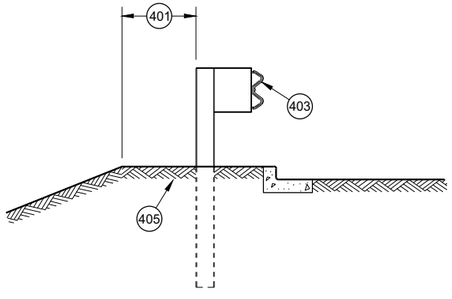


MISSING POST IN SHORT SPAN MGS GUARDRAIL NEAR CURB (SL) 407

(400) MAX SPAN 12' - 6"
(401) 2' MIN.
(402) MGS GUARDRAIL 3
(403) NESTING BEAM GUARD
(404) ASYMMETRIC TRANSITION
(405) SOIL WELL DRAINED AND COMPACTED
(406) SEE OTHER DRAWINGS IN THIS SDD
(407) SEE OTHER DRAWINGS FOR MIN. SPACING BETWEEN SPANS
(408) SEE SDD 14B44
(409) SEE SDD 14B45
(410) SEE SDD 14B47
(411) MINIMUM DISTANCE BETWEEN MISSING POST SPANS.



SECTION A - A 406



SECTION B - B 406

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2021
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
UNIT SUPERVISOR

FHWA

6

SDD 14B42 - 07d

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 MANUFACTURERS REQUIRE DIFFERENT PERFORATED W - BEAM RAIL END PANELS. SEE MANUFACTURER'S INFORMATION.

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

(E) HARDWARE MAY VARY BETWEEN MANUFACTURER. SEE MANUFACTURER'S DRAWING FOR INFORMATION.

DIMENSIONS MAY VARY, MANUFACTURER'S INFORMATION.

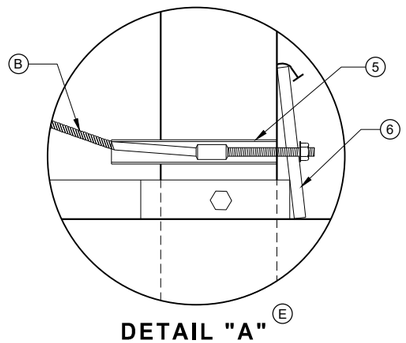
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

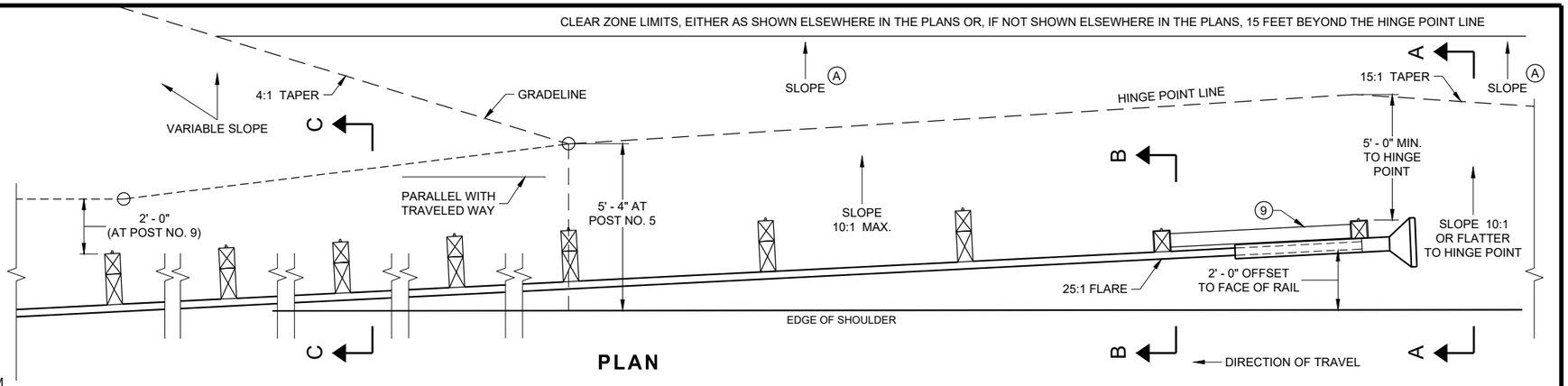
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

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

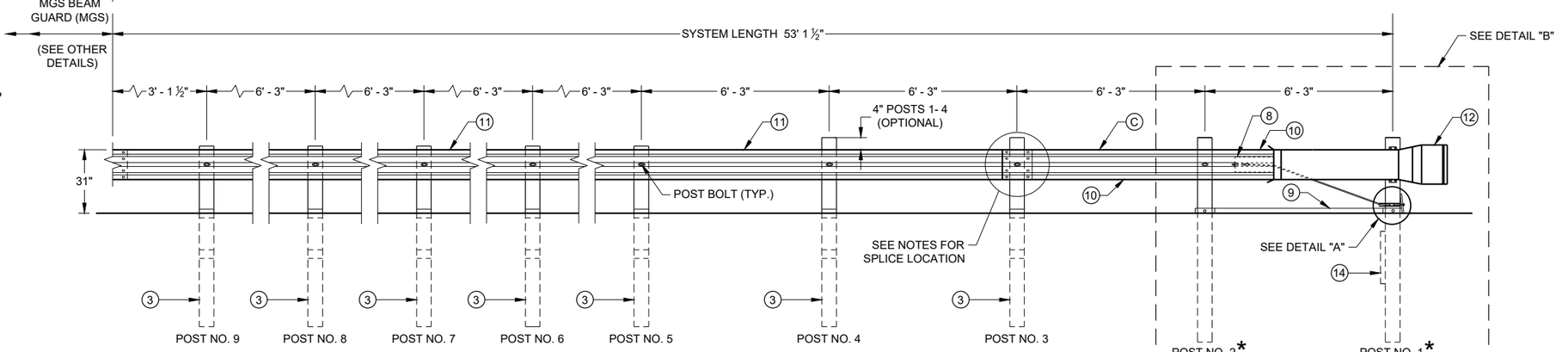
THE CENTER OF THE UPPER 3 ½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST.



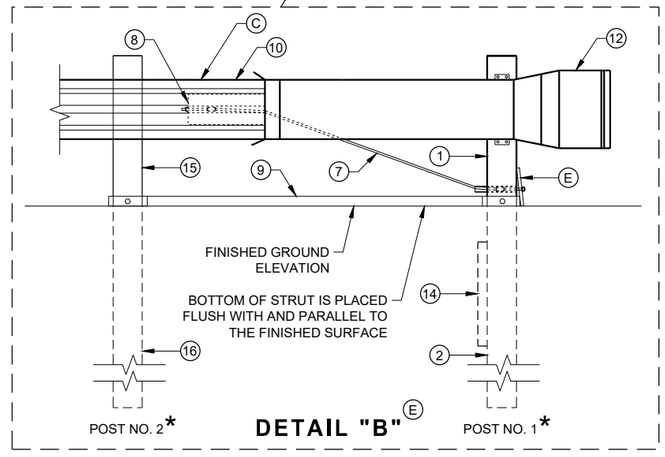
DETAIL "A" (E)



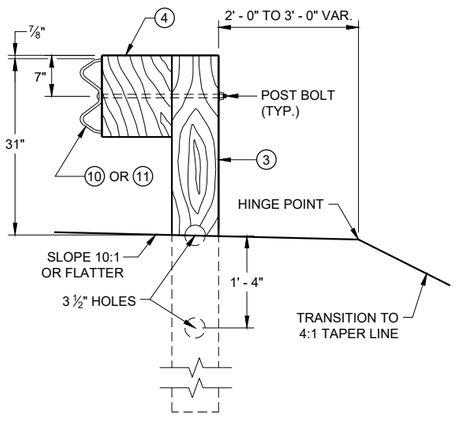
PLAN



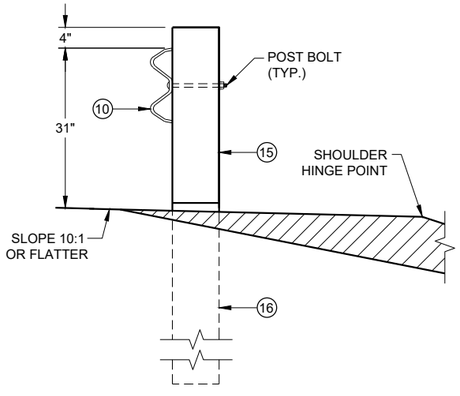
ELEVATION



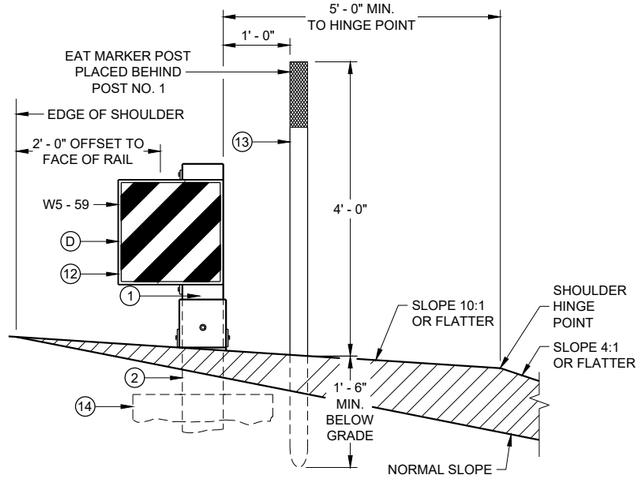
DETAIL "B" (E)



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



SECTION B - B
TYPICAL AT POST NO. 2*



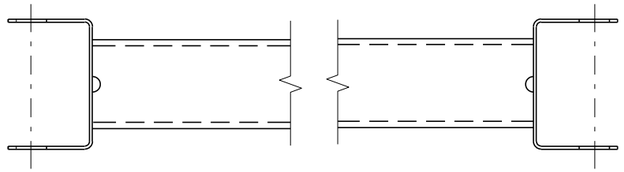
SECTION A - A
TYPICAL AT POST NO. 1*

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B44 - 04a

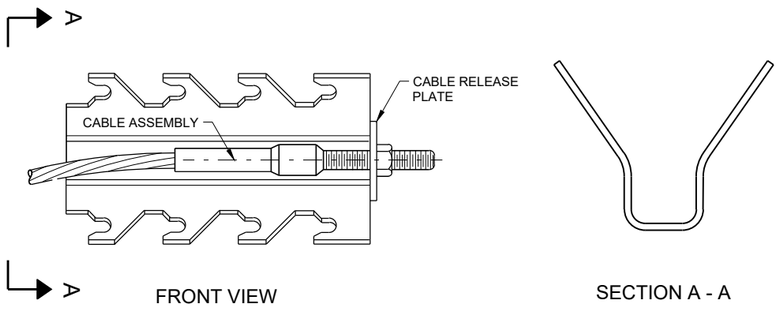
SDD 14B44 - 04a



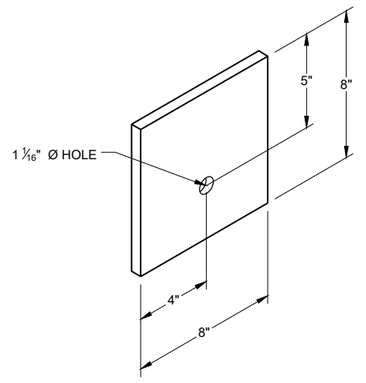
GENERIC GROUND STRUT ⑨ Ⓔ

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUGACTURER'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



GENERIC ANCHOR CABLE BOX ⑧ Ⓔ



BEARING PLATE ⑥ Ⓔ

6

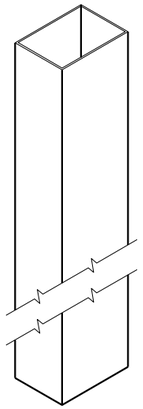
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SDD 14B44 - 04b

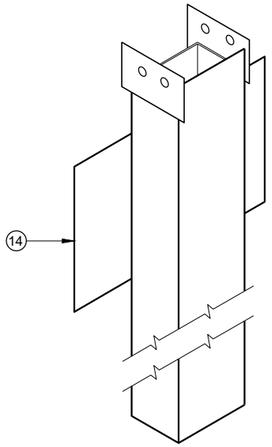
SDD 14B44 - 04b

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

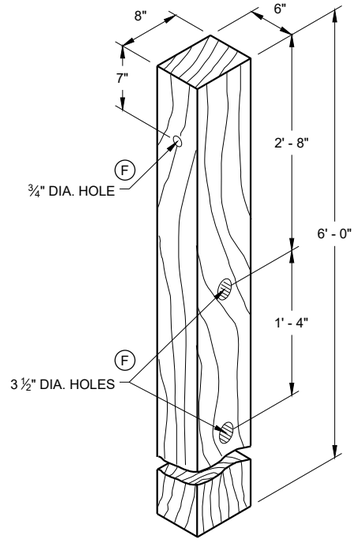
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



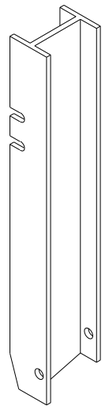
UPPER POST NO. 1 (1) (E)



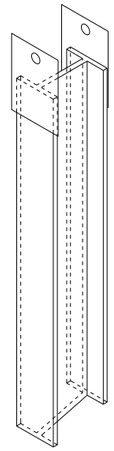
LOWER POST NO. 1 (2) (E)



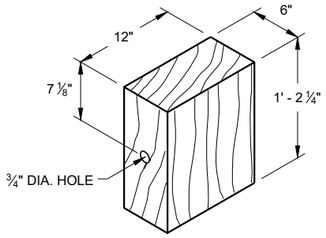
WOOD CRT POST (3) (E)
POSTS NUMBER 3-9



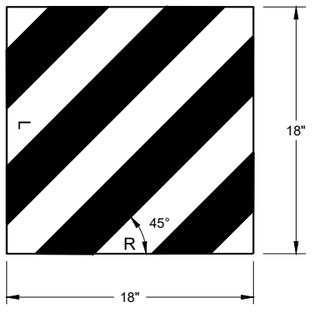
UPPER POST NO. 2 (15) (E)



LOWER POST NO. 2 (16) (E)

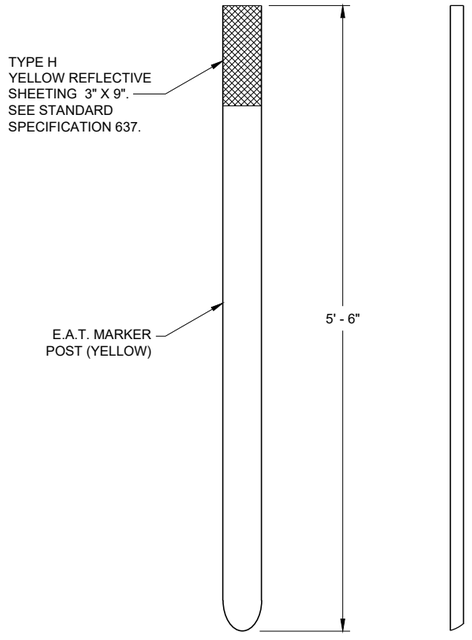


WOOD BLOCKOUT (4)
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



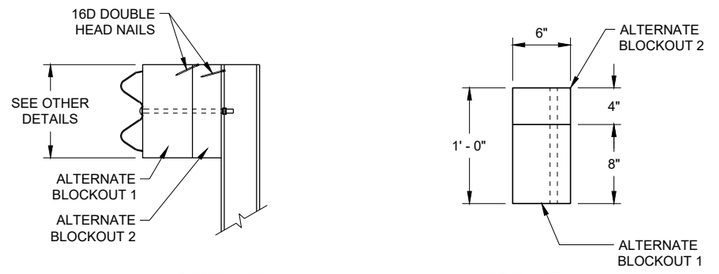
W5 - 59

REFLECTIVE SHEETING DETAIL (E)



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)

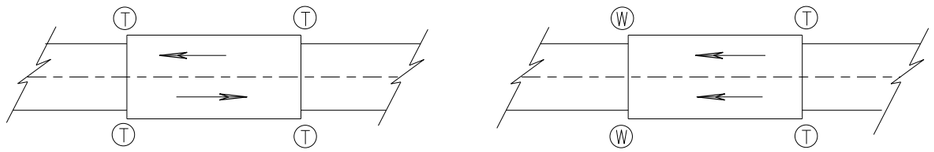
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
UNIT SUPERVISOR

FHWA

6

SDD 14B44 - 04c



TWO WAY TRAFFIC

ONE WAY TRAFFIC

(T) THRIE BEAM CONNECTION

(W) 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.

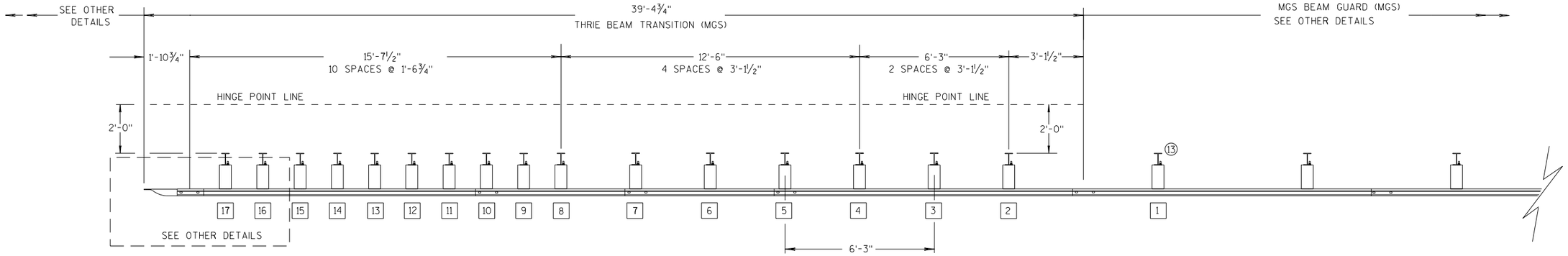
SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

POST 2 THROUGH 17 USES STEEL POST ONLY

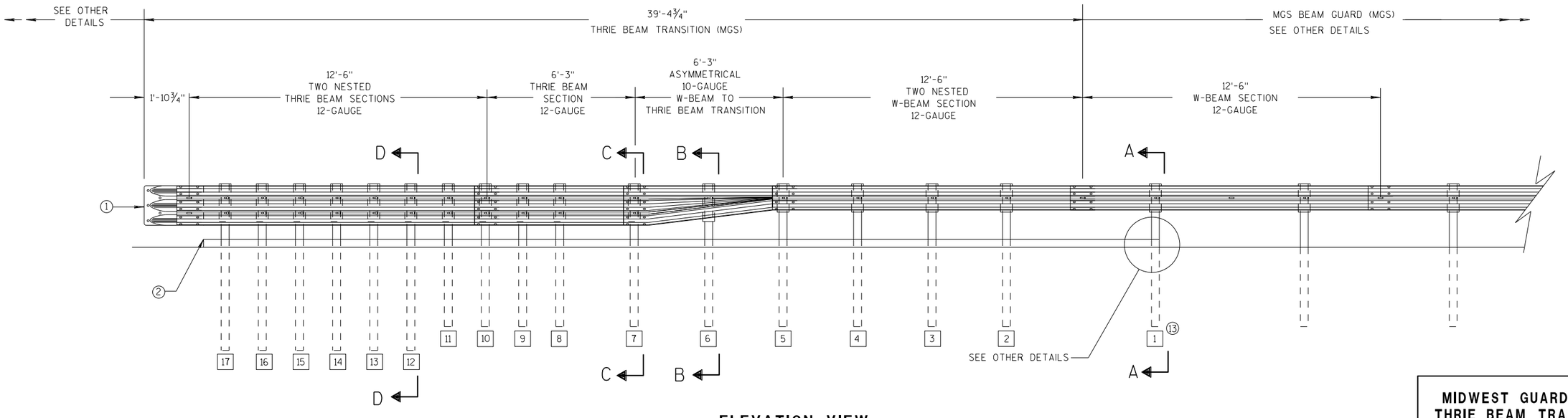
(1) BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

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

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD14B42



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 14 B 45-5a

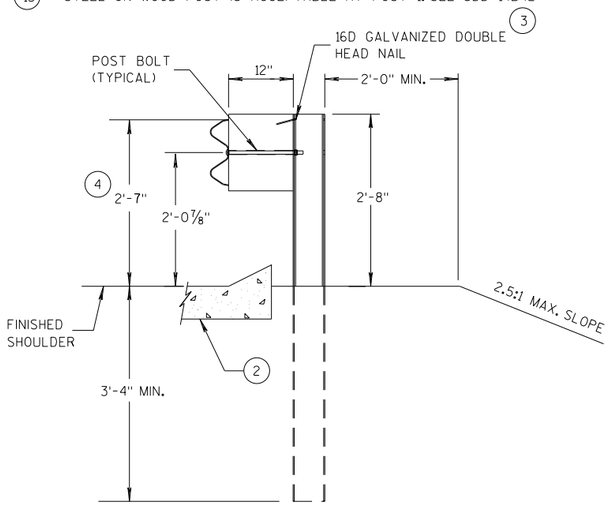
GENERAL NOTES

(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.

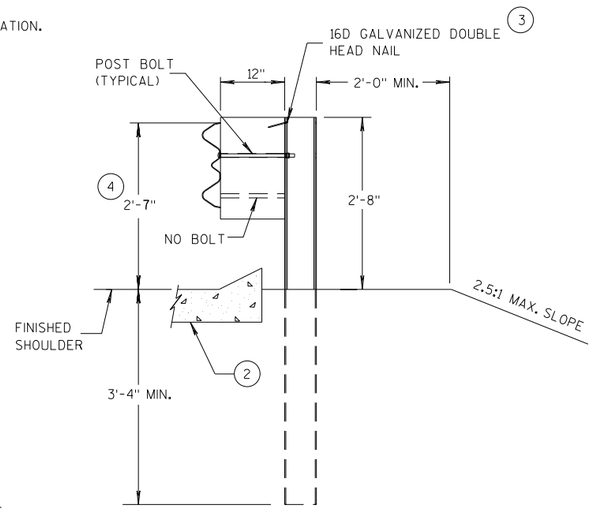
(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42



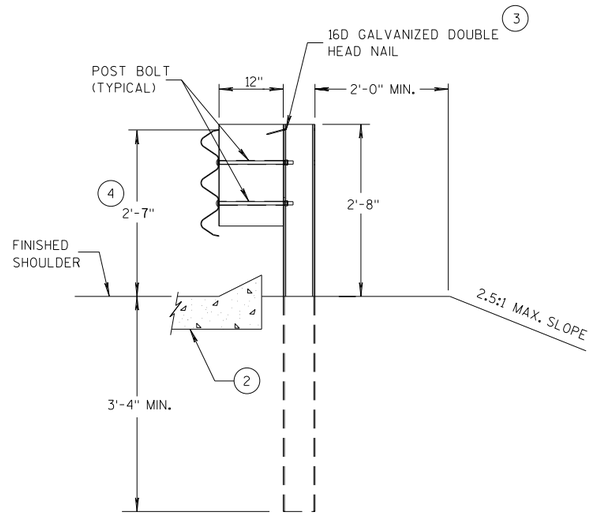
SECTION A-A (13)

POSTS 1-5



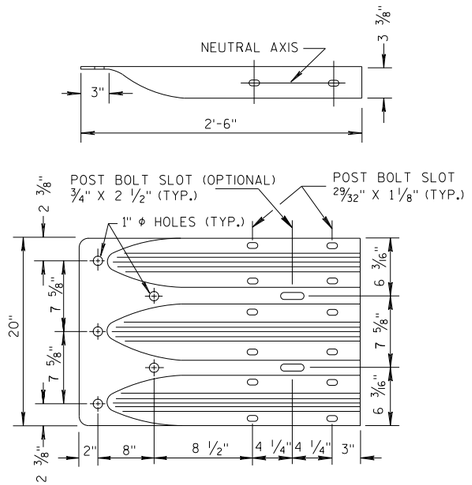
SECTION B-B

POST 6

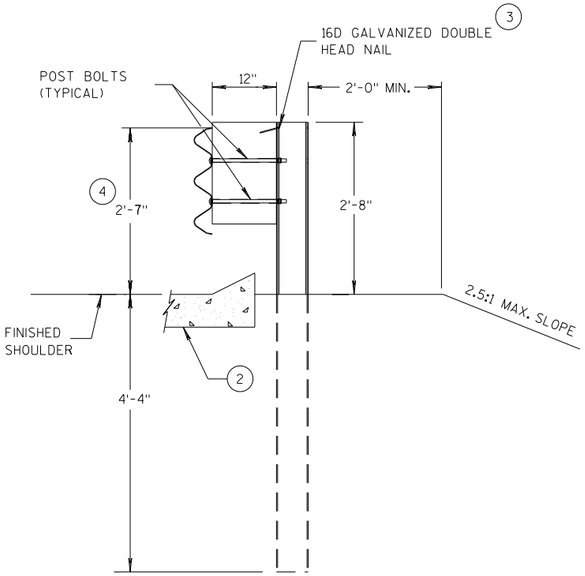


SECTION C-C

POSTS 7-11

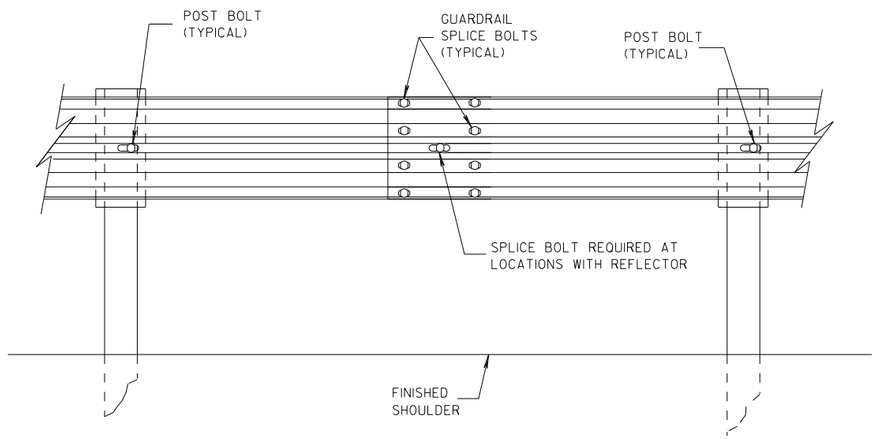


THRIE BEAM TERMINAL CONNECTOR



SECTION D-D

POSTS 12-17



SPLICE DETAIL

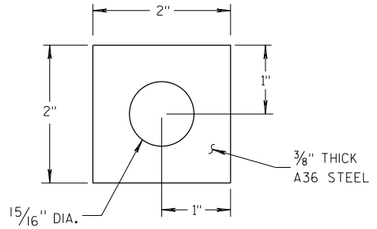
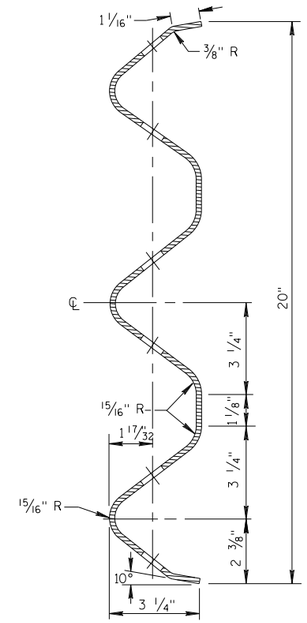


PLATE WASHER DETAIL



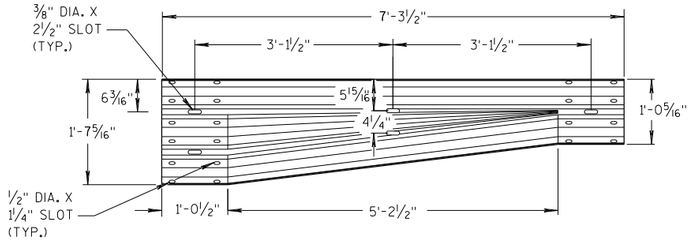
SECTION THRU THRIE BEAM RAIL ELEMENT

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

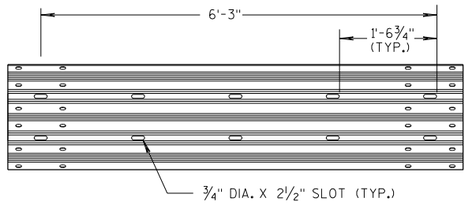
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOF

6

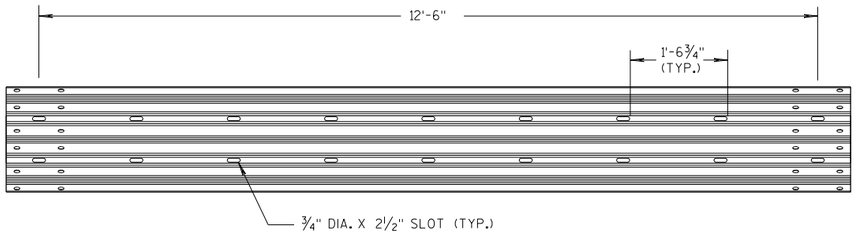
S.D.D. 14 B 45-5b



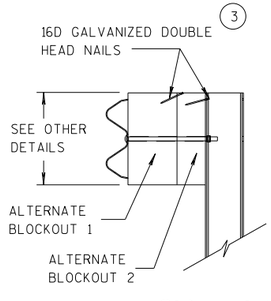
W-BEAM TO THRIE BEAM TRANSITION SECTION



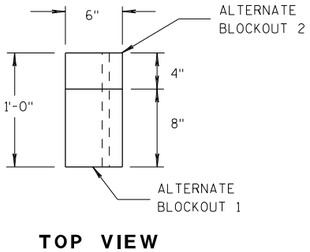
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

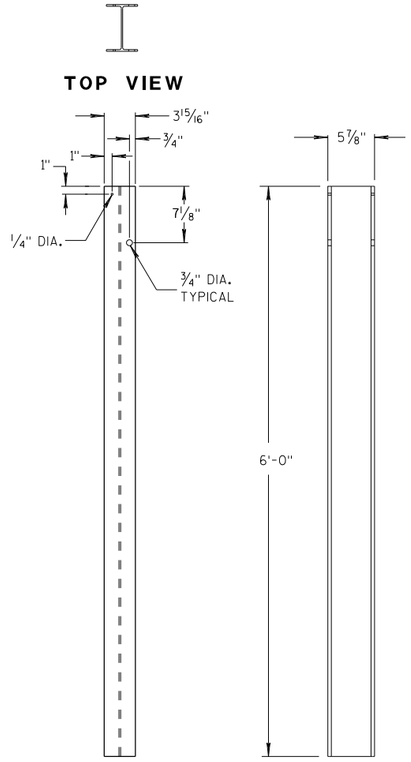


SIDE VIEW



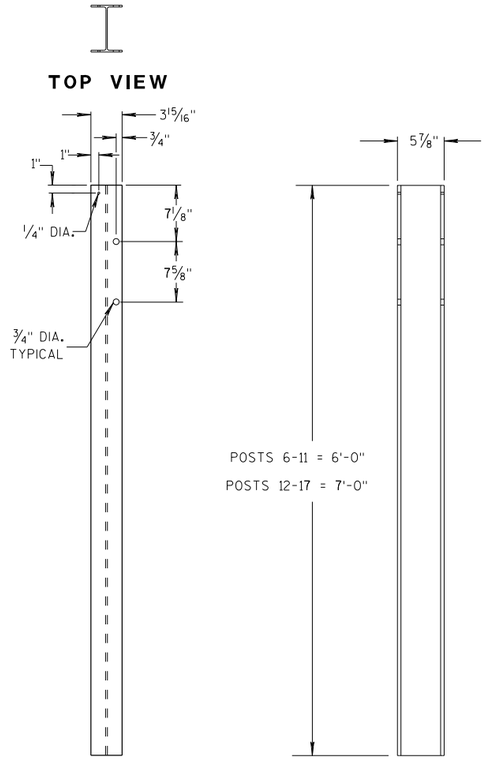
TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL



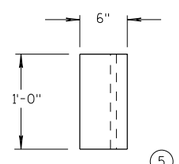
FRONT VIEW SIDE VIEW

STEEL POSTS 1-5 (13)

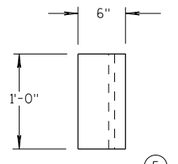


FRONT VIEW SIDE VIEW

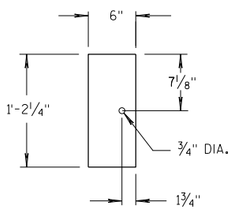
STEEL POSTS 6-17



TOP VIEW (5)

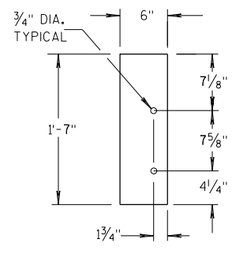


TOP VIEW (5)



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.

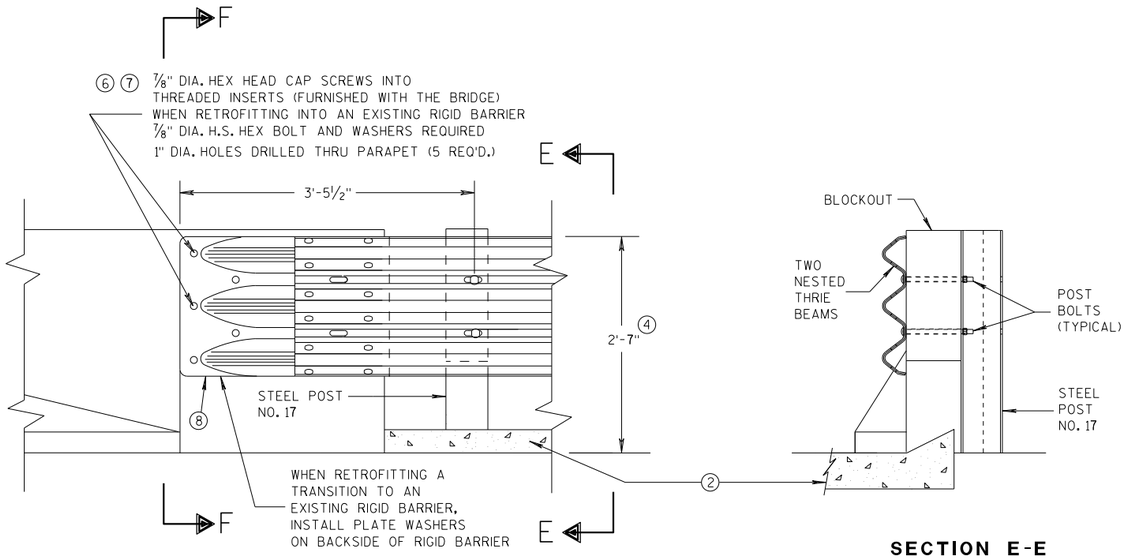
(5) WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOF 141

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S.D.D. 14 B 45-5c



FRONT VIEW

SECTION E-E

THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

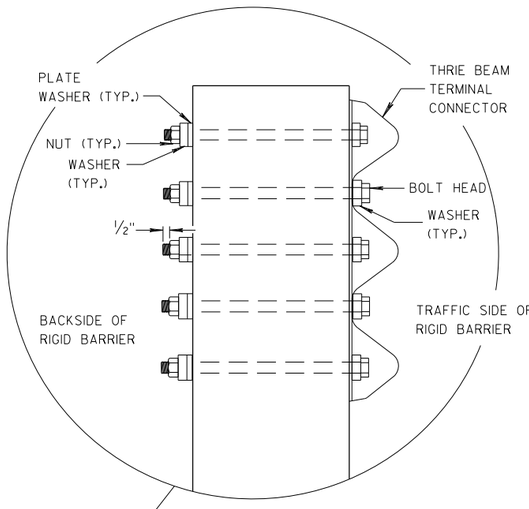
② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

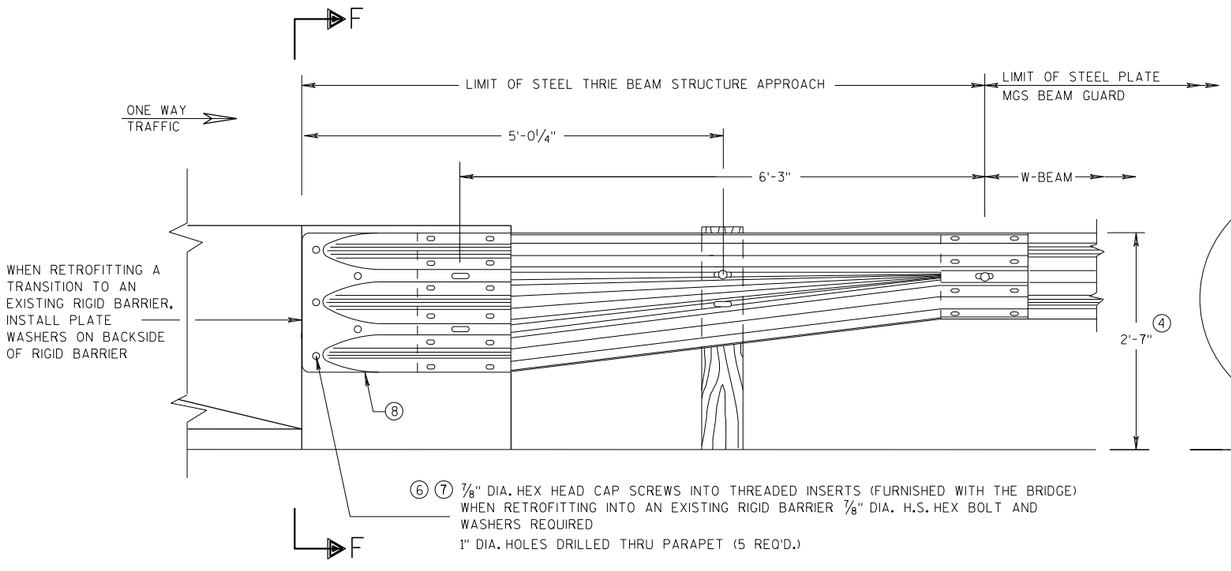
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

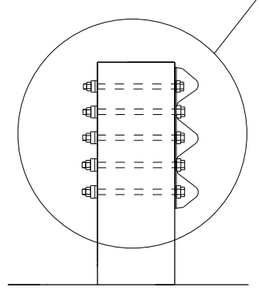
⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

⑧ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

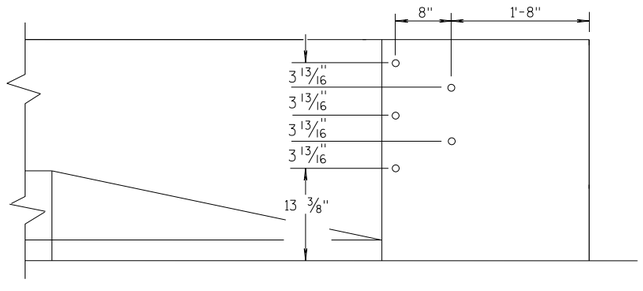




FRONT VIEW



SECTION F-F



DRILL HOLE LOCATION

W BEAM TRANSITION AND CONNECTION TO BRIDGE PARAPETS WITH SQUARE ENDS

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS D UNIT SUPERVIS NT
FHWA

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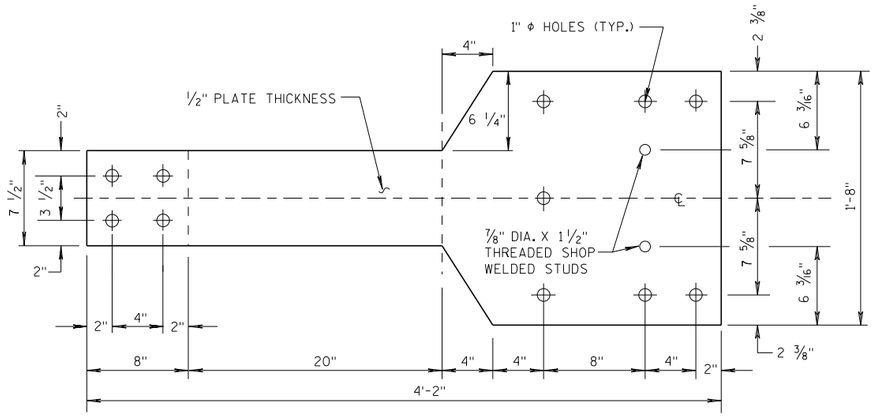
S.D.D. 14 B 45-5d

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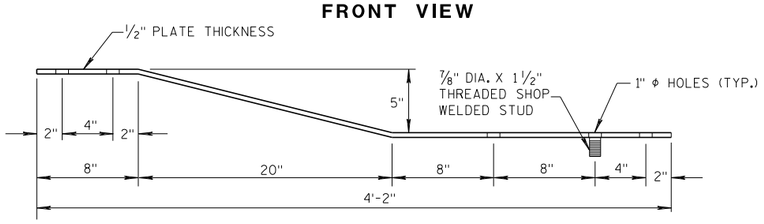
S.D.D. 14 B 45-5d

GENERAL NOTES

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

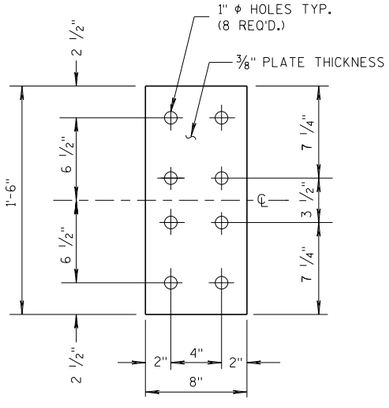


FRONT VIEW

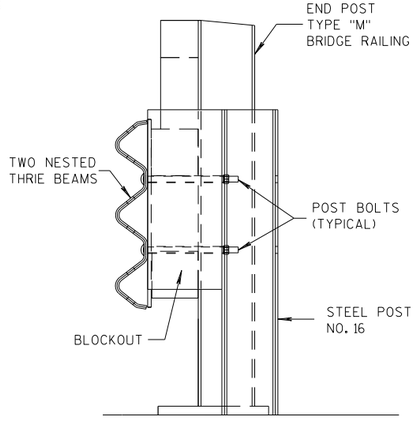


PLAN VIEW

BACK-UP PLATE DETAIL, TYPE "M"

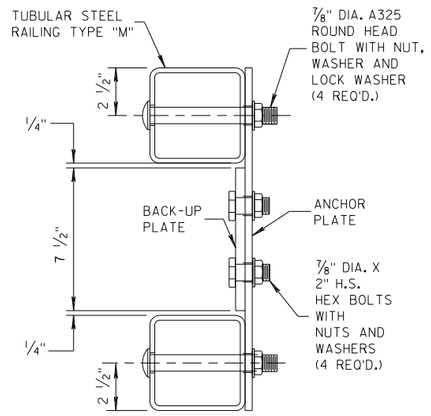


FRONT VIEW

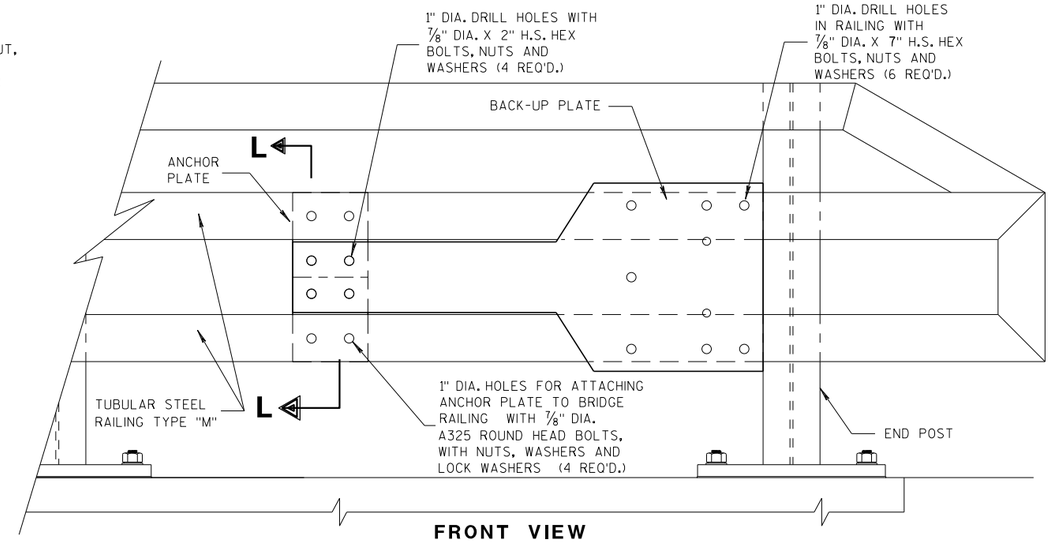


SECTION M-M

ANCHOR PLATE DETAIL, TYPE "M"

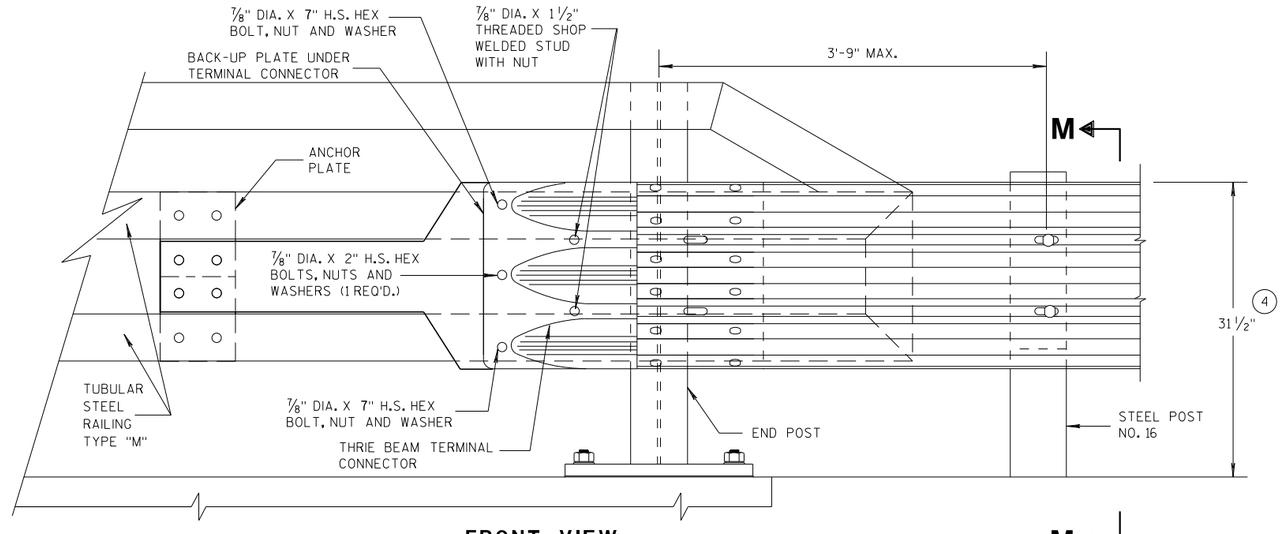


SECTION L-L

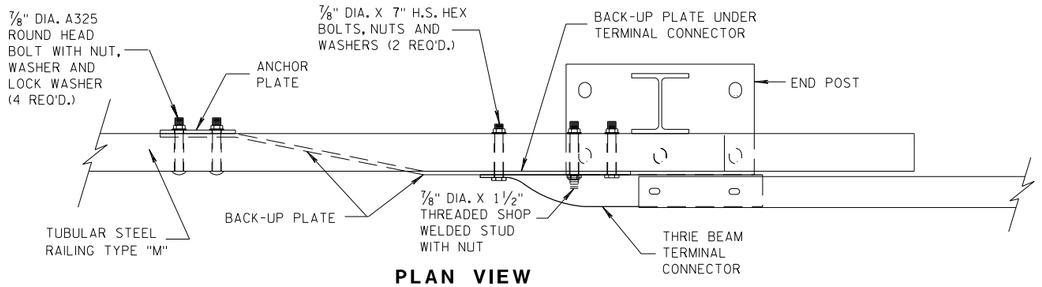


FRONT VIEW

ANCHOR AND BACK-UP PLATE MOUNTING TO BRIDGE RAILING, TYPE "M"



FRONT VIEW



PLAN VIEW

THRIE BEAM CONNECTION TO TUBULAR RAILING, TYPE "M"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/2018 DATE
/S/ Rodney Taylor
ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

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S.D.D. 14 B 45-5h

6

S.D.D. 14 B 45-5h

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.

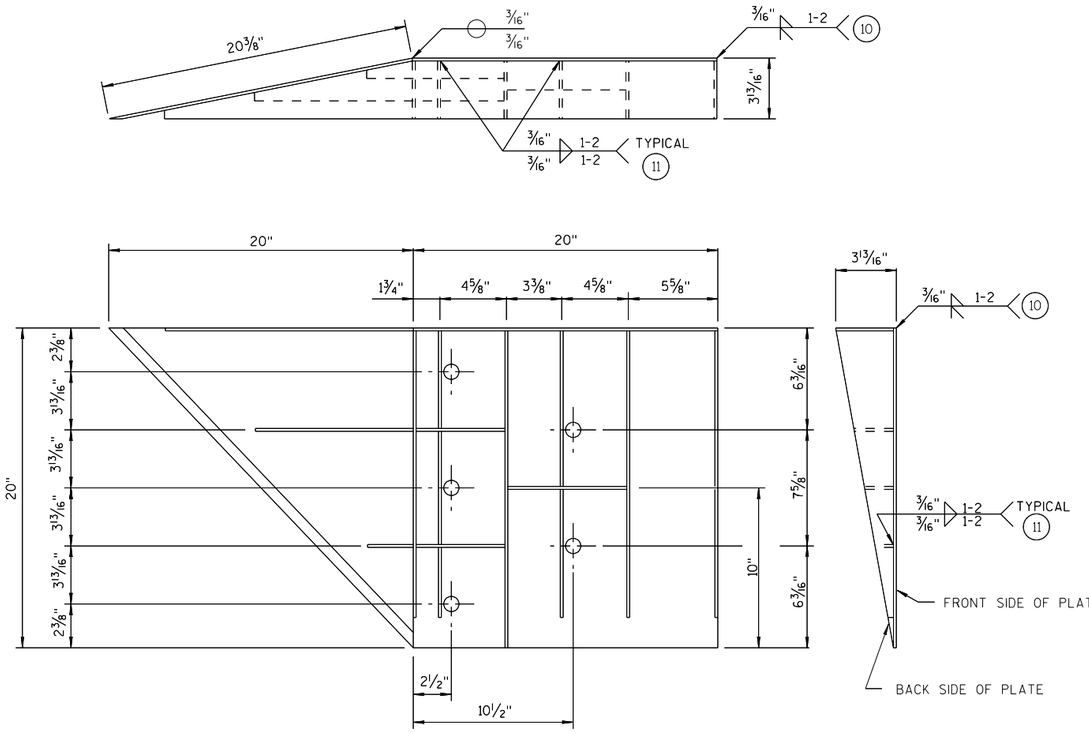
FOR GALVANIZED REQUIREMENTS, SEE SECTION 614 OF THE STANDARD SPECIFICATIONS.

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".



WELDING INSTRUCTION

(VIEWED FROM BACK SIDE OF PLATE)

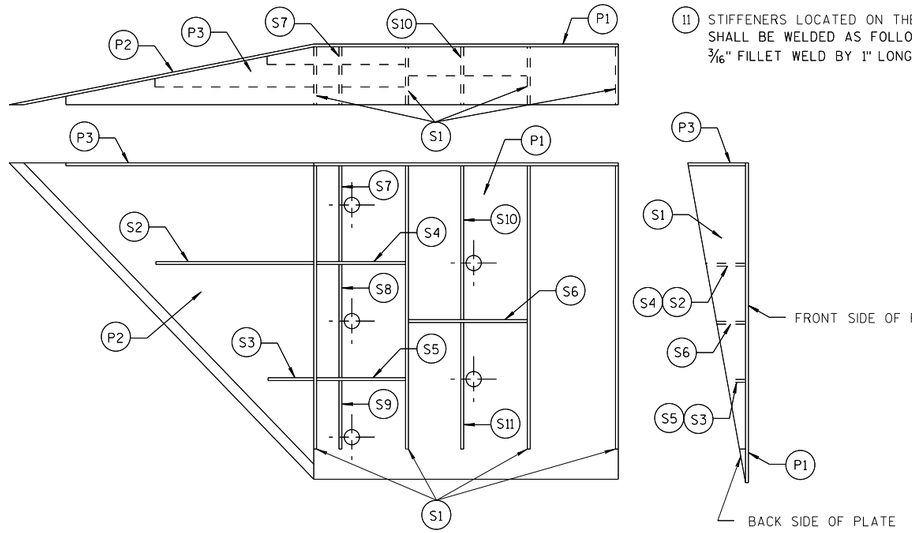


PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

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 5/8" 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 3/32"	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)

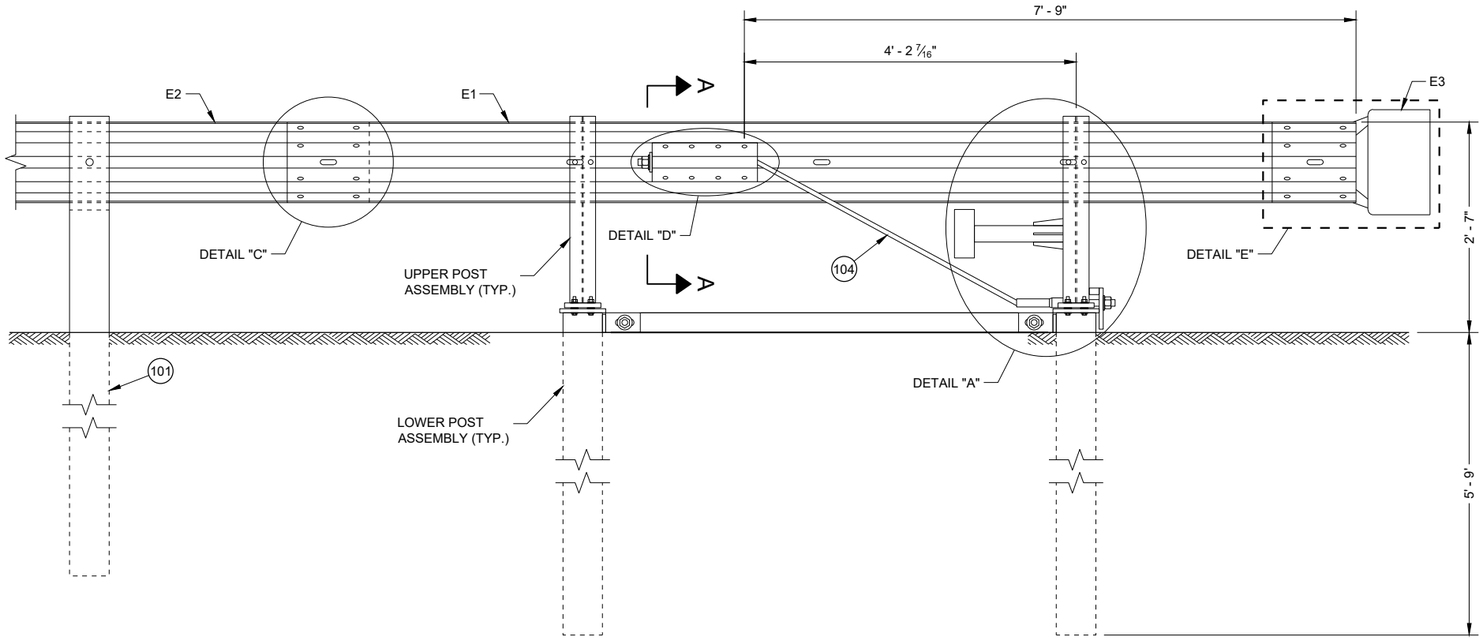
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DATE
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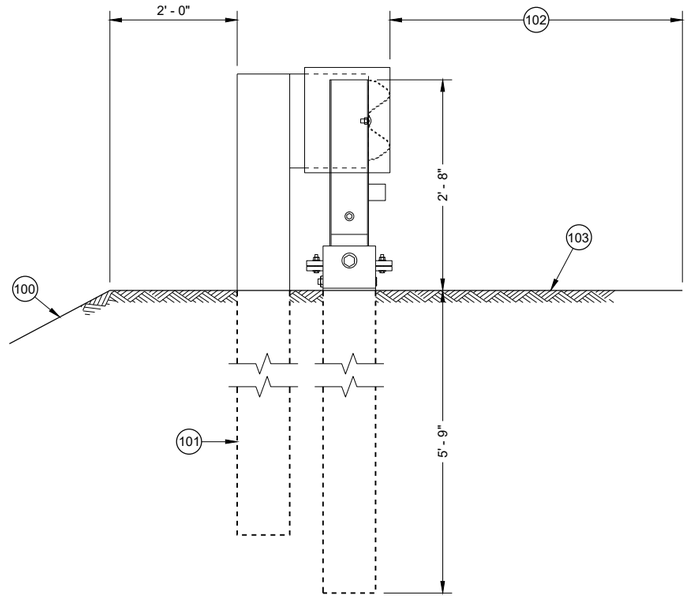
/S/ Rodney Taylor
ROADWAY STANDARDS I
UNIT SUPERVI

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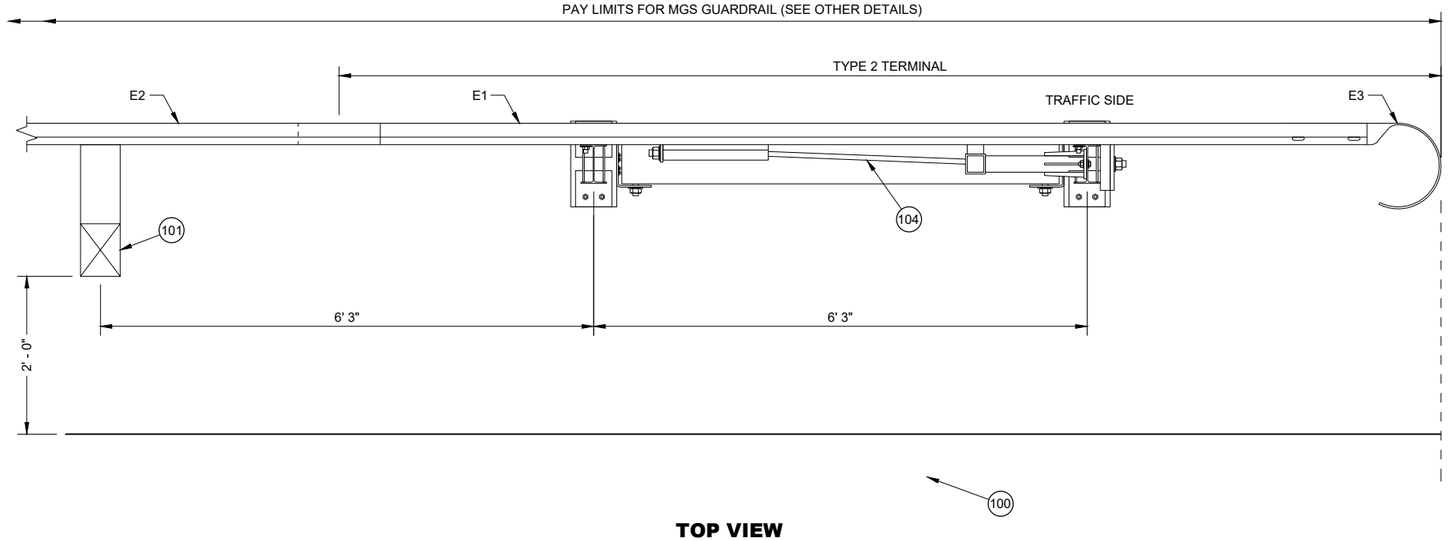
S.D.D. 14 B 45-5i



BACK VIEW
TYPE 2 TERMINAL



SIDE VIEW
TYPE 2 TERMINAL



TOP VIEW
TYPE 2 TERMINAL

GENERAL NOTES

(100) MAXIMUM SLOPE IS 2.5:1.

(101) SEE SDD 14B42 FOR MORE INFORMATION.

(102) SHOULDER

(103) MAXIMUM SLOPE IS 10:1.

(104) AFTER ASSEMBLY, CABLE IS TO BE TIGHTENED WITHOUT TWISTING THE CABLE.

MIDWEST GUARDRAIL SYSTEM (MGS)
TYPE 2 TERMINAL

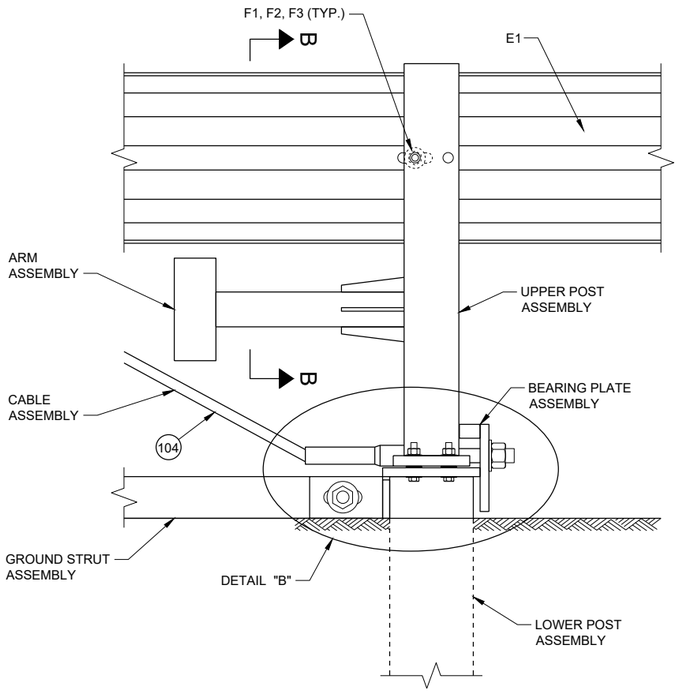
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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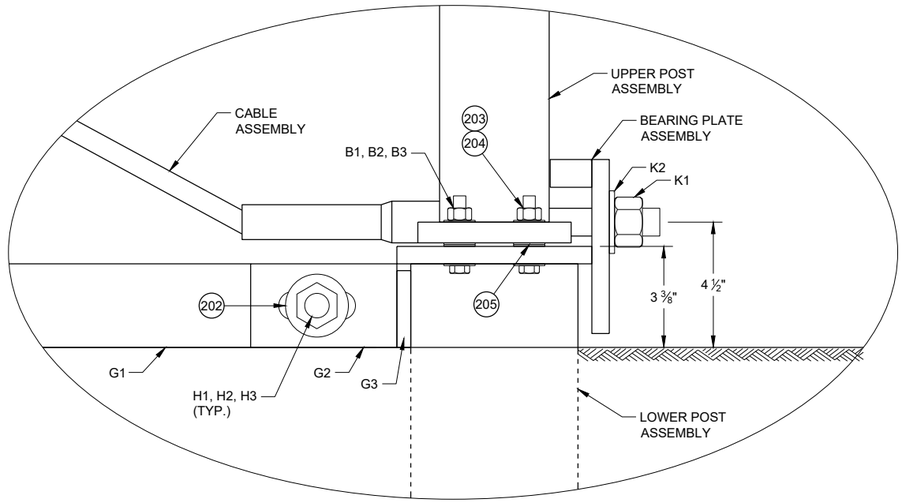
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SDD 14B47 - 03a

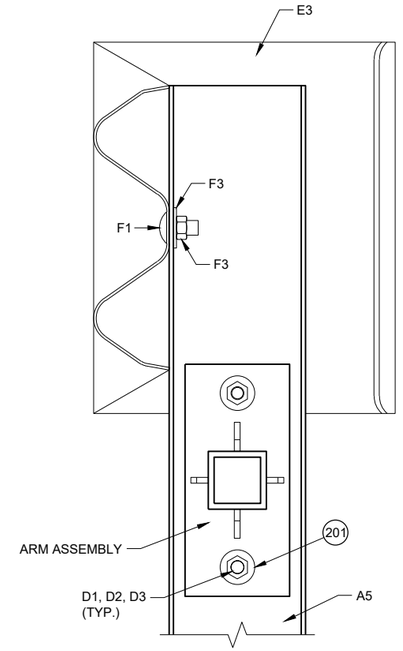
SDD 14B47 - 03a



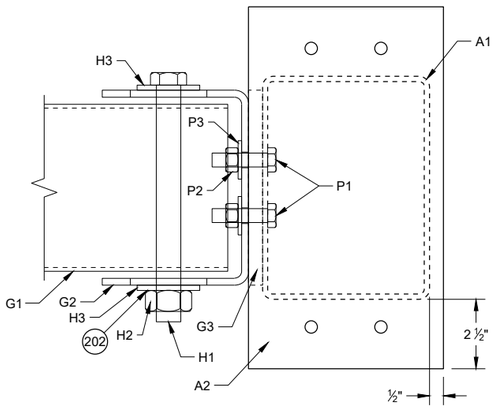
DETAIL "A"



DETAIL "B"

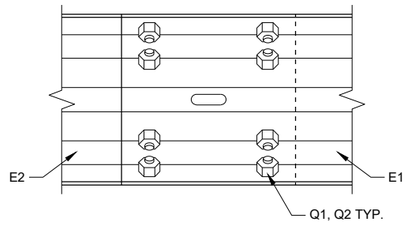


SECTION B - B

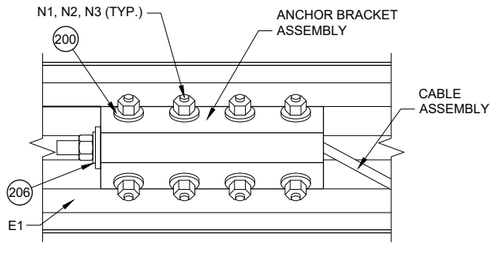


TOP VIEW

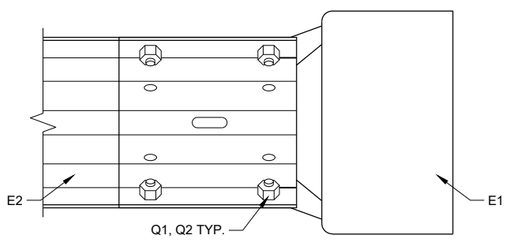
GROUND STRUT CONNECTION DETAIL



DETAIL "C"



DETAIL "D"



DETAIL "E"

GENERAL NOTES

200 INSTALL ONE WASHER UNDER BOLT HEAD AND RAIL AND ON WASHER BETWEEN NUT AND ANCHOR BRACKET ASSEMBLY.

201 INSTALL ONE WASHER UNDER BOLT HEAD AND UPPER POST ASSEMBLY AND ONE WASHER BETWEEN NUT AND ARM PLATE.

202 INSTALL ONE WASHER UNDER BOLT HEAD AND GROUND STRUT CONNECTOR AND ONE WASHER BETWEEN NUT AND GROUND STRUT CONNECTOR.

203 INSTALL ONE WASHER UNDER BOLT HEAD AND LOWER POST ASSEMBLY AND ONE WASHER BETWEEN NUT AND UPPER POST ASSEMBLY.

204 TORQUE VALUE IS BETWEEN 60 - 75 FT-LB.

205 TWO WASHERS BETWEEN UPPER AND LOWER POST ASSEMBLY.

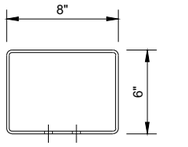
206 INSTALL ONE WASHER BETWEEN NUT AND ANCHOR BRACKET ASSEMBLY.

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

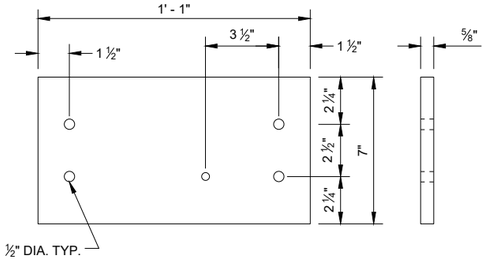
STATE OF WISCONSIN
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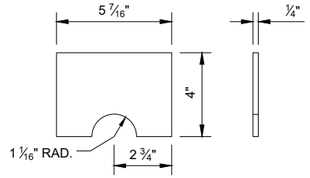
SDD 14B47 - 03b



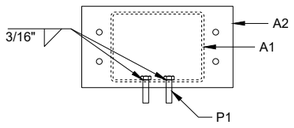
TOP VIEW



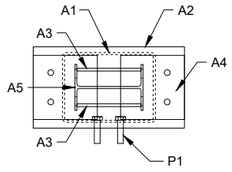
LOWER PLATE (A2)

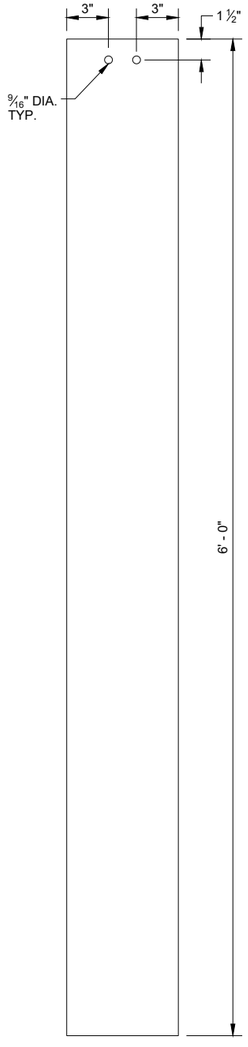


POST GUSSET (A3)



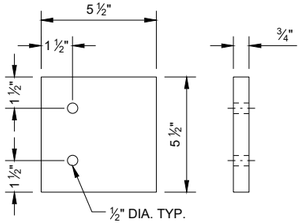
PLAN VIEW



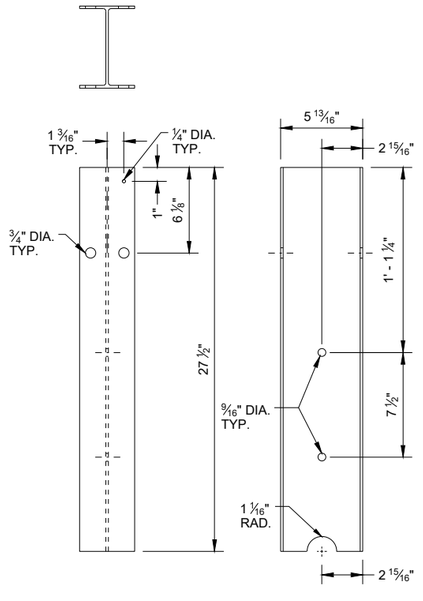


SIDE VIEW

FOUNDATION TUBE (A1)

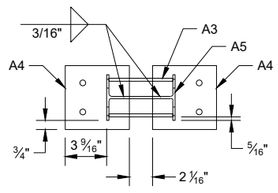


UPPER PLATE (A4)

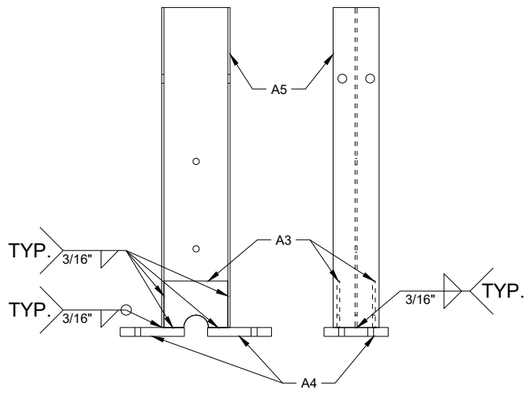


FRONT VIEW SIDE VIEW

TYPE 2 POST (A5)

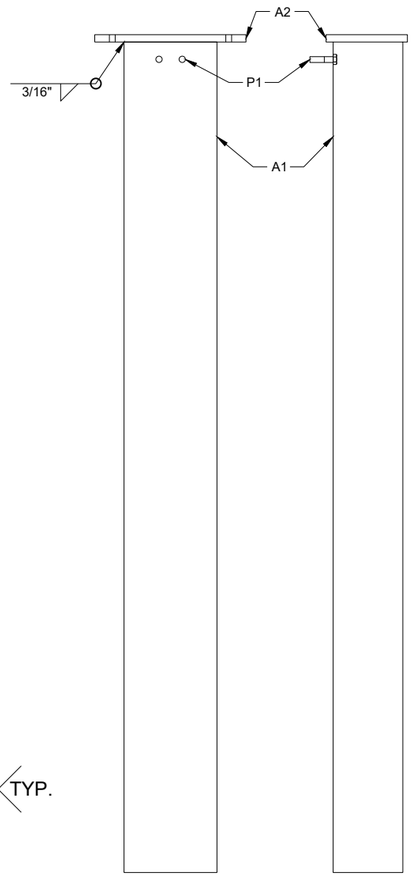


PLAN VIEW



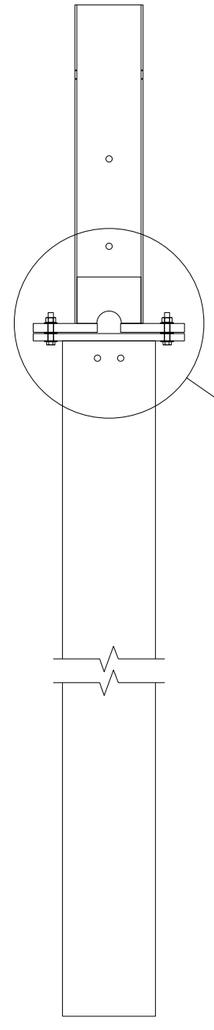
SIDE VIEW FRONT VIEW

UPPER POST ASSEMBLY

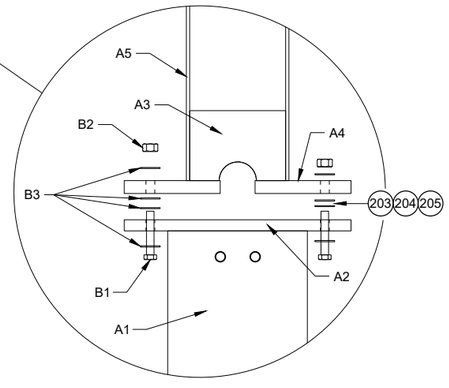


FRONT VIEW SIDE VIEW

LOWER POST ASSEMBLY



ASSEMBLED POST



POST CONNECTION DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

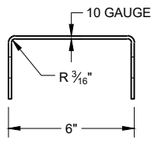
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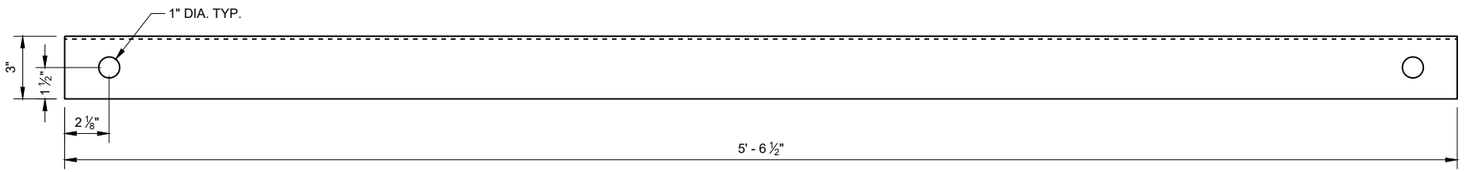
SDD 14B47 - 03c

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SDD 14B47 - 03c

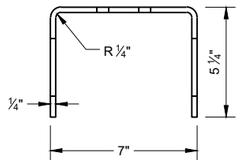


SIDE VIEW

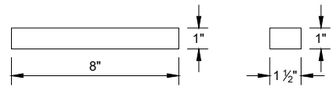


FRONT VIEW

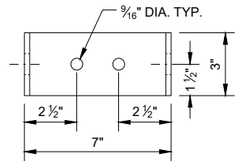
GROUND STRUT CHANNEL (G1)



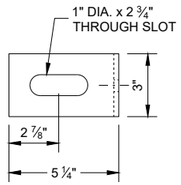
TOP VIEW



BEARING PLATE FLANGE (L2)

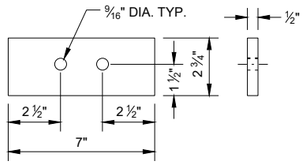


FRONT VIEW

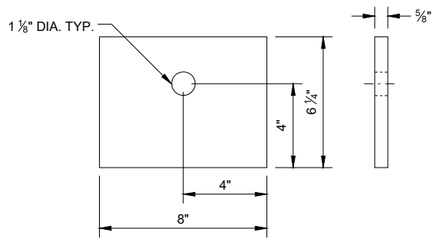


SIDE VIEW

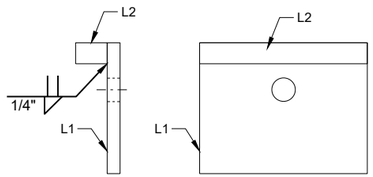
GROUND STRUT CONNECTOR (G2)



GROUND STRUT PLATE (G3)

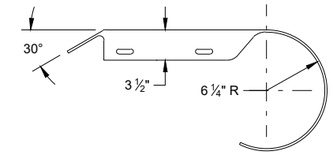


BEARING PLATE (L1)

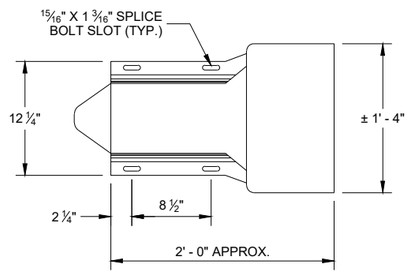


SIDE VIEW FRONT VIEW

BEARING PLATE ASSEMBLY

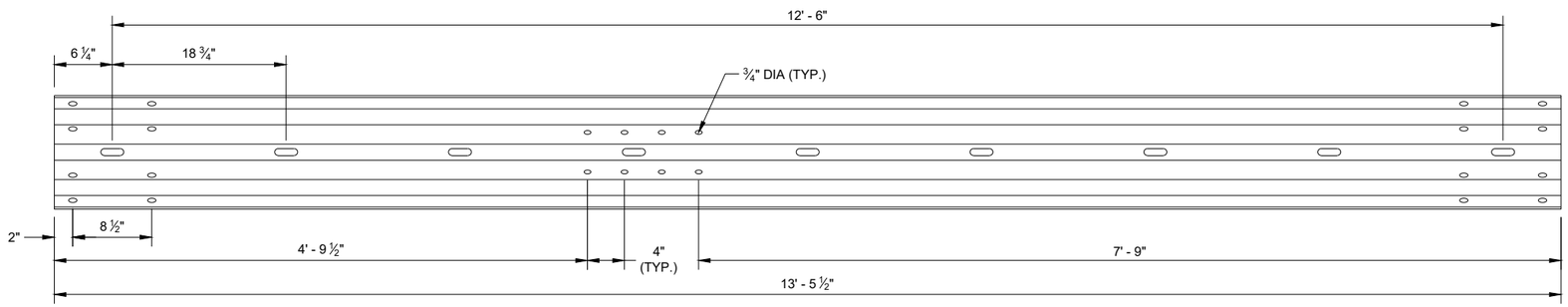


PLAN VIEW

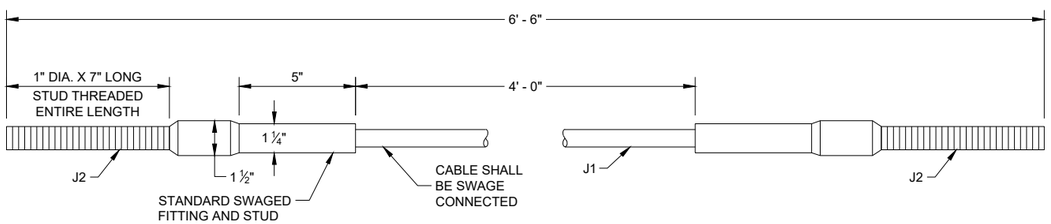


ELEVATION VIEW

ROUNDED BUFFER END (E3)



TYPE 2 GUARDRAIL (E1)



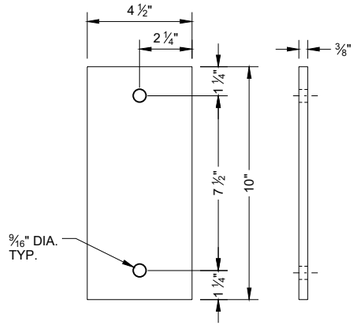
CABLE ASSEMBLY

MIDWEST GUARDRAIL SYSTEM (MGS)
TYPE 2 TERMINAL

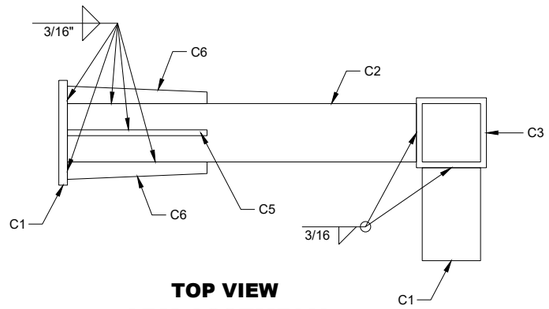
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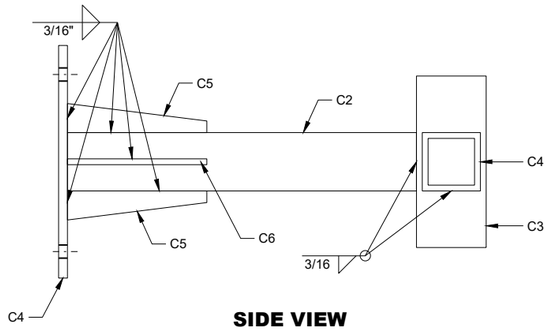
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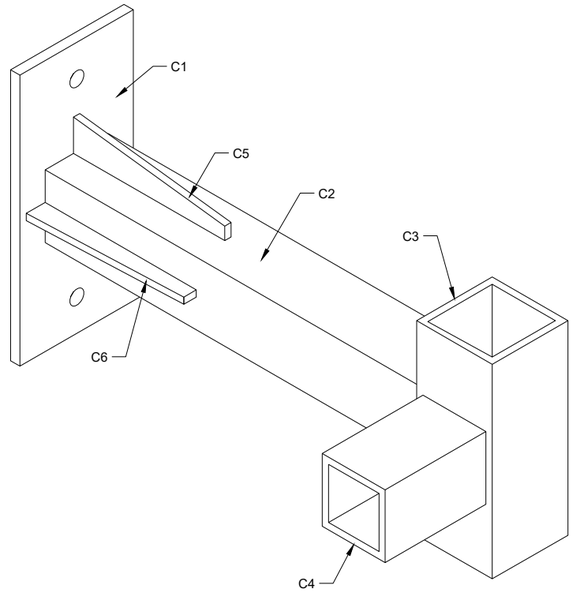
ARM PLATE (C1)



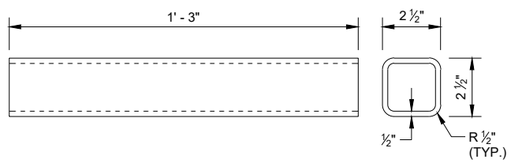
TOP VIEW
ARM ASSEMBLY



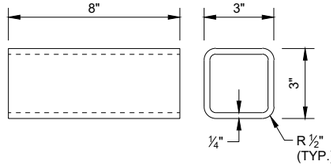
SIDE VIEW
ARM ASSEMBLY



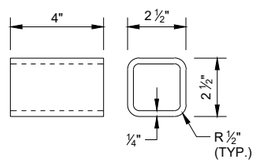
ISOMETRIC VIEW
ARM ASSEMBLY



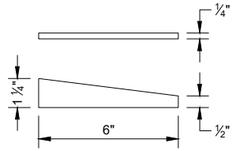
ARM TUBE 1 (C2)



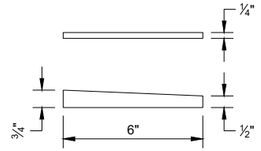
ARM TUBE 2 (C3)



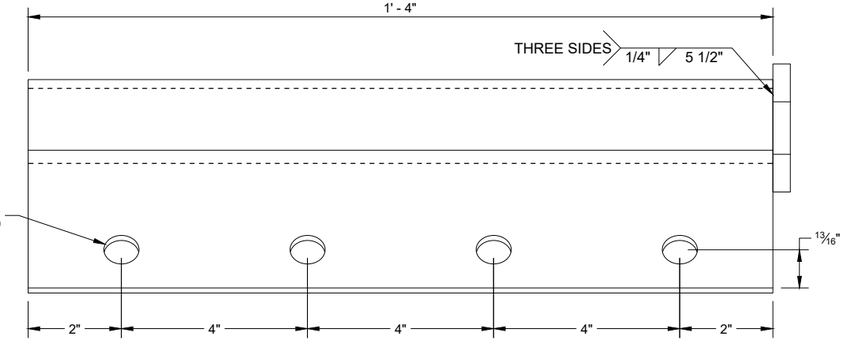
ARM TUBE 3 (C4)

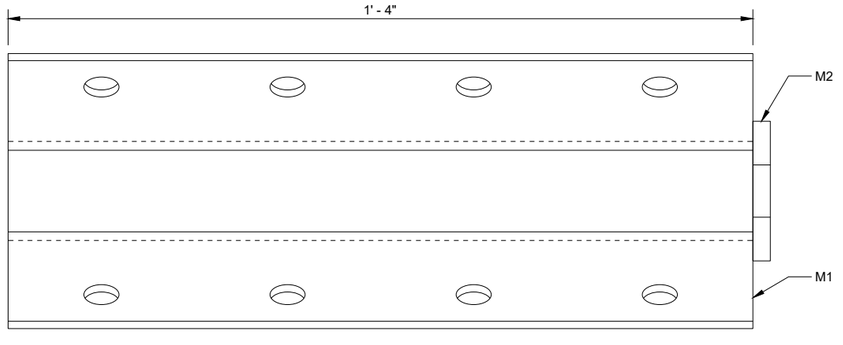


ARM GUSSET PLATE 1 (C5)

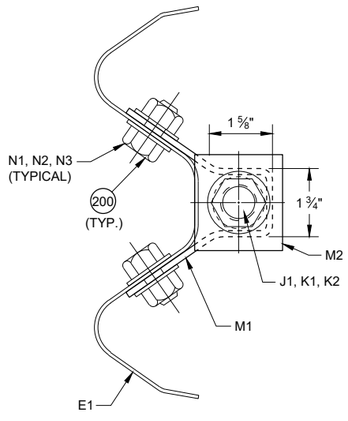


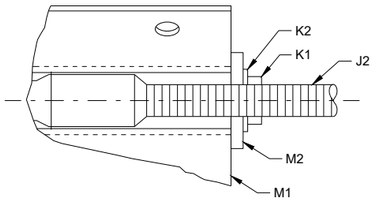
ARM GUSSET PLATE 2 (C6)



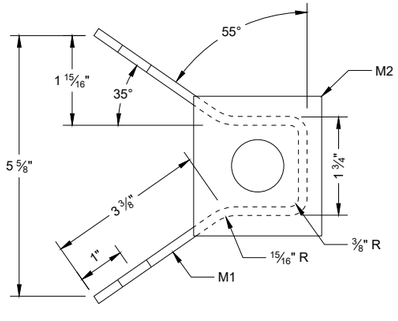


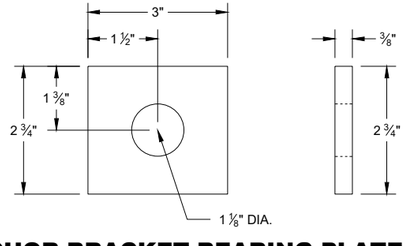
ANCHOR BRACKET (M1, M2)





SECTION A - A





ANCHOR BRACKET BEARING PLATE (M2)

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
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BILL OF MATERIALS - TYPE 2 TERMINAL (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
A1	TYPE 2 FOUNDATION TUBE	AASHTO M111 / ASTM A123 ASTM A500 GRADE B OR ASTM A-501	TS 8" x 6" x 3/16"
A2	LOWER PLATE	AASHTO M111 / ASTM A123 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	5/8" THICKNESS
A3	POST GUSSET	AASHTO M111 / ASTM A123 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	1/4" THICKNESS
A4	UPPER PLATE	AASHTO M111 / ASTM A123 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	3/4" THICKNESS
A5	TYPE 2 POST	AASHTO M111 / ASTM A123 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	
B1	BREAKAWAY BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC HEAVY HEX HEAD ASTM F3125 GRADE A325 TYPE 1 HEAVY HEX HEAD OR SAE J429 GRADE 5 HEAVY HEX HEAD / ASTM A449 TYPE 1 HEAVY HEX HEAD. BOLTS MAY BE FULLY THREADED . PROVIDE ENOUGH THREADING FOR PROPER TIGHTENING OF BOLT.	7/16" DIA.
B2	BREAKAWAY BOLT WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)	7/16" DIA.
B3	BREAKAWAY BOLT NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291/ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
C1	ARM ASSEMBLY PLATE	AASHTO M111 / ASTM A123 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	3/8" THICKNESS
C2	ARM ASSEMBLY TUBE 1	AASHTO M111 / ASTM A123 ASTM A500 GRADE B OR ASTM A-501	TS 8" x 6" x 3/16"
C3	ARM ASSEMBLY TUBE 2	AASHTO M111 / ASTM A123 ASTM A500 GRADE B OR ASTM A-501	TS 3" x 3" x 1/4"
C4	ARM ASSEMBLY TUBE 3	AASHTO M111 / ASTM A123 ASTM A500 GRADE B OR ASTM A-501	TS 2 1/2" x 2 1/2" X 1/4"
C5	ARM ASSEMBLY GUSSET PLATE 1	AASHTO M111 / ASTM A123 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	1/4" THICKNESS
C6	ARM ASSEMBLY GUSSET PLATE 2	AASHTO M111 / ASTM A123 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	1/4" THICKNESS
D1	ARM ASSEMBLY BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC HEAVY HEX HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	1/2" DIA.
D2	ARM ASSEMBLY WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)	1/2" DIA.
D3	ARM ASSEMBLY NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	1/2" DIA.
E1	TYPE 2 GUARD RAIL	AASHTO M180 CLASS A TYPE 2 12 GAUGE APPROVED PRODUCER	
E2	BEAM GUARD RAIL	AASHTO M180 CLASS A TYPE 2 12 GAUGE APPROVED PRODUCER	
E3	BEAM GUARD ROUNDED BUFFER END	AASHTO M180 CLASS A TYPE 2 12 GAUGE APPROVED PRODUCER	
F1	POST BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC UNC HEAVY HEX HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	5/8" DIA.
F2	POST BOLT WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)	5/8" DIA.
F3	POST BOLT NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291/ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
G1	GROUND STRUT CHANNEL	AASHTO M111 / ASTM A123 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	1/2" x 11 3/4" x 10 GAUGE
G2	GROUND STRUT CONNECTOR	AASHTO M111 / ASTM A123 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	1/4" THICKNESS
G3	GROUND STRUT PLATE	AASHTO M111 / ASTM A123 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	1/2" THICKNESS

BILL OF MATERIALS - TYPE 2 TERMINAL (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
H1	GROUND STRUT BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC HEAVY HEX HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	7/8" DIA.
H2	GROUND STRUT BOLT WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)	7/8" DIA.
H3	GROUND STRUT BOLT NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC HEAVY HEX HEAD 5/8" ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	
J1	BCT CABLE	AASHTO M30 / ASTM A741 6 x 19 INDEPENDENT WIRE CORE (IWRC) IMPROVED PLOW STEEL (IPS), 6 x 19 INDEPENDENT WIRE CORE (IWRC) IMPROVED PLOW STEEL (IPS) TYPE II OR IIC, CLASS C ZINC COATED MIN. BREAKING STRENGTH OF 42.7 KIPS	**3/4" DIA.**
J2	BCT CABLE	UNC 1" ASTM A576 GRADE 1035 SWAGE FITTINGS ARE TO BE FACTORY SWEDGED. MIN BREAKING STRENGTH OF 42.7 KIPS ASME B30.26 "FORGED, CAST, OR DIE STAMPED WITH THE FOLLOWING IN TO CONNECTION: NAME OF MANUFACTURE OR TRADEMARK OF CONNECTION'S MANUFACTURER, SIZE OR RATED LOAD, GRADE FOR ALLOY EYEBOLTS."	
K1	CABLE ASSEMBLY NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	1" DIA.
K2	CABLE ASSEMBLY WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1	1" DIA.
L1	BEARING PLATE	AASHTO M111 / ASTM A123 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	5/8" THICKNESS
L2	BEARING PLATE FLANGE	AASHTO M111 / ASTM A123 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	1" THICKNESS
M1	BEAM GUARD ANCHOR BRACKET	AASHTO M111 / ASTM A123 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	
M2	BEAM GUARD ANCHOR END PLATE	AASHTO M111 / ASTM A123 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	3/8" THICKNESS
N1	ANCHOR BRACKET BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC AASHTO M180 HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	5/8" DIA.
N2	ANCHOR BRACKET BOLT WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)	5/8" DIA.
N3	ANCHOR BRACKET BOLT NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 /ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
P1	FOUNDATION TUBE BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 /ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	1/2" DIA.
P2	FOUNDATION TUBE WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 7/8" ASTM F844 TYPE 1 (HARDENED WASHER ONLY)	1/2" DIA.
P3	FOUNDATION TUBE NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
Q1	SPLICE BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC AASHTO M180 HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	
Q2	SPLICE NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	5/8" DIA.

6

6

SDD 14B47 - 03g

SDD 14B47 - 03g

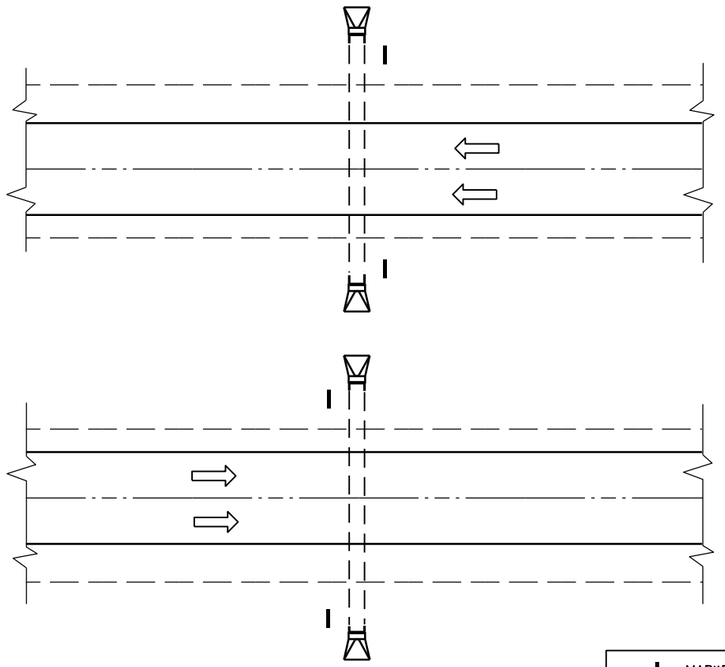
MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2021
DATE

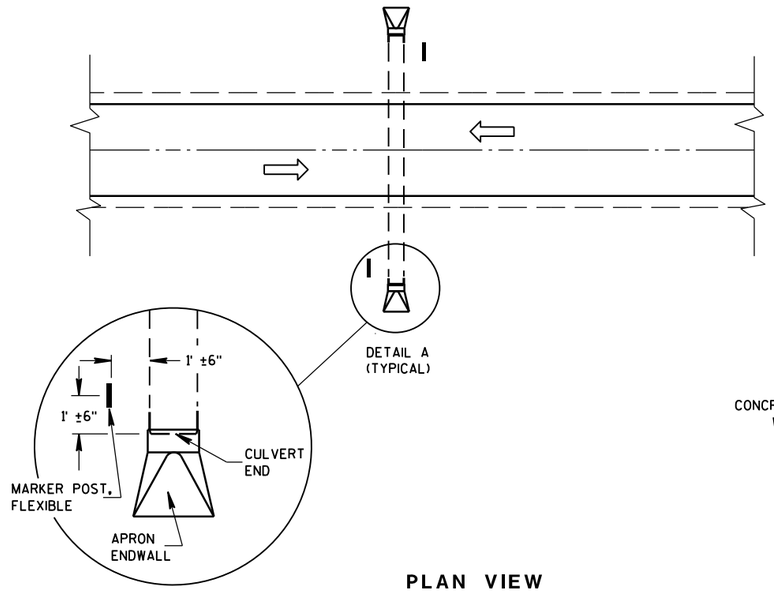
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

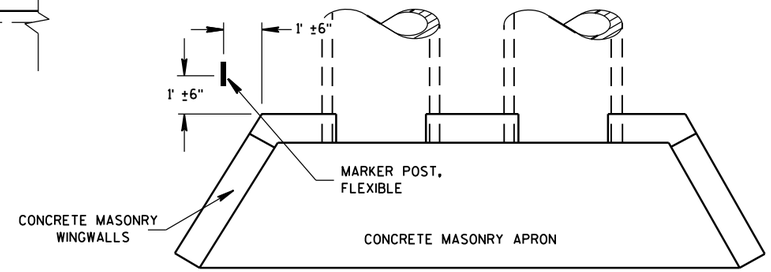
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

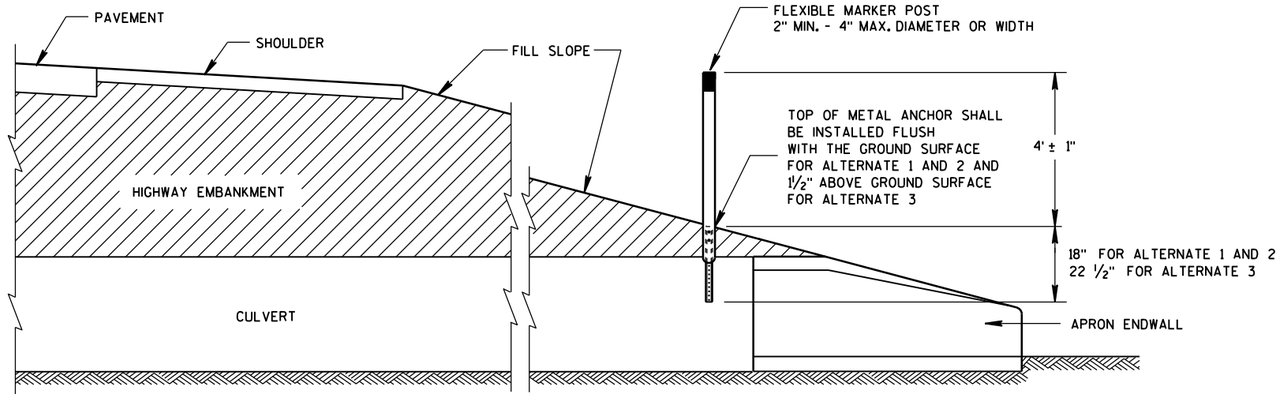
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



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

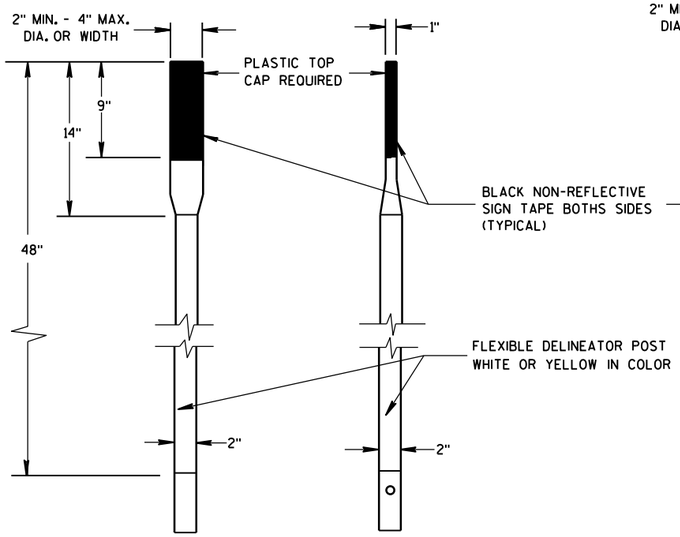
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

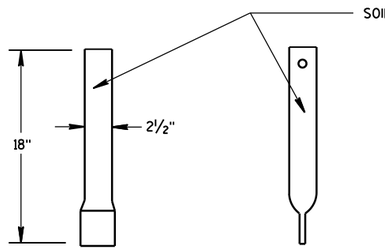
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S.D.D. 15 A 3-2a

6

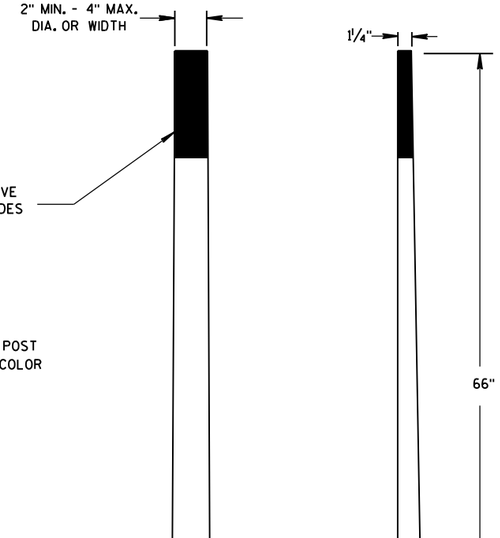
S.D.D. 15 A 3-2a





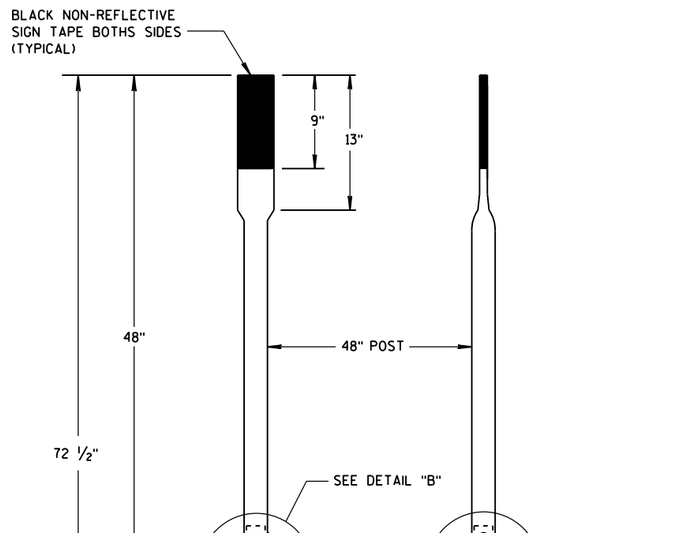
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

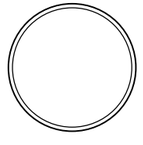
ALTERNATE 2



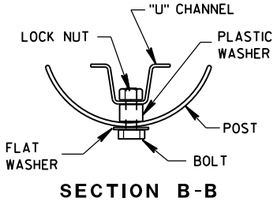
FRONT VIEW SIDE VIEW

ALTERNATE 3

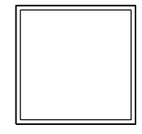
FLEXIBLE MARKER POSTS



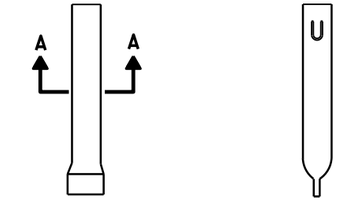
SECTION A-A



SECTION B-B

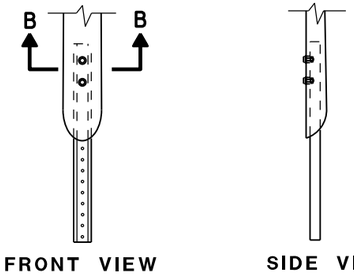


SECTION C-C



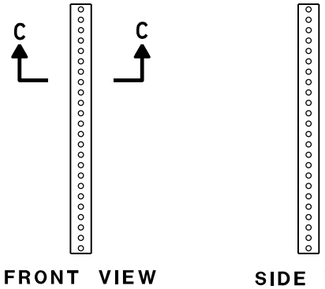
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

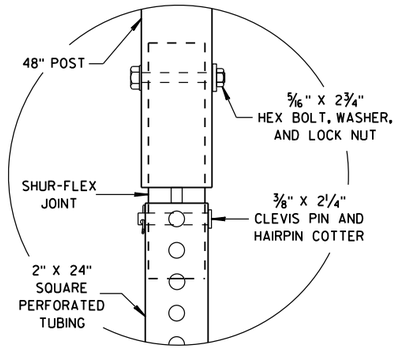
ALTERNATE 2



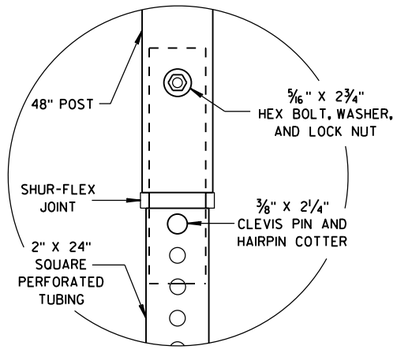
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

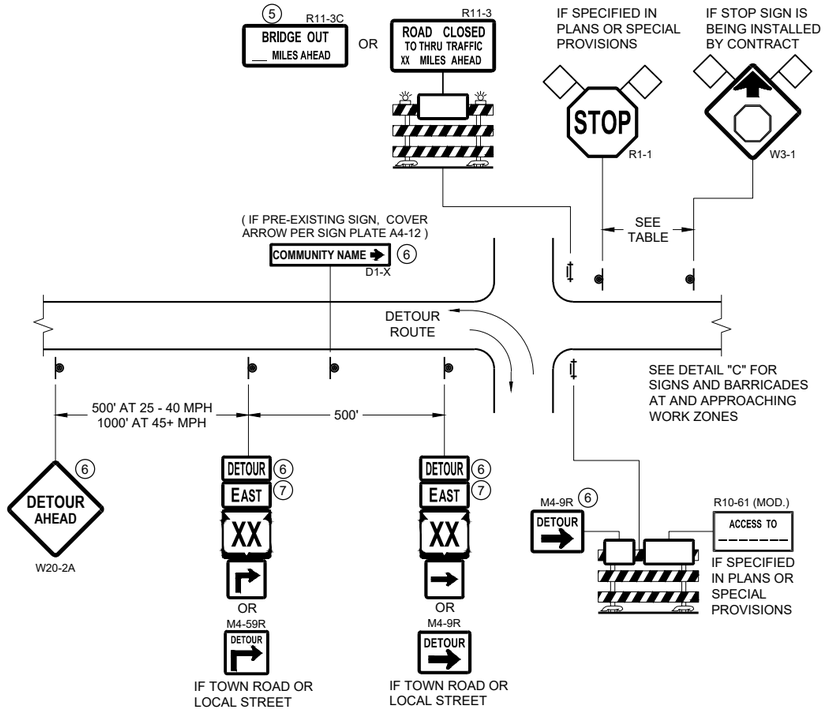
APPROVED
10/1/2012
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
FHWA

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

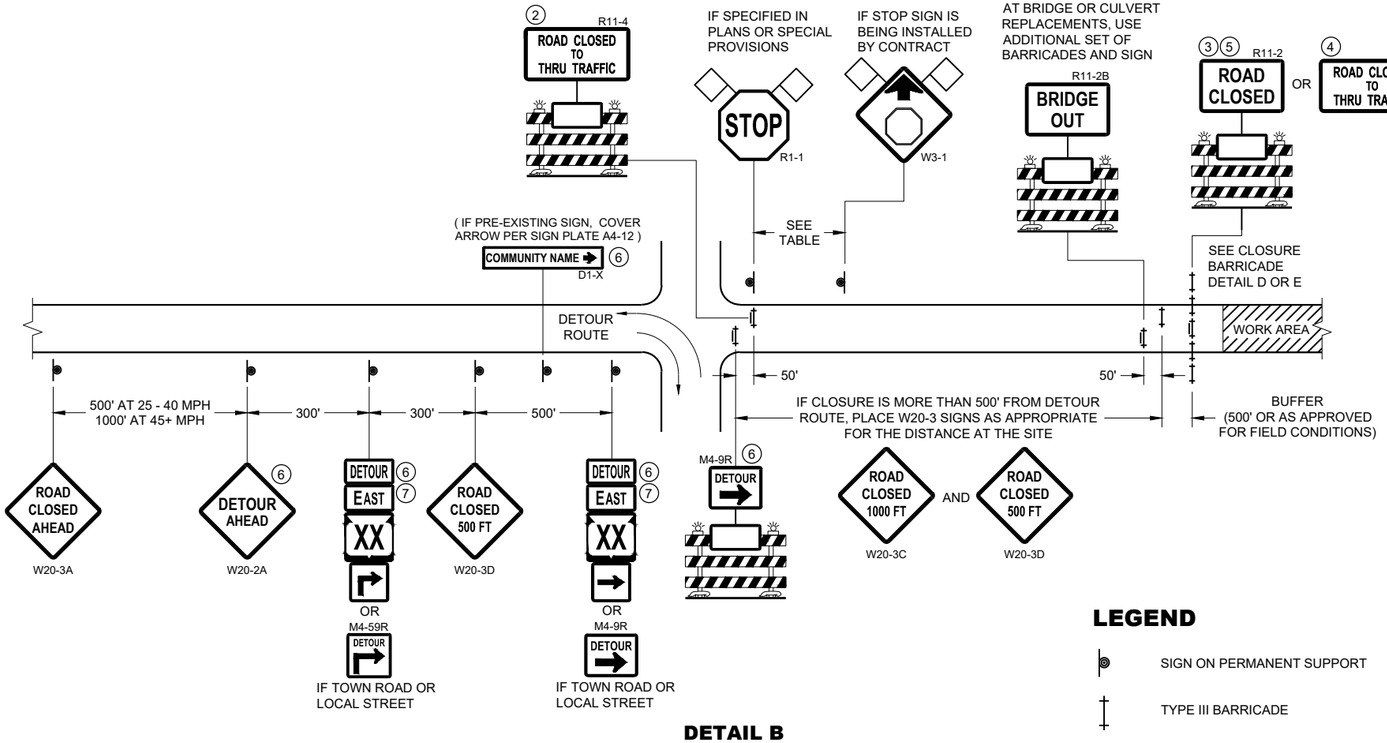
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S.D.D. 15 A 3-2b



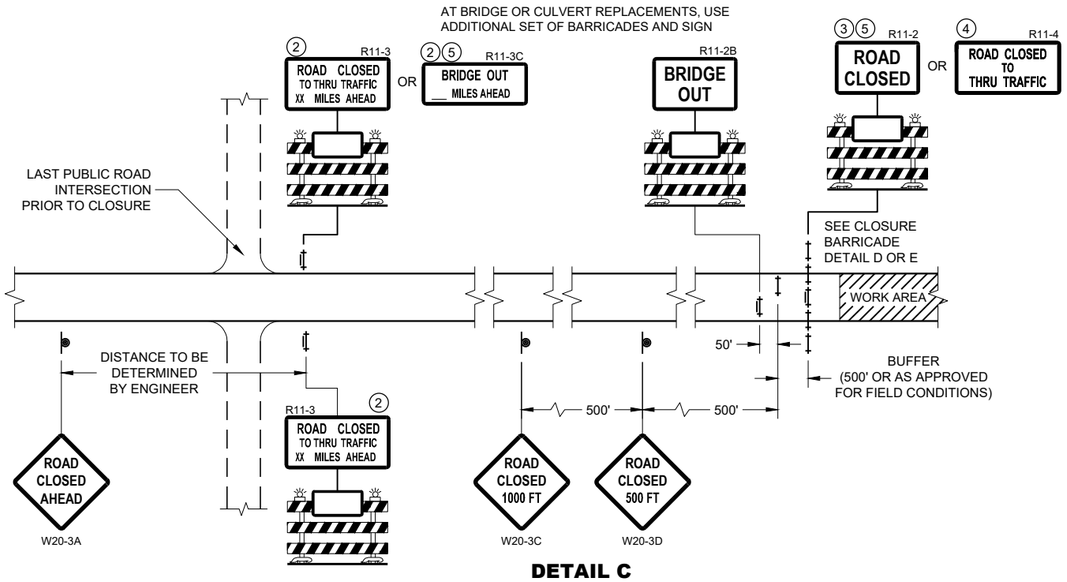
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

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

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

LEGEND

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

DETOUR M4 - 8
EAST M3 - X
XX M1 - 4 OR XX M1 - 6 OR COUNTY X M1 - 5A
M05 - 1 OR M06 - 1

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

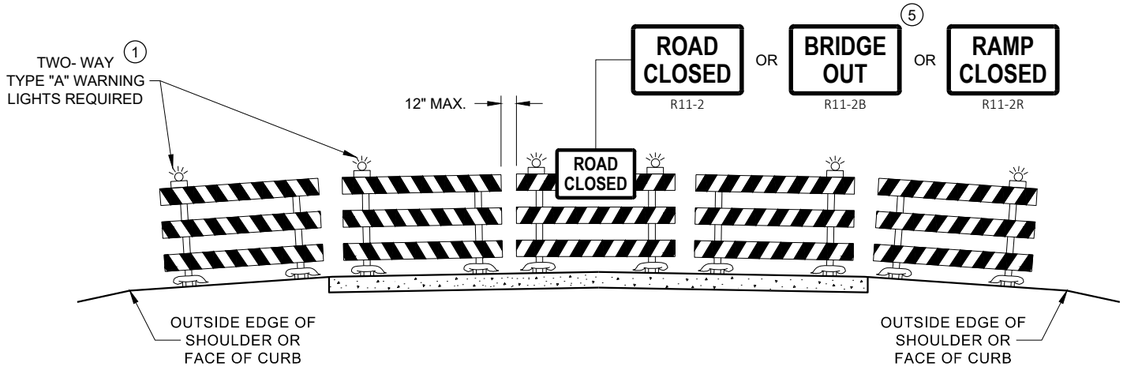
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

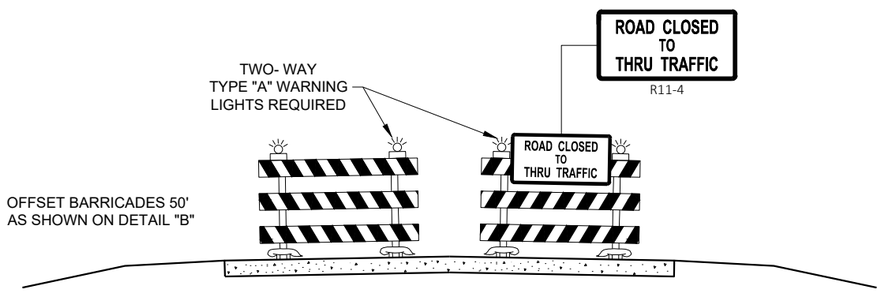
FHWA

SDD 15C02 - 08a

SDD 15C02 - 08a



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

6

SDD 15C02 - 08b

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

LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1 OR M06 - 1

GENERAL NOTES

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

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

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

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

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

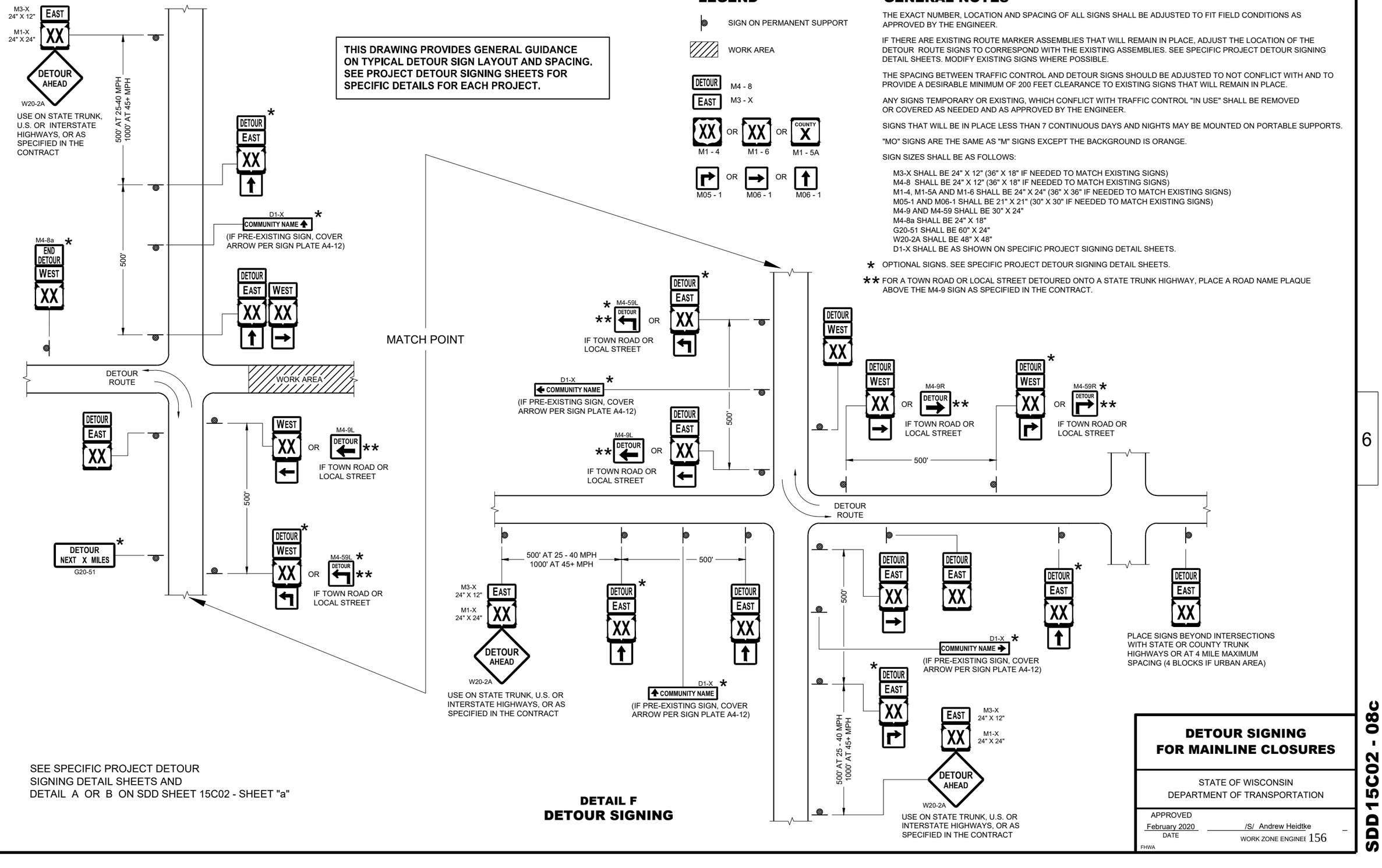
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-9 AND M4-59 SHALL BE 30" X 24"
- M4-8a SHALL BE 24" X 18"
- G20-51 SHALL BE 60" X 24"
- W20-2A SHALL BE 48" X 48"
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



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

DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

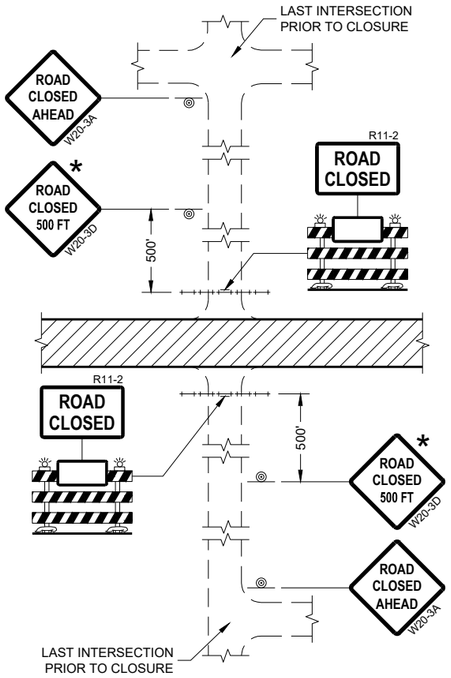
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

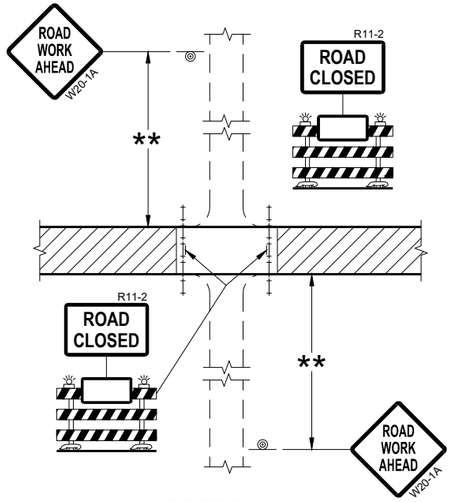
SDD 15C02 - 08c

SDD 15C02 - 08c

6



DETAIL 1
(NO ACCESS TO PROJECT)



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

GENERAL NOTES

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

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

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

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

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

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

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

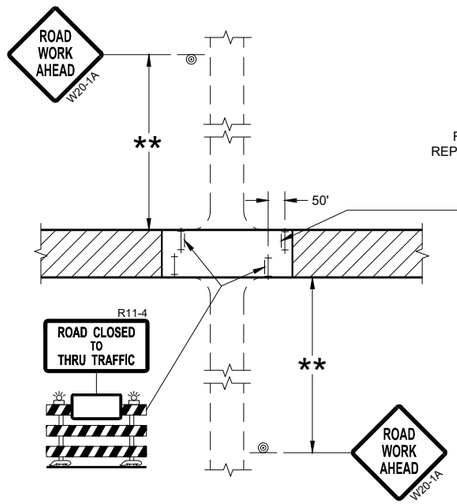
TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

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

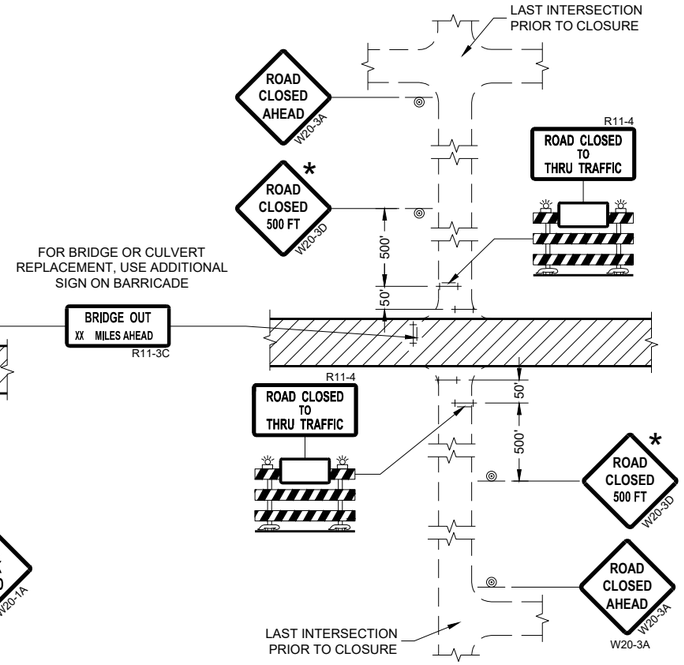
ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

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

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



DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED.
CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

LEGEND

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

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

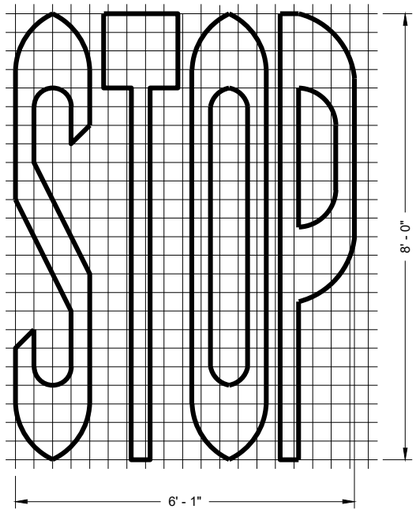
/S/ Andrew Heidtke
WORK ZONE ENGINEE

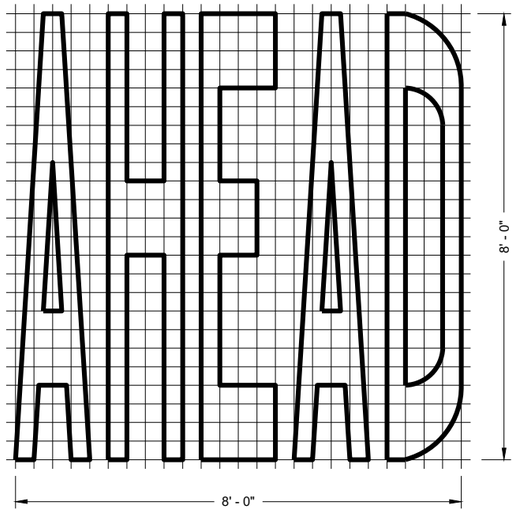
FHWA

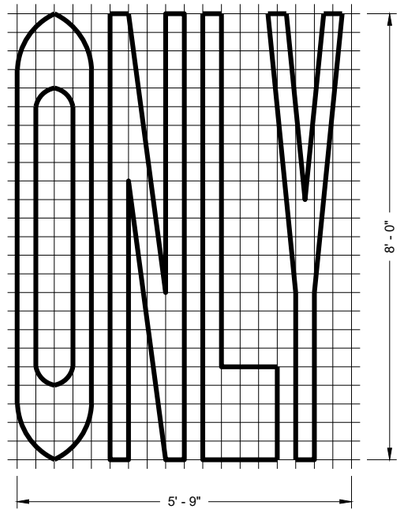
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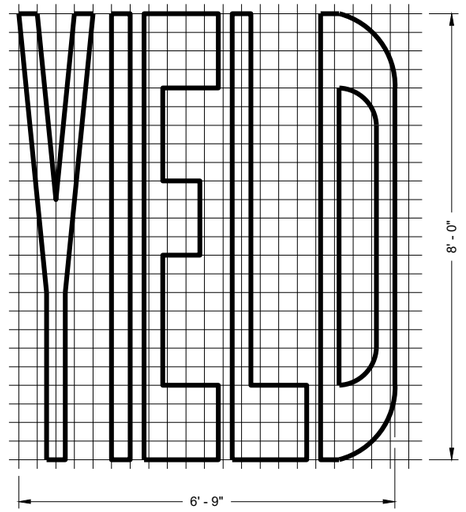
SDD 15C03 - 05

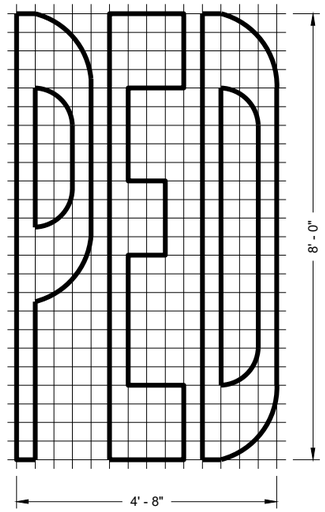
SDD 15C03 - 05

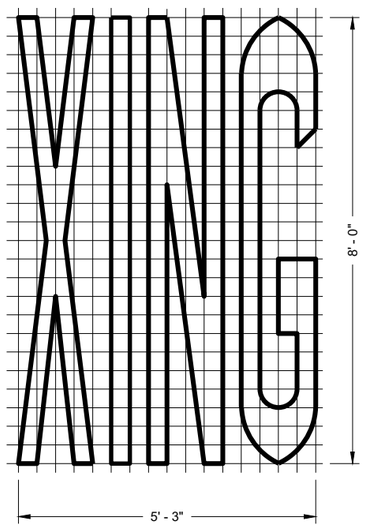


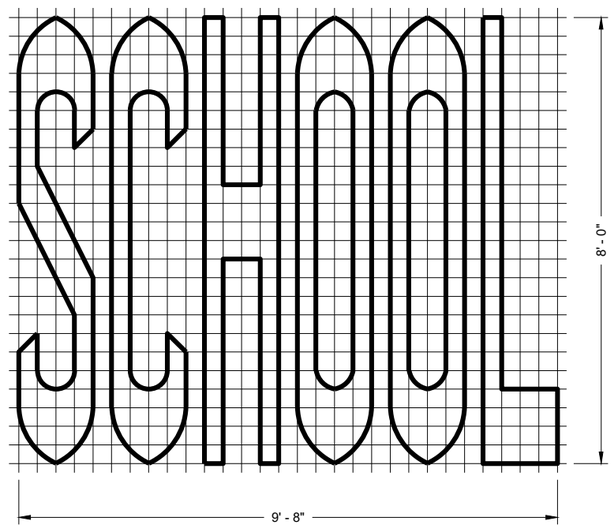




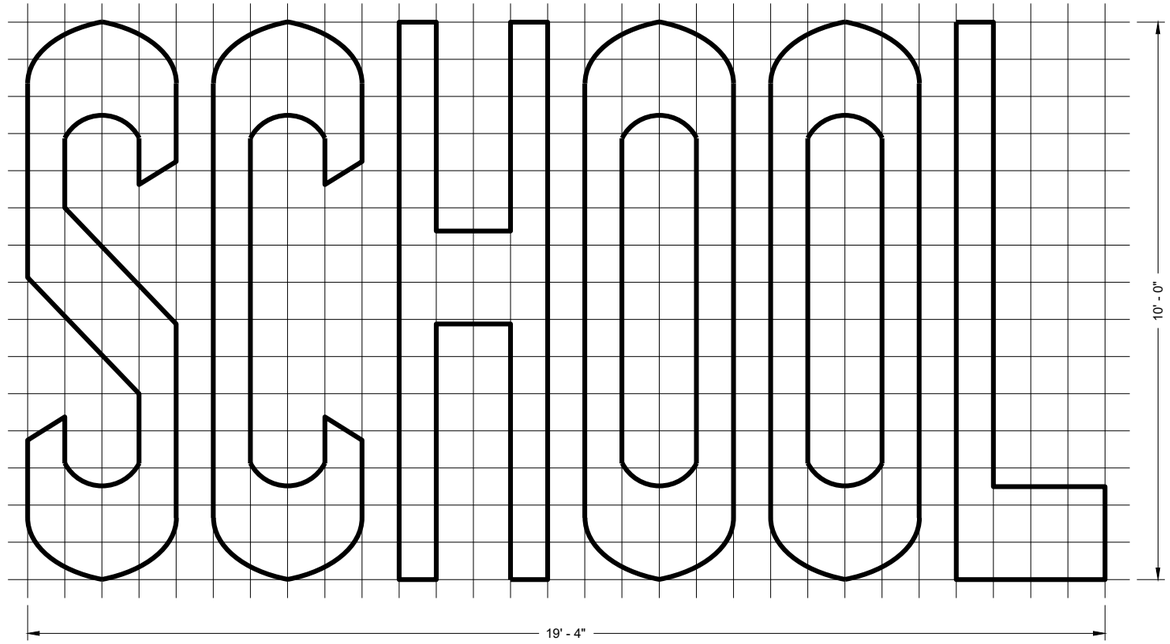








SINGLE LANE



TWO - LANE

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.

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

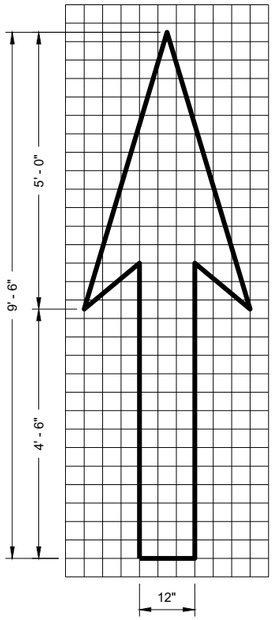
FHWA

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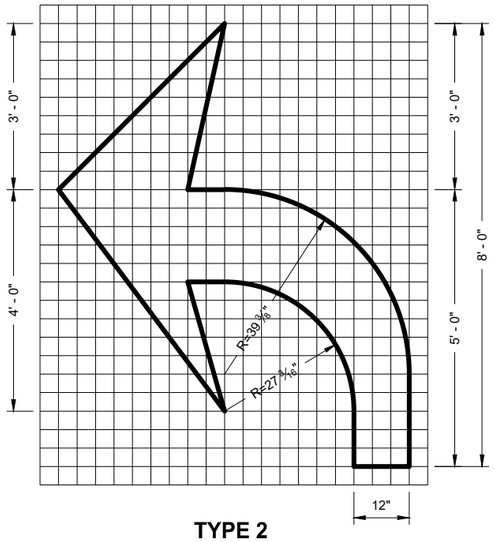
SDD 15C07 - 15b

GENERAL NOTES

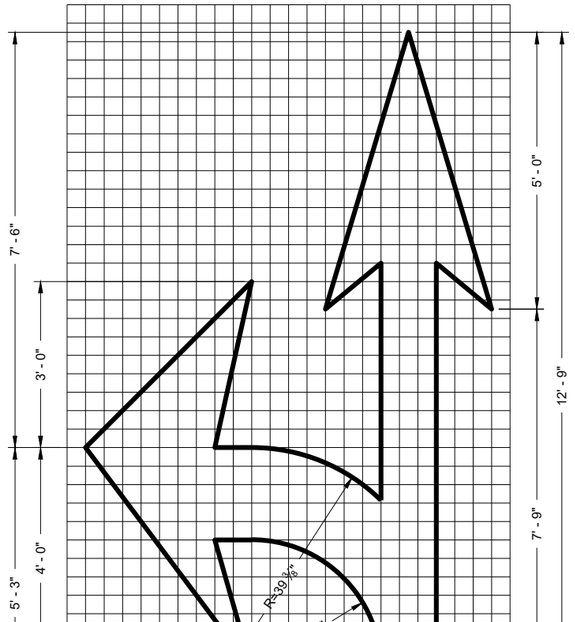
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



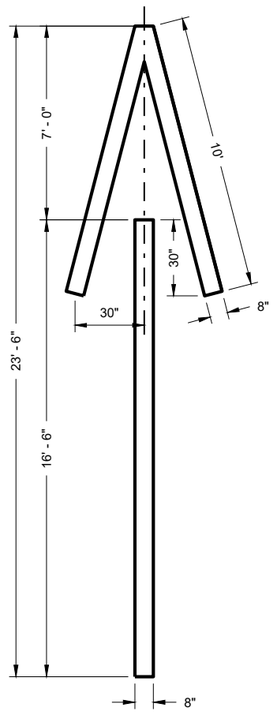
TYPE 1



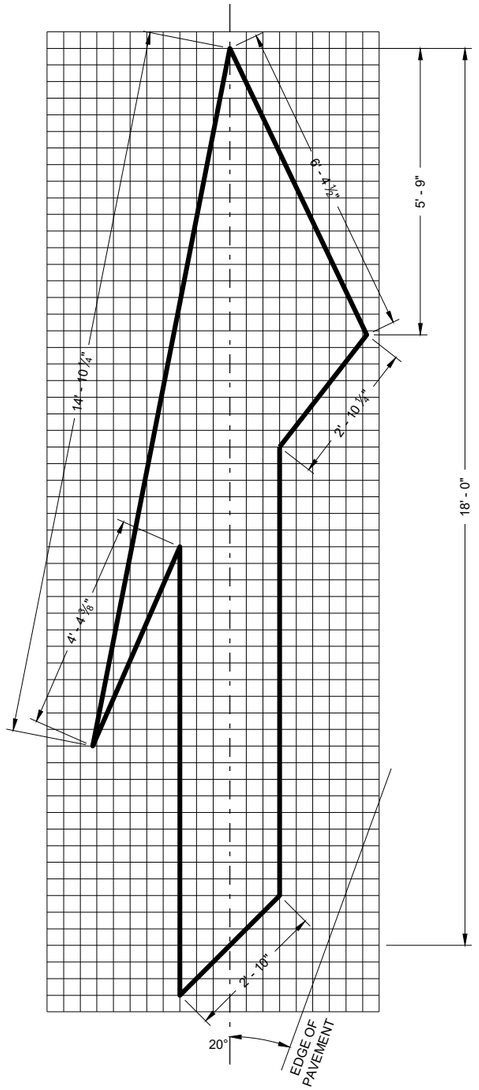
TYPE 2



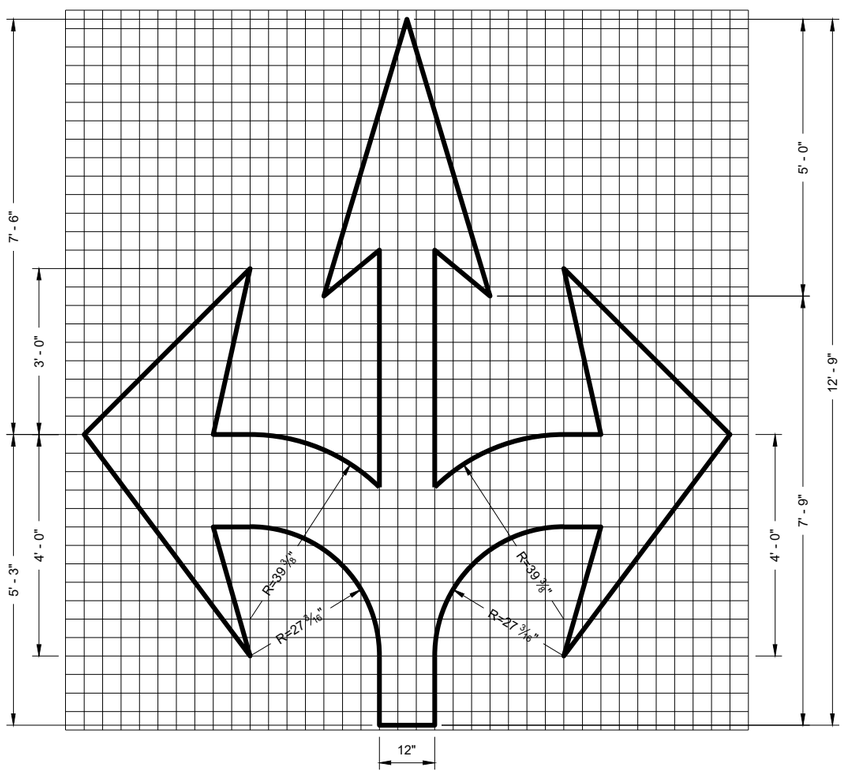
TYPE 3



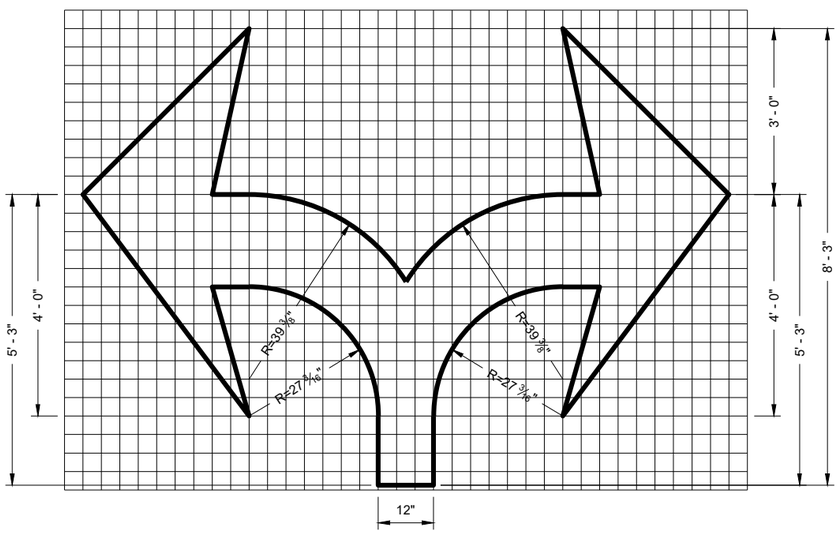
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER

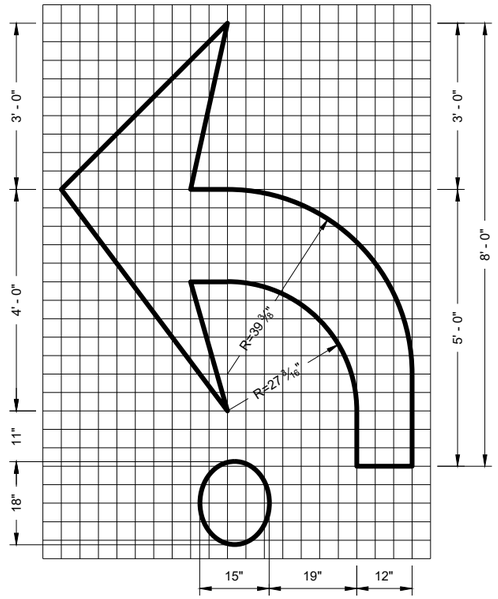
FHWA

SDD 15C07 - 15c

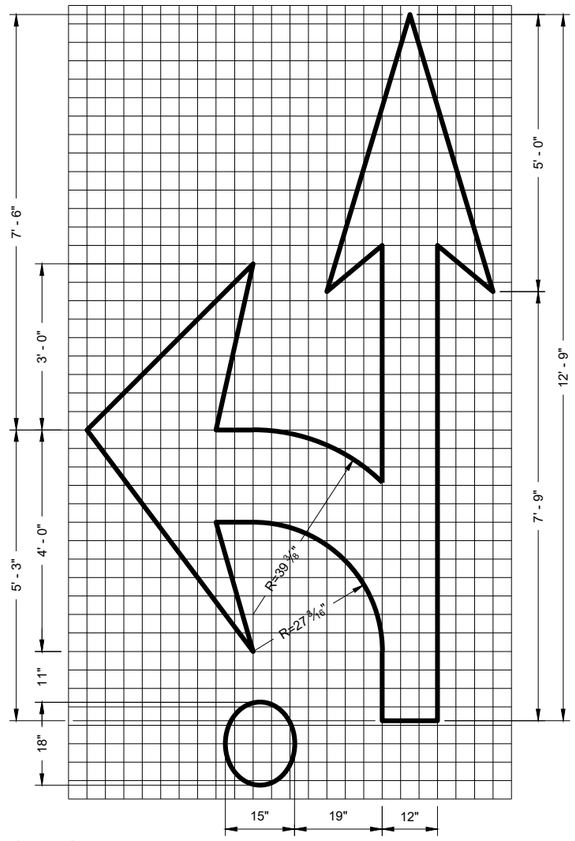
SDD 15C07 - 15c

GENERAL NOTES

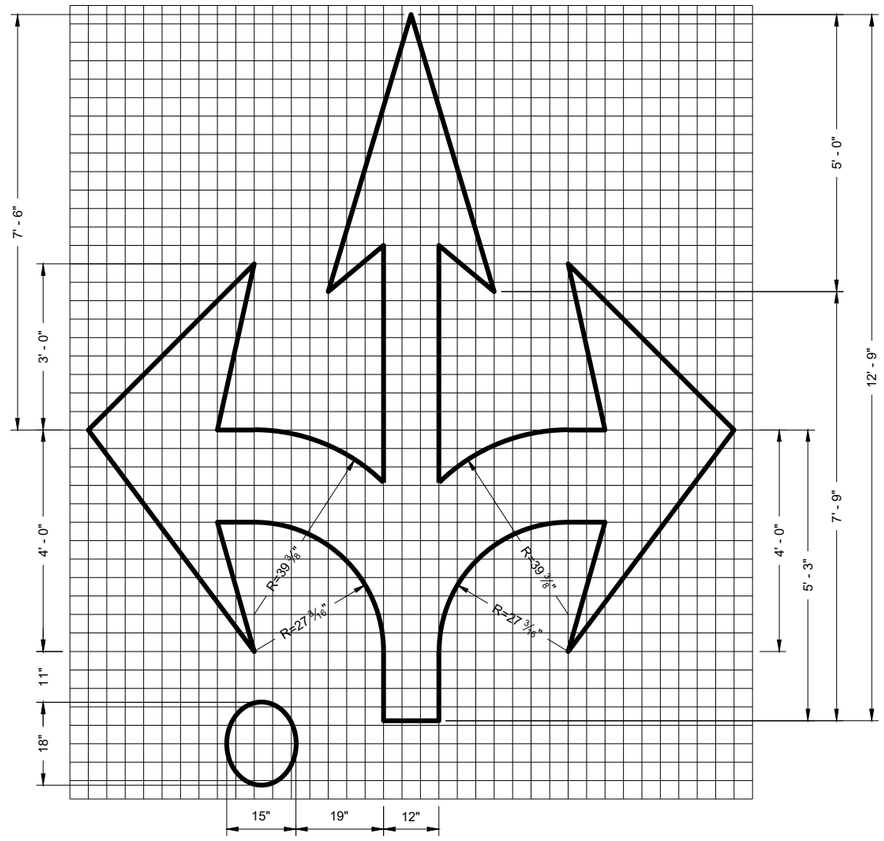
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



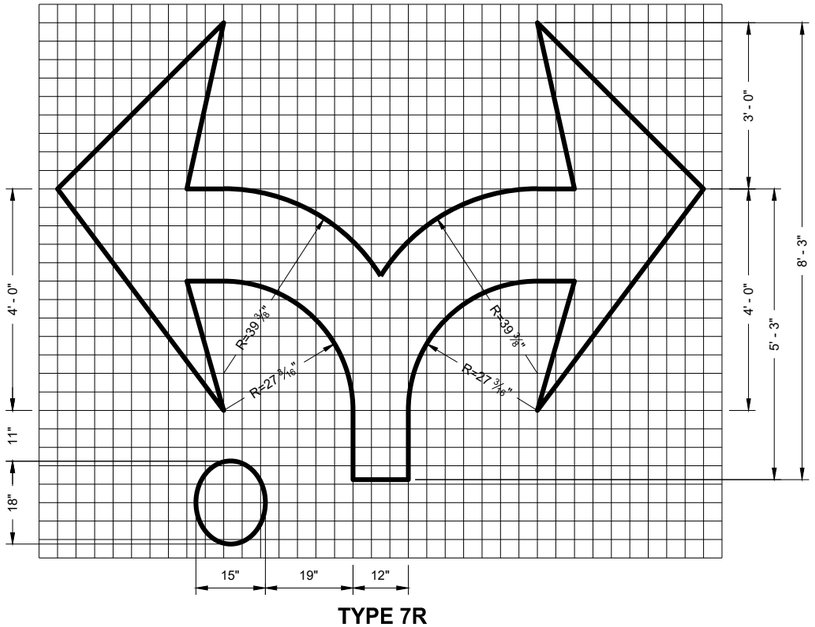
TYPE 2R



TYPE 3R



TYPE 6R



TYPE 7R

ROUNDABOUT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

6

SDD 15C07 - 15d

6

SDD15C07 - 15d

GENERAL NOTES

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

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING

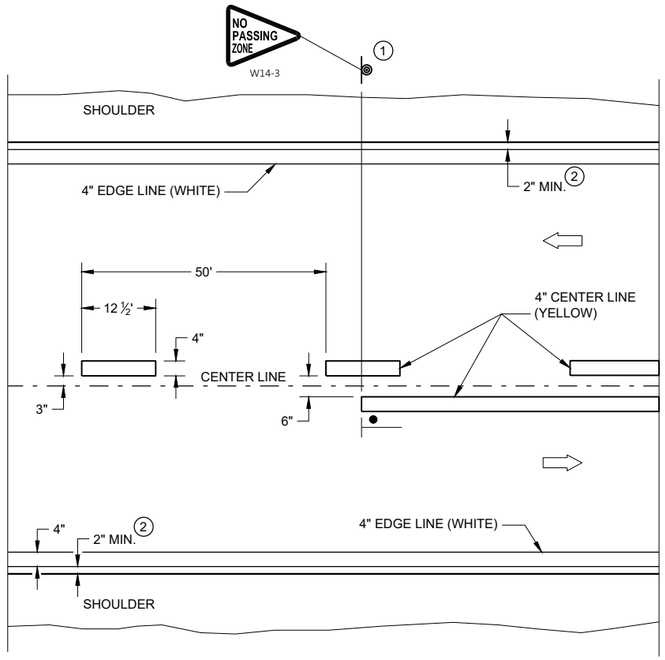
(2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

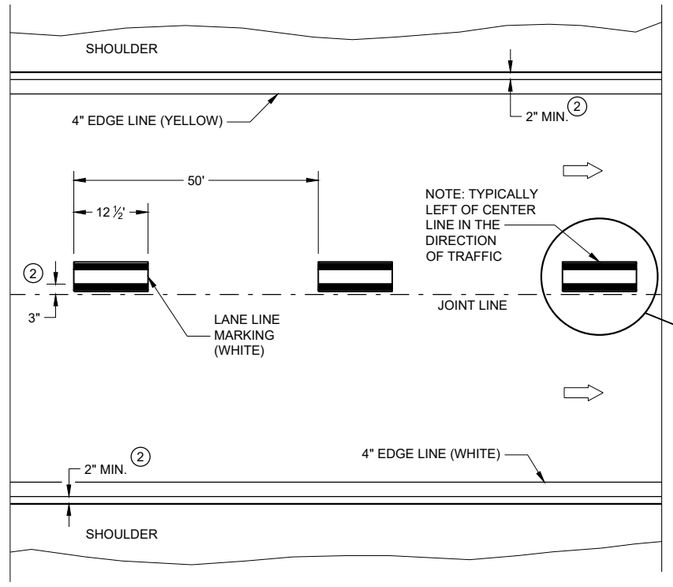
"T" MARKING

SIGN ON PERMANENT SUPPORT

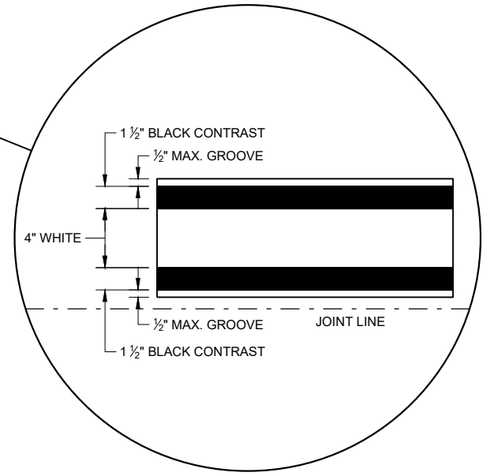
DIRECTION OF TRAFFIC



TWO WAY TRAFFIC



ONE WAY TRAFFIC



PERMANENT PAVEMENT MARKING

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

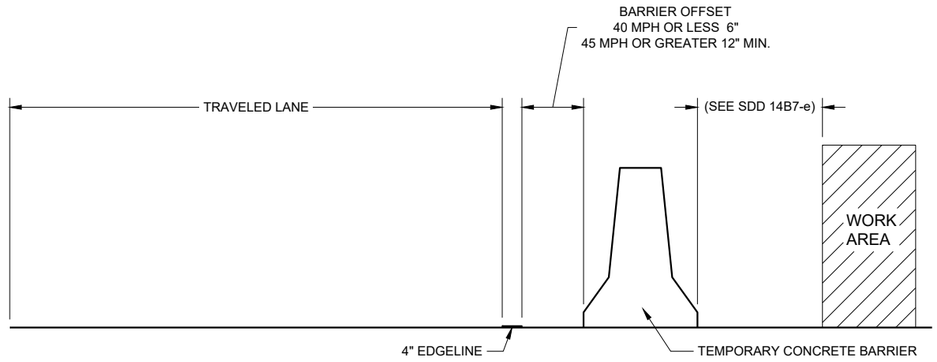
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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May 2022 — DATE
/S/ Jeannie Silver — STATEWIDE SIGNING AND M ENGINEER

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SDD 15C08 - 21a

SDD 15C08 - 21a



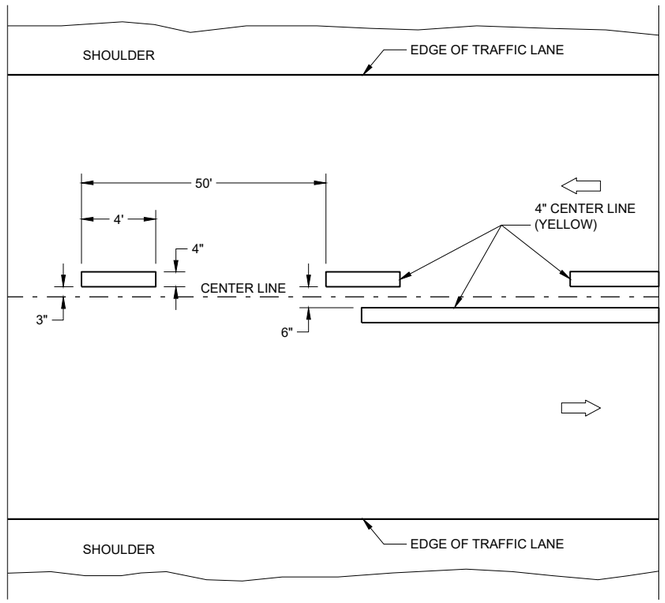
TEMPORARY BARRIER OFFSET FROM EDGELINE

GENERAL NOTES

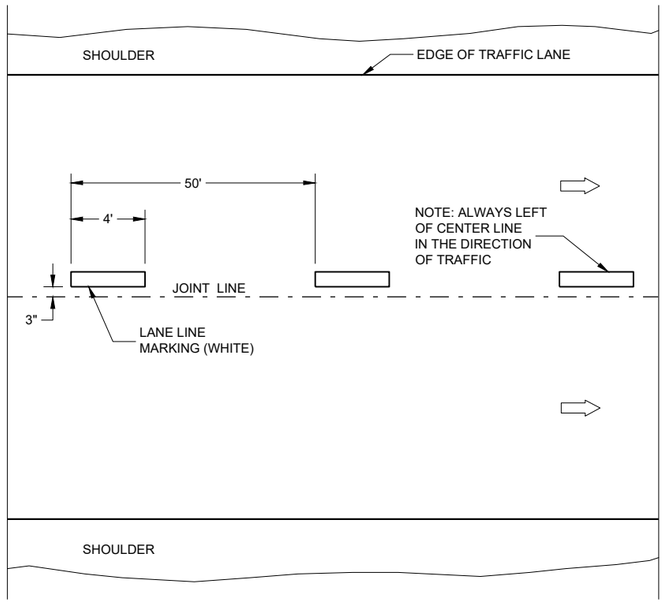
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

LEGEND

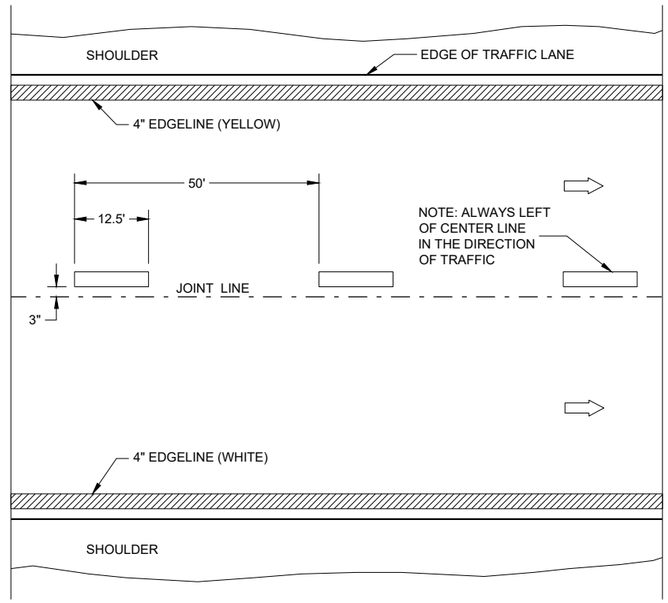
DIRECTION OF TRAFFIC



TWO WAY TRAFFIC



ONE WAY TRAFFIC



FREEWAYS AND EXPRESSWAYS

TEMPORARY PAVEMENT MARKING

6

SDD 15C08 - 21b

TEMPORARY LONGITUDINAL PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2022 — DATE

/S/ Jeannie Silver — STATEWIDE SIGNING AND M ENGINEER

FHWA

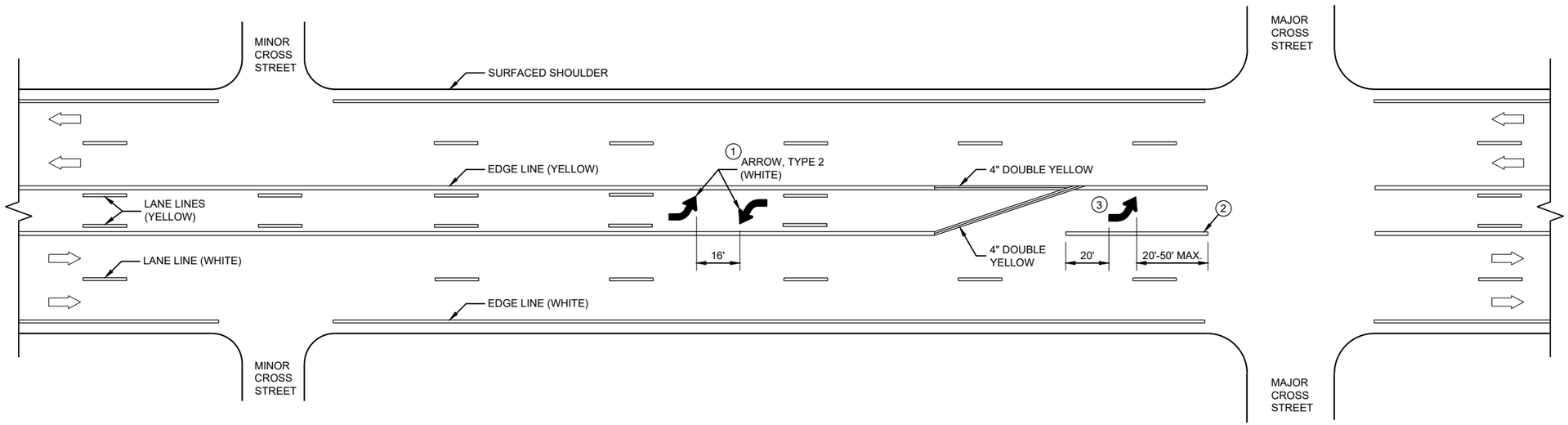
6

SDD 15C08 - 21b

GENERAL NOTES

1. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
2. 8" WHITE
3. TURN BAY LENGTH OF LESS THAN 48' DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT.

DIRECTION OF TRAFFIC



TWO WAY LEFT TURN LANE

6

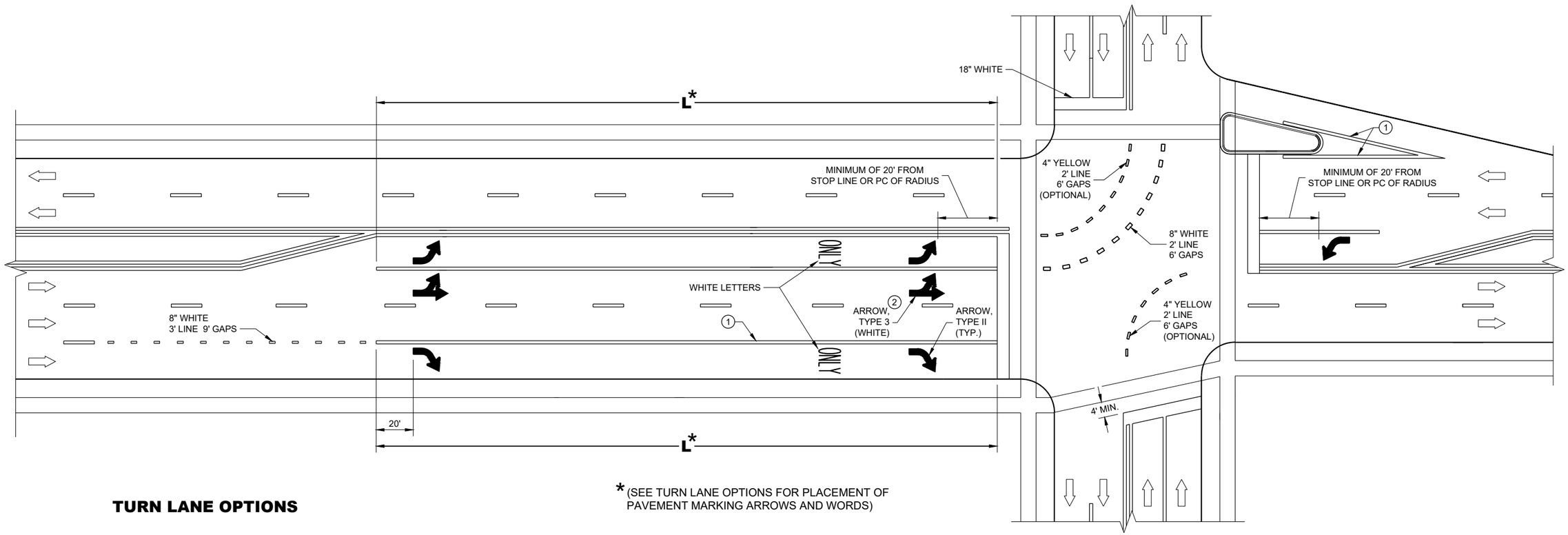
SDD 15C08 - 21c

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

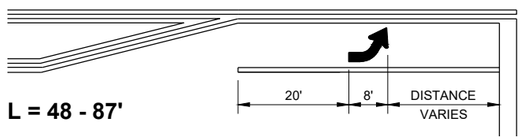
SDD 15C08 - 21c



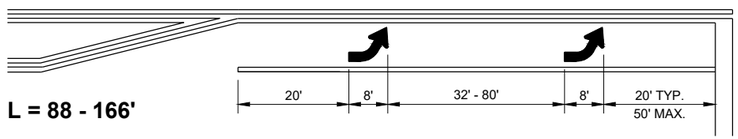
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

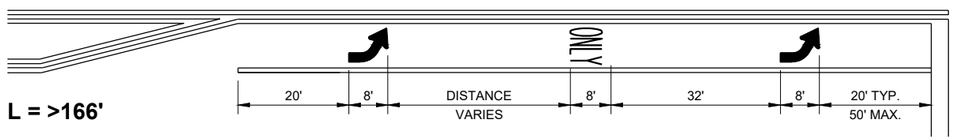
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48 - 87'



L = 88 - 166'



L = >166'

GENERAL NOTES

1. 8" WHITE
2. QUANTITY AND LOCATION OF TYPE 3 ARROWS ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION IN THE SAME DIRECTION OF TRAVEL, THE ARROWS AND "ONLY" MARKING MAY BE ELIMINATED.

DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

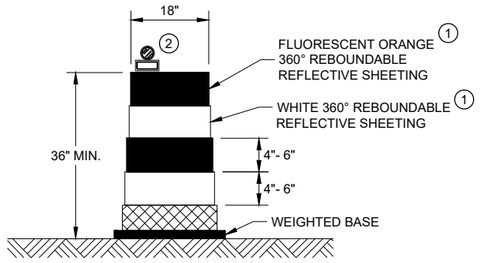
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

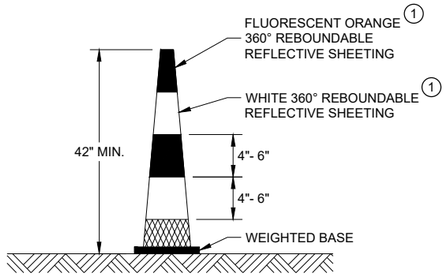
SDD 15C08 - 21d

GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

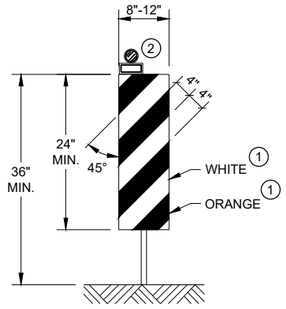


DRUM



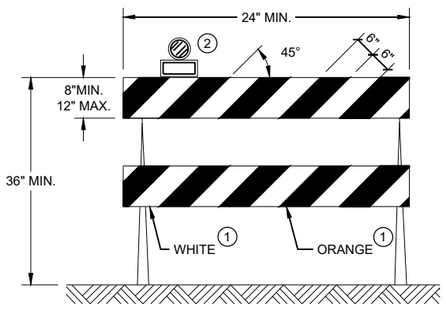
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



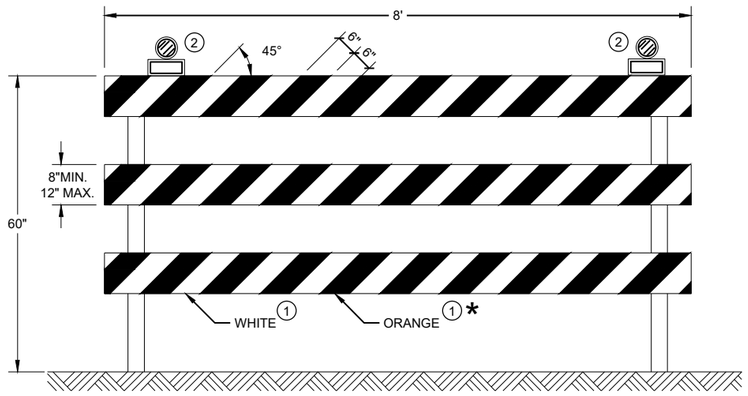
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

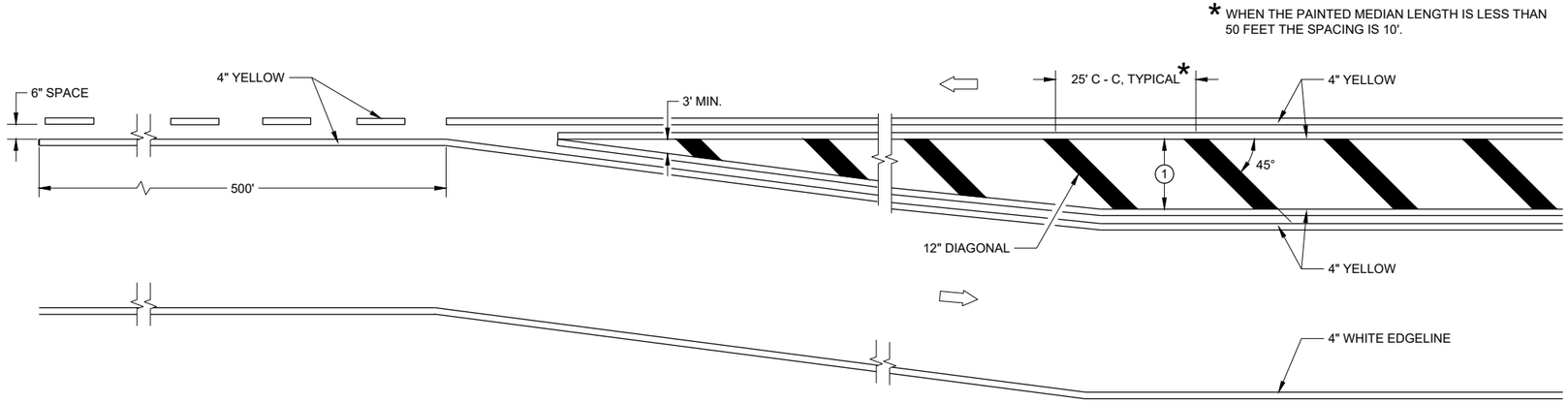
APPROVED
May 2021 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

6

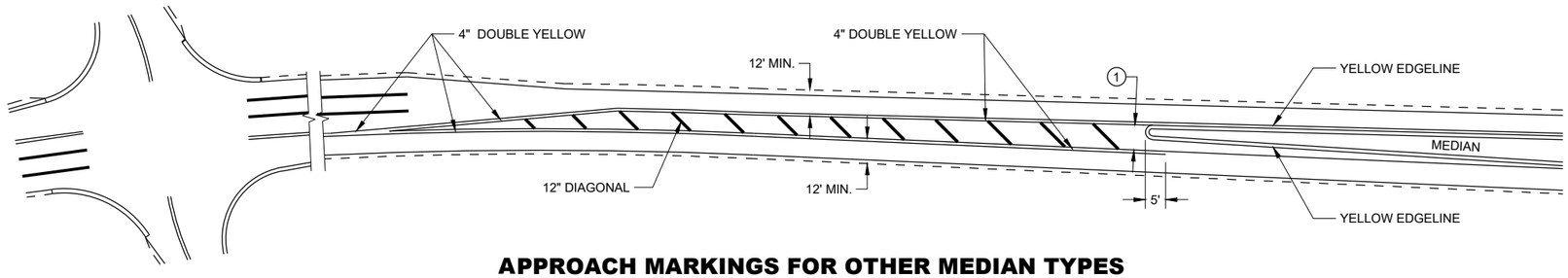
SDD 15C11 - 09b

6

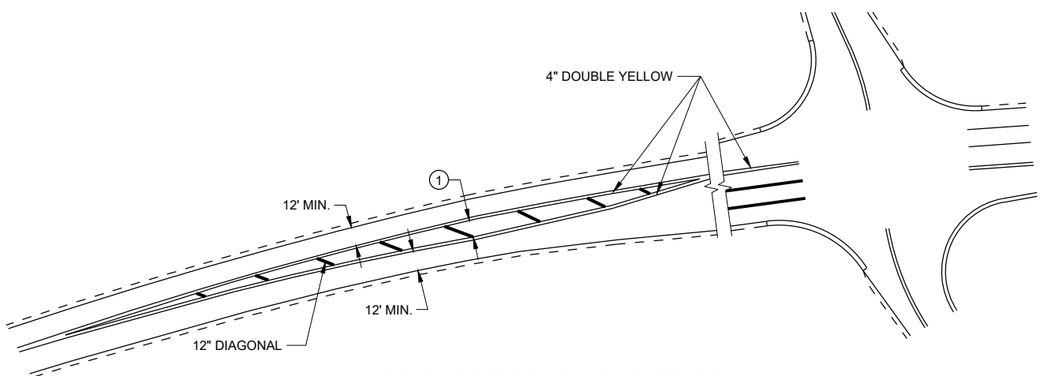
SDD 15C11 - 09b



MEDIAN ISLAND DETAIL



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON-APPROACH MARKINGS

GENERAL NOTES

1. DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT THE WIDEST POINT. OMIT DIAGONALS IF WIDTH IS LESS THAN 4 FEET.

⇨ DIRECTION OF TRAVEL

MEDIAN ISLAND PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

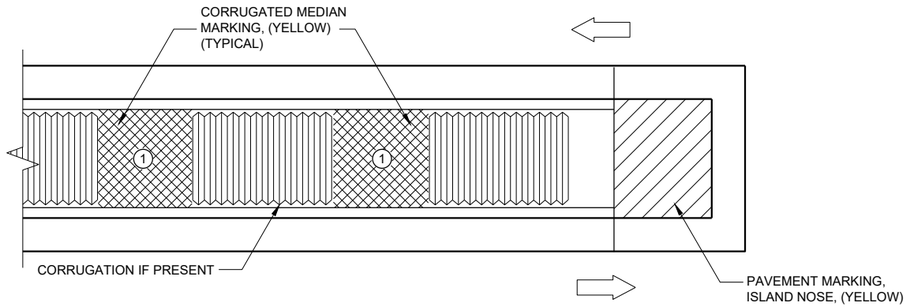
APPROVED
May 2022 — DATE
/S/ Jeannie Silver — STATE SIGNING AND MAF ENGINEER
FHWA

6

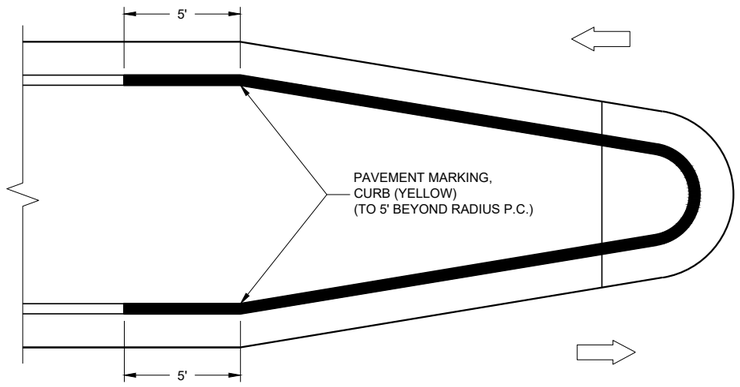
SDD 15C18 - 06a

6

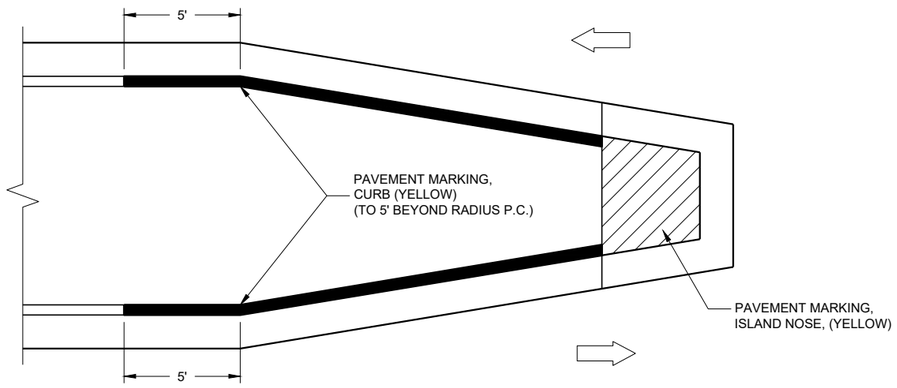
SDD 15C18 - 06a



MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

GENERAL NOTES

WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION, YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.

(1) APPLY PAVEMENT MARKING TO THE FLAT PORTION OF CORRUGATED MEDIAN.

ISLAND NOSE MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL

PAVEMENT MARKINGS, MEDIAN ISLAND NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2022
DATE

/S/ Jeannie Silver
STATE SIGNING AND MAR ENGINEER

FHWA

6

SDD 15C18 - 06b

SDD15C18 - 06b

GENERAL NOTES

SIGNING AND MARKING IS SHOWN AS TYPICAL PLACEMENT. FIELD CONDITIONS MAY DICTATE CHANGES IN SIGNING AND MARKING PLACEMENT.

(1) USED ONLY WHEN APPROVED BY REGION TRAFFIC ENGINEER.

* SIGNS MAY BE OMITTED IF SPACE DOES NOT PERMIT PLACEMENT.

** IF POSTED SPEED IS 45 MPH OR GREATER, PLACE W5-54 SIGN UNDER R4-7 SIGN. MOUNT W5-54 SIGN AT 4' MOUNTING HEIGHT (TOP OF ROADWAY TO BOTTOM OF SIGN).

LEGEND

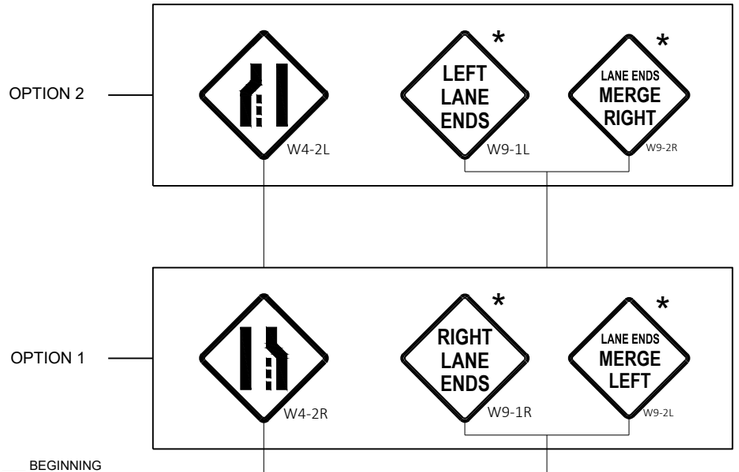
A DISTANCE DEPENDENT ON SPEED (SEE TABLE)

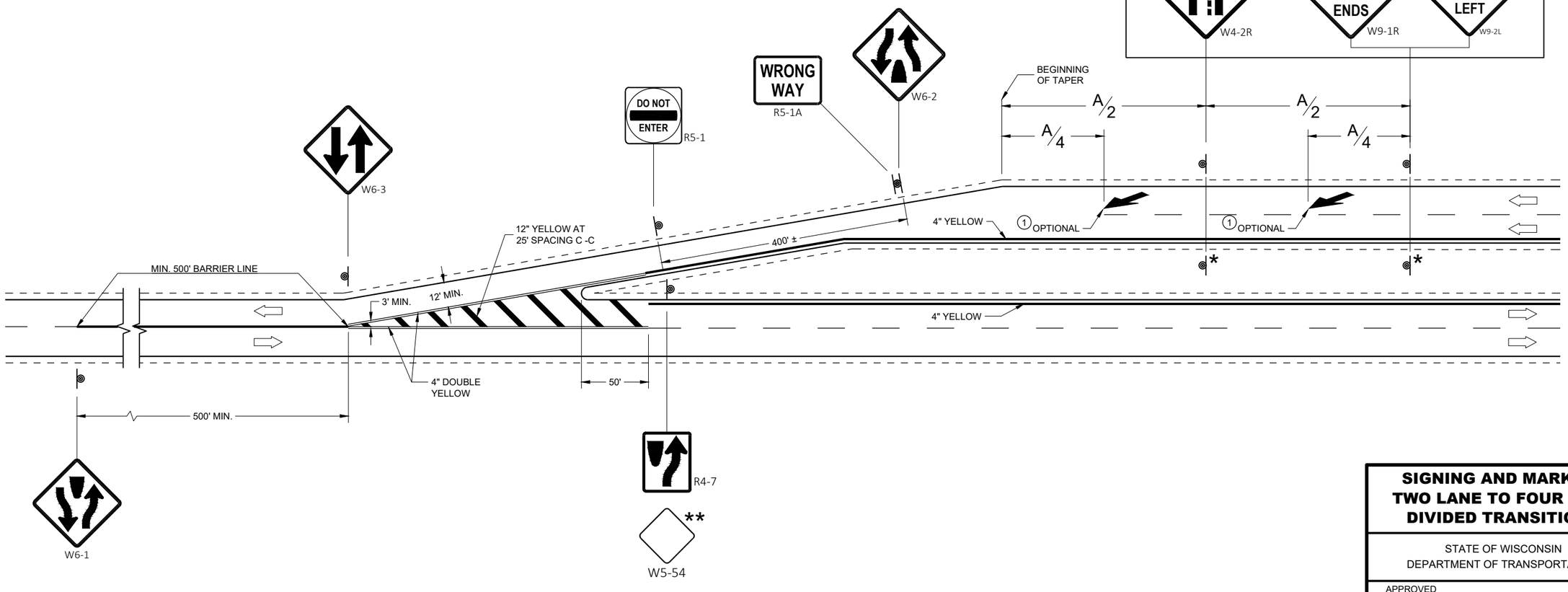
SIGN MOUNTED ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

DISTANCE TABLE

POSTED OR 85TH PERCENTILE SPEED	DISTANCE "A"
25	325'
30	460'
35	565'
40	670'
45	775'
50	885'
55	990'
65	1200'
70	1250'





SIGNING AND MARKING TWO LANE TO FOUR LANE DIVIDED TRANSITIONS

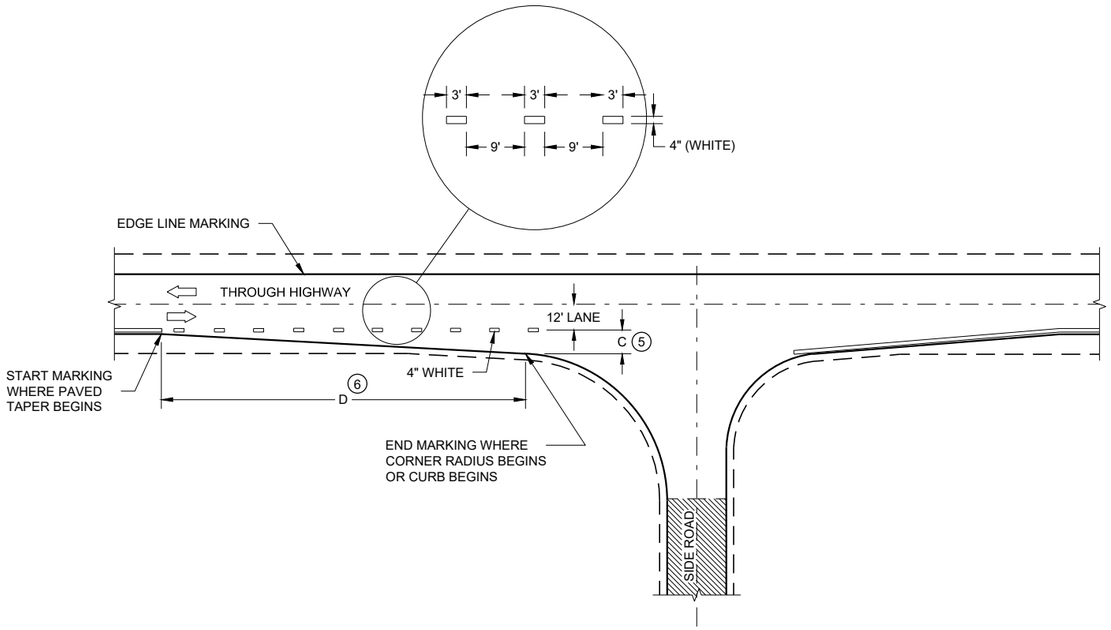
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MAR ENGINEER

FHWA

6

SDD 15C21 - 10



MINOR INTERSECTION

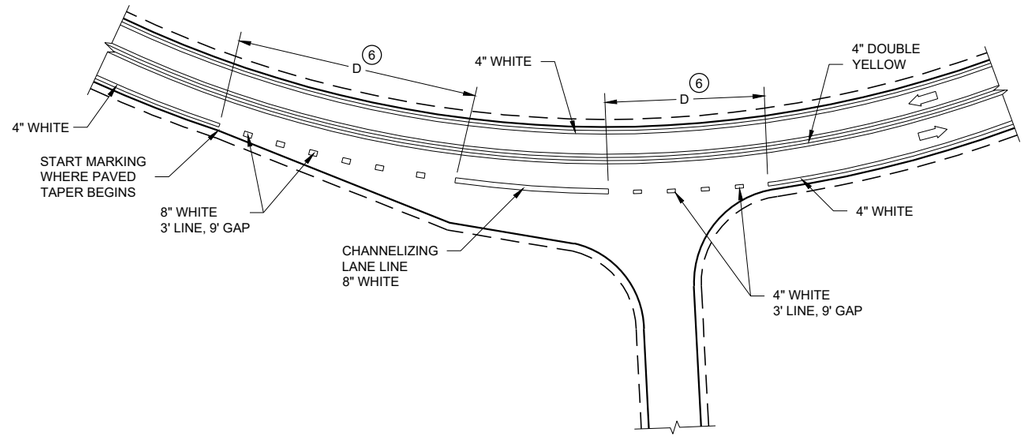
GENERAL NOTES

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

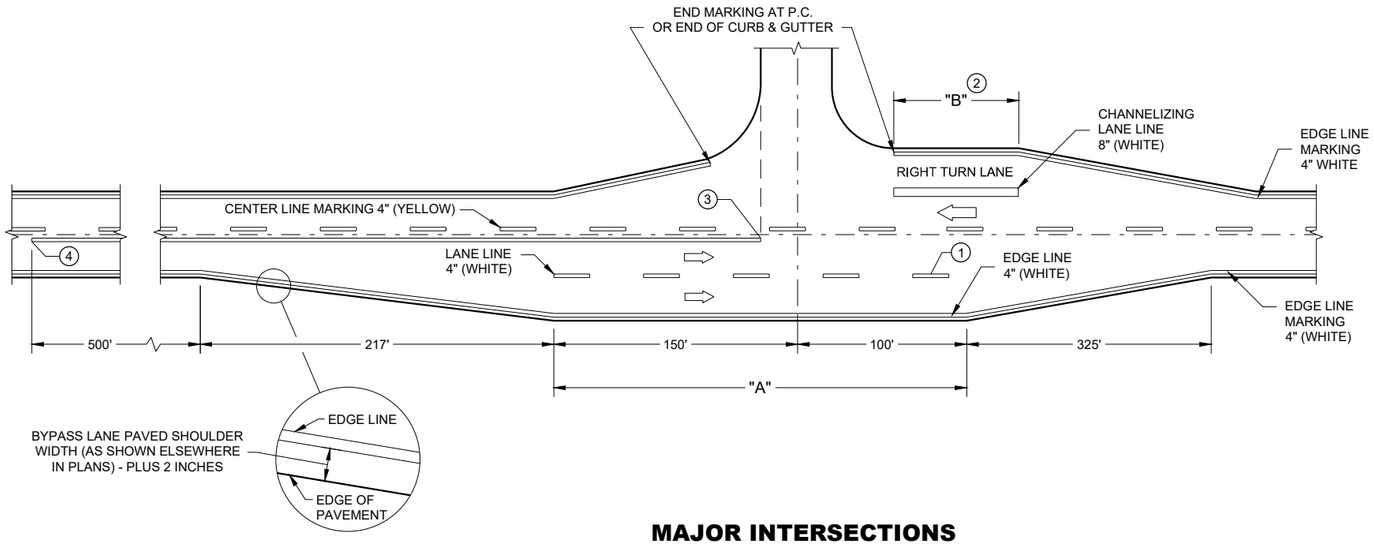
1. WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
2. WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
3. BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
4. BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.
5. WHEN DISTANCE "C" IS LESS THAN 4 FEET,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

LEGEND

DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

PAVEMENT MARKING (INTERSECTIONS)

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET
0-30	200'
35-40	350'
45-55	500'

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

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

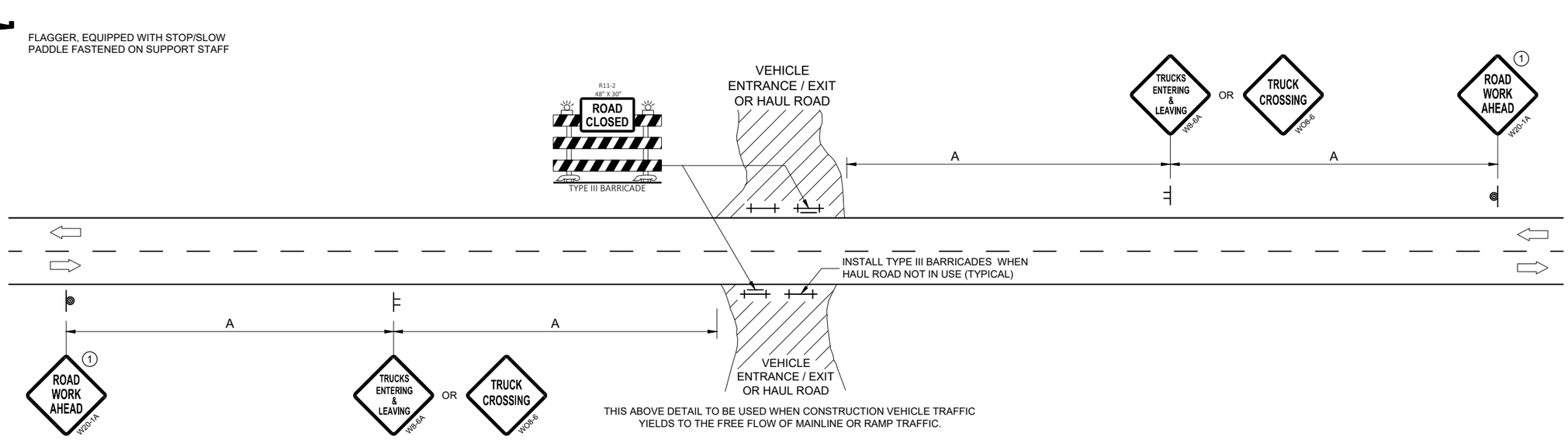
WARNING SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

WHEN ACTIVITY REFLECTED BY THE SIGN IS NOT CURRENTLY TAKING PLACE, THE HIGHWAY SHALL BE RESTORED TO NORMAL CONDITION AND THE SIGNS SHALL BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC.

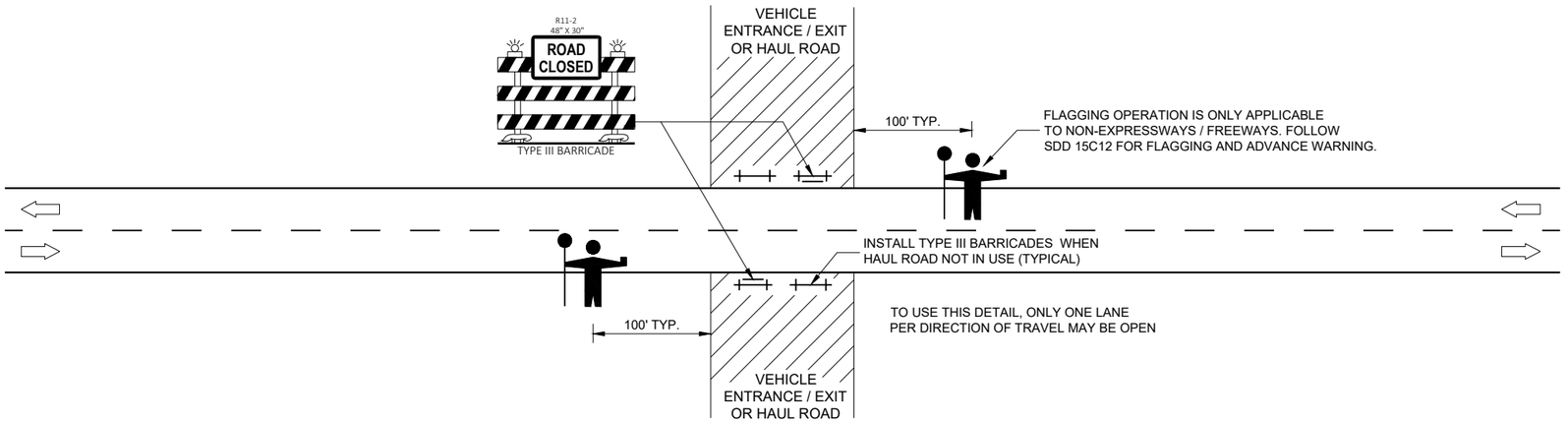
WHEN A SIDE ROAD OR RAMP INTERSECTS WITHIN THE ADVANCE SIGNING AREA, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND / OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

PLACE SIGNS ON BOTH SIDES IF USED ON DIVIDED HIGHWAY.

(1) THESE SIGNS ARE TO BE USED ONLY WHEN VEHICLE ENTRANCE / EXIT CONDITIONS ARE SEPARATED BY MORE THAN TWO MILES FROM PREVIOUS WORK AREA OR SIGNING OR AS DIRECTED BY THE ENGINEER.



THIS ABOVE DETAIL TO BE USED WHEN CONSTRUCTION VEHICLE TRAFFIC YIELDS TO THE FREE FLOW OF MAINLINE OR RAMP TRAFFIC.



TO USE THIS DETAIL, ONLY ONE LANE PER DIRECTION OF TRAVEL MAY BE OPEN

THIS DETAIL TO BE USED WHEN CONSTRUCTION WORK INCLUDING TRUCKING ACTIVITY REQUIRES MAINLINE TRAFFIC TO BE TEMPORARILY STOPPED IN ONE OR BOTH DIRECTIONS. DELAY TO HIGHWAY TRAFFIC SHALL BE MINIMIZED.

TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020
DATE

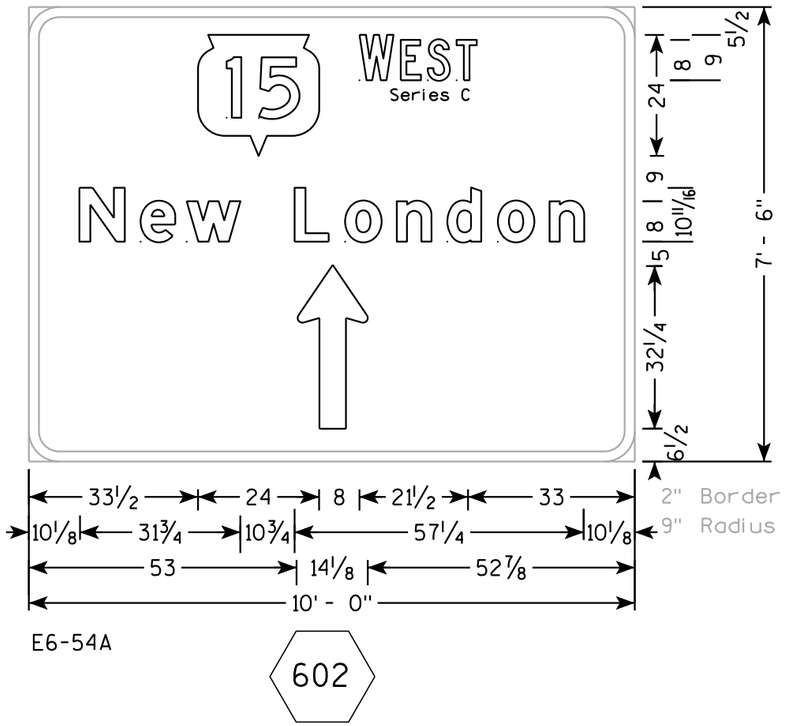
/S/ Andrew Heidtke
WORK ZONE ENGINEER

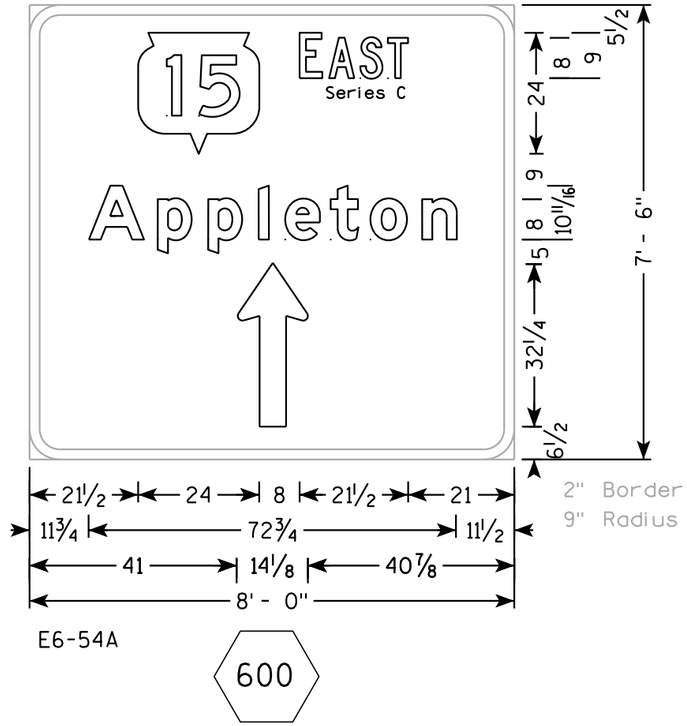
FHWA

6
SDD 15D29 - 06

NOTES

1. All Signs are Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except as noted





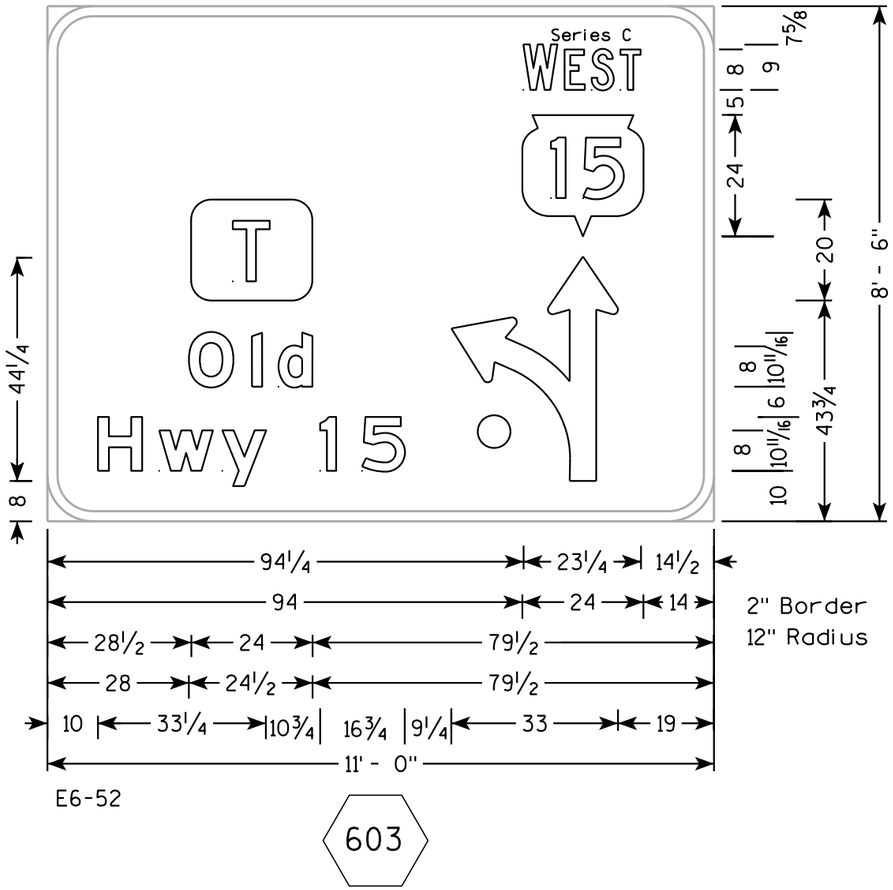
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7

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	PERMANENT SIGNING	SHEET NO: 171	E

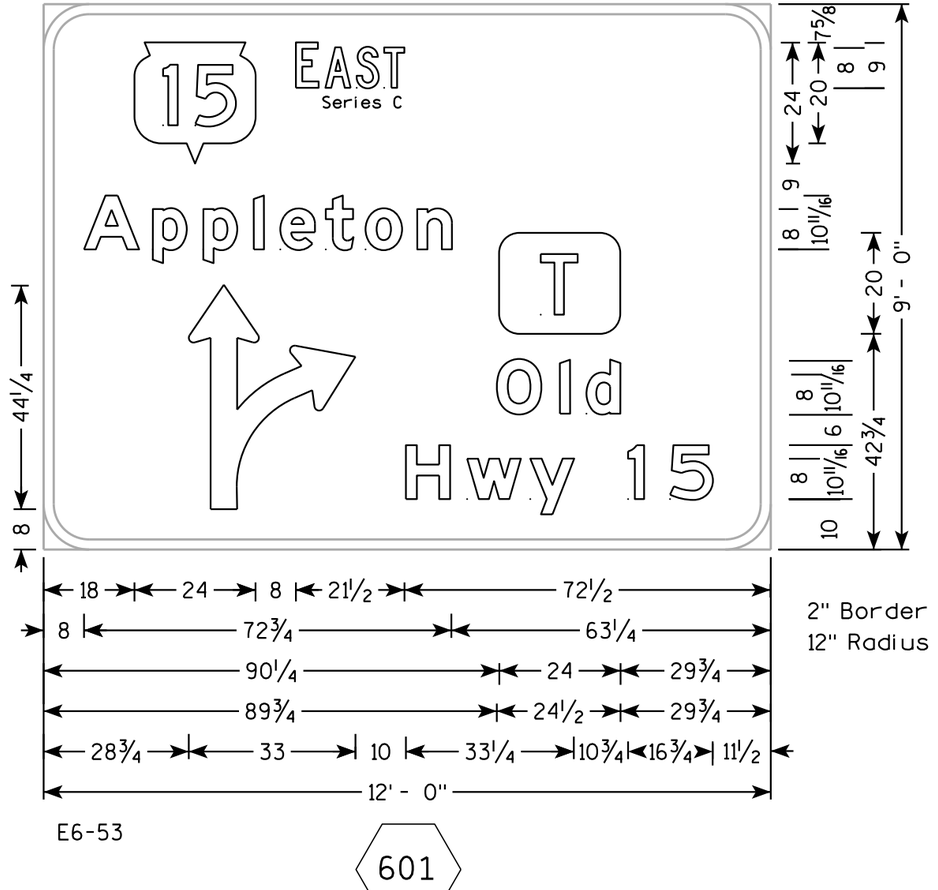
NOTES

1. All Signs are Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except as noted



E6-52

603

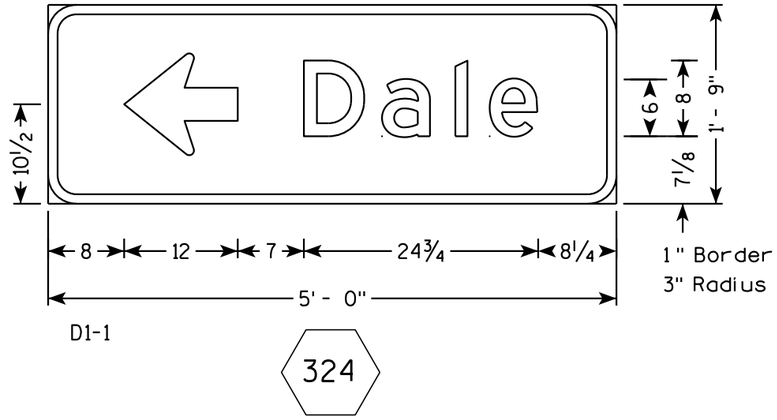


E6-53

601

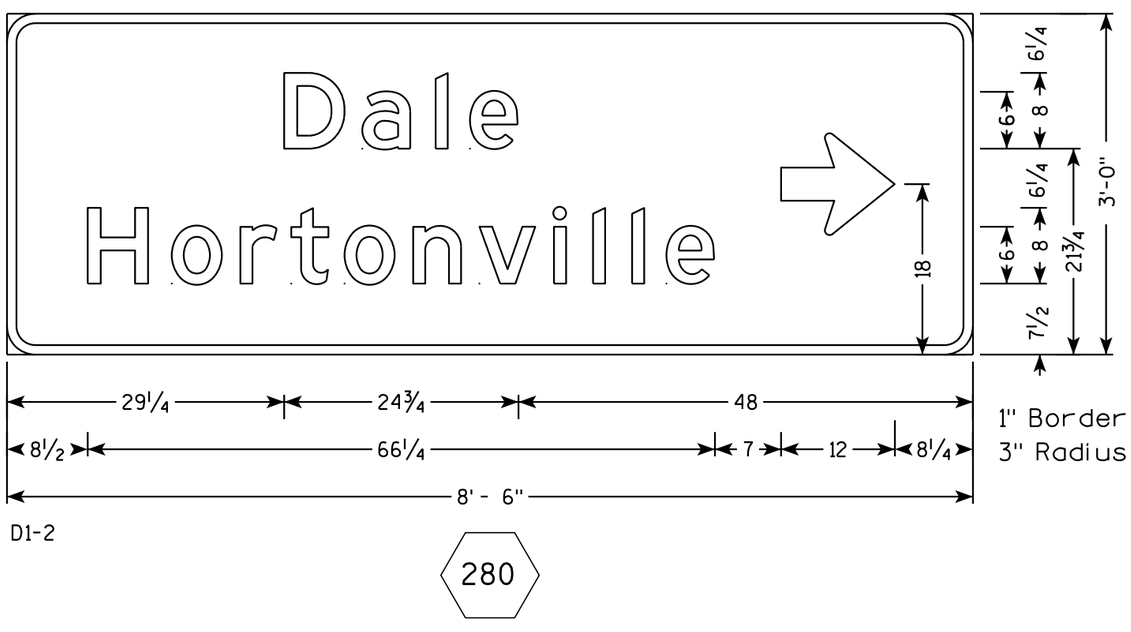
NOTES

1. All Sign Type II - Type H Reflective
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - E



D1-1

324



D1-2

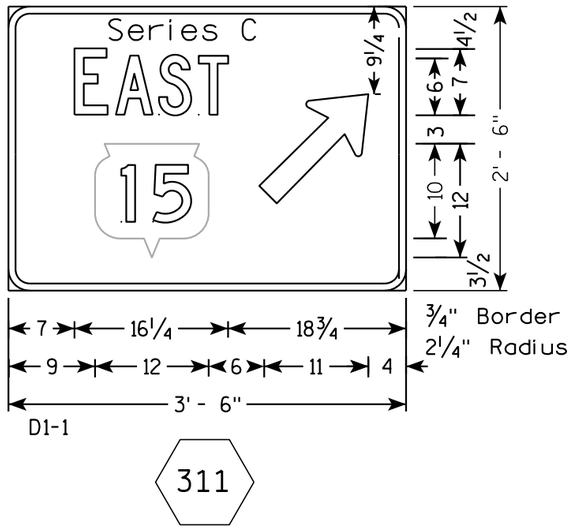
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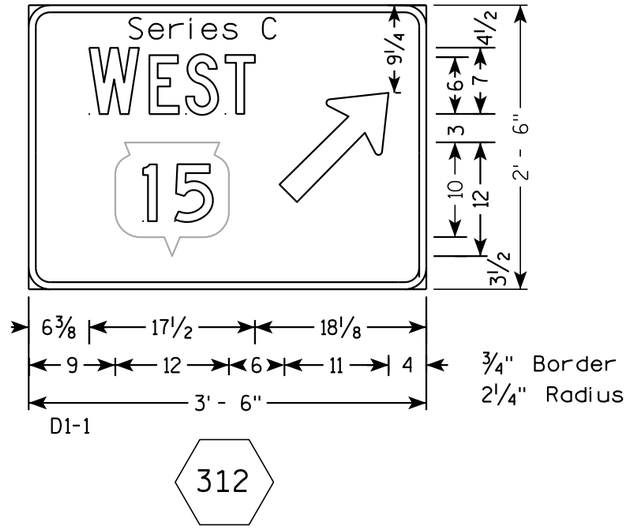
7

NOTES

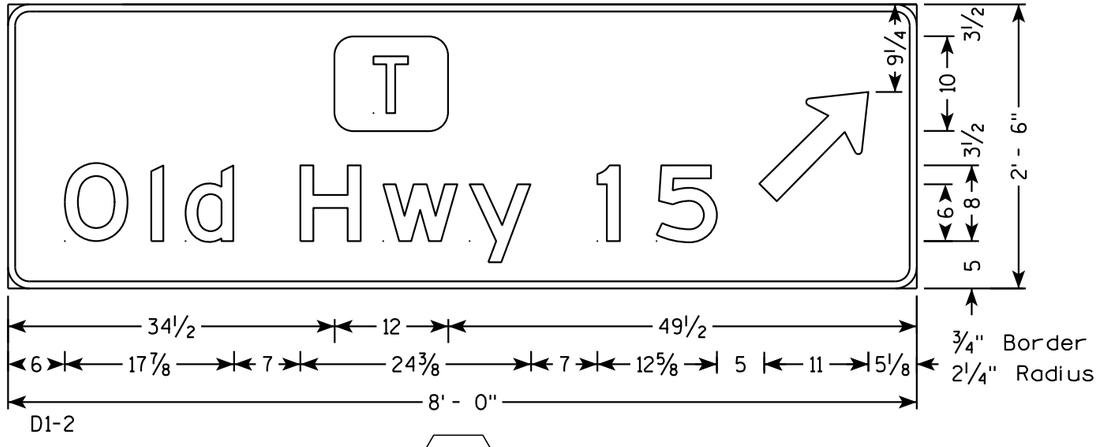
1. All Sign Type II - Type H Reflective
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - E except as Shown



311



312

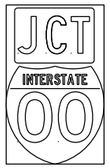


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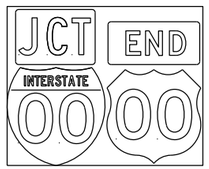
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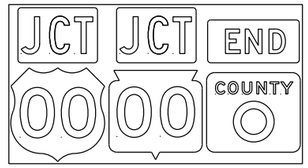
TYPICAL ASSEMBLIES



J1-1



J1-2



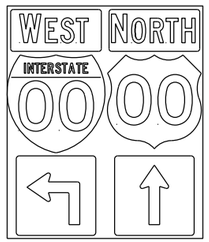
J1-3



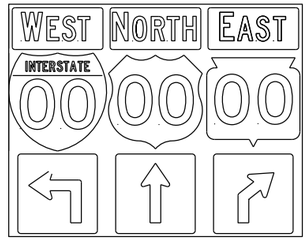
JR1-1



J2-1



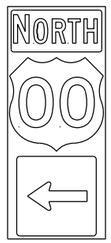
J2-2



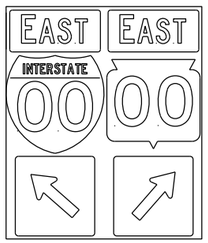
J2-3



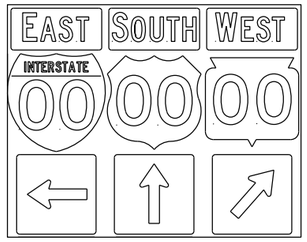
JV
(Typical Vertical J-Assembly
See Note 10 and 11)



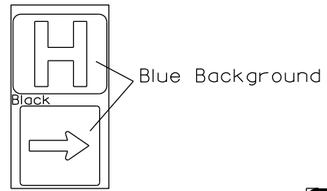
J3-1



J3-2



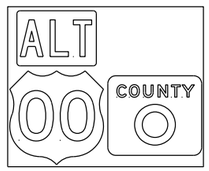
J3-3



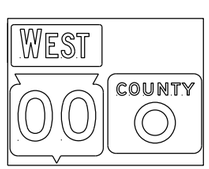
JH-1



J4-1



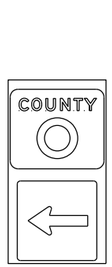
J4-2



J4-2



J12-1



J13-1



J32-1



J33-1



J22-1



J23-1



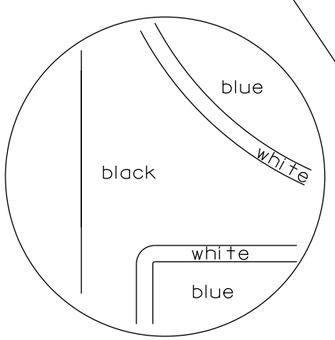
JR13-1

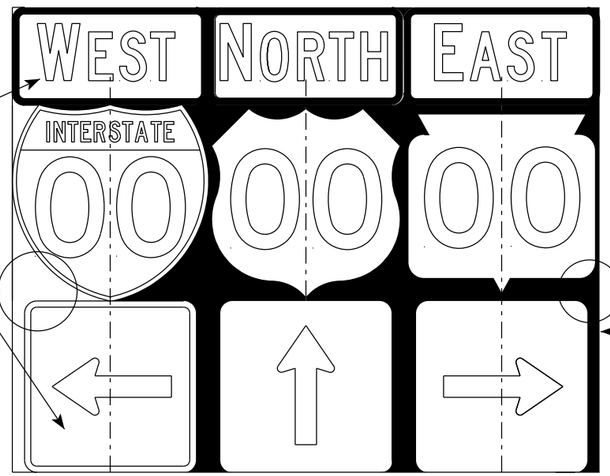


JR23-1



JR99-1





NOTES

1. Signs are Type II - Type H Reflective
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 3/18/21 PLATE NO. A2-1S.9

PROJECT NO:

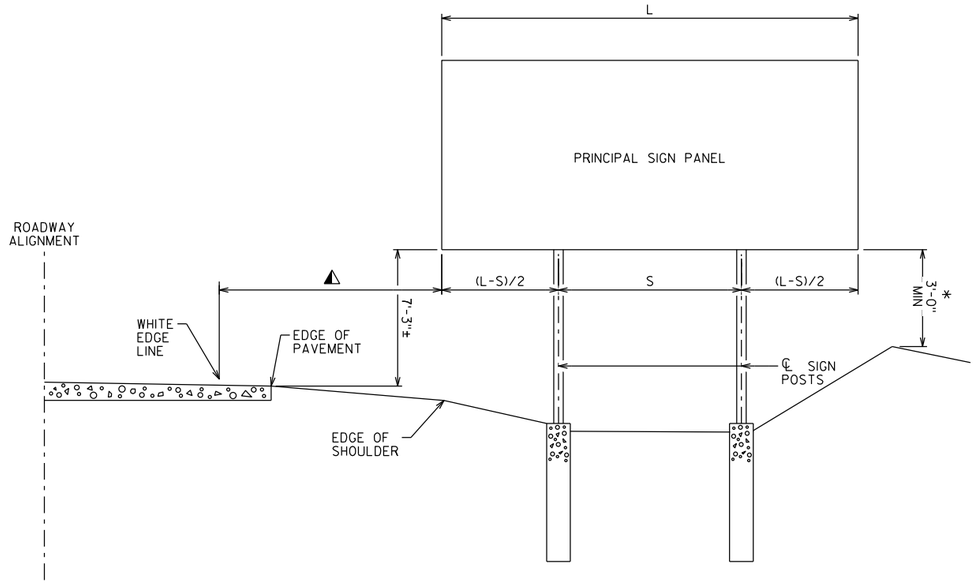
SHEET NO: 175 E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate_A21S.dgn PLOT DATE : 18-MAR 2021 1:37 PLOT BY : mscj9h PLOT NAME :

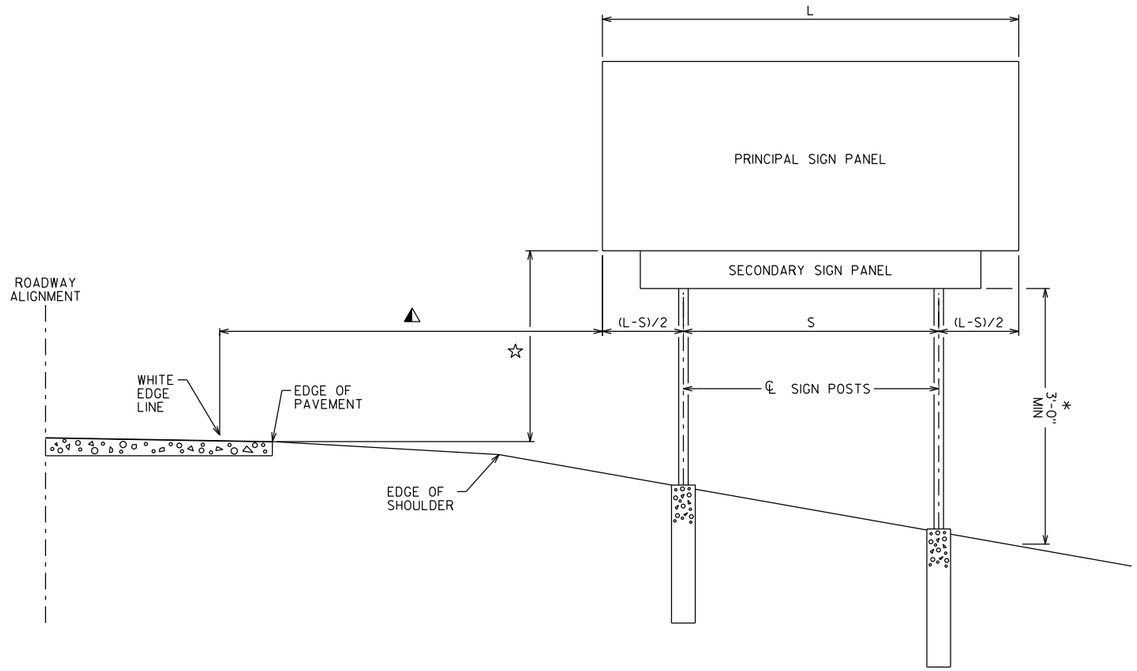
WISDOT/CADDS SHEET 42

7

7



INSTALLATION WITHOUT SECONDARY SIGN



INSTALLATION WITH SECONDARY SIGN

TYPE 1 SIGN INSTALLATION NOTES:

FOR A 2-POST INSTALLATION, "S" EQUALS 3L/5, BUT SHALL NOT BE LESS THAN 6'-0".

FOR A 3-POST INSTALLATION, "S" EQUALS 5L/7, BUT SHALL NOT BE LESS THAN 12'-0". THE SPACING BETWEEN ANY TWO POSTS SHALL NOT BE LESS THAN 6'-0".

⚠ UNLESS NOTED IN THE PLANS, THE SIGN OFFSET DISTANCE SHALL BE A MINIMUM OF 17'-6" FROM THE WHITE EDGE LINE, DESIRABLE 30'-0".

THE ± TOLERANCE SHOWN ON THIS SHEETS IS 3".

THE VERTICAL SIGN HEIGHT CLEARANCES SHOWN ON THIS SHEET ARE MEASURED FROM THE BOTTOM OF THE SIGN PANEL TO THE NEAR EDGE OF PAVEMENT.

☆ THE VERTICAL CLEARANCE SHALL BE 8'-3"± WHEN THE SECONDARY SIGN HEIGHT IS 3'-0" OR LESS. FOR SECONDARY SIGN HEIGHTS LARGER THAN 3'-0", THE VERTICAL CLEARANCE TO THE BOTTOM OF THE SECONDARY SIGN PANEL SHALL BE 5'-3"±.

* THE VERTICAL SIGN GROUND CLEARANCE ON RIGHT END OF SIGN SHALL BE A MINIMUM OF 3'-0"±.

POST LENGTHS SHOWN IN THE MISCELLANEOUS QUANTITIES ARE ESTIMATED LENGTHS. THE CONTRACTOR SHALL VERIFY POST LENGTHS AT THE TIME OF FINAL GRADING.

REFER TO THE TRAFFIC ENGINEERING OPERATIONS AND SAFETY MANUAL FOR FURTHER GUIDANCE ON MINIMUM VERTICAL CLEARANCE REQUIREMENTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE BTO TYPE I SIGNS

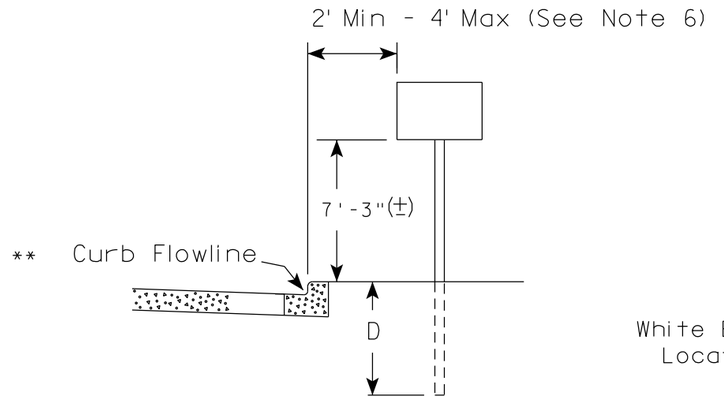
DRAWN BY | PLANS CK'D.

TYPICAL TYPE I SIGN INSTALLATION

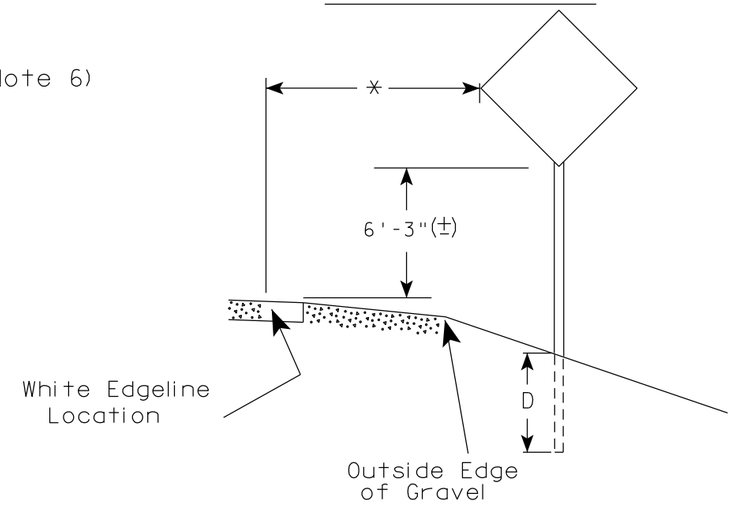
SHEET A4-1.10

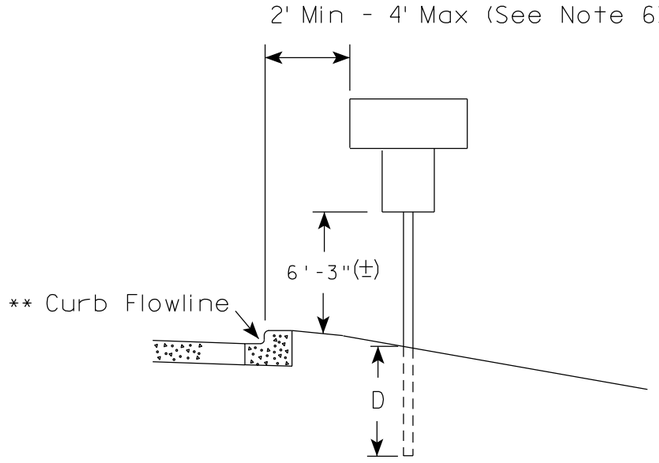
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 176 | E

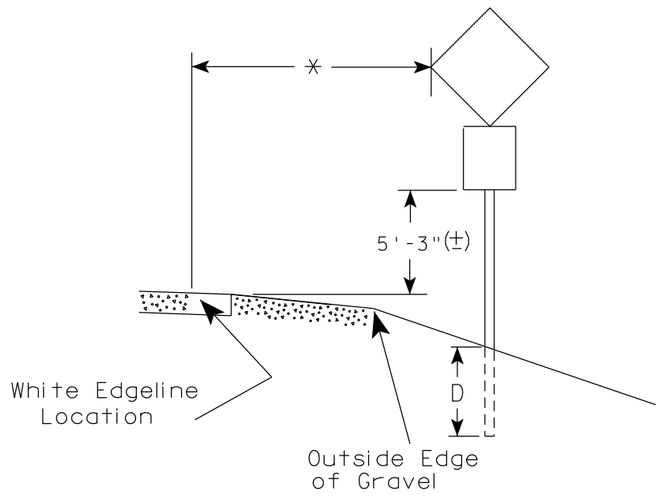
URBAN AREA



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 or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. The (±) tolerance for mounting height is 3 inches.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.

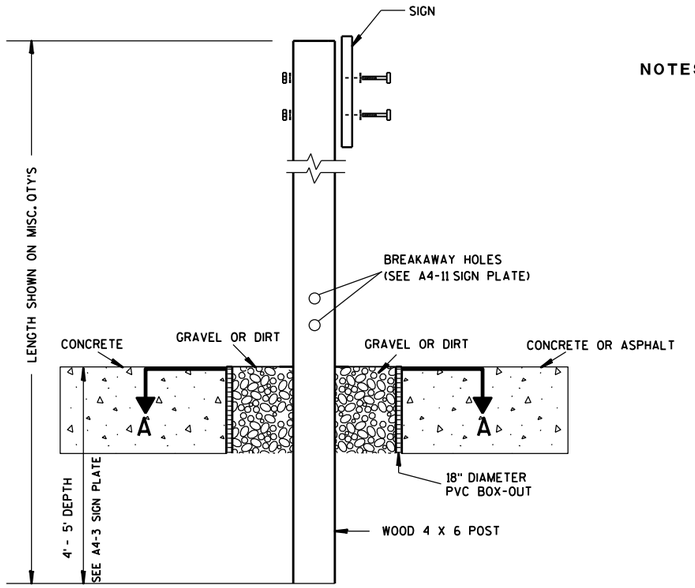
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

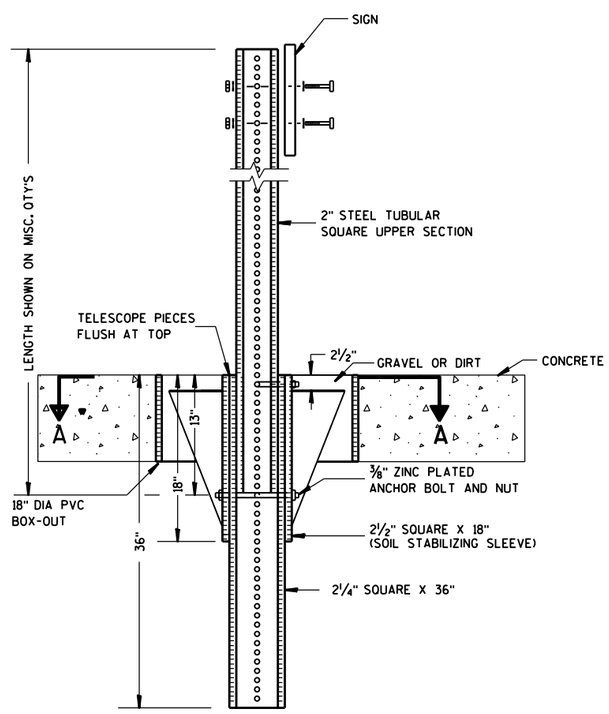
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 177	E



ELEVATION VIEW

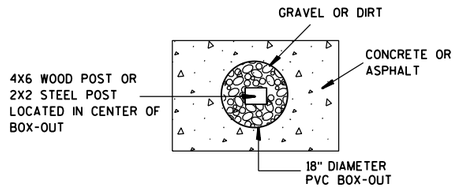
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

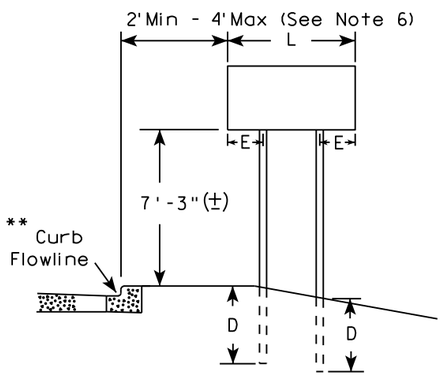
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

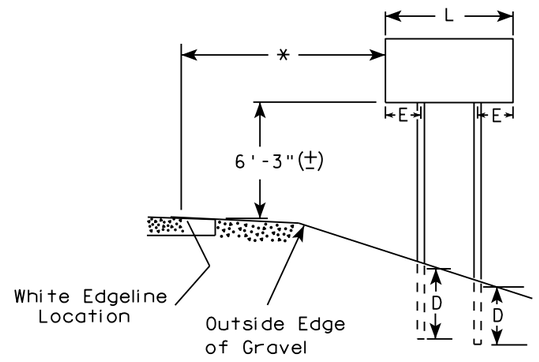
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

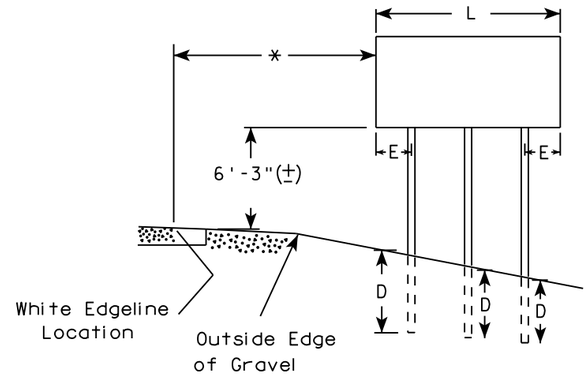
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

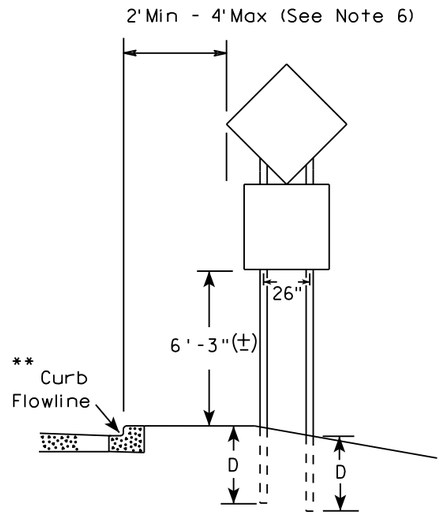
URBAN AREA



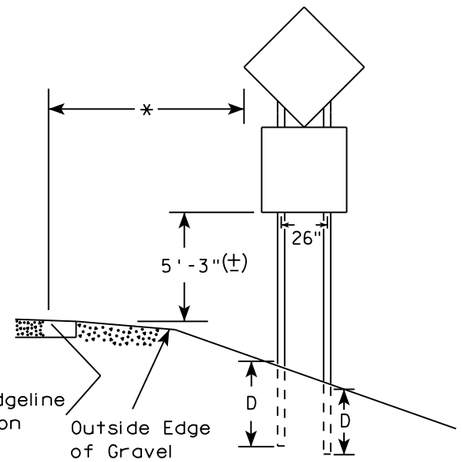
RURAL AREA (See Note 3)







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

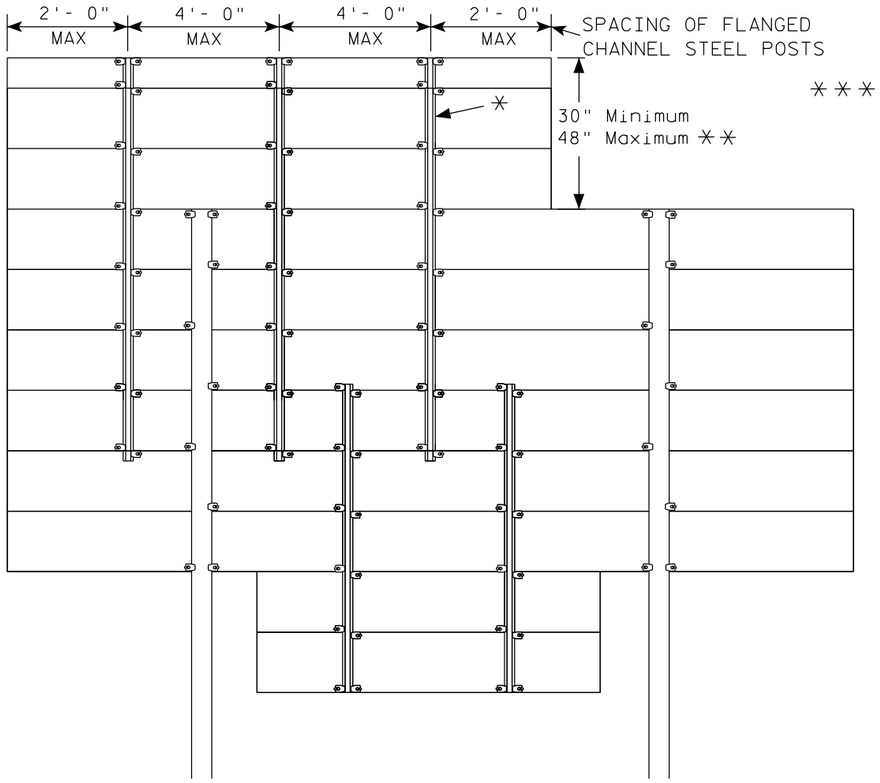
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 179	E

GROUND MOUNTED SIGN



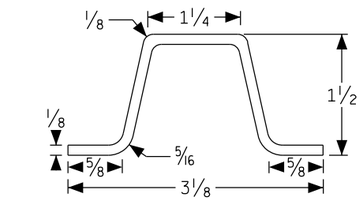
✳=2.00 lb/ft AND 4.00 lb/ft FLANGED CHANNEL, MIN. YIELD STRENGTH = 60,000 PSI (GRADE 60) GALVANIZED

✳✳=FOR 48" HEIGHT PANELS ON OVERHEAD STRUCTURES, ENTIRE SIGN SHALL BE CENTERED VERTICALLY ABOUT THE DEPTH OF THE TRUSS.

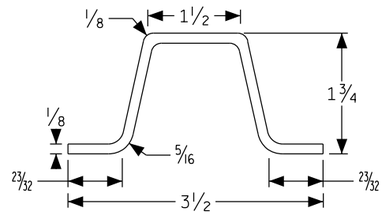
✳✳✳ THESE SPACING DISTANCES SHALL ONLY BE USED WHEN THE MAIN SIGN HAS A MAXIMUM HEIGHT (DIMENSION H) OF 15 FT OR LESS. FOR SIGNS WITH A HEIGHT OF GREATER THAN 15 FT, STRUCTURAL CALCULATIONS SHALL BE PERFORMED.

FLANGE CHANNEL DETAILS

NOT TO SCALE

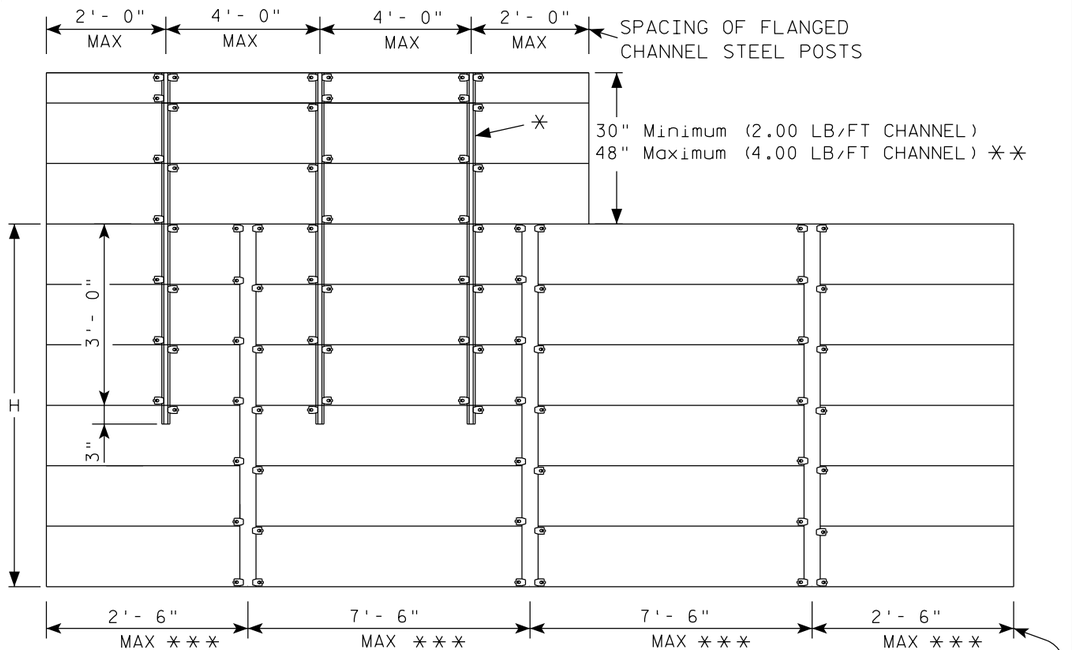


2.00 LB/FT CHANNEL



4.00 LB/FT CHANNEL

SIGN BRIDGE MOUNTED SIGN



SPACING OF ALUMINUM SIGN SUPPORTS
5" X 3.5" X 3.7 LBS./ft.

GENERAL NOTES

1. Flanged channel steel posts shall conform to size and material above, and shall be considered as incidental to other items in the contract.
2. Number of Flanged channel steel supports varies with length of panel and shall be spaced as shown:

   PANEL LENGTH 8'-0" OR LESS = 2 CHANNELS
   PANEL LENGTH 9'- 0" - 12'- 0" = 3 CHANNELS
   PANEL LENGTH 13'- 0" OR MORE = 4 CHANNELS

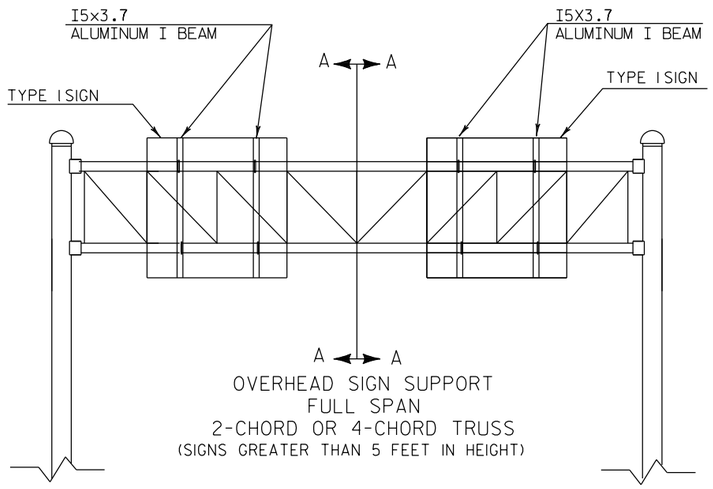
   If the flanged channel steel posts can not be horizontally spaced as shown, they can be moved so as to securely hold the sign.
3. The EXIT NUMBER PANEL shall normally be positioned above the guide sign aligned with the right edge of the guide sign. If the guide sign indicates a left exit, the EXIT NUMBER PANEL shall be aligned with the left edge of the guide sign.
4. If the bolt holes in the top panel (EXIT NUMBER), or sub panel (NEXT EXIT) line up with holes in main sign panel, stitch bolts shall be used in addition to the channels.
5. Provide post clips for each sign as shown. (Please note the differences between a ground mounted versus Sign bridge mounted sign as far as number of clips required on the main supports or beams)
6. Structural steel sign supports shall extend to the top of the main signs, as shown on the above details.

ATTACHMENT OF GUIDE SIGNS TO SUPPORTS

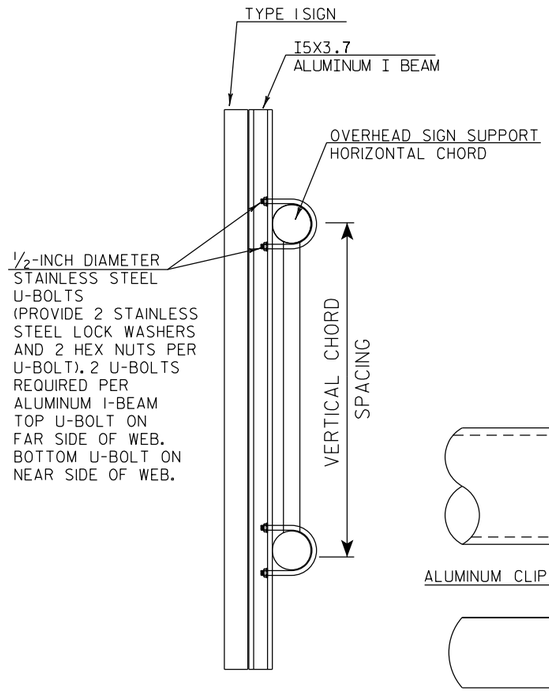
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

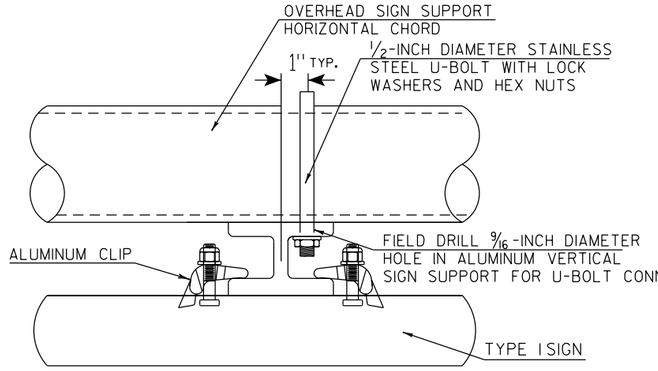
DATE 1/07/20 PLATE NO. A4-6.12



OVERHEAD SIGN SUPPORT
FULL SPAN
2-CHORD OR 4-CHORD TRUSS
(SIGNS GREATER THAN 5 FEET IN HEIGHT)



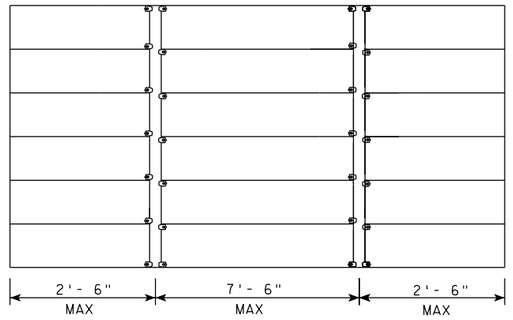
CUT SECTION A-A



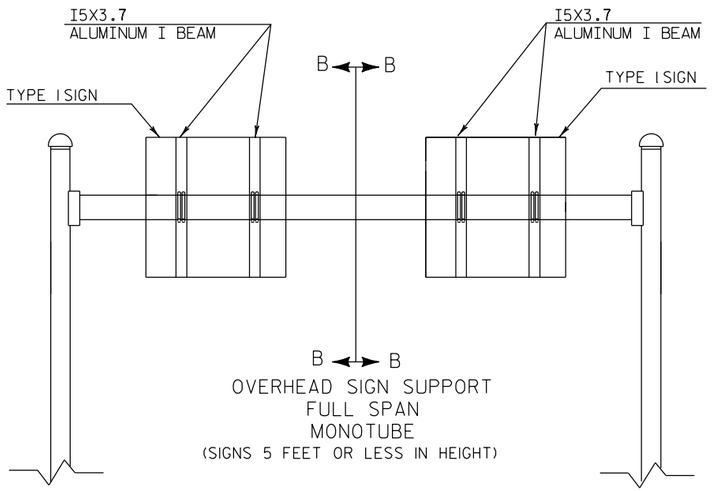
TYPICAL SIGN CONNECTION FOR
2-CHORD OR 4-CHORD TRUSS
PLAN VIEW

GENERAL NOTES

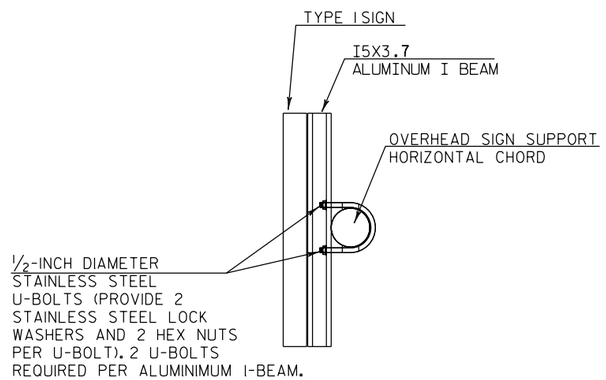
1. USE STAINLESS STEEL U-BOLTS, WASHERS, AND NUTS.
2. USE CLIPS ON EVERY EXTRUDED PANEL JOINT PER SIGN PLATE A4-6.
3. USE ALUMINUM VERTICAL SIGN SUPPORT BEAMS HAVING A 5 INCH BEAM DEPTH AND WEIGHT OF 3.7 LBS PER FOOT.
4. U-BOLTS SHALL BE STAINLESS STEEL AND MANUFACTURED TO THE PROPER SIZE TO FIT THE CHORDS OF THE OVERHEAD SIGN STRUCTURE.
5. DIAMETER OF U-BOLTS SHALL BE AS SHOWN.
6. THE LENGTH OF THE ALUMINUM VERTICAL SIGN SUPPORT BEAMS SHALL BE THE SAME AS THE HEIGHT OF THE SIGN THEY ARE SUPPORTING. BEAM LENGTHS MAY BE LONGER FOR PROPER ATTACHMENT TO CHORDS.
7. MINIMUM NUMBER OF BRACKETS PER SIGN IS TWO. SEE DETAIL BELOW FOR SPACING OF ALUMINUM VERTICAL SIGN SUPPORTS
8. MATERIAL NOTES:
   STAINLESS STEEL U-BOLTS AND LOCKWASHERS ASTM 304.
   STAINLESS STEEL HEX NUTS ASTM A276.
   ALUMINUM I-BEAMS ARE 6061-T6.
9. SLOTTED HOLES IN I-BEAMS ARE NOT ALLOWED



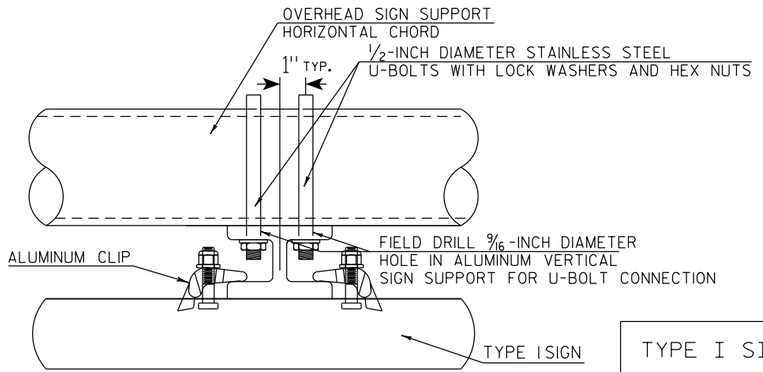
SPACING OF I5X3.7 ALUMINUM
VERTICAL SIGN SUPPORT



OVERHEAD SIGN SUPPORT
FULL SPAN
MONOTUBE
(SIGNS 5 FEET OR LESS IN HEIGHT)



CUT SECTION B-B



TYPICAL SIGN CONNECTION FOR
MONOTUBE
PLAN VIEW

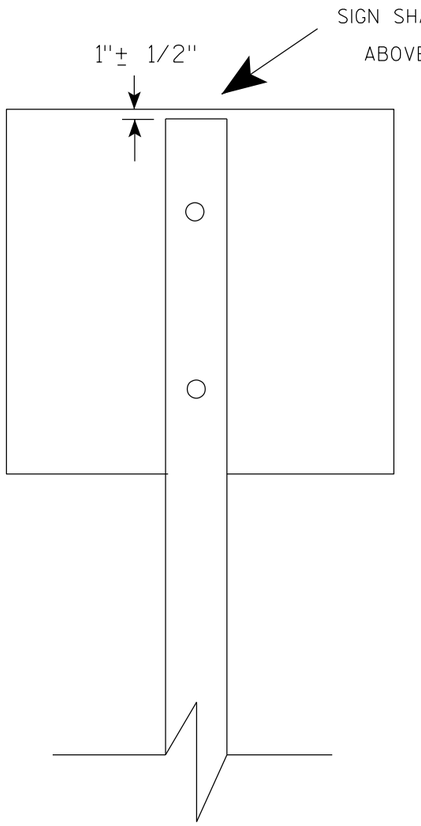
TYPE I SIGN CONNECTION
TO OVERHEAD SIGN SUPPORT

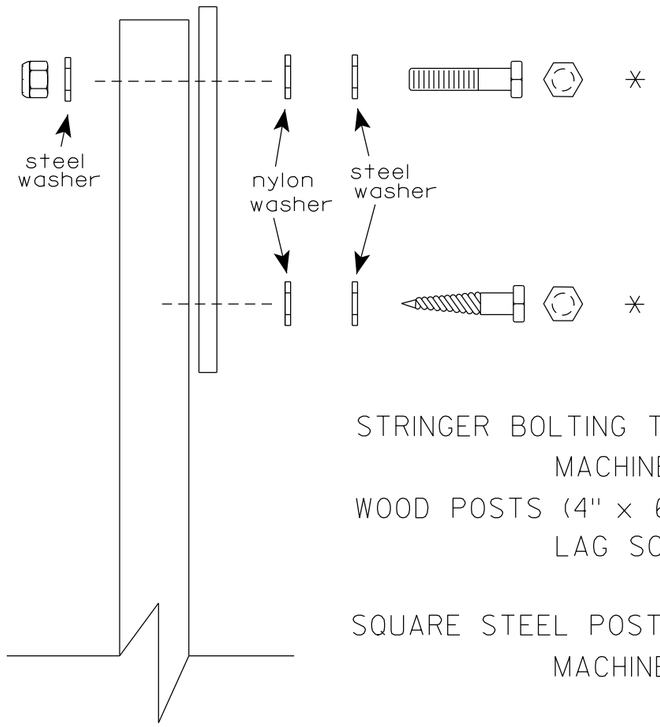
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
State Traffic Engineer

DATE 1/07/20 PLATE NO. A4-7A.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 181	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 6")

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

SQUARE STEEL POSTS (2" x 2")

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

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

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

ATTACHMENT OF SIGNS TO POSTS

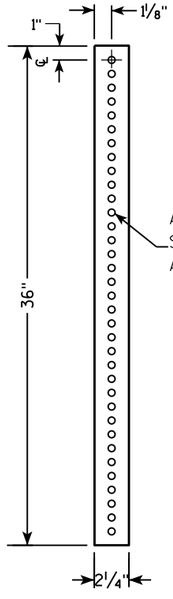
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

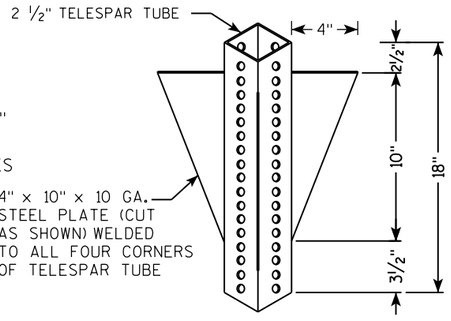
DATE 4/1/2020 PLATE NO. A4-8.9

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

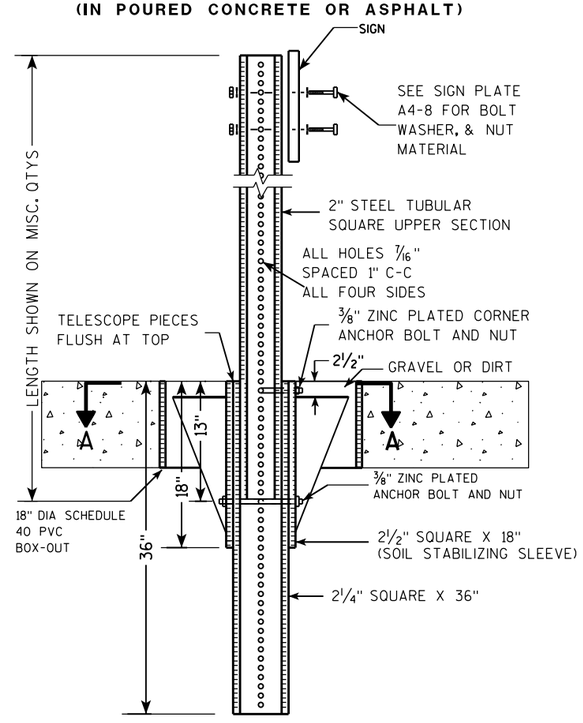
2 ¼ " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



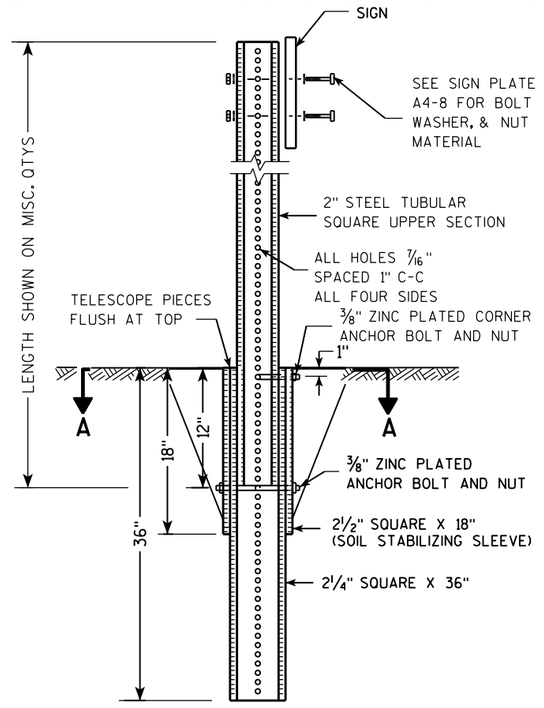
2 ½ " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

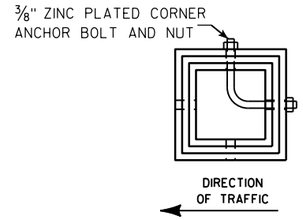


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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

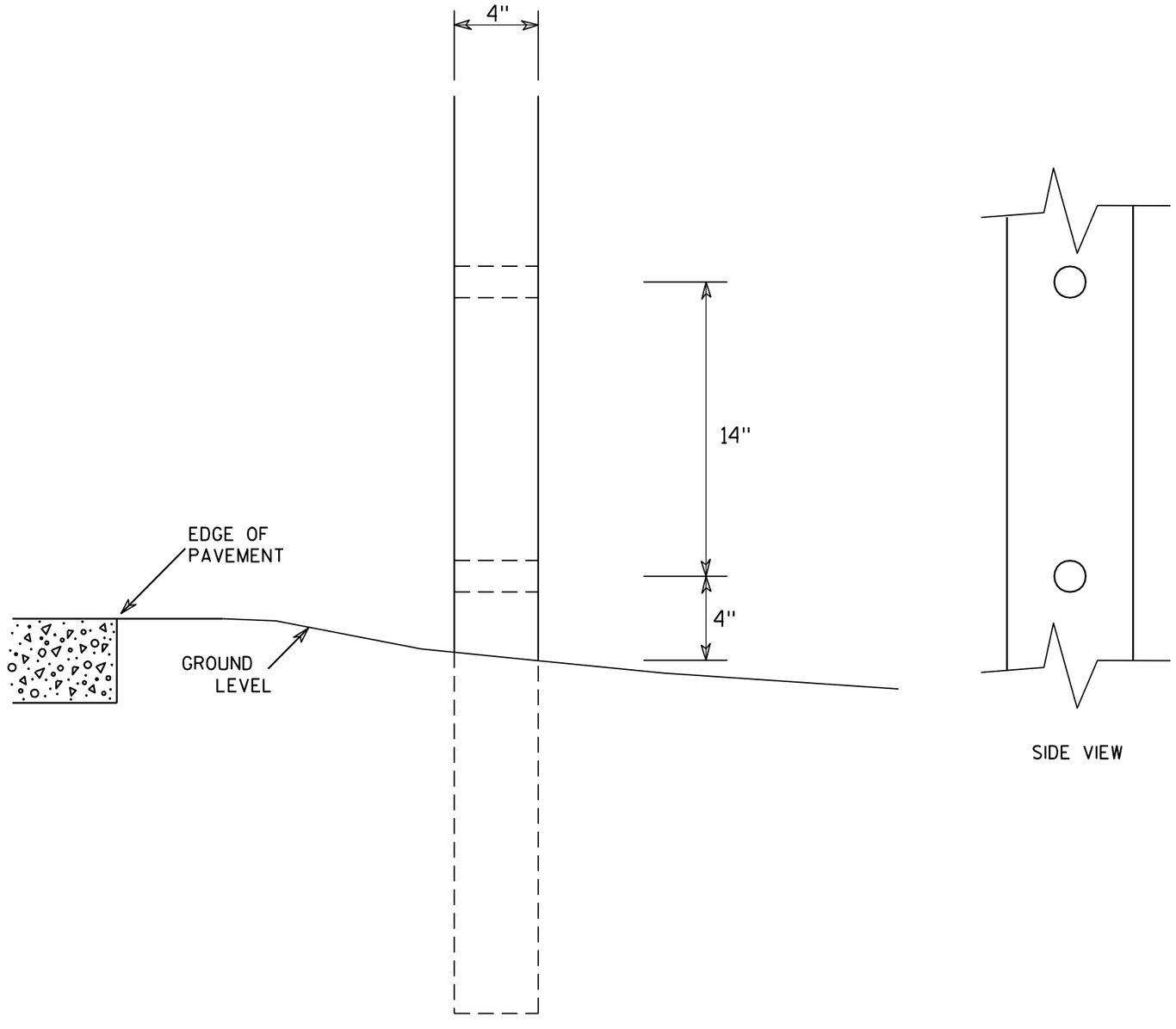
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 183 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

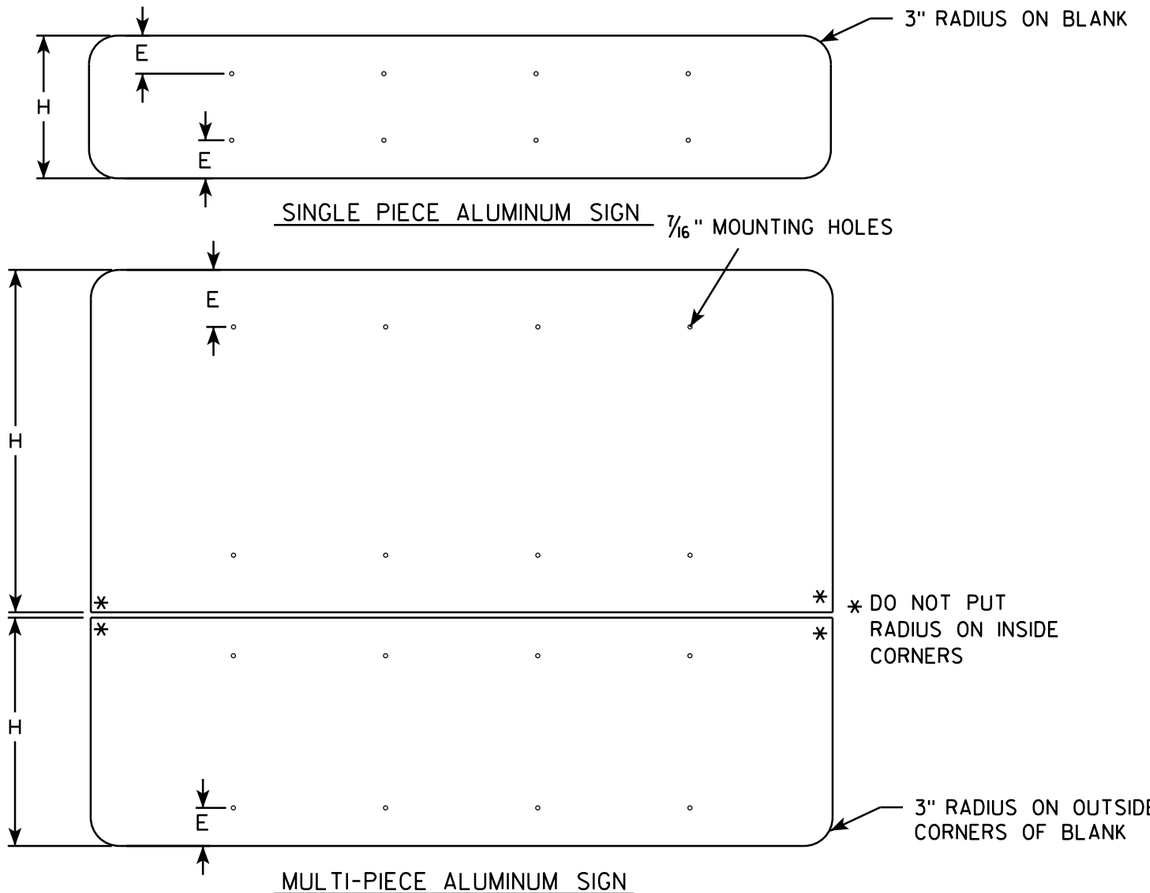
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang
for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

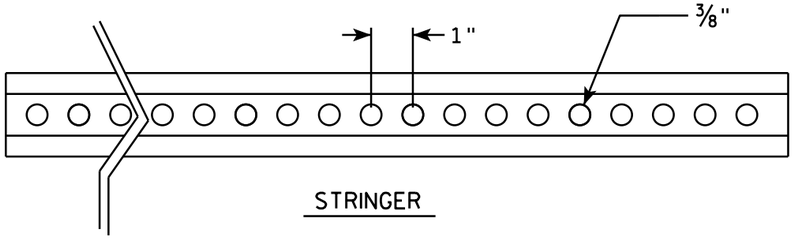
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 184	E



GENERAL NOTES

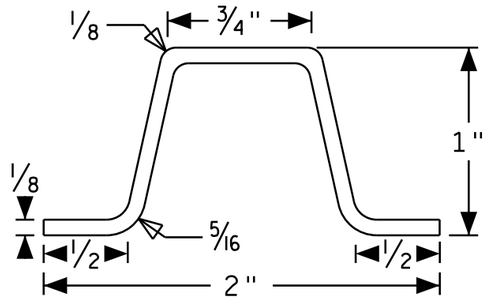
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 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"

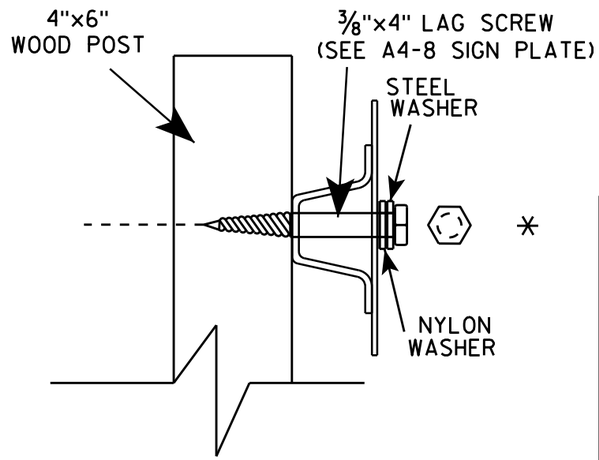


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

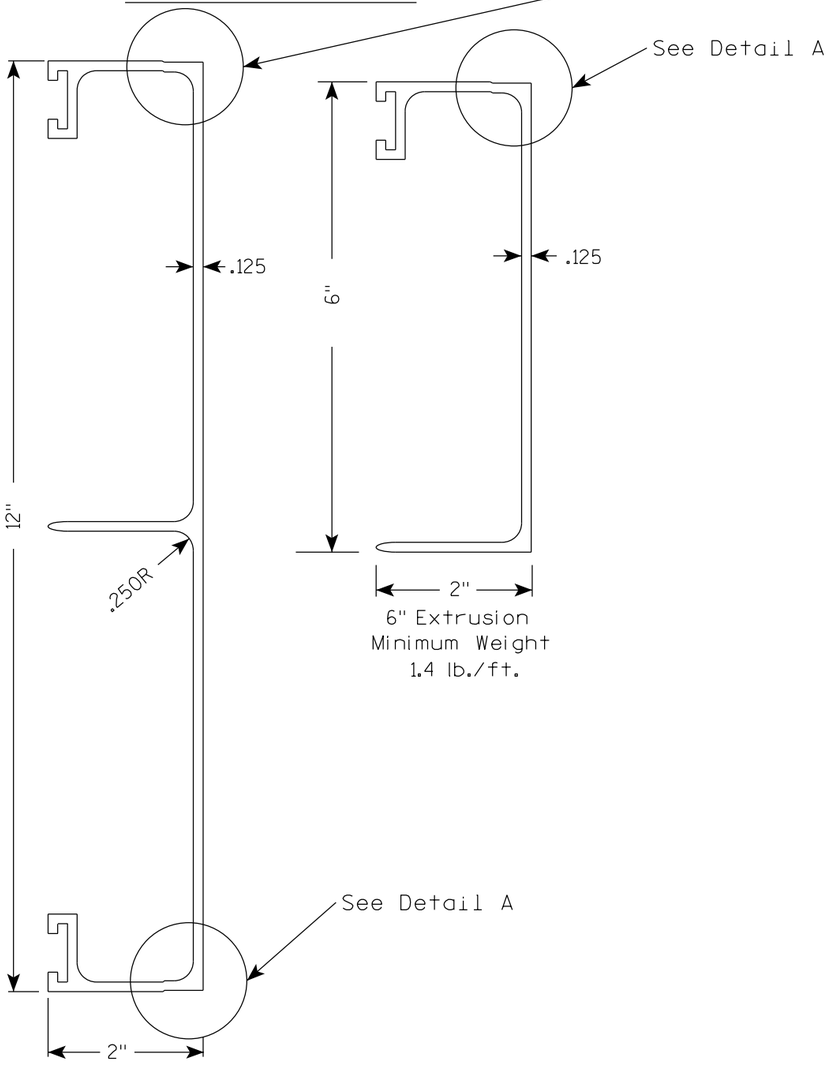
for State Traffic Engineer

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

Extruded Shape

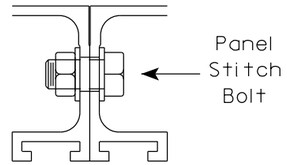


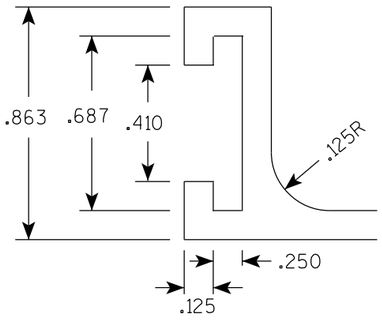
Hardware

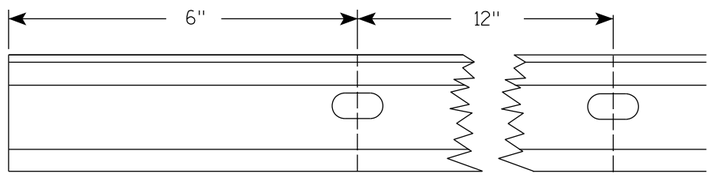
STITCH BOLT, WASHER & NUT

The hardware includes:

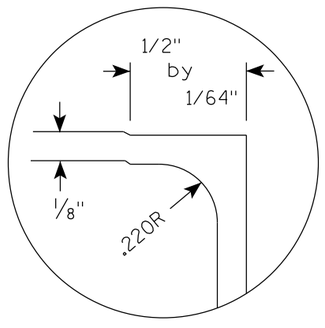
3/8 " - 16 X 3/4 " Economy Bolt 2024-T4 alloy
3/8 " - Stainless steel stop nut
3/8" X .064 Flat Washers, Alclad 2024-T4 alloy







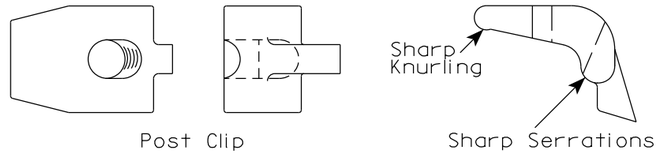
Punch 7/16" x 7/8" oval holes beginning 6" in from end of extrusion 12" CC on both edges of 6" and 12" panels.

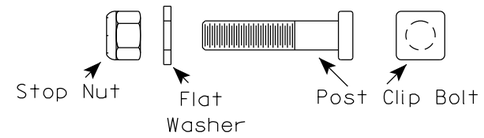


DETAIL A (EDGE WRAP JOINT)

POST CLIP, POST CLIP BOLT, WASHER & NUT

Post Clip shall be Alum. Alloy 356-T6
Post Clip Bolt shall be Stainless Steel.
Flat washer shall be 3/8" X .091, Stainless Steel.
Stop nut shall be stainless steel.





NOTES

1. The contractor may select any brand of extrusion that conforms to the illustrations or meets with the approval of the engineer, but all extrusions used on this contract shall be of the same brand.
2. Panel Stitch Bolts shall be used to assemble adjacent panels. Maximum stitch bolt spacing shall be 24" C-C, and a minimum of 4 bolts shall be used to connect any two extrusions.
3. Post Clips shall be used to attach the sign panel to the sign support.
4. Edge wrapping of sign sheeting required on all extrusions joints shown in Detail A.

ALUMINUM EXTRUSIONS FOR TYPE I SIGNS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

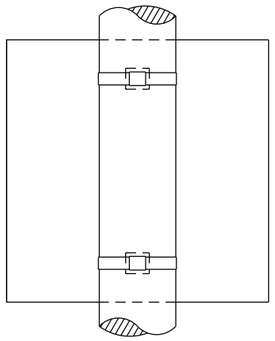
DATE 1/07/20 PLATE NO. A5-2.10

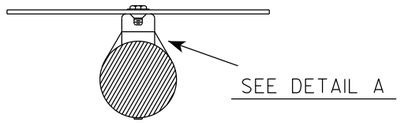
PROJECT NO:

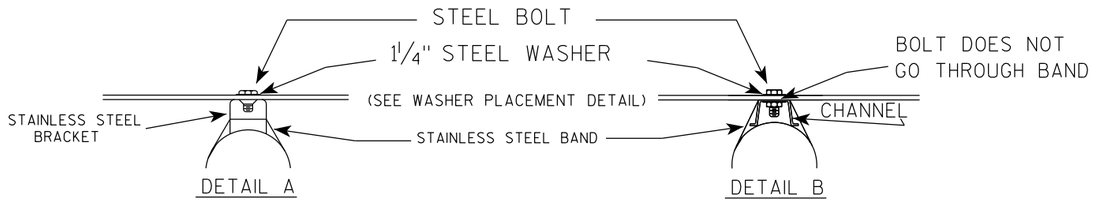
SHEET NO: 186 E

BANDING

SINGLE SIGN



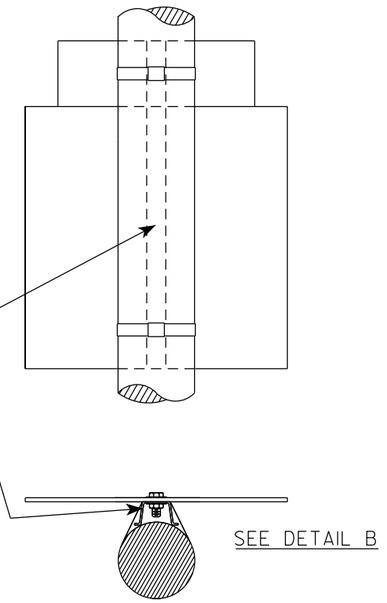




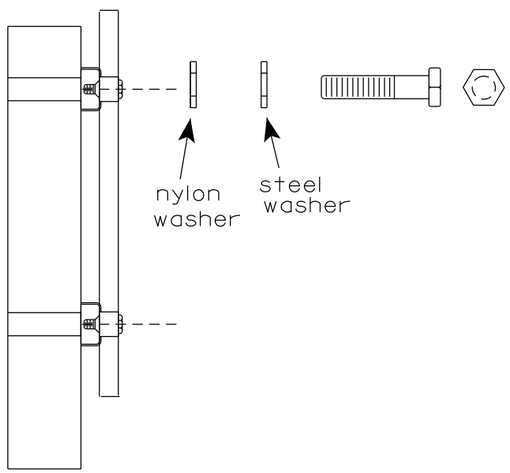
GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X ⅜" I.D. X 1/16" STEEL
1-1/4" O.D. X ⅜" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

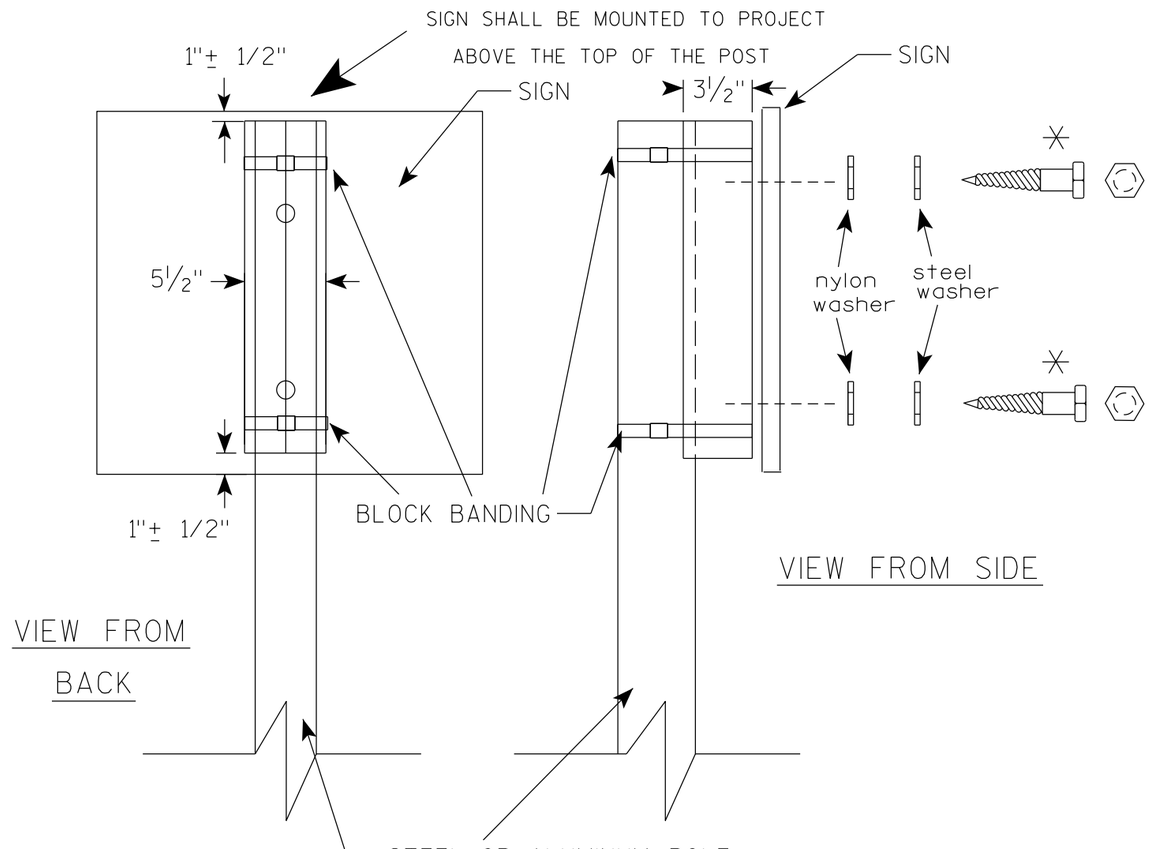
DATE 6/10/19 PLATE NO. A5-9.4

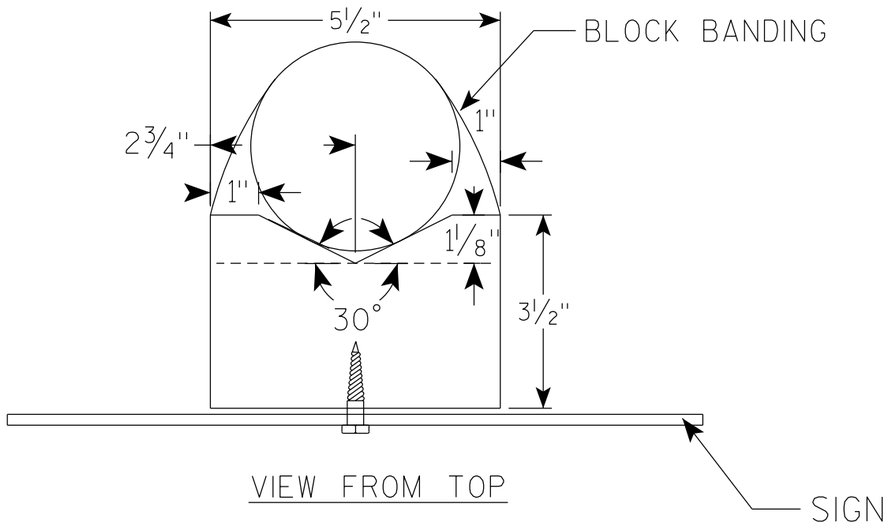
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 187	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

7





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

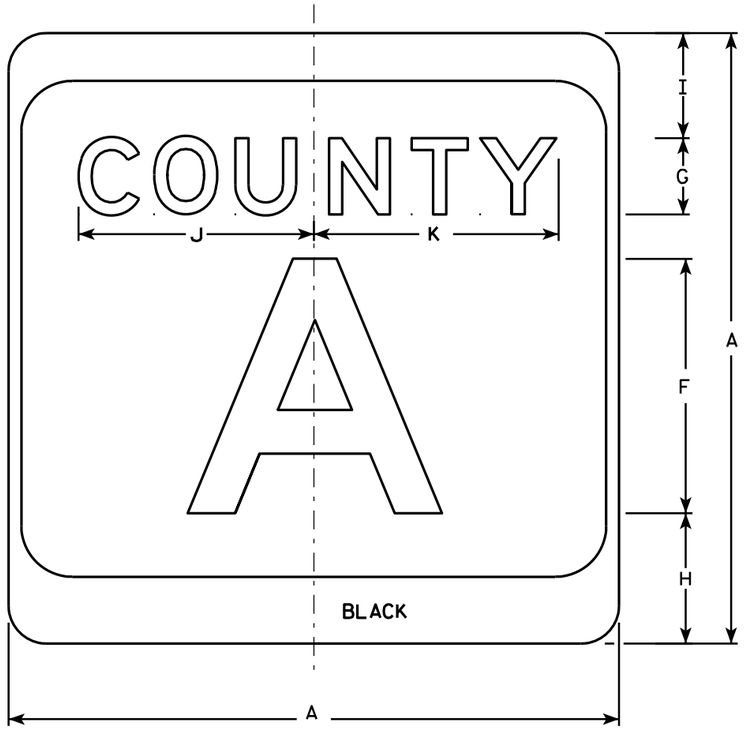
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

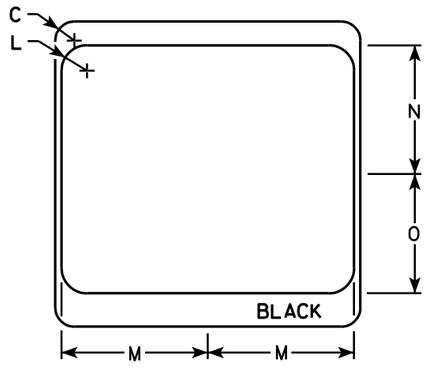
DATE 4/19/2022 PLATE NO. A5-10.3

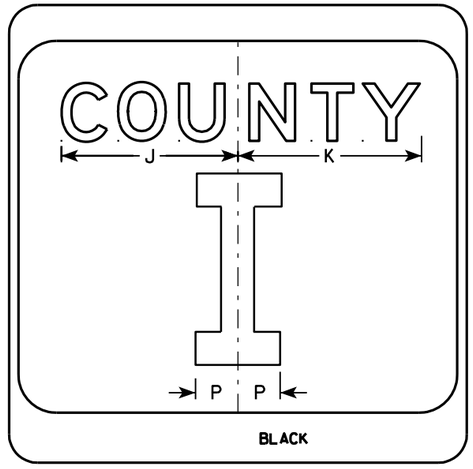
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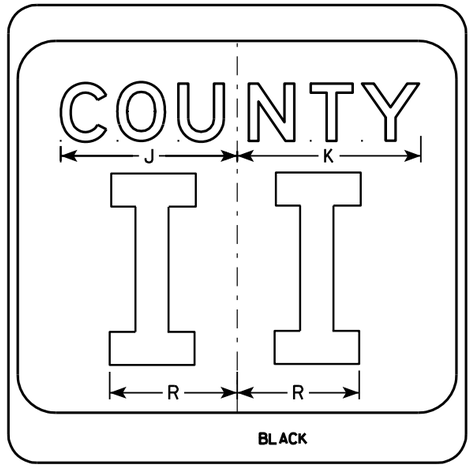
SHEET NO: 188 E



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

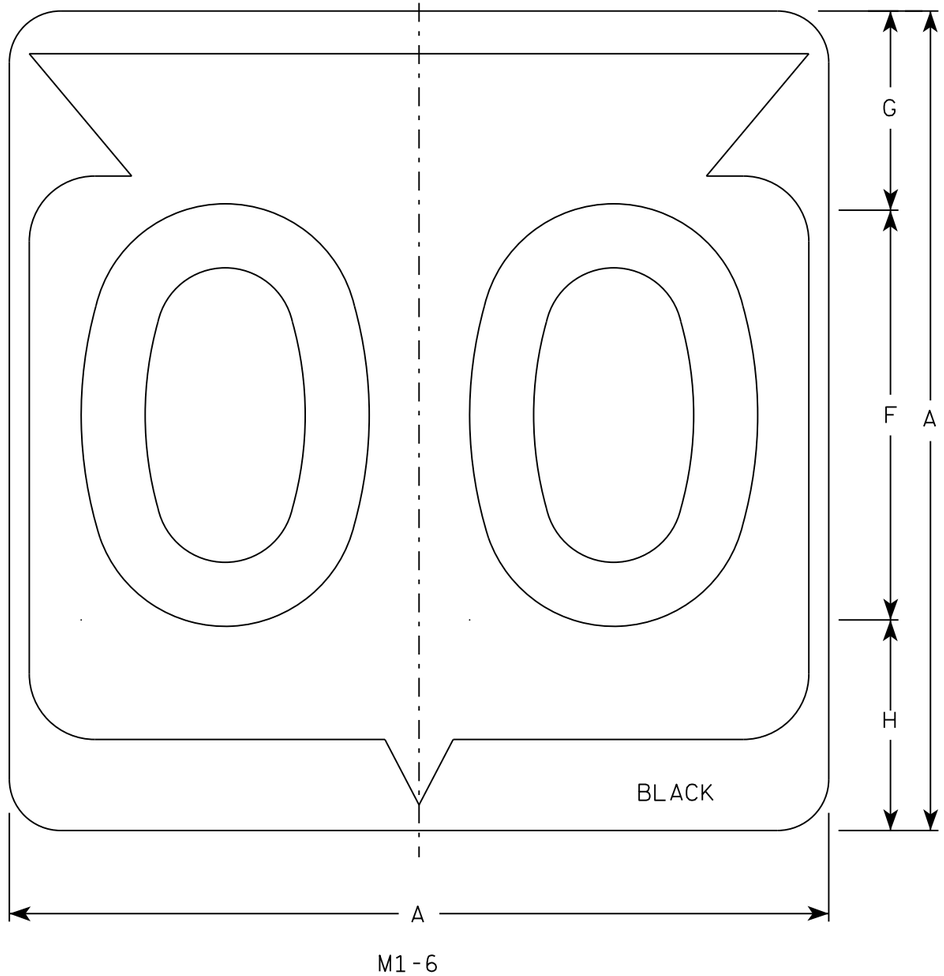
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

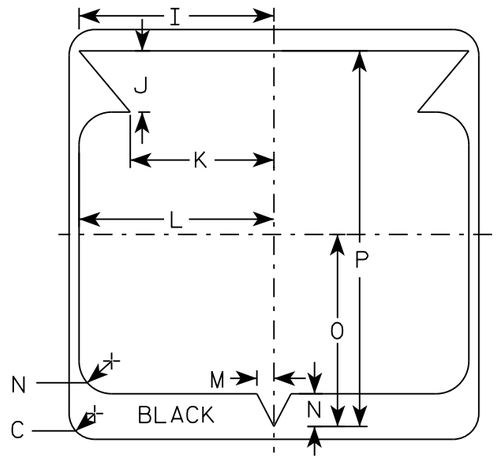
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 189 | E



M1-6

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs 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.



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			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
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
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
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

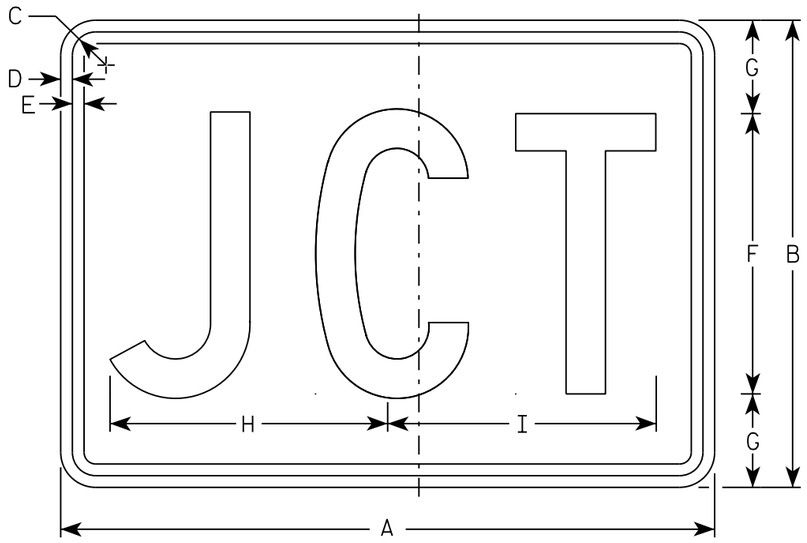
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

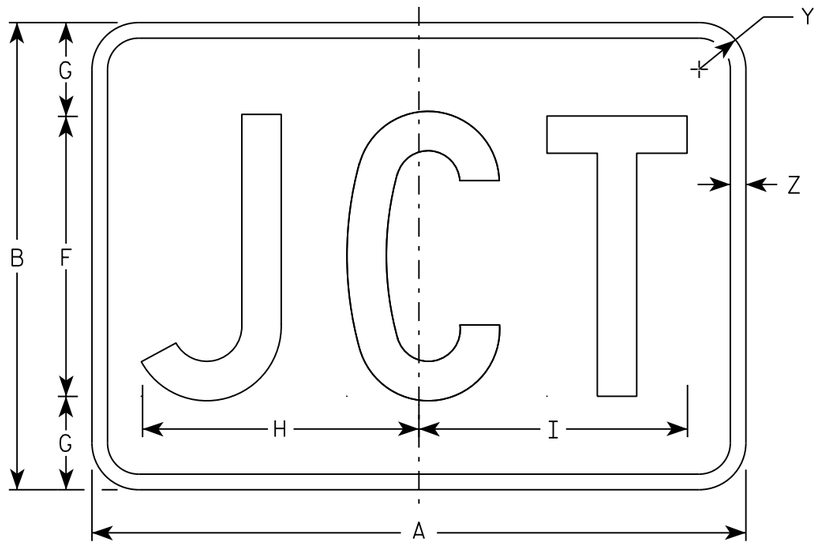
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-6.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 190 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

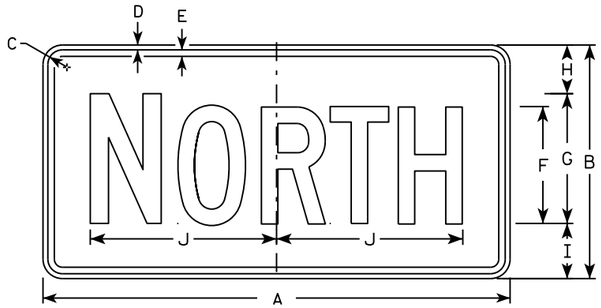
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

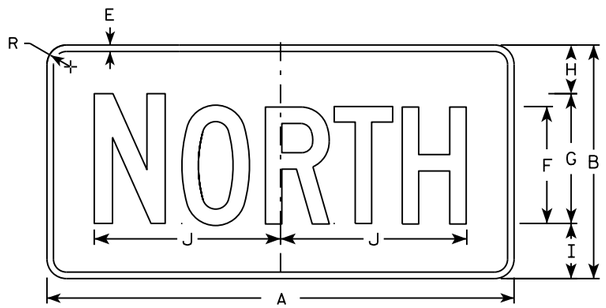
DATE 10/15/15 PLATE 191 12-1.12

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



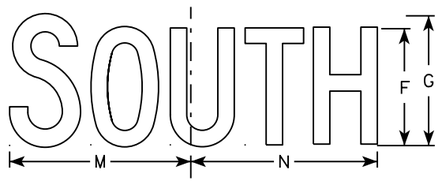
MB3-1
MK3-1
MN3-1



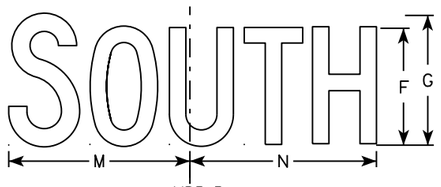
M3-2
MM3-2
MP3-2



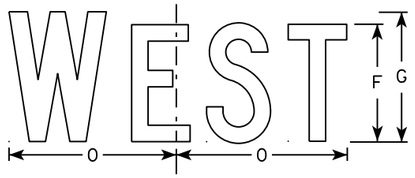
MB3-2
MK3-2
MN3-2



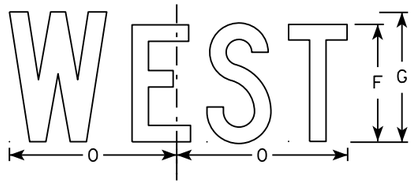
M3-3
MM3-3
MP3-3



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

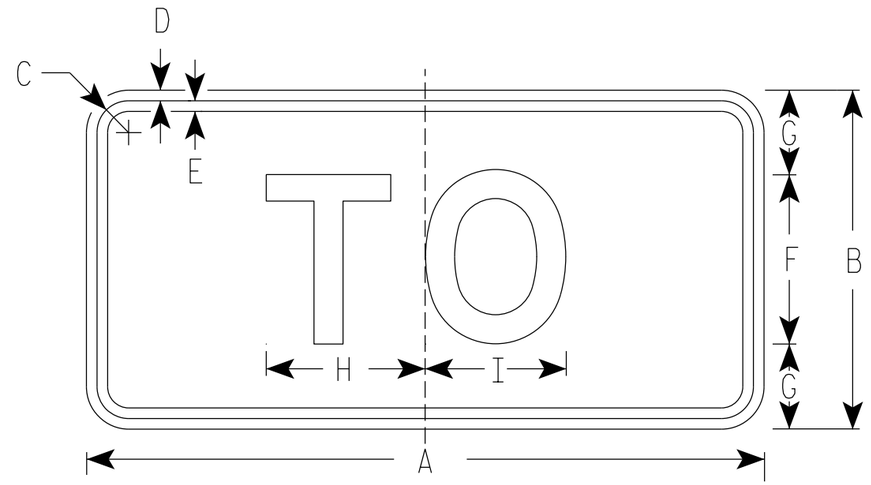
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

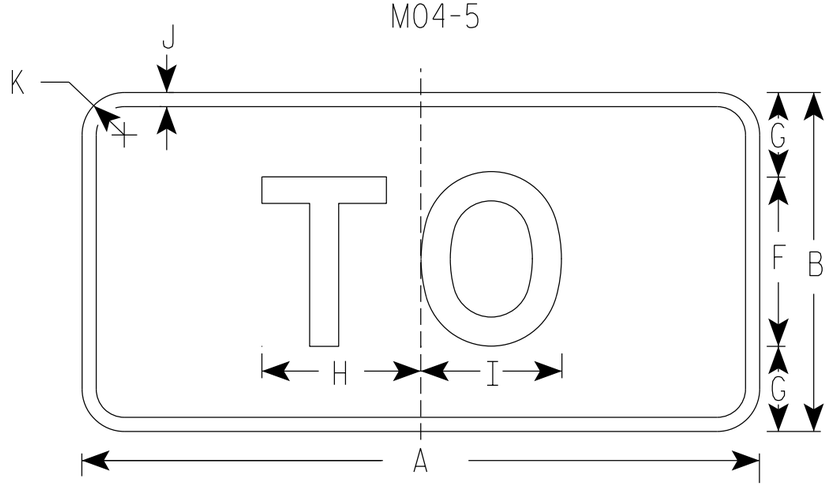
DATE 10/15/15 PLATE NO M3-1.14

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



M4-5
MM4-5
MP4-5
M04-5



MB4-5
MK4-5
MN4-5

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See note 5
   Message - See note 5
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. M4-5 Background - White
   Message - Black

   MB4-5 Background - Blue
   Message - White

   MK4-5 Background - Green
   Message - White

   MM4-5 Background - White
   Message - Green

   MN4-5 Background - Brown
   Message - White

   MP4-5 Background - White
   Message - Blue

   M04-5 Background - Orange Type F Reflective
   Message - Black

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	5 3/8	5 1/4	1/2	1 1/2																2.00
3	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
4	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
5	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5

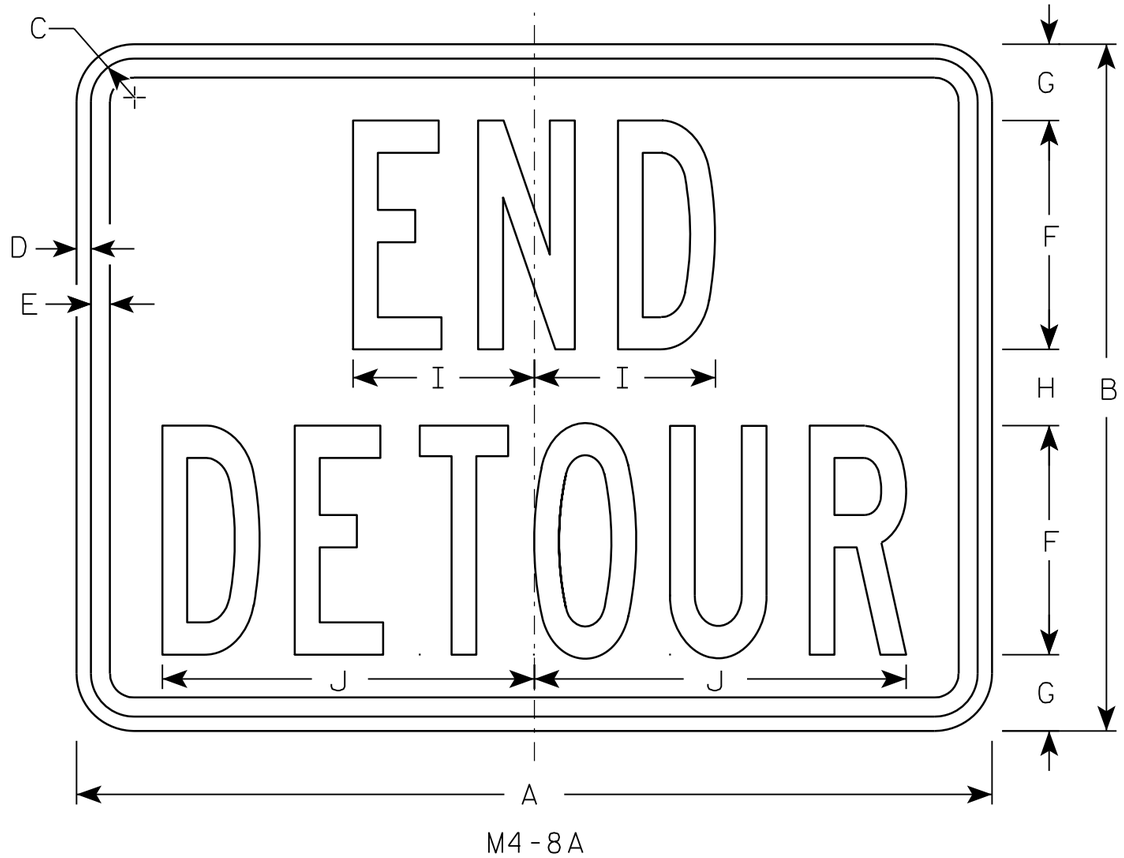
STANDARD SIGN
M4-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/7/19 PLATE NO. M4-5.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 193 | E



M4-8A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5																											

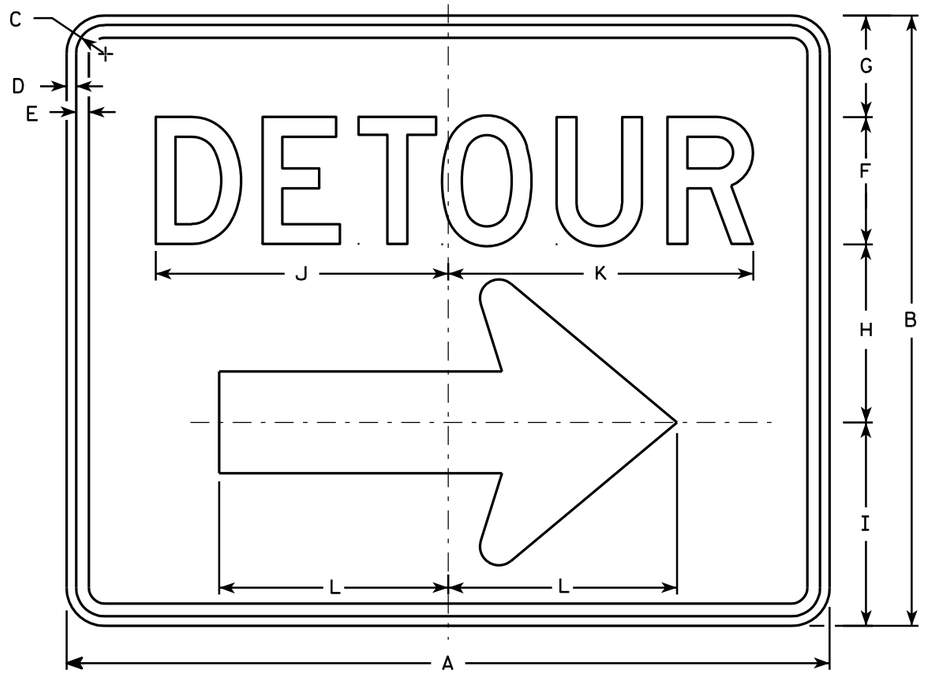
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

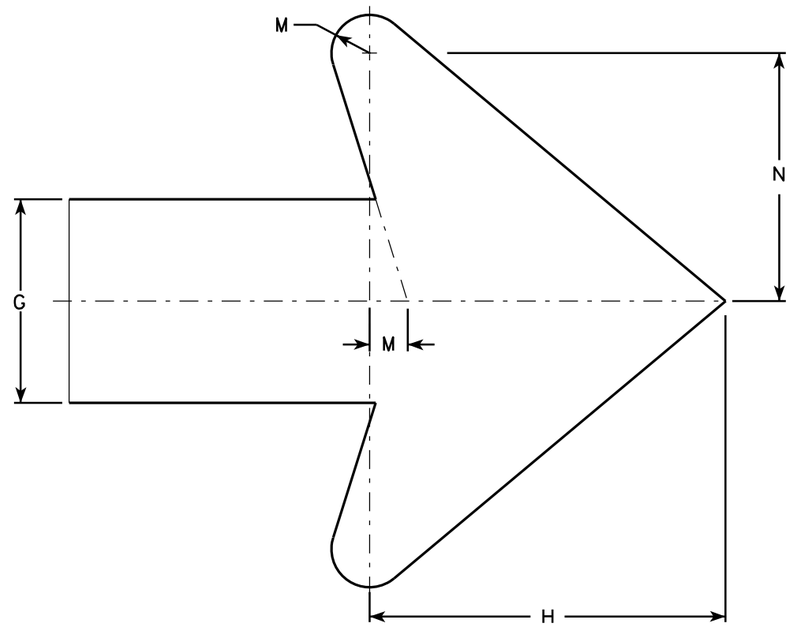
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 194	E



M4-9R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-9L is the same as M4-9R except the arrow is reversed.



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

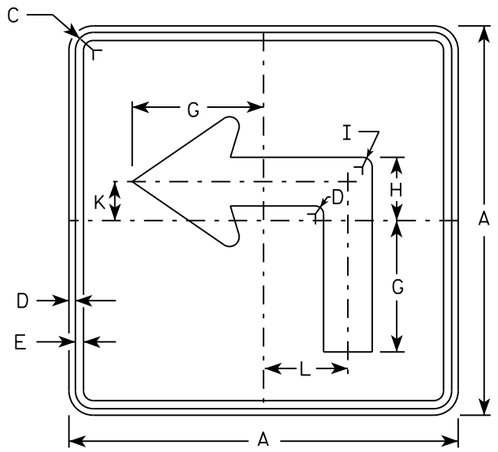
STANDARD SIGN
M4-9 R & L

WISCONSIN DEPT OF TRANSPORTATION

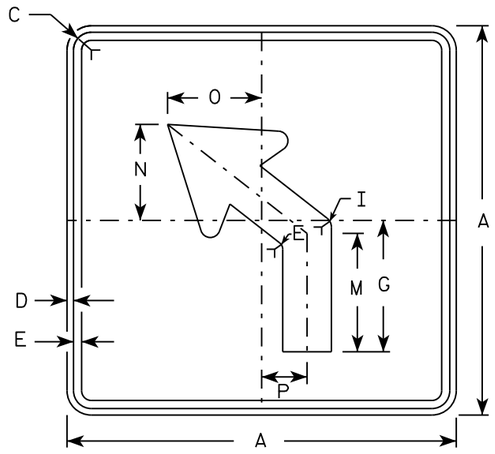
APPROVED Matthew R Rauch
for State Traffic Engineer

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

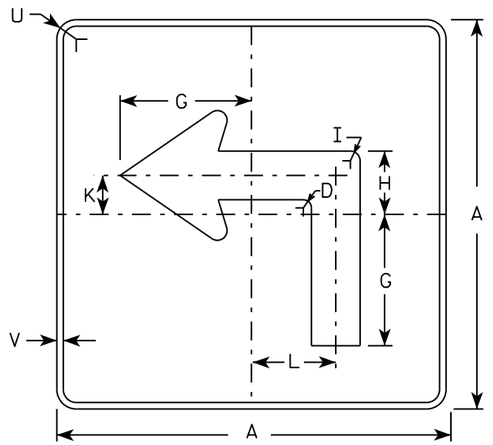
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 195 | E



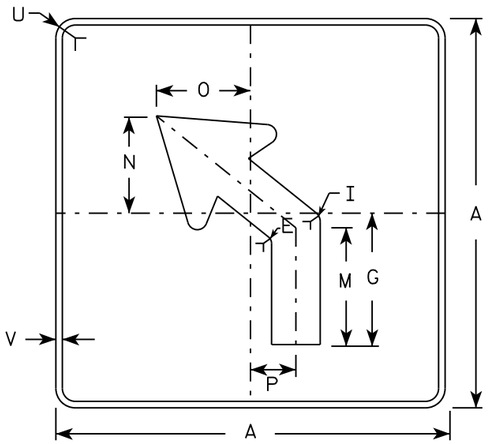
M5-1L
MM5-1L
MO5-1L
MP5-1L



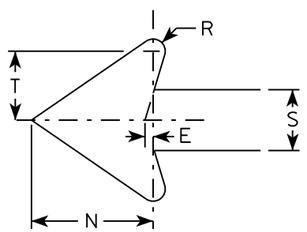
M5-2L
MM5-2L
MO5-2L
MP5-2L



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

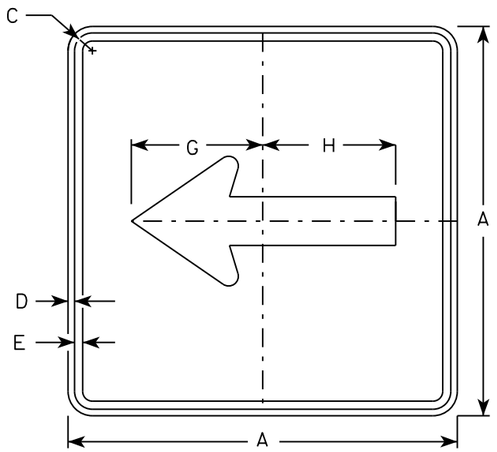
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

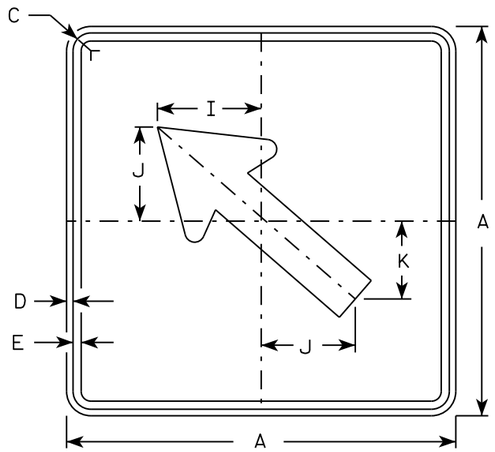
DATE 10/15/15 PLATE NO. M5-1.13

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



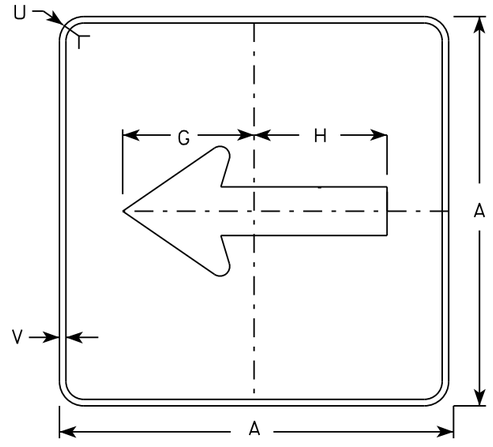
M6-1
MM6-1
MO6-1
MP6-1



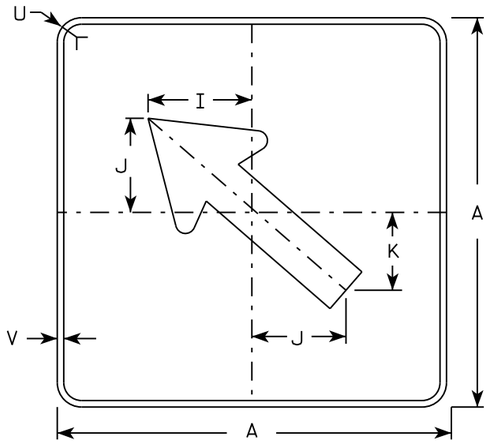
M6-2
MM6-2
MO6-2
MP6-2

NOTES

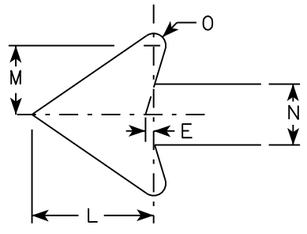
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - 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

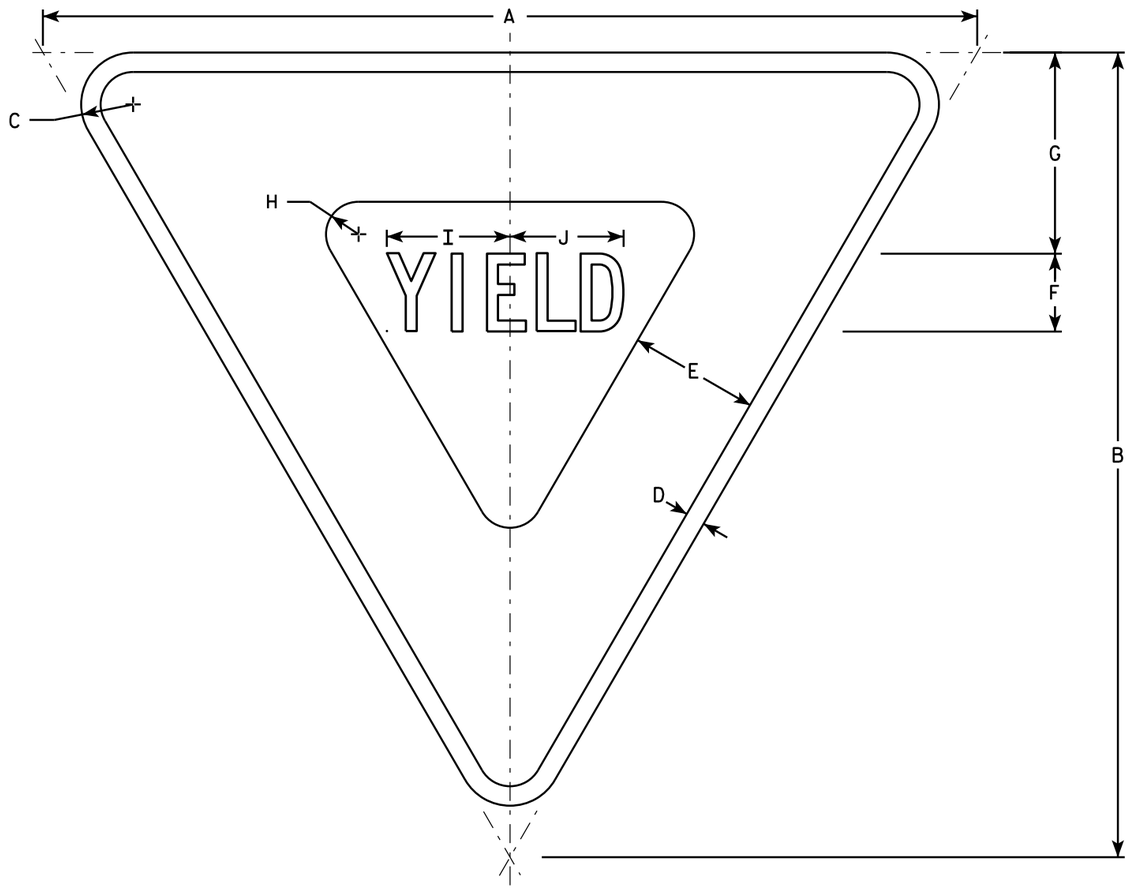
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 197 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



R1-2

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 - 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. The border strip and word message are reflectorized red.

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	26	1 1/2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71
2S	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83
6																											
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 7/8	5/8	2 3/8	2 1/4																	0.97

STANDARD SIGN
R1-2

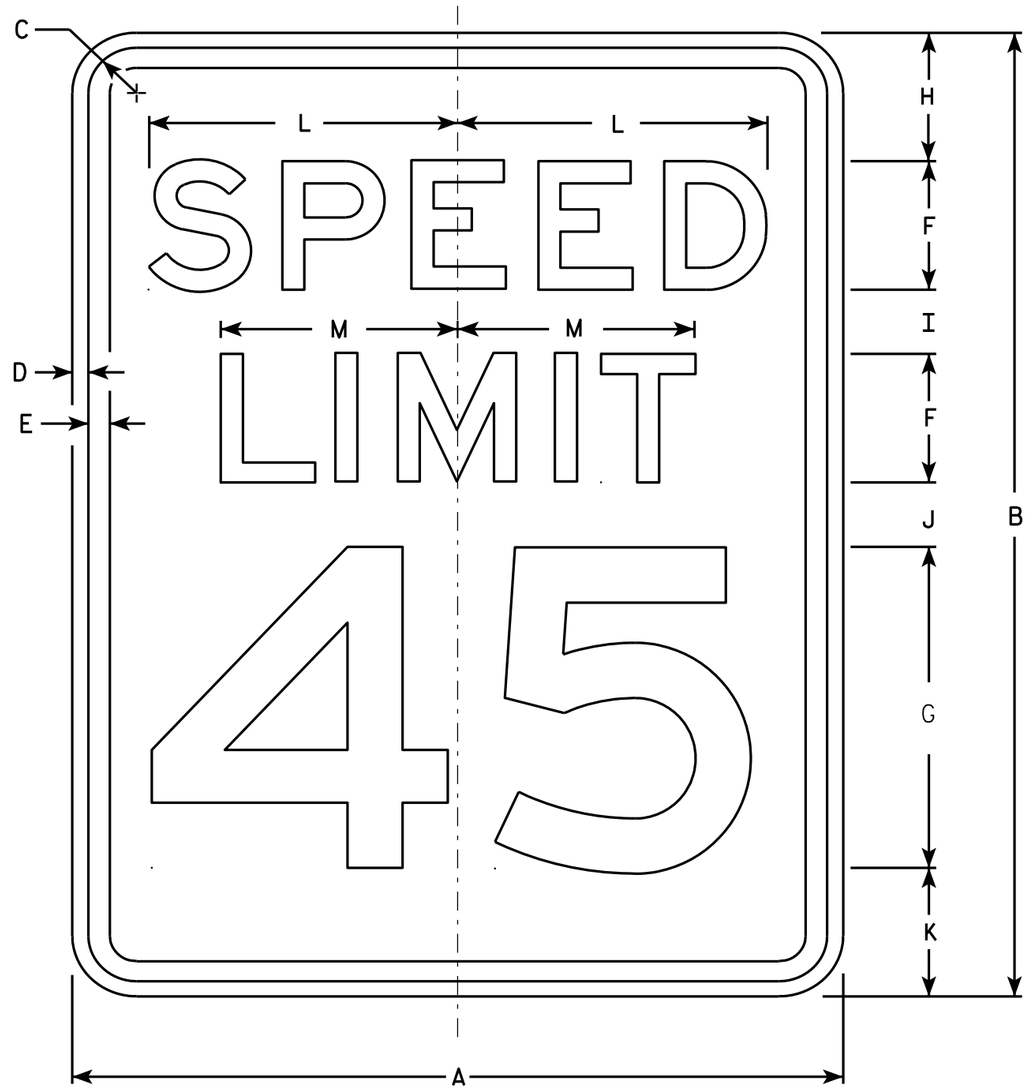
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/13/14 PLATE R1-2.12

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R12.DGN PLOT DATE : 13-OCT-2014 15:12 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.837526:1.000000
WISDOT/CADDS SHEET 42



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

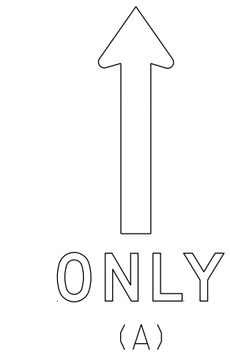
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

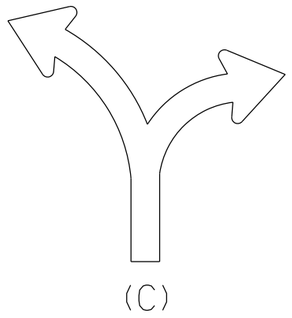
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 199	E

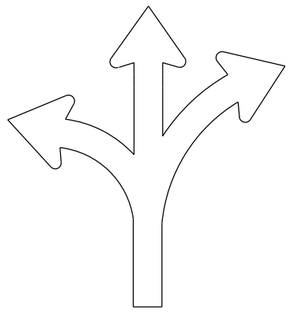


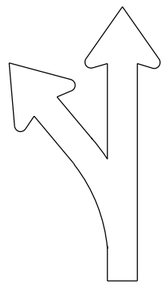
(A)

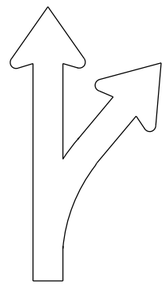


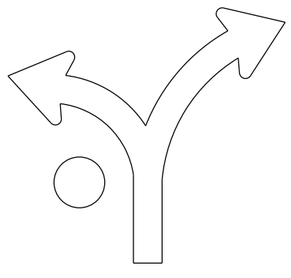
(B)

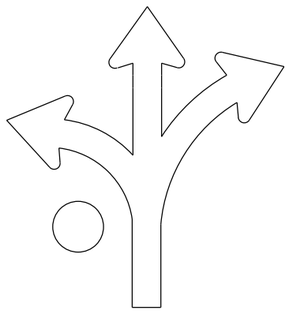

(C)

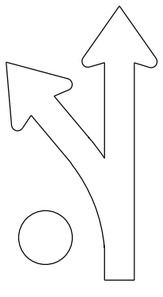

(D)

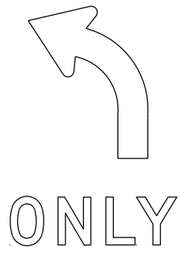

(E)


(F)

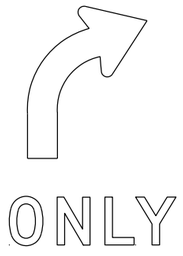

(G)


(H)

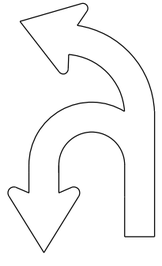

(I)



(L)



(R)


(U)

NOTES

1. Sigs are Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Use appropriate Letter for Sign Code
   Each letter added makes sign wider. Example R3-8EAR
5. Square footage of sign varies by letters

1 Letter =	3.75 sq ft	for Size 2
	6.0 sq ft	for Size 3
	10.0 sq ft	for Size 4 or 5
2 Letters =	7.5 sq ft	for Size 2
	12.0 sq ft	for Size 3
	20.0 sq ft	for Size 4 or 5
3 Letters =	11.25 sq ft	for Size 2
	18.0 sq ft	for Size 3
	30.0 sq ft	for Size 4 or 5
4 Letters =	15.0 sq ft	for Size 2
	24.0 sq ft	for Size 3
	40.0 sq ft	for Size 4 or 5
5 Letters =	18.75 sq ft	for Size 2
	30.0 sq ft	for Size 3
	50.0 sq ft	for Size 4 or 5
6 Letters =	22.5 sq ft	for Size 2
	36.0 sq ft	for Size 3
	60.0 sq ft	for Size 4 or 5

6. When letters C,D,G,H are used on the Left or Right end of the sign the Sq. Ft. changes.
   Add the amounts when these letters are used:
   1.25 sq ft for Size 2
   1.5 sq ft for Size 3
   2.0 sq ft for Size 4 or 5

STANDARD SIGN
R3-8 Series

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

7

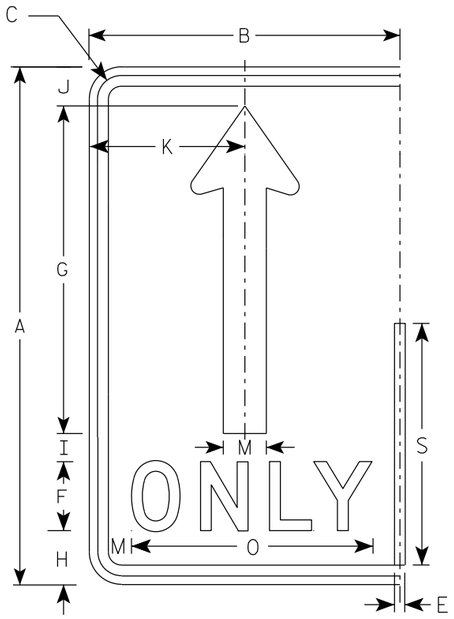
7

PROJECT NO:

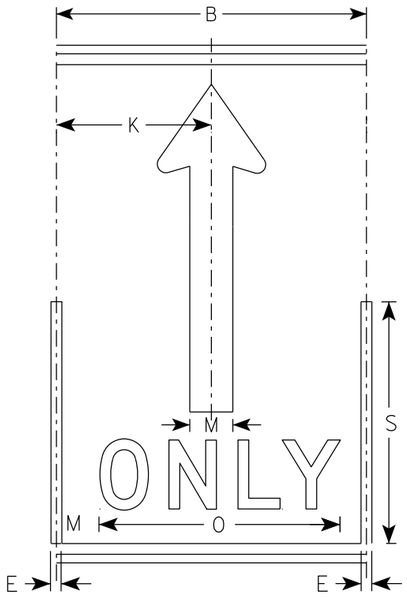
SHEET NO: 200 E

NOTES

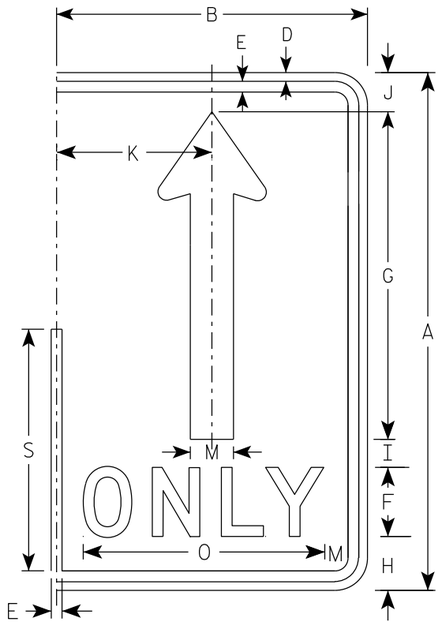
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



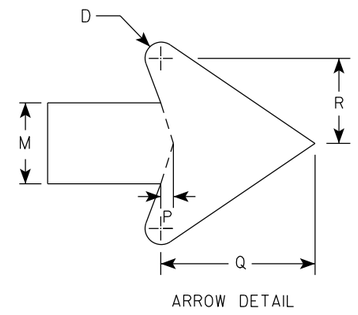
(A)



(A)



(A)



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	30	18	1 3/8	1/2	5/8	4	19	3 1/8	1 5/8	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8	4	19	3 1/8	1 5/8	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8	5	22 3/4	3 3/4	1 3/4	2 3/4	12		3		17 5/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 7/8	3 5/8	15		4		21 3/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 7/8	3 5/8	15		4		21 3/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (A) Arrow

WISCONSIN DEPT OF TRANSPORTATION

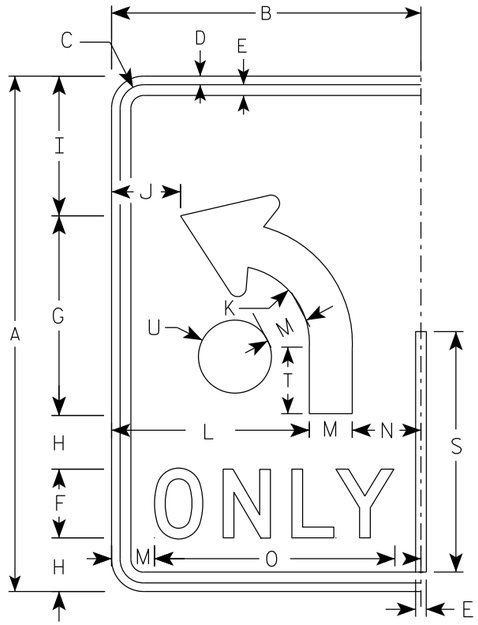
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

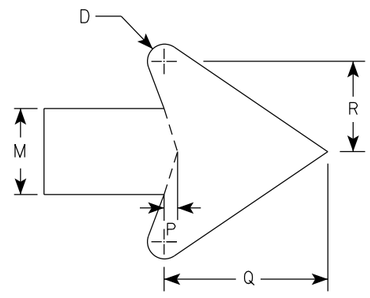
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 201 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
   Message Series - D



(B)



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	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8	2 1/8						3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8	2 1/8						3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8	2 1/2						6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0

STANDARD SIGN

R3-8 (B) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

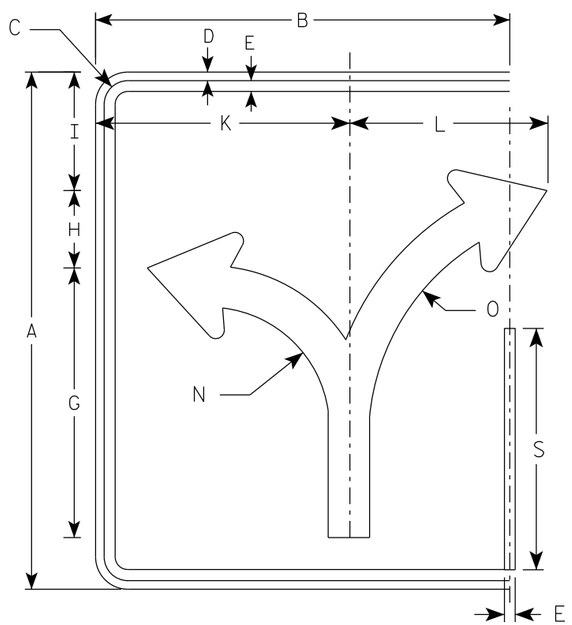
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

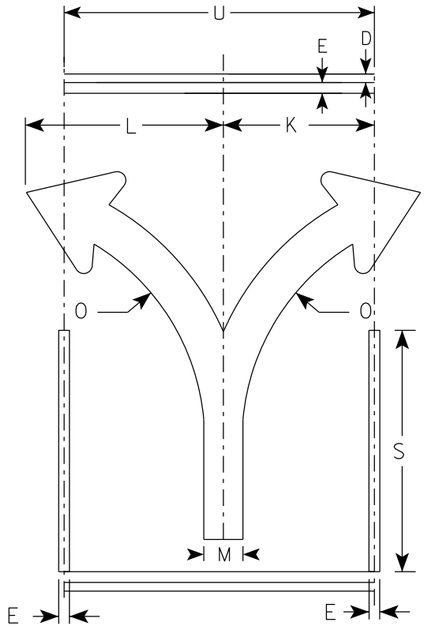
SHEET NO: 202 E

NOTES

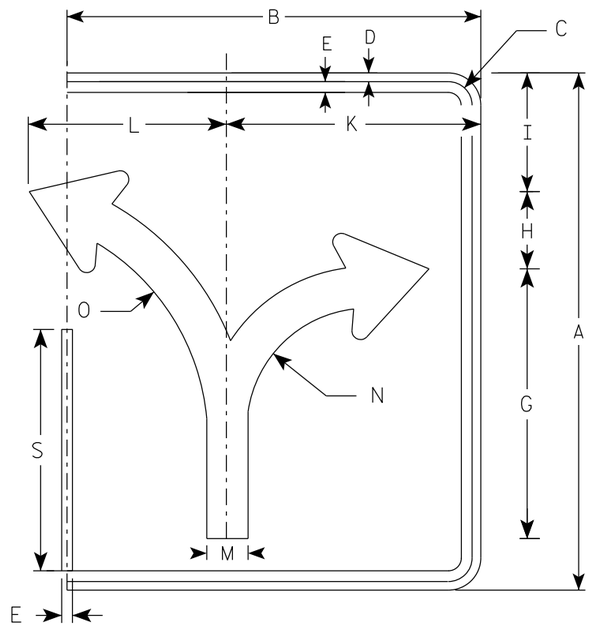
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



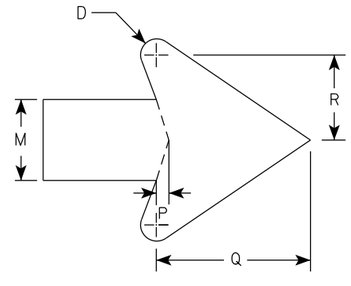
(C)



(C)



(C)



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	ENDS Area sq. ft.	MIDDLE Area sq. ft.
1																												
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

STANDARD SIGN
R3-8 (C) Arrow

WISCONSIN DEPT OF TRANSPORTATION

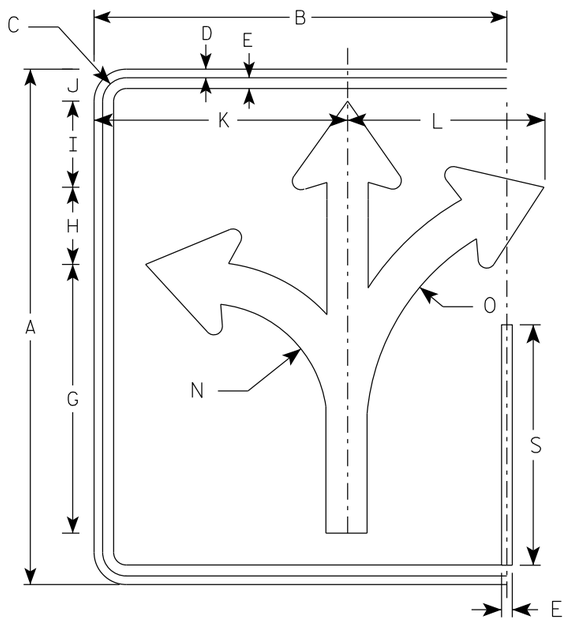
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

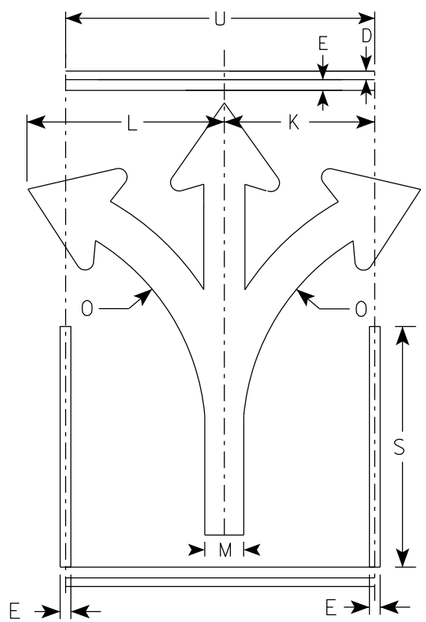
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 203 | E

NOTES

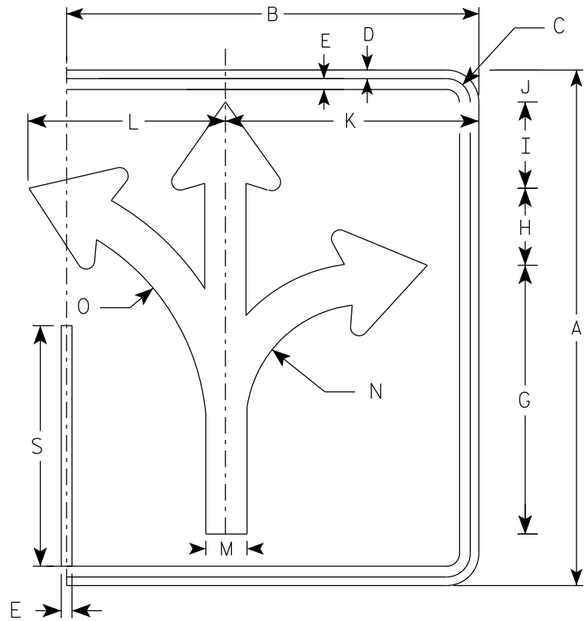
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



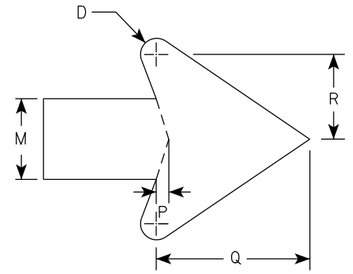
(D)



(D)



(D)



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	ENDS Area sq. ft.	MIDDLE Area sq. ft.
1																												
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	6	2 1/4	17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

STANDARD SIGN
R3-8 (D) Arrow

WISCONSIN DEPT OF TRANSPORTATION

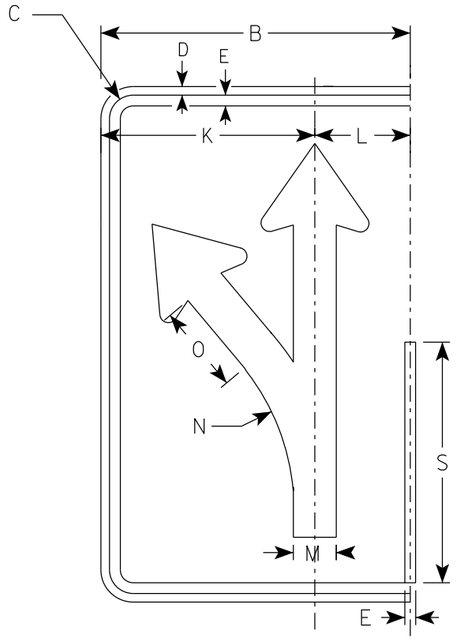
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

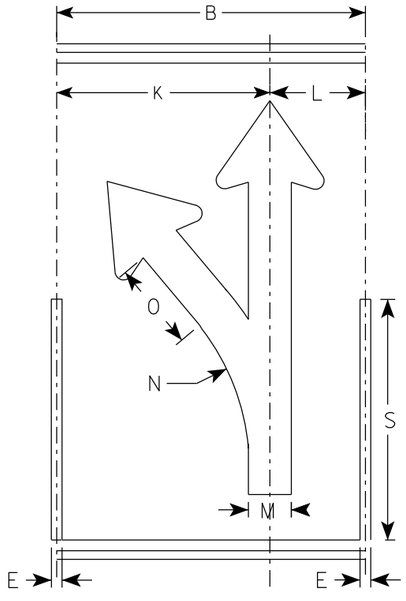
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 204 | E

NOTES

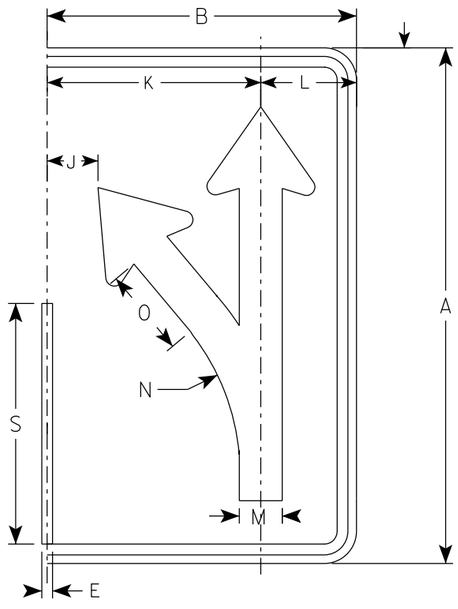
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



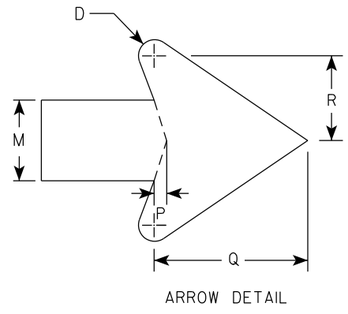
(E)



(E)



(E)



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	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (E) Arrow

WISCONSIN DEPT OF TRANSPORTATION

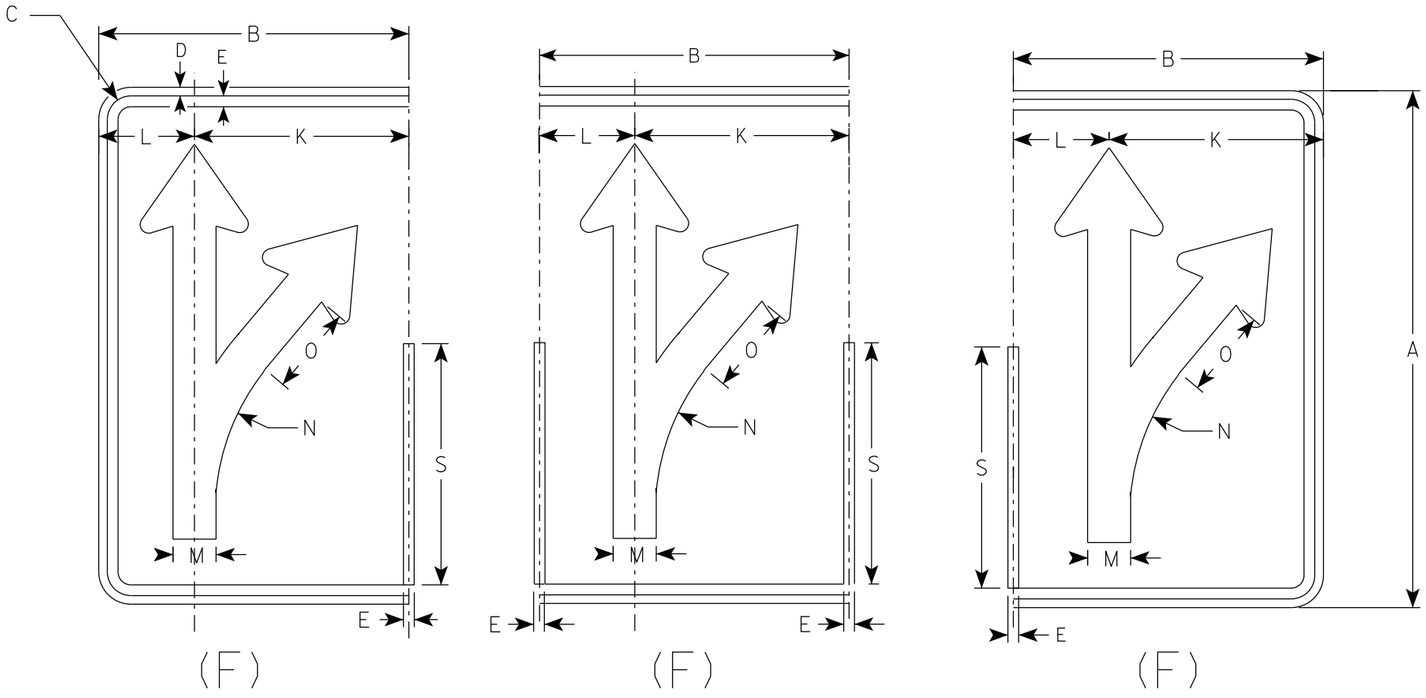
APPROVED Matthew R Rauch
For State Traffic Engineer

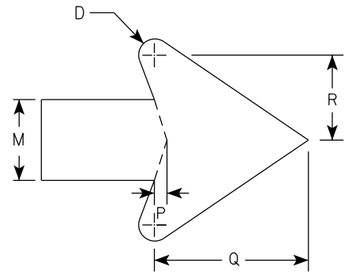
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 205 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None





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	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (F) Arrow

WISCONSIN DEPT OF TRANSPORTATION

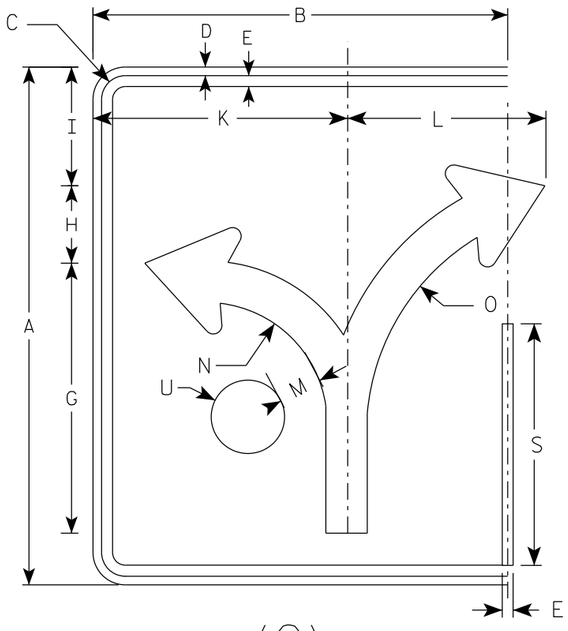
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

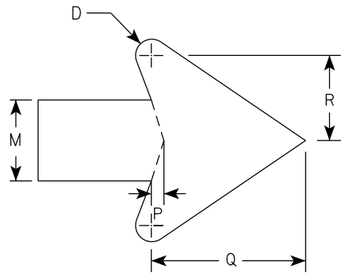
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 206 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(G)



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	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

STANDARD SIGN
R3-8 (G) Arrow

WISCONSIN DEPT OF TRANSPORTATION

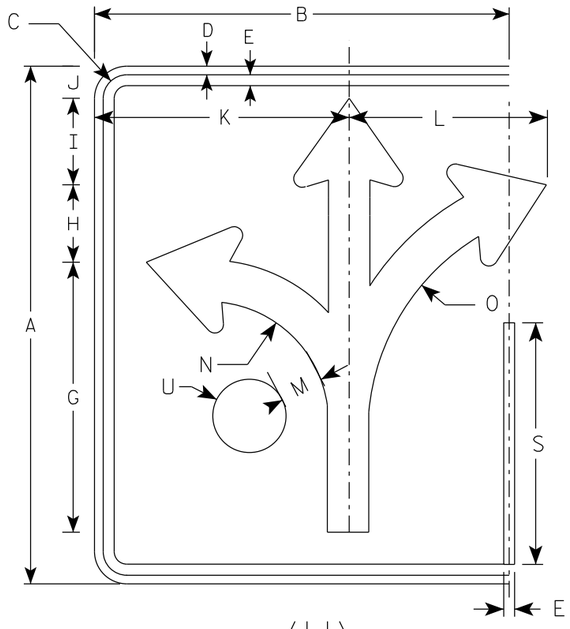
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

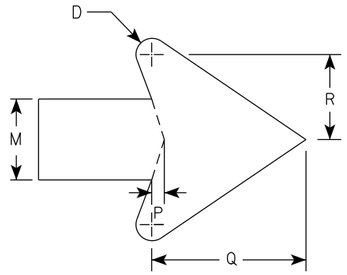
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 207 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(H)



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	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	6	3 1/8	17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

STANDARD SIGN
R3-8 (H) Arrow

WISCONSIN DEPT OF TRANSPORTATION

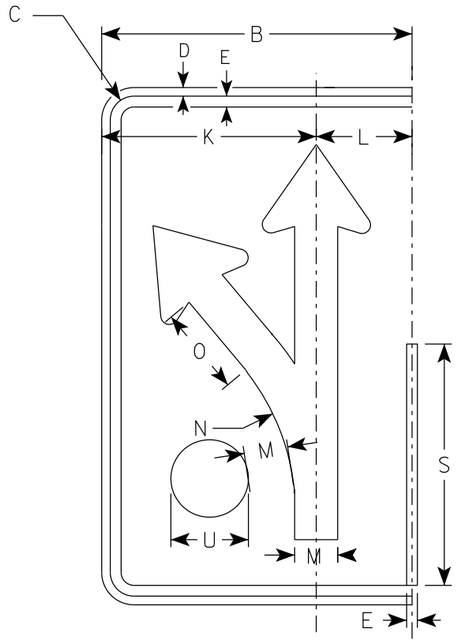
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

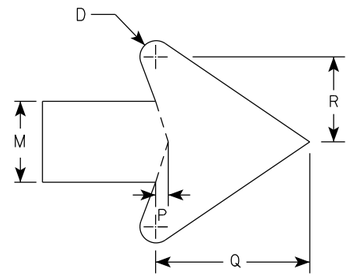
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 208	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(I)



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	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4		2 1/2						6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8		3 3/8						10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8		3 3/8						10.0

STANDARD SIGN
R3-8 (I) Arrow

WISCONSIN DEPT OF TRANSPORTATION

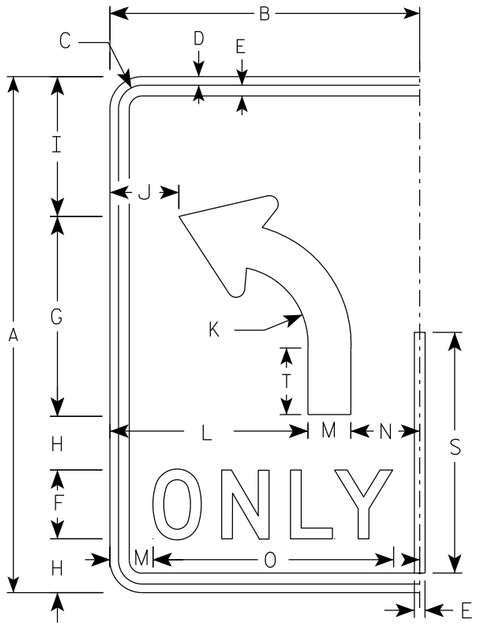
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

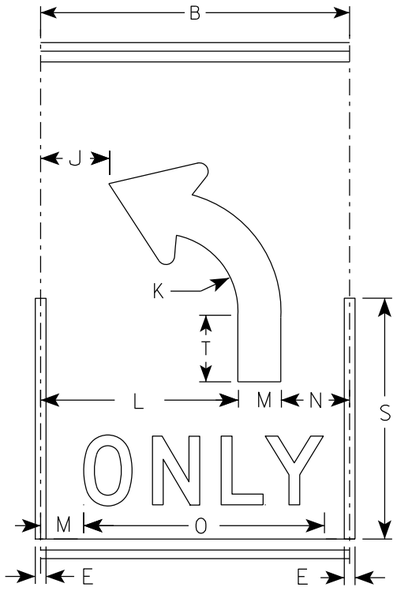
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 209 | E

NOTES

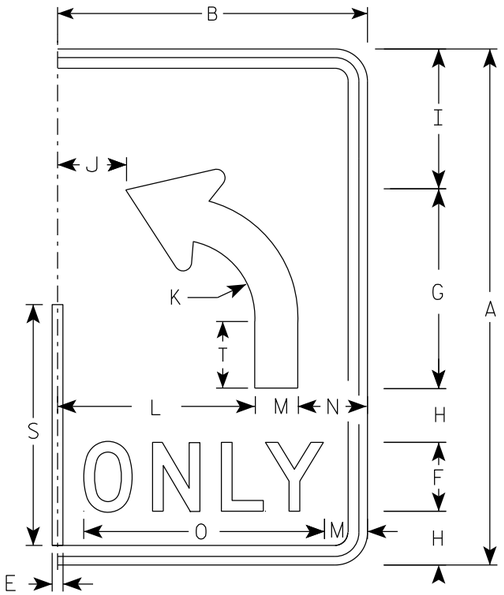
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



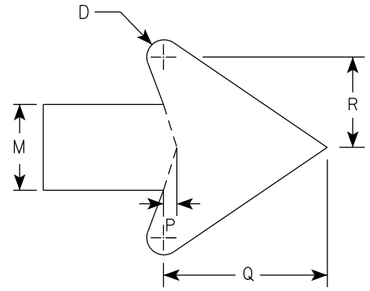
(L)



(L)



(L)



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	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4		5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0

STANDARD SIGN

R3-8 (L) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

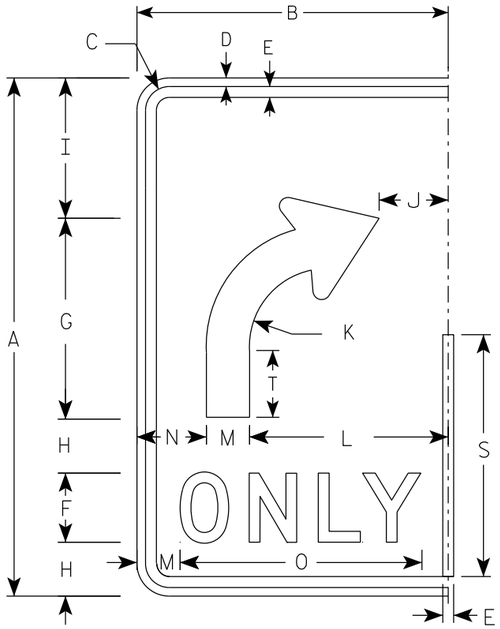
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

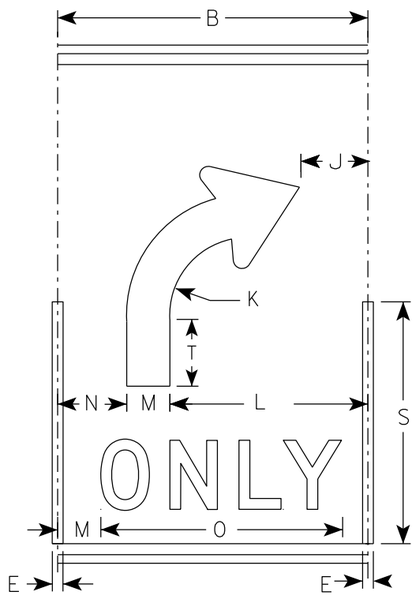
SHEET NO: 210 E

NOTES

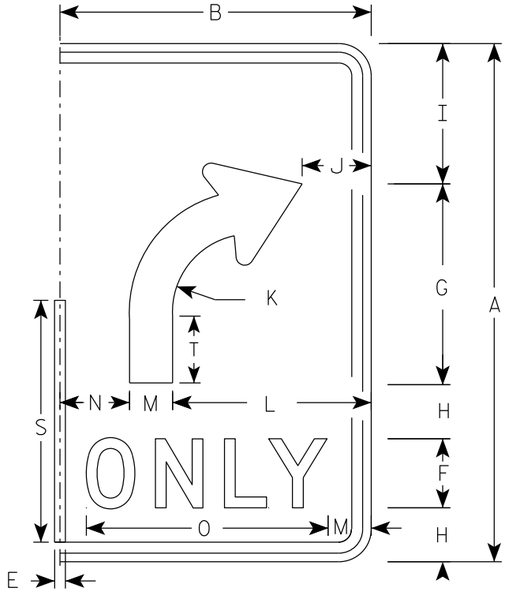
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



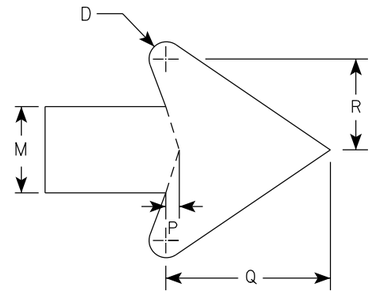
(R)



(R)



(R)



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	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0

STANDARD SIGN
R3-8 (R) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

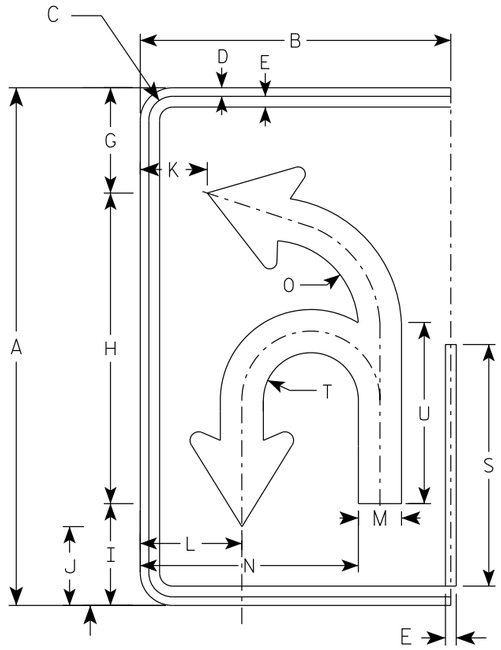
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

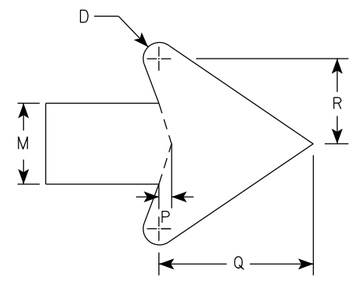
SHEET NO: 211 **E**

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(U)



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	30	18	1 3/8	1/2	5/8		6 1/8	18	5 7/8	4 5/8	3 7/8	5 7/8	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2 5/8	14	2 3/4	10 1/2						3.75
2M	30	18	1 3/8	1/2	5/8		6 1/8	18	5 7/8	4 5/8	3 7/8	5 7/8	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2 5/8	14	2 3/4	10 1/2						3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	21 5/8	7 1/8	5 1/2	5 7/8	8 1/4	3	16 3/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4	3 1/4	12 5/8						6.0
4	48	30	2 1/4	3/4	1		29 1/8	28 3/4	9 3/8	7 1/4	6 7/8	10	4	20 7/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 3/4						10.0
5	48	30	2 1/4	3/4	1		29 1/8	28 3/4	9 3/8	7 1/4	6 7/8	10	4	20 7/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 3/4						10.0

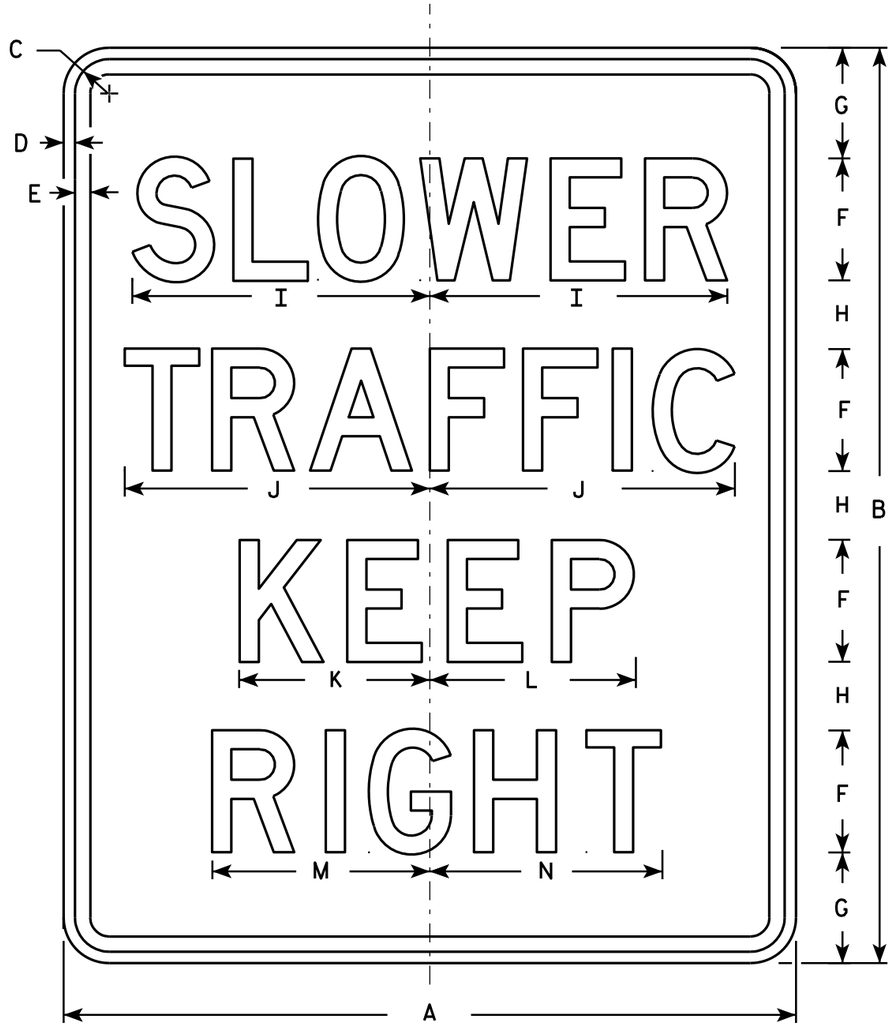
STANDARD SIGN
R3-8 (U) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 212 | E



R4-3

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.

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	24	30	1 1/8	3/8	1/2	4	3 5/8	2 1/4	9 3/4	10	6 1/4	6 3/4	7 1/8	7 5/8													5.0
2M	24	30	1 1/8	3/8	1/2	4	3 5/8	2 1/4	9 3/4	10	6 1/4	6 3/4	7 1/8	7 5/8													5.0
3	36	48	1 5/8	5/8	3/4	6	6	4	14 5/8	15	9 3/8	10	10 3/4	11 3/8													12.0
4	36	48	1 5/8	5/8	3/4	6	6	4	14 5/8	15	9 3/8	10	10 3/4	11 3/8													12.0
5	48	60	2 1/4	3/4	1	8	7 1/4	4 1/2	19 1/2	20	12 1/2	13 1/2	14 1/4	15 1/4													20.0

STANDARD SIGN
R4-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-3.8

PROJECT NO:

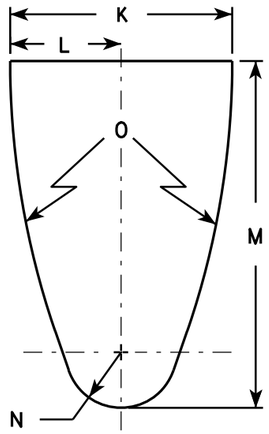
SHEET NO: 213 E

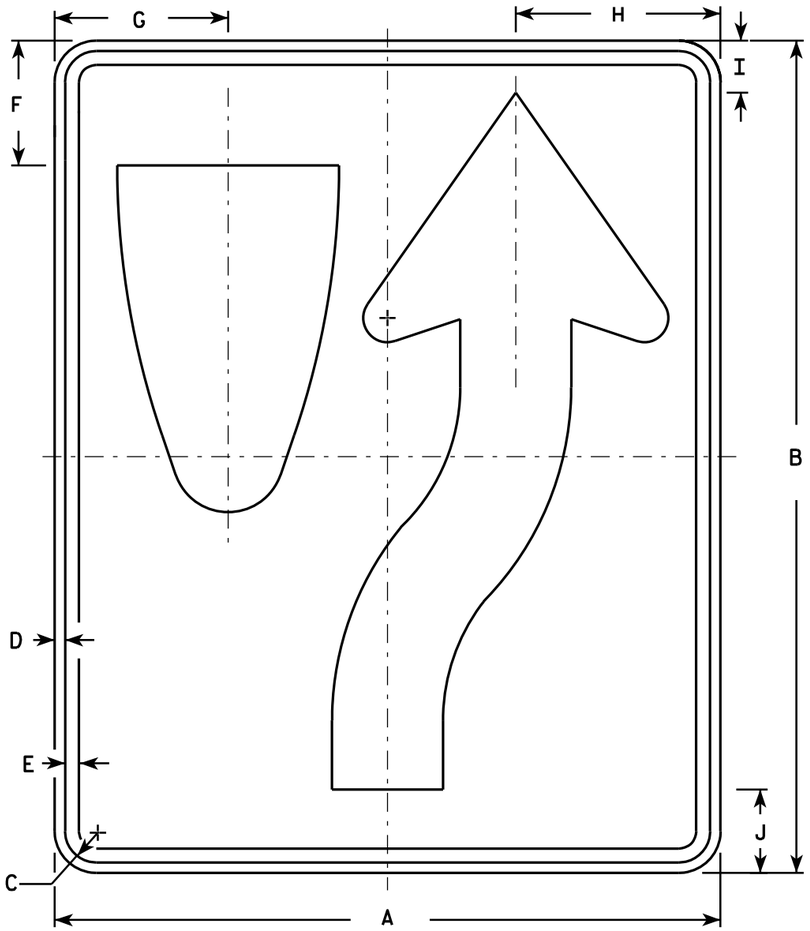
FILE NAME : C:\Users\PROJECTS\tr_stdplate\R43.DGN PLOT DATE : 25-MAR-2011 13:40 PLOT BY : mscsja

WISDOT/CADDS SHEET 42

7

7

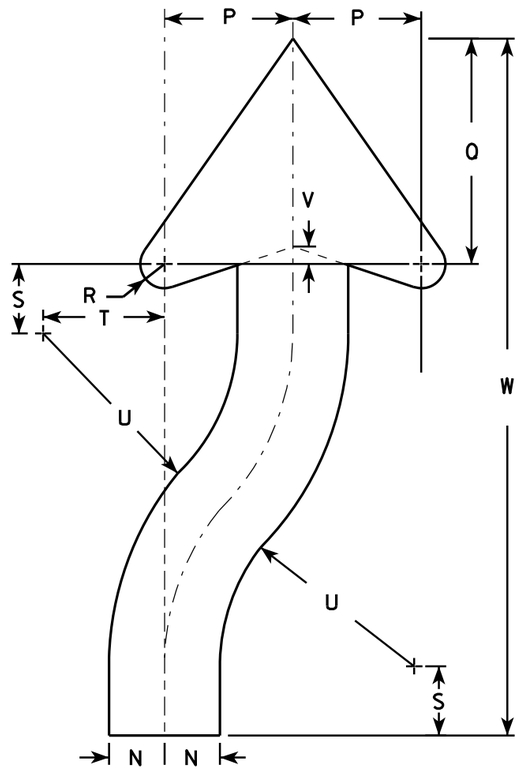




R4-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



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	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

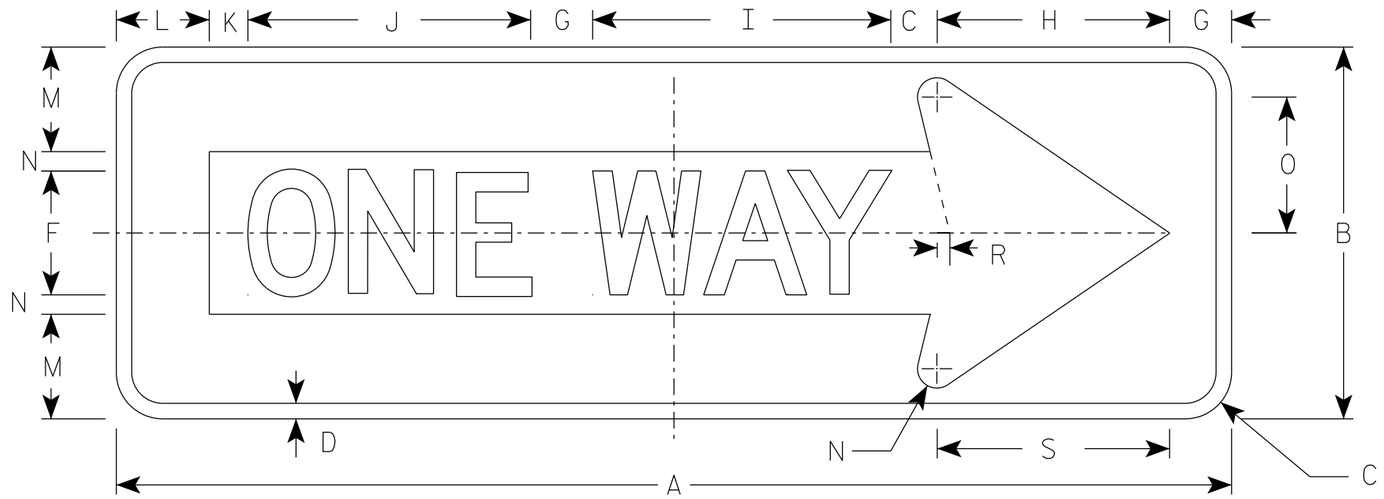
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

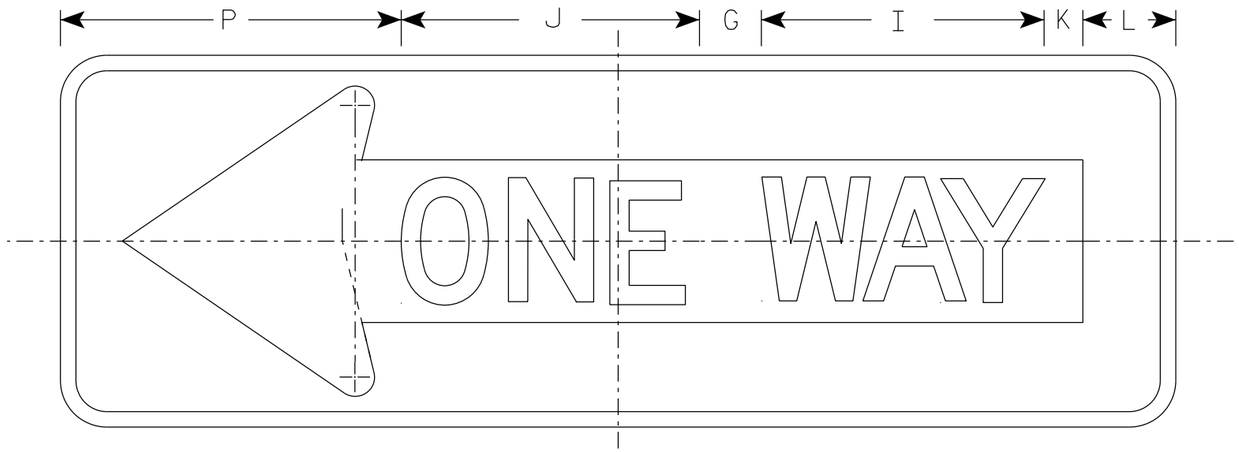
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 214	E



R6-1R

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - BLACK
   Message - BLACK LEGEND & WHITE ARROW & BORDER
3. Message Series - D



R6-1L

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	12	1 1/2	1/2		4	2	7 1/2	9 5/8	9 1/8	1 1/4	3	3 3/8	5/8	4 3/8	11		3/8	7 1/2								3.0
2M	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
3	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
4	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
5																											

STANDARD SIGN
R6-1 L & R

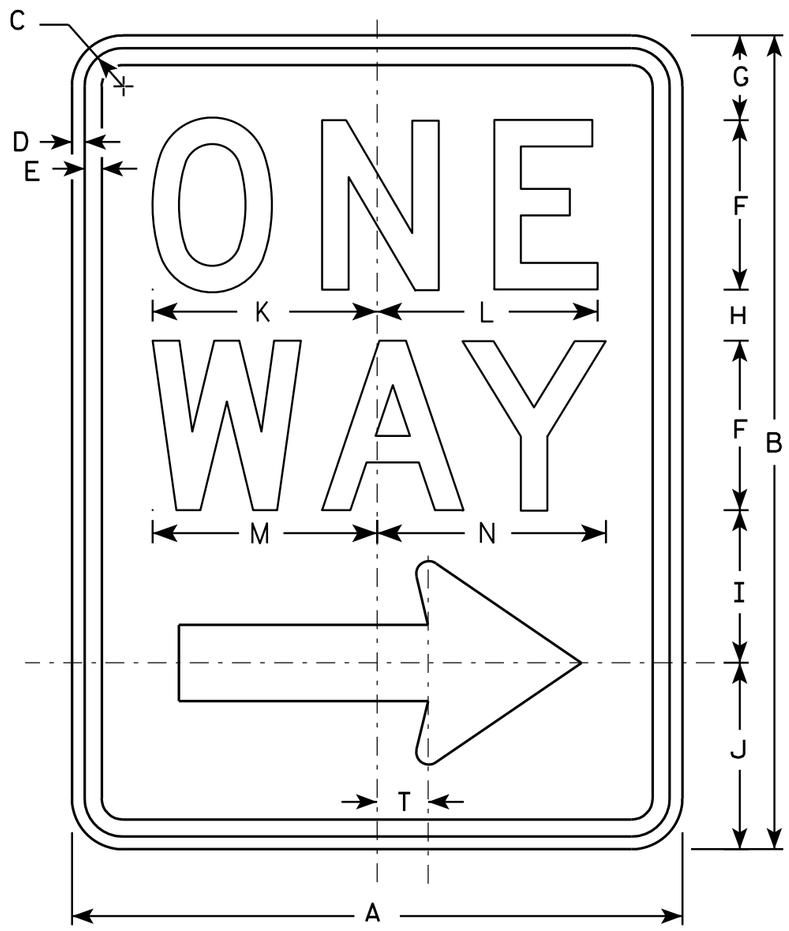
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 07/11/18 PLATE NO. R6-1.3

PROJECT NO:

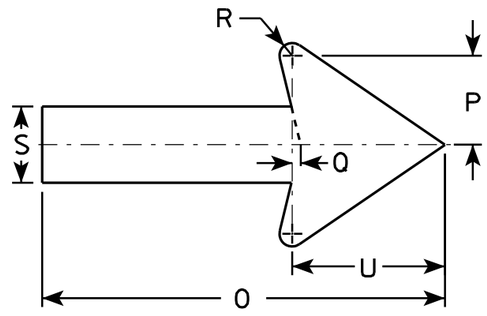
SHEET NO: 215 E



R6-2R

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.
5. R6-2L same as R6-2R except arrow points to the left.



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
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

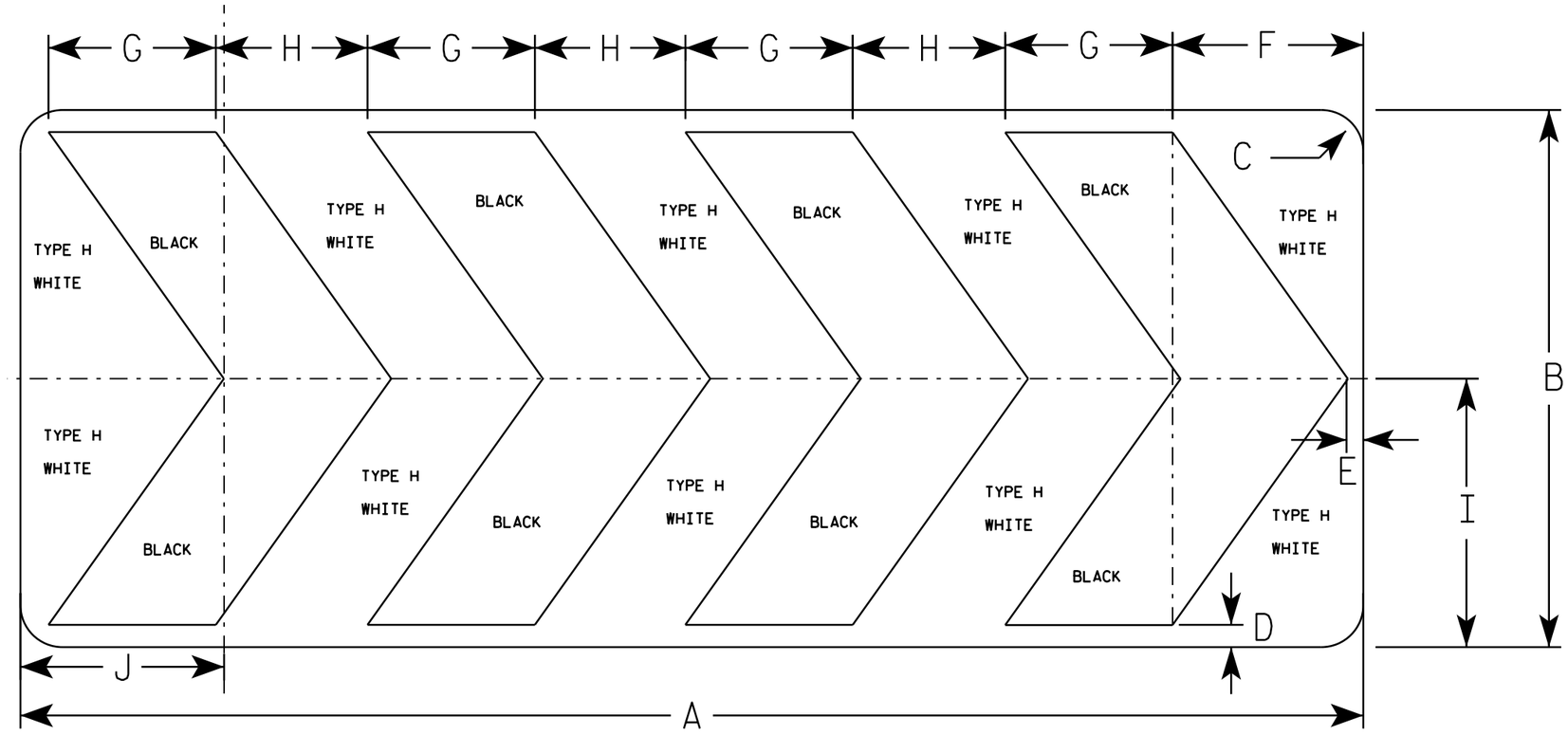
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 216	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - WHITE
   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.



R6-4B

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	60	24	1 7/8	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
2M	60	24	1 7/8	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
3																											
4																											
5																											

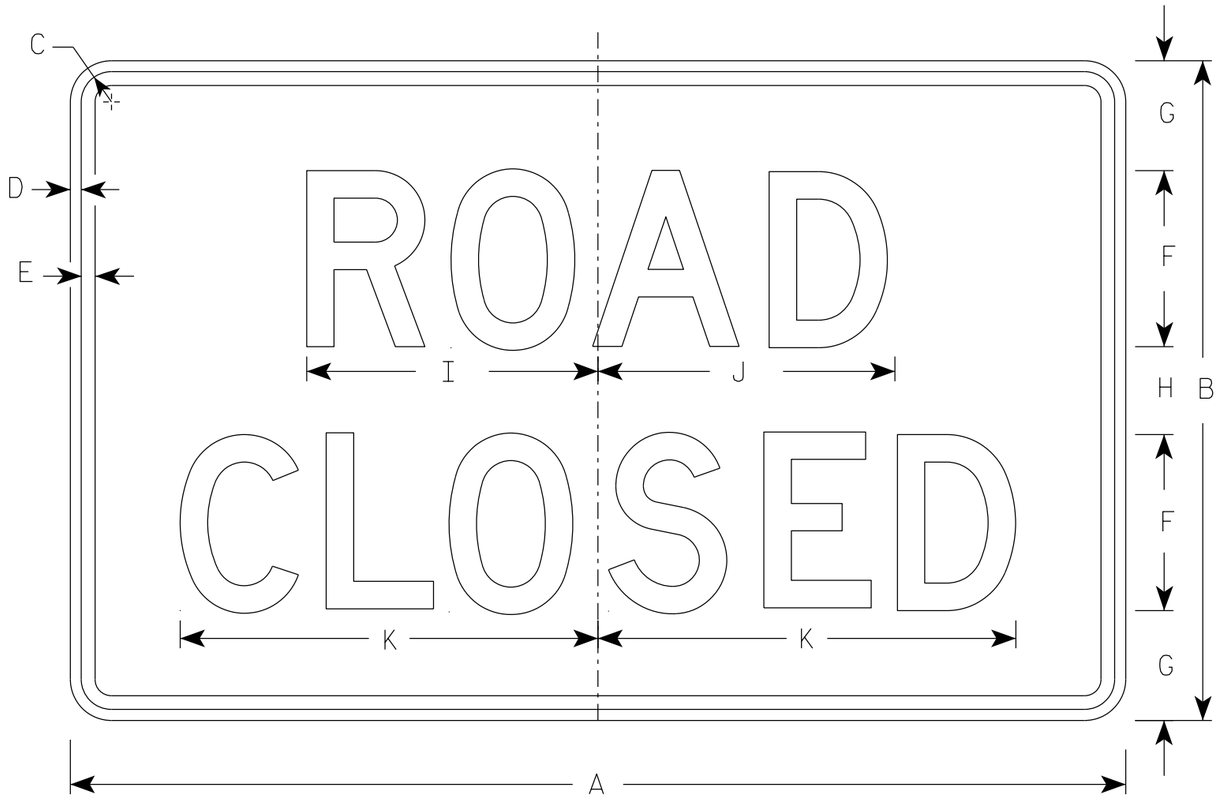
STANDARD SIGN
R6-4B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/14 PLATE NO. R6-4.3

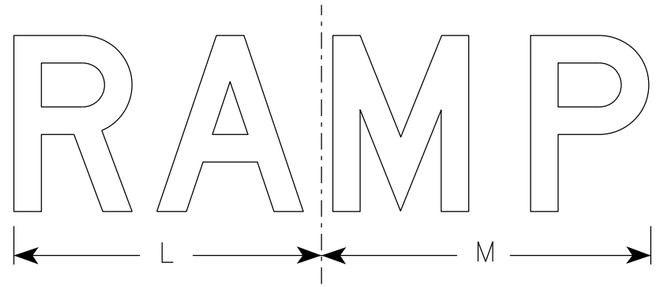
PROJECT NO: SHEET NO: E



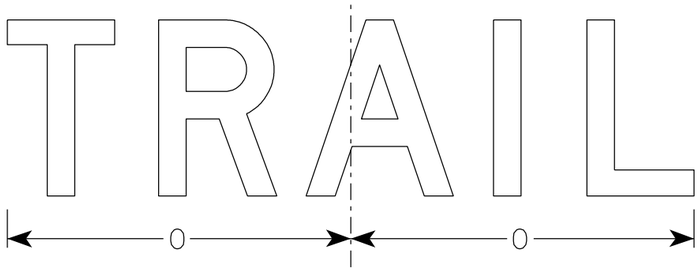
R11-2

NOTES

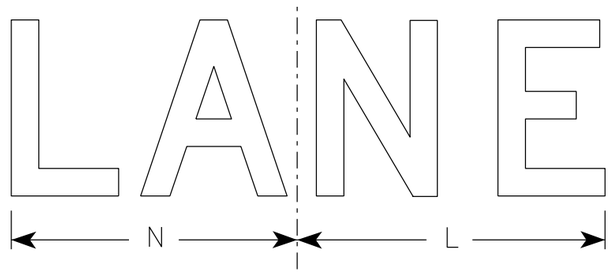
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2T



R11-2L

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	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0

STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2021 PLATE NO. R11-2.11

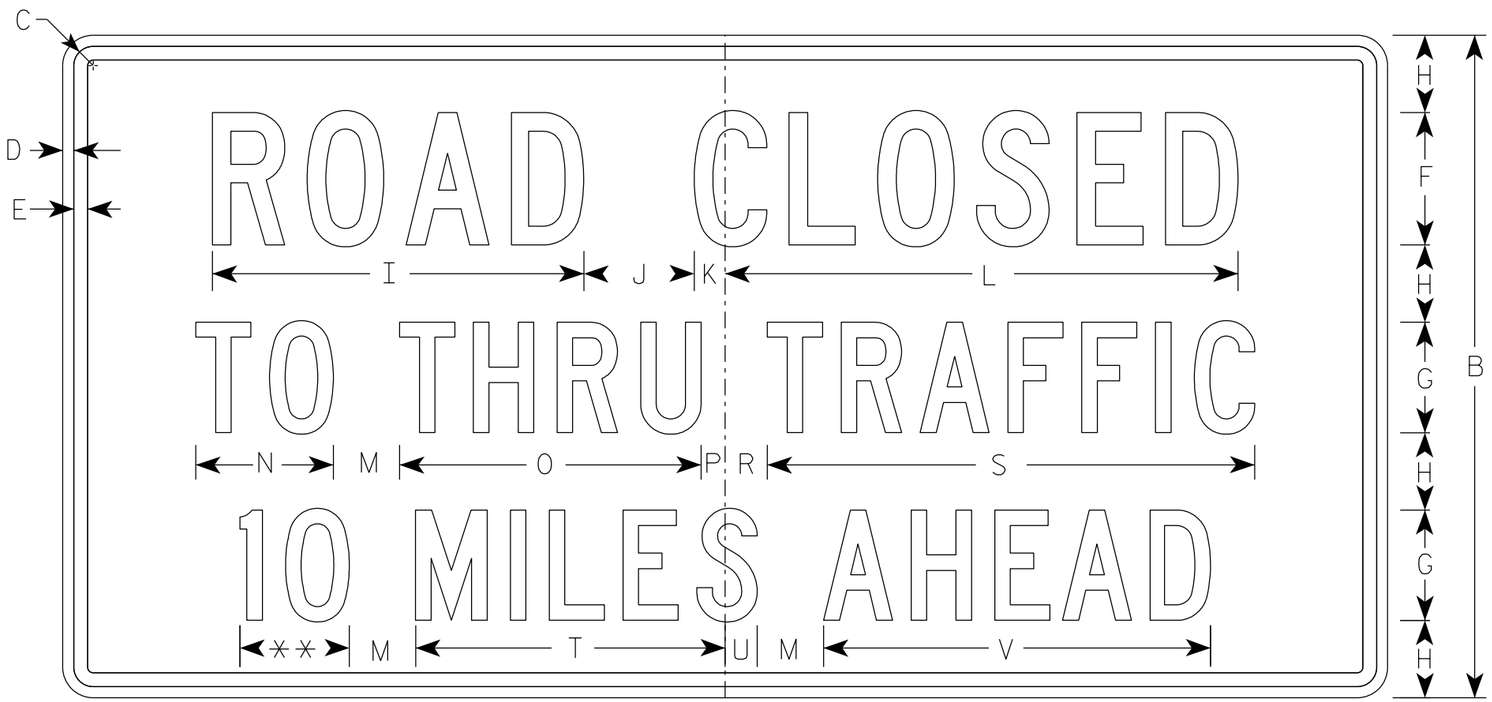
PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R112.dgn PLOT DATE : 29-MAR 2021 8:15 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

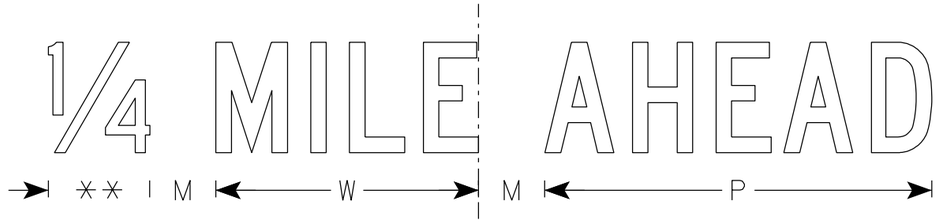
NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.



R11-3

** See Note 5



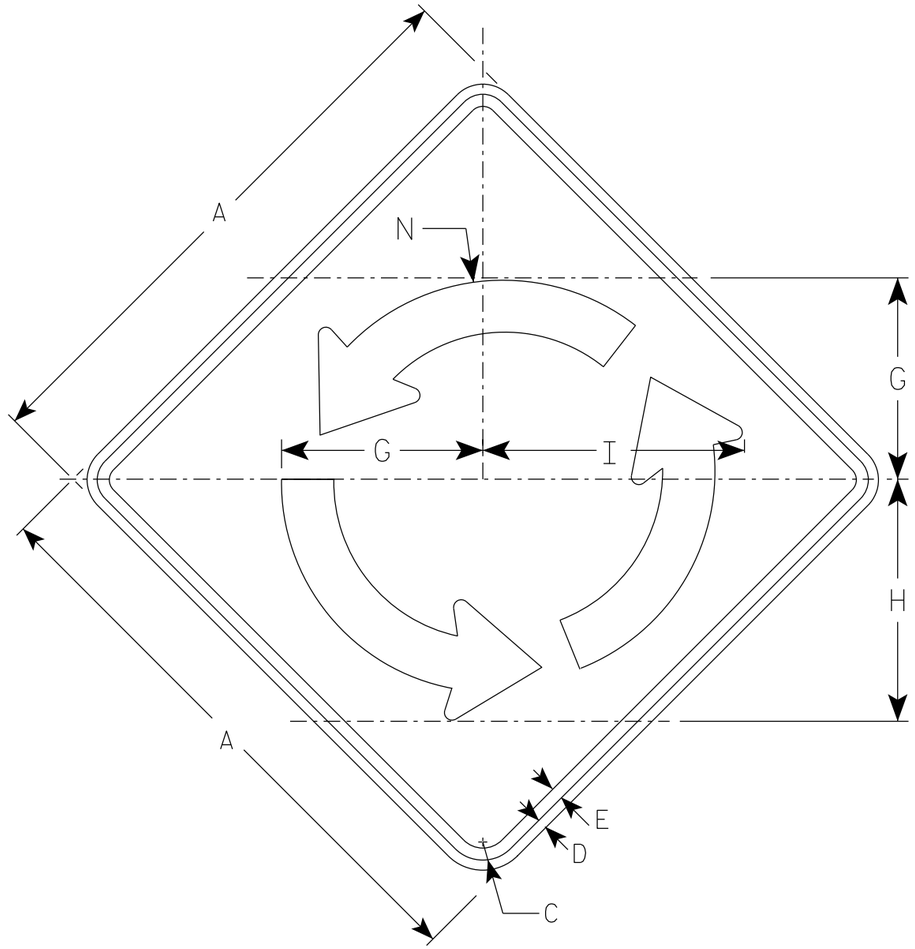
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/4	3/8	3/8	4	3	2	11 1/4	3	1 1/8	15 3/8	2	3 3/4	8 1/4	5/8		1 3/8	13 1/4	8 3/8	7/8	10 1/2	7 1/8				4.5
2S	60	30	1 3/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5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

STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 6/14/2021 PLATE NO. R11-3.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 219	E

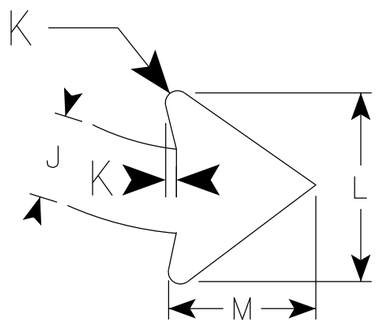


W2-6

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black

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	Area sq. ft.
1																									
2S	30		1 3/8	1/2	5/8		10 3/8	12 1/2	13 1/2	2 3/4	3/8	6	4 3/4	11 1/8											6.25
2M	30		1 3/8	1/2	5/8		10 3/8	12 1/2	13 1/2	2 3/4	3/8	6	4 3/4	11 1/8											6.25
3	36		1 5/8	5/8	3/4		12 1/2	15	16 1/4	3 1/4	1/2	7 3/8	5 3/4	13 3/8											9.00
4	48		2 1/4	3/4	1		16 5/8	20	16 1/4	4 3/8	5/8	9 3/4	7 5/8	17 7/8											16.0
5																									

STANDARD SIGN
W2-6

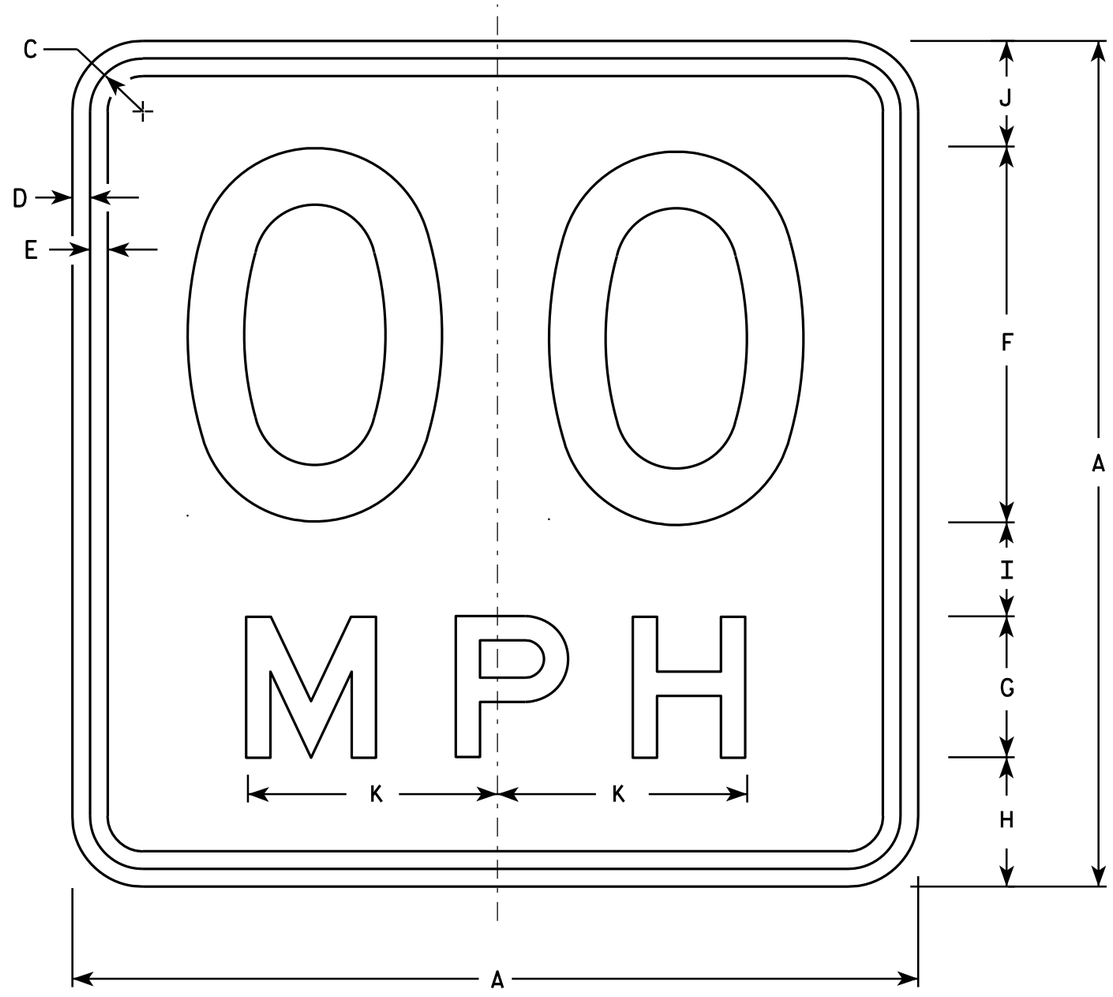
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/24/21 PLATE NO. W2-6.7

PROJECT NO:

SHEET NO: 220 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

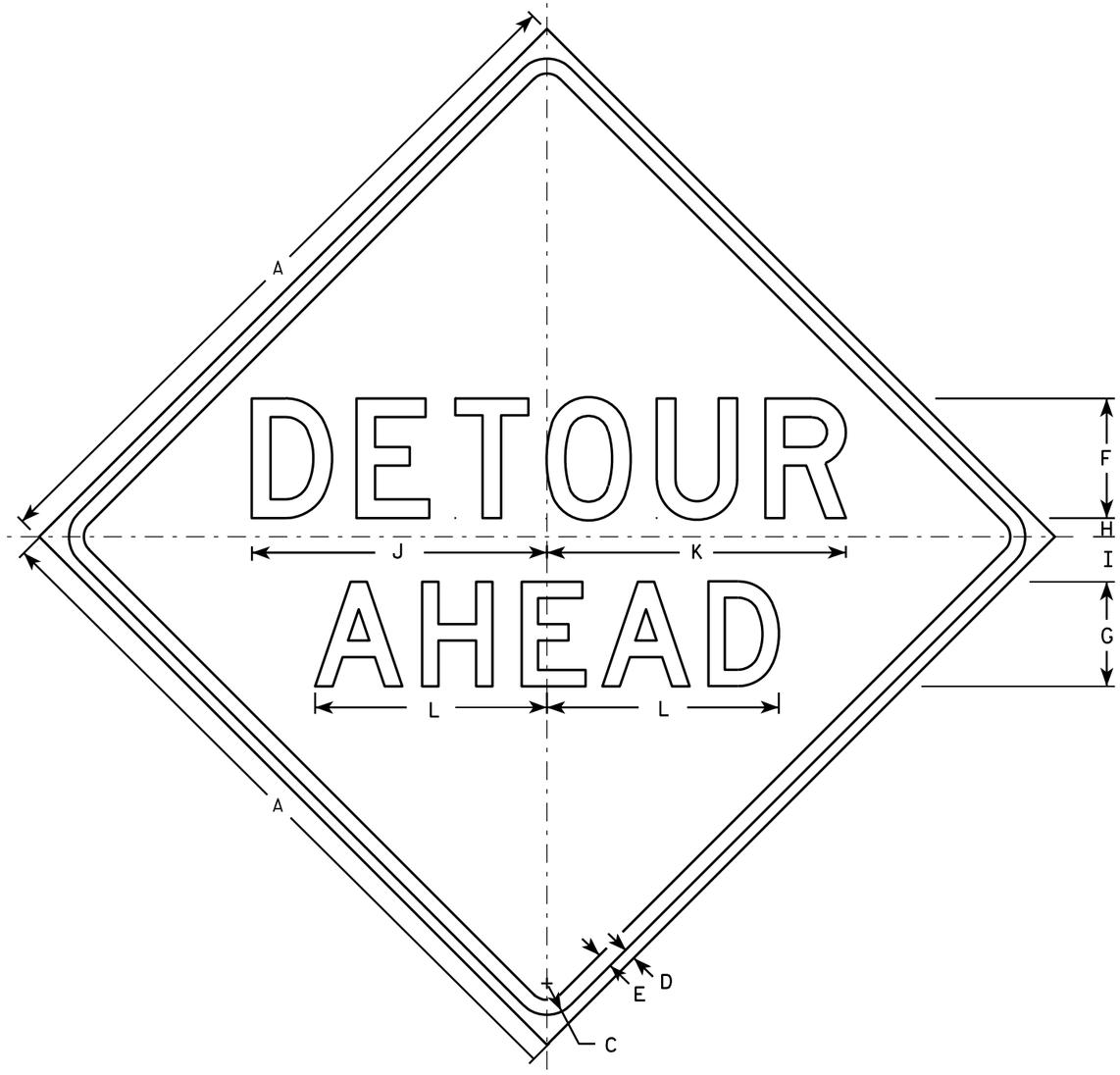
STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

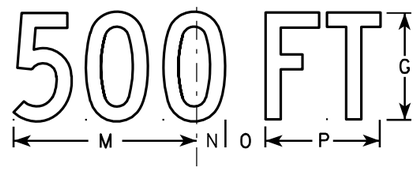
APPROVED Matthew R Rauch
For State Traffic Engineer

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

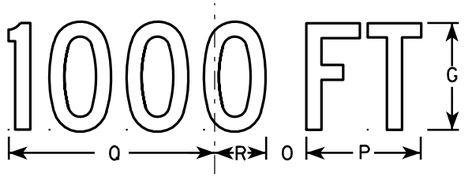
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 221 | E



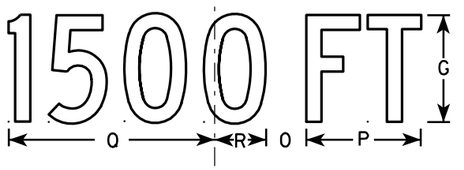
W20-2A



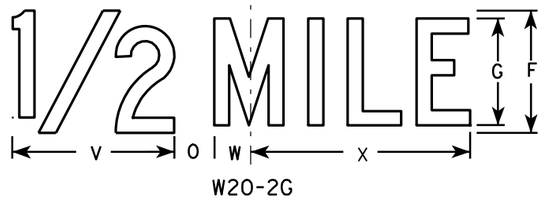
W20-2D



W20-2C



W20-2B



W20-2G



W20-2F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series D.
   Line 2 is Series D for AHEAD and Series C for all other distances.

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

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

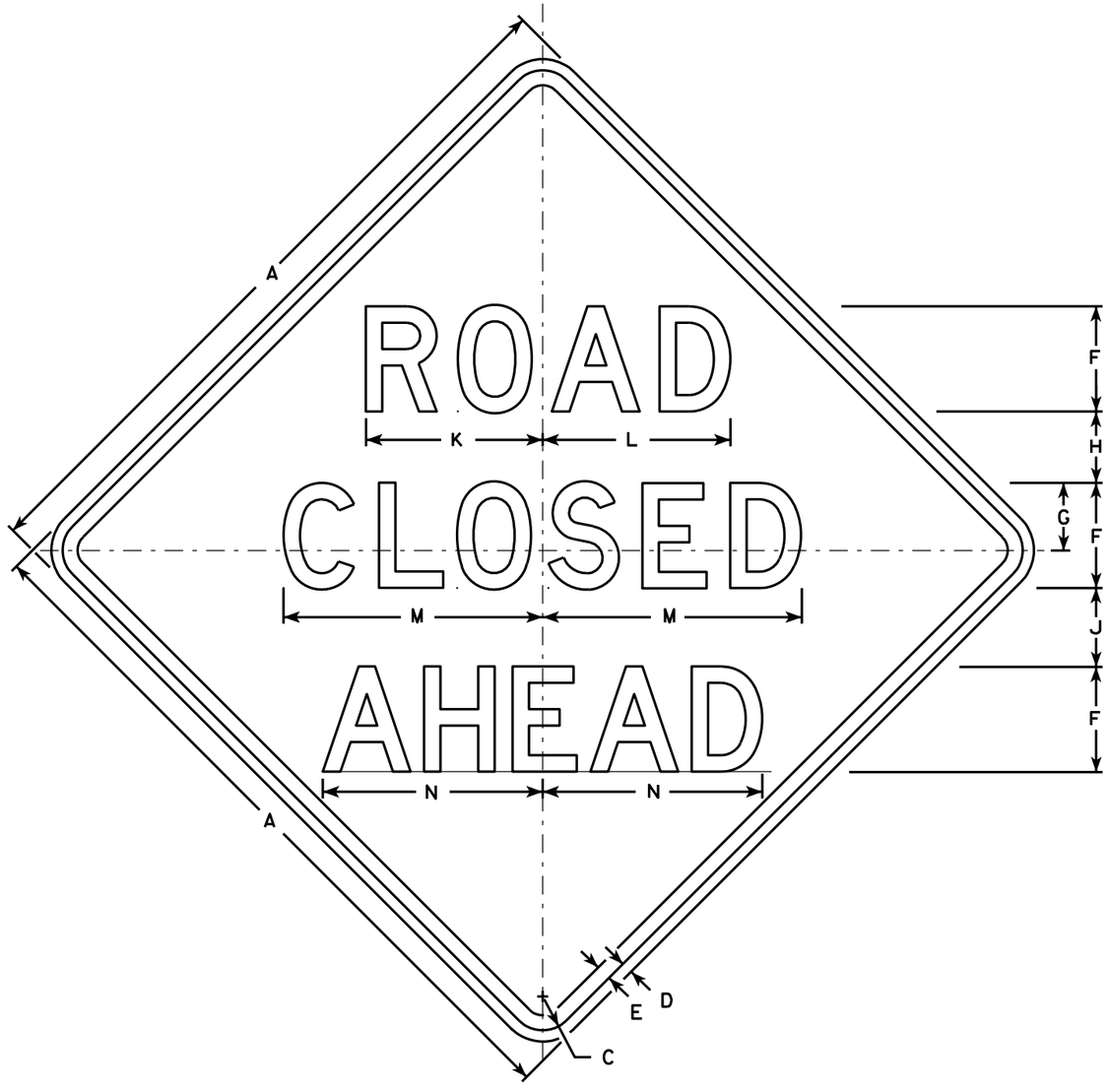
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

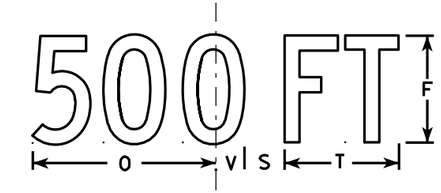
DATE 3/18/11 PLATE NO. W20-2.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 222 | E

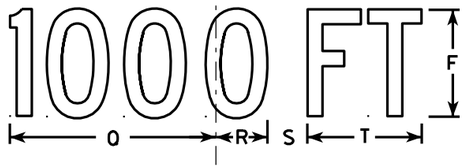
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W202.DGN PLOT DATE : 18-MAR-2011 10:00 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.931739:1.000000
WISDOT/CADDS SHEET 42



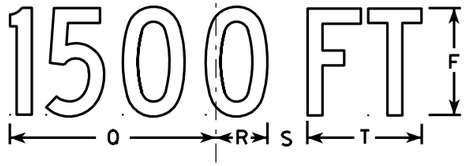
W20-3A



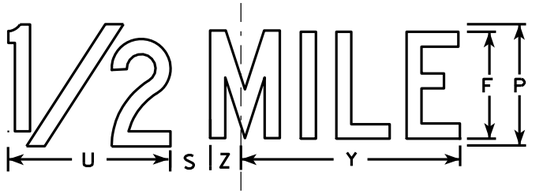
W20-3D



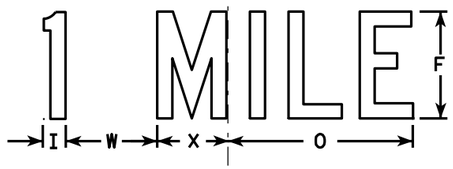
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

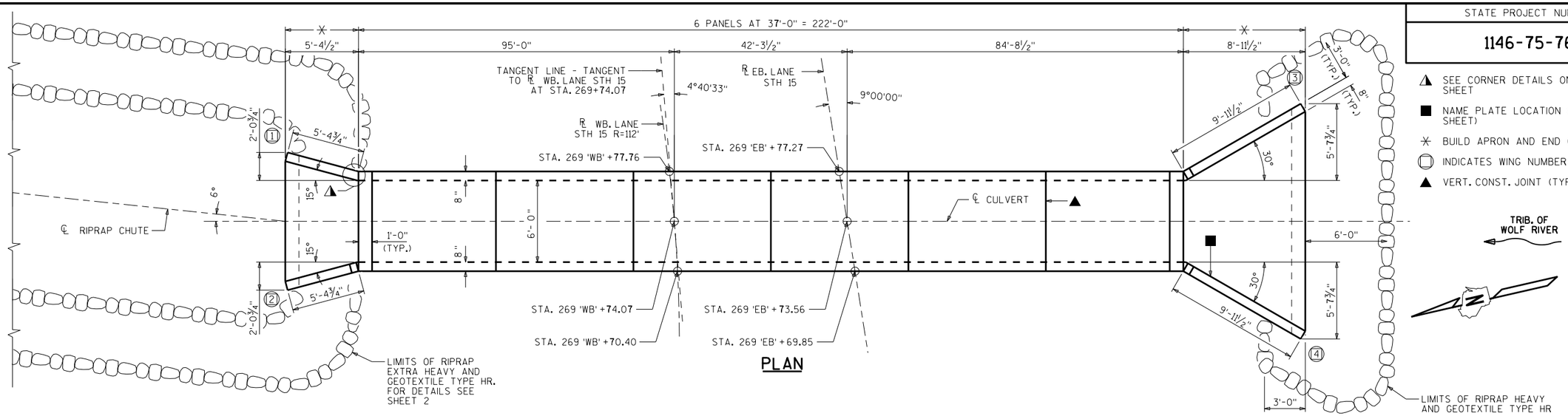
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-3.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 223 | E

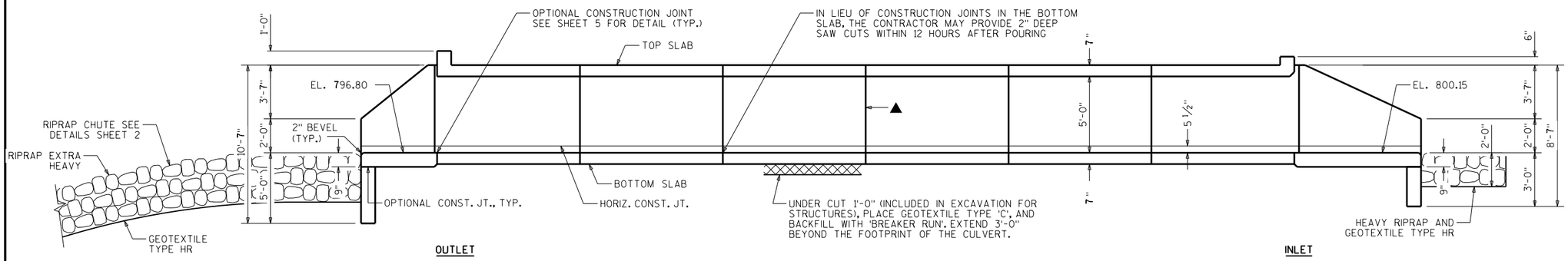
STATE PROJECT NUMBER

1146-75-76



PLAN

- ▲ SEE CORNER DETAILS ON "DETAILS" SHEET
- ■ NAME PLATE LOCATION (SEE "DETAILS" SHEET)
- ✳ BUILD APRON AND END OF BOX LEVEL
- ⬭ INDICATES WING NUMBER
- ▲ VERT. CONST. JOINT (TYP.)



OUTLET — INLET

ELEVATION

LIST OF DRAWINGS

1. LAYOUT
2. RIPRAP CHUTE DETAILS
3. BOX DETAILS
4. APRON DETAILS
5. DETAILS
6. SUBSURFACE EXPLORATION

DESIGN DATA

LIVE LOAD:
DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF = 1.05
OPERATING RATING FACTOR: RF = 1.35
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 255(KIPS)

EARTHLOAD:
DESIGNED FOR 15.0 FT. OF FILL.

MATERIAL PROPERTIES:
CONCRETE MASONRY: ——— f'c = 3,500 P.S.I.
BAR STEEL REINFORCEMENT: ——— fy = 60,000 P.S.I.

HYDRAULIC DATA

100 YEAR FREQUENCY
Q_{100} = 155 C.F.S.
VEL. = 13.3 F.P.S.
$HW._{100}$ = EL. 806.9
DRAINAGE AREA = 0.34 SQ. MI.
ROADWAY OVERTOPPING = N/A
SCOUR CRITICAL CODE = 8

2 YEAR FREQUENCY
Q_2 = 18.0 C.F.S.
$HW._2$ = EL. 805.78

TRAFFIC VOLUME

STH 15
ADT = 20,000 (2040)
R.D.S. = 60 M.P.H.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
206.2001	EXCAVATION FOR STRUCTURES CULVERTS C-44-124	EACH	1
210.2500	BACKFILL STRUCTURE TYPE B	TON	2095
311.0115	BREAKER RUN	CY	118
504.0100	CONCRETE MASONRY CULVERTS	CY	137
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	36,150
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	710
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	26
606.0300	RIPRAP HEAVY	CY	14
606.0400	RIPRAP EXTRA-HEAVY	CY	358
645.0105	GEOTEXTILE TYPE C	SY	410
645.0120	GEOTEXTILE TYPE HR	SY	415
	NON-BID ITEMS		
	FILLER	SIZE	¾"

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-44-124" SHALL BE THE EXISTING GROUNDLINE.

ALL VOLUME WHICH CANNOT BE PLACED BEFORE CULVERT CONSTRUCTION AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL WITHIN THE LENGTH OF THE CULVERT INCLUDING THE APRON WING WALLS.

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.

THE CONCRETE IN THE CUTOFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

PLACE 18" (MIN.) WIDE SHEET OF "RUBBERIZED MEMBRANE WATERPROOFING" ON TOP SLAB OVER ALL CONSTRUCTION JOINTS AND EXTEND DOWN TO BOTTOM OF OUTSIDE WALLS.

THE CONTRACTOR MAY FURNISH A PRECAST CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE BOX CULVERT WITH THE ACCEPTANCE OF THE SHOP DRAWINGS BY THE STRUCTURES DESIGN SECTION. THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO PRECAST DETAILS ON CHAPTER 36 STANDARDS OF THE CURRENT WISC. DOT BRIDGE MANUAL. PAYMENT FOR THE PRECAST CULVERT SHALL BE BASED ON THE QUANTITIES AND PRICES BID FOR THE ITEMS LISTED IN THE "TOTAL ESTIMATED QUANTITIES".

THE CONTRACTOR MAY ELECT TO SUBSTITUTE #1 OR #2 CONCRETE COARSE AGGREGATE, SELECT CRUSHED MATERIAL OR OTHER GRANULAR MATERIAL AS APPROVED BY THE FIELD ENGINEER, IN LIEU OF THE BREAKER RUN, TO BE UTILIZED AS A CONSTRUCTION PLATFORM FOR THE BOX. THE CONTRACTOR IS RESPONSIBLE FOR BASE STABILITY WITH ANY SUBSTITUTED MATERIAL.

STRUCTURE DESIGN CONTACTS:
DANIELLE DE TENNIS (608) 266-8689
AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED DMB 08/18/22
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE C-44-124

STH 15 OVER TRIBUTARY TO WOLF RIVER

COUNTY	TOWN
OUTAGAMIE	HORTONIA

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
DFD	LMK	DFD	JJS

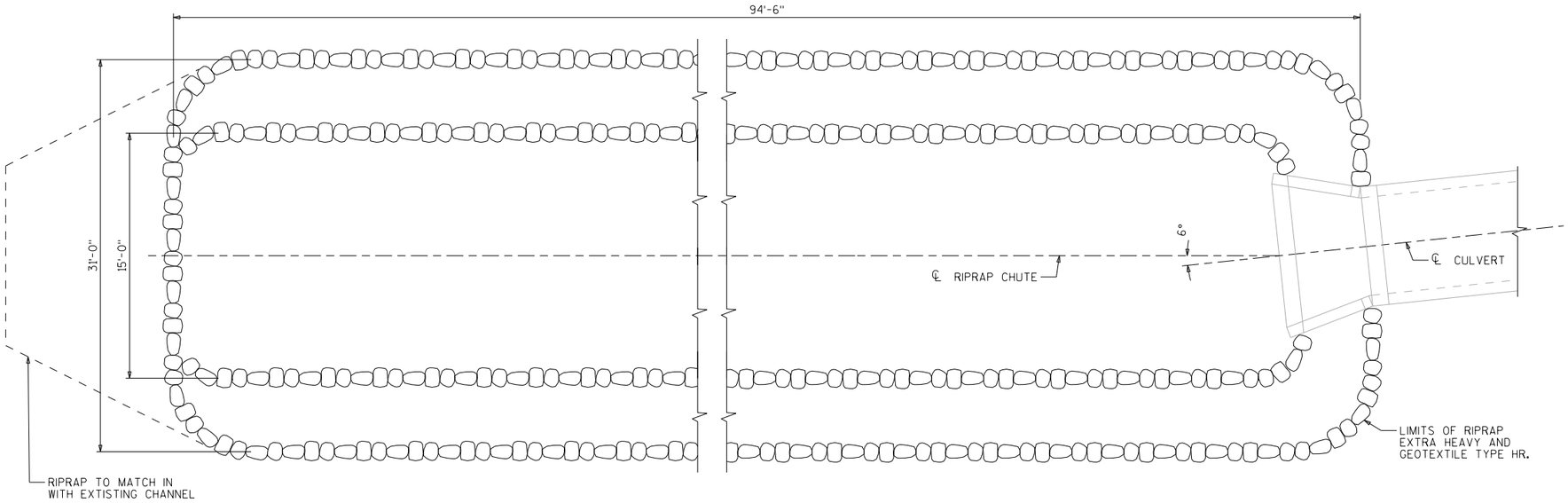
LAYOUT — SHEET 1 OF 6 — 224

I.D. 1146-75-00F DATE: AUG. 2022

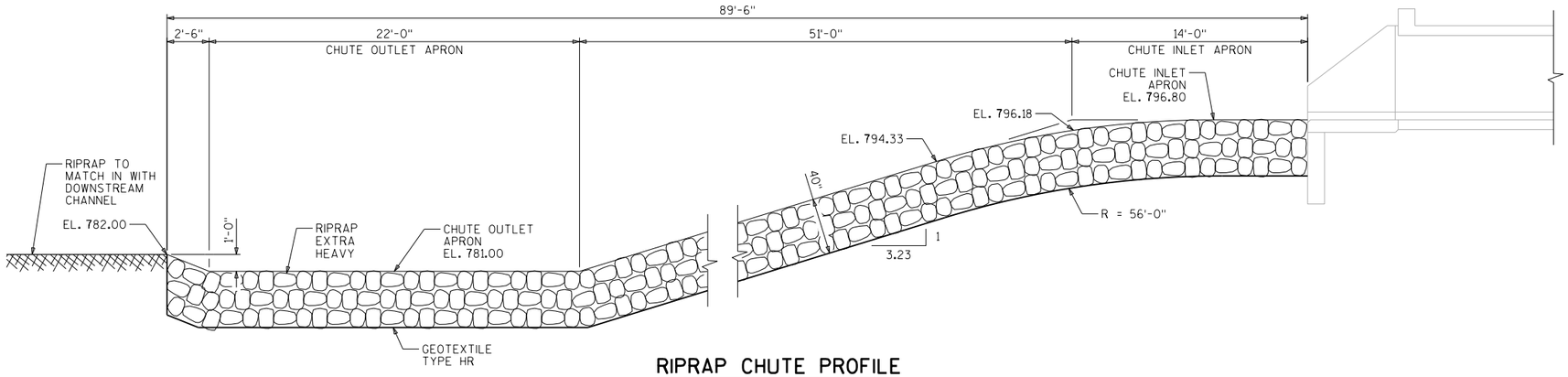
SCALE = 4.00

STATE PROJECT NUMBER
1146-75-76

NOTE:
USE ANGULAR (NOT ROUNDED) RIPRAP IN CHUTE

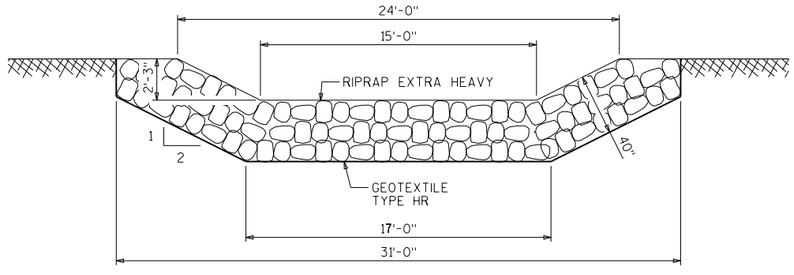


RIPRAP CHUTE PLAN



RIPRAP CHUTE PROFILE

ALONG ℄ CHUTE



SECTION THRU CHUTE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-44-124

DRAWN BY DFD | PLANS CK'D. JJS

RIPRAP CHUTE DETAILS

SHEET 2

225

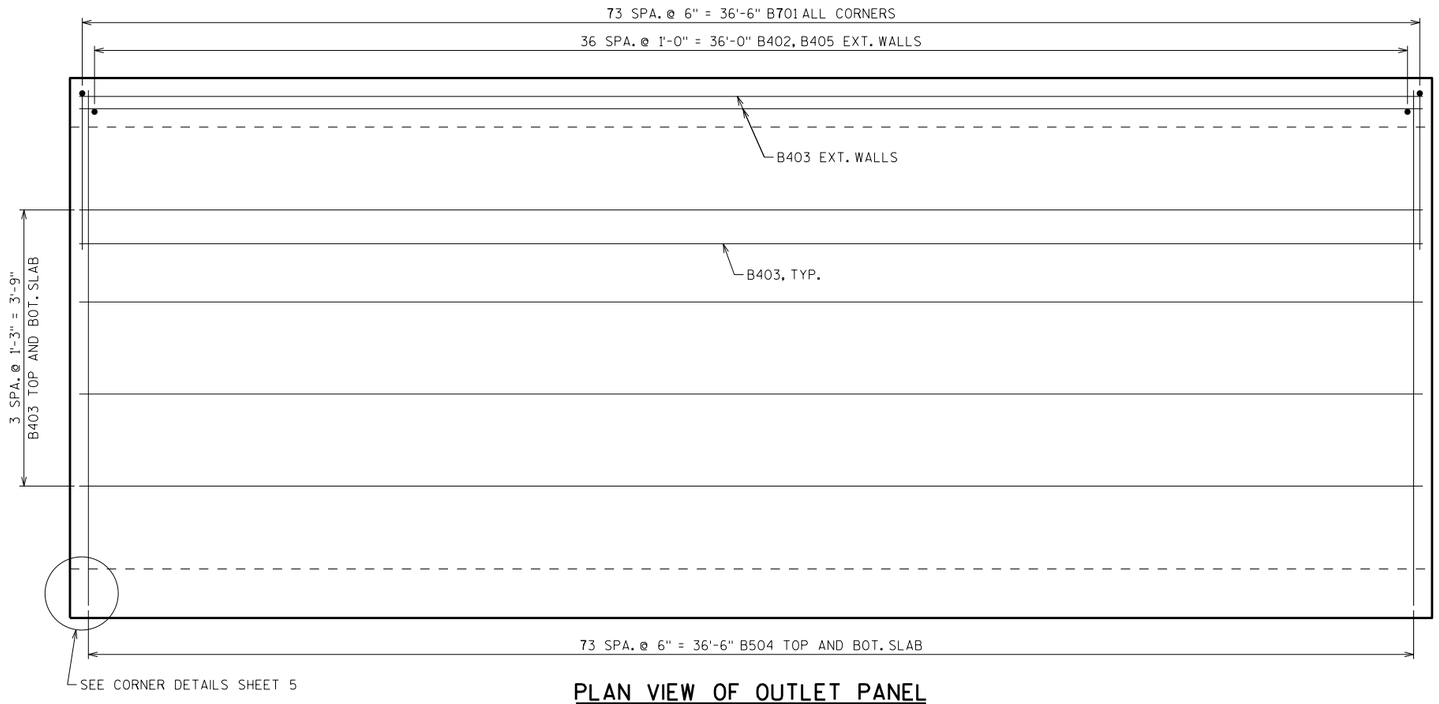
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8

8

STATE PROJECT NUMBER

1146-75-76



PLAN VIEW OF OUTLET PANEL

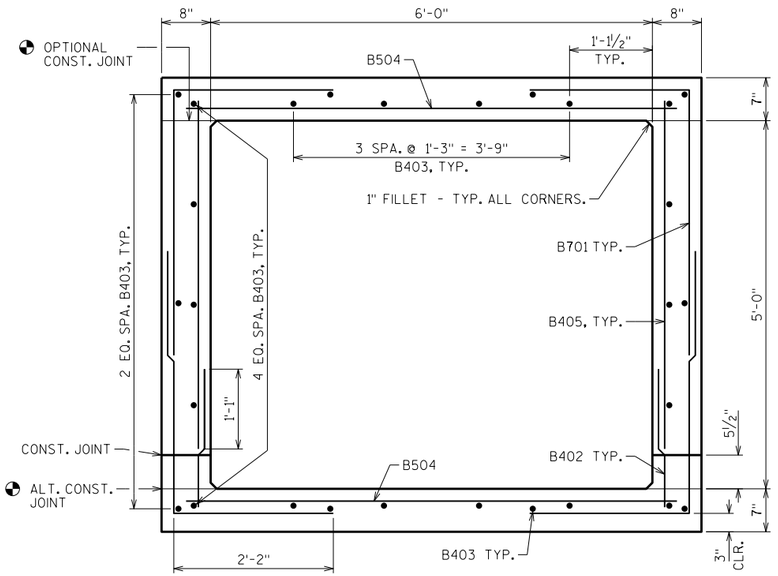
USE IDENTICAL STEEL IN OTHER PANELS
APRON AND HEADER ARE NOT SHOWN

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

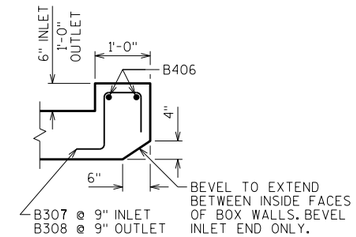
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B701		1776	6'-3"	X		CORNERS
B402		432	1'-11"			EXTERIOR WALL DOWELS
B403		168	36'-6"			TOP AND BOT. SLAB AND WALLS LONGIT.
B504		888	7'-0"			TOP AND BOT. SLAB TRANSVERSE
B405		432	4'-10"			EXTERIOR WALLS VERTICAL
B406		4	7'-0"			HEADERS HORIZONTAL
B307		10	2'-0"	X		INLET HEADER STIRRUP
B308		10	3'-4"	X		OUTLET HEADER STIRRUP
B509		130	4'-0"			VERTICAL CONST. JOINT

⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

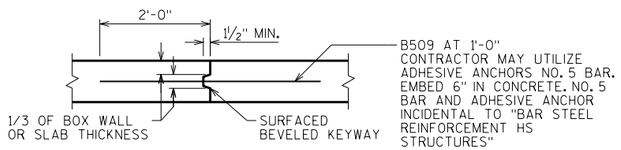


TYPICAL SECTION THRU BOX

OMIT 1" FILLET IF JOINT IS USED

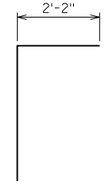


SECTION THRU HEADER

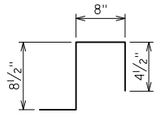


VERTICAL CONSTRUCTION JOINT

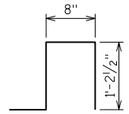
2" DEEP SAW CUT WITHIN 12 HOURS AFTER POURING MAY BE USED IN LIEU OF CONST. JT. IN BOTTOM SLAB.



B701



B307



B308

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-44-124

DRAWN BY DFD | PLANS CK'D. JJS

BOX DETAILS

SHEET 3

226

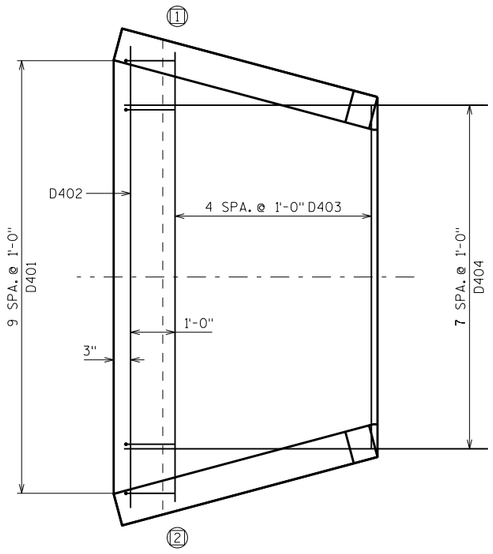
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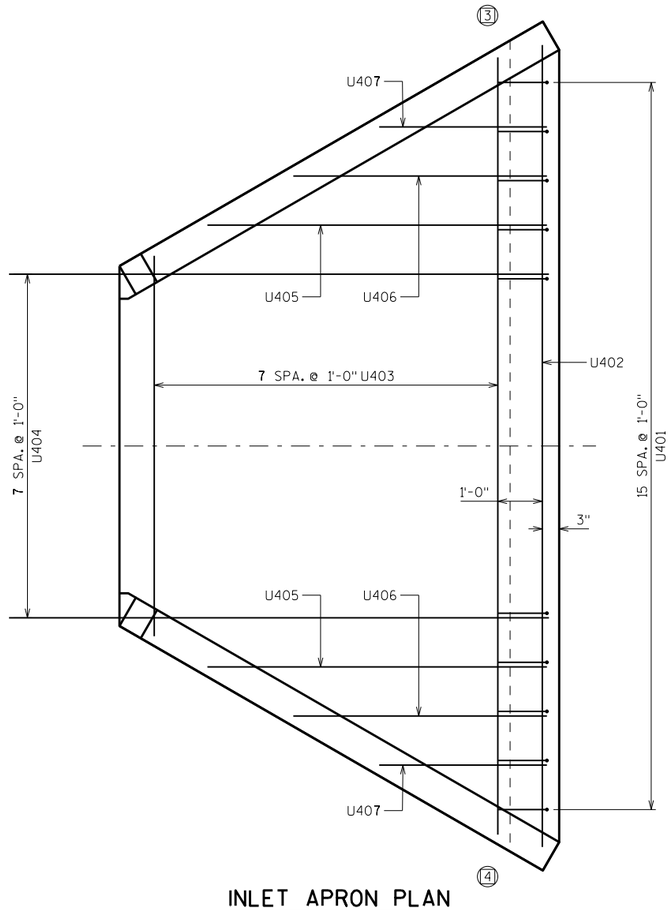
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STATE PROJECT NUMBER

1146-75-76

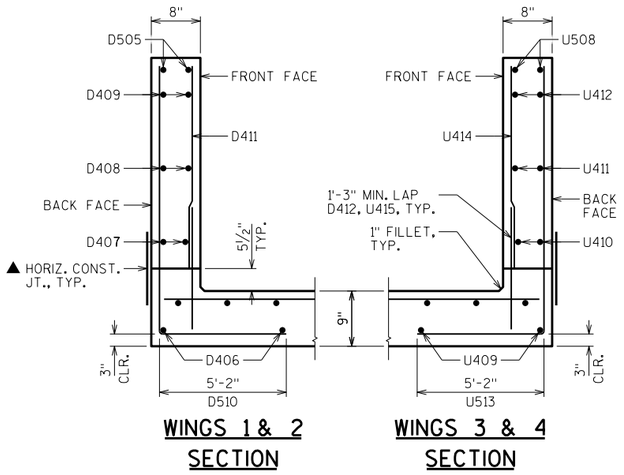




OUTLET APRON PLAN

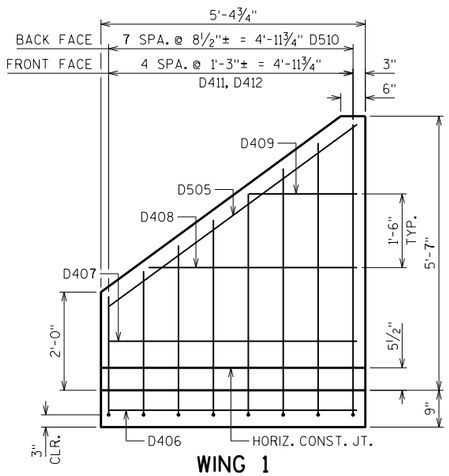
INLET APRON PLAN

INDICATES WING NUMBER



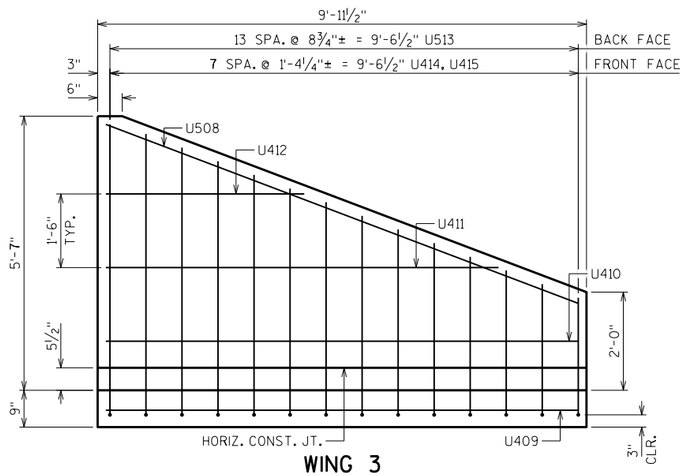
WINGS 1 & 2 SECTION

WINGS 3 & 4 SECTION



WING 1

SHOWING BACK FACE REINFORCEMENT
WING 2 SIMILAR



WING 3

SHOWING BACK FACE REINFORCEMENT
WING 4 SIMILAR

▲ 18" RUBBERIZED MEMBRANE WATERPROOFING, PLACE ALONG HORIZ. CONST. JT. FOR ENTIRE WING LENGTH, TYP.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-44-124

DRAWN BY DFD | PLANS CK'D. JJS

APRON DETAILS

SHEET 4

227

SCALE = 1.50

8

8

STATE PROJECT NUMBER

1146-75-76

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

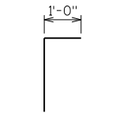
BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
D401		10	5'-6"	X		OUTLET APRON AND CUTOFF WALL VERT.
D402		5	9'-4"			OUTLET APRON AND CUTOFF WALL HORIZ.
D403		5	8'-1"		⚠	OUTLET APRON SLAB HORIZ.
D404		8	7'-5"			OUTLET APRON AND BOX SLAB HORIZ.
D505	X	4	6'-1"			WINGS 1 & 2 HORIZ. TOP BOTH FACES
D406	X	4	5'-0"			WINGS 1 & 2 HORIZ. APRON SLAB
D407	X	4	5'-0"			WINGS 1 & 2 HORIZ. BOTTOM BOTH FACES
D408	X	4	4'-2"			WINGS 1 & 2 HORIZ.
D409	X	4	2'-2"			WINGS 1 & 2 HORIZ.
D510	X	16	9'-2"	X	⚠	WINGS 1 & 2 VERT. BACK FACE
D411	X	10	3'-2"		⚠	WINGS 1 & 2 VERT. FRONT FACE
D412	X	10	2'-3"			WINGS 1 & 2 DOWELS FRONT FACE
U401		16	3'-6"	X		INLET APRON AND CUTOFF WALL VERT.
U402		3	16'-4"			INLET APRON AND CUTOFF WALL HORIZ.
U403		8	11'-9"		⚠	INLET APRON SLAB HORIZ.
U404		8	11'-0"			INLET APRON AND BOX SLAB HORIZ.
U405		2	6'-11"			INLET APRON SLAB HORIZ.
U406		2	5'-2"			INLET APRON SLAB HORIZ.
U407		2	3'-5"			INLET APRON SLAB HORIZ.
U508	X	4	10'-2"			WINGS 3 & 4 HORIZ. TOP BOTH FACES
U409	X	4	9'-7"			WINGS 3 & 4 HORIZ. APRON SLAB
U410	X	4	9'-7"			WINGS 3 & 4 HORIZ. BOTTOM BOTH FACES
U411	X	4	8'-0"			WINGS 3 & 4 HORIZ.
U412	X	4	4'-0"			WINGS 3 & 4 HORIZ.
U513	X	28	9'-2"	X	⚠	WINGS 3 & 4 VERT. BACK FACE
U414	X	16	3'-2"		⚠	WINGS 3 & 4 VERT. FRONT FACE
U415	X	16	2'-3"			WINGS 3 & 4 DOWELS FRONT FACE

⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

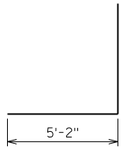
BAR SERIES TABLE

BAR MARK	NO. REQ'D	LENGTH
D403	1 SERIES OF 5	7'-0" TO 9'-2"
D510	2 SERIES OF 8	7'-5" TO 10'-11"
D411	2 SERIES OF 5	1'-5" TO 4'-11"
U403	1 SERIES OF 8	7'-8" TO 11'-9"
U513	2 SERIES OF 14	7'-5" TO 10'-11"
U414	2 SERIES OF 8	1'-5" TO 4'-11"

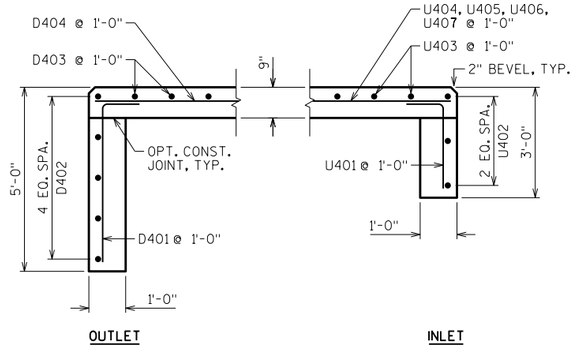
BUNDLE AND TAG EACH SERIES SEPARATELY



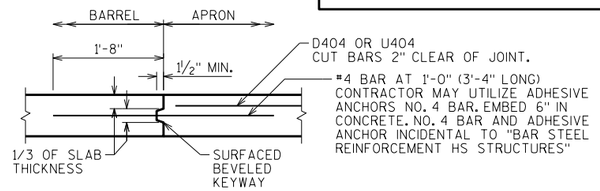
D401, U401



D510, U513

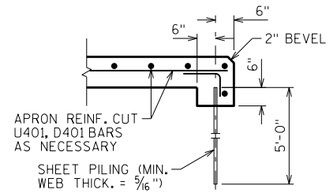


CUT-OFF WALLS



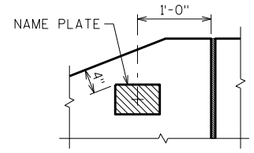
OPTIONAL CONSTRUCTION JOINT

2" DEEP SAW CUT WITHIN 12 HOURS AFTER POURING MAY BE USED IN LIEU OF CONST. JT. IN BOTTOM SLAB.

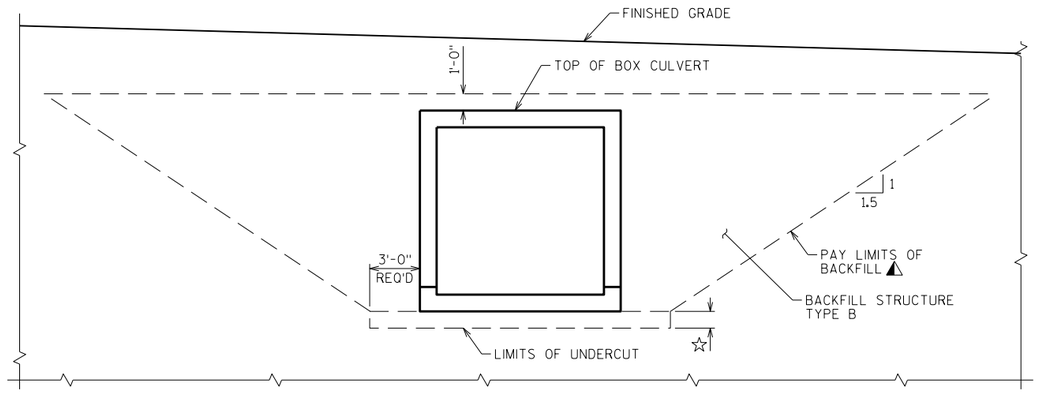


ALTERNATE CUT-OFF WALLS

THE ABOVE ALTERNATIVE MAY BE USED IN LIEU OF CAST-IN-PLACE CONCRETE CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONCRETE CUT-OFF WALLS.



NAME PLATE LOCATION
WING 4

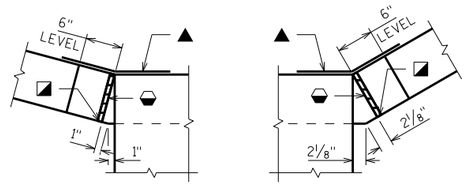


TYPICAL SECTION
THRU BOX CULVERT

⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

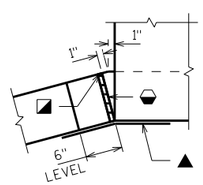
☆ UNDER CUT 1'-0". EXCAVATION FOR UNDER CUT TO BE INCLUDED IN EXCAVATION FOR STRUCTURES. PLACE "GEOTEXTILE TYPE C" AND BACKFILL WITH "BREAKER RUN".

IN LIEU OF USING BREAKER RUN FOR THE BOX CONSTRUCTION PLATFORM, THE CONTRACTOR MAY ELECT TO SUBSTITUTE #1 OR #2 CONCRETE COARSE AGGREGATE, SELECT CRUSHED MATERIAL OR OTHER GRANULAR MATERIAL AS APPROVED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR BASE STABILITY WITH ANY SUBSTITUTED MATERIAL. THE REGION GEOTECHNICAL ENGINEER MAY BE CONTACTED TO DETERMINE IF "OTHER GRANULAR MATERIAL" IS ACCEPTABLE.

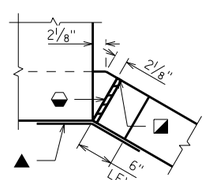


CORNER 1

CORNER 3



CORNER 2



CORNER 4

CORNER DETAILS

- 3/4" FILLER, TYP. EXTEND FILLER FROM HORIZ. CONST. JT. TO TOP OF WING.
- 1" BEVEL, TYP.
- 18" RUBBERIZED MEMBRANE WATERPROOFING. EXTEND FROM HORIZ. CONST. JT. TO TOP OF WALL.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-44-124

DRAWN BY DFD | PLANS CK'D. JJS

DETAILS

SHEET 5

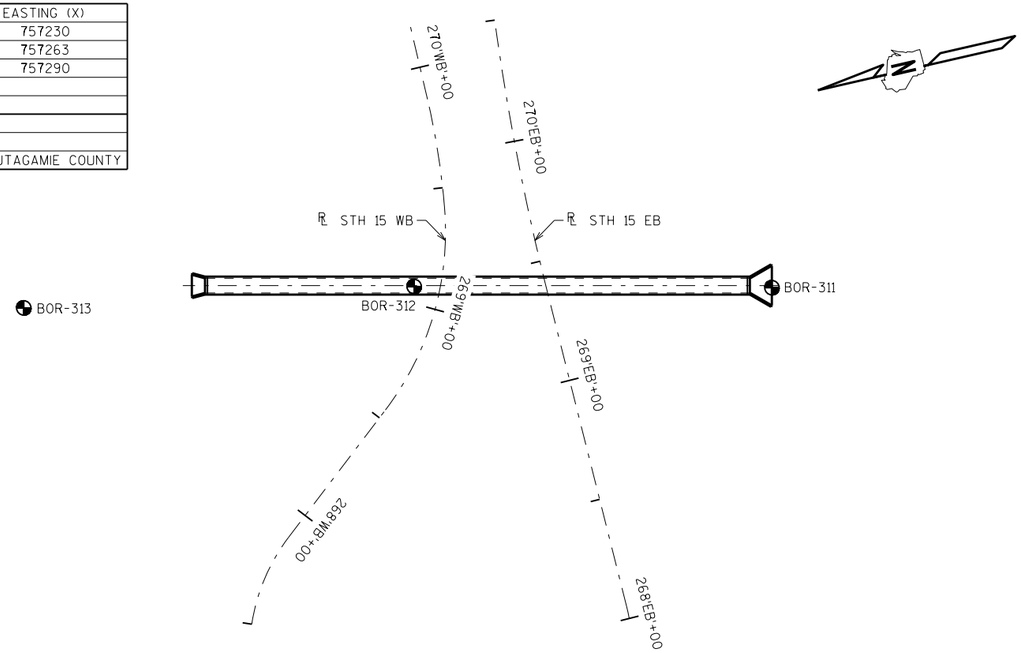
228

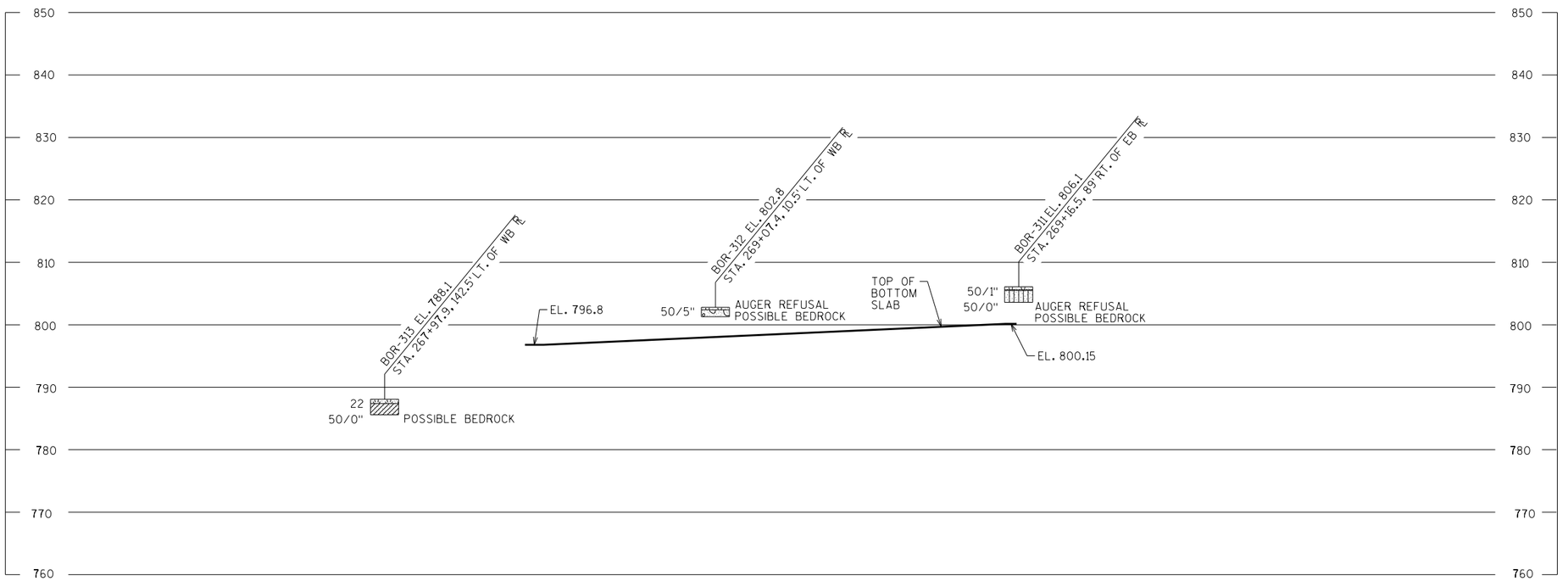
SCALE = 1.00

8

8

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
311	3/28/2014	593525	757230
312	3/28/2014	593667	757263
313	3/28/2014	593824	757290
BORINGS COMPLETED BY: GESTRA			
REPORT COMPLETED BY: CH2M HILL			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) OUTAGAMIE COUNTY			





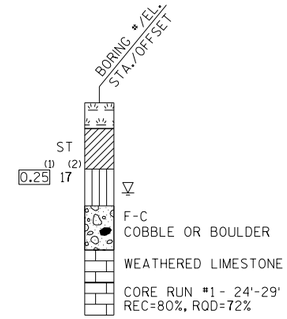
STATE PROJECT NUMBER

1146-75-76

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- ▽ AT TIME OF DRILLING
- ▼ END OF DRILLING
- ▽ AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-44-124

DRAWN BY TLP/DFD | PLANS CK'D. JJS

SUBSURFACE EXPLORATION

SHEET 6

229

SCALE = 30.00

8

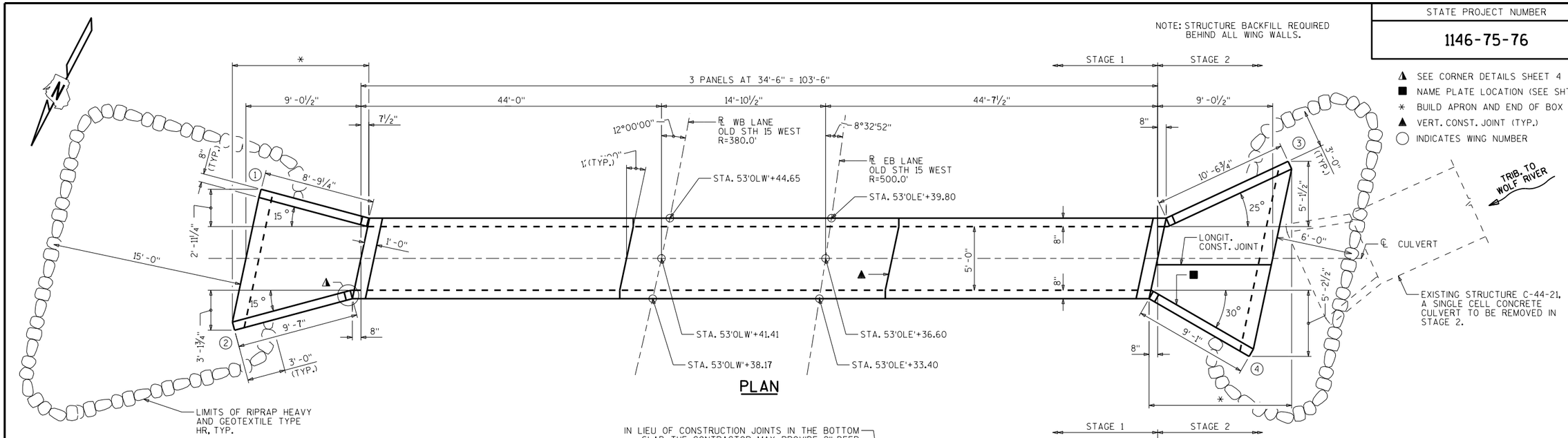
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STATE PROJECT NUMBER

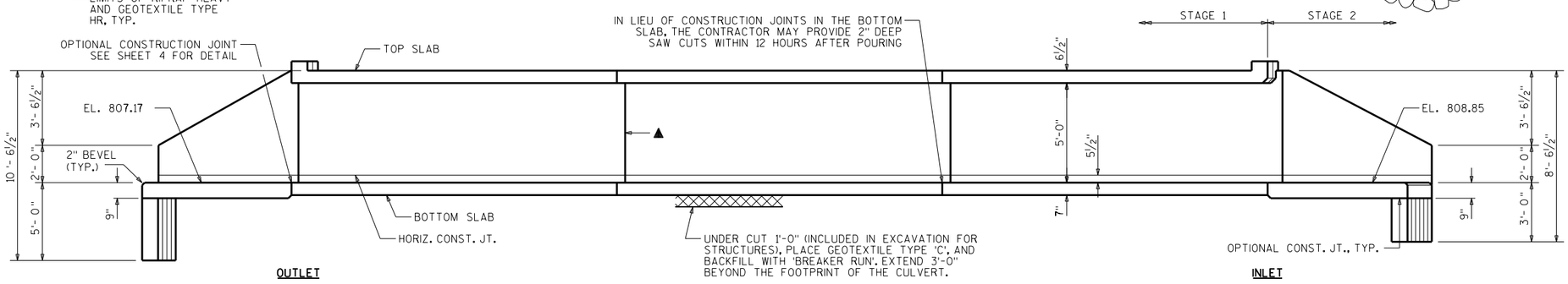
1146-75-76

NOTE: STRUCTURE BACKFILL REQUIRED BEHIND ALL WING WALLS.

▲ SEE CORNER DETAILS SHEET 4
■ NAME PLATE LOCATION (SEE SHT 4)
* BUILD APRON AND END OF BOX LEVEL
▲ VERT. CONST. JOINT (TYP.)
◯ INDICATES WING NUMBER



PLAN



ELEVATION

LIST OF DRAWINGS

1. LAYOUT
2. BOX DETAILS
3. APRON DETAILS
4. DETAILS
5. SUBSURFACE EXPLORATION

DESIGN DATA

LIVE LOAD:
DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF = 1.05
OPERATING RATING FACTOR: RF = 1.35
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 255(KIPS)

EARTHLOAD:
DESIGNED FOR 4.0 TO 6.0 FT. OF FILL.

MATERIAL PROPERTIES:
CONCRETE MASONRY: ——— f'c = 3,500 P.S.I.
BAR STEEL REINFORCEMENT: ——— fy = 60,000 P.S.I.

HYDRAULIC DATA

100 YEAR FREQUENCY
Q_{100} = 155 C.F.S.
VEL. = 10.0 F.P.S.
$HW._{100}$ = EL. 820.29
DRAINAGE AREA = 0.33 SQ. MI.
ROADWAY OVERTOPPING = N/A

2 YEAR FREQUENCY
Q_2 = 18.0 C.F.S.
$HW._2$ = EL. 818.55

TRAFFIC VOLUME

OLD STH 15 WEST
ADT = 8000 (2040)
R.D.S. = 50 M.P.H.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
203.0220	REMOVING STRUCTURE (C-44-21)	EACH	1
206.2001	EXCAVATION FOR STRUCTURES CULVERTS (C-44-126)	EACH	1
210.2500	BACKFILL STRUCTURE TYPE B	TON	960
311.0115	BREAKER RUN	CY	57
504.0100	CONCRETE MASONRY CULVERTS	CY	66
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	7940
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	880
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	17
606.0300	RIPRAP HEAVY	CY	40
645.0105	GEOTEXTILE TYPE C	SY	202
645.0120	GEOTEXTILE TYPE HR	SY	85
	NON-BID ITEMS		
	FILLER	SIZE	¾"

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-44-126" SHALL BE THE EXISTING GROUNDLINE.

ALL VOLUME WHICH CANNOT BE PLACED BEFORE CULVERT CONSTRUCTION AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL WITHIN THE LENGTH OF THE CULVERT INCLUDING THE APRON WING WALLS.

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.

THE CONCRETE IN THE CUTOFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

PLACE 18" (MIN.) WIDE SHEET OF "RUBBERIZED MEMBRANE WATERPROOFING" ON TOP SLAB OVER ALL CONSTRUCTION JOINTS AND EXTEND DOWN TO BOTTOM OF OUTSIDE WALLS.

THE CONTRACTOR MAY FURNISH A PRECAST CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE BOX CULVERT WITH THE ACCEPTANCE OF THE SHOP DRAWINGS BY THE STRUCTURES DESIGN SECTION. THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO PRECAST DETAILS ON CHAPTER 36 STANDARDS OF THE CURRENT WISC. DOT BRIDGE MANUAL. PAYMENT FOR THE PRECAST CULVERT SHALL BE BASED ON THE QUANTITIES AND PRICES BID FOR THE ITEMS LISTED IN THE "TOTAL ESTIMATED QUANTITIES".

THE CONTRACTOR MAY ELECT TO SUBSTITUTE #1 OR #2 CONCRETE COARSE AGGREGATE, SELECT CRUSHED MATERIAL OR OTHER GRANULAR MATERIAL AS APPROVED BY THE FIELD ENGINEER, IN LIEU OF THE BREAKER RUN, TO BE UTILIZED AS A CONSTRUCTION PLATFORM FOR THE BOX. THE CONTRACTOR IS RESPONSIBLE FOR BASE STABILITY WITH ANY SUBSTITUTED MATERIAL.

STRUCTURE DESIGN CONTACTS:
DANIELLE DE TENNIS (608) 266-8689
AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED DMB 08/18/22
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE C-44-126

OLD STH 15 WEST OVER TRIB. TO WOLF RIVER

COUNTY	TOWN
OUTAGAMIE	HORTONIA

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
DFD	LMK	DFD	JJS

LAYOUT

SHEET 1 OF 5

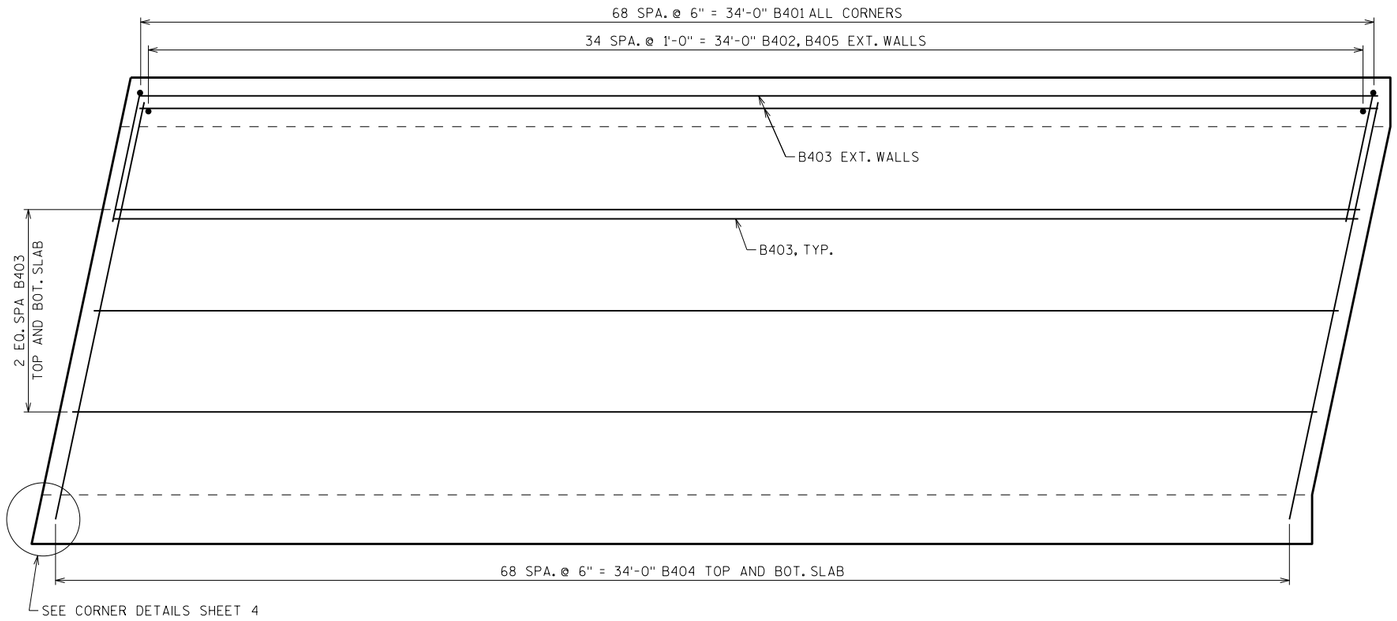
230

I.D. 1146-75-00G DATE: AUG. 2022

SCALE = 4.00

STATE PROJECT NUMBER

1146-75-76



PLAN VIEW OF OUTLET PANEL

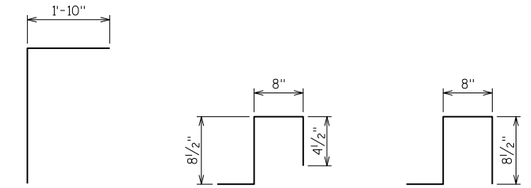
USE IDENTICAL STEEL IN OTHER PANELS
APRON AND HEADER ARE NOT SHOWN

BILL OF BARS

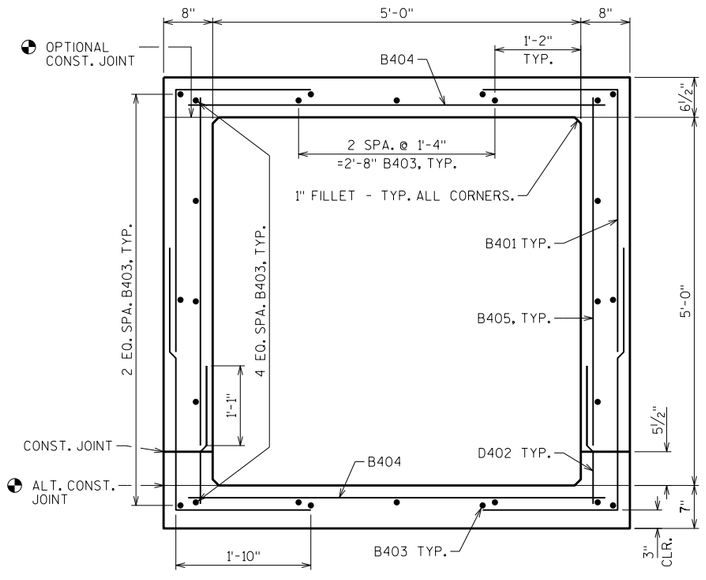
NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B401		828	5'-4"	X		CORNERS
B402		210	1'-11"			EXTERIOR WALL DOWELS
B403		78	34'-0"			TOP AND BOT. SLAB AND WALLS LONGIT.
B404		414	6'-0"			TOP AND BOT. SLAB TRANSVERSE
B405		210	4'-10"			EXTERIOR WALLS VERTICAL
B406		4	6'-0"			HEADERS HORIZONTAL
B307		9	2'-0"	X		HEADER STIRRUP
B308		9	2'-4"	X		HEADER STIRRUP
B509		48	4'-0"			VERTICAL CONST. JOINT

⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

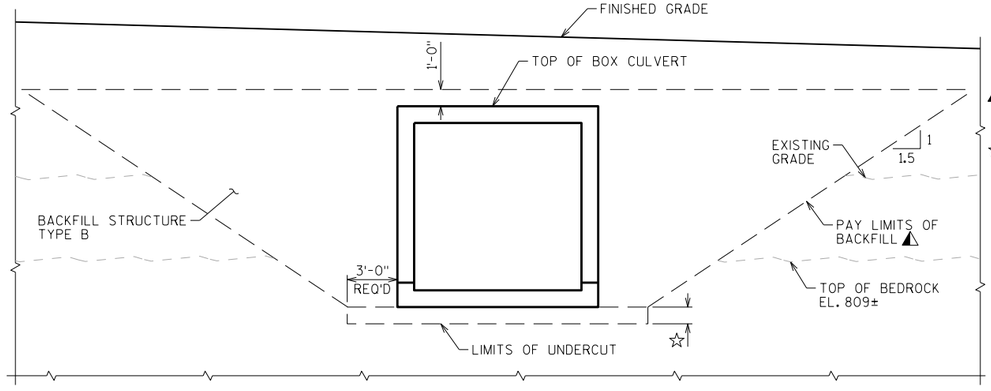


B401 B307 B308



TYPICAL SECTION THRU BOX

OMIT 1" FILLET IF JOINT IS USED

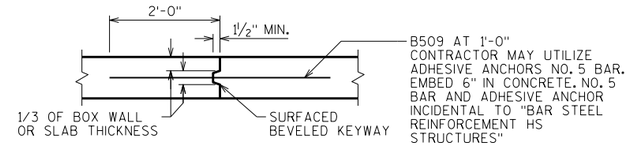


⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

☆ UNDER CUT 1'-0". EXCAVATION FOR UNDER CUT TO BE INCLUDED IN EXCAVATION FOR STRUCTURES. PLACE "GEOTEXTILE TYPE C" AND BACKFILL WITH "BREAKER RUN".

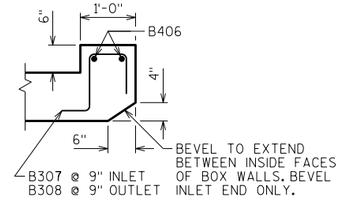
IN LIEU OF USING BREAKER RUN FOR THE BOX CONSTRUCTION PLATFORM, THE CONTRACTOR MAY ELECT TO SUBSTITUTE #1 OR #2 CONCRETE COARSE AGGREGATE, SELECT CRUSHED MATERIAL OR OTHER GRANULAR MATERIAL AS APPROVED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR BASE STABILITY WITH ANY SUBSTITUTED MATERIAL. THE REGION GEOTECHNICAL ENGINEER MAY BE CONTACTED TO DETERMINE IF "OTHER GRANULAR MATERIAL" IS ACCEPTABLE.

TYPICAL SECTION THRU BOX CULVERT



VERTICAL CONSTRUCTION JOINT

2" DEEP SAW CUT WITHIN 12 HOURS AFTER POURING MAY BE USED IN LIEU OF CONST. JT. IN BOTTOM SLAB.



SECTION THRU HEADER

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-44-126

DRAWN BY DFD | PLANS CK'D. JJS

BOX DETAILS

SHEET 2

231

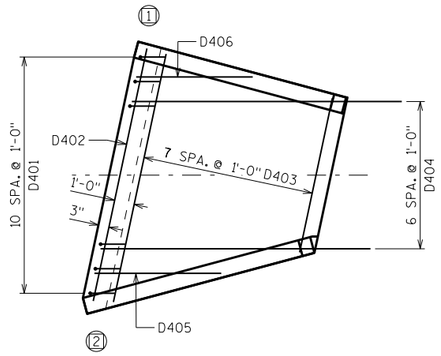
SCALE = 1.00

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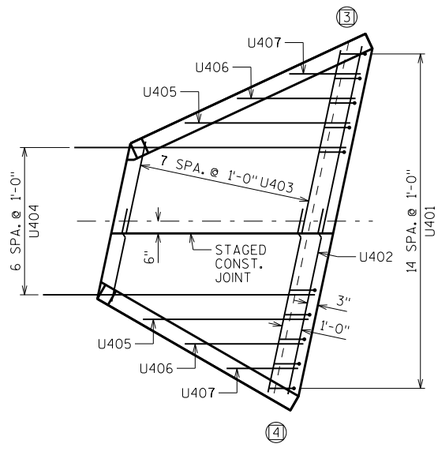
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STATE PROJECT NUMBER

1146-75-76

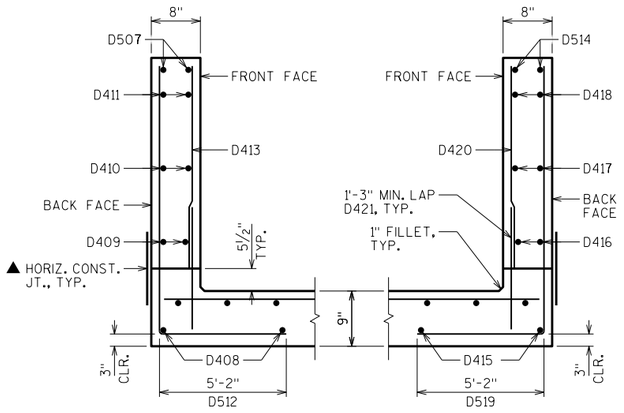


OUTLET APRON PLAN



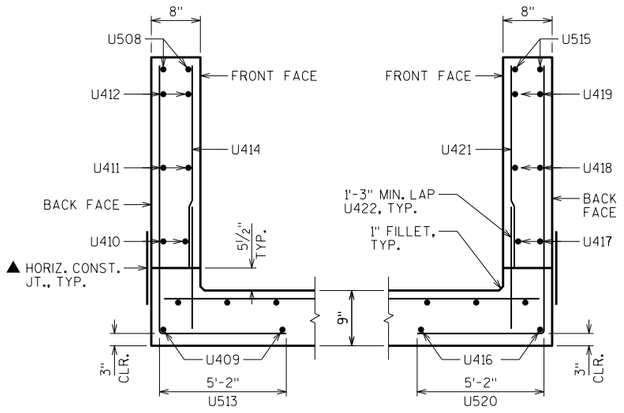
INLET APRON PLAN

◯ INDICATES WING NUMBER



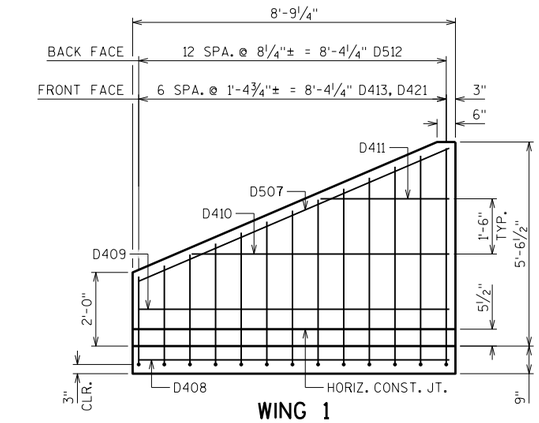
WING 1 SECTION

WING 2 SECTION



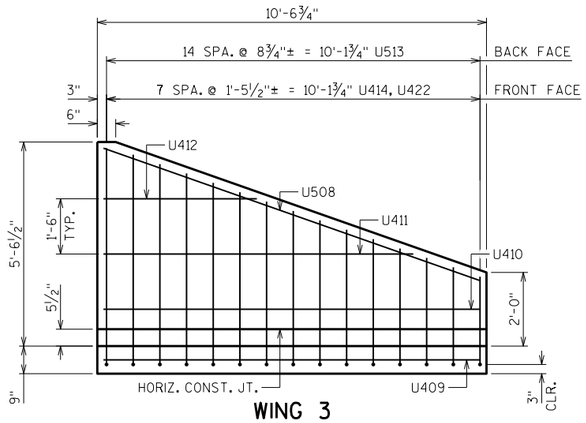
WING 3 SECTION

WING 4 SECTION



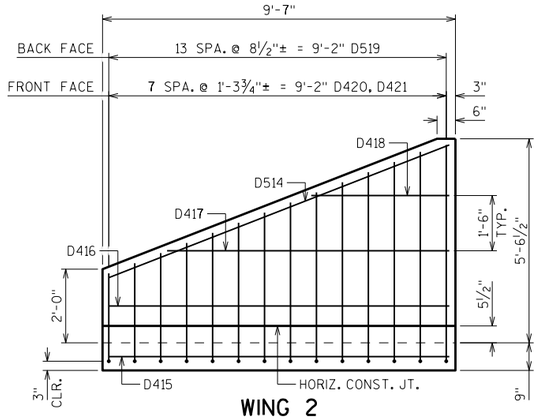
WING 1

SHOWING BACK FACE REINFORCEMENT



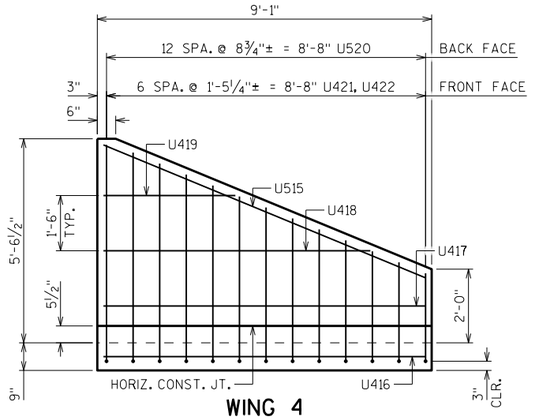
WING 3

SHOWING BACK FACE REINFORCEMENT



WING 2

SHOWING BACK FACE REINFORCEMENT



WING 4

SHOWING BACK FACE REINFORCEMENT

▲ 18" RUBBERIZED MEMBRANE WATERPROOFING, PLACE ALONG HORIZ. CONST. JT. FOR ENTIRE WING LENGTH, TYP.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-44-126

DRAWN BY DFD | PLANS CK'D. JJS

APRON DETAILS

SHEET 3

232

SCALE = 3.00

8

8

STATE PROJECT NUMBER

1146-75-76

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

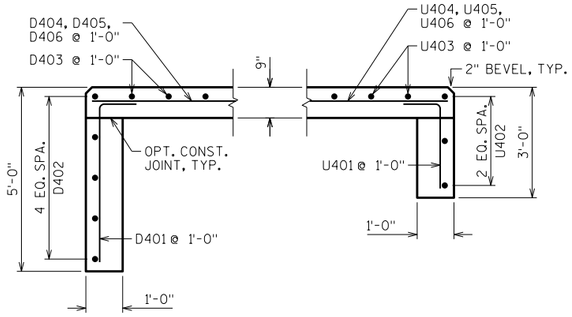
BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
D401		11	5'-6"	X		OUTLET APRON AND CUTOFF WALL VERT.
D402		5	10'-7"			OUTLET APRON AND CUTOFF WALL HORIZ.
D403		8	8'-5"		⚠	OUTLET APRON SLAB HORIZ.
D404		7	11'-0"			OUTLET APRON AND BOX SLAB HORIZ.
D405		1	5'-2"			OUTLET APRON SLAB HORIZ.
D406		1	4'-9"			OUTLET APRON SLAB HORIZ.
D507	X	2	9'-0"			WING 1 HORIZ. TOP BOTH FACES
D408	X	2	8'-5"			WING 1 HORIZ. APRON SLAB
D409	X	2	8'-5"			WING 1 HORIZ. BOTTOM BOTH FACES
D410	X	2	7'-0"			WING 1 HORIZ.
D411	X	2	3'-6"			WING 1 HORIZ.
D512	X	13	9'-3"	X	⚠	WING 1 VERT. BACK FACE
D413	X	7	3'-2"		⚠	WING 1 VERT. FRONT FACE
D514	X	2	9'-10"			WING 2 HORIZ. TOP BOTH FACES
D415	X	2	9'-3"			WING 2 HORIZ. APRON SLAB
D416	X	2	9'-3"			WING 2 HORIZ. BOTTOM BOTH FACES
D417	X	2	7'-8"			WING 2 HORIZ.
D418	X	2	3'-9"			WING 2 HORIZ.
D519	X	14	9'-3"	X	⚠	WING 2 VERT. BACK FACE
D420	X	8	3'-2"		⚠	WING 2 VERT. FRONT FACE
D421	X	15	2'-3"			WINGS 1 & 2 DOWELS FRONT FACE
U401		15	3'-6"	X		INLET APRON AND CUTOFF WALL VERT.
U402		6	7'-9"			INLET APRON AND CUTOFF WALL HORIZ.
U403		16	5'-9"		⚠	INLET APRON SLAB HORIZ.
U404		7	11'-0"			INLET APRON AND BOX SLAB HORIZ.
U405		2	6'-9"			INLET APRON SLAB HORIZ.
U406		2	4'-10"			INLET APRON SLAB HORIZ.
U407		2	2'-11"			INLET APRON SLAB HORIZ.
U508	X	2	10'-9"			WING 3 HORIZ. TOP BOTH FACES
U409	X	2	10'-2"			WING 3 HORIZ. APRON SLAB
U410	X	2	10'-2"			WING 3 HORIZ. BOTTOM BOTH FACES
U411	X	2	8'-5"			WING 3 HORIZ.
U412	X	2	4'-2"			WING 3 HORIZ.
U513	X	15	9'-3"	X	⚠	WING 3 VERT. BACK FACE
U414	X	8	3'-2"		⚠	WING 3 VERT. FRONT FACE
U515	X	2	9'-4"			WING 4 HORIZ. TOP BOTH FACES
U416	X	2	8'-9"			WING 4 HORIZ. APRON SLAB
U417	X	2	8'-9"			WING 4 HORIZ. BOTTOM BOTH FACES
U418	X	2	7'-3"			WING 4 HORIZ.
U419	X	2	3'-7"			WING 4 HORIZ.
U520	X	13	9'-3"	X	⚠	WING 4 VERT. BACK FACE
U421	X	7	3'-2"		⚠	WING 4 VERT. FRONT FACE
U422	X	15	2'-3"			WINGS 3 & 4 DOWELS FRONT FACE

⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

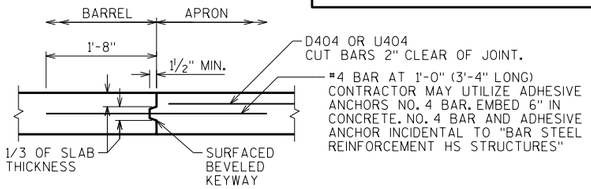
BAR SERIES TABLE

BAR MARK	NO. REQ'D	LENGTH
D403	1 SERIES OF 8	6'-5" TO 10'-4"
D512	1 SERIES OF 13	7'-6" TO 10'-11"
D413	1 SERIES OF 7	1'-5" TO 4'-11"
D519	1 SERIES OF 14	7'-6" TO 10'-11"
D420	1 SERIES OF 8	1'-5" TO 4'-11"
U403	2 SERIES OF 8	3'-10" TO 7'-7"
U513	1 SERIES OF 15	7'-6" TO 10'-11"
U414	1 SERIES OF 8	1'-5" TO 4'-11"
U520	1 SERIES OF 13	7'-6" TO 10'-11"
U421	1 SERIES OF 7	1'-5" TO 4'-11"

BUNDLE AND TAG EACH SERIES SEPARATELY

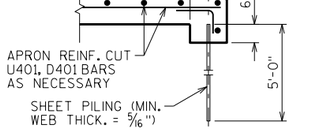


CUT-OFF WALLS



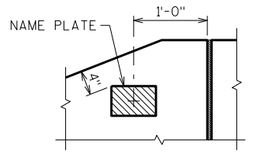
OPTIONAL CONSTRUCTION JOINT

2" DEEP SAW CUT WITHIN 12 HOURS AFTER POURING MAY BE USED IN LIEU OF CONST. JT. IN BOTTOM SLAB.

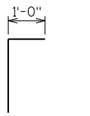


ALTERNATE CUT-OFF WALLS

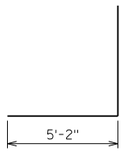
THE ABOVE ALTERNATIVE MAY BE USED IN LIEU OF CAST-IN-PLACE CONCRETE CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONCRETE CUT-OFF WALLS.



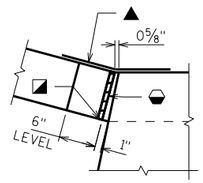
NAME PLATE LOCATION WING 4



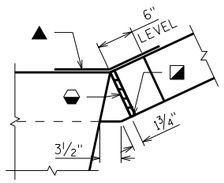
D401, U401



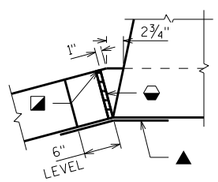
D512, D519,
U513, U520



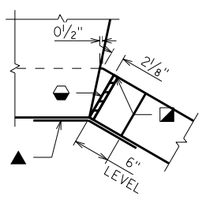
CORNER 1



CORNER 3



CORNER 2



CORNER 4

CORNER DETAILS

◒ 3/4" FILLER, TYP. EXTEND FILLER FROM HORIZ. CONST. JT. TO TOP OF WING.

◪ 1" BEVEL, TYP.

▲ 18" RUBBERIZED MEMBRANE WATERPROOFING. EXTEND FROM HORIZ. CONST. JT. TO TOP OF WALL.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-44-126

DRAWN BY DFD | PLANS CK'D. JJS

DETAILS

SHEET 4

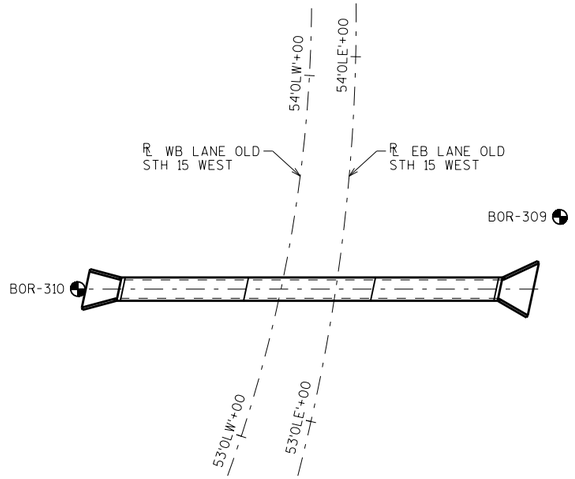
233

SCALE = 1.00

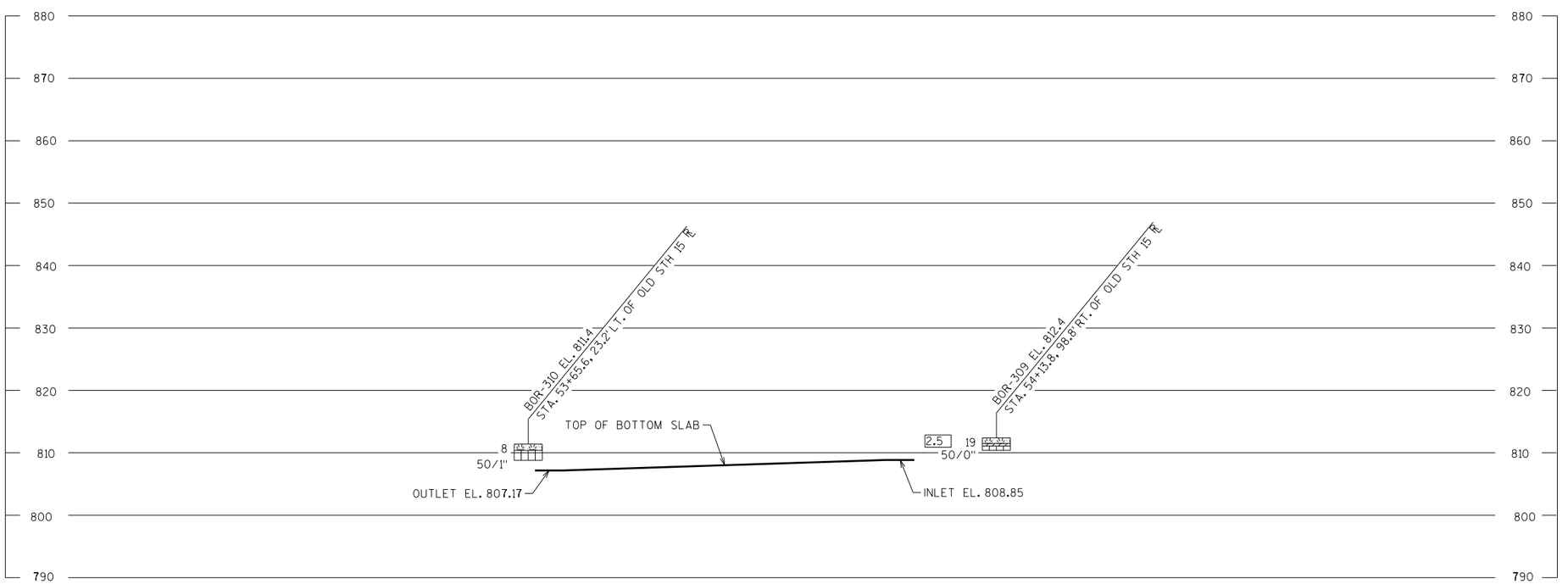
8

8

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
309	3/28/2014	593256	756989
310	3/28/2014	593334	757096
BORINGS COMPLETED BY: GESTRA			
REPORT COMPLETED BY: CH2M HILL			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) OUTAGAMIE COUNTY			







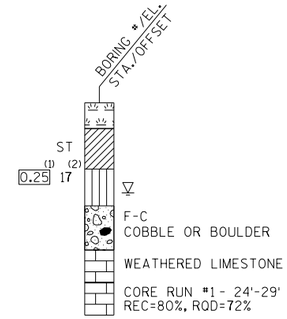
STATE PROJECT NUMBER

1146-75-76

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- AT TIME OF DRILLING
- END OF DRILLING
- AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-44-126

DRAWN BY TLP/DFD | PLANS CK'D. JJS

SUBSURFACE EXPLORATION

SHEET 5

234

SCALE = 20.00

DESIGN DATA

CONTRACTOR DESIGNED OVERHEAD SIGN STRUCTURES SHALL BE DESIGNED ACCORDING TO THE AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS", 1ST EDITION AND INTERIM SPECIFICATIONS, AND THE WISDOT BRIDGE MANUAL.

standard FOUNDATIONs DESIGNED ACCORDING TO THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION.

DEAD LOAD: WT. OF SIGN AND SUPPORTING STRUCTURE.
ICE LOAD: 3 PSF TO ONE FACE OF SIGN & SURFACE OF MEMBERS.
WIND PRESSURE: 115 MPH (3-SEC. GUST SPEED) TO SIGN AREA & EXPOSED MEMBERS. (700 YEAR MEAN RECURRENCE INTERVAL)

WIND COMPONENTS	NORMAL	TRANSVERSE
LOAD CASE 1:	1.00	0.00
LOAD CASE 2:	0.00	1.00
LOAD CASE 3:	0.75	0.75

LOAD COMBINATIONS	
STRENGTH I:	1.25 DC + 1.6 LL
EXTREME I (MAX DC):	1.1 DC + 1.0 W + 1.0 ICE
EXTREME I (MIN DC):	0.9 DC + 1.0 W
SERVICE I:	1.0 DC + 1.0 W
FATIGUE I:	1.0 NWG (NATURAL WIND GUST VIBRATION)
	1.0 TrG (TRUCK INDUCED GUST VIBRATION)
	1.0 GVW (GALLOPING - CANTILEVER ONLY)

MATERIAL PROPERTIES

CONCRETE MASONRY ..... f'c = 3,500 psi

HIGH STRENGTH STEEL REINFORCEMENT, GRADE 60 ..... fy = 60,000 psi

HIGH STRENGTH BOLTS - A325 ..... fy = 92,000 psi

ANCHOR RODS - ASTM F1554 GRADE 55 ..... fy = 55,000 psi

HEAVY HEX NUTS FOR ANCHOR RODS - ASTM A563A

WASHERS FOR ANCHOR RODS - ASTM F436

FOUNDATION DATA

Sign structure foundations are supported on drilled shafts that have been designed for sites where soils exhibit a phi-angle greater than or equal to 24° (granular soils), or a cohesion value greater than or equal to 750 psf (cohesive soils) and a unit weight of 125 pcf. the ground water table for design is assumed to be at a depth of 10'-0" below the ground surface, actual water level at site may vary. The Region Geotechnical Engineer shall visually inspect the subsurface soils during drilling of the shaft hole to confirm these properties prior to placement of the drilled shaft concrete.

TOTAL ESTIMATED QUANTITIES

BID ITEM NO.	BID ITEM	UNIT	S-44-113	S-44-114
531.2036	DRILLING SHAFT 36-INCH	LF	40	----
531.2036	DRILLING SHAFT 36-INCH	LF	----	40
531.5420.01	FOUNDATION SINGLE-SHAFT TYPE TF-II	EA	2	----
531.5420.02	FOUNDATION SINGLE-SHAFT TYPE TF-II	EA	----	2
532.5420.01	TRUSS FULL SPAN 2-CHORD TYPE II	EA	1	----
532.5420.02	TRUSS FULL SPAN 2-CHORD TYPE II	EA	----	1

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALTERNATE DESIGNS ARE NOT ALLOWED.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), XXXX COUNTY ZONE, NAD 83 (1997). ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD 88 (2007).

ALL REINFORCING BARS ARE IN ENGLISH UNITS. THE FIRST DIGIT OF A THREE-DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR-DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

SIGN BRIDGE ID PLAQUES SHALL BE CONSIDERED INCIDENTAL TO THE truss or monotube BID ITEMs FOR EACH APPLICABLE SIGN STRUCTURE IN THE PLAN SET. LOCATE THE ID PLAQUE ON THE FREEWAY SIDE OF THE SUPPORT COLUMN SO THAT IT CAN BE SEEN FROM THE ROADWAY. FABRICATE AND INSTALL THE ID PLAQUE IN ACCORDANCE WITH S.D.D. 12 A 4-3.

UNLESS DETAILED OTHERWISE IN THE PLANS, ALL H.S. BOLTED CONNECTIONS SHALL BE MADE WITH ¾" DIA A325 GALVANIZED BOLTS. FIELD CONNECTIONS SHALL BE INSTALLED WITH DTI WASHERS.

WELDED CONNECTIONS CAN BE USED IN LIEU OF BOLTED CONNECTIONS, IF A TRUSS UNIT CAN BE GALVANIZED IN ONE PIECE.

WELD TEST AS PER AWS D1.1.

SEE SIGN PLATE NO. a4-6, A4-7A & A4-7B OF THE SIGN PLATE MANUAL FOR INSTRUCTIONS ON CENTERING SIGNS VERTICALLY ON THE TRUSS.

SIGNS OR BLANKS SHALL BE INSTALLED ON TRUSS AT TIME OF ERECTION. BLANKS SHALL BE 1/4 THE LENGTH OF THE CANTILEVER SPAN, 2'-0" DEEPER THAN THE C/L TO C/L OF CHORDS, AND SHALL BE CENTERED ON THE BRIDGE. SIGNS SHALL BE AS DESIGNATED ON THE PLANS.

THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION OF THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PER THE REQUIREMENTS IN THE STANDARD SPECIFICATIONS PRIOR TO FABRICATION OF THE STRUCTURE. CONTRACTOR SHALL SHOW SIGNS ON THE SHOP DRAWINGS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DRILLING OR EXCAVATING AND MAINTAINING A STABLE AND OPEN HOLE FOR SUBSEQUENT INSTALLATION OF CONCRETE MASONRY FOR THE DRILLED SHAFTS. PARTIAL OR FULL DEPTH TEMPORARY CASING MAY BE REQUIRED TO MAINTAIN THE STABILITY OF THE EXCAVATED HOLE FOR THE SIGN SUPPORT PRIOR TO FILLING THE HOLE WITH CONCRETE. PERMANENT CASING MADE FROM STEEL OR CORRUGATED METAL PIPE MAY BE USED IN LIEU OF TEMPORARY CASING. TEMPORARY/PERMANENT CASING, IF USED, SHALL BE INCIDENTAL TO THE BID ITEM "DRILLING shaft (dia.)".

structure DATA

SIGN STR	ACTUAL SIGN AREA	ACTUAL SIGN DEPTH	STANDARD type
S-44-113	168.0 SF	7'-6", 9'-0"	TF-II
S-44-114	168.5 SF	8'-6", 7'-6"	TF-II

LIST OF DRAWINGS

1. GENERAL NOTES & DESIGN DATA
2. LAYOUT S-44-113
3. LAYOUT S-44-114

LIST OF OSS STANDARD DESIGN DRAWINGS

I. MONOTUBE & 2-CHORD TRUSS details 1
II. MONOTUBE & 2-CHORD TRUSS details 2
III. MONOTUBE & 2-CHORD TRUSS electrical details
IV. MONOTUBE & 2-CHORD TRUSS FOUNDATIONS

STATE PROJECT NUMBER

1146-75-76

TRAFFIC VOLUME

A.D.T. (2043) = 21,650
R.D.S. = 60 MPH

PDS DESIGN CONTACT
ERIC SIKORSKI (920) 492-4161

STRUCTURE DESIGN CONTACT
AARON BONK (608) 261-0261

THESE ARE STANDARD DESIGN PLANS, DEVELOPED AND MAINTAINED BY THE WISCONSIN DEPARTMENT OF TRANSPORTATION. THE DESIGNER CERTIFIES THAT THE DESIGN AND PLAN DETAILS CHOSEN ARE CONSISTENT WITH THE GUIDANCE PROVIDED IN THE CURRENT WISCONSIN BRIDGE MANUAL CHAPTER 39.

PE STAMP

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED SDR 09/27/22
CHIEF STRUCTURES DESIGN ENGINEER DATE

MONOTUBE AND 2-CHORD TRUSS PLANS

STH 15

COUNTY: OUTAGAMIE | GREENVILLE

DESIGN SPEC.
AASHTO LRFDLTS-1 w/Interims

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
ETS	bos	ETS	

general notes & design data

SHEET 1 OF 6
235

I.D. 1146-75-76

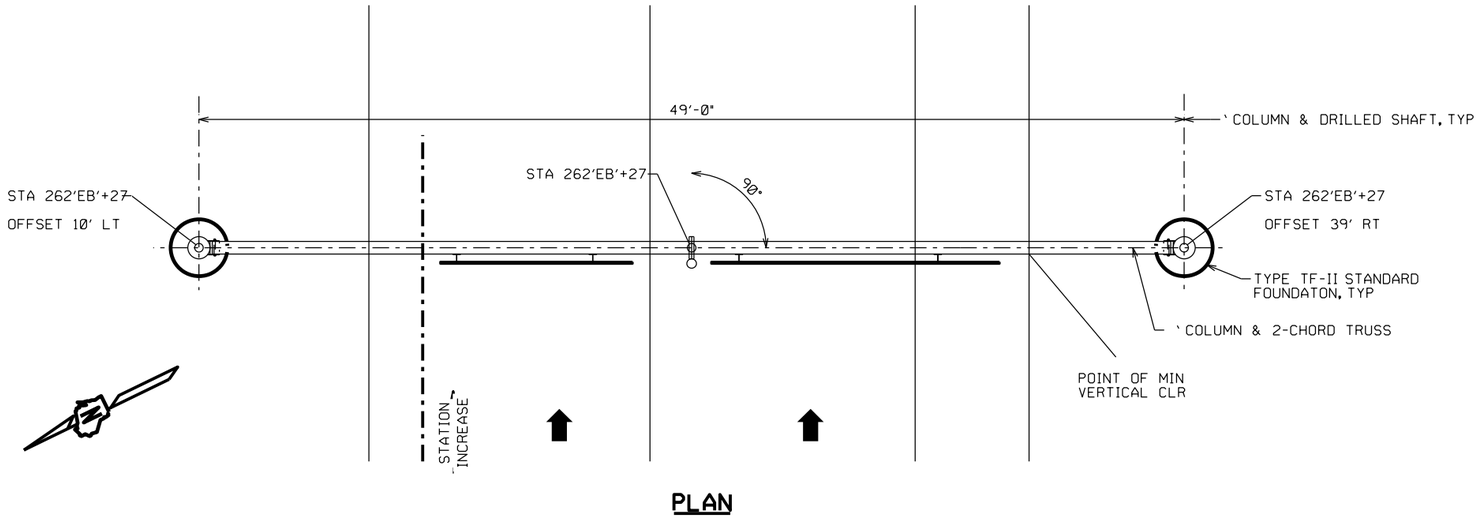
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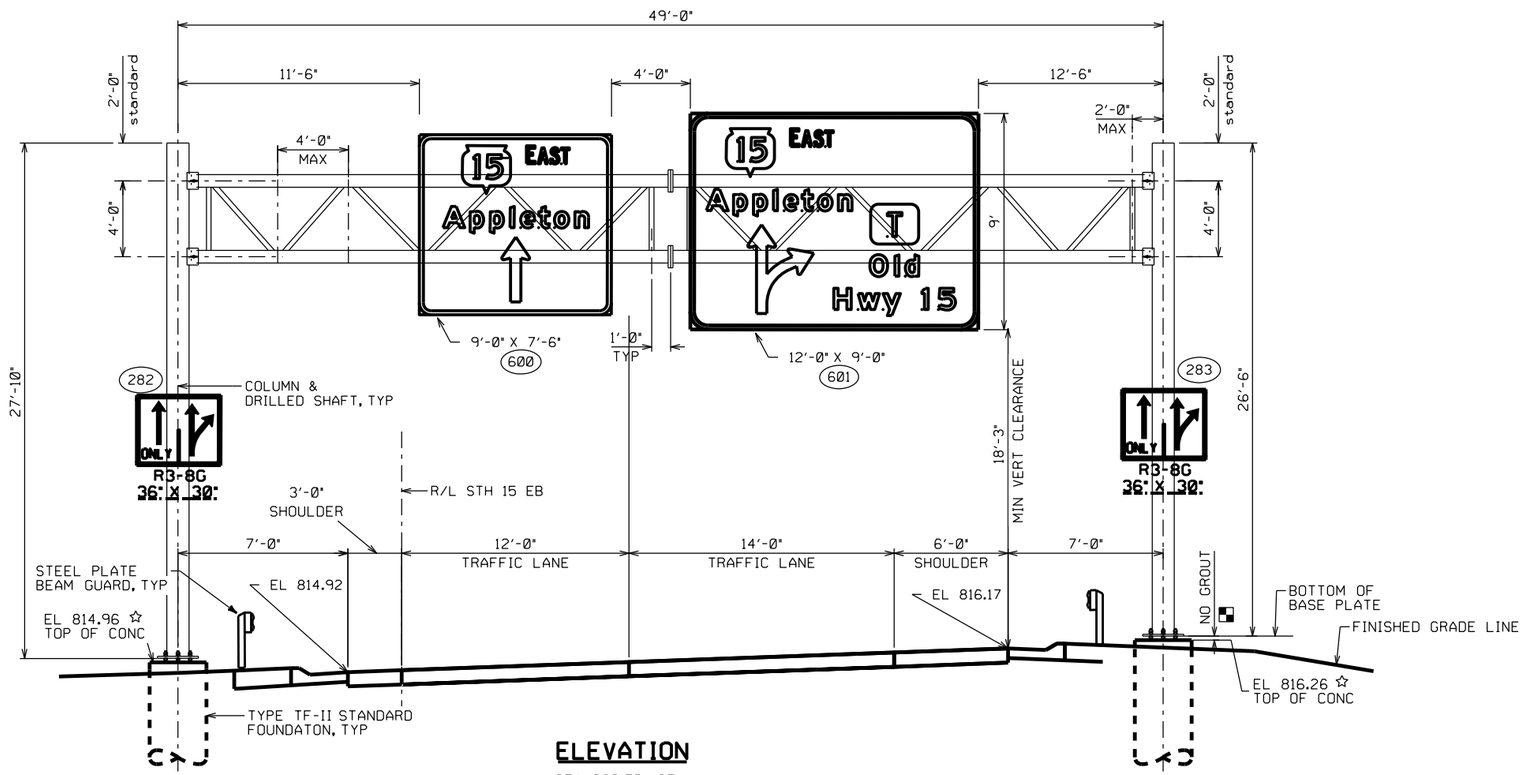
8

8

STATE PROJECT NUMBER
1146-75-76



PLAN



ELEVATION

STA 262'EB'+27
(LOOKING UPSTATION AT FRONT OF SIGN)

NOTE

POINT OF MIN VERTICAL CLEARANCE
STA 627+27, 32.00' RT
EL 816.27

LEGEND

☆ ELEVATIONS GIVEN ALONG CL 2-CHORD TRUSS

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

■ standoff dimension is assumed to be 2½", but is a maximum of 2 x anchor rod diameter. see foundation details sheet and shop drawings for more information.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-44-113

DRAWN BY ETS | PLANS CK'D.

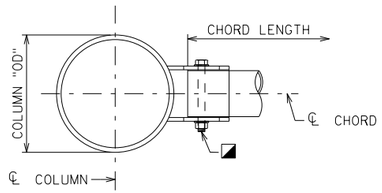
GENERAL LAYOUT S-44-113

SHEET 2 OF 6
236

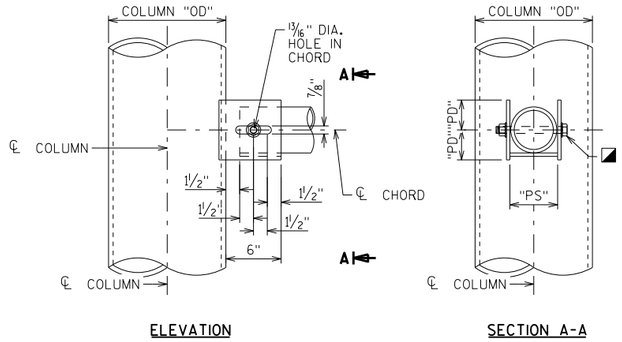
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STATE PROJECT NUMBER

STANDARD



PLAN



ELEVATION

SECTION A-A

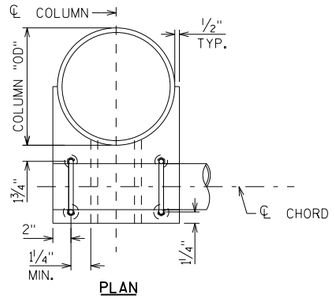
FULL SPAN SADDLE CONNECTION

PREFERRED

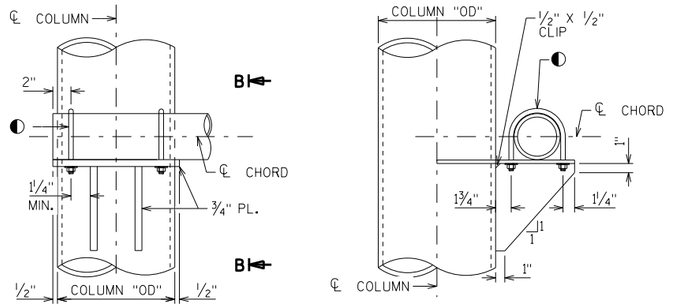
¾" GALVANIZED A325 OR A449 HEAVY HEX BOLT, NUT, WASHER

"PD" = (CHORD "OD")/2 + ¾"

"PS" = CHORD "OD" + 3/16"



PLAN



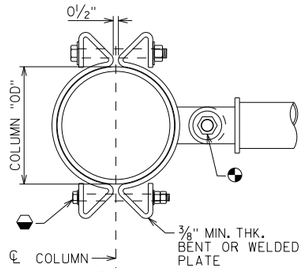
ELEVATION

SECTION B-B

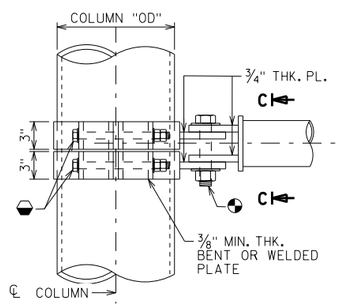
FULL SPAN STIFFENED BEARING CONNECTION

ALTERNATE 1

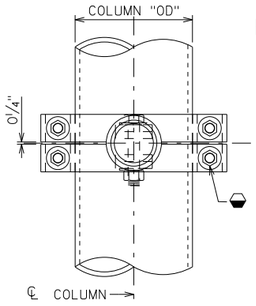
◐ (2) - ½" MIN. GALVANIZED U-BOLT, NUT, WASHER AND LOCK WASHER



PLAN



ELEVATION



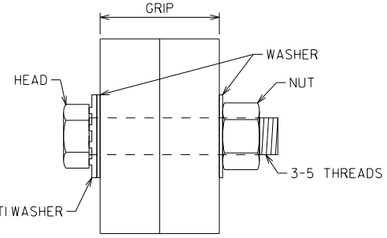
SECTION C-C

FULL SPAN CLAMP CONNECTION

ALTERNATE 2 - TAPERED COLUMNS ONLY

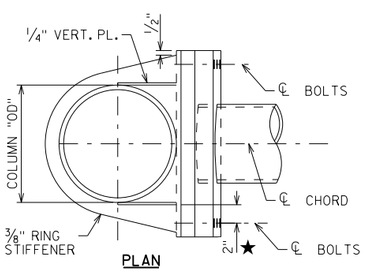
◓ 1¼" GALVANIZED A325 HEAVY HEX BOLT, NUT AND WASHER

⬣ 1" GALVANIZED A449 HEAVY HEX BOLT, NUT AND WASHER

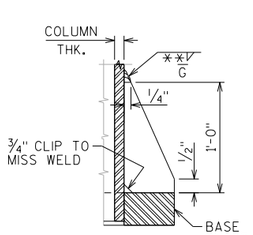


RECOMMENDED BOLT DETAIL WITH DTI

NUT IS THE TURNED ELEMENT

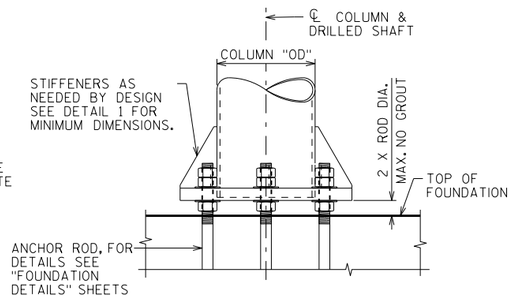


PLAN



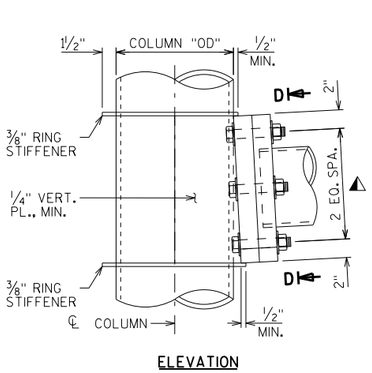
DETAIL 1

** SIZE AS NEEDED

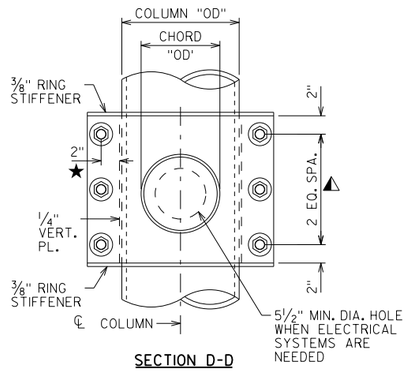


BASE PLATE & COLUMN DETAIL

LOOKING AT FRONT FACE OF STRUCTURE



ELEVATION

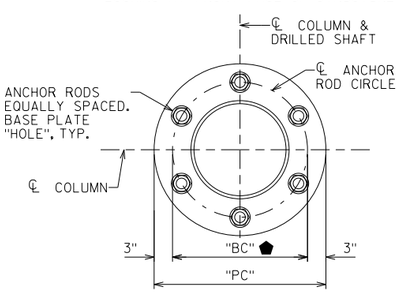


SECTION D-D

CANTILEVER POST TO CHORD CONNECTION

◭ MIN. CONNECTION = (6) - 1" GALVANIZED F3125 GRADE A325 BOLTS, NUT, WASHER AND DTI

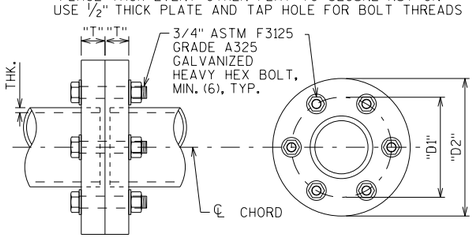
★ MIN. DIMENSION MEASURED FROM EXT. FACE OF VERT. PLATE



BASE PLATE

PLAN

⬟ "BC" = POLE OD + 6"

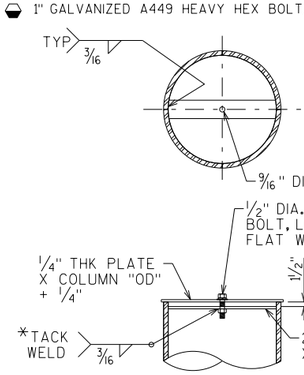


CHORD SPLICE DETAIL

"D1" = CHORD "OD" + 3"

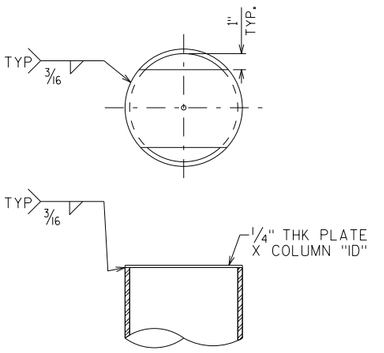
"D2" = CHORD "OD" + 6"

"T" = BY DESIGN



COLUMN/CHORD CAP DETAIL

* PLACE TACK EVERY OTHER FLAT TO SECURE NUT OR USE ½" THICK PLATE AND TAP HOLE FOR BOLT THREADS



CHORD CAP DETAIL

NOTES:

MINIMUM VALUES SHOWN

ALL CONNETIONS ARE TO BE DESIGNED FOR ACTUAL STRUCTURE LOADS.

NO.	DATE	REVISION	BY

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STRUCTURES DESIGN SECTION

UPDATED: MARCH 2021

DRAWN BY: BOS | PLANS CK'D.: BOS

MONOTUBE & 2-CHORD TRUSS DETAILS 1

SHEET 1 OF IV

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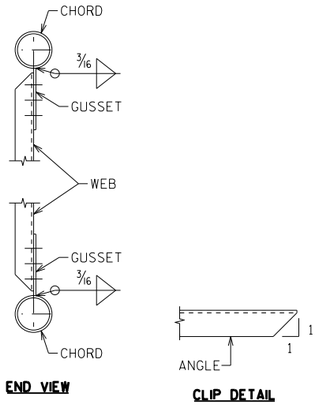
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8

SCALE = 1.00

STATE PROJECT NUMBER

STANDARD

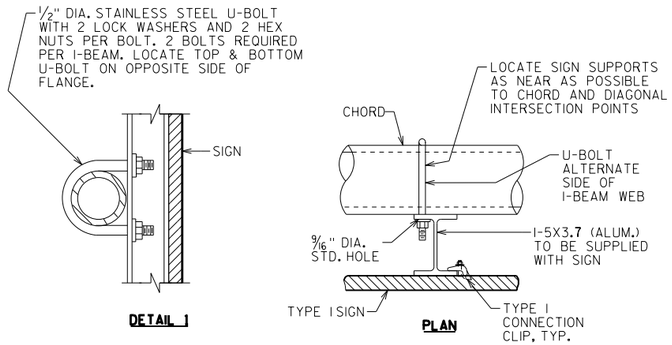


END VIEW

CLIP DETAIL

TRUSS CONNECTION DETAILS

BOLTED CONNECTIONS SHOWN, NUMBER OF BOLTS BY DESIGN
WELDED CONNECTIONS SIMILAR



DETAIL 1

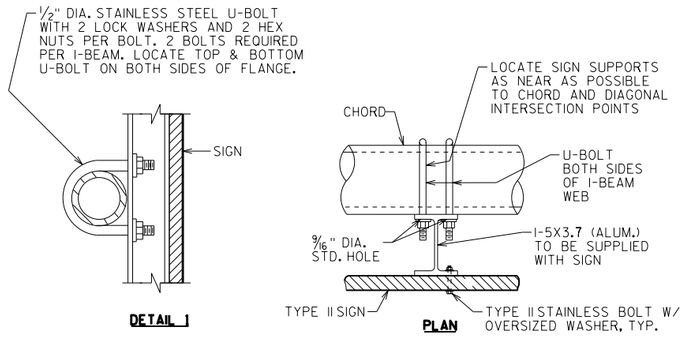
PLAN

2-CHORD TRUSS SIGN CONNECTION

SEE SIGN PLATE MANUAL A4-7A FOR DETAILS

ALUMINUM I-5X3.7 I-BEAMS ARE TO BE SUPPLIED WITH THE SIGN PANEL

HARDWARE TO BE SUPPLIED BY THE CONTRACTOR



DETAIL 1

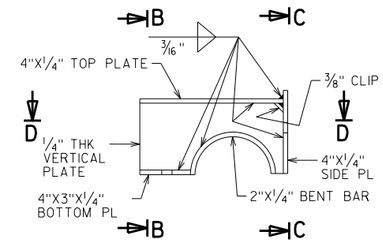
PLAN

MONOTUBE SIGN CONNECTION

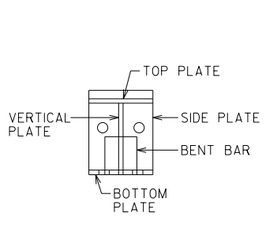
SEE SIGN PLATE MANUAL A4-7B FOR DETAILS

ALUMINUM I-5X3.7 I-BEAMS ARE TO BE SUPPLIED WITH THE SIGN PANEL

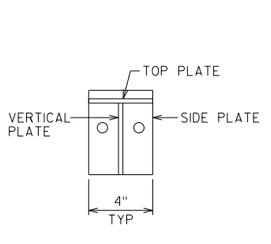
HARDWARE TO BE SUPPLIED BY THE CONTRACTOR



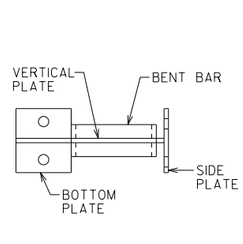
ELEVATION



SECTION B-B



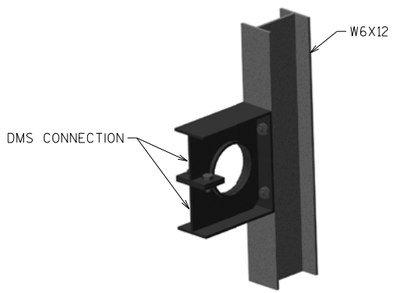
SECTION C-C



SECTION D-D

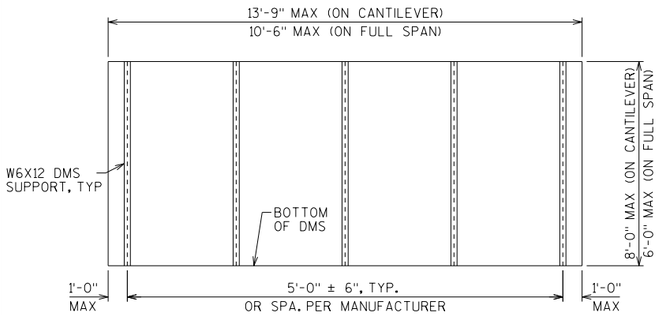
DMS WELDED PLATE CONNECTION DETAILS

TOP PLATE CLAMP SHOWN
BOTTOM PLATE CLAMP SIMILAR



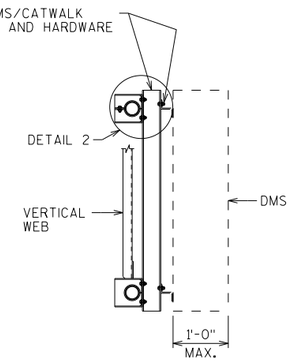
3-D VIEW DMS CONNECTION

CHORD NOT SHOWN FOR CLARITY



DMS MOUNTING POST SPACING DETAIL

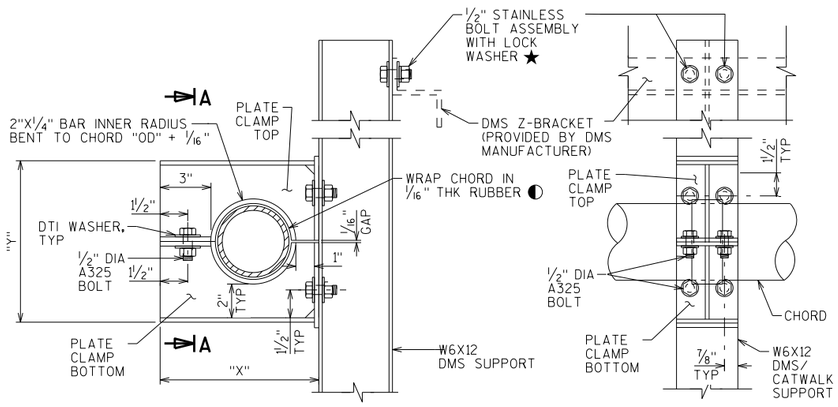
POST SPACING MAY BE ADJUSTED AS REQUIRED IF CONFLICT WITH TRUSS IS ENCOUNTERED.



SECTION THRU TRUSS

FOR DMS/CATWALK CONNECTION

★ W6X12 SUPPORTS AND HARDWARE ARE TO BE SUPPLIED BY THE CONTRACTOR. 1/2" STAINLESS BOLT, NUT, WASHER AND LOCK WASHER REQUIRED, 4 PER W6X12.



DETAIL 2

SECTION A-A

CHORD OUTER DIA	"X"	"Y"
"OD"	"OD"+4 13/16"	"OD"+5 1/16"

TYPICAL DMS CONNECTION

◐ NEOPRENE, GRADE 45±5, OTHERWISE MEETING THE REQUIREMENTS OF STD SPEC 506.2.6.1

NO.	DATE	REVISION	BY

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STRUCTURES DESIGN SECTION

UPDATED: APRIL 2021

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MONOTUBE & 2-CHORD TRUSS DETAILS 2

SHEET 11 OF IV

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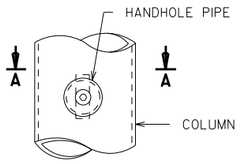
SCALE = 2.00

8

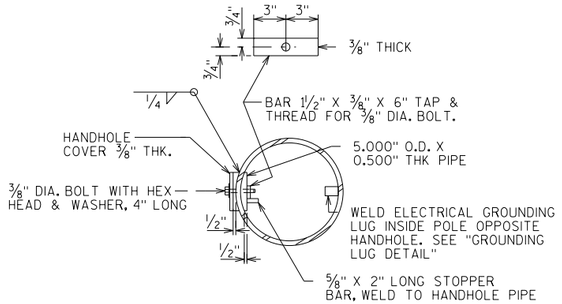
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STATE PROJECT NUMBER

STANDARD



HANDHOLE DETAILS

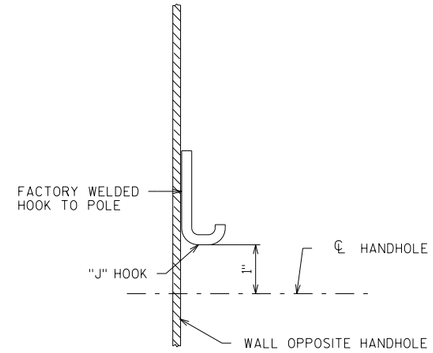


SECTION A-A

HANDHOLE NOTES

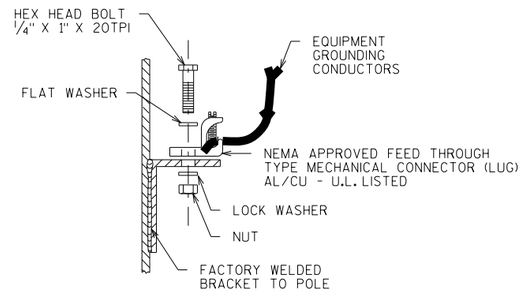
HANDHOLES SHALL BE LOCATED IN ONE COLUMN OF THE SIGN STRUCTURE IF ELECTRICALLY OPERATED DEVICES ARE INSTALLED ON/IN THE STRUCTURE. COLUMNS WITH HANDHOLES SHALL BE NEAR THE ELECTRICAL SERVICE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE ELECTRICAL SERVICE ENTRANCE WITH THE REGION TRAFFIC SECTION PRIOR TO FABRICATION OF THE SIGN COLUMNS AND MEMBERS. CONDUIT (AS REQ'D.) SHALL BE LOCATED, PLACED AND SIZED AS SHOWN ON THE ELECTRICAL PLAN DETAIL SHEETS.

UNLESS NOTED OTHERWISE, ALL HANDHOLE ELEMENTS TO BE GALVANIZED PER THE WISDOT STANDARD SPECIFICATIONS.



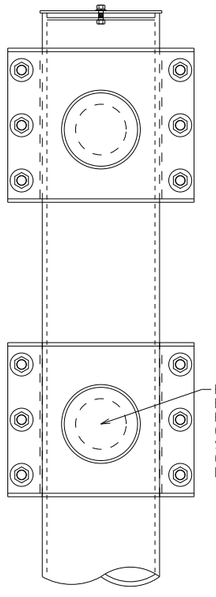
TYPICAL "J" HOOK LOCATION

THE "J" HOOK SHALL BE FACTORY WELDED TO THE INSIDE OF ALL COLUMNS CONTAINING ELECTRICAL WIRING. THE "J" HOOK SHALL BE ATTACHED ABOVE THE CENTERLINE OF THE UPPER HANDHOLE AND MOUNTED DIRECTLY OPPOSITE THE HANDHOLE AS SHOWN IN THE DRAWING.

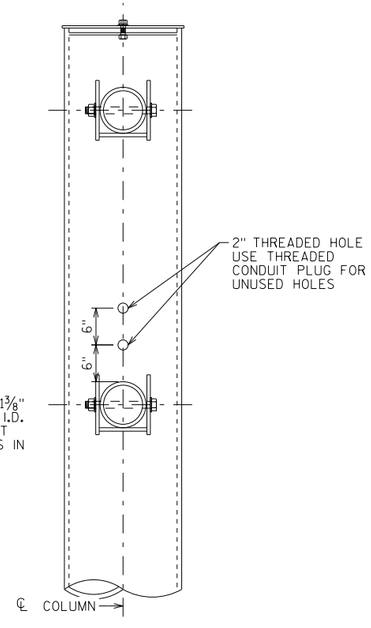


GROUNDING LUG DETAIL

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



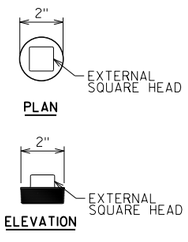
2-CHORD CANTILEVER



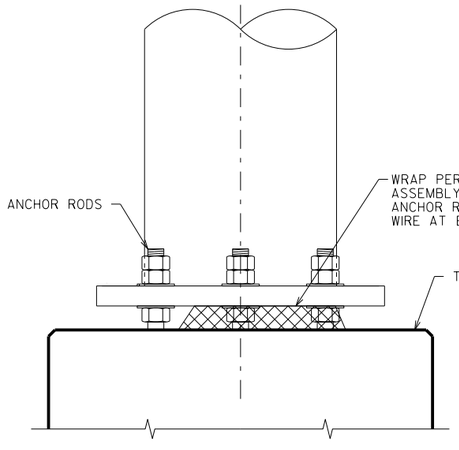
2-CHORD FULL SPAN

SADDLE CONNECTIONS SHOWN, BEARING AND CLAMP CONNECTIONS SIMILAR

CONDUIT HOLE LOCATIONS



CONDUIT PLUG DETAILS



RODENT SCREEN

(ONLY REQ'D. WHEN ELECTRICAL DEVICES ARE INSTALLED)

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DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

UPDATED: MARCH 2021

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MONOTUBE & 2-CHORD TRUSS ELECTRICAL DETAILS

SHEET III OF IV

239

SCALE = 1.00

8

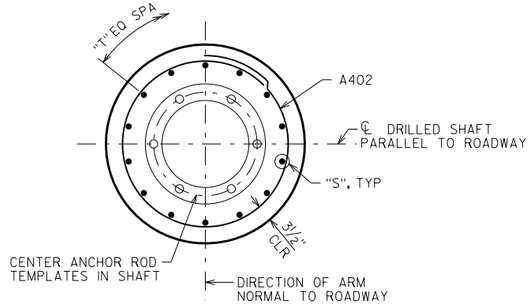
8

STATE PROJECT NUMBER

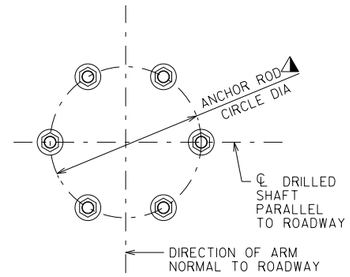
STANDARD

FOUNDATION & REINFORCING DATA

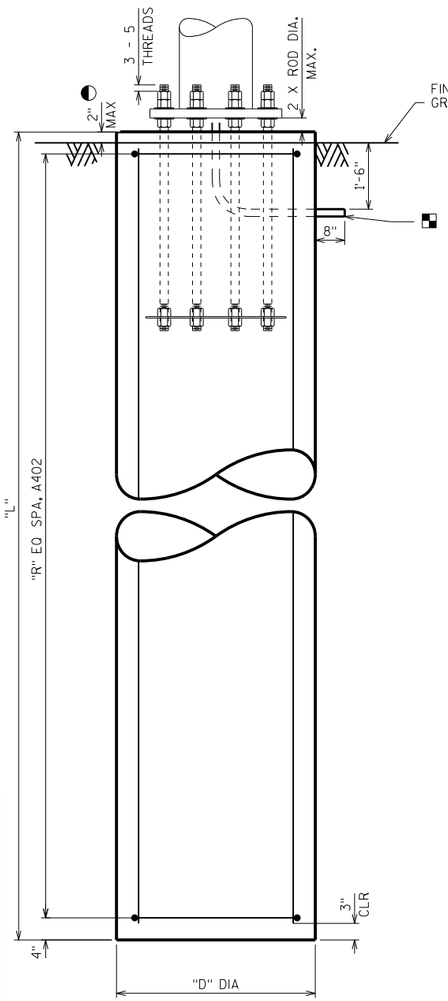
STANDARD FOUNDATION TYPE	SHAFT VARIABLES					
	"D"	"L"	"R"	"S"	"T"	"BC" MAX
MFI	2'-0"	12'-0"	12	A801	6	12"
MFII	2'-6"	13'-0"	13	A801	10	17"
MCI/MCII/TFI	2'-6"	17'-0"	17	A801	10	17"
TCI	3'-0"	18'-0"	18	A801	14	22"
TFII	3'-0"	20'-0"	20	A801	14	22"
MCIII/TCII/TFIII	3'-6"	18'-0"	18	A901	14	28"
MCIV/TFIV	3'-6"	23'-0"	23	A901	14	28"
TCIII	4'-0"	23'-0"	23	A1001	14	34"
TCIV	4'-0"	28'-0"	28	A1001	14	34"



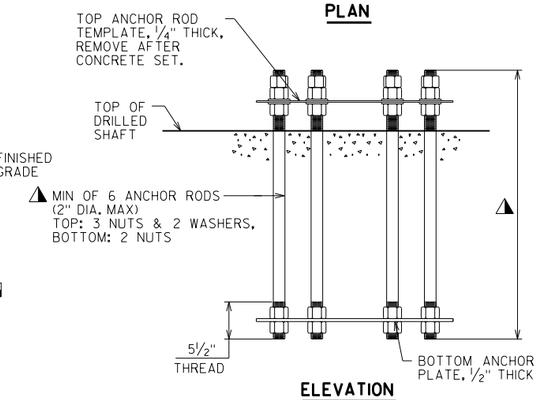
PLAN



PLAN



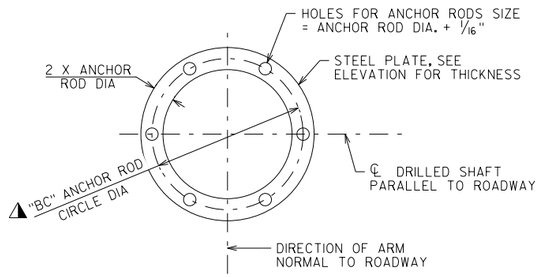
ELEVATION



ELEVATION

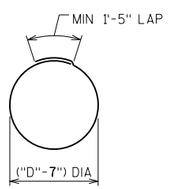
ANCHOR ROD ASSEMBLY DETAILS

⚠ ANCHOR ROD NUMBER, DIAMETER, LENGTH & ORIENTATION AS SHOWN ON FABRICATION DRAWING.



ANCHOR PLATE/TOP TEMPLATE

PLAN



A402

NOTE:
THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BILL OF BARS - STANDARD FOUNDATIONS

STANDARD FOUNDATION MFI

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		6	11'-7"			DRILLED SHAFT - VERTICAL
A402		13	5'-10"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION MFII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		10	12'-7"			DRILLED SHAFT - VERTICAL
A402		14	7'-5"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION MCI/MCII/TFI

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		10	16'-7"			DRILLED SHAFT - VERTICAL
A402		18	7'-5"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION TCI

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		14	17'-7"			DRILLED SHAFT - VERTICAL
A402		19	9'-0"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION TFII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		14	19'-7"			DRILLED SHAFT - VERTICAL
A402		21	9'-0"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION MCIII/TCII/TFIII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A901		14	17'-7"			DRILLED SHAFT - VERTICAL
A402		19	10'-6"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION MCIV/TFIV

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A901		14	22'-7"			DRILLED SHAFT - VERTICAL
A402		24	10'-6"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION TCIII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A1001		14	22'-7"			DRILLED SHAFT - VERTICAL
A402		24	12'-2"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION TCIV

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A1001		14	27'-7"			DRILLED SHAFT - VERTICAL
A402		29	12'-2"	X		DRILLED SHAFT - HORIZONTAL

ESTIMATED QUANTITIES - FOUNDATIONS

STANDARD FOUNDATION TYPE	CONCRETE MASONRY (CY)	STEEL REINFORCEMENT HS (LBS)	FOUNDATION DRILLING (LF)				
			24" DIA.	30" DIA.	36" DIA.	42" DIA.	48" DIA.
MFI	2	240	12				
MFII	3	410		13			
MCI/MCII/TFI	4	540		17			
TCI	5	780			18		
TFII	6	860			20		
MCIII/TCII/TFIII	7	970				18	
MCIV/TFIV	9	1,250				23	
TCIII	11	1,560					23
TCIV	13	1,900					28

✳✳ QUANTITIES ARE FOR INFORMATION ONLY AND ARE BASED ON STANDARD STRUCTURE DIMENSIONS

NOTES

CENTER ANCHOR ROD ASSEMBLY ON DRILLED SHAFT AND MAKE SURE IT IS PLUMB. MAINTAIN ANCHOR ROD PROJECTION ABOVE FOOTING AS DETAILED. ANCHOR ROD ASSEMBLY SHALL BE RIGIDLY SECURED IN POSITION DURING AND AFTER CONCRETE PLACEMENT. DO NOT WELD THE ANCHOR RODS.

◐ FOR OVERHEAD SIGN STRUCTURES THAT ARE INSTALLED ADJACENT TO SIDEWALKS, THE TOP OF THE SHAFT SHALL BE POURED FLUSH WITH THE FINISHED GRADE.

◪ 2" DIA NONMETALLIC CONDUITS, INSTALL ONLY WITH DMS. EXTEND CONDUITS AS SHOWN AND CAP OR SEAL EACH END WITH A SUITABLE REMOVABLE PLUG. PLACE CONDUITS UNDER COLUMN ADJACENT TO THE DMS. CONDUITS INCIDENTAL TO THE FOUNDATION BID ITEMS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

UPDATED: MARCH 2021

DRAWN BY BOS | PLANS CK'D. BOS

MONOTUBE & 2-CHORD TRUSS FOUNDATIONS

SHEET IV OF IV

240

SCALE = 1.67

8

8

STH 15 STA 256+00 - RAB

STATION	Real Station	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)	
			Cut	Fill	EBS	Cut	Fill
256+00(1)	25600.00	0.00	231.40	975.24	0.00	0	0
256+50(1)	25650.00	50.00	241.52	947.22	0.00	438	1,780
257+00(1)	25700.00	50.00	194.00	1028.22	0.00	403	1,829
257+50(1)	25750.00	50.00	167.36	1104.66	0.00	335	1,975
258+00(1)	25800.00	50.00	165.93	1154.47	0.00	309	2,092
258+50(1)	25850.00	50.00	131.08	1151.47	0.00	275	2,135
259+00(1)	25900.00	50.00	112.61	1230.45	0.00	226	2,205
259+50(1)	25950.00	50.00	121.67	1286.28	0.00	217	2,330
260+00(1)	26000.00	50.00	66.25	1434.84	0.00	174	2,520
260+50(1)	26050.00	50.00	25.31	1816.07	0.00	85	3,010
261+00(1)	26100.00	50.00	9.58	2036.13	0.00	32	3,567
261+50(1)	26150.00	50.00	13.33	2135.84	0.00	21	3,863
262+00(1)	26200.00	50.00	12.37	2151.74	0.00	24	3,970
262+50(1)	26250.00	50.00	18.58	2279.26	0.00	29	4,103
263+00(1)	26300.00	50.00	26.70	2123.64	0.00	42	4,077
263+50(1)	26350.00	50.00	26.46	1883.00	0.00	49	3,710
264+00(1)	26400.00	50.00	21.01	1783.62	0.00	44	3,395
264+50(1)	26450.00	50.00	8.44	1790.42	0.00	27	3,309
265+00(1)	26500.00	50.00	7.21	1618.88	0.00	14	3,157
265+50(1)	26550.00	50.00	9.25	1520.53	0.00	15	2,907
266+00(1)	26600.00	50.00	5.29	1744.46	0.00	13	3,023
266+50(1)	26650.00	50.00	0.00	601.12	0.00	5	2,172
					TOTAl	2,777	61,128

STH 15 / CTH T RAB

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill
10+00	1000.00	0.00	0.00	1590.81	0.00	0	0
10+50	1050.00	50.00	0.00	1415.33	0.00	0	2,783
11+00	1100.00	50.00	7.60	2430.63	0.00	7	3,561
11+50	1150.00	50.00	0.00	2640.14	0.00	7	4,695
12+00	1200.00	50.00	0.00	2314.56	0.00	0	4,588
12+13.63	1213.63	13.63	0.00	1334.33	0.00	0	921
12+50	1250.00	36.37	0.00	1206.67	0.00	0	1,712
13+00	1300.00	50.00	0.00	1624.83	0.00	0	2,622
13+50	1350.00	50.00	0.00	1275.84	0.00	0	2,686
14+00	1400.00	50.00	2.47	1918.35	0.00	2	2,958
14+27.25	1427.25	27.25	0.00	1590.84	0.00	1	1,771
				TOTAl		18	28,296

STH 15 / CTH T RAB – WCL RR

STATION	Real Station	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)	
			Cut	Fill	EBS	Cut	Fill
269+00	26900.00	0.00	0.00	1069.56	0.00	0	0
269+50	26950.00	50.00	131.85	3395.35	0.00	122	4,134
270+00	27000.00	50.00	93.06	3104.11	0.00	208	6,018
270+18.93	27018.93	18.93	78.49	2814.97	0.00	60	2,075
270+50	27050.00	31.07	54.17	2831.73	0.00	76	3,249
271+00	27100.00	50.00	27.08	3741.10	0.00	75	6,086
271+39.63	27139.63	39.63	15.70	4131.62	0.00	31	5,778
271+50	27150.00	10.37	12.66	4207.89	0.00	5	1,602
272+00	27200.00	50.00	12.41	4275.44	0.00	23	7,855
272+50	27250.00	50.00	5.20	4207.90	0.00	16	7,855
272+60.33	27260.33	10.33	5.00	4223.82	0.00	2	1,613
273+00	27300.00	39.67	3.79	4145.91	0.00	6	6,149
273+50	27350.00	50.00	16.30	3974.81	0.00	19	7,519
274+00	27400.00	50.00	9.18	3787.42	0.00	24	7,187
274+50	27450.00	50.00	4.10	4154.01	0.00	12	7,353
275+00	27500.00	50.00	2.97	4722.53	0.00	7	8,219
					TOTAl	688	82,691

OLD STH 15 WEST

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill
50+23	5023.00	0.00	0.00	842.10	0	0
50+48	5048.00	25.00	0.00	1208.18	0	949
50+50	5050.00	2.00	0.00	1229.62	0	90
50+82.4	5082.40	32.40	0.00	1248.27	0	1,487
50+96	5096.00	13.60	0.24	1181.58	0	612
51+00	5100.00	4.00	0.08	1164.21	0	174
51+44	5144.00	44.00	0.00	851.29	0	1,642
51+50	5150.00	6.00	0.00	818.04	0	185
51+92	5192.00	42.00	0.08	647.87	0	1,140
52+00	5200.00	8.00	0.01	627.70	0	189
52+50	5250.00	50.00	10.86	537.71	10	1,079
53+00	5300.00	50.00	51.81	506.86	58	967
53+50	5350.00	50.00	149.25	343.54	186	787
53+53.36	5353.36	3.36	157.50	331.61	19	42
54+00	5400.00	46.64	178.63	161.97	290	426
54+50	5450.00	50.00	145.11	64.24	300	209
55+00	5500.00	50.00	140.55	28.69	264	86
55+50	5550.00	50.00	176.42	34.60	293	59
55+76.31	5576.31	26.31	187.24	54.48	177	43
56+00	5600.00	23.69	181.81	11.79	162	29
56+24.31	5624.31	24.31	187.69	22.38	166	15
56+50	5650.00	25.69	223.63	32.49	196	26
56+72.31	5672.31	22.31	158.70	36.58	158	29
57+00	5700.00	27.69	174.50	103.31	171	72
57+20.31	5720.31	20.31	192.20	80.95	138	69
57+50	5750.00	29.69	201.64	101.54	217	100
57+68.31	5768.31	18.31	209.00	101.18	139	69
58+00	5800.00	31.69	194.20	59.53	237	94
58+50	5850.00	50.00	153.42	9.02	322	63
59+00	5900.00	50.00	141.38	26.34	273	33
59+50	5950.00	50.00	144.42	13.19	265	37
60+00	6000.00	50.00	142.70	16.60	266	28
60+50	6050.00	50.00	134.50	13.85	257	28
61+00	6100.00	50.00	206.02	0.00	315	13
61+50	6150.00	50.00	192.98	9.17	369	8
62+00	6200.00	50.00	201.83	5.67	366	14
62+50	6250.00	50.00	206.56	1.60	378	7
63+00	6300.00	50.00	218.63	4.22	394	5
63+50	6350.00	50.00	233.51	9.84	419	13

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill
64+00	6400.00	50.00	242.48	10.66	441	19
64+50	6450.00	50.00	229.19	8.54	437	18
65+00	6500.00	50.00	233.58	14.46	428	21
65+50	6550.00	50.00	213.05	14.63	414	27
66+00	6600.00	50.00	198.77	9.20	381	22
66+50	6650.00	50.00	197.54	5.94	367	14
67+00	6700.00	50.00	195.43	0.00	364	6
67+40.45	6740.45	40.45	180.12	1.73	281	1
67+50	6750.00	9.55	178.26	2.57	63	1
67+88.26	6788.26	38.26	169.53	4.61	246	5
68+00	6800.00	11.74	167.49	5.84	73	2
68+36.06	6836.06	36.06	154.56	9.83	215	10
68+50	6850.00	13.94	149.11	10.16	78	5
68+53.59	6853.59	3.59	147.80	10.27	20	1
68+83.87	6883.87	30.28	144.26	13.79	164	13
68+86.26	6886.26	2.39	144.34	14.31	13	1
69+00	6900.00	13.74	143.39	18.02	73	8
69+49.99	6949.99	49.99	126.25	26.44	250	41
				TOTAL	11,113	11,138

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PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	EARTH QUANTITIES	SHEET: 244	E

FILE NAME : N:\PDS\...\090100_ewpptx PLOT DATE : June 14, 1911 PLOT BY : A.R.H. PLOT NAME : PLOT SCALE : 1:1

GIVENS ROAD WEST

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill
78+41.13	7841.13	0.00	66.62	8.61	0	0
78+41.58	7841.58	0.45	65.26	8.92	1	0
78+50	7850.00	8.42	44.43	20.74	17	5
79+00	7900.00	50.00	0.00	128.86	41	139
79+32.41	7932.41	32.41	0.00	270.94	0	240
				TOTAL	59	383

GIVENS ROAD EAST

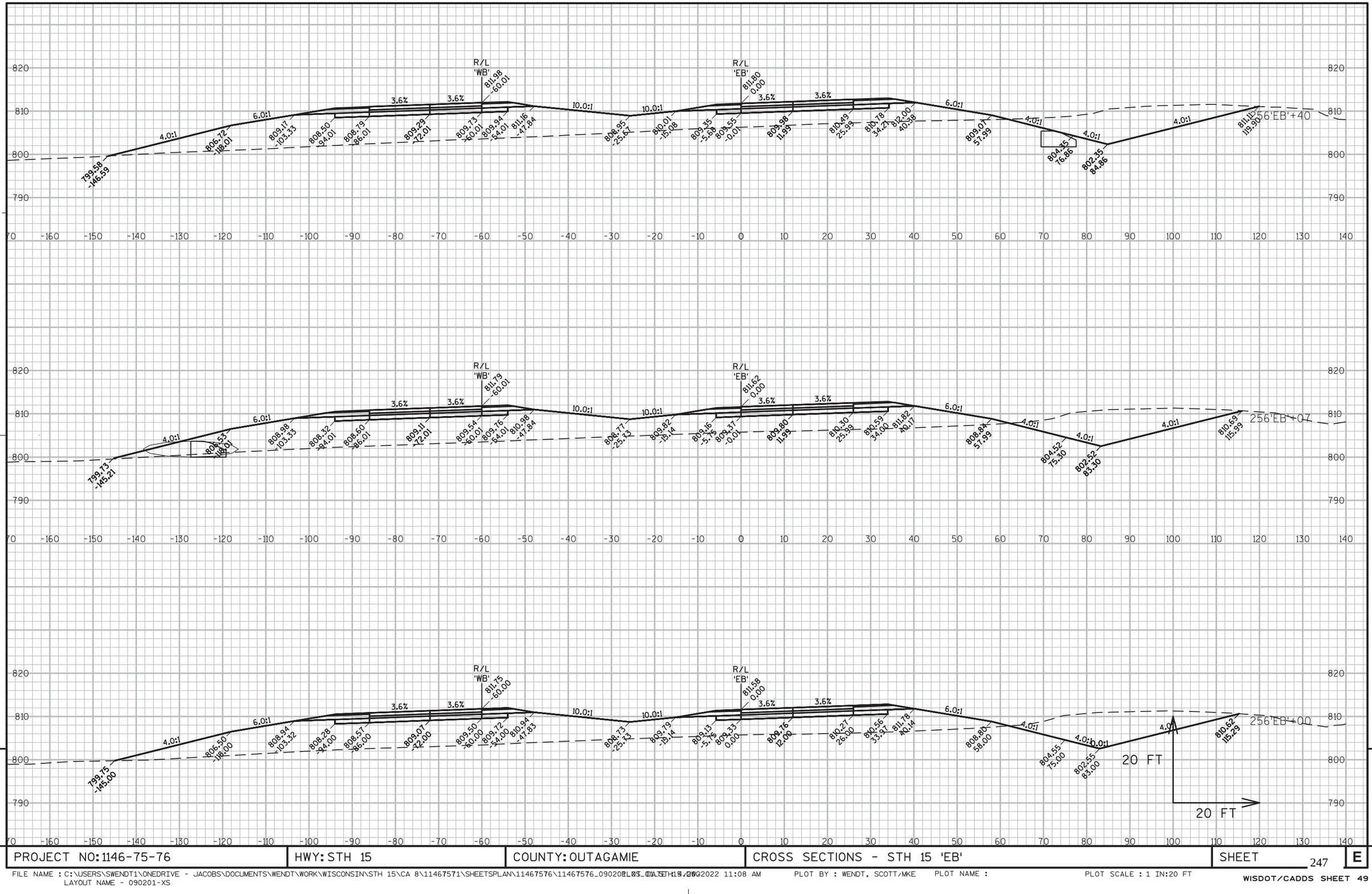
STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill
90+75.06	9075.06	0.00	25.67	0.00	0	0
91+00	9100.00	24.94	74.02	4.25	46	2
91+50	9150.00	50.00	63.47	0.64	127	5
91+65.29	9165.29	15.29	64.48	0.09	36	0
91+87.87	9187.87	22.58	72.02	0.00	57	0
				TOTAL	267	7

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WEST TEMPORARY CONNECTION

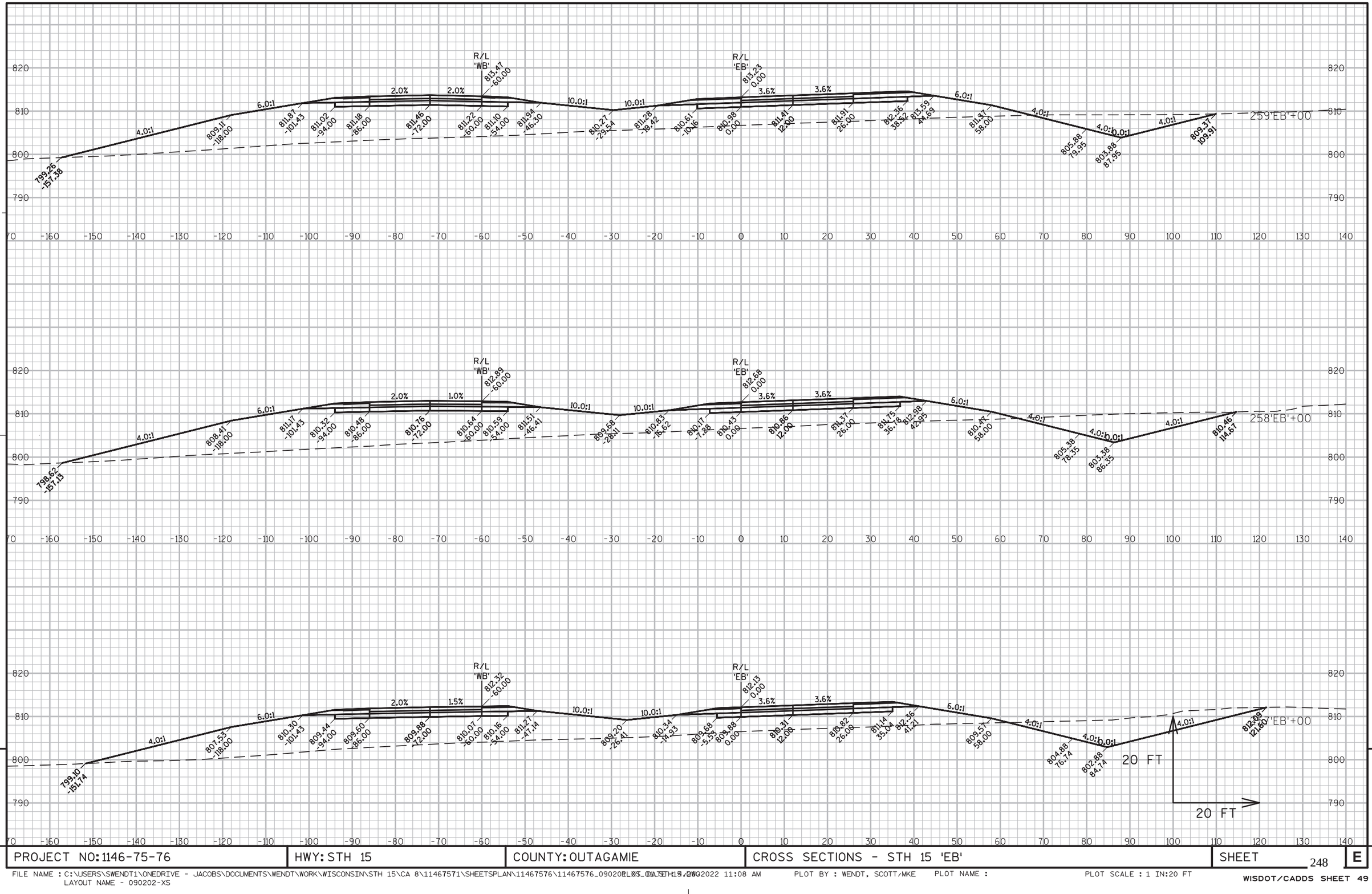
STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)	
			Cut	Fill	Cut	Fill
200+00	20000.00	0.00	0.00	0.00	0	0
200+12.37	20012.37	12.37	38.76	0.16	9	0
200+20.33	20020.33	7.96	36.71	0.92	11	0
200+50	20050.00	29.67	38.47	1.51	41	1
201+00	20100.00	50.00	39.75	4.15	72	5
201+50	20150.00	50.00	43.26	2.71	77	6
202+00	20200.00	50.00	73.37	0.00	108	3
202+50	20250.00	50.00	103.68	0.00	164	0
203+00	20300.00	50.00	120.22	0.00	207	0
203+50	20350.00	50.00	129.67	0.00	231	0
204+00	20400.00	50.00	141.50	0.00	251	0
204+50	20450.00	50.00	138.49	0.00	259	0
205+00	20500.00	50.00	155.11	0.00	272	0
205+33.51	20533.51	33.51	125.60	22.85	174	14
205+50	20550.00	16.49	105.63	32.18	71	17
206+00	20600.00	50.00	82.43	44.23	174	71
206+50	20650.00	50.00	79.93	65.93	150	102
207+00	20700.00	50.00	55.44	194.46	125	241
207+50	20750.00	50.00	54.30	240.63	102	403
208+00	20800.00	50.00	61.25	355.89	107	552
208+50	20850.00	50.00	75.81	500.35	127	793
209+00	20900.00	50.00	111.04	598.44	173	1,017
209+50	20950.00	50.00	147.44	699.73	239	1,202
210+00	21000.00	50.00	194.20	840.19	316	1,426
210+46.68	21046.68	46.68	228.47	983.08	365	1,576
210+50	21050.00	3.32	229.87	983.36	28	121
210+54.64	21054.64	4.64	231.86	976.79	40	168
210+67.01	21067.01	12.37	0.00	0.00	53	224
				TOTAL	3,949	7,943



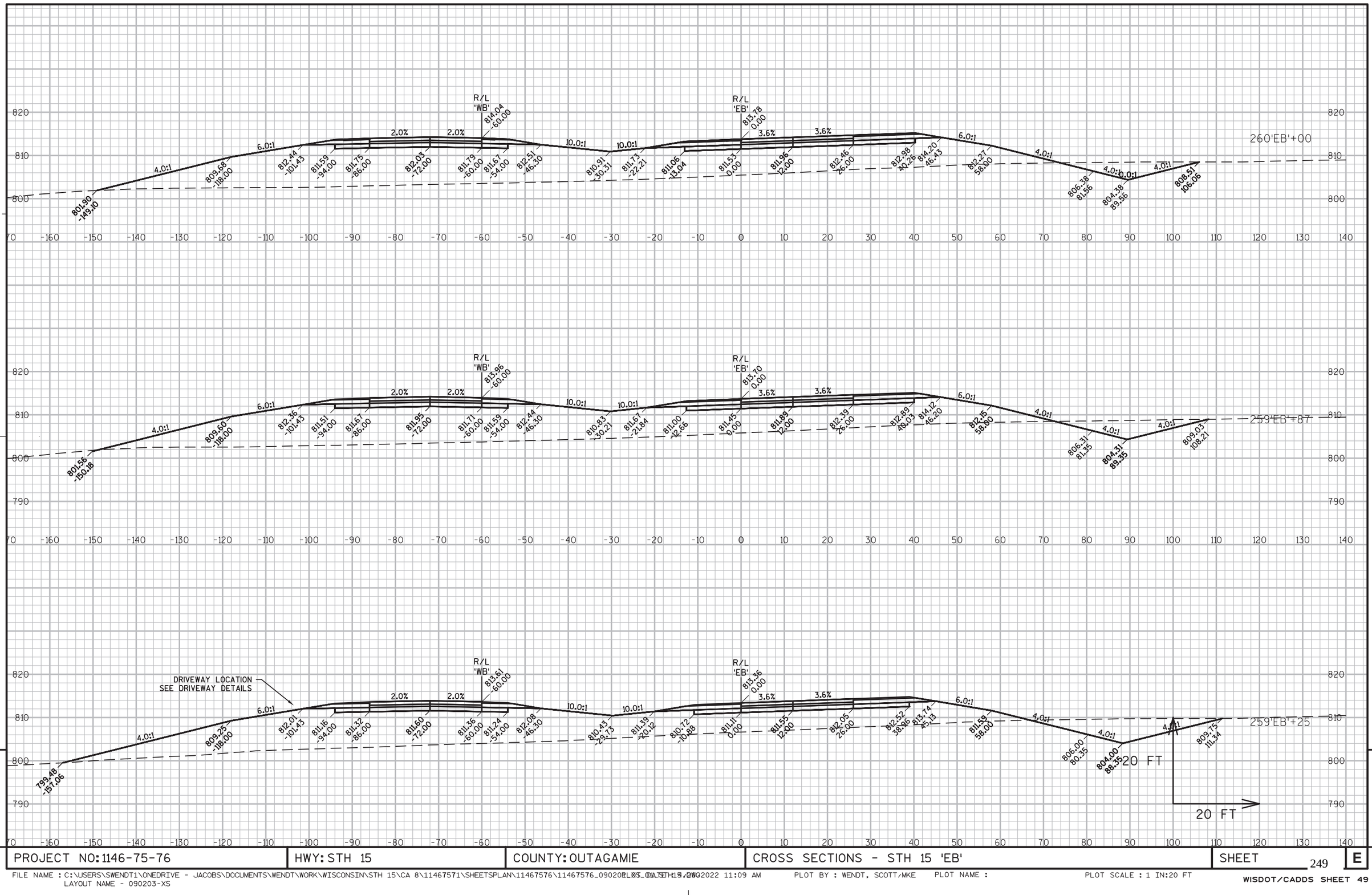
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PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 247	E



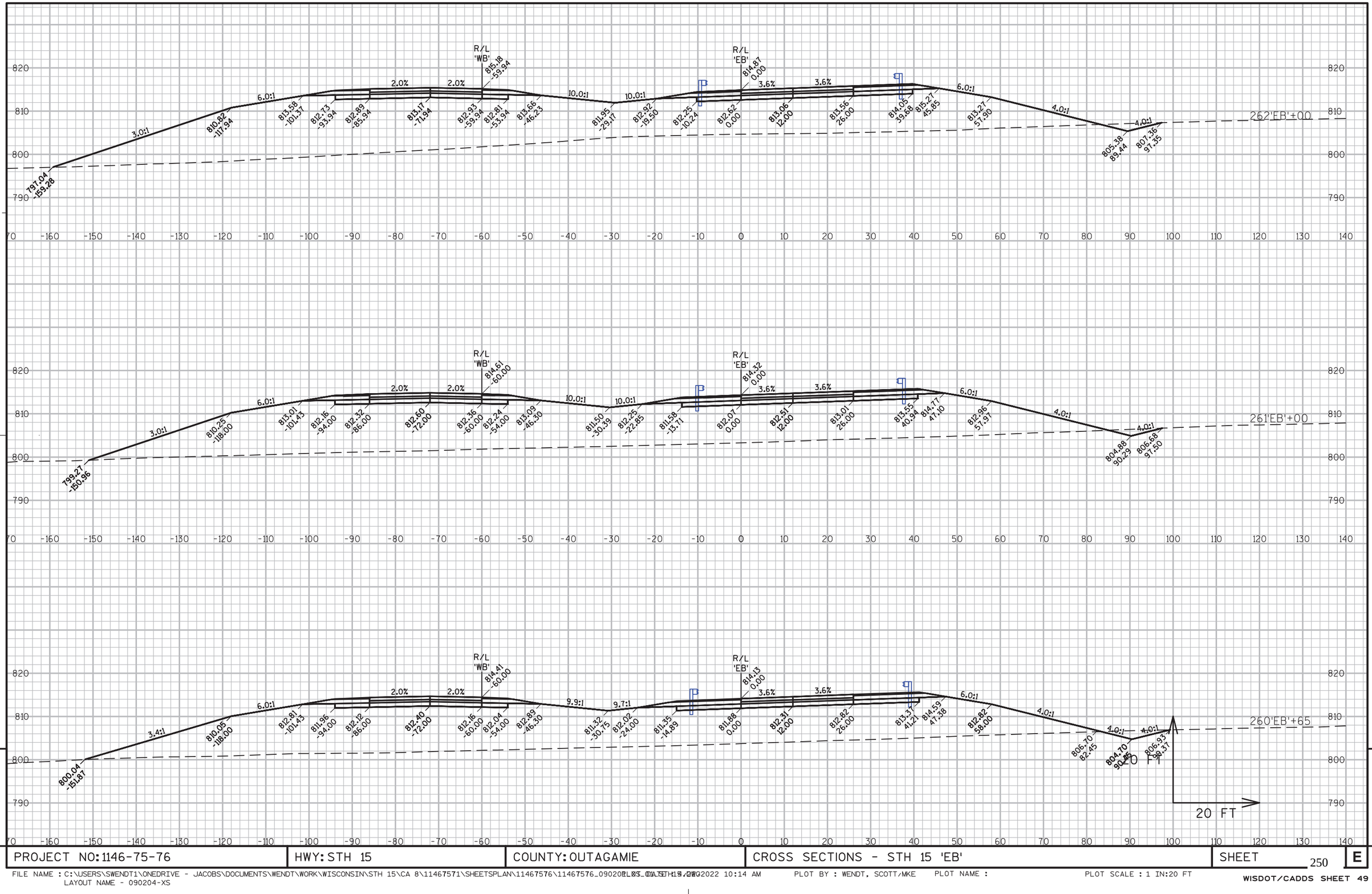
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PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 249	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_09020PLRS_DIA_STH15.DGN LAYOUT NAME - 090203-XS
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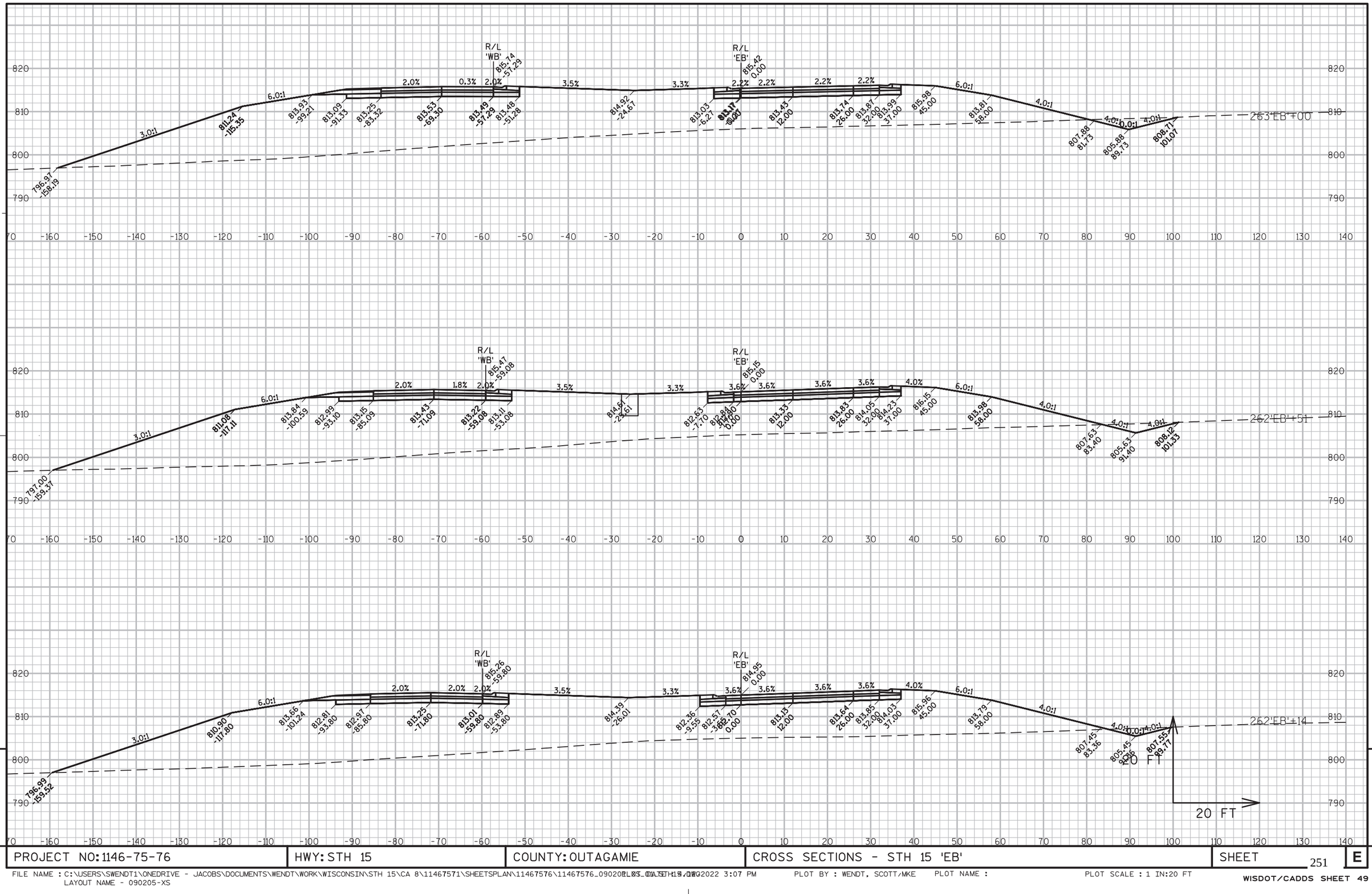
WISDOT/CADDS SHEET 49



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9

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 250	E

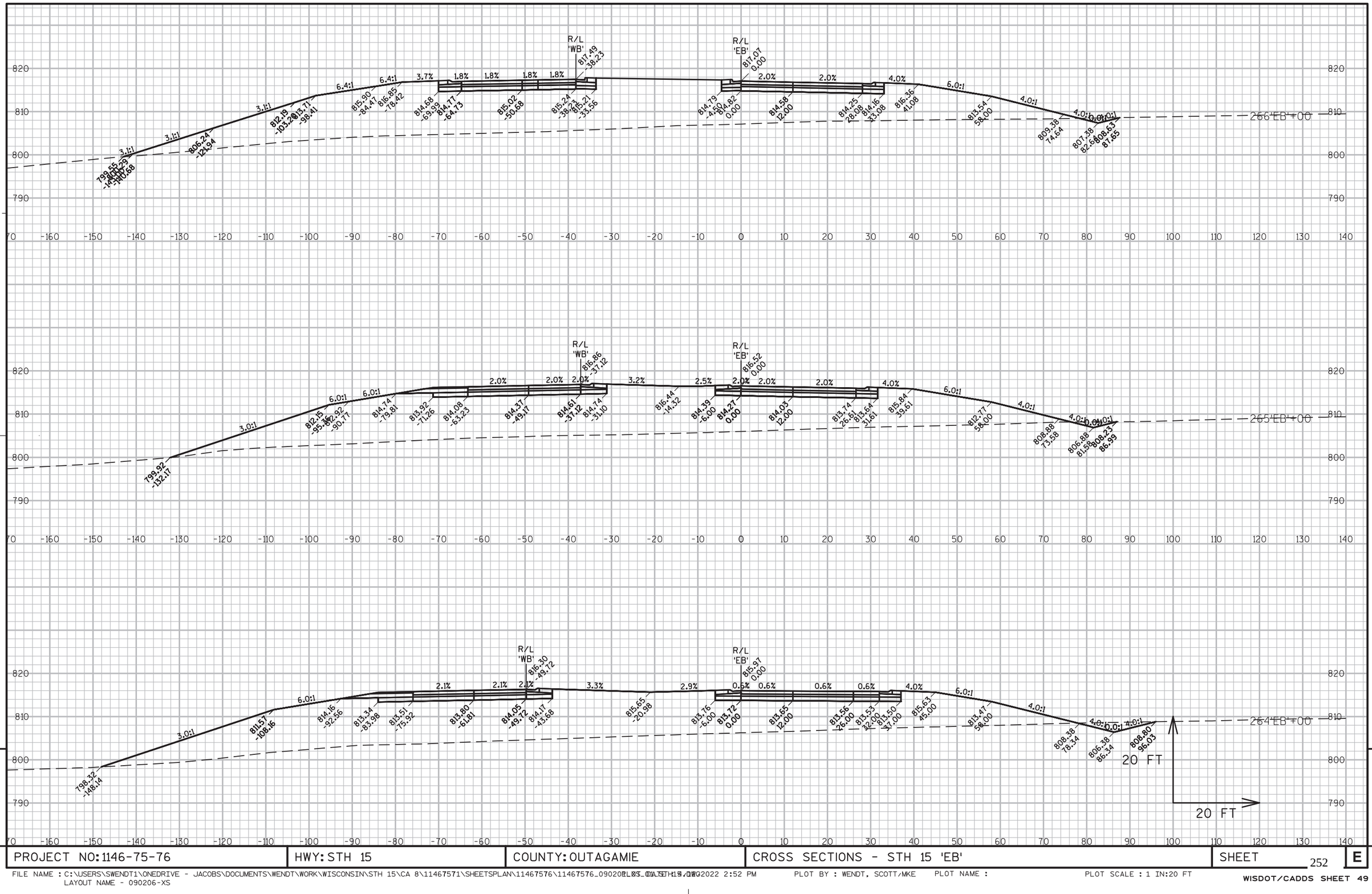


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PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 251	E

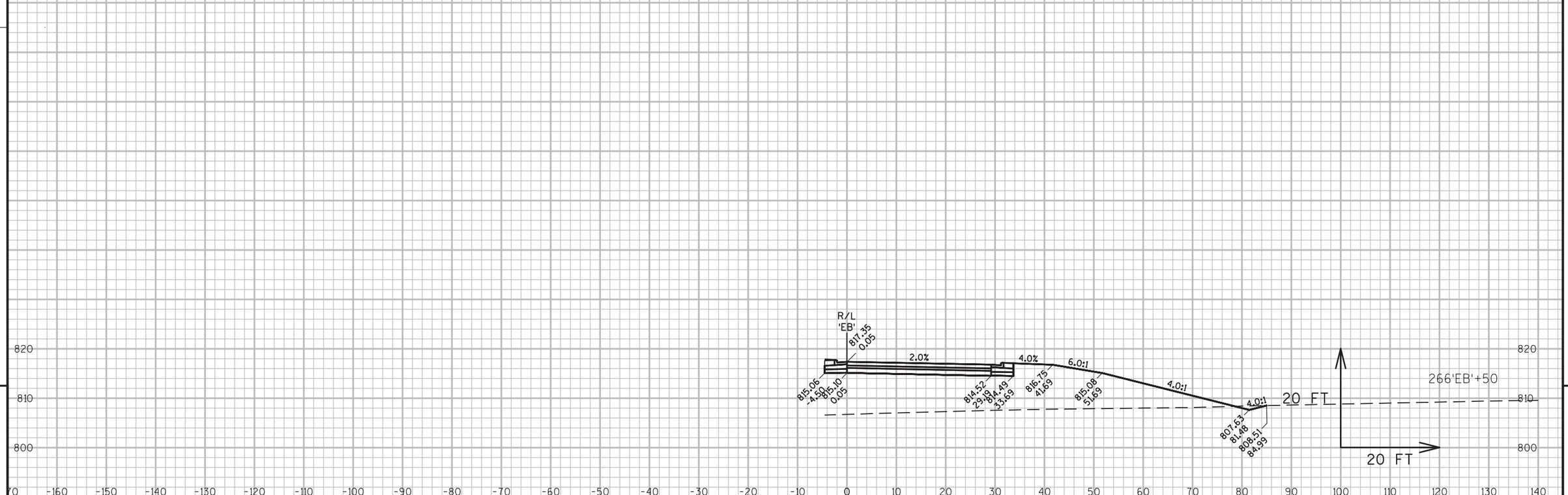
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LAYOUT NAME - 090205-XS
PLOTTED : 19 JUL 2022 3:07 PM
PLOT BY : WENDT, SCOTT/MKE
PLOT NAME :
PLOT SCALE : 1 IN:20 FT



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PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 252	E

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PLOTTED : 19 DEC 2022 2:52 PM
PLOT BY : WENDT, SCOTT/MKE
PLOT NAME :
PLOT SCALE : 1 IN:20 FT



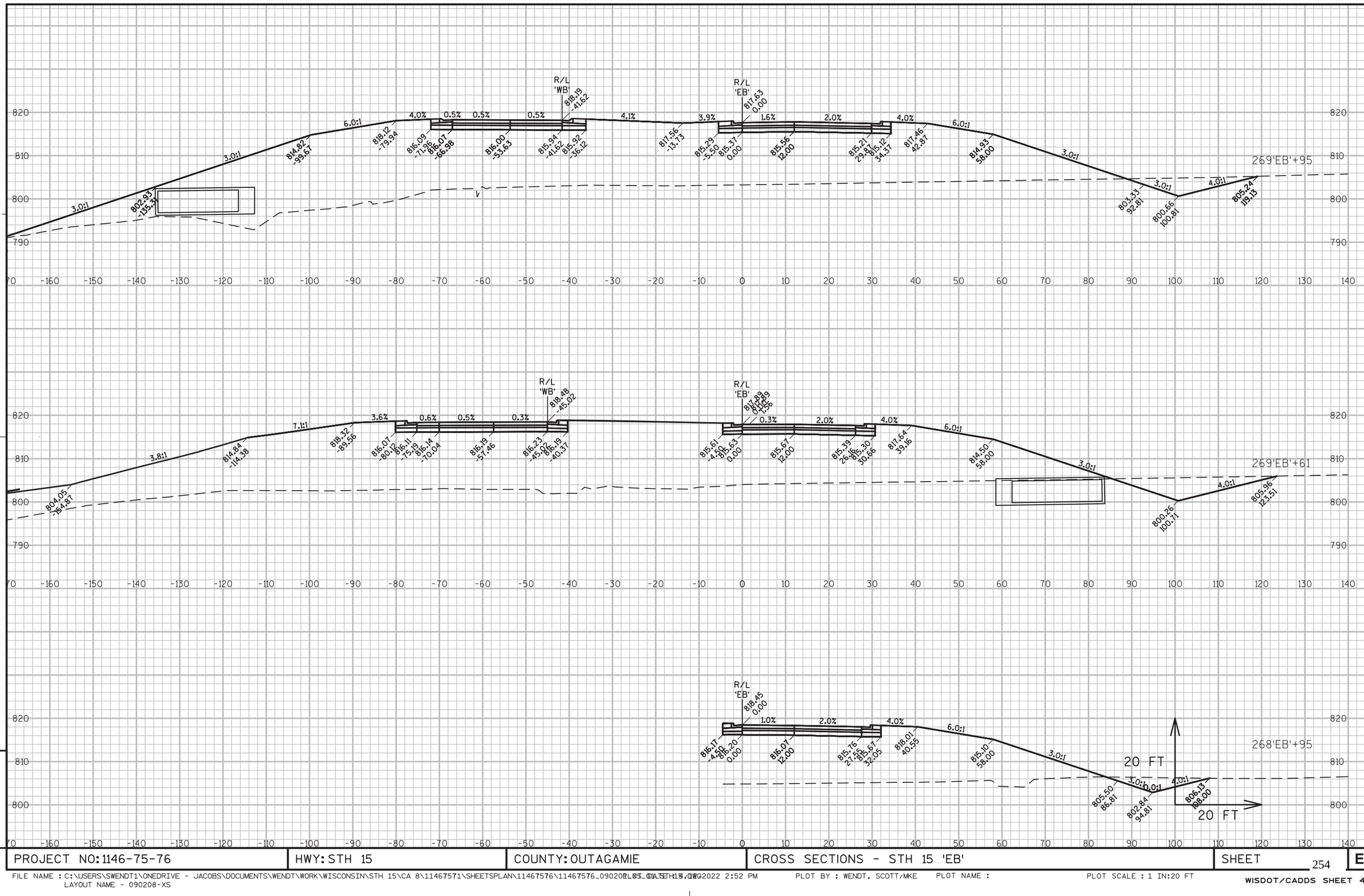
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PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 253	E

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LAYOUT NAME - 090207-XS

WISDOT/CADDS SHEET 49



9

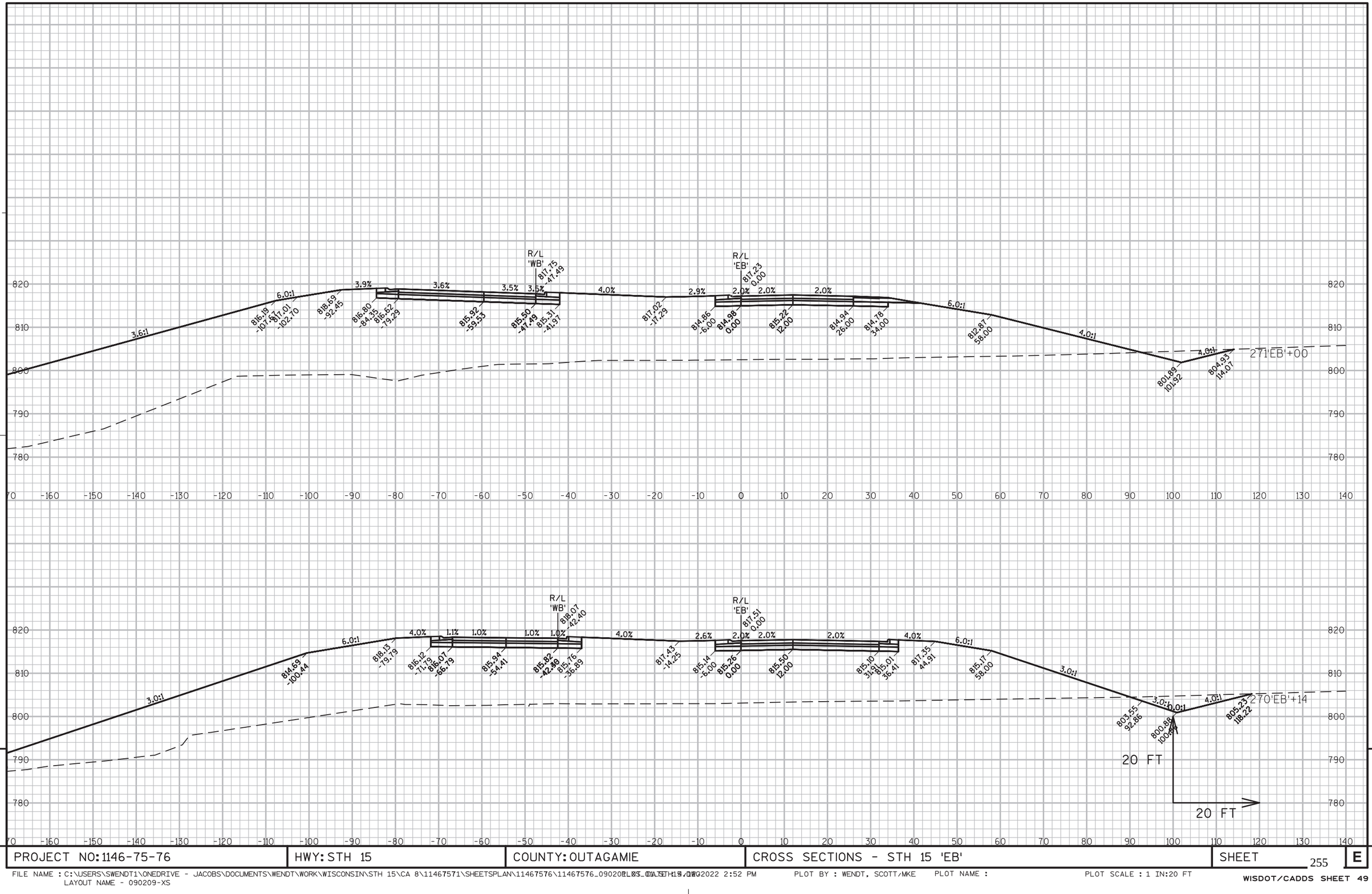
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PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 254	E

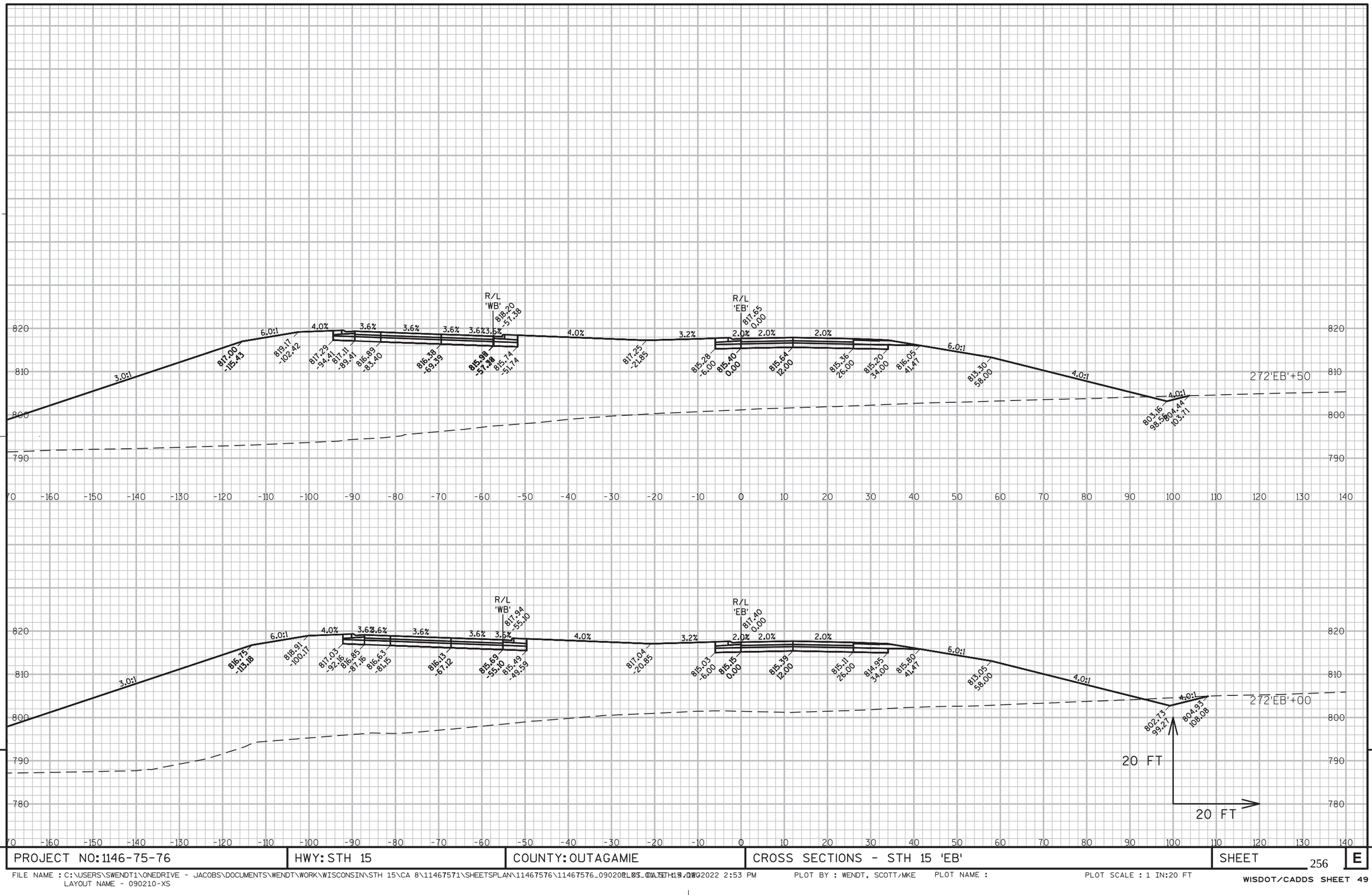
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LAYOUT NAME - 090208-XS

PLOT BY : WENDT, SCOTT/MKE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 255	E



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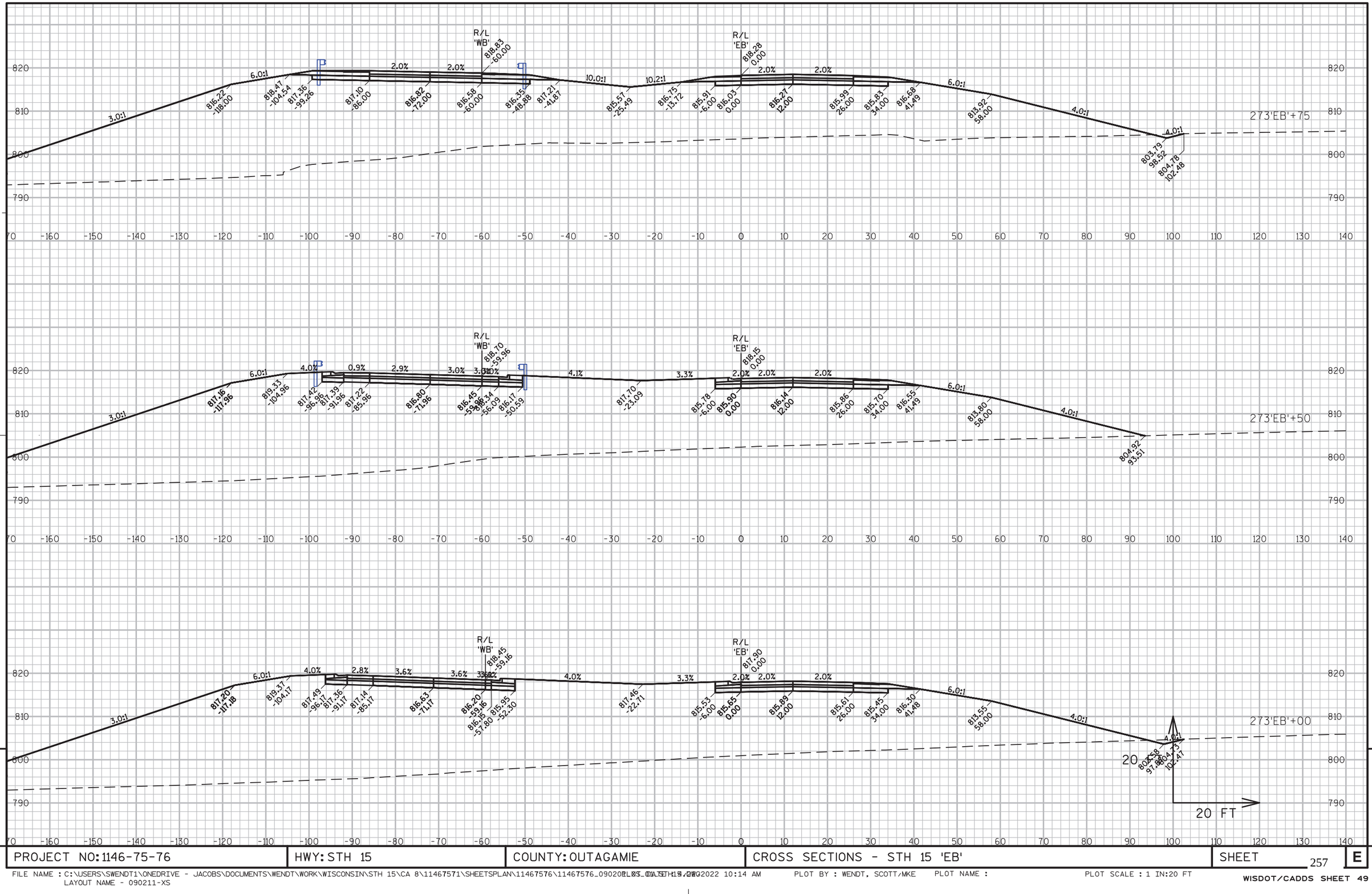
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PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 256	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_09020PLRS_01STH15.DWG 2022 2:53 PM
LAYOUT NAME - 090210-XS

PLOT BY : WENDT, SCOTT/MKE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



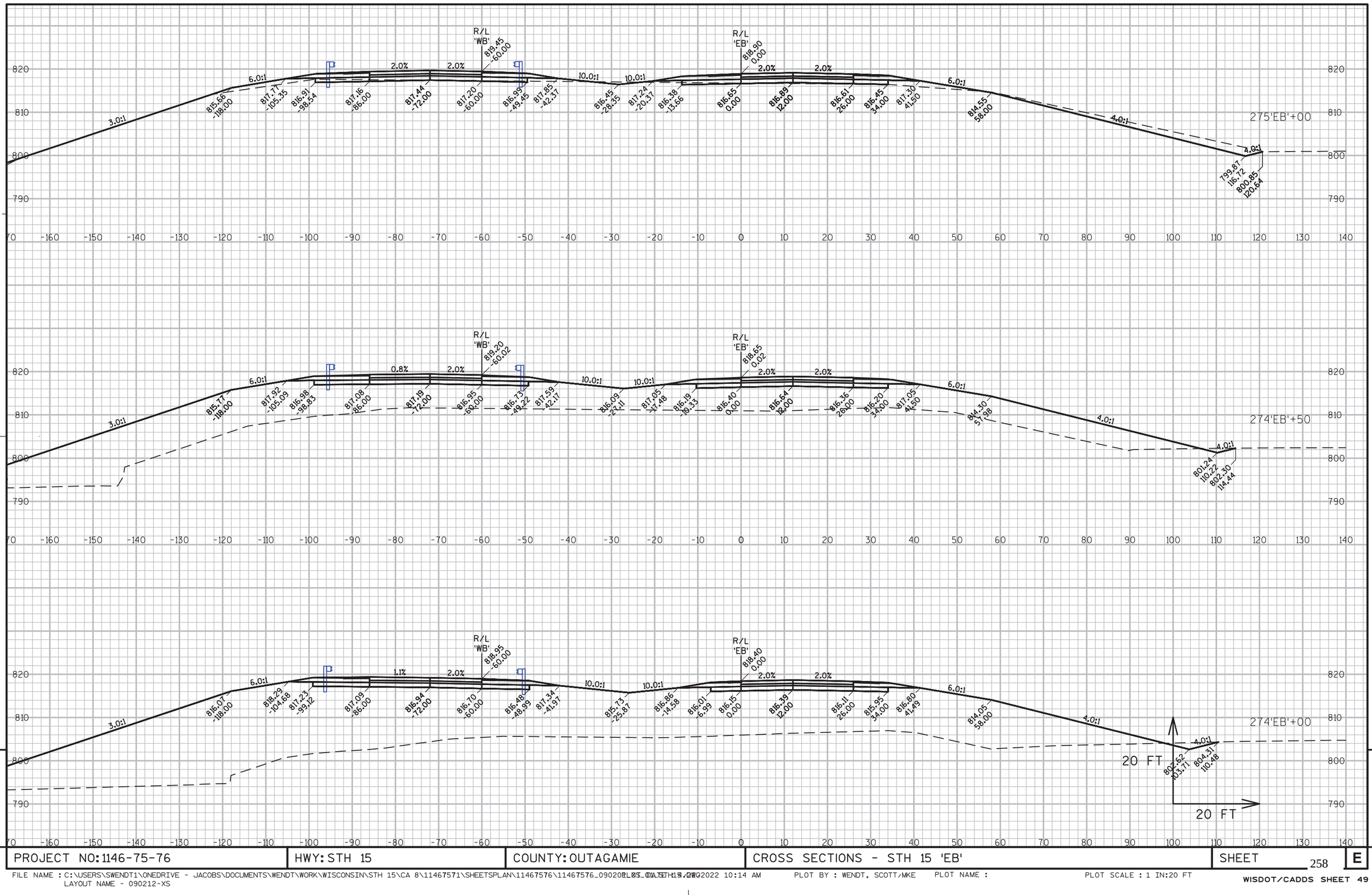
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9

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 257	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_09020PLRS_01STH15.DWG
LAYOUT NAME - 090211-XS
PLOT DATE : 19 DEC 2022 10:14 AM
PLOT BY : WENDT, SCOTT/MKE
PLOT NAME :
PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

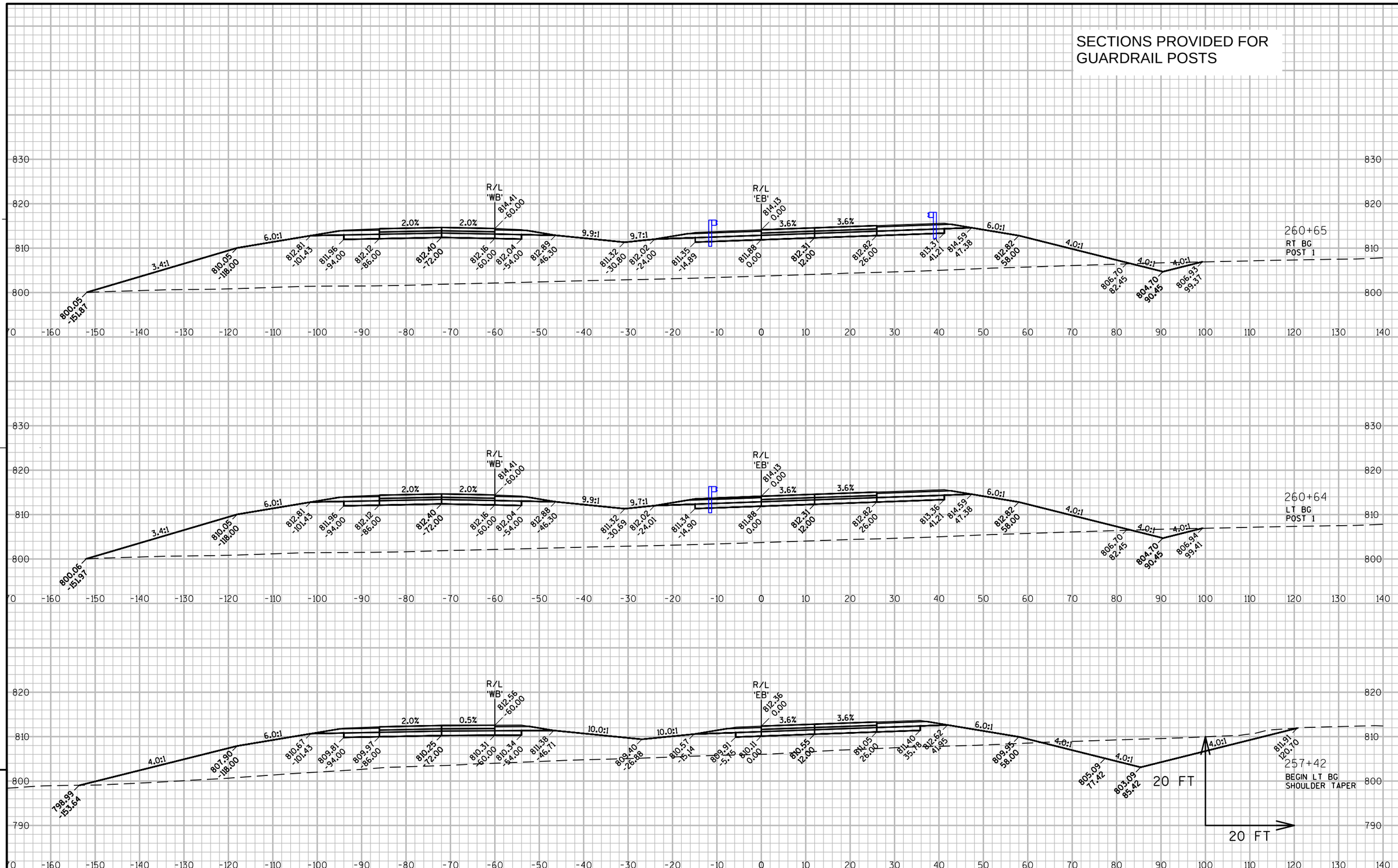
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PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 258	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_09020PLRS_01STH15.DWG 12/9/2022 10:14 AM PLOT BY : WENDT, SCOTT/MKE PLOT NAME : PLOT SCALE : 1 IN:20 FT
LAYOUT NAME - 090212-XS

WISDOT/CADDS SHEET 49

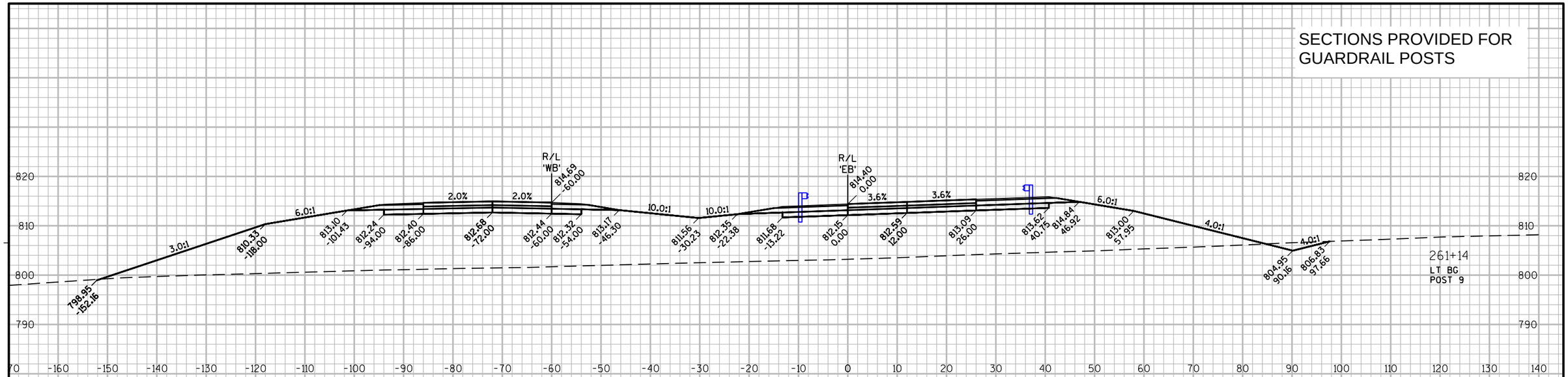
SECTIONS PROVIDED FOR
GUARDRAIL POSTS

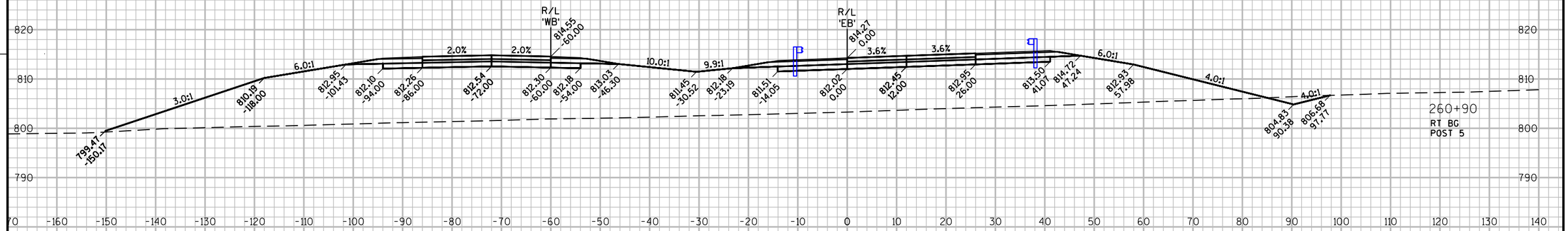


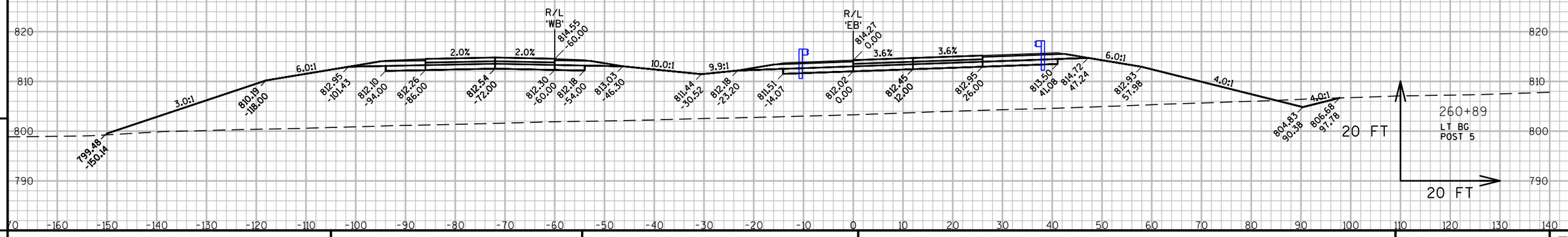
PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 259 E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_09020PLRS_DATA_STH15.DGN 9/26/2022 10:53 AM
LAYOUT NAME - 090217-XS
PLOT BY : WENDT, SCOTT PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49

SECTIONS PROVIDED FOR
GUARDRAIL POSTS







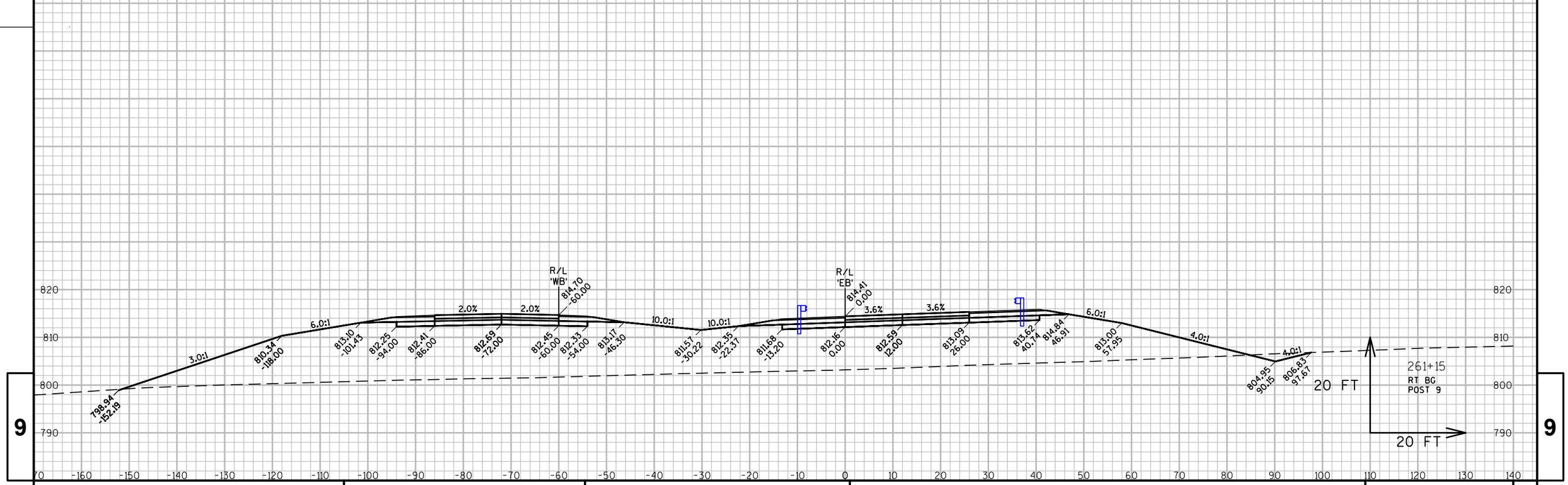
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PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 260	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_090217-XS_STH15.DGN
LAYOUT NAME - 090217-XS
PLOT DATE : 19 JAN 2022 10:53 AM
PLOT BY : WENDT, SCOTT
PLOT NAME :
PLOT SCALE : 1 IN:20 FT

SECTIONS PROVIDED FOR
GUARDRAIL POSTS



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9

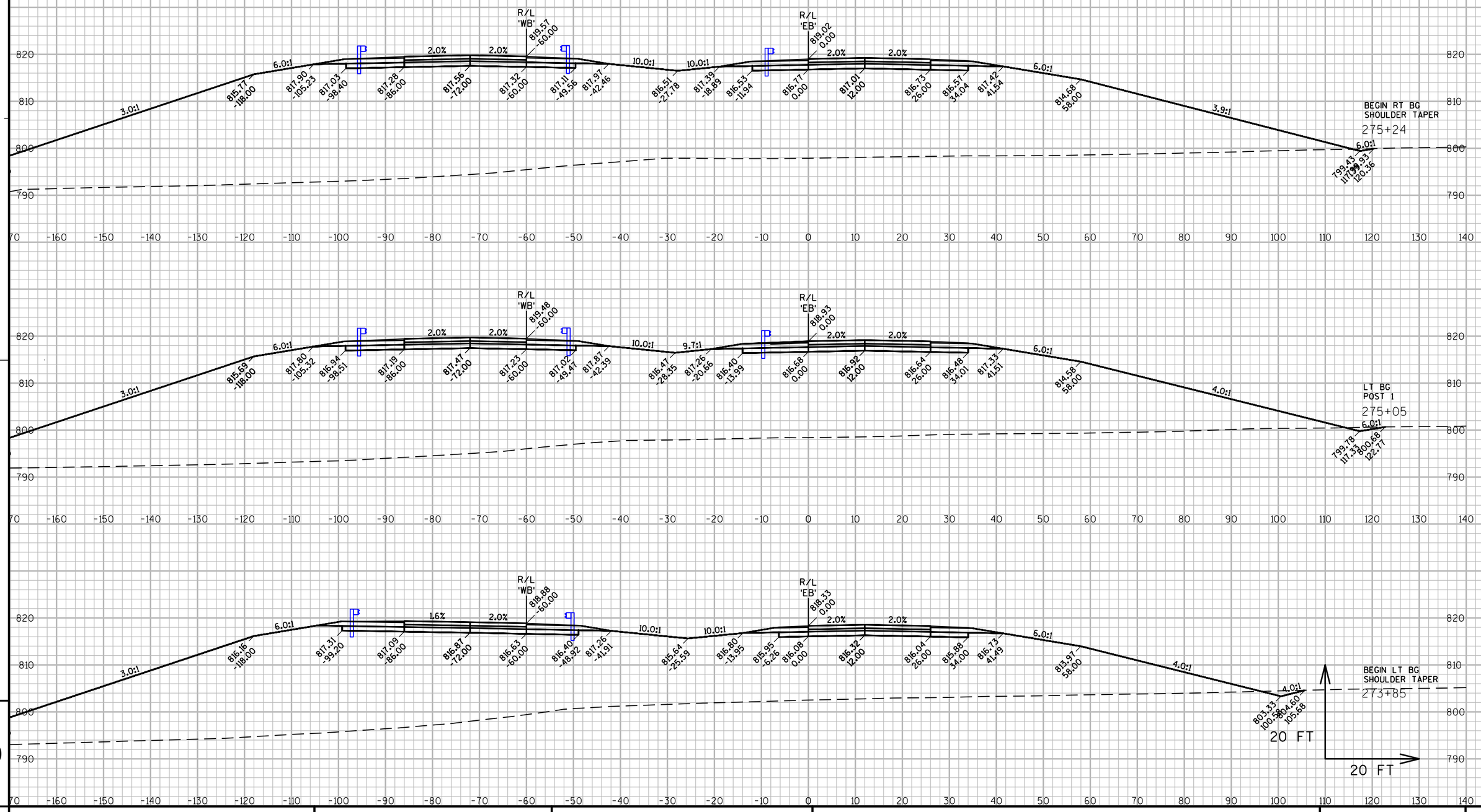
PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 261	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_090201_XS_STH 15.DGN 19/2022 10:53 AM
LAYOUT NAME - 090217-XS

PLOT BY : WENDT, SCOTT PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

SECTIONS PROVIDED FOR
GUARDRAIL POSTS



9

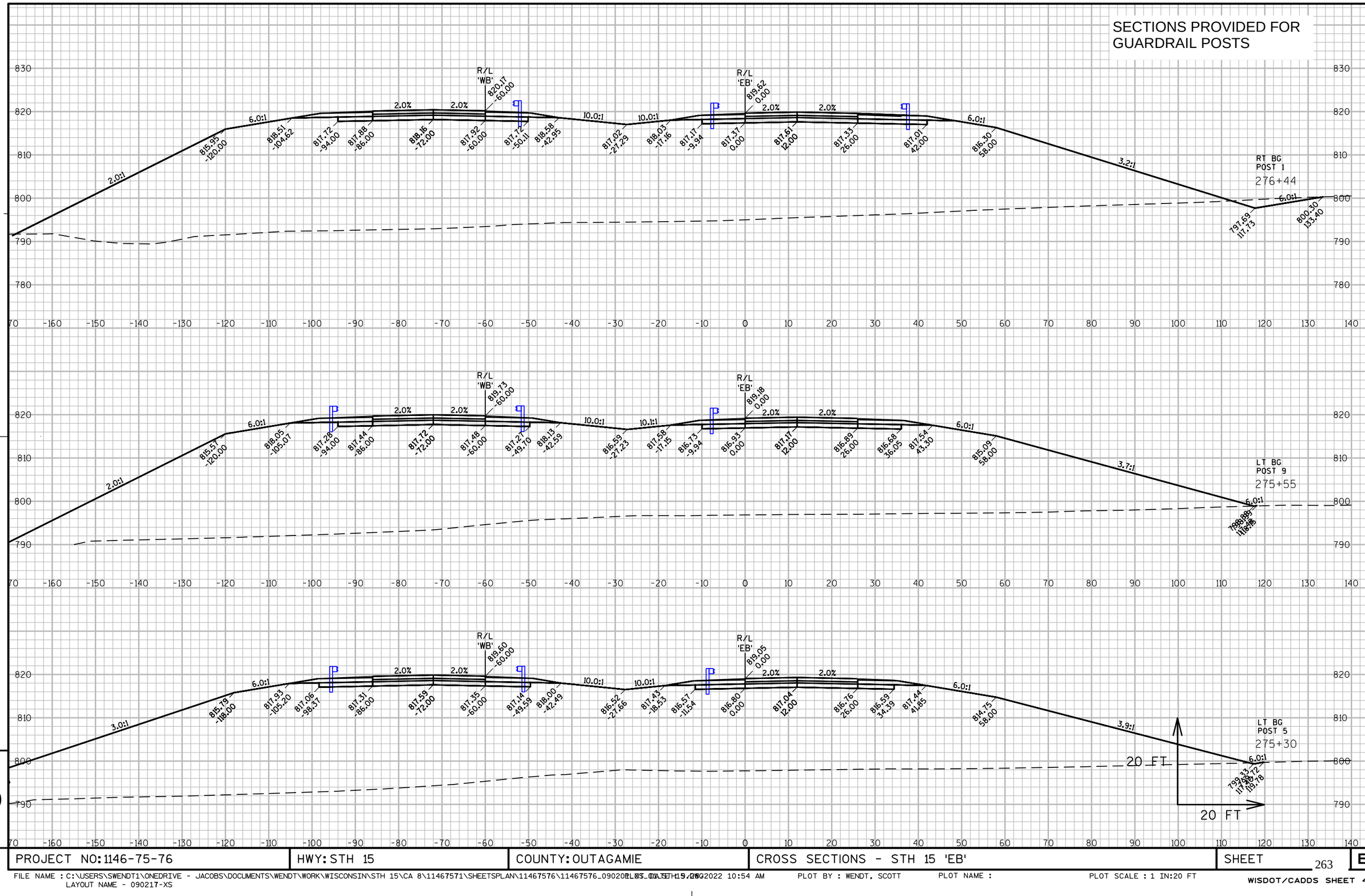
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PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 262	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_090202_XS_DIA_STH15.DGN
LAYOUT NAME - 090217-XS
PLOTTED : 19 JAN 2022 10:54 AM
PLOT BY : WENDT, SCOTT
PLOT NAME :
PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

SECTIONS PROVIDED FOR
GUARDRAIL POSTS



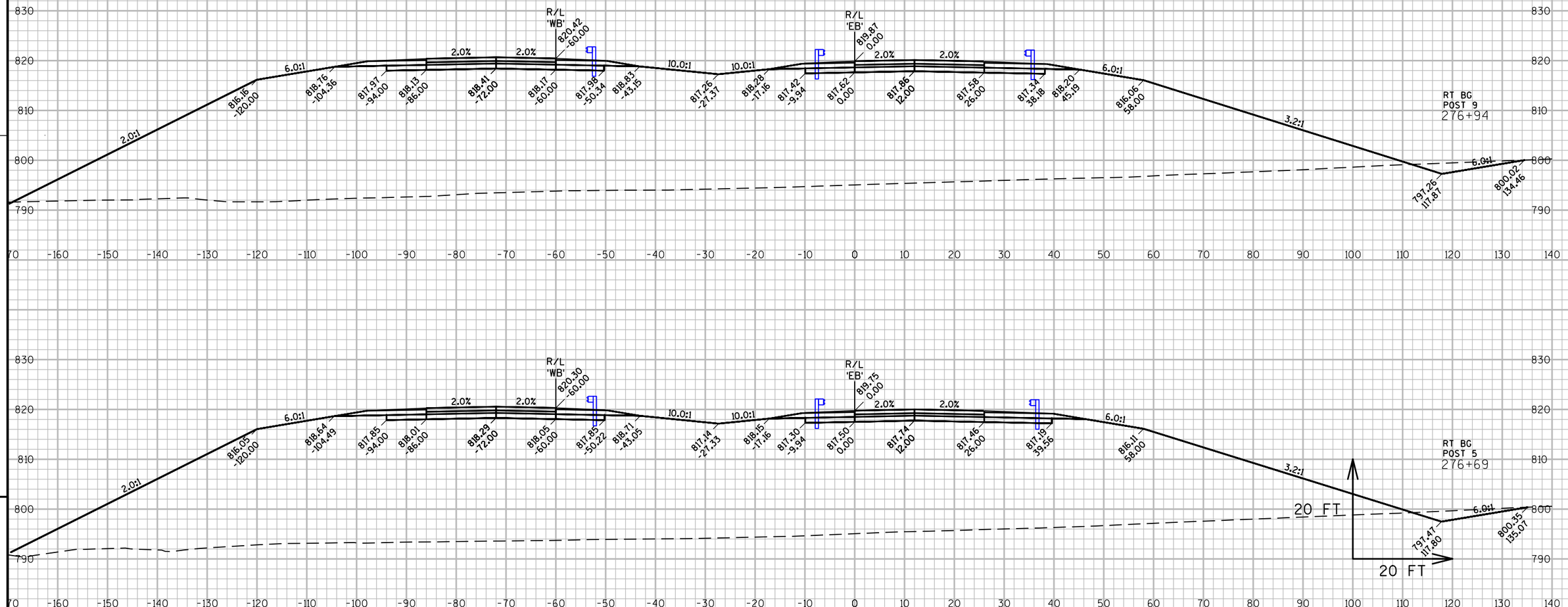
9 9

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 263	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_090201_XS_DIA_STH15.DGN
LAYOUT NAME - 090217-XS
PLOT DATE : 19 APR 2022 10:54 AM PLOT BY : WENDT, SCOTT PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

SECTIONS PROVIDED FOR
GUARDRAIL POSTS



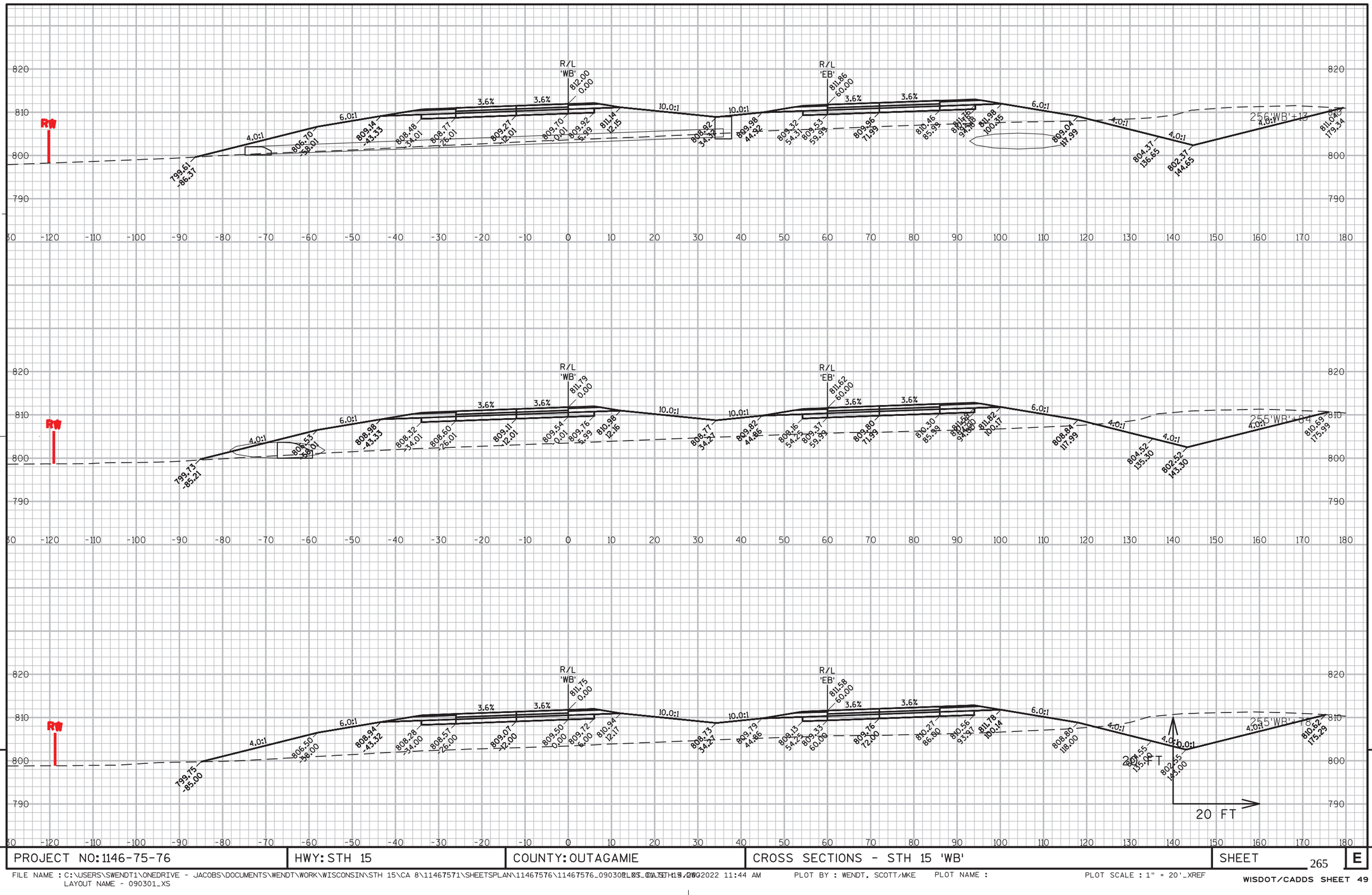
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PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 264	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_09020PLRS_DIA.DGN 19/2022 10:54 AM PLOT BY : WENDT, SCOTT PLOT NAME : PLOT SCALE : 1 IN:20 FT
LAYOUT NAME - 090217-XS

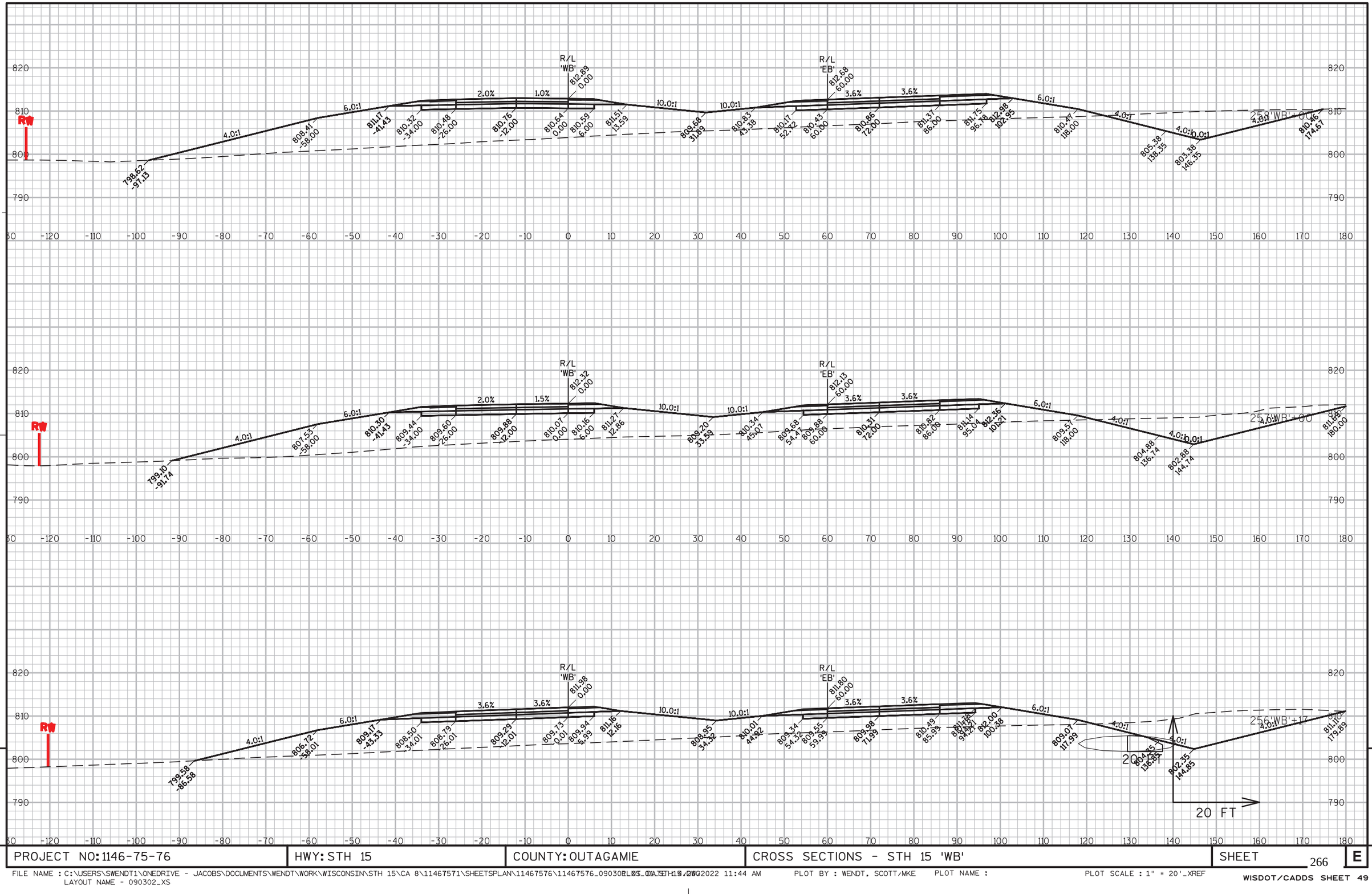
WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 265	E



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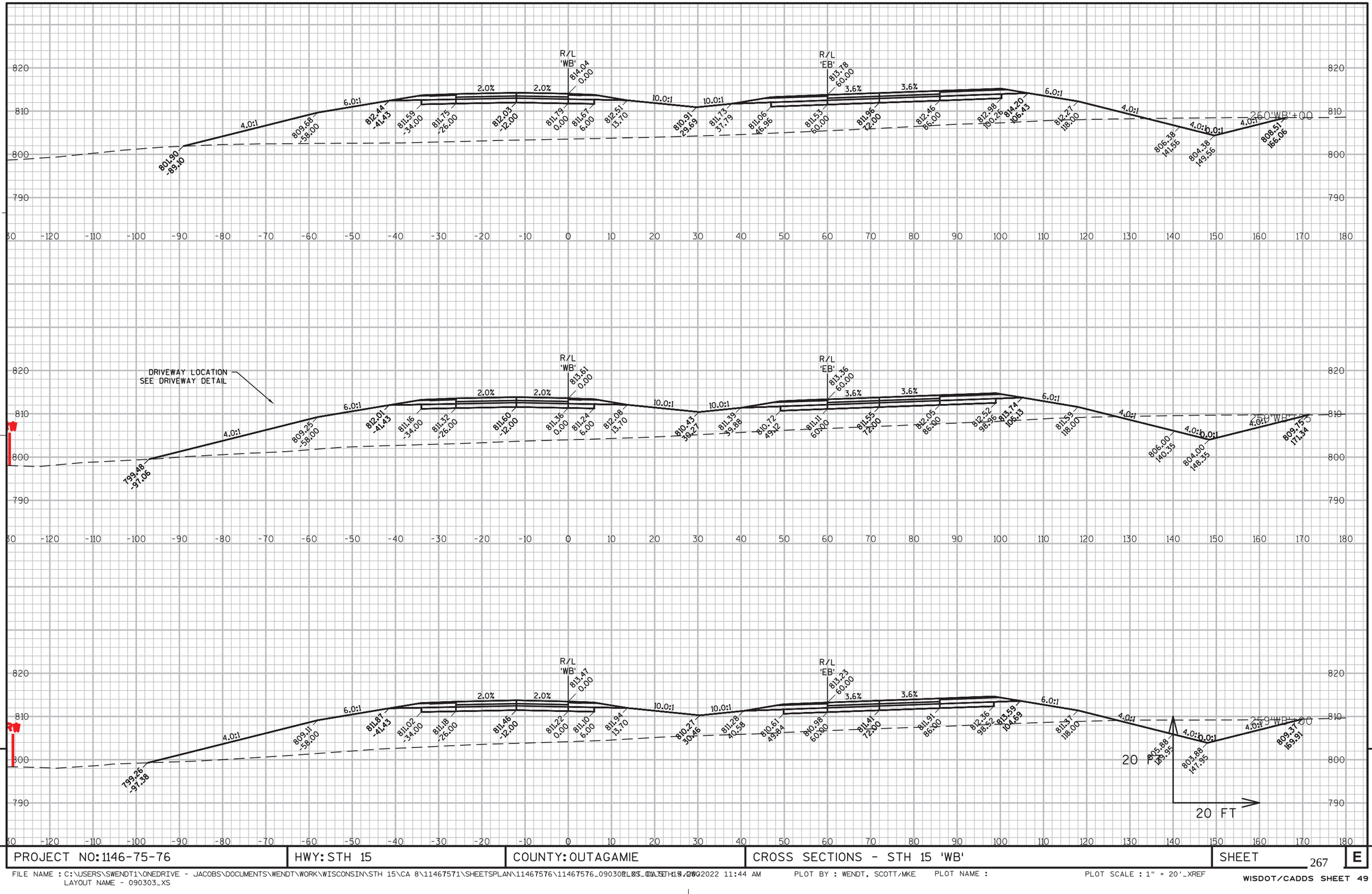
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PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 266	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_09030PLRS_DIA.DGN 19/2022 11:44 AM
LAYOUT NAME - 090302_XS

PLOT BY : WENDT, SCOTT/MKE PLOT NAME : PLOT SCALE : 1" = 20'_XREF

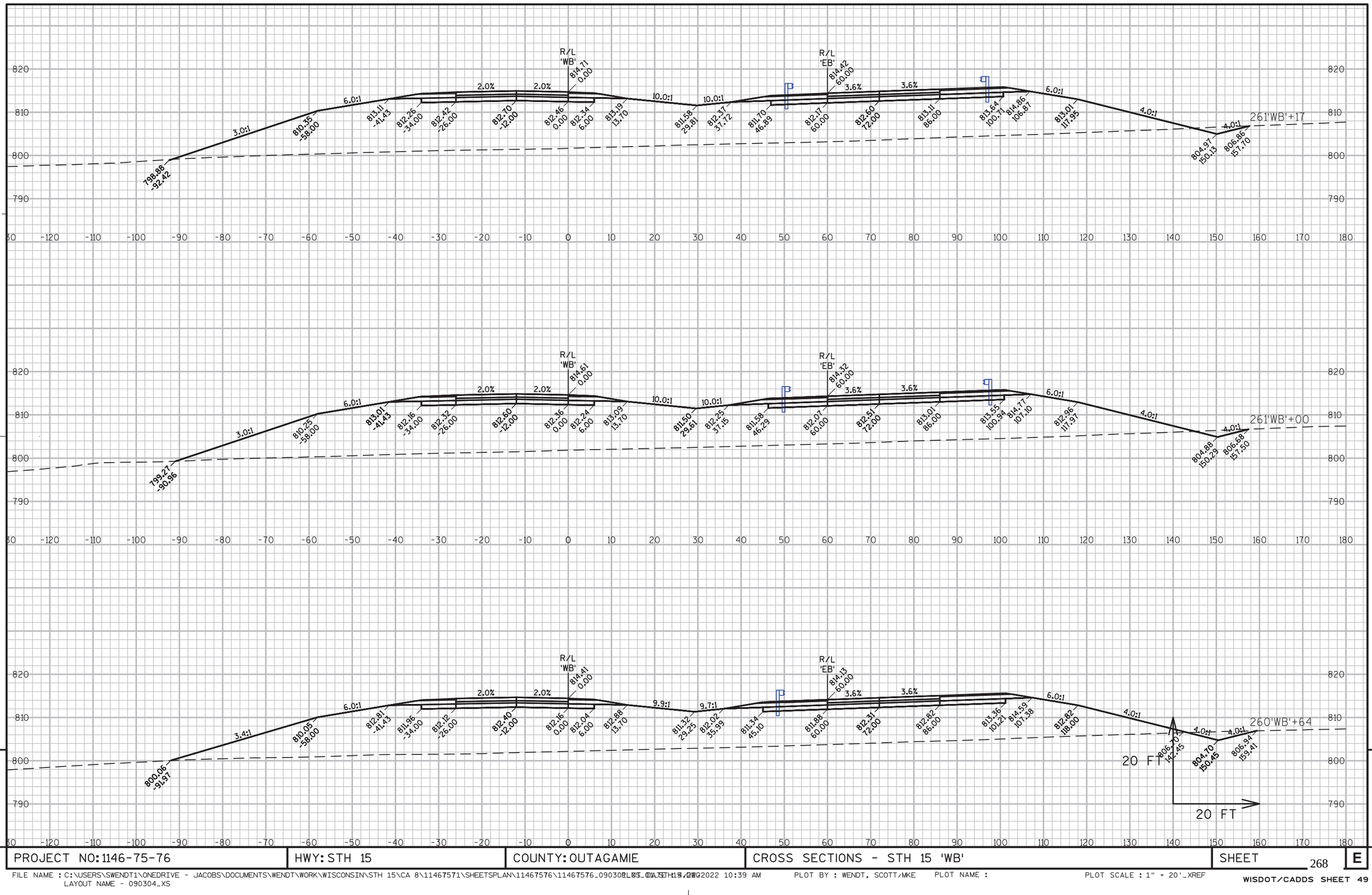
WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 267	E

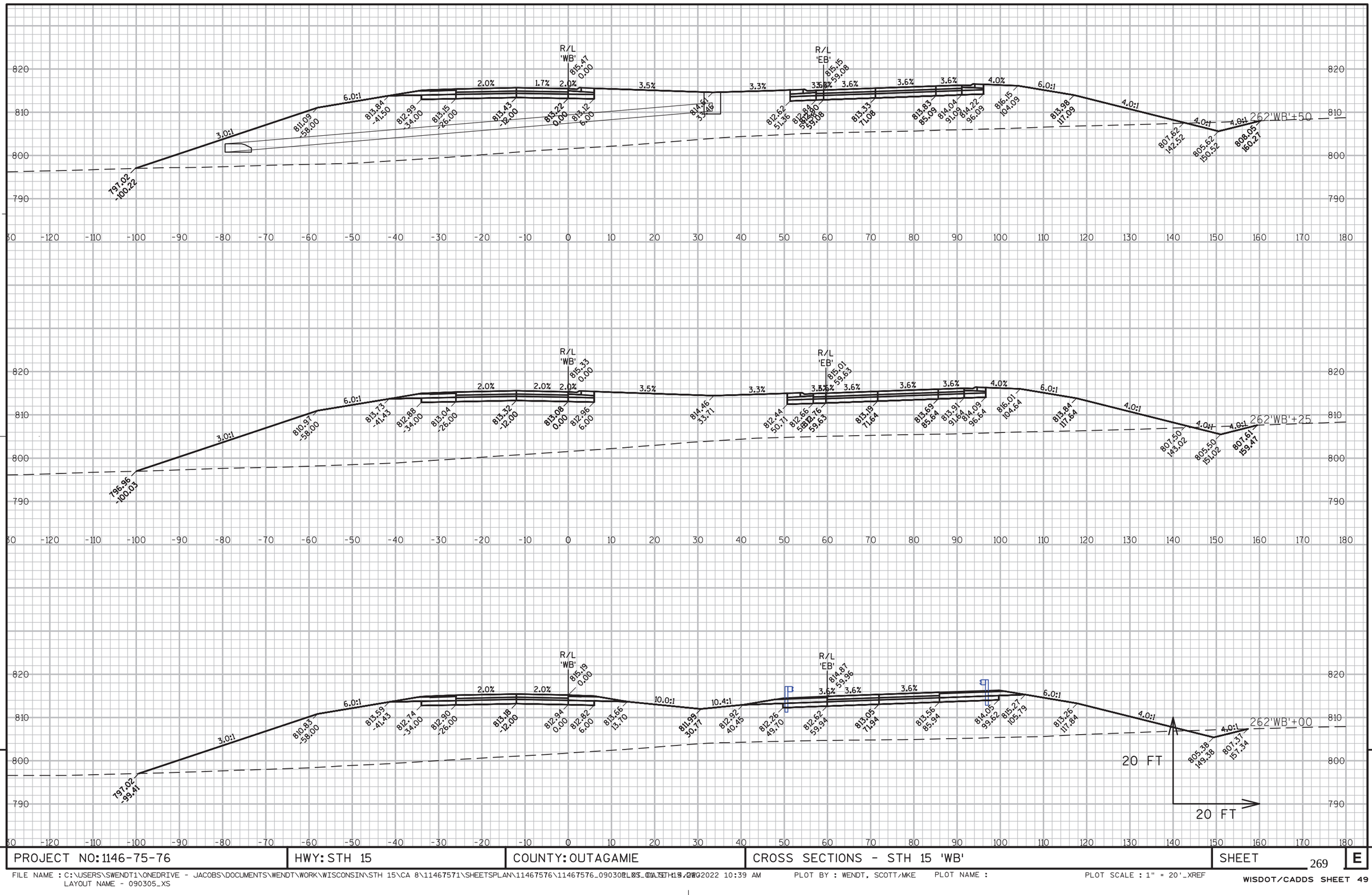


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PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 268	E

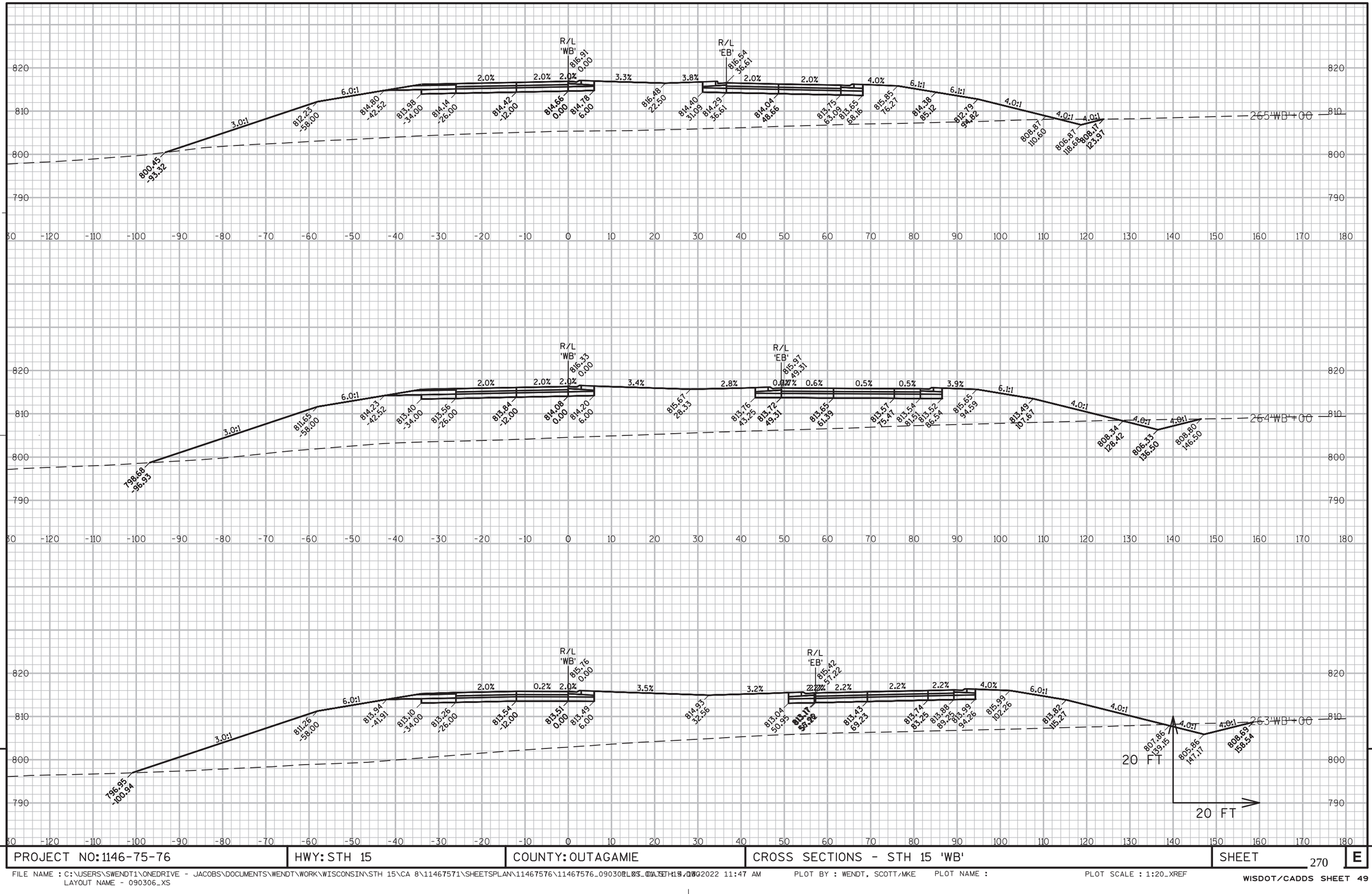
FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_090304_XS_DATA_STH 15.DWG 12/19/2022 10:39 AM
LAYOUT NAME - 090304_XS
PLOT BY : WENDT, SCOTT/MKE PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



9

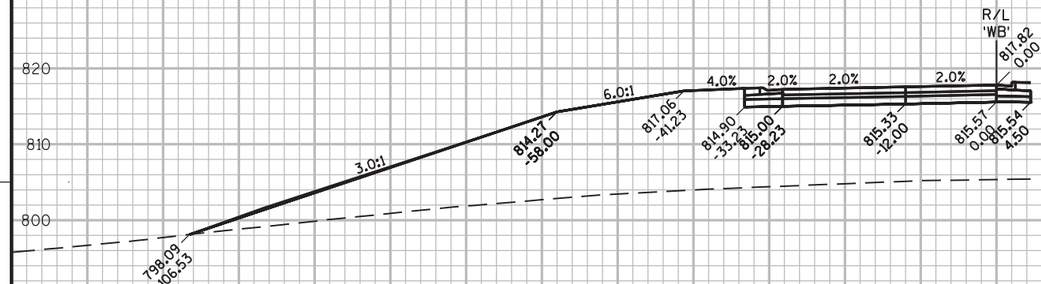
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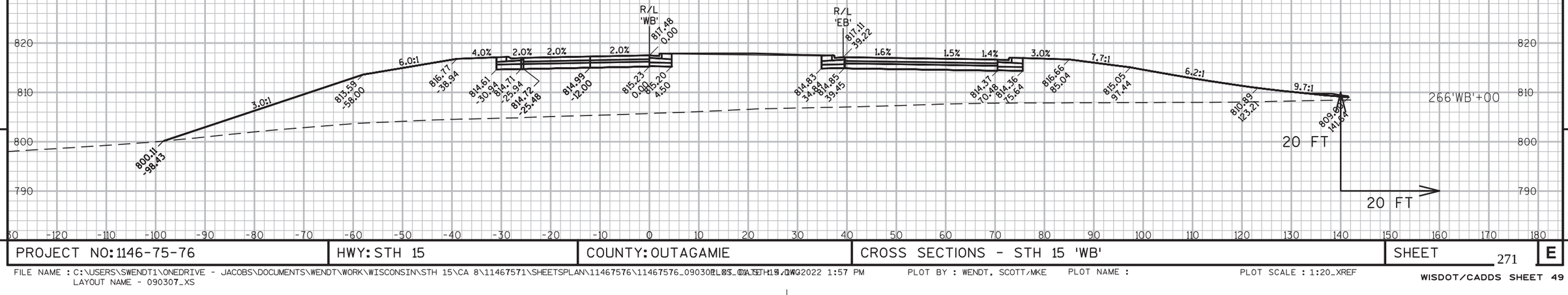
PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 269	E



9 9

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 270 E

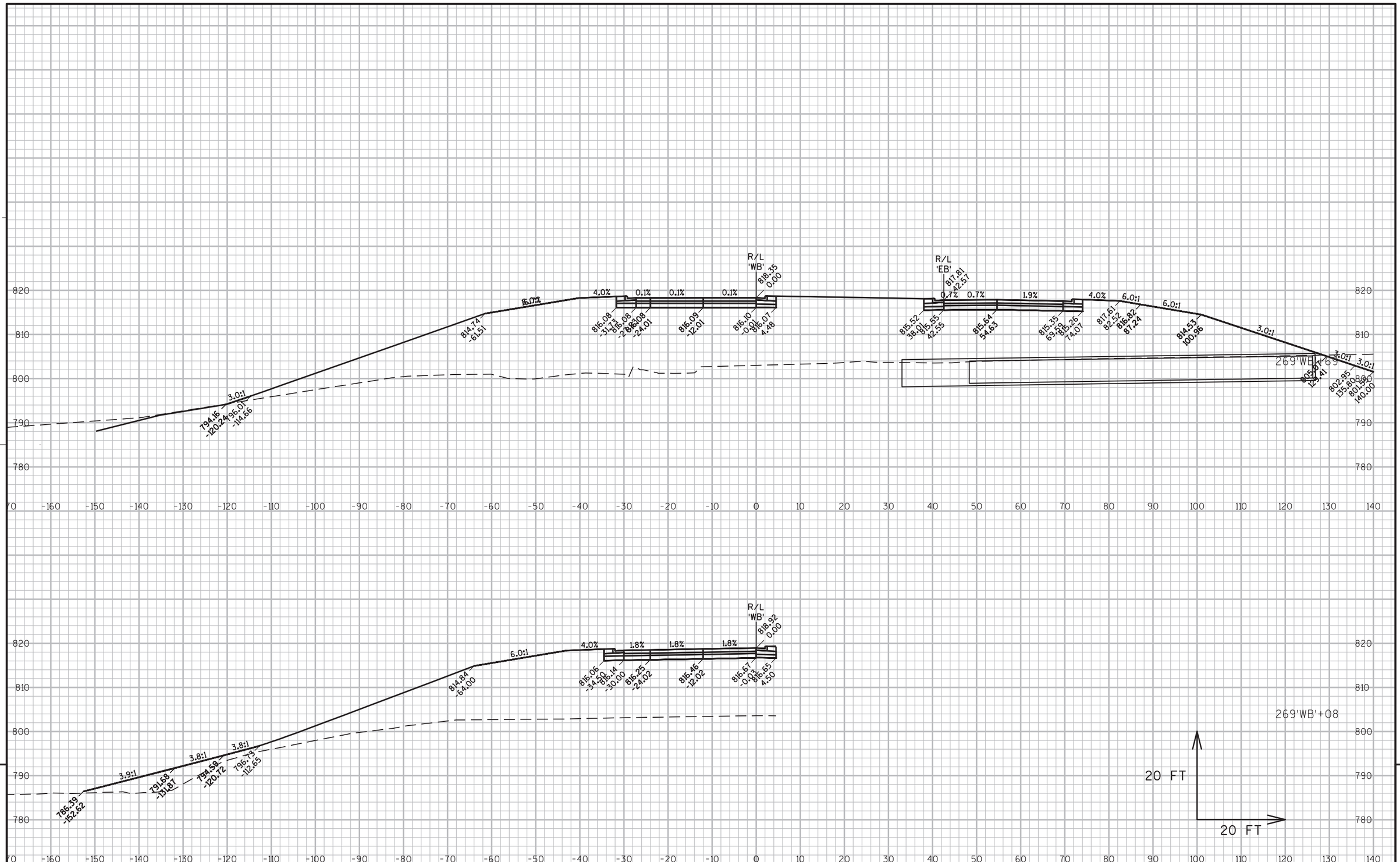




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PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 271	E

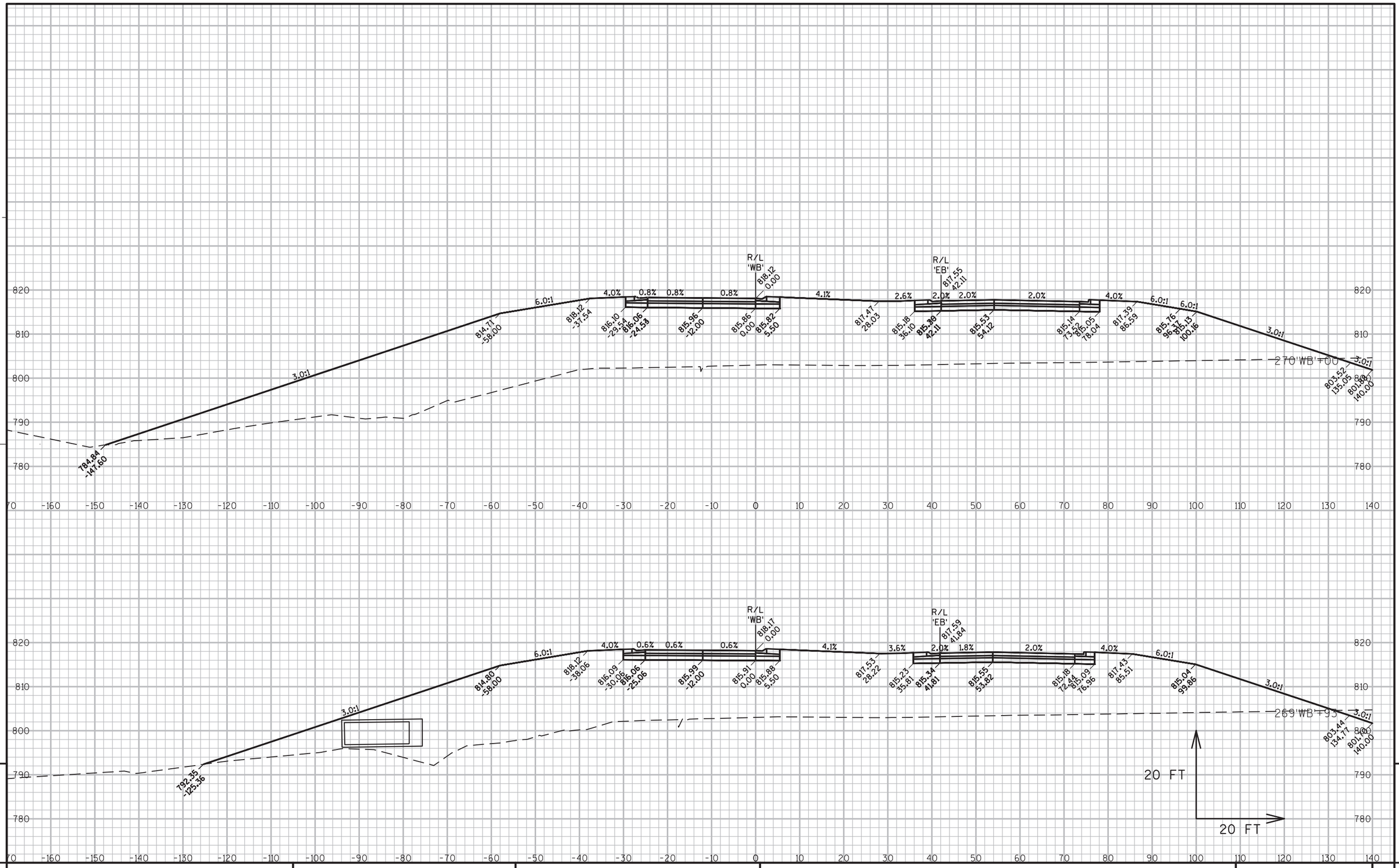


PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 272 E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_090308_XS_STH 15.DWG 12/19/2022 11:48 AM
LAYOUT NAME - 090308_XS

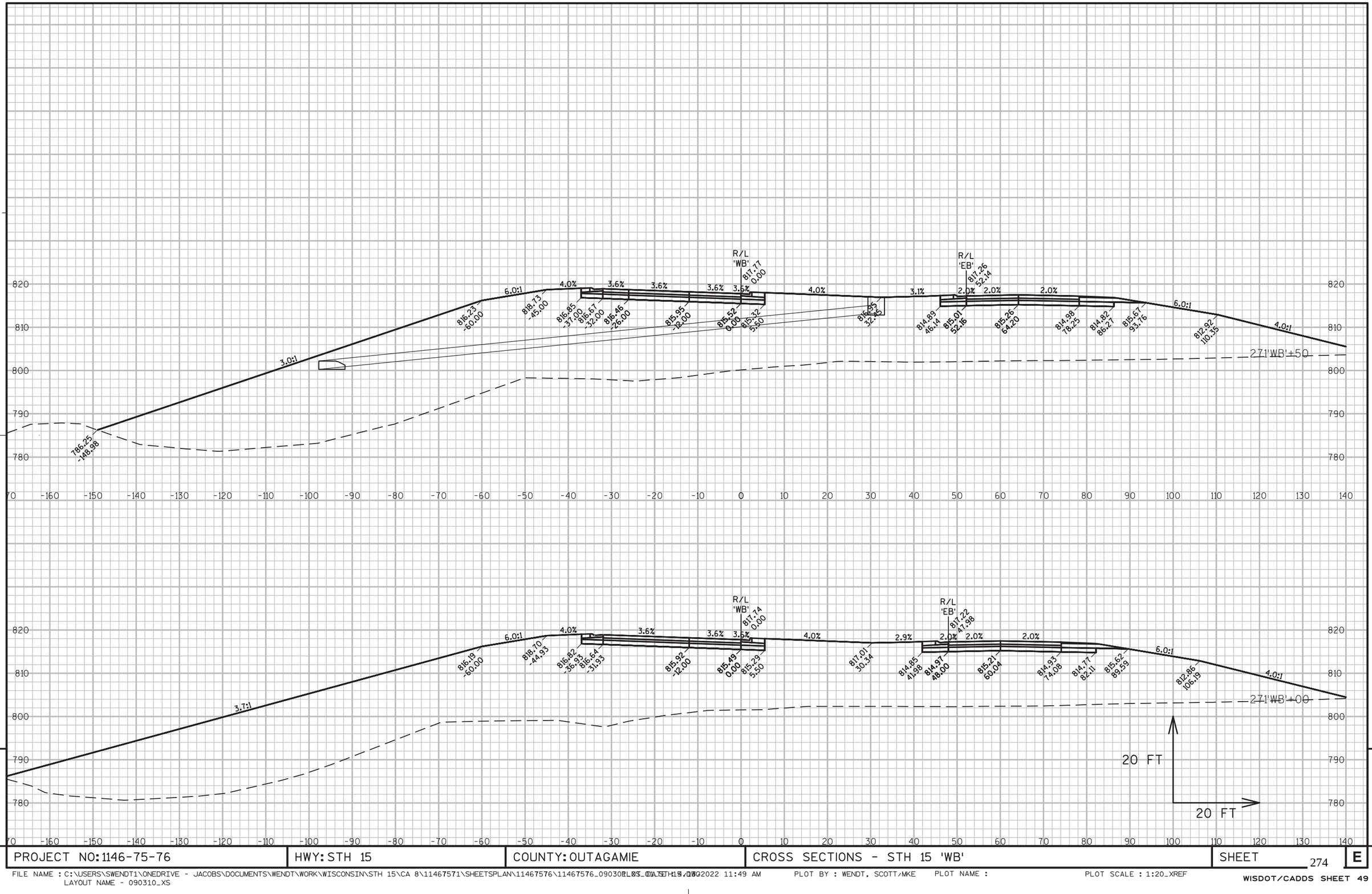
PLOT BY : WENDT, SCOTT/MKE PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 273	E

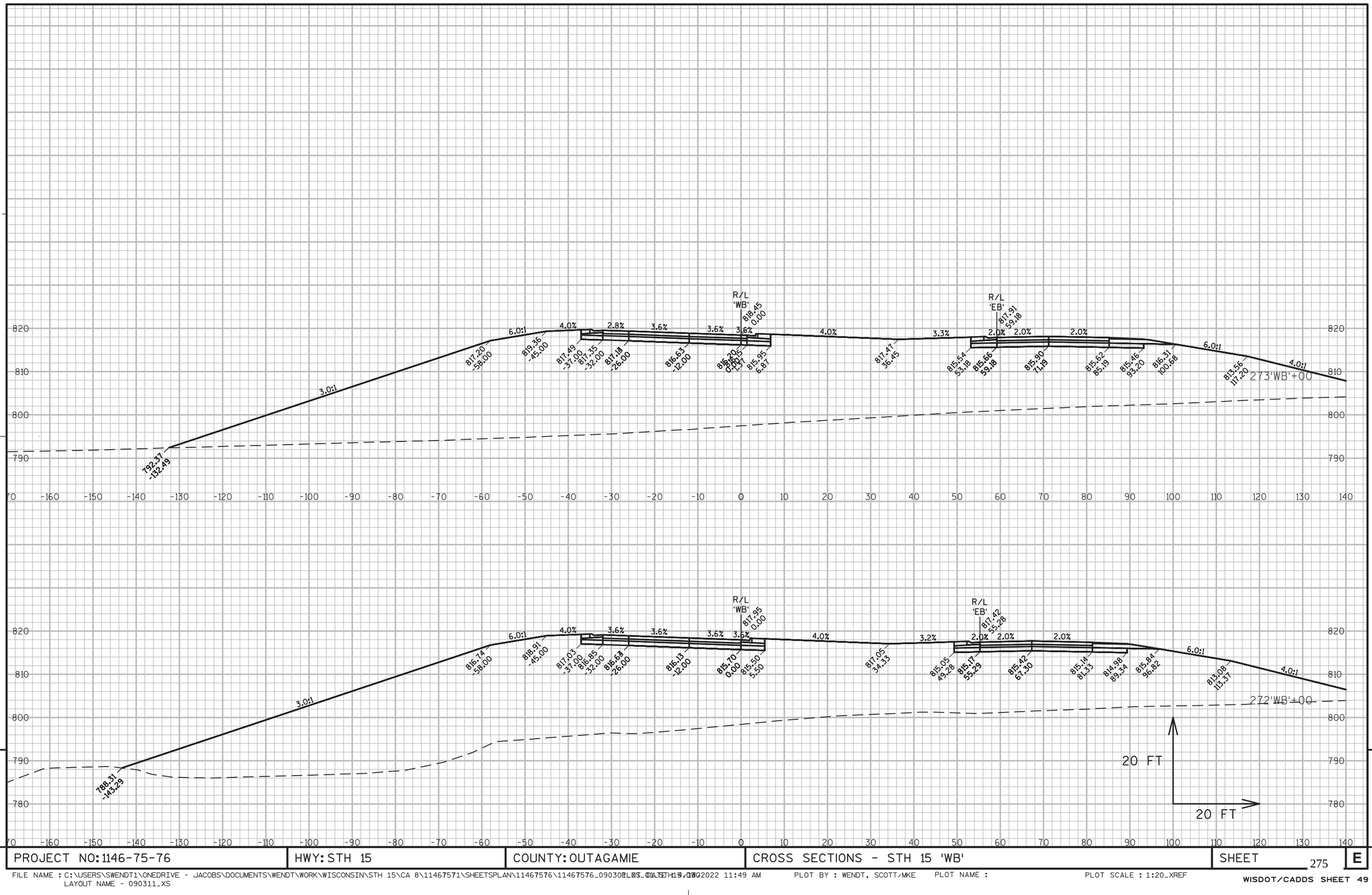
FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_090309_XS_STH 15.DWG
LAYOUT NAME - 090309_XS
PLOTTED : 19 DEC 2022 11:48 AM
PLOT BY : WENDT, SCOTT/MKE
PLOT NAME :
PLOT SCALE : 1:20_XREF



9

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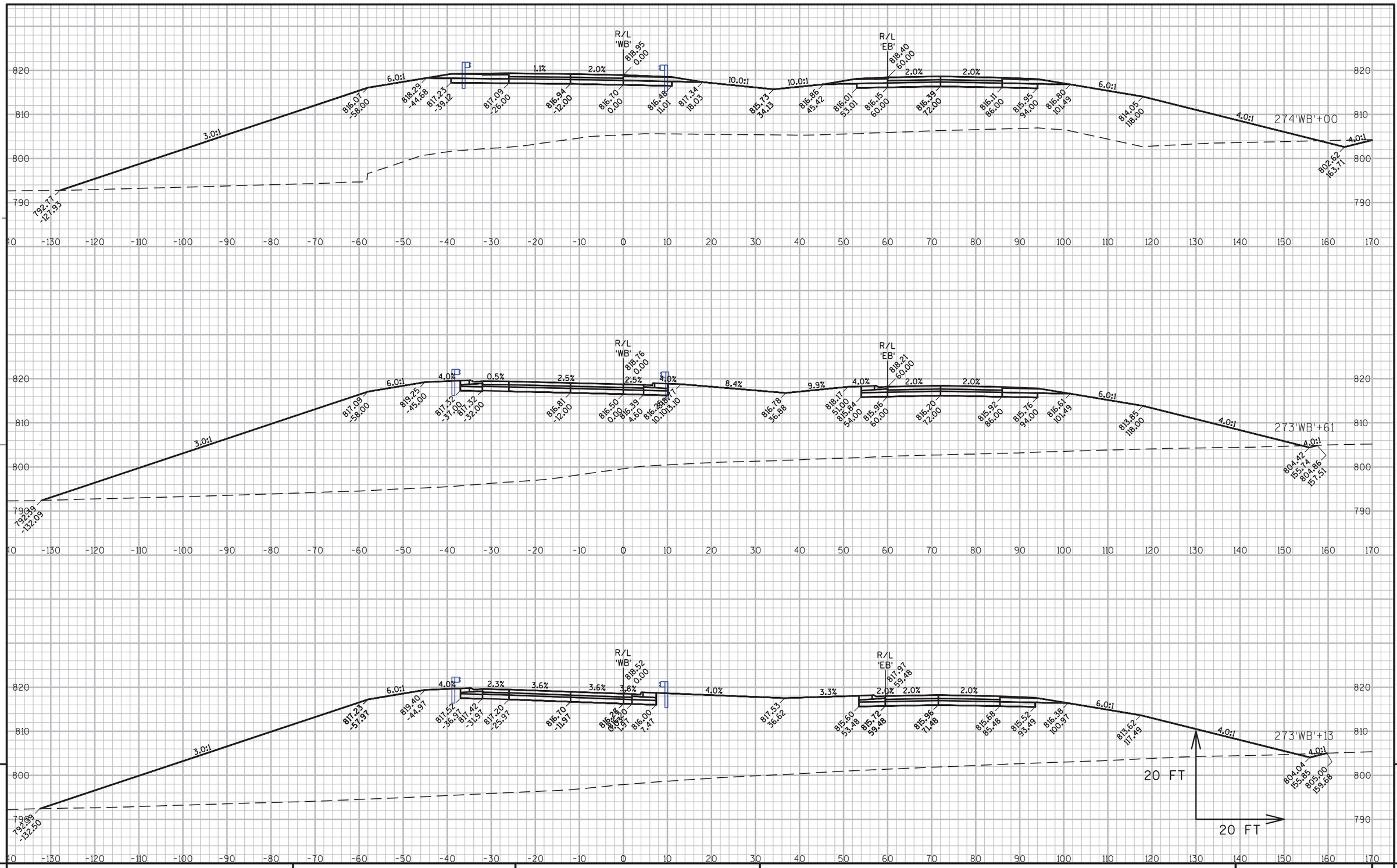
PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 274	E



PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 275	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_090311_XS_DATA_STH 15.DWG 2022 11:49 AM PLOT BY : WENDT, SCOTT/MKE PLOT NAME : PLOT SCALE : 1:20_XREF
LAYOUT NAME - 090311_XS

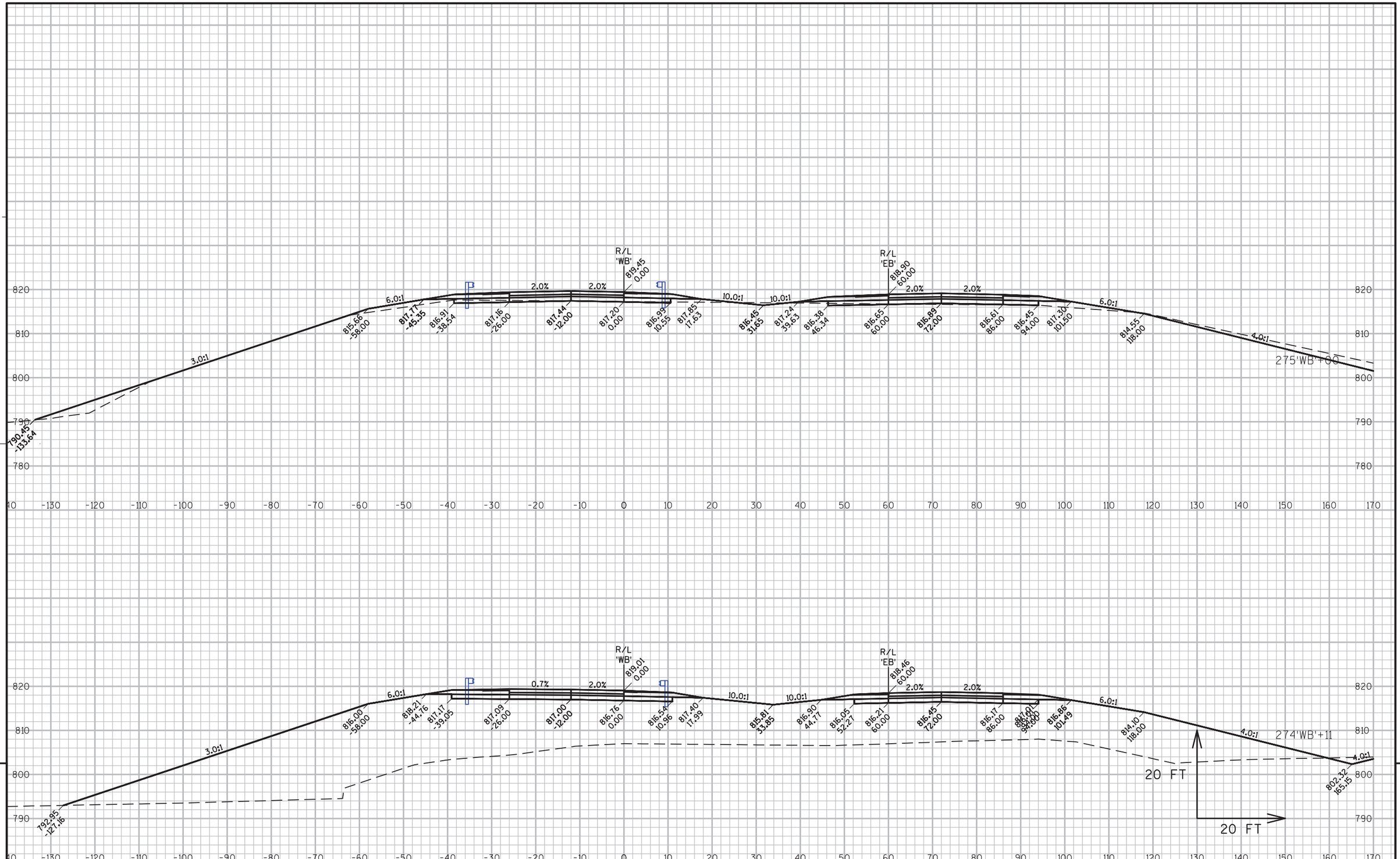
WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 276 E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_090312_XS_STH 15.DWG 12/19/2022 11:40 AM
LAYOUT NAME - 090312_XS
PLOT BY : WENDT, SCOTT/MKE PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



9

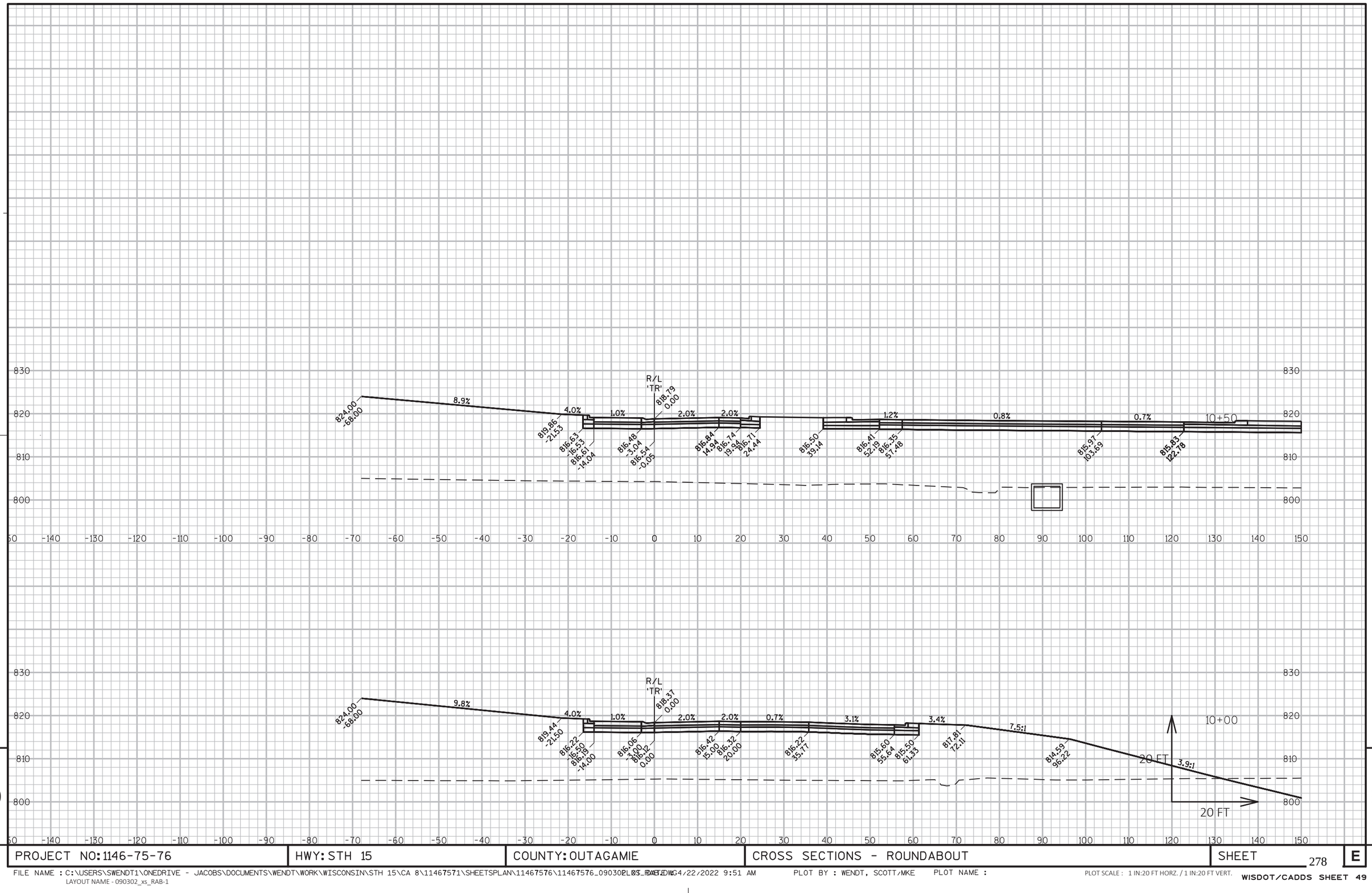
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PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 277	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_09030PLRS_DIA.DGN 19/08/2022 11:40 AM
LAYOUT NAME - 090313_XS

PLOT BY : WENDT, SCOTT/MKE PLOT NAME : PLOT SCALE : 1" = 20'_XREF

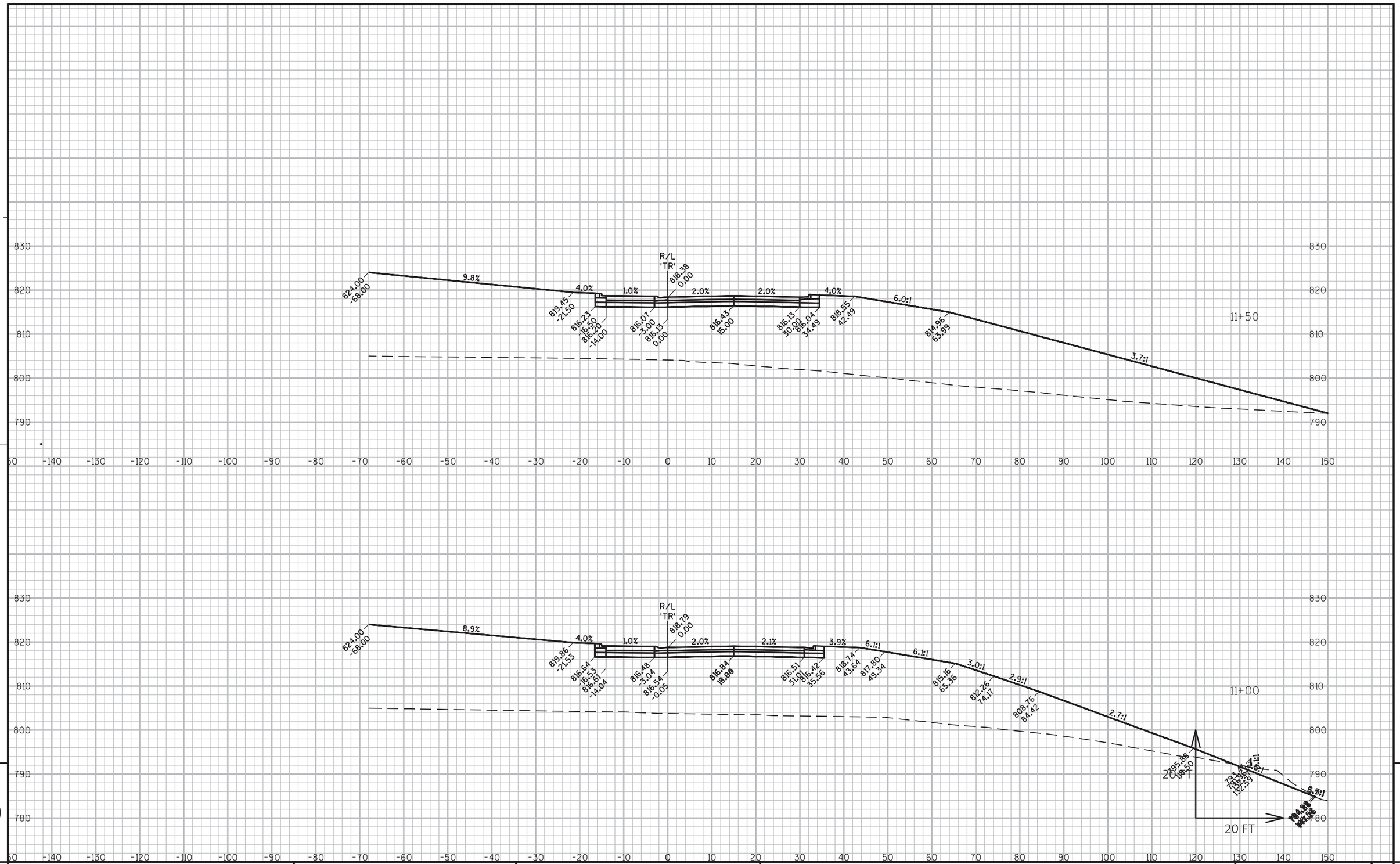
WISDOT/CADDS SHEET 49



9

9

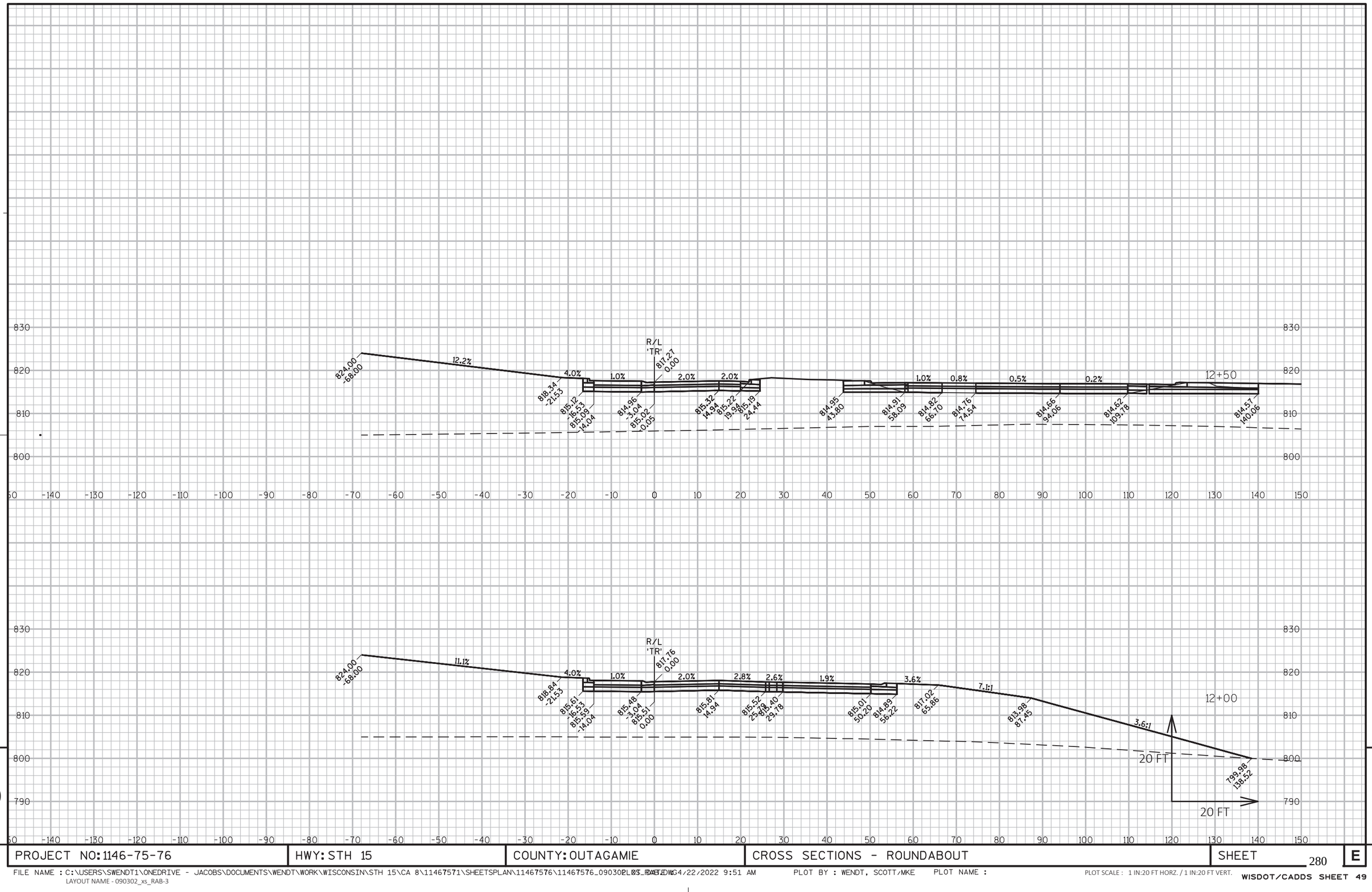
PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - ROUNDABOUT	SHEET 278	E



9

9

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - ROUNDABOUT	SHEET 279	E

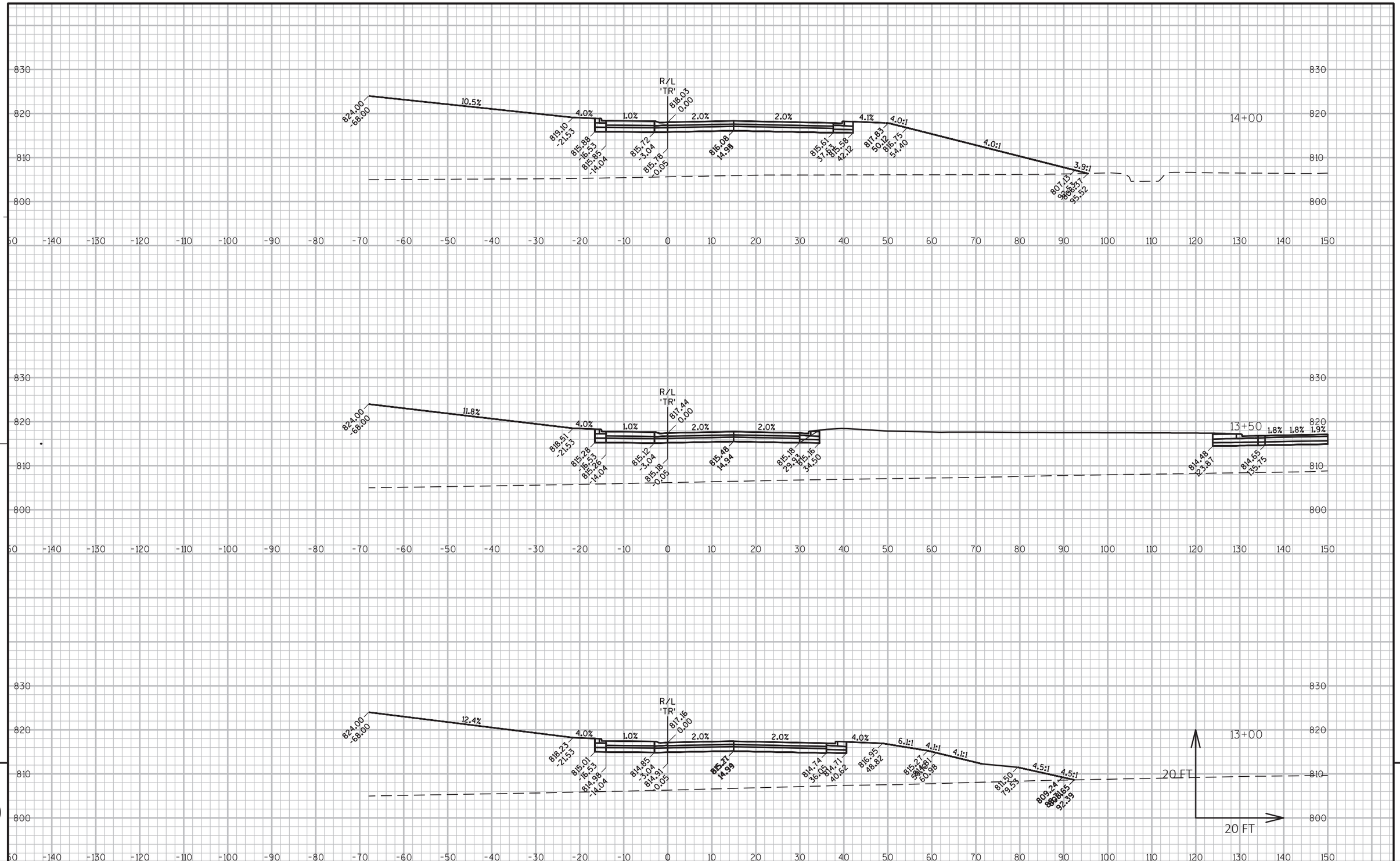


PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - ROUNDABOUT	SHEET 280	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_090302_XS_RAB.DWG 4/22/2022 9:51 AM PLOT BY : WENDT, SCOTT/MKE PLOT NAME :
LAYOUT NAME - 090302_xs_RAB-3

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

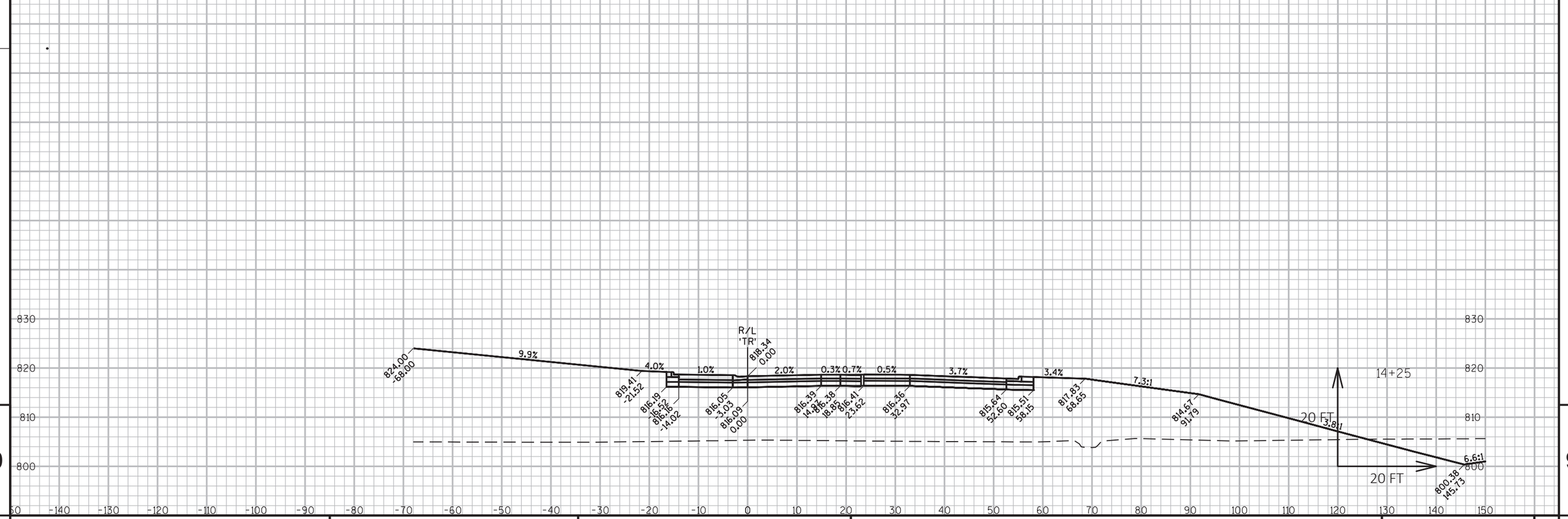
WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - ROUNDABOUT	SHEET 281	E

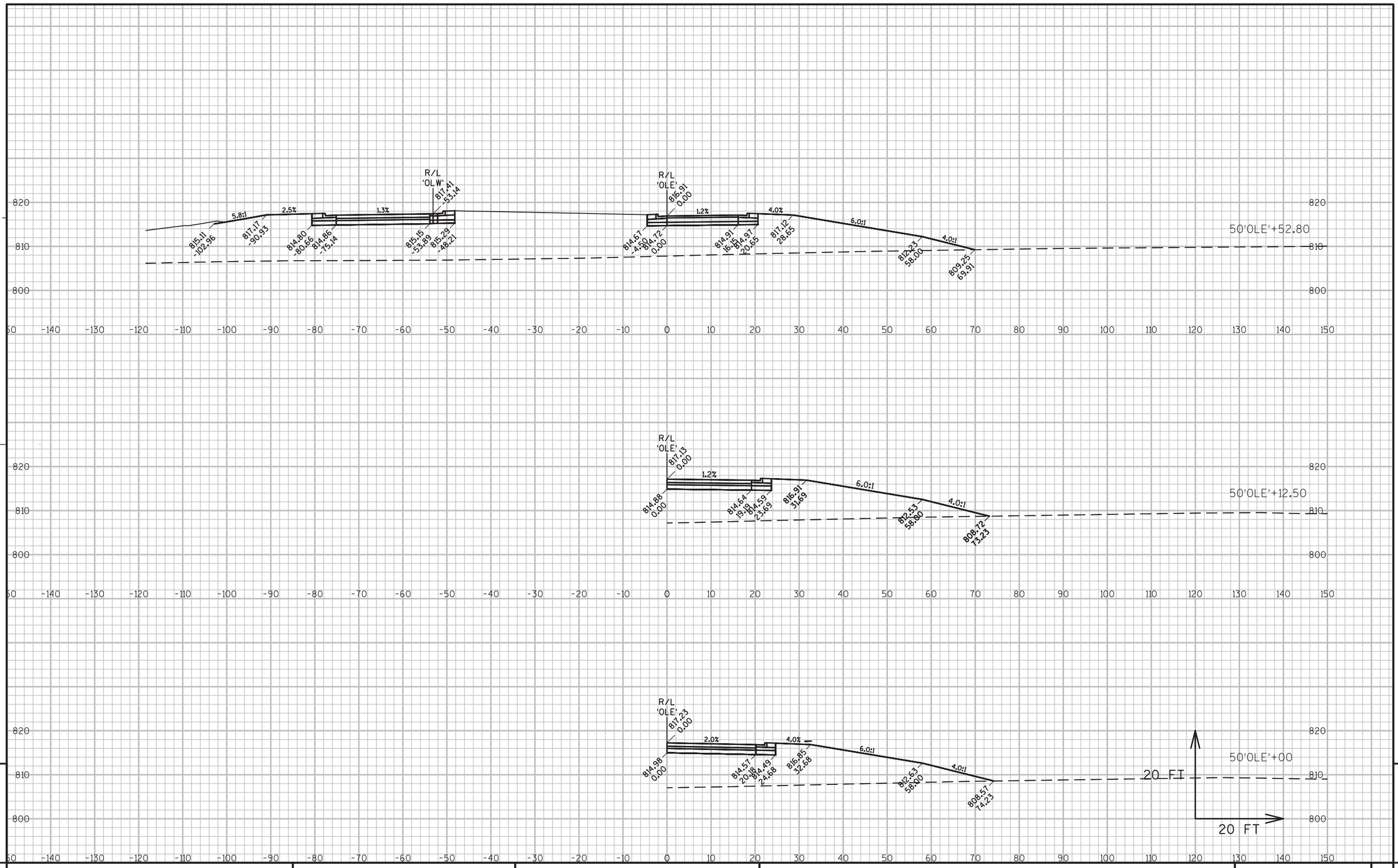


9

9

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - ROUNDABOUT	SHEET 282	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_090302_XS_RAB5.DWG 4/22/2022 9:52 AM PLOT BY : WENDT, SCOTT/MKE PLOT NAME :
LAYOUT NAME - 090302_xs_RAB-5
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.
WISDOT/CADDS SHEET 49



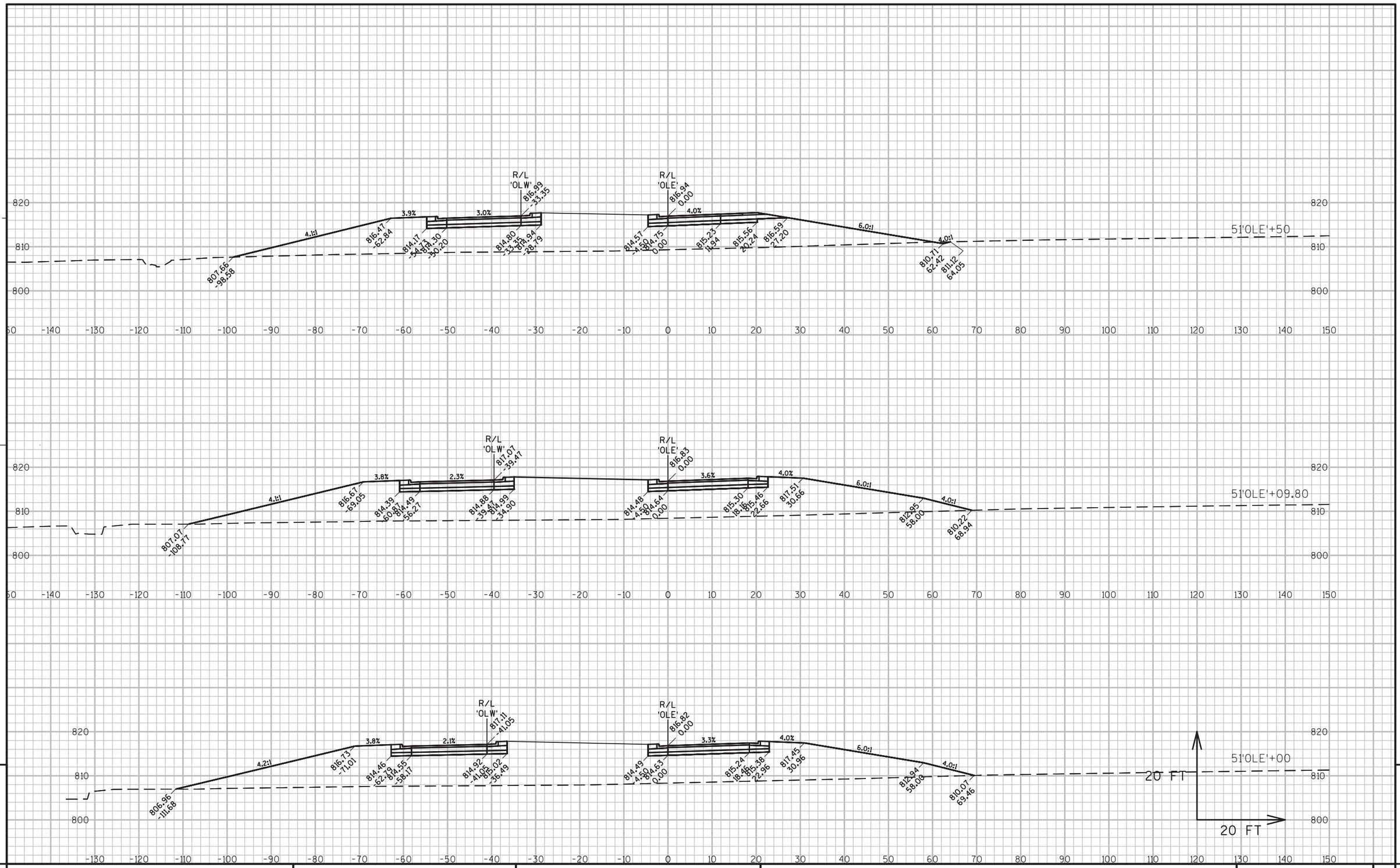
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PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: OLD STH 15 WEST - EB	SHEET 283	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_090401_XS.DWG
LAYOUT NAME - 090401_XS
DATE : 10/6/2022 3:01 PM
PLOT BY : WENDT, SCOTT/MKE
PLOT NAME :
PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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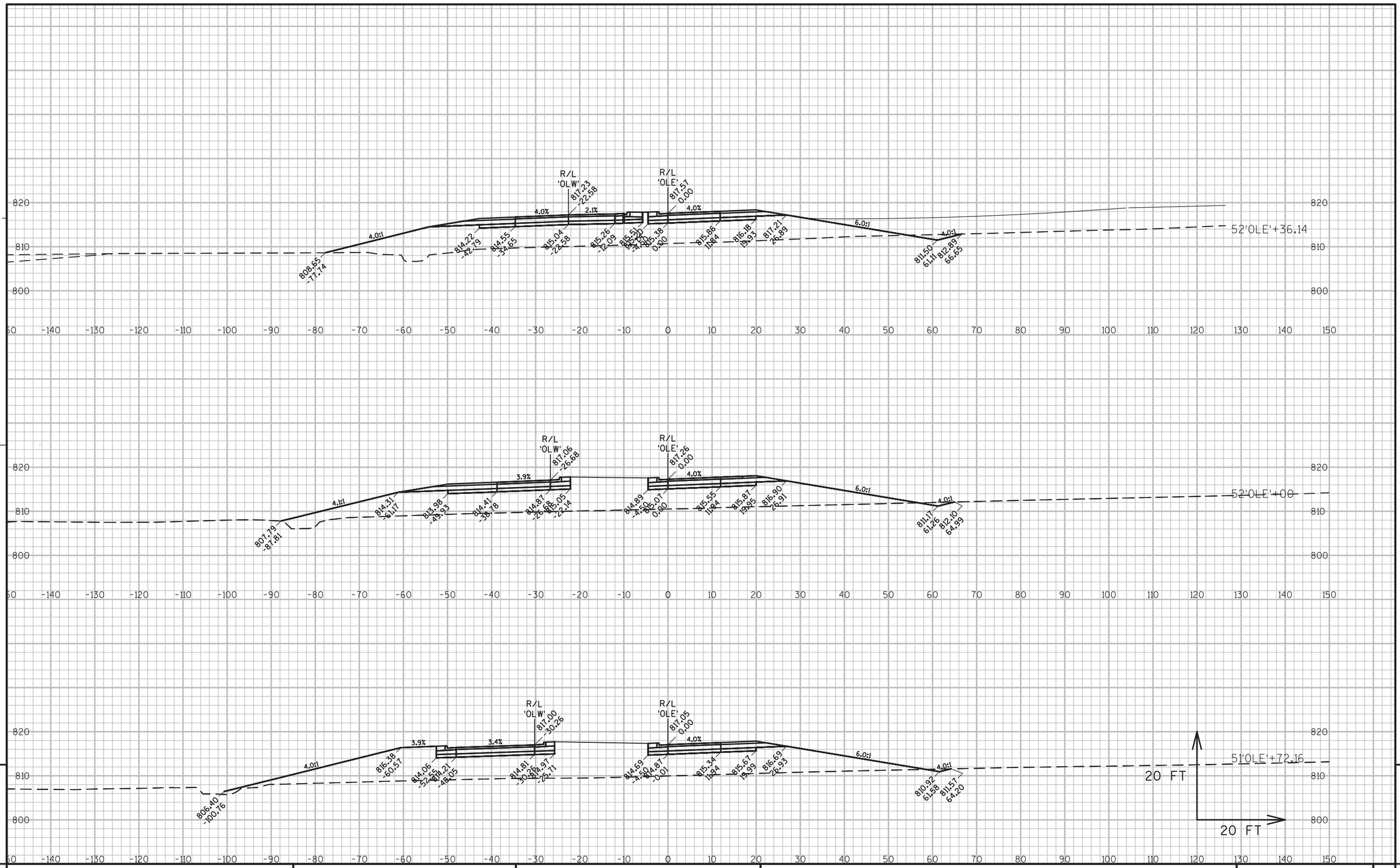
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PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: OLD STH 15 WEST - EB	SHEET 284	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_090402_XS.DWG DATE : 9/6/2022 3:02 PM
LAYOUT NAME - 090402_XS

PLOT BY : WENDT, SCOTT/MKE PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



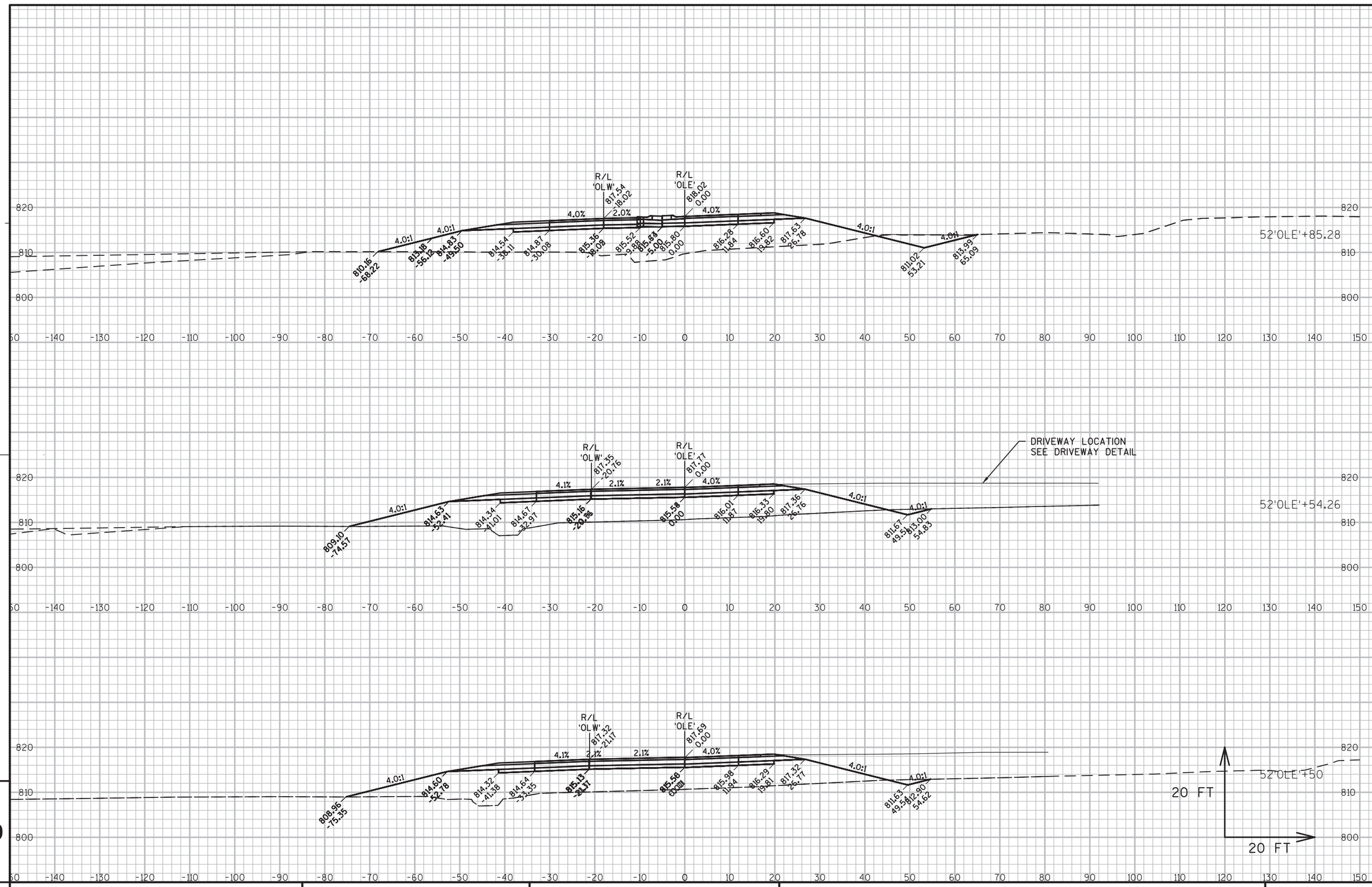
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PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: OLD STH 15 WEST - EB	SHEET 285	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_090403_XS.DWG
LAYOUT NAME - 090403_XS
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PLOT BY : WENDT, SCOTT/MKE
PLOT NAME :
PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



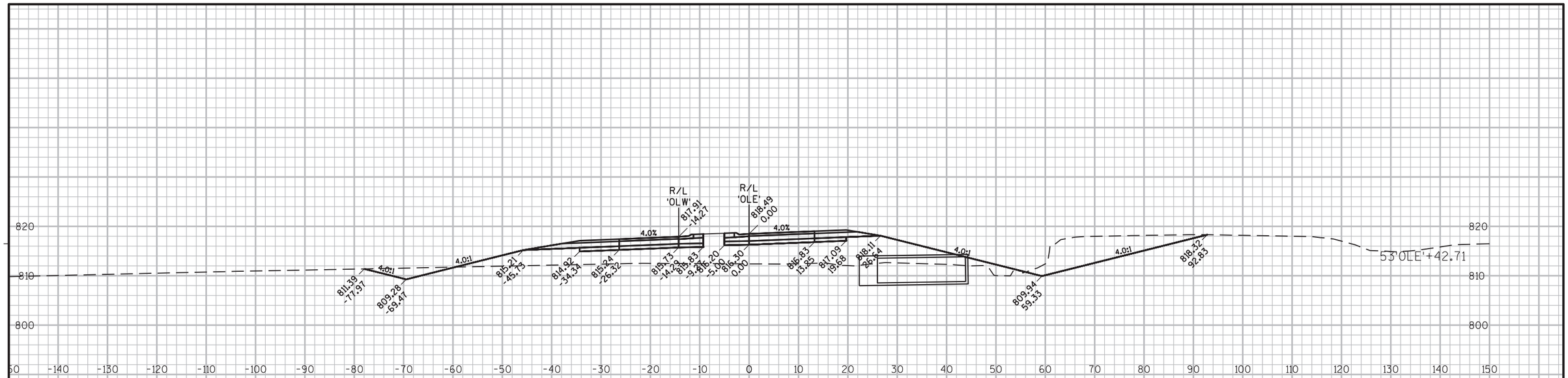
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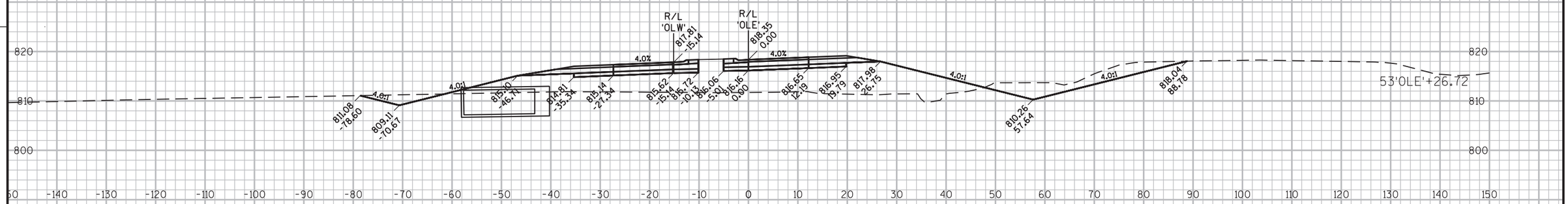
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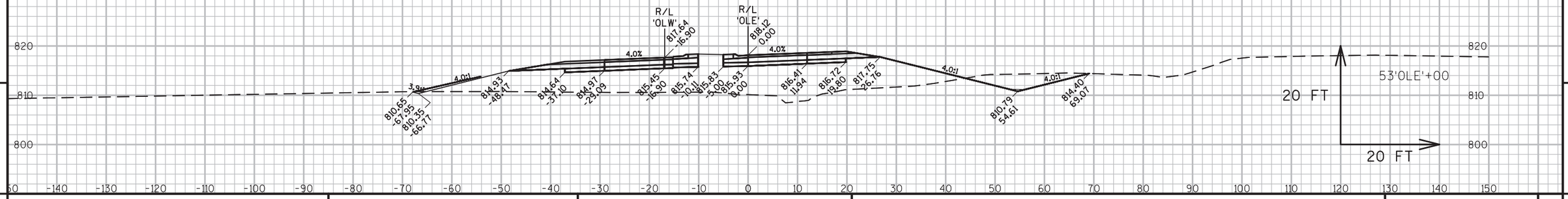
PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: OLD STH 15 WEST - EB	SHEET 286	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_090404_XS.DWG
LAYOUT NAME - 090404_XS
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PLOT BY : WENDT, SCOTT/MKE
PLOT NAME :
PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49







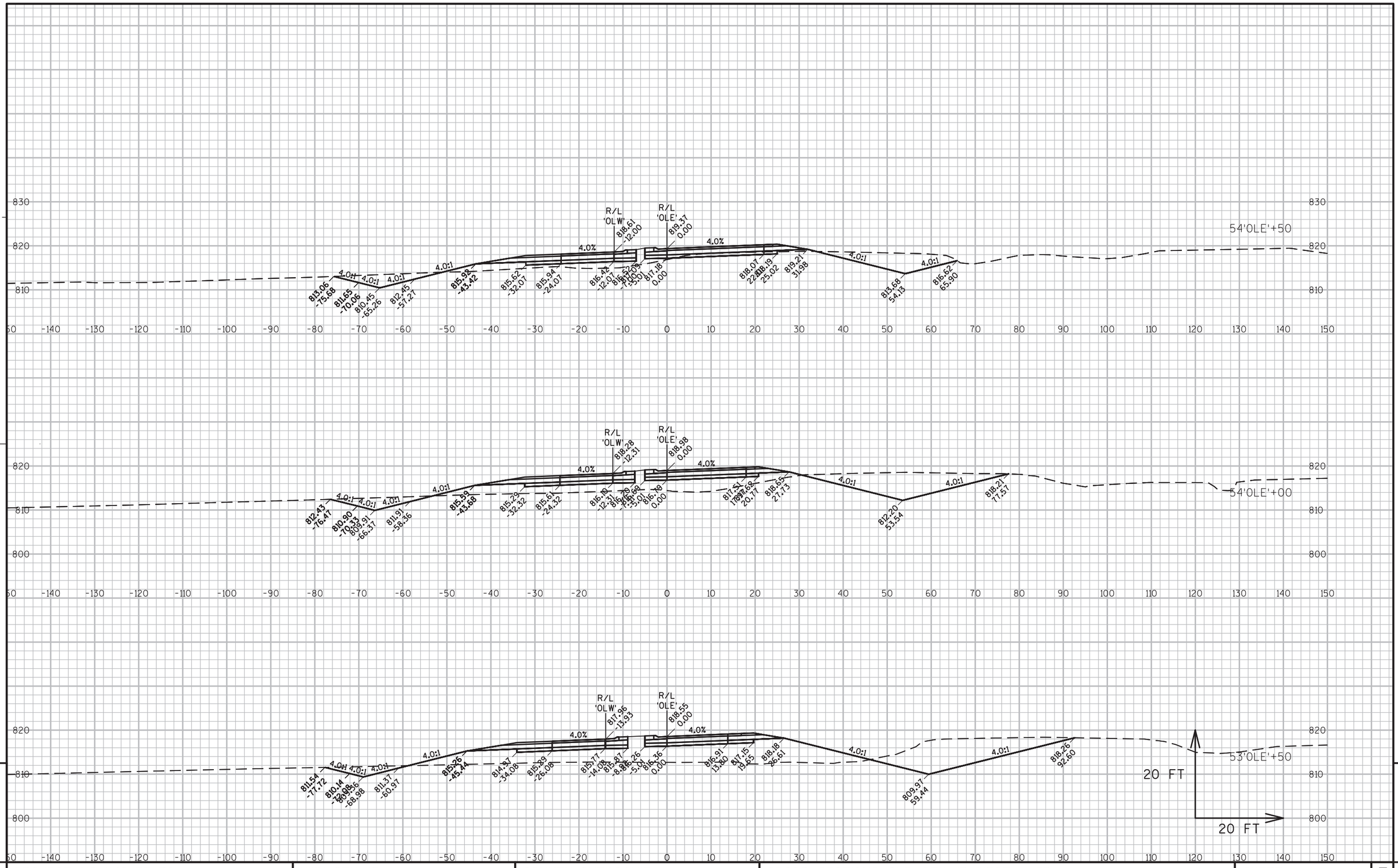
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PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: OLD STH 15 WEST - EB	SHEET 287	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_090405_XS.DWG
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PLOT NAME :
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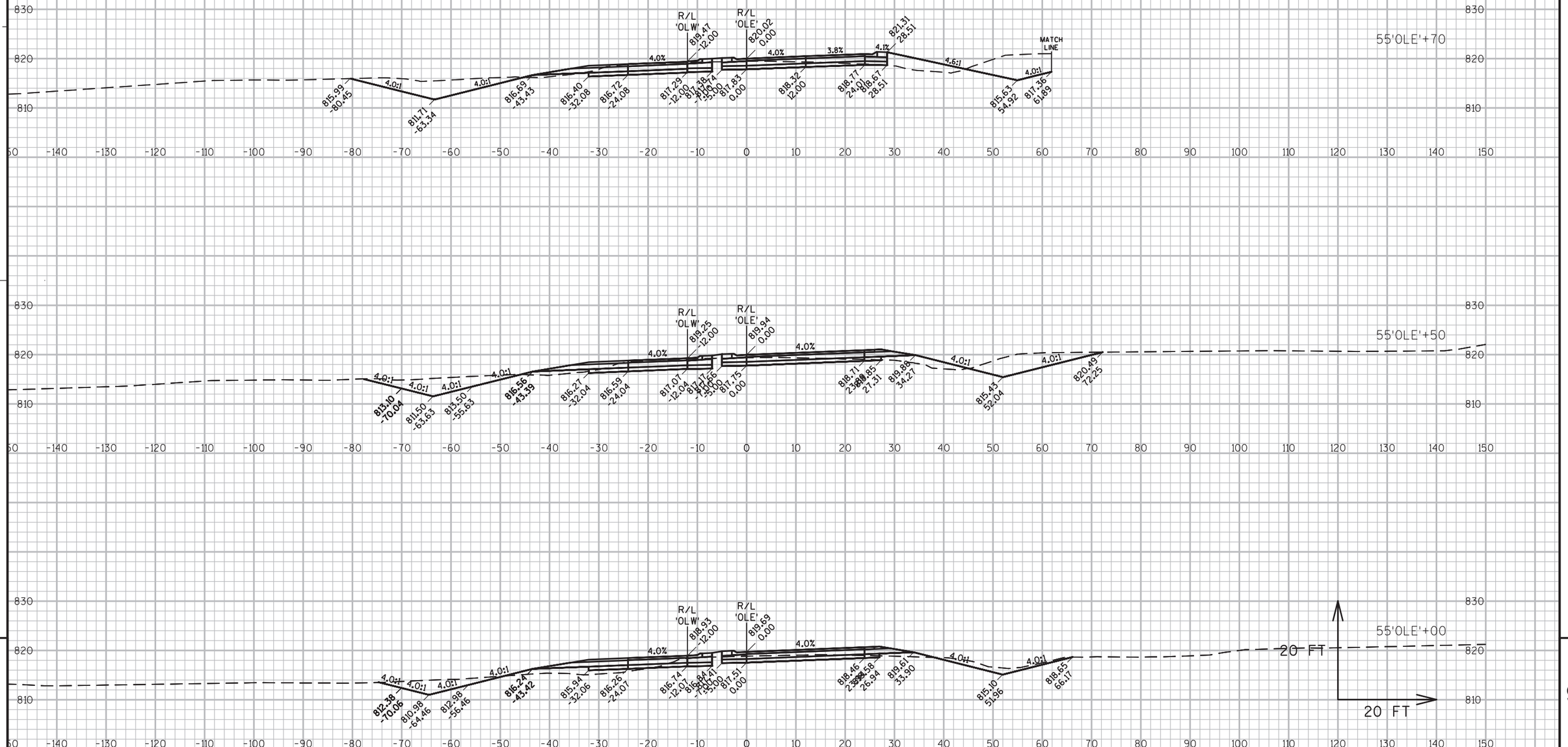
WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: OLD STH 15 WEST - EB	SHEET 288	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_090406_XS.DWG
LAYOUT NAME - 090406_XS
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PLOT NAME :
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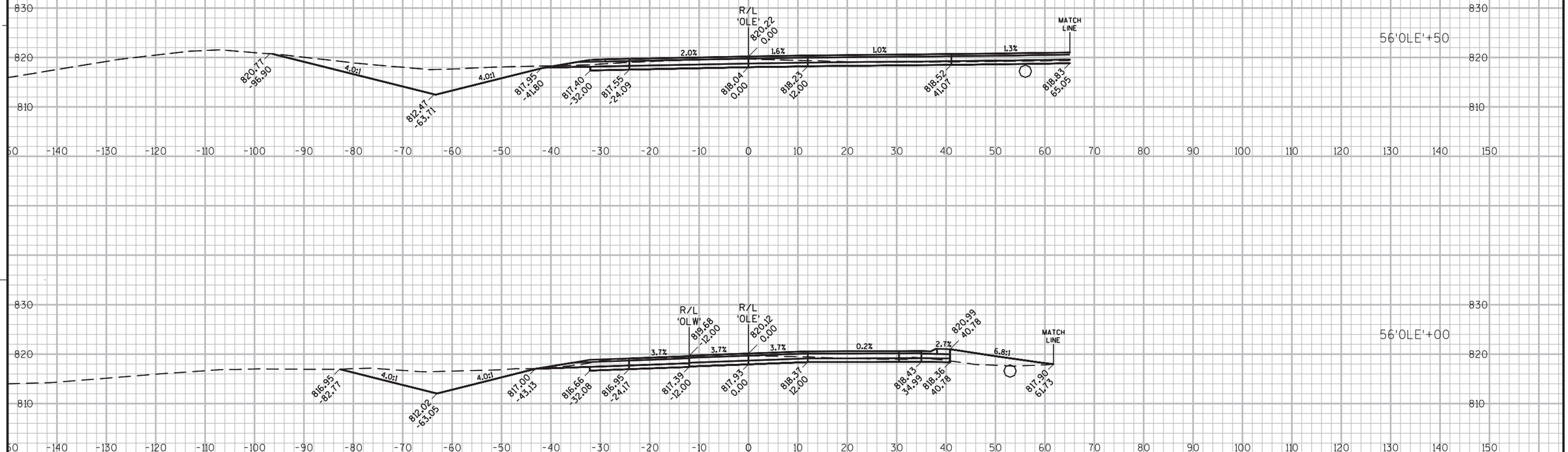
WISDOT/CADDS SHEET 49



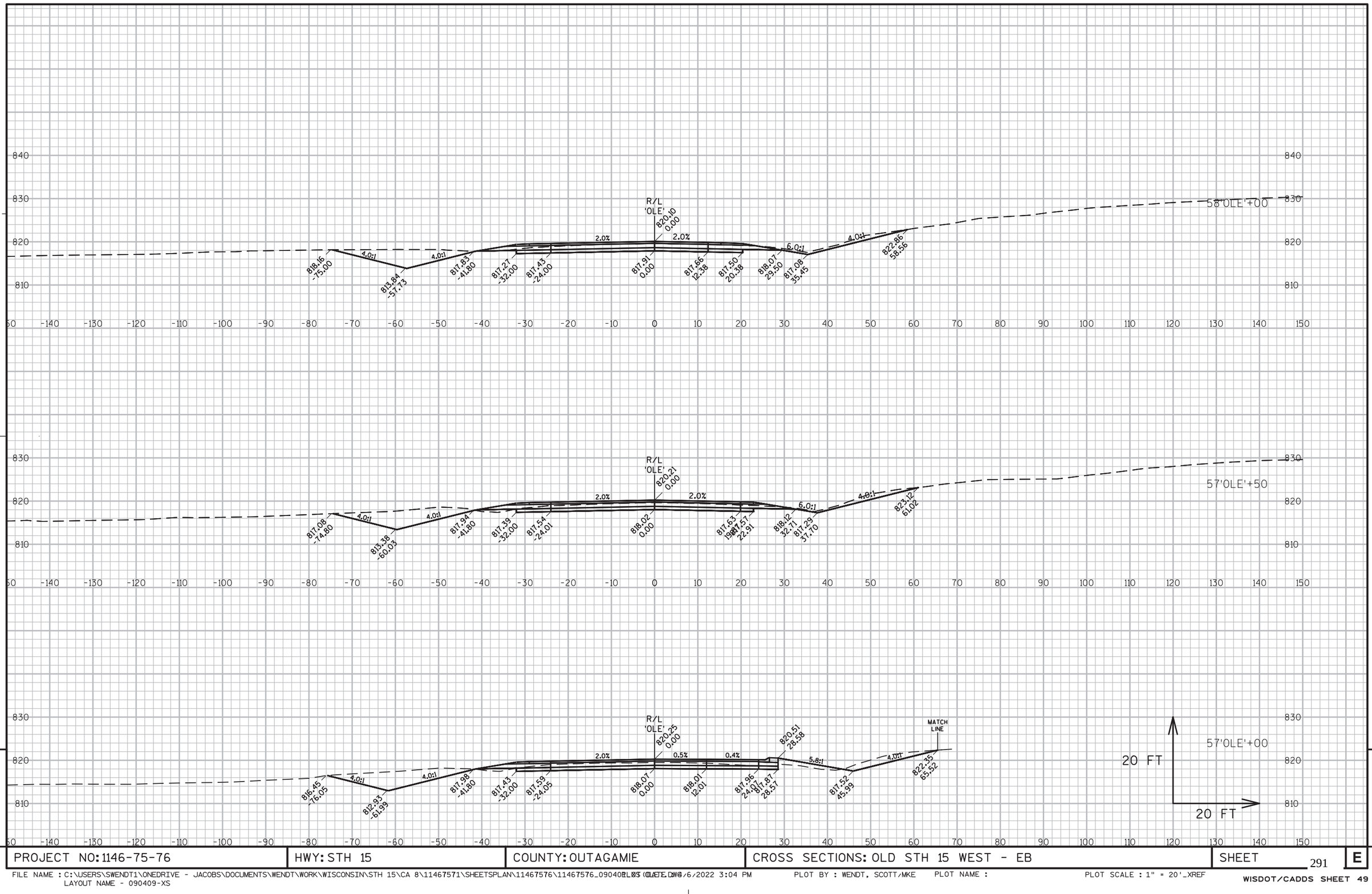
PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: OLD STH 15 WEST - EB	SHEET 289 E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_090407.DGN (DATE: 8/22/2022 1:45 PM
LAYOUT NAME - 090407_XS
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WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: OLD STH 15 WEST - EB	SHEET 290	E



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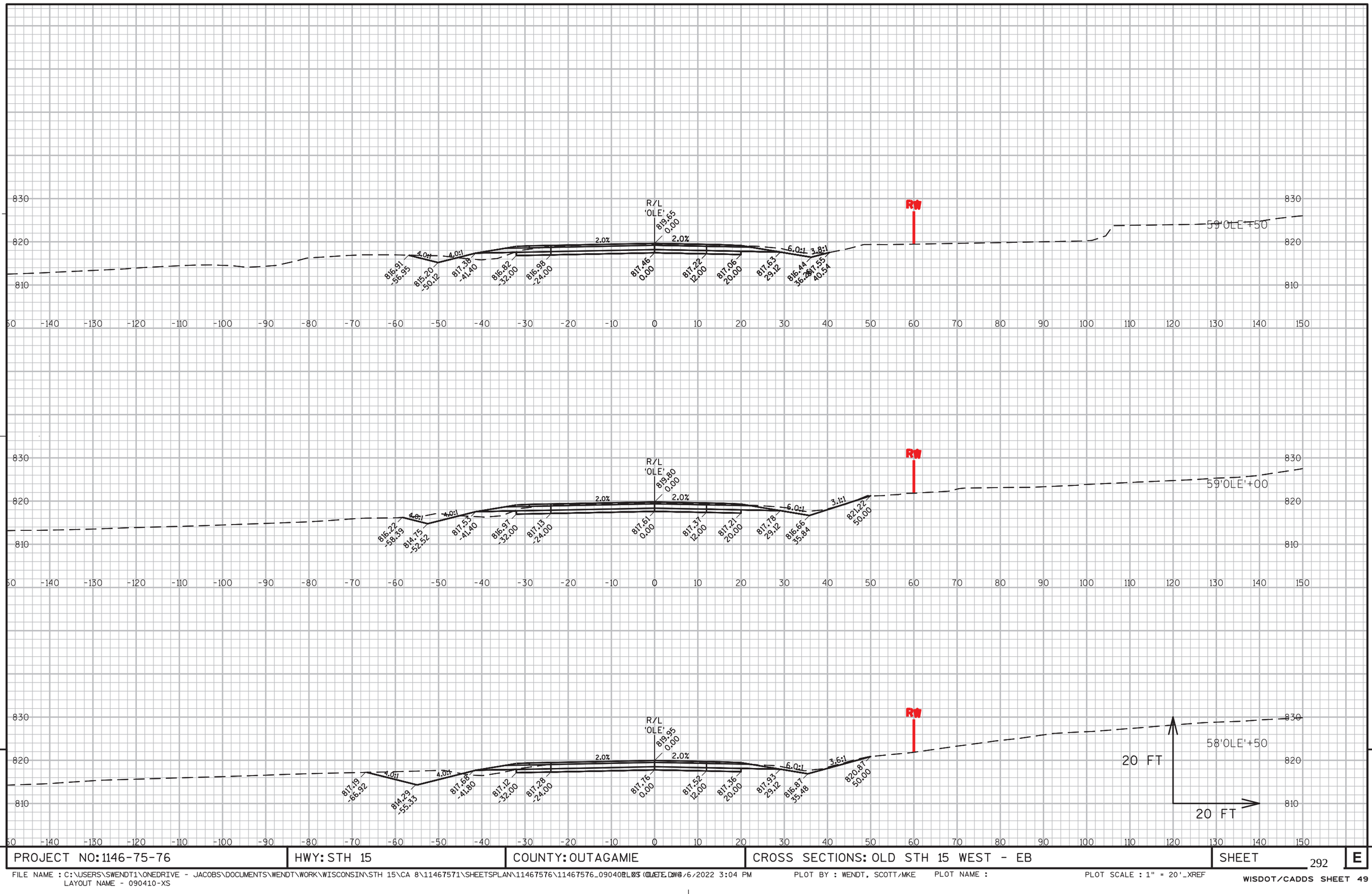
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PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: OLD STH 15 WEST - EB	SHEET 291	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_090409_XS_OLE.DWG
LAYOUT NAME - 090409-XS

DATE : 6/6/2022 3:04 PM PLOT BY : WENDT, SCOTT/MKE PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



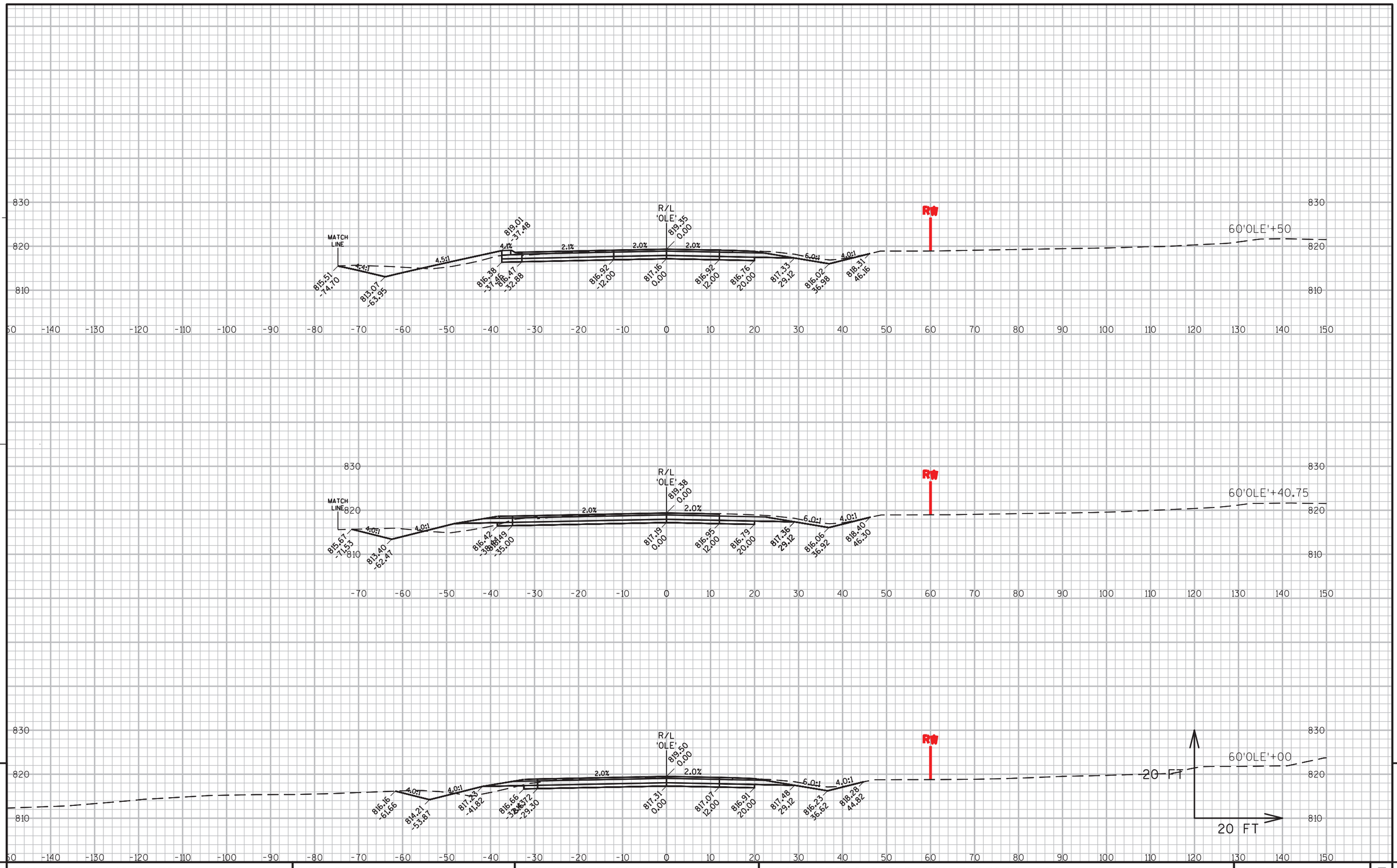
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PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: OLD STH 15 WEST - EB	SHEET 292	E

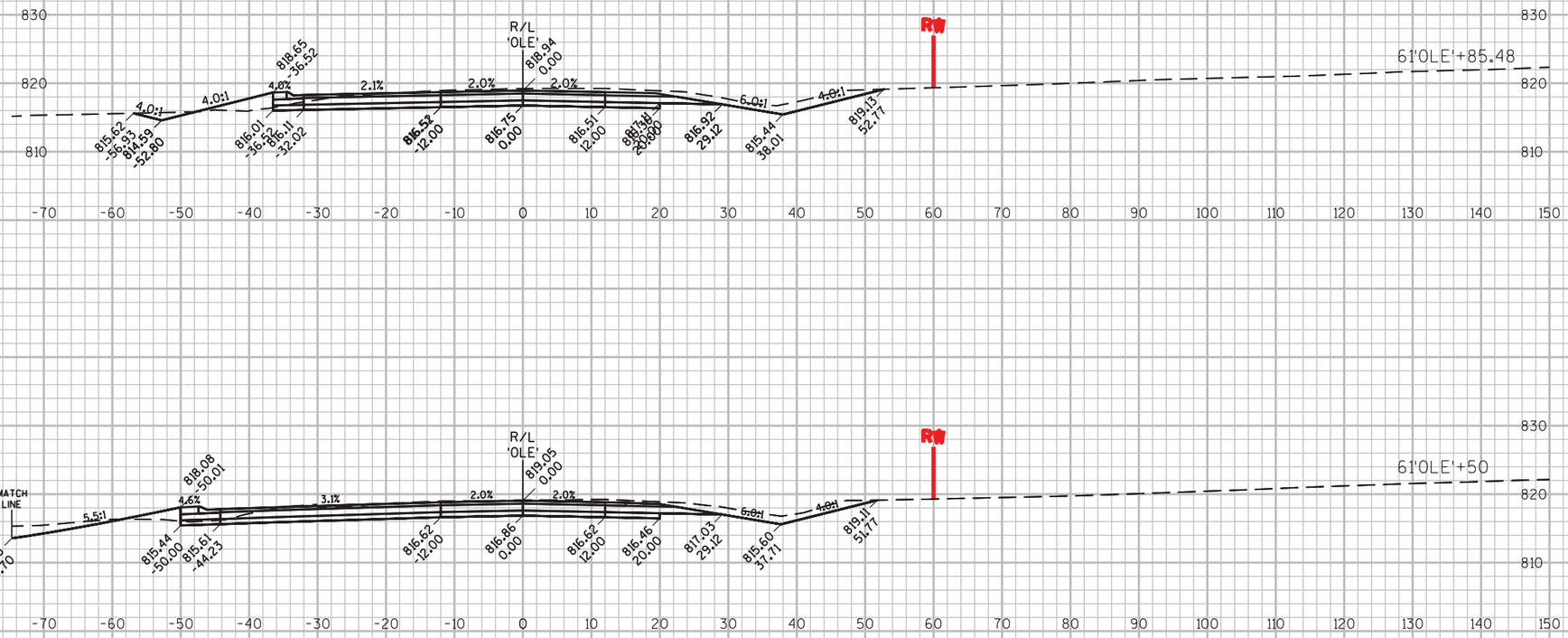
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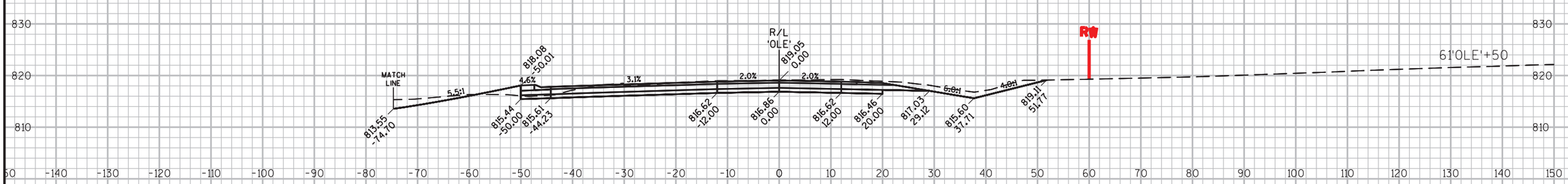
WISDOT/CADDS SHEET 49

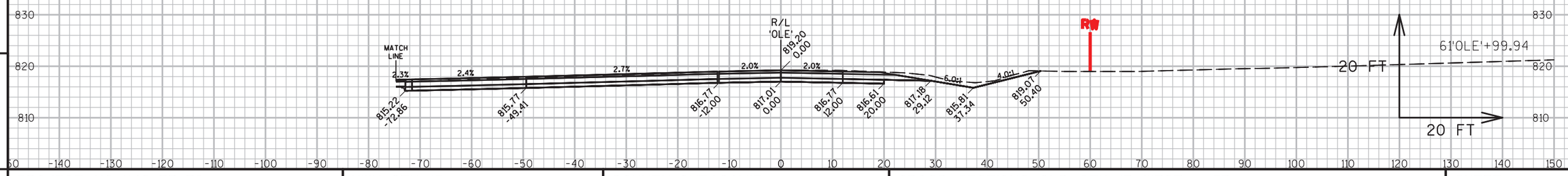


PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: OLD STH 15 WEST - EB	SHEET 293 E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_090401.DGN
LAYOUT NAME - 090411-XS
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PLOT BY : WENDT, SCOTT/MKE
PLOT NAME :
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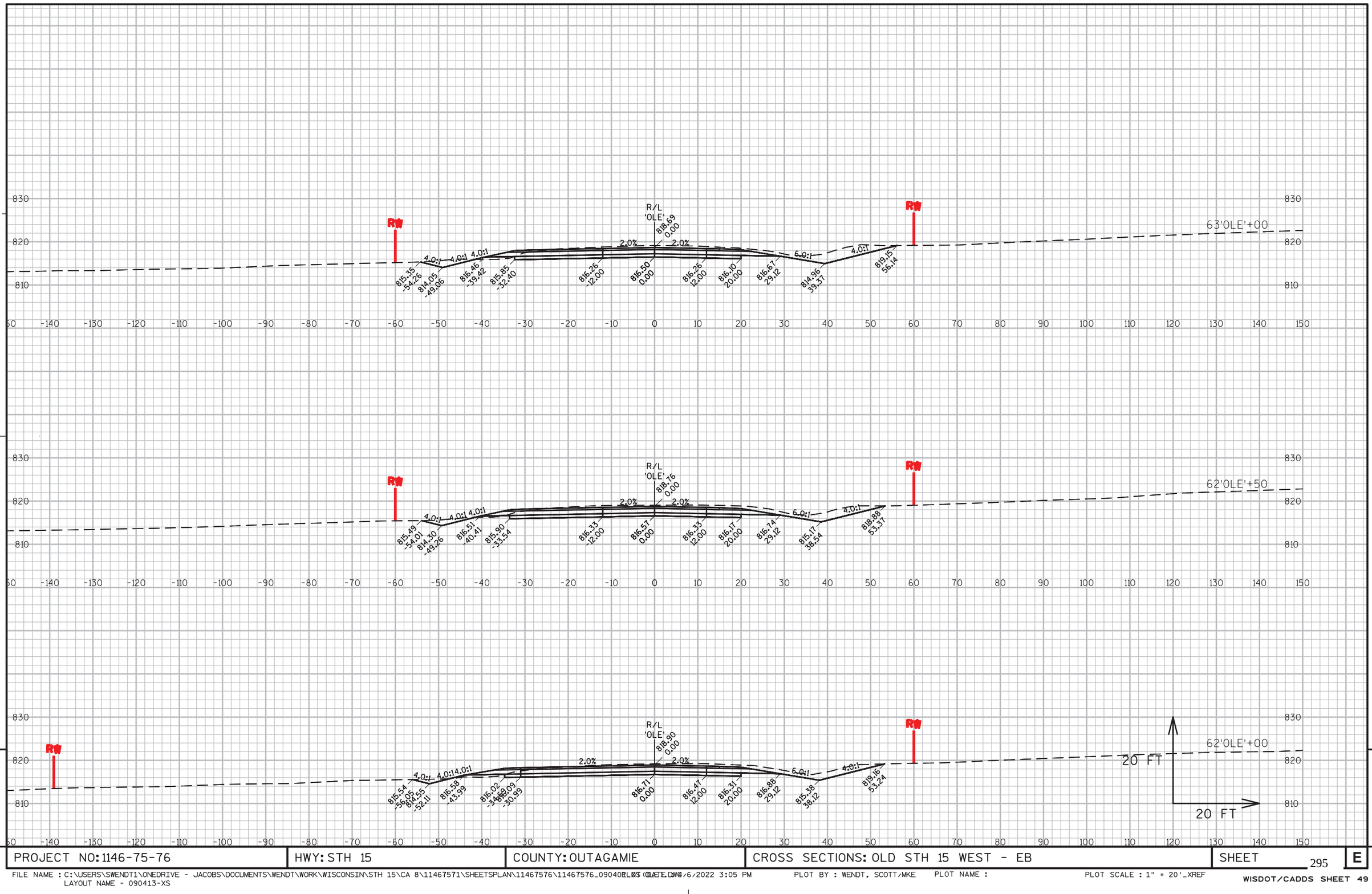
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PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: OLD STH 15 WEST - EB	SHEET 294	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_090412_XS (OLE).DWG 6/2022 3:05 PM
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WISDOT/CADDS SHEET 49



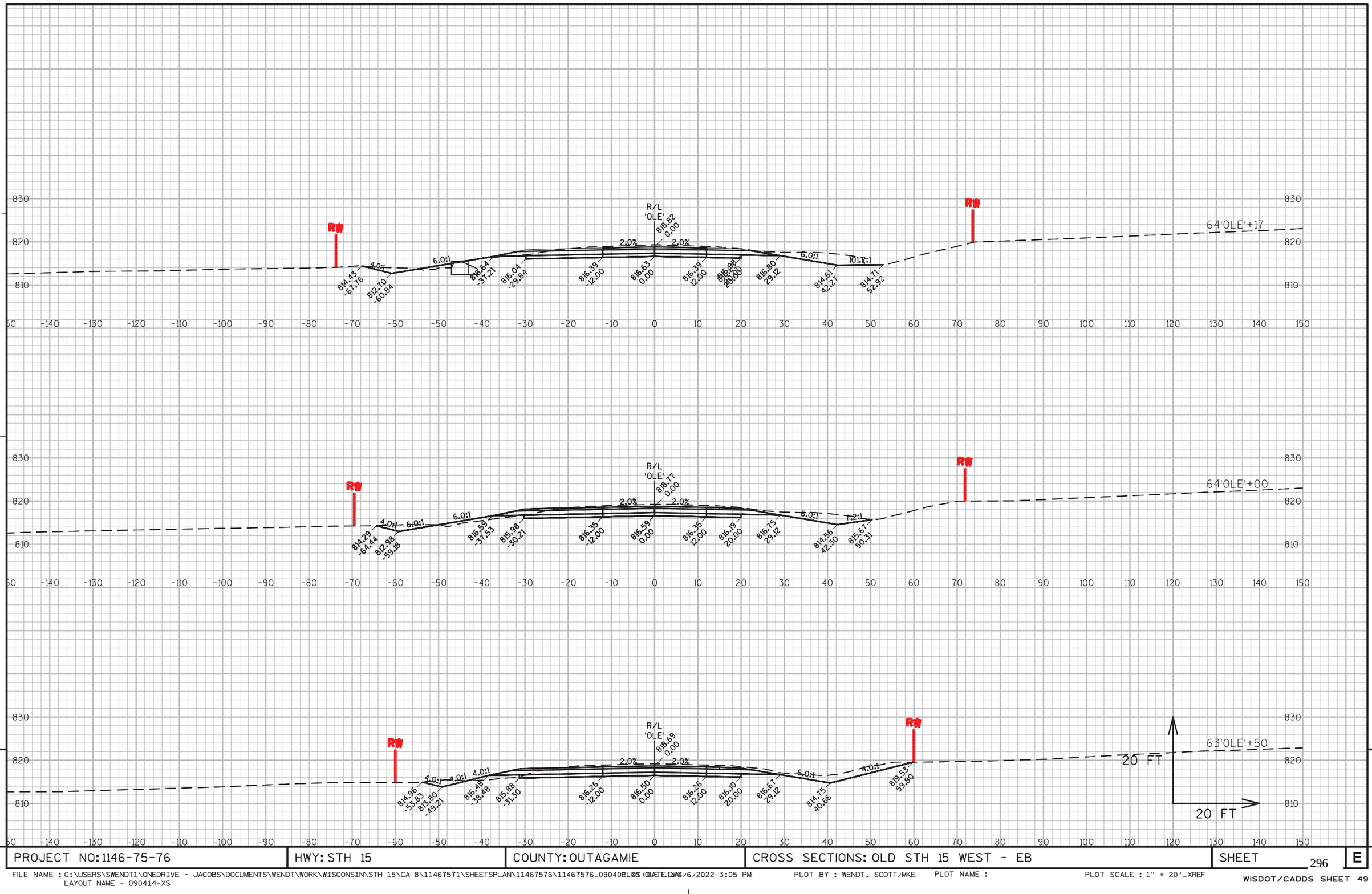
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PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: OLD STH 15 WEST - EB	SHEET 295	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_090401_XS_OLE.DWG
LAYOUT NAME - 090413-XS
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PLOT BY : WENDT, SCOTT/MKE
PLOT NAME :
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WISDOT/CADDS SHEET 49



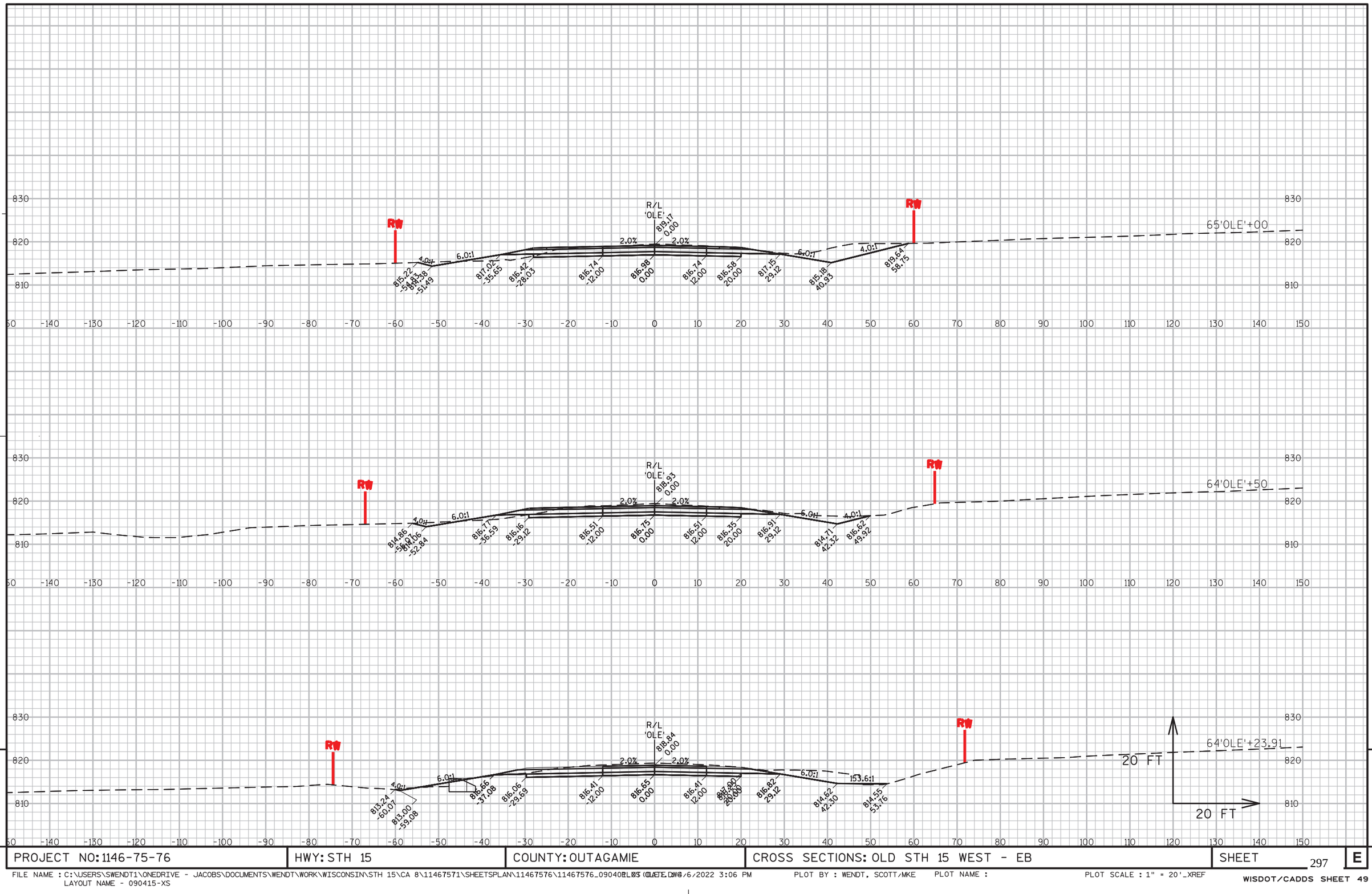
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PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: OLD STH 15 WEST - EB	SHEET 296	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_090402_XS_OLE.DWG
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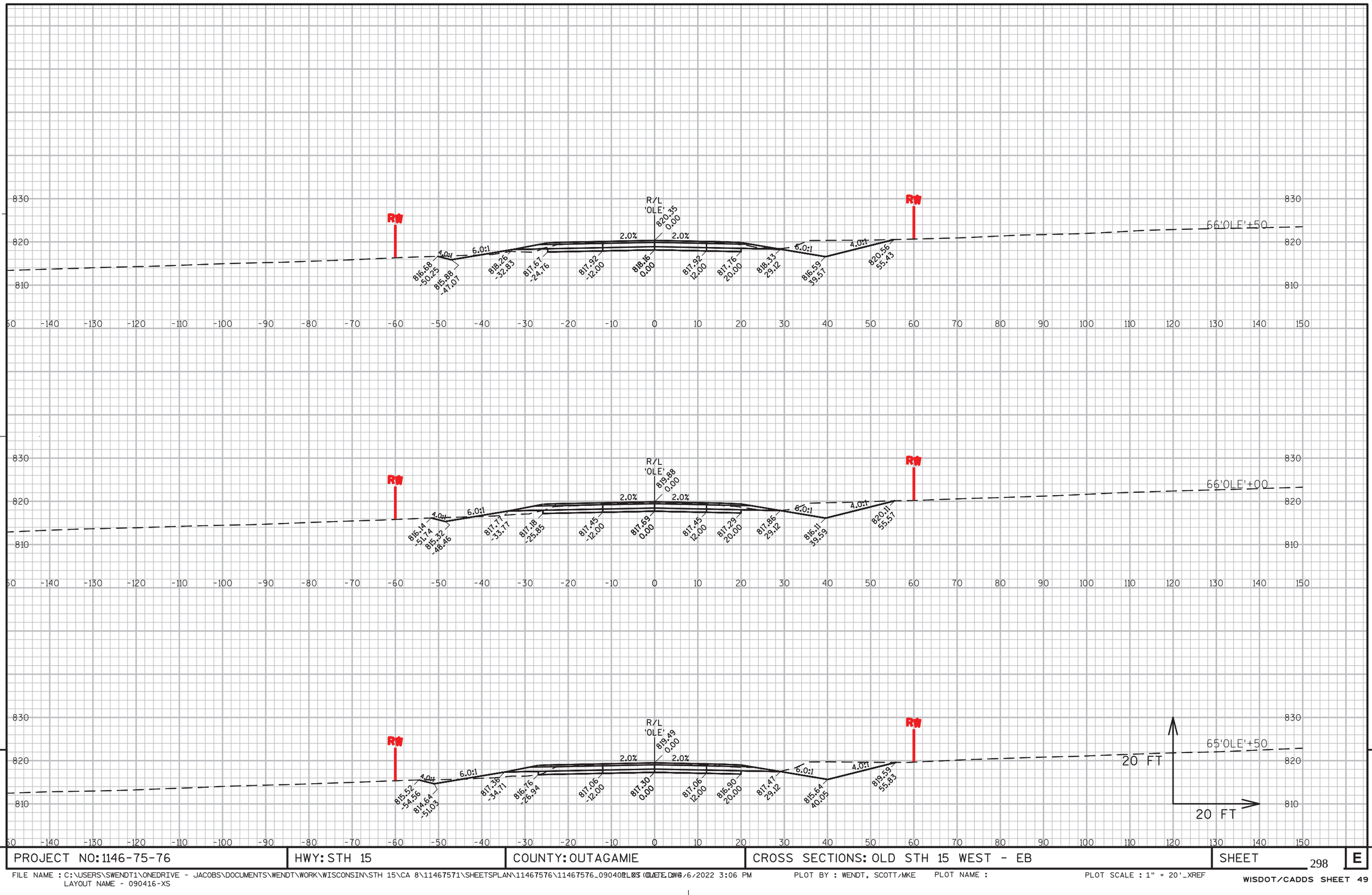
WISDOT/CADDS SHEET 49



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PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: OLD STH 15 WEST - EB	SHEET 297	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_090402_XS_OLE.DWG
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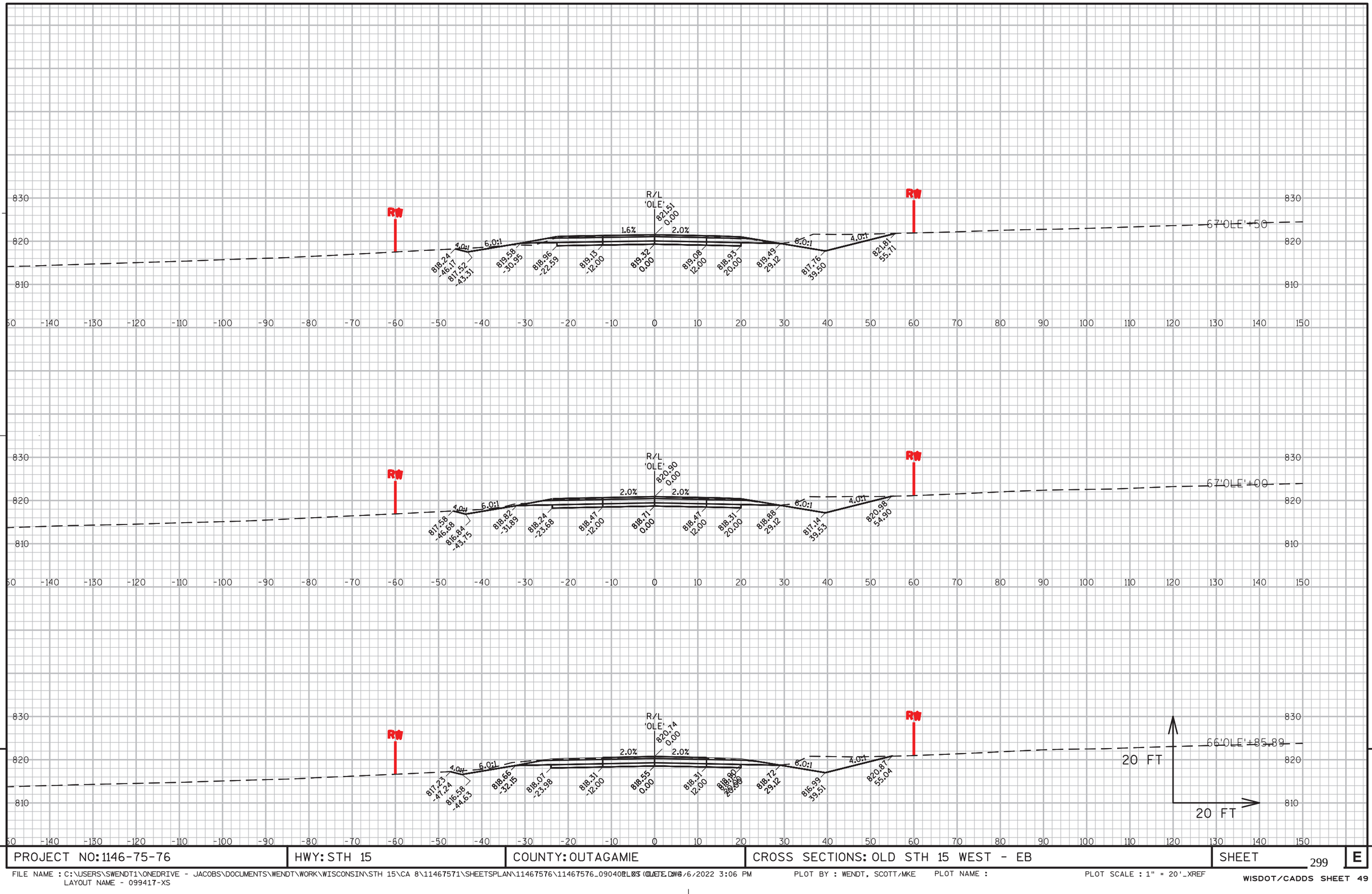
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PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: OLD STH 15 WEST - EB	SHEET 298	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_090402_XS_OLE.DWG
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PLOT BY : WENDT, SCOTT/MKE
PLOT NAME :
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WISDOT/CADDS SHEET 49

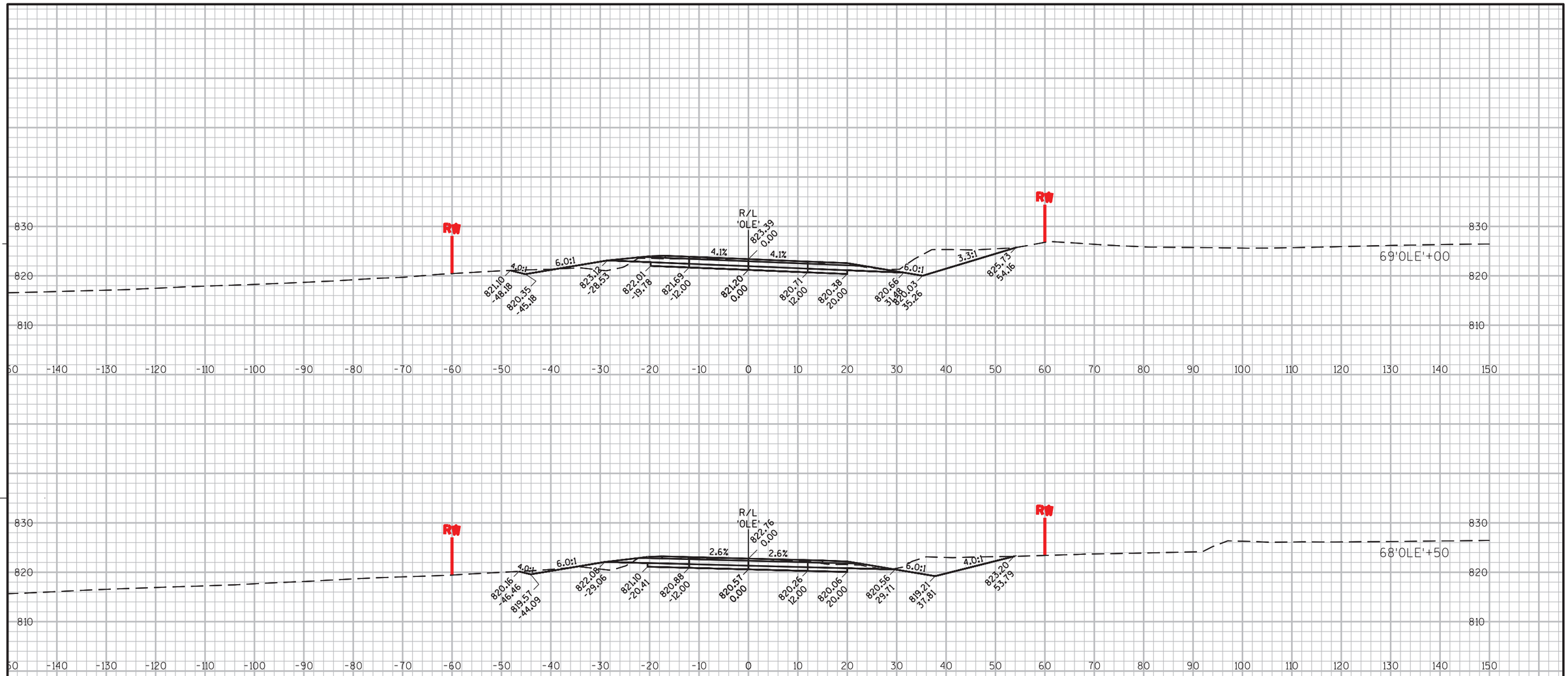


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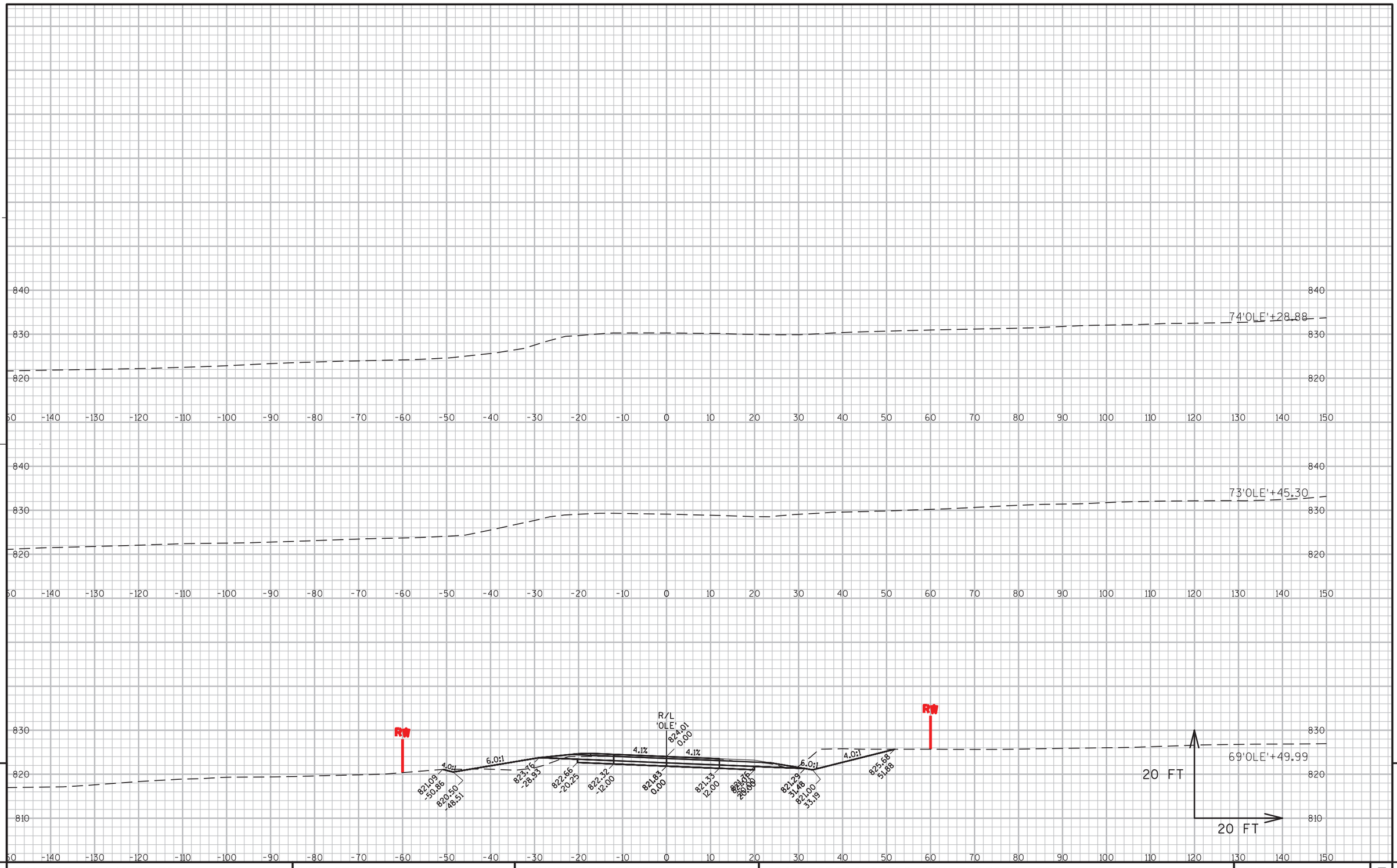
PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: OLD STH 15 WEST - EB	SHEET 299	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_09040PLRS (OLE).DWG
LAYOUT NAME - 099417-XS
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PLOT BY : WENDT, SCOTT/MKE
PLOT NAME :
PLOT SCALE : 1" = 20'_XREF



PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: OLD STH 15 WEST - EB	SHEET 300	E

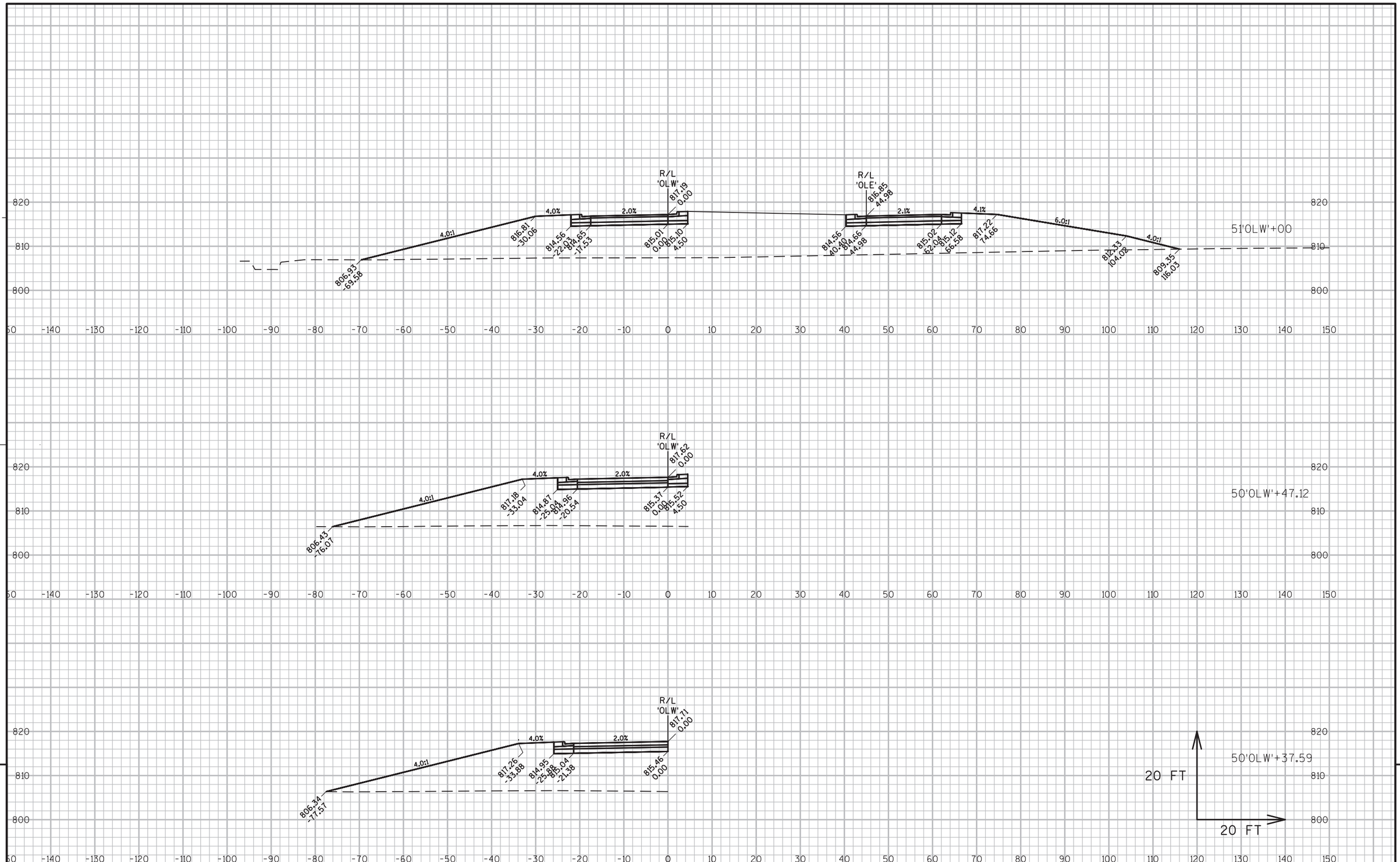
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LAYOUT NAME - 090418-XS
PLOT DATE : 10/6/2022 3:07 PM
PLOT BY : WENDT, SCOTT/MKE
PLOT NAME :
PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: OLD STH 15 WEST - EB	SHEET 301	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_090401.DGN
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PLOTTED : 6/6/2022 3:07 PM
PLOT BY : WENDT, SCOTT/MKE
PLOT NAME :
PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



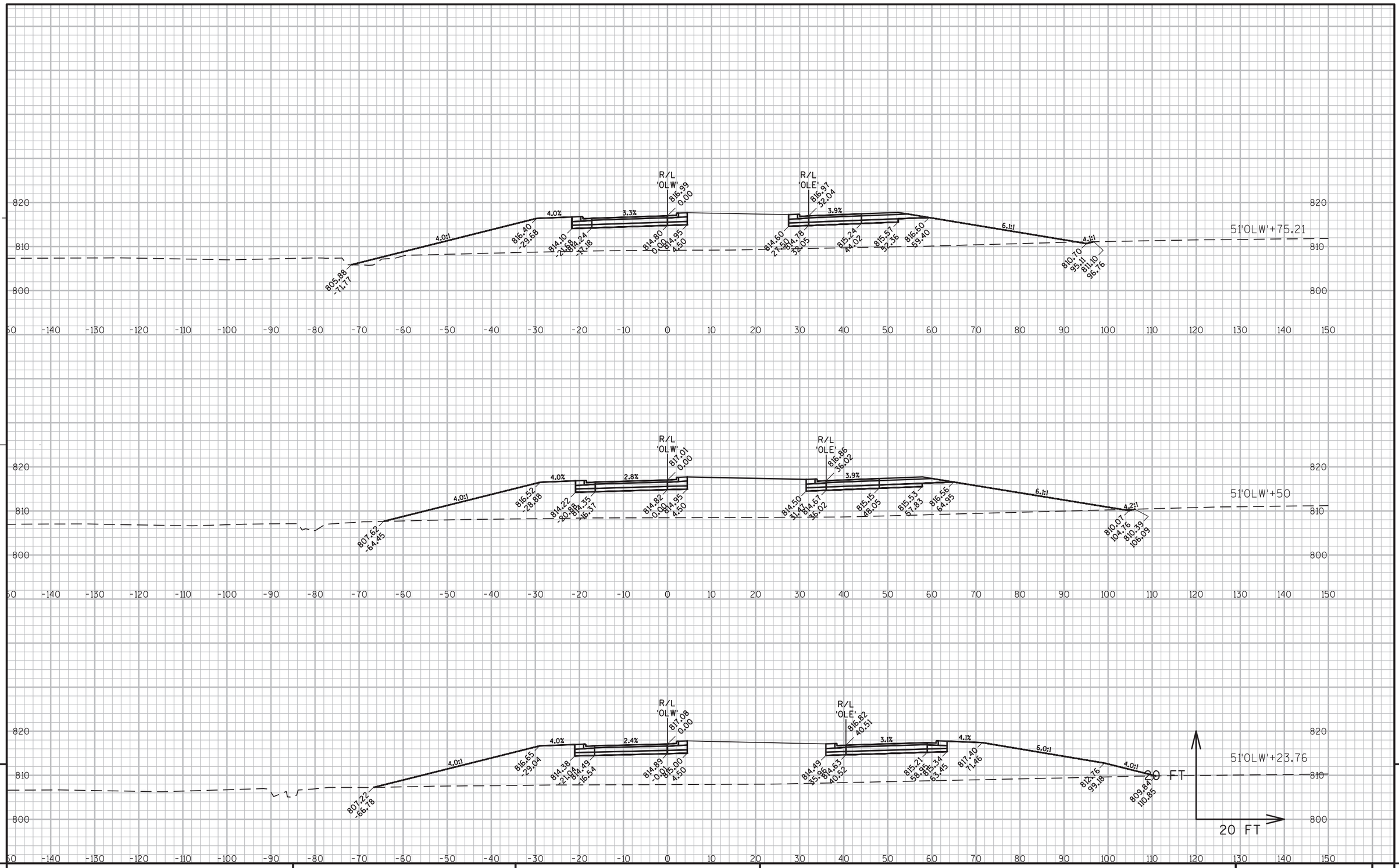
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PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - OLD STH 15 WEST - WB	SHEET 302 E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_09041BLXS (OLW).DWG
LAYOUT NAME - 090420-XS
PLOT DATE : 8/5/2022 2:33 PM
PLOT BY : WENDT, SCOTT/MKE
PLOT NAME :
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WISDOT/CADDS SHEET 49



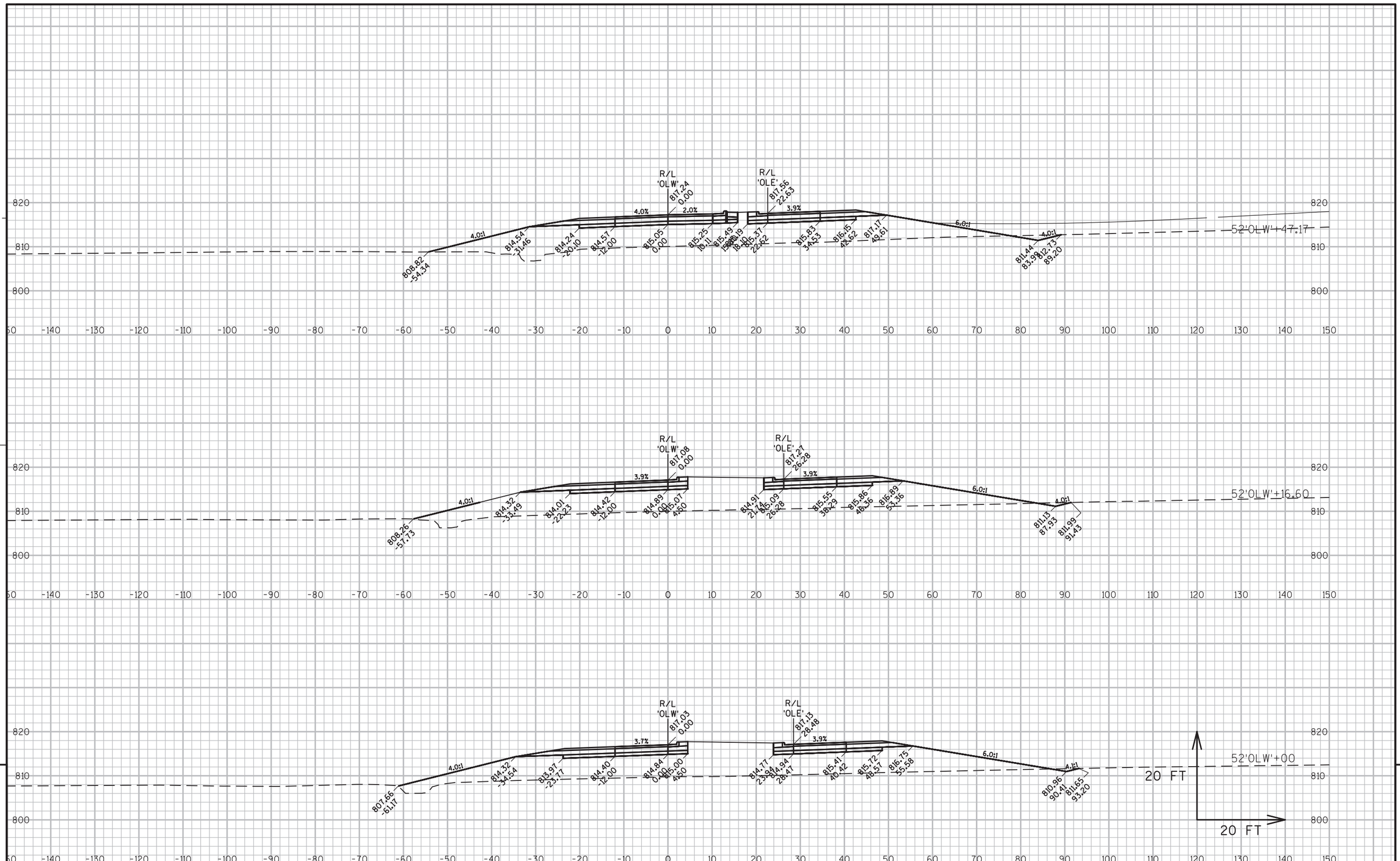
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PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - OLD STH 15 WEST - WB	SHEET 303	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_09041BLK01.DWG
LAYOUT NAME - 090421-XS
PLOT DATE : 10/6/2022 9:55 AM
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PLOT NAME :
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WISDOT/CADDS SHEET 49



9

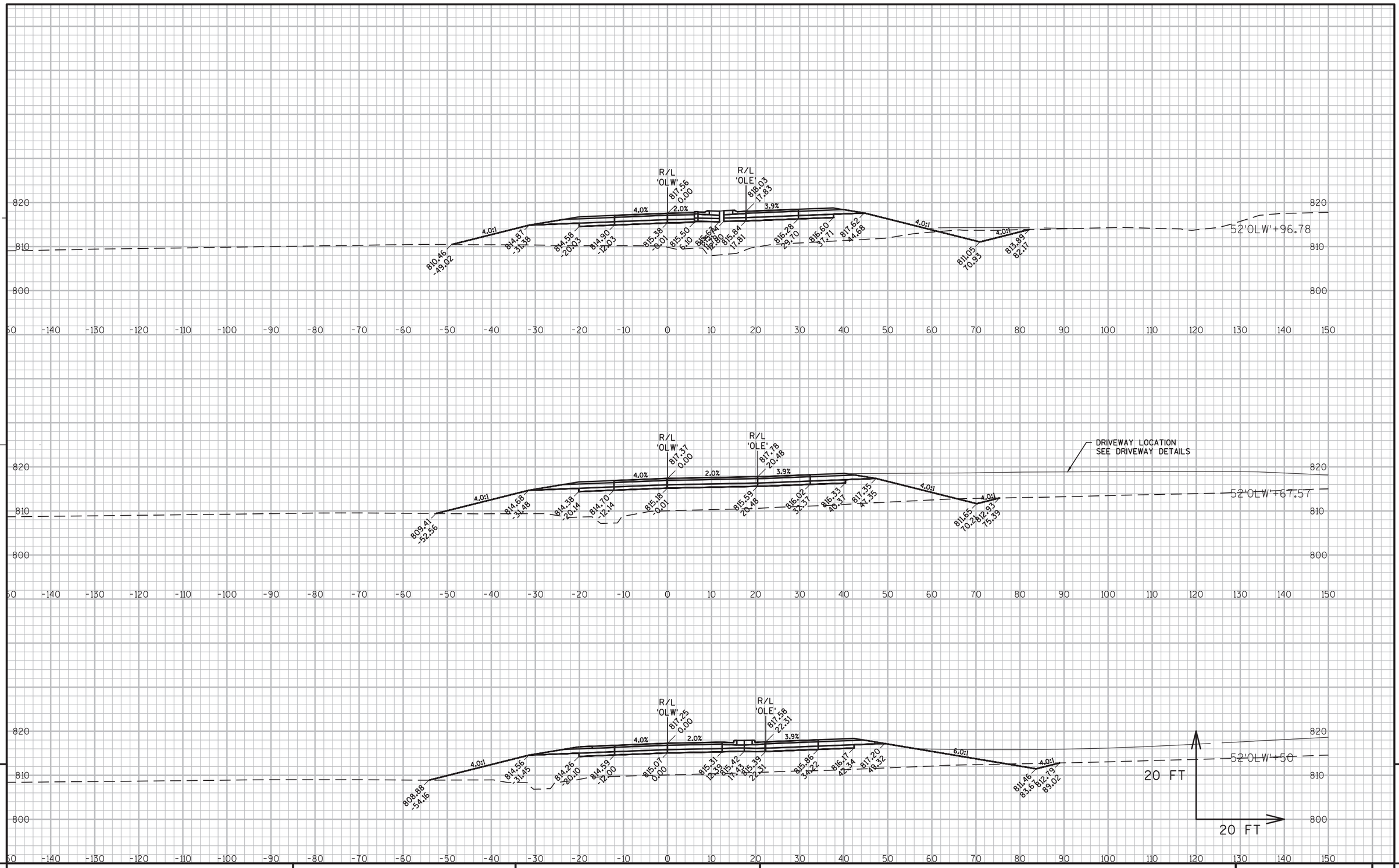
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PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - OLD STH 15 WEST - WB	SHEET 304	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_09041BLK8 (DATE: 9/6/2022 9:56 AM
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WISDOT/CADDS SHEET 49



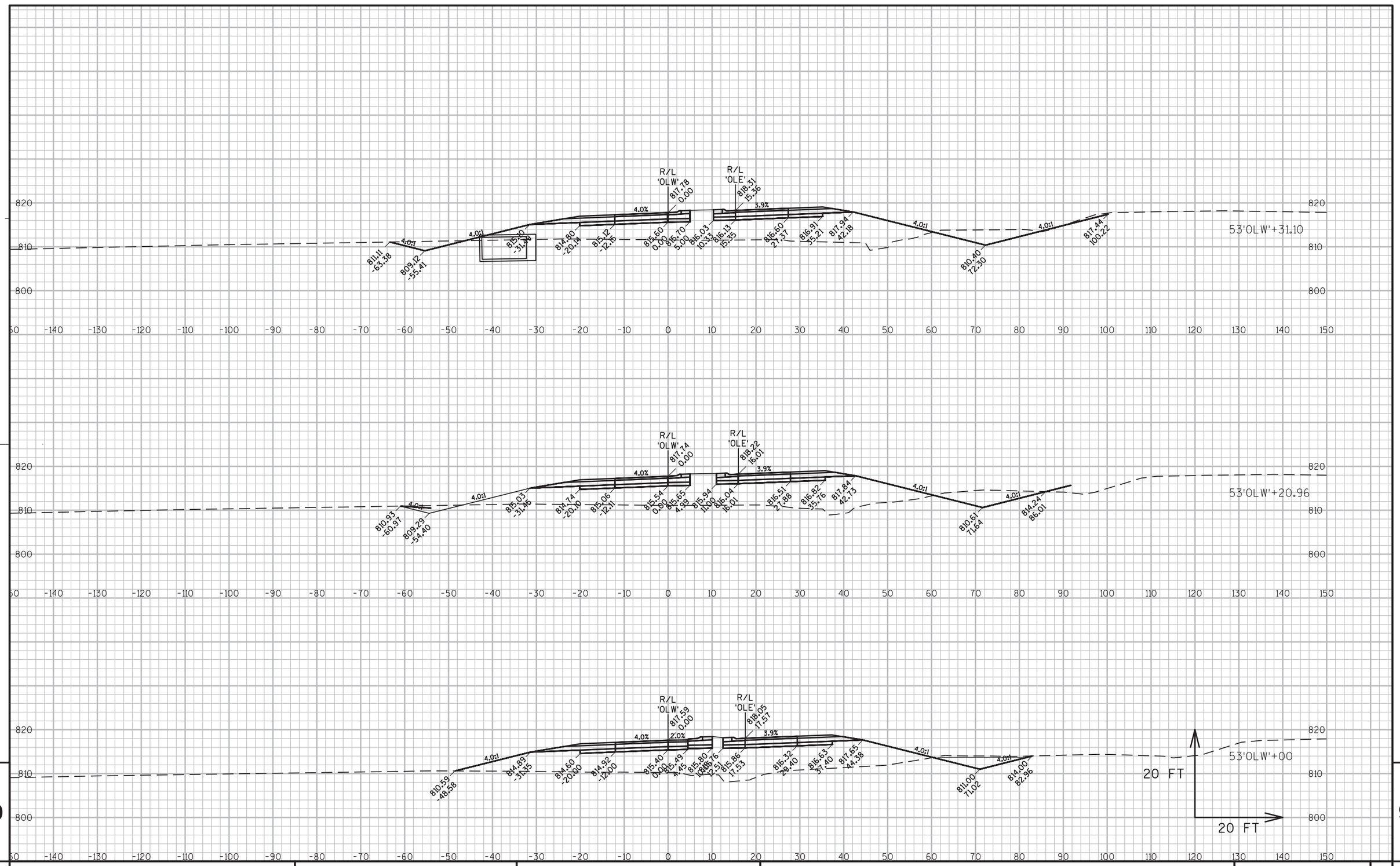
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9

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - OLD STH 15 WEST - WB	SHEET 305	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_09041BLK0S (DLWT_DW)
LAYOUT NAME - 090423-XS
DATE : 10/6/2022 9:57 AM
PLOT BY : WENDT, SCOTT/MKE
PLOT NAME :
PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

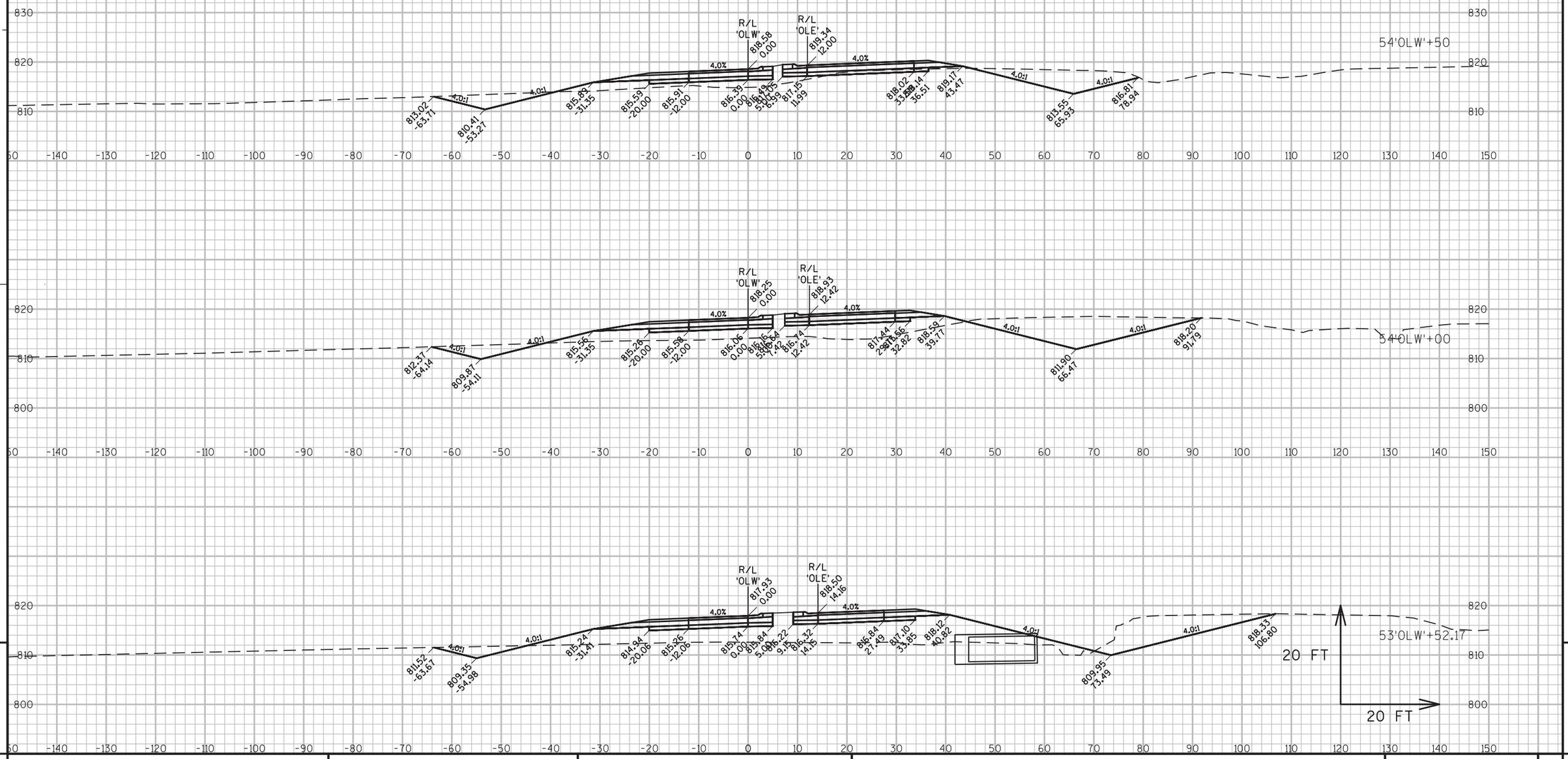
9

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - OLD STH 15 WEST - WB	SHEET 306	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_09041BLXS (LAYOUT: LW) 6/6/2022 9:58 AM
LAYOUT NAME - 090424-XS

PLOT BY : WENDT, SCOTT/MKE PLOT NAME : PLOT SCALE : 1 IN:20 FT

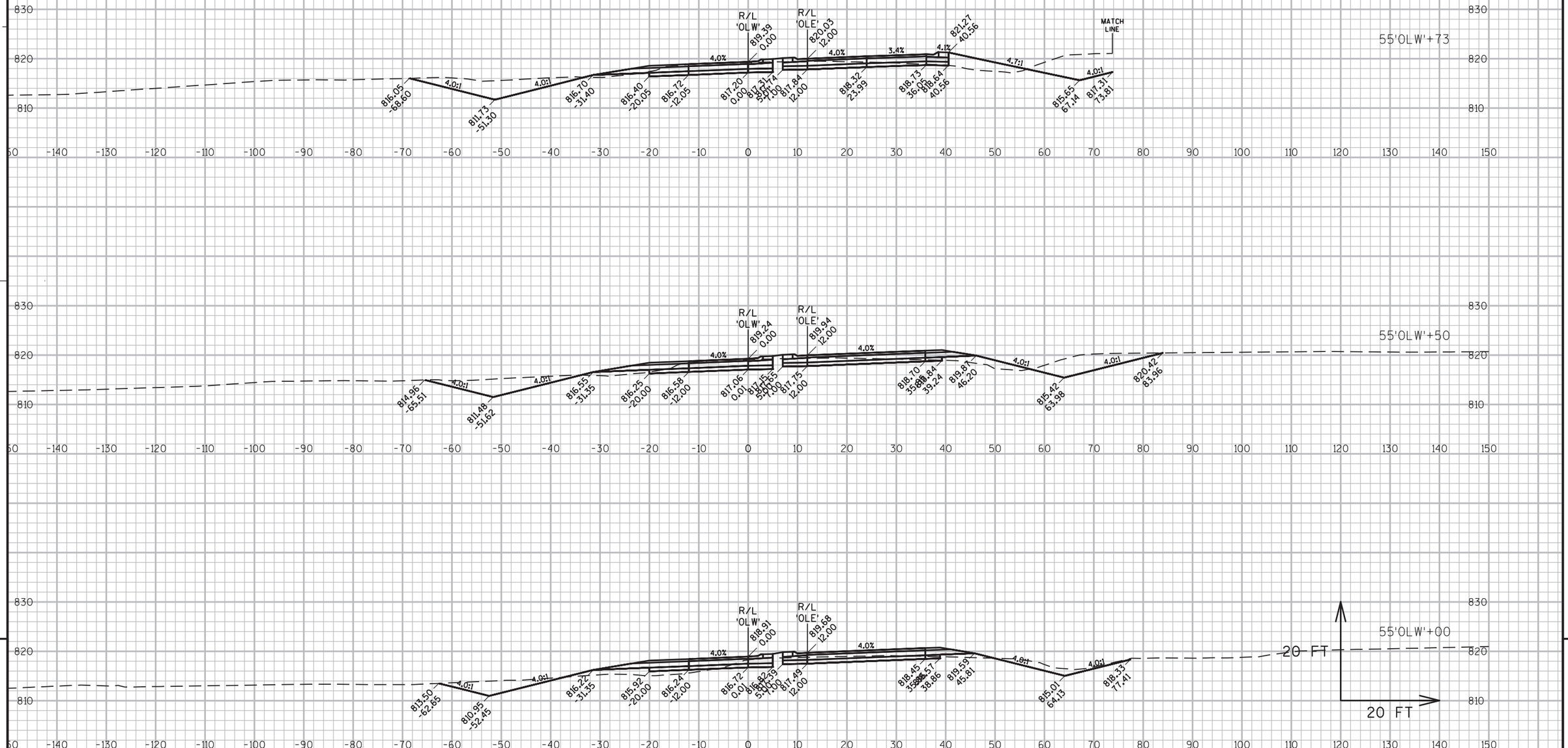
WISDOT/CADDS SHEET 49



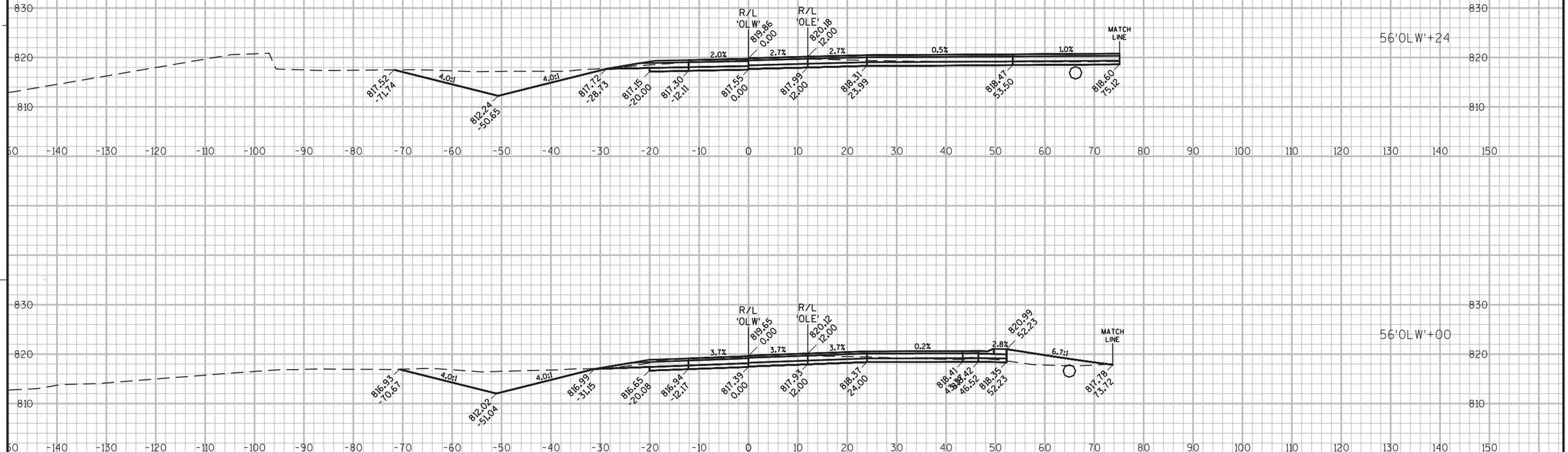
PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - OLD STH 15 WEST - WB	SHEET 307	E

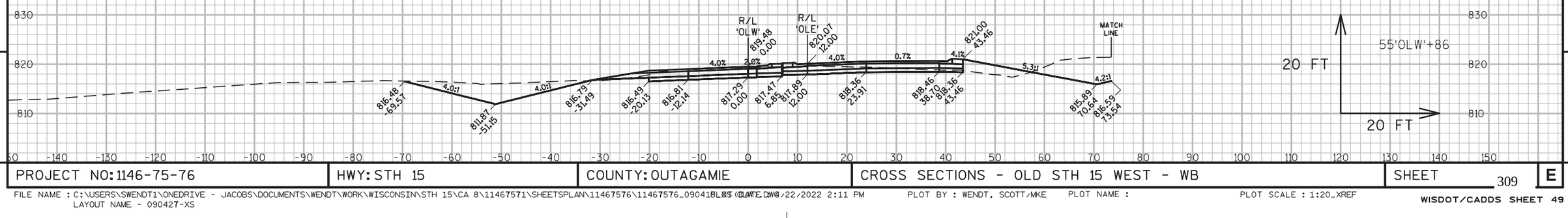
FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_09041BLK.DGN PLOT DATE : 10/6/2022 9:59 AM PLOT BY : WENDT, SCOTT/MKE PLOT NAME : PLOT SCALE : 1 IN:20 FT
LAYOUT NAME - 090425-XS

WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - OLD STH 15 WEST - WB	SHEET 308 E





9

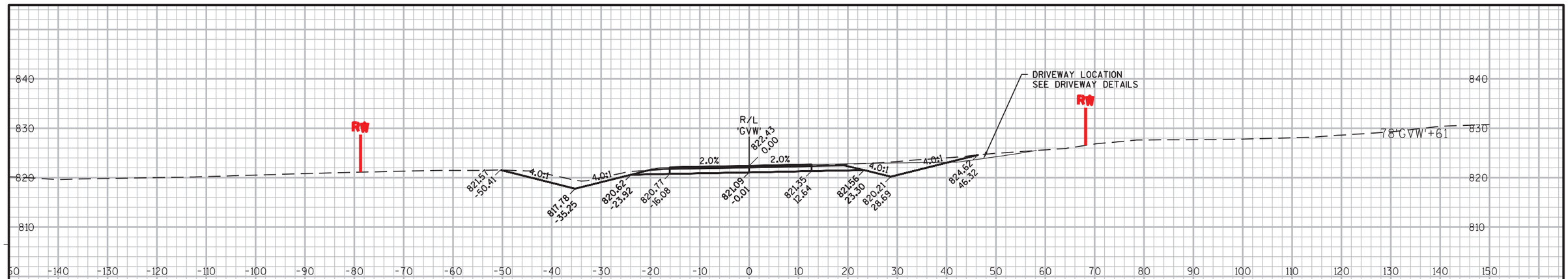
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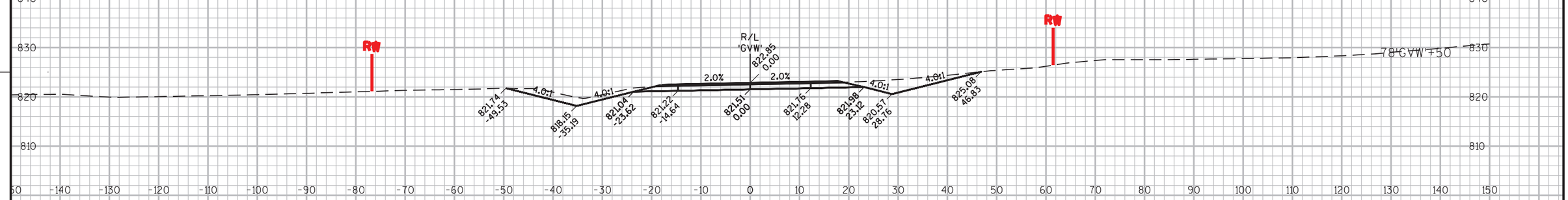
PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - OLD STH 15 WEST - WB	SHEET 309 E

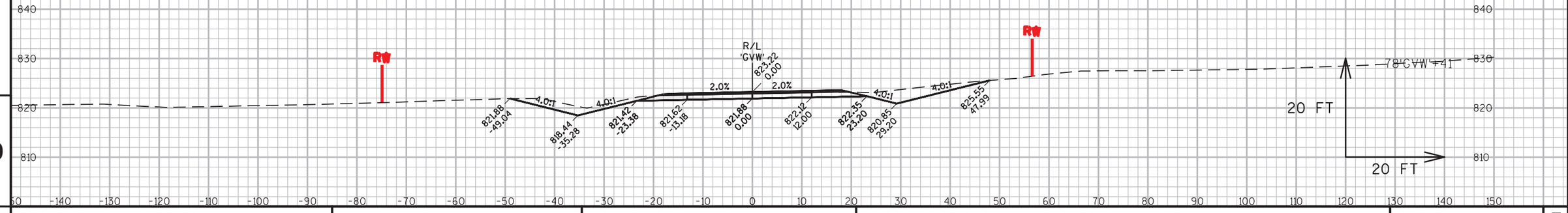
FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_09041BLXS (LAYOUT2).DWG 6/22/2022 2:11 PM
LAYOUT NAME - 090427-XS

PLOT BY : WENDT, SCOTT/MKE PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



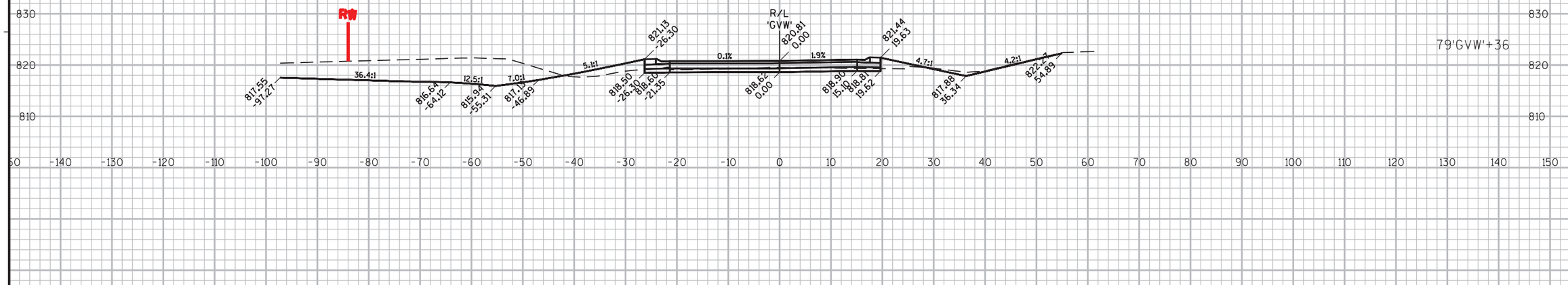


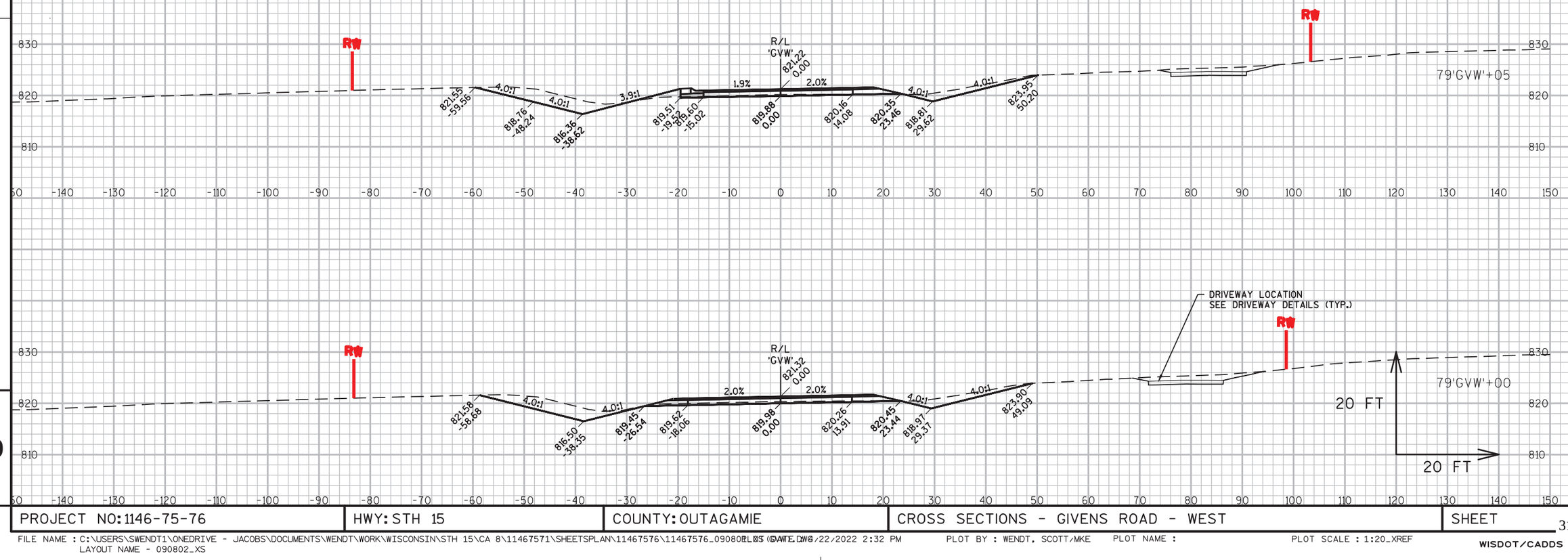


PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - GIVENS ROAD - WEST	SHEET 310	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_090801_XS.DWG
LAYOUT NAME - 090801_XS
PLOTTED : 6/22/2022 2:35 PM
PLOT BY : WENDT, SCOTT/MKE
PLOT NAME :
PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49





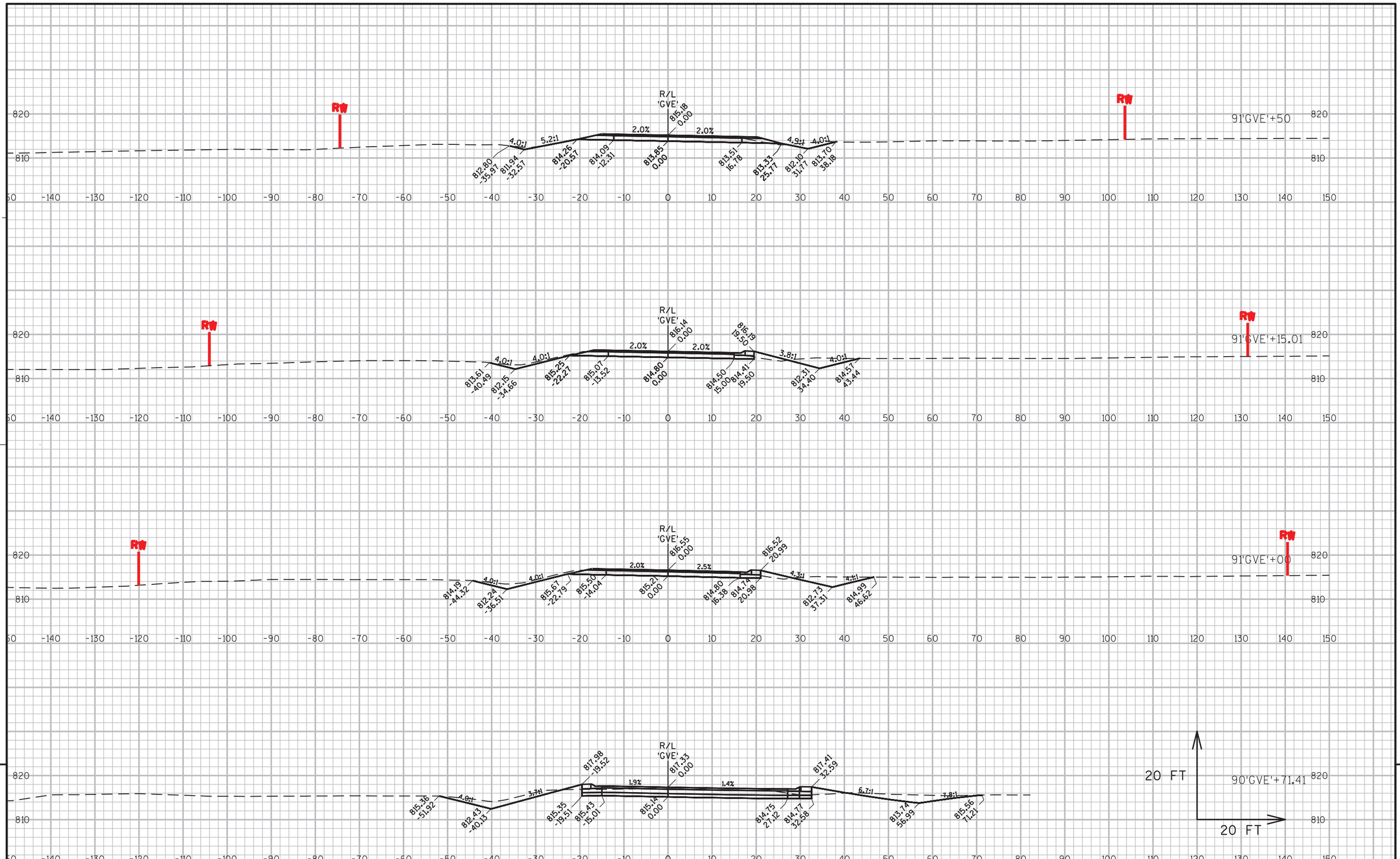
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9

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - GIVENS ROAD - WEST	SHEET 311	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_09080PLRS (SAVE).DWG
LAYOUT NAME - 090802_XS
PLOT DATE : 8/22/2022 2:32 PM
PLOT BY : WENDT, SCOTT/MKE
PLOT NAME :
PLOT SCALE : 1:20_XREF

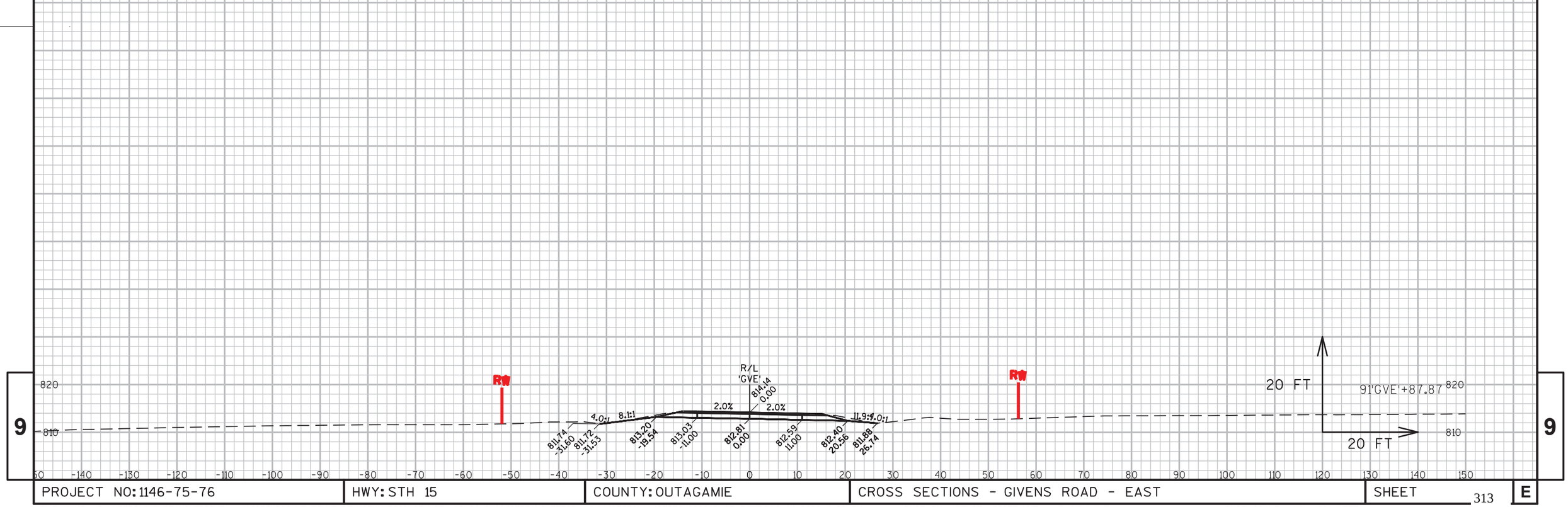
WISDOT/CADDS SHEET 49



9

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - GIVENS ROAD - EAST	SHEET 312 E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_090901_XS.DWG
LAYOUT NAME - 090901_XS
PLOTTED : 8/14/2022 4:29 PM
PLOT BY : WENDT, SCOTT/MKE
PLOT NAME :
PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



9

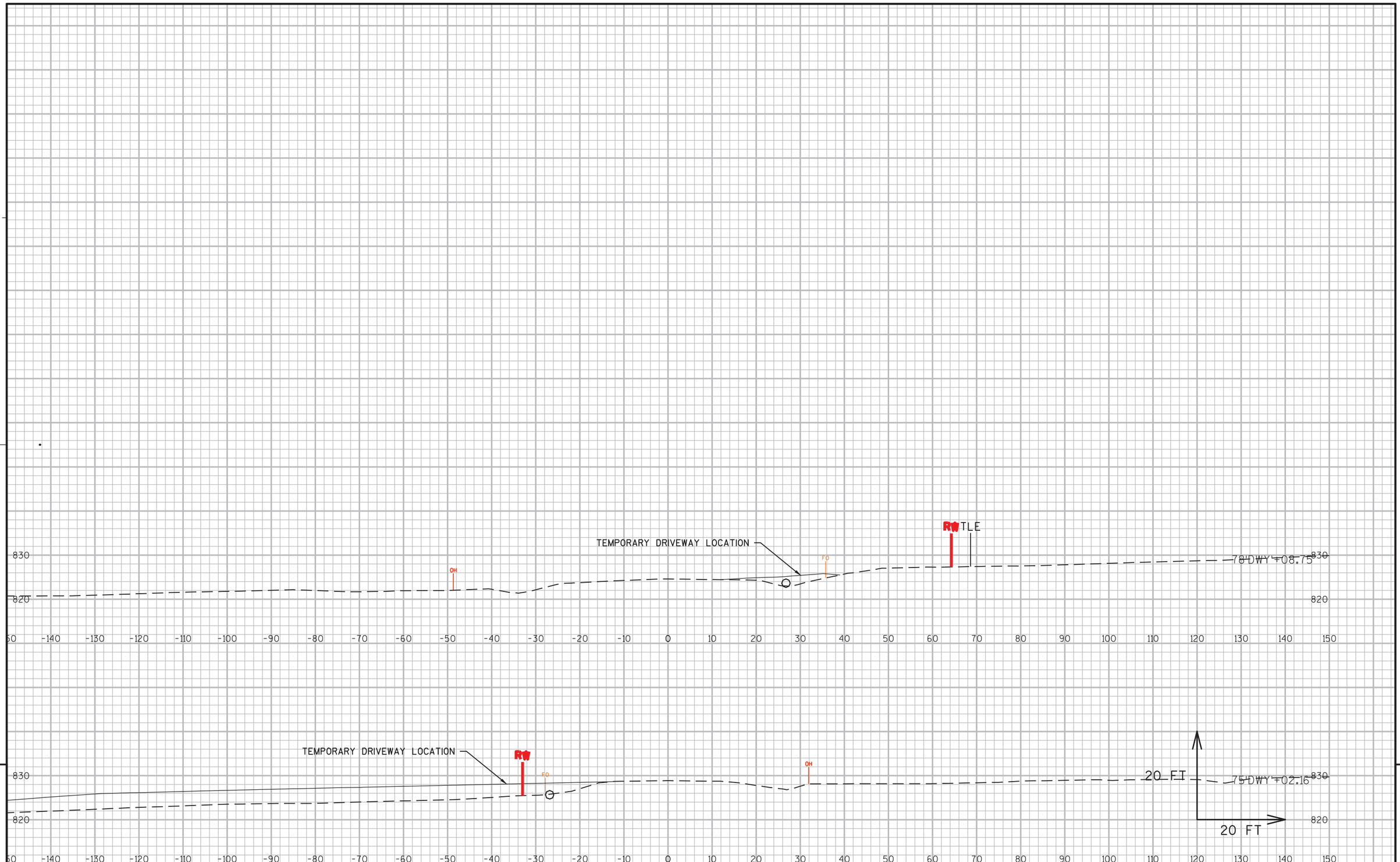
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PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - GIVENS ROAD - EAST	SHEET 313	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_090902_XS.DWG
LAYOUT NAME - 090902_XS

PLOTTED : 6/14/2022 4:29 PM PLOT BY : WENDT, SCOTT/MKE PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



9

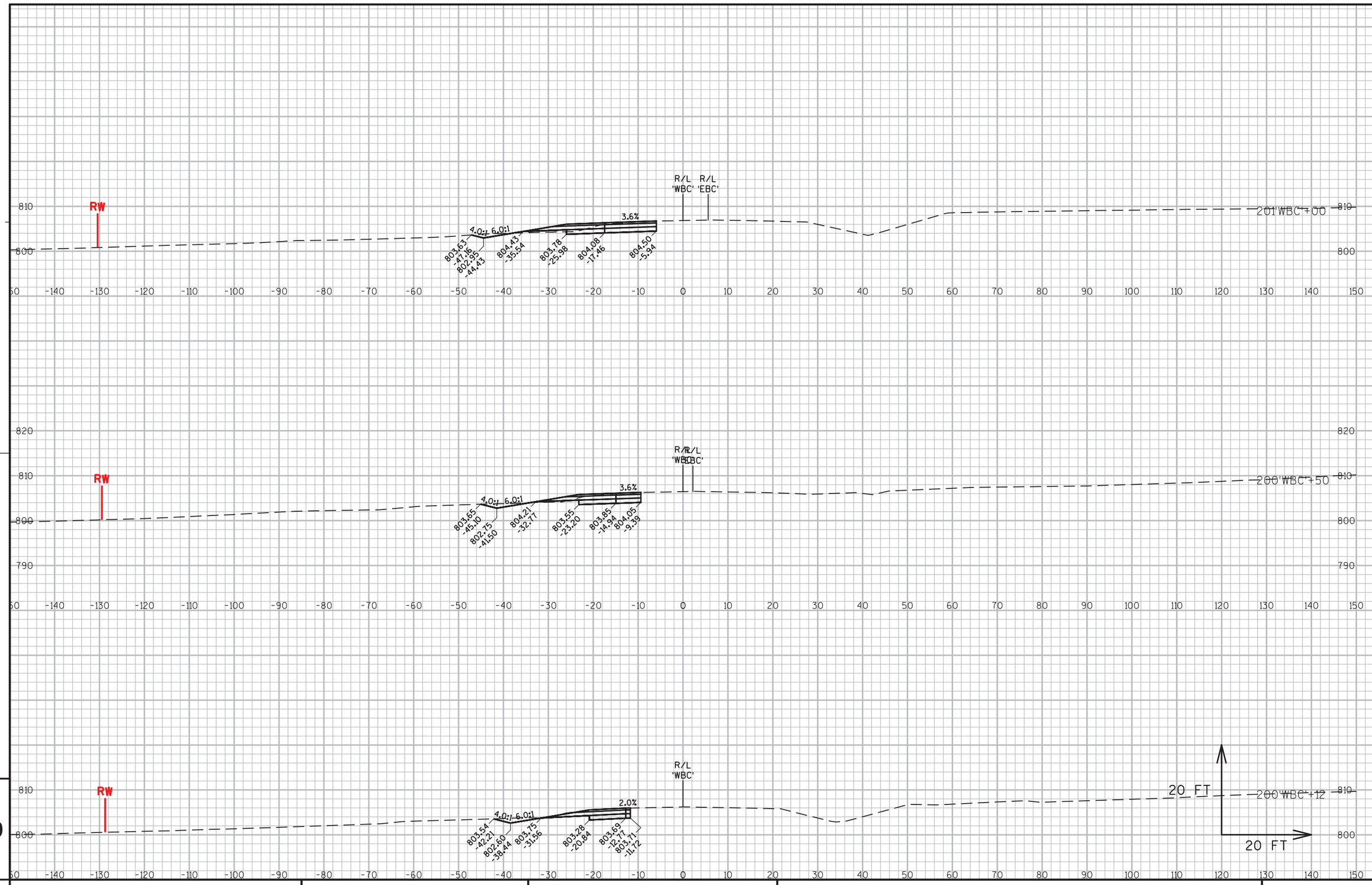
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PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS -TEMPORARY DRIVEWAYS	SHEET 314	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467576\11467576_090901_XS (GVE).DWG
LAYOUT NAME - 090903_XS

PLOT DATE : 10/22/2019 3:18 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



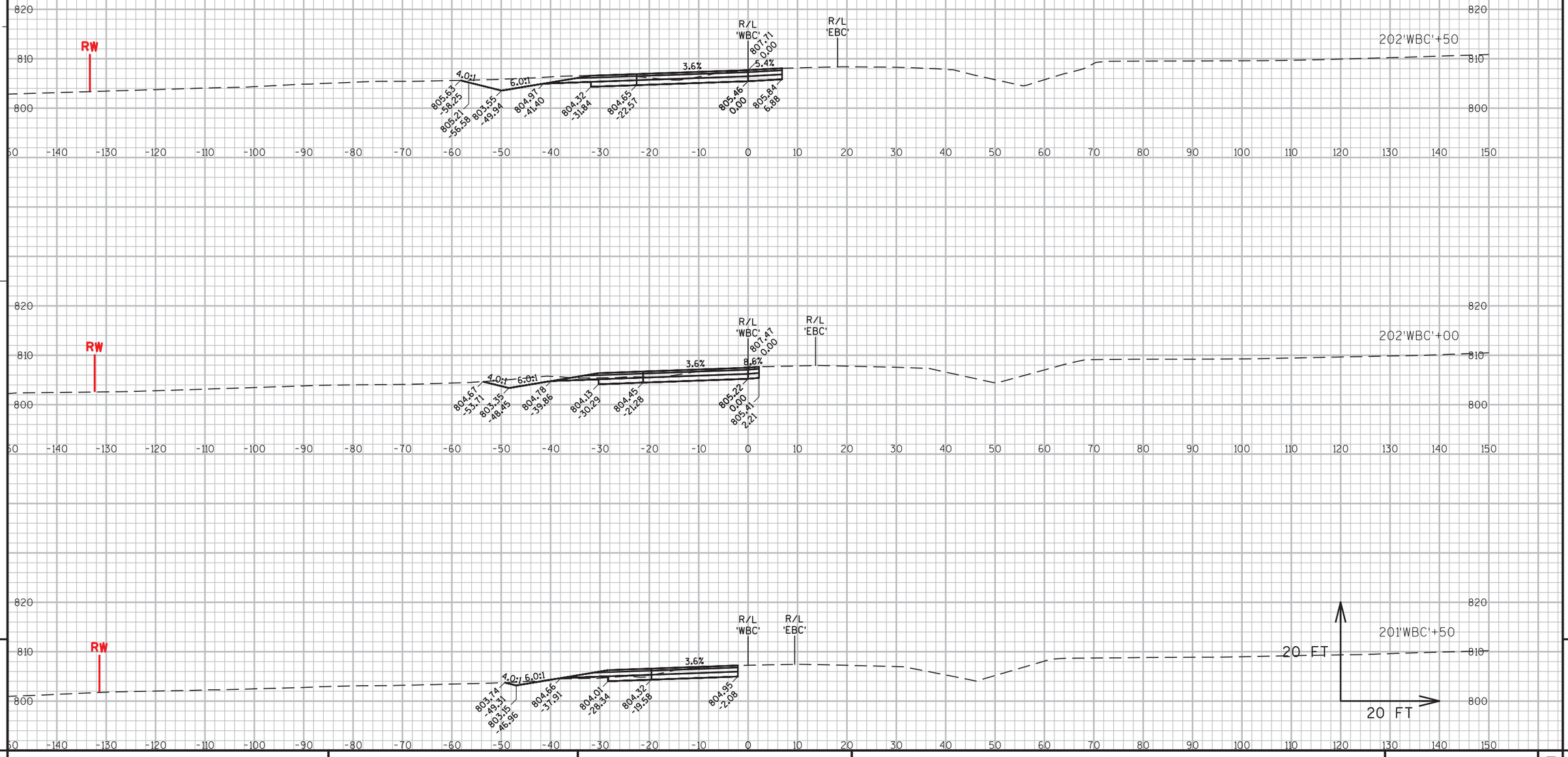
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9

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - TEMPORARY CONNECTION - WB	SHEET 315	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_091101.DWG
LAYOUT NAME - 091101_XS
PLOT DATE : 8/8/2022 10:43 AM
PLOT BY : WENDT, SCOTT/MKE
PLOT NAME :
PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

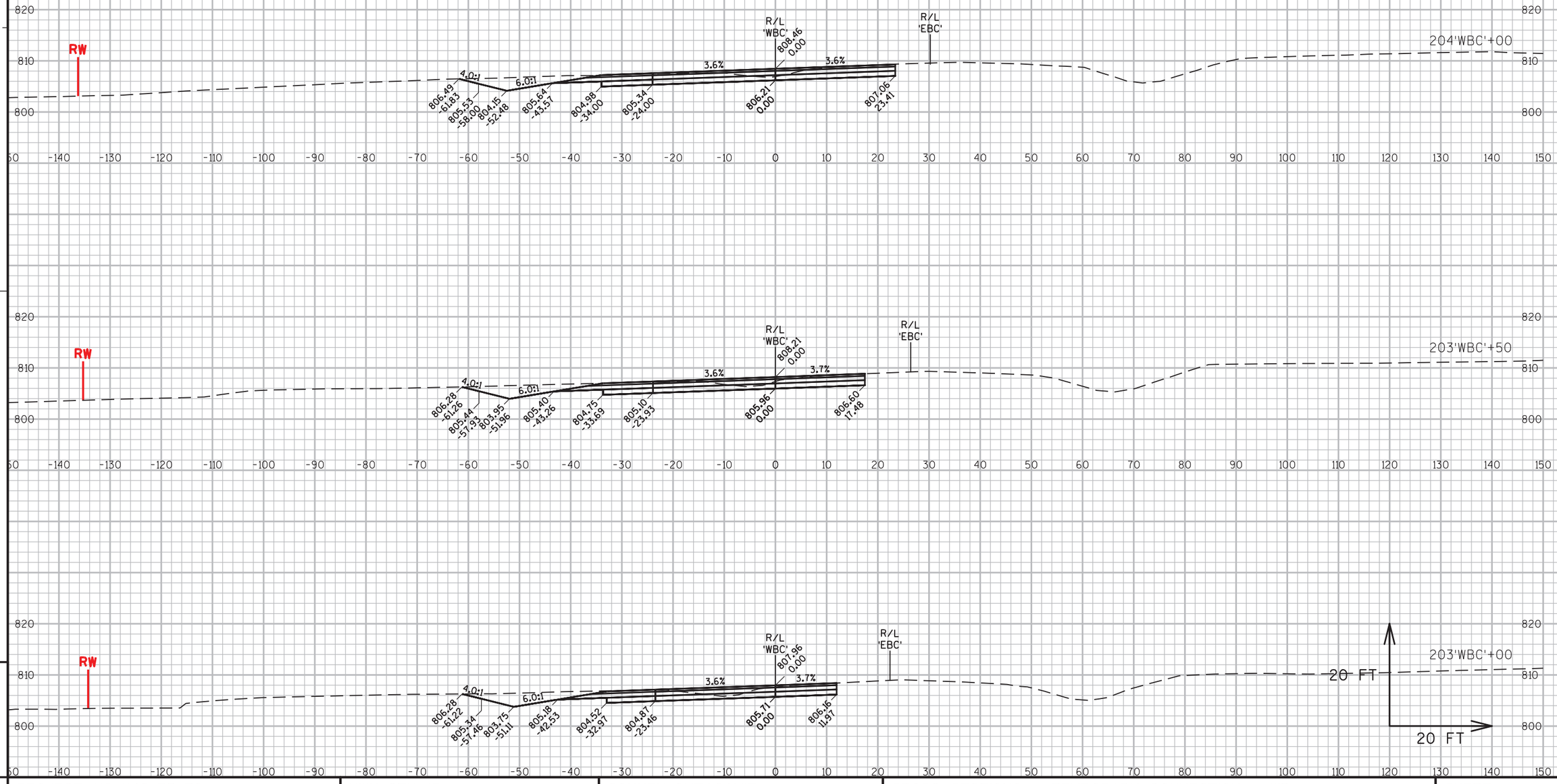


9

9

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - TEMPORARY CONNECTION - WB	SHEET 316	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_091102.DWG
LAYOUT NAME - 091102_XS
PLOTTED : 8/8/2022 10:44 AM
PLOT BY : WENDT, SCOTT/MKE
PLOT NAME :
PLOT SCALE : 1" = 20'_XREF



9

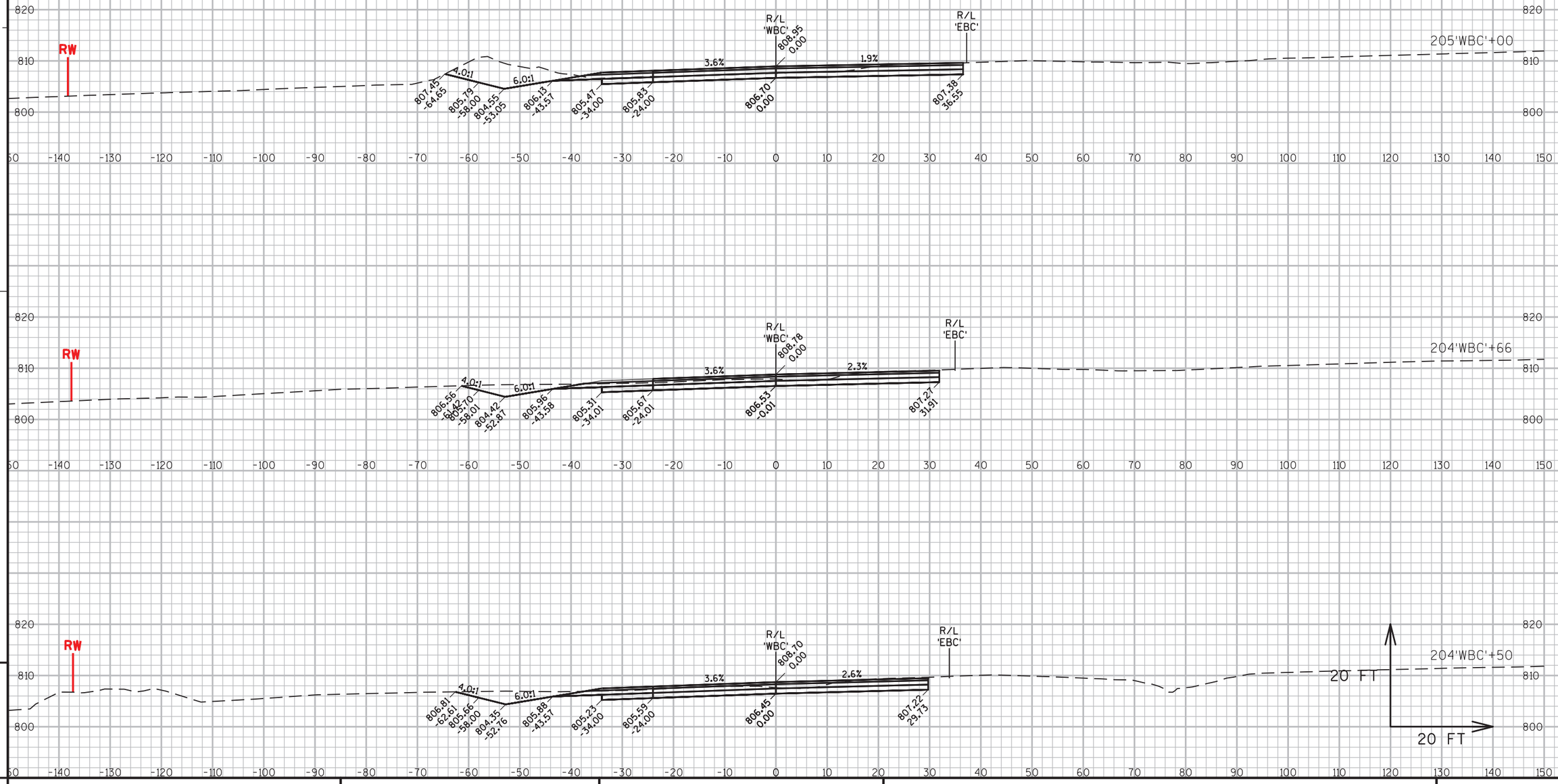
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PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - TEMPORARY CONNECTION - WB	SHEET 317	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_091103.DWG PLOTTED ON : 8/8/2022 10:45 AM
LAYOUT NAME - 091103_XS

PLOT BY : WENDT, SCOTT/MKE PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



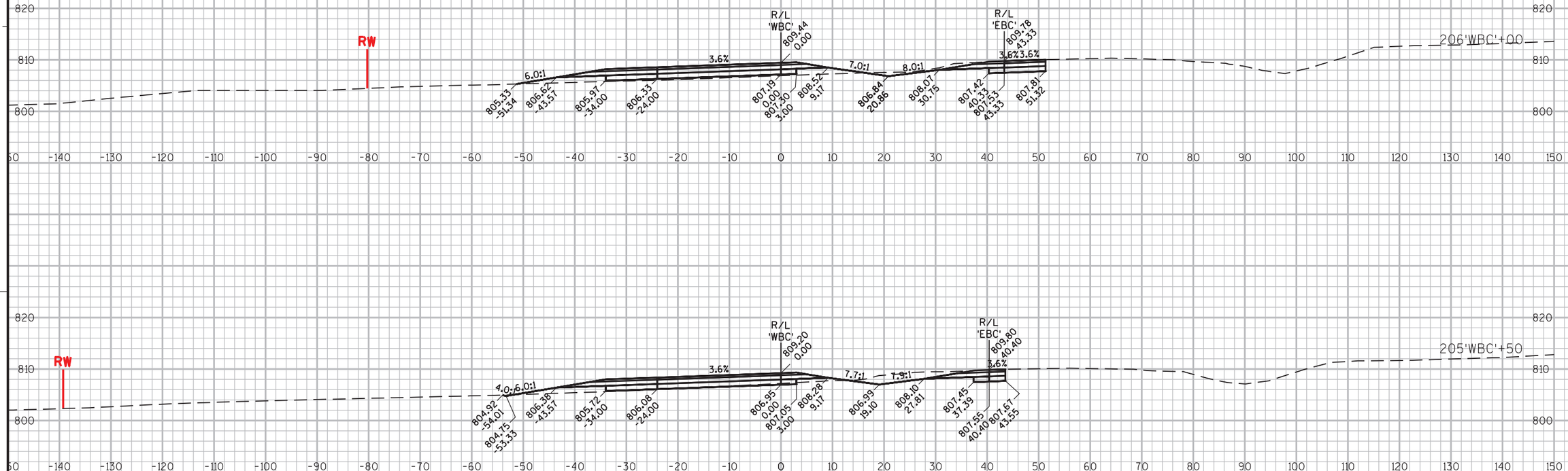
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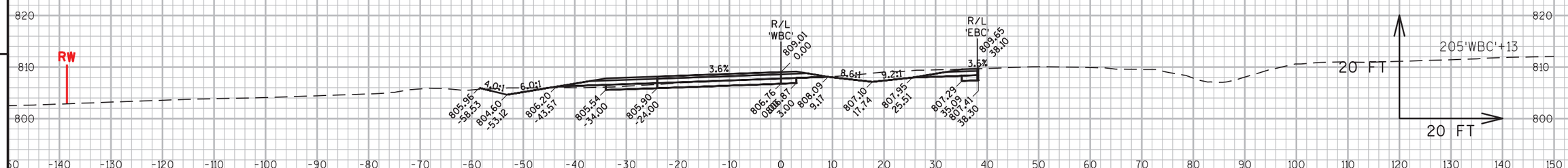
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PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - TEMPORARY CONNECTION - WB	SHEET 318	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_091104.DGN PLOTTED ON : 8/8/2022 10:46 AM PLOT BY : WENDT, SCOTT/MKE PLOT NAME : PLOT SCALE : 1" = 20'_XREF
LAYOUT NAME - 091104_XS

WISDOT/CADDS SHEET 49



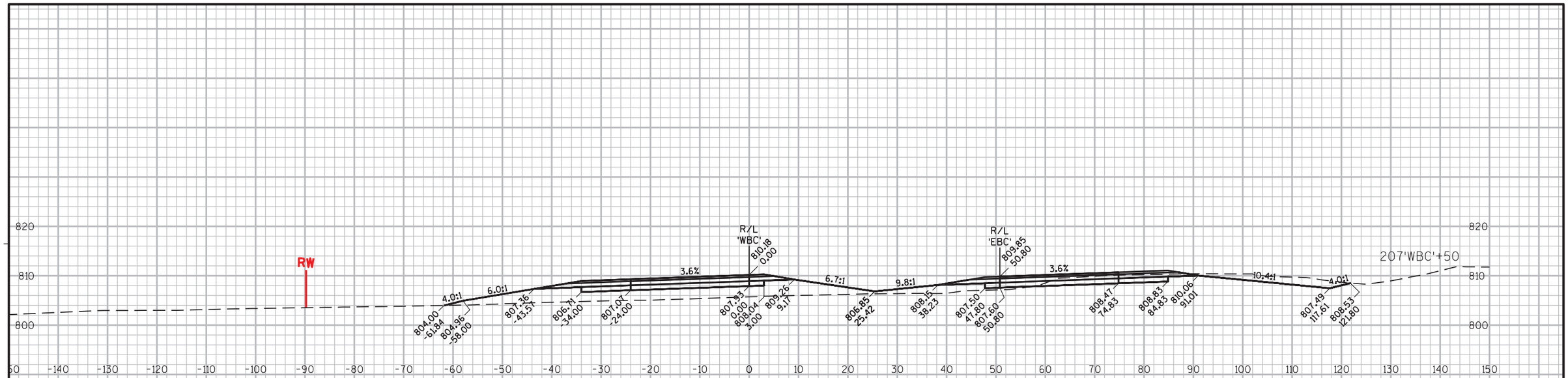


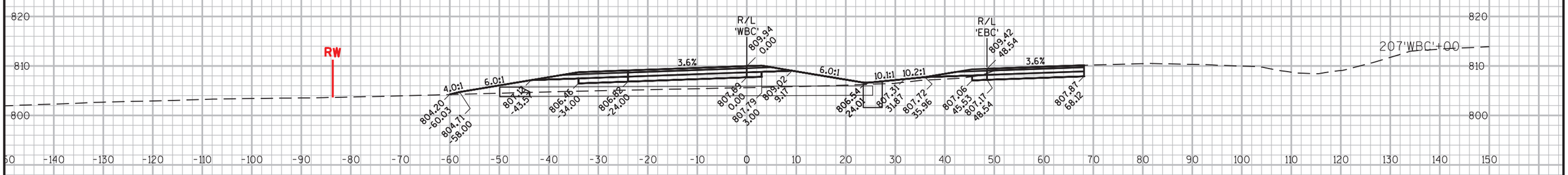
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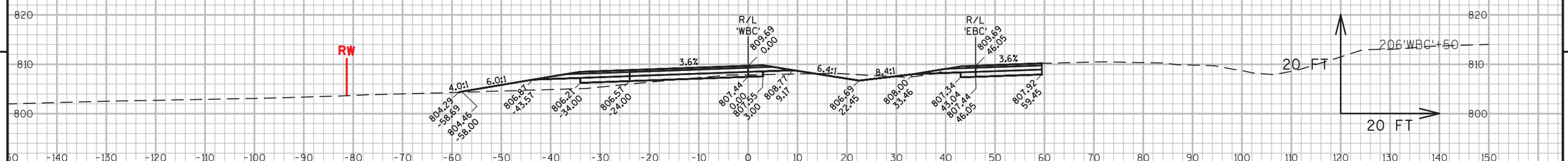
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PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - TEMPORARY CONNECTION - WB	SHEET 319	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_09110PLRS (WEC).DWG
LAYOUT NAME - 091105_XS
PLOTTED : 12/12/2022 10:08 AM PLOT BY : WENDT, SCOTT/MKE PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



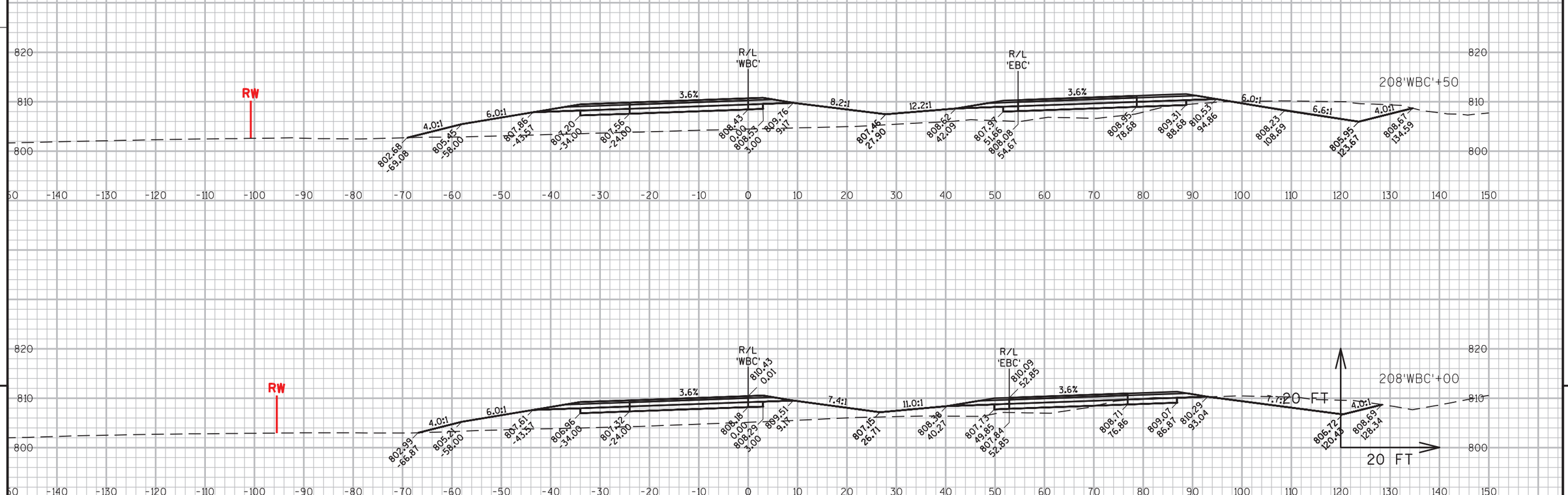




PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - TEMPORARY CONNECTION - WB	SHEET 320 E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_09110PLRS (WCTE).DWG 12/12/2022 10:09 AM PLOT BY : WENDT, SCOTT/MKE PLOT NAME : PLOT SCALE : 1" = 20'_XREF
LAYOUT NAME - 091106_XS

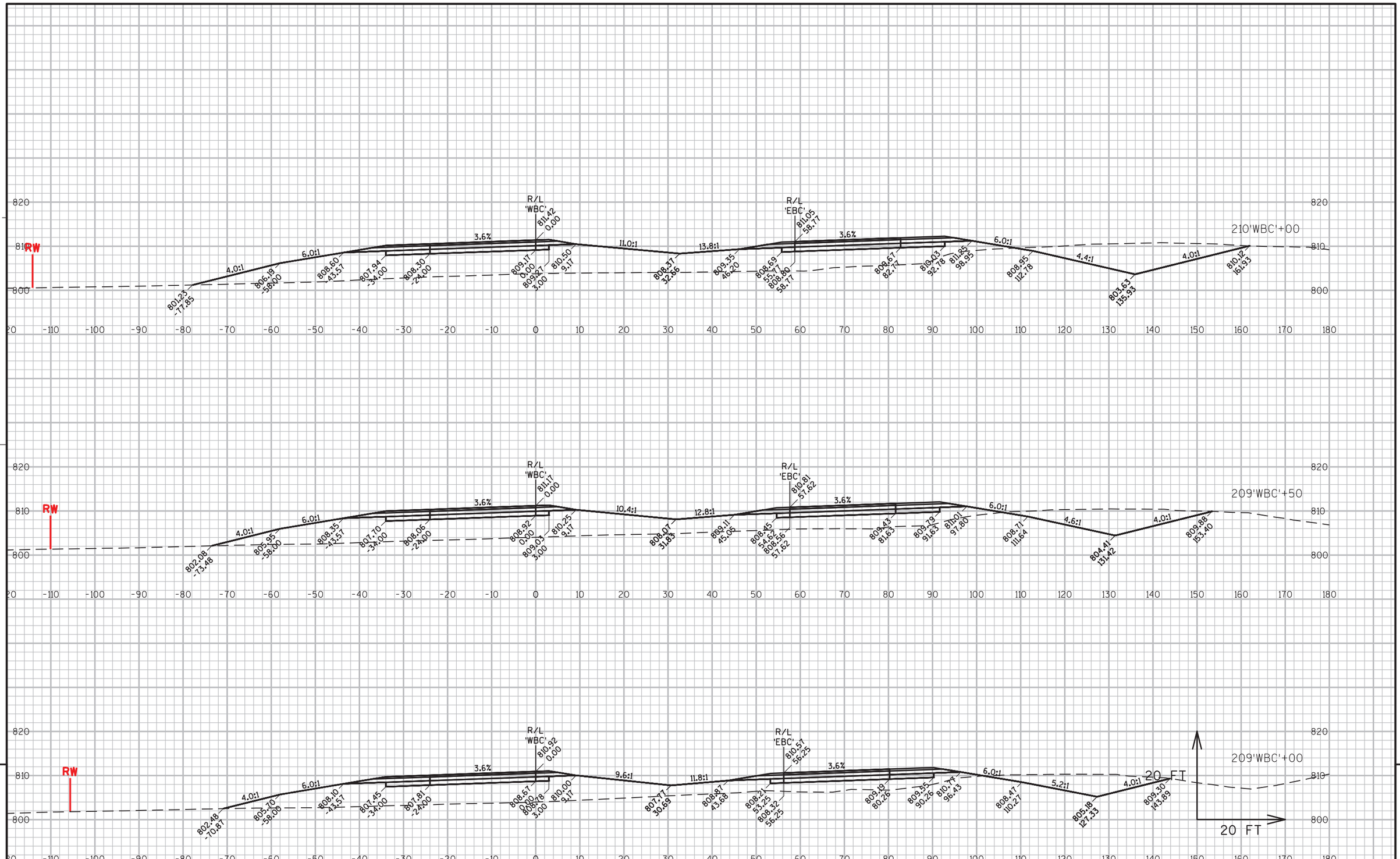
WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - TEMPORARY CONNECTION - WB	SHEET 321	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_09110PLRS.DWG
LAYOUT NAME - 091107_XS
PLOTTED : 12/12/2022 10:10 AM
PLOT BY : WENDT, SCOTT/MKE
PLOT NAME :
PLOT SCALE : 1" = 20'_XREF

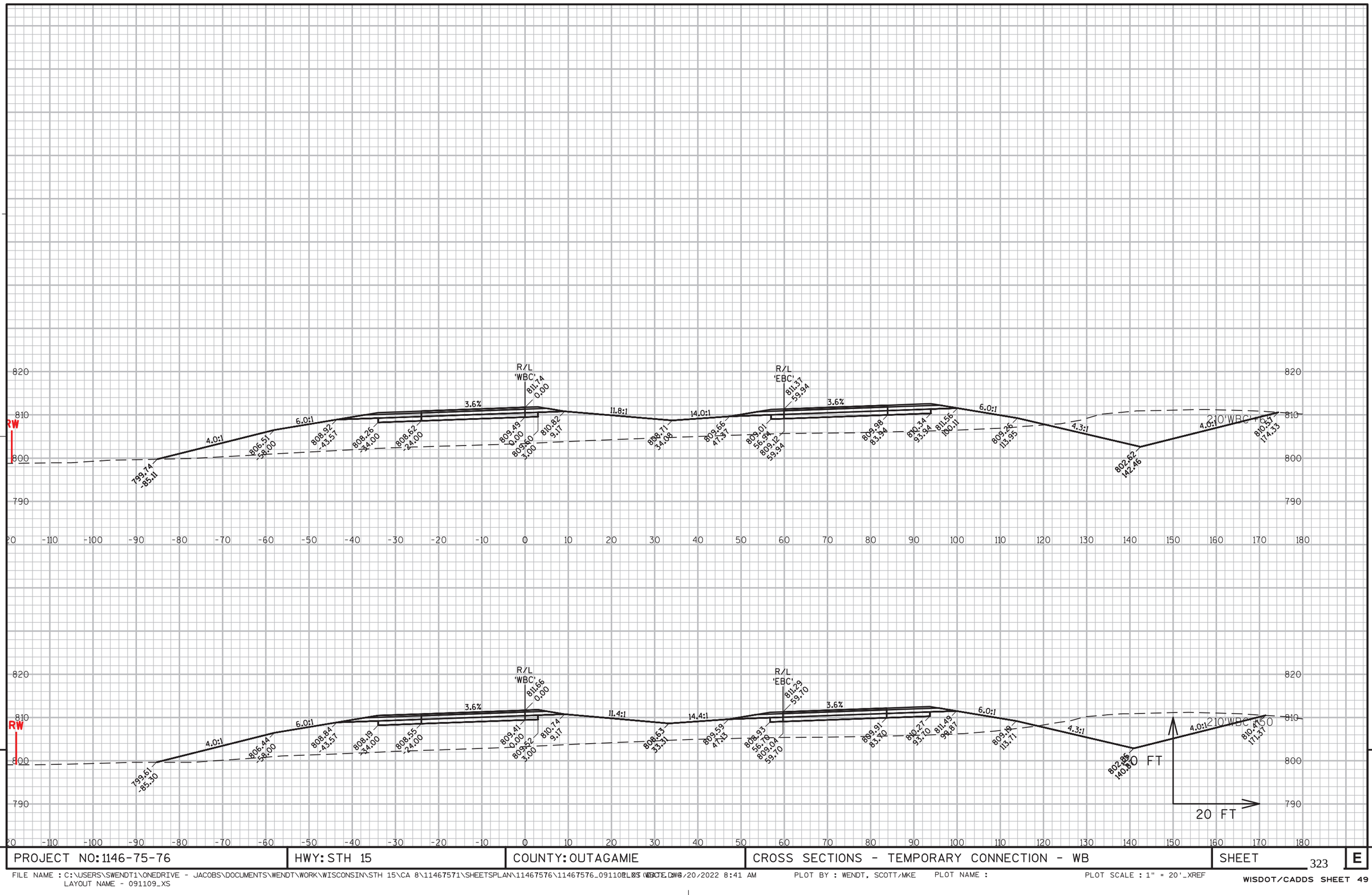
WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - TEMPORARY CONNECTION - WB	SHEET 322 E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_09110PLRS (WBCTE).DWG 10/20/2022 8:40 AM PLOT BY : WENDT, SCOTT/MKE PLOT NAME : PLOT SCALE : 1" = 20'_XREF
LAYOUT NAME - 091108_XS

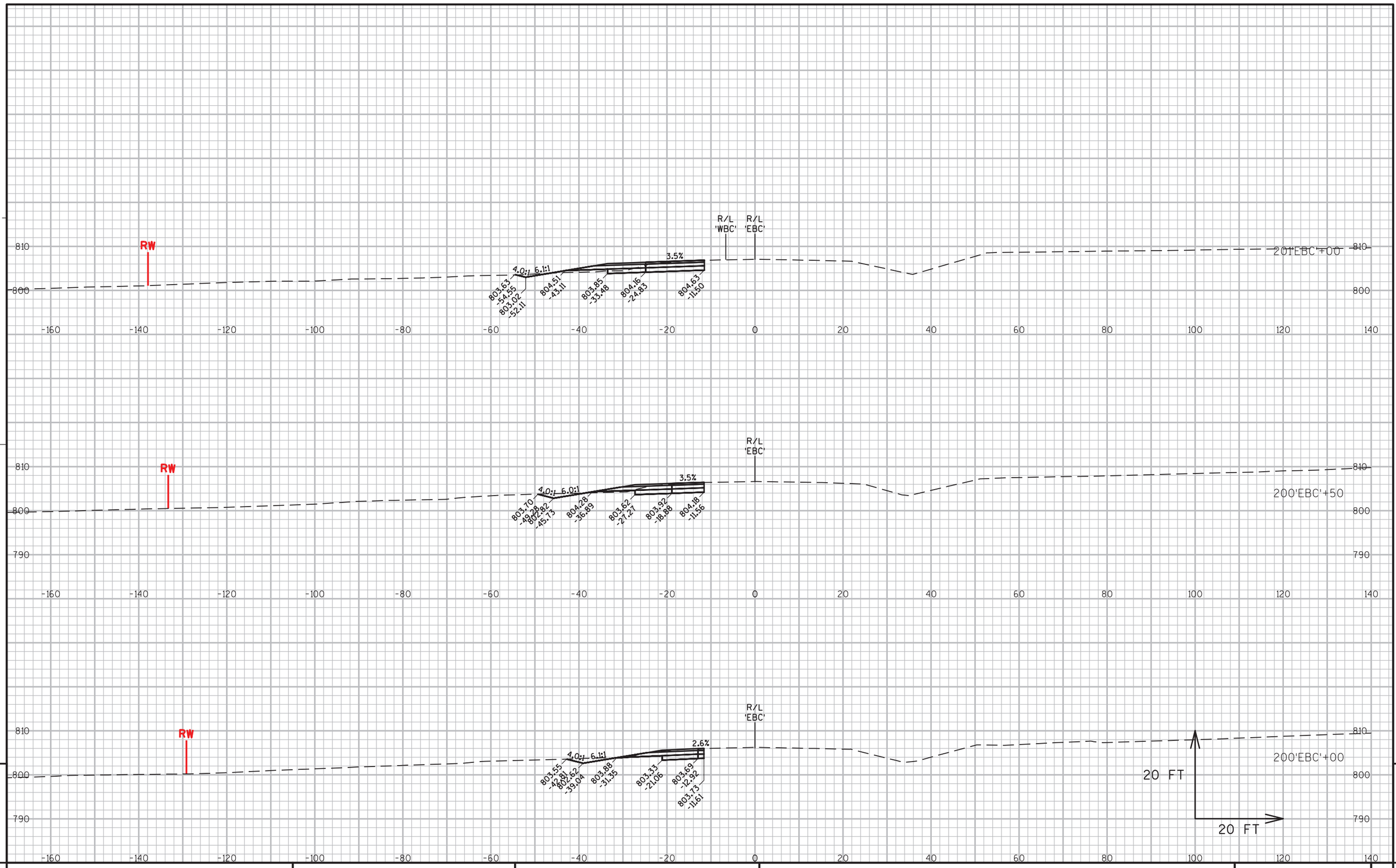
WISDOT/CADDS SHEET 49



9 9

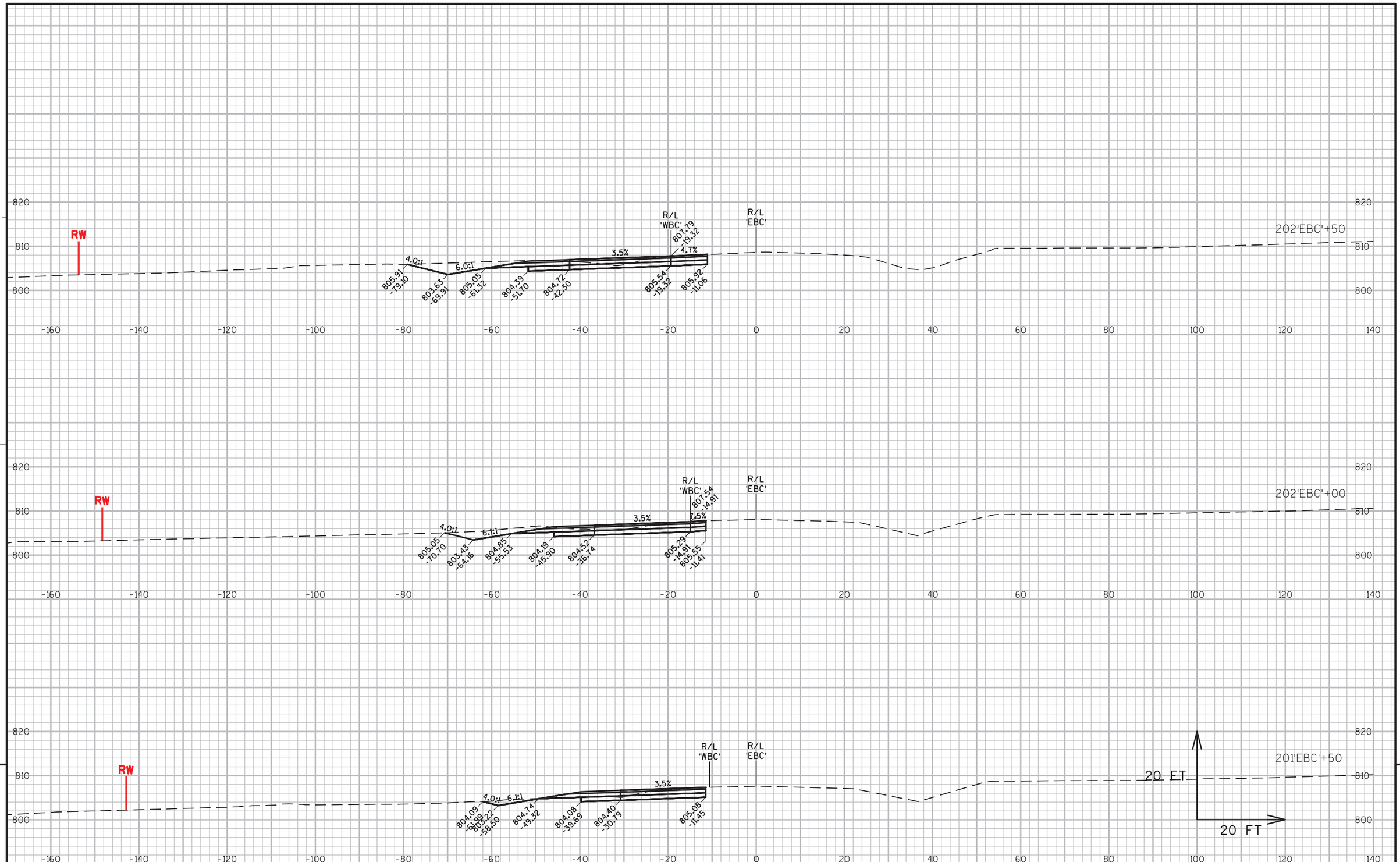
PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - TEMPORARY CONNECTION - WB	SHEET 323	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_091109.DGN
LAYOUT NAME - 091109_XS
PLOTTED : 10/20/2022 8:41 AM
PLOT BY : WENDT, SCOTT/MKE
PLOT NAME :
PLOT SCALE : 1" = 20'_XREF



PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - TEMPORARY CONNECTION-EB	SHEET 324	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_091201.DWG
LAYOUT NAME - 091201-XS
PLOTTED : 12/12/2022 9:20 AM
PLOT BY : WENDT, SCOTT/MKE
PLOT NAME :
PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



9

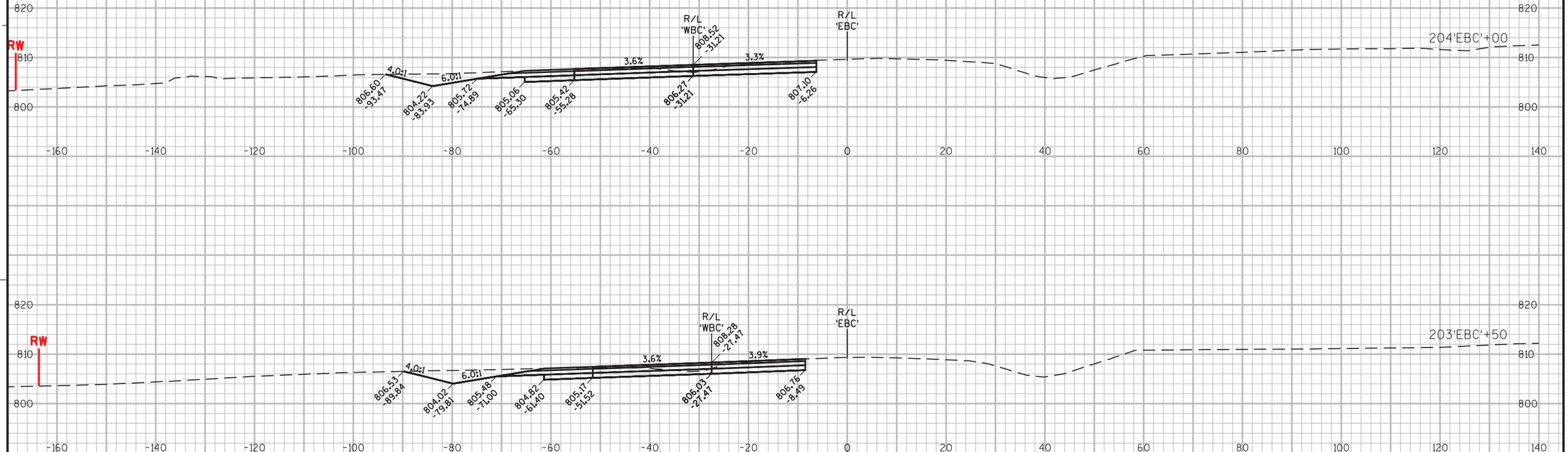
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PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - TEMPORARY CONNECTION-EB	SHEET 325	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_091202_XS_EBCTE.DWG
LAYOUT NAME - 091202-XS

PLOTTED : 9/12/2022 9:21 AM PLOT BY : WENDT, SCOTT/MKE PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

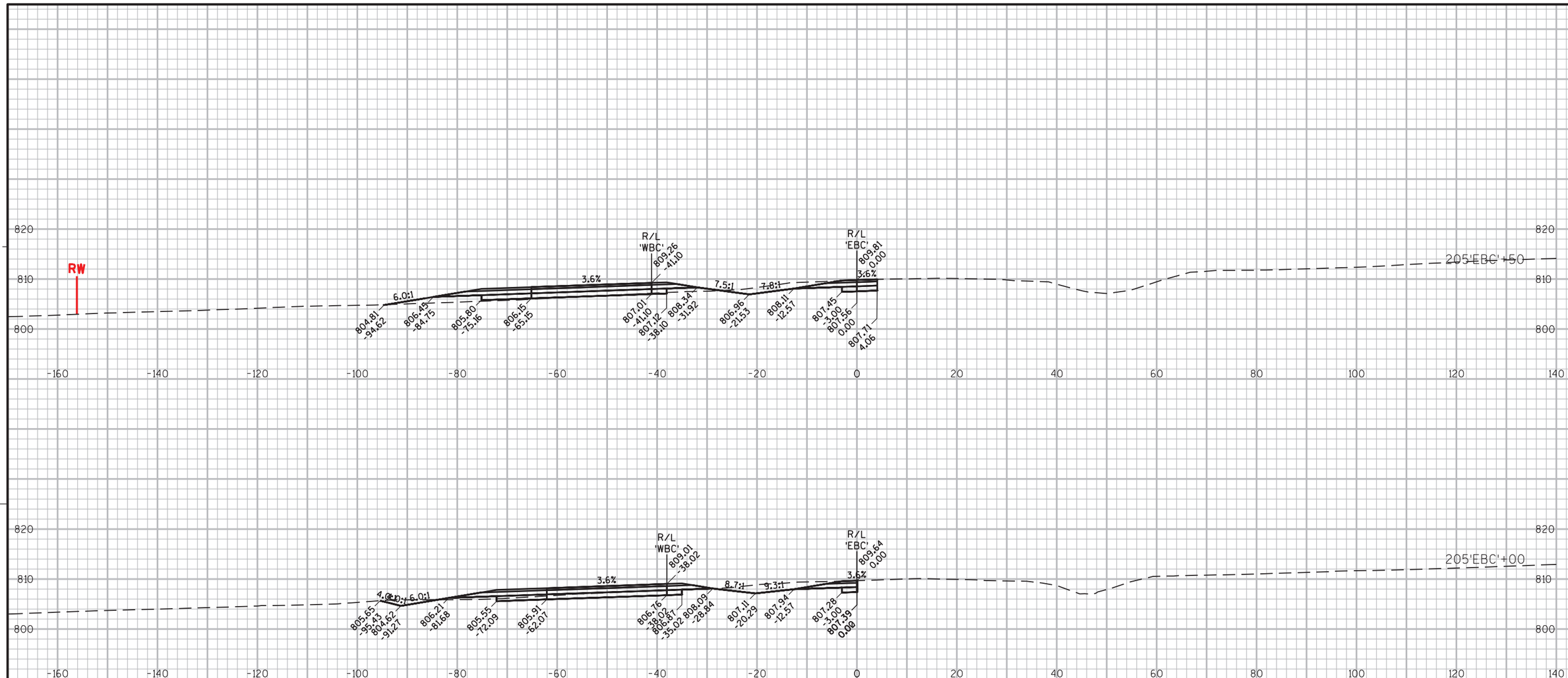


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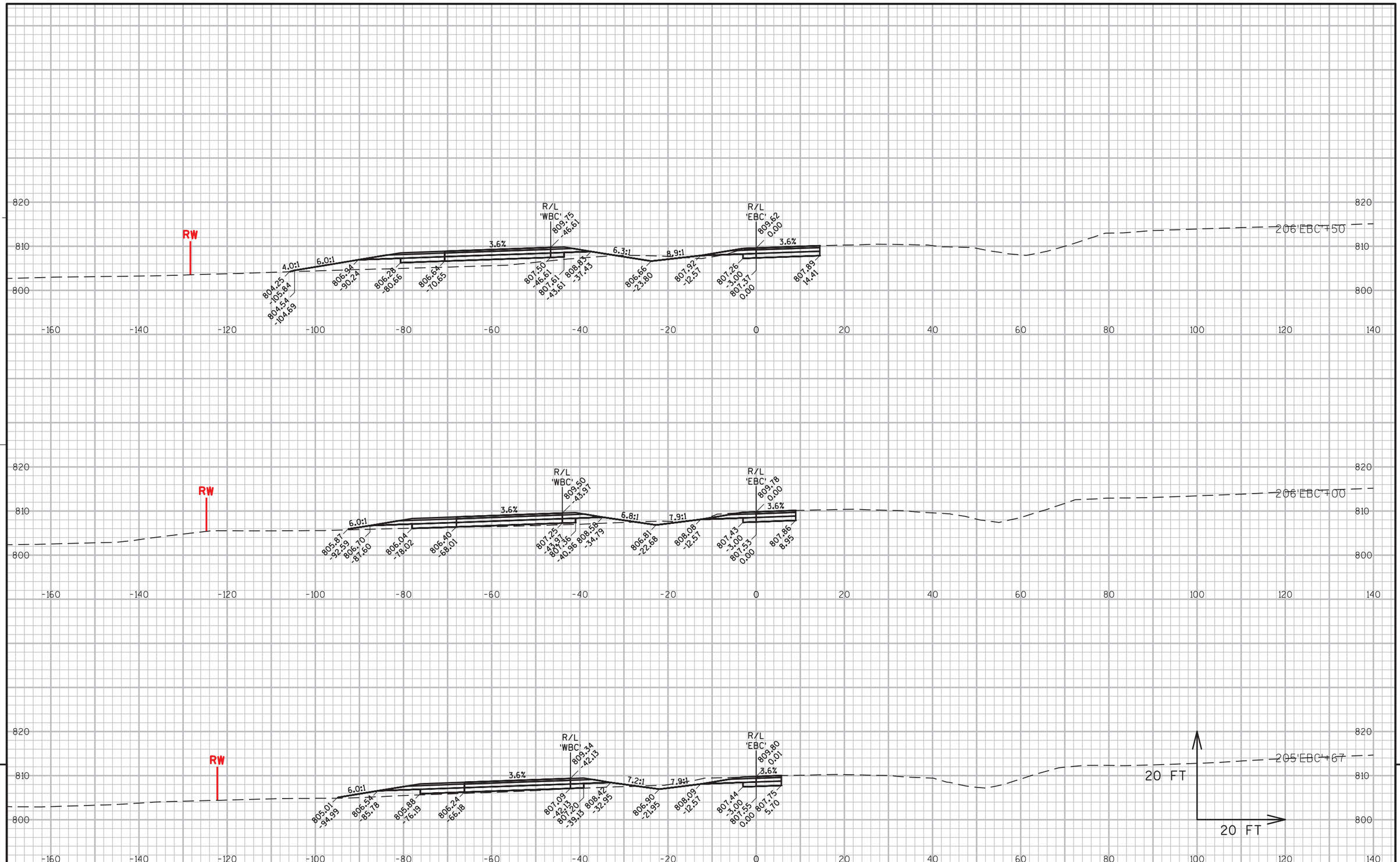
PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - TEMPORARY CONNECTION-EB	SHEET 326	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_09120PLXS (EBCT.DWG
LAYOUT NAME - 091203-XS
PLOTTED : 12/12/2022 9:22 AM
PLOT BY : WENDT, SCOTT/MKE
PLOT NAME :
PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - TEMPORARY CONNECTION-EB	SHEET 327	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_09120PLXS (EXCEL WB) 12/12/2022 9:23 AM
LAYOUT NAME - 091204-XS
PLOT BY : WENDT, SCOTT/MKE PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



9

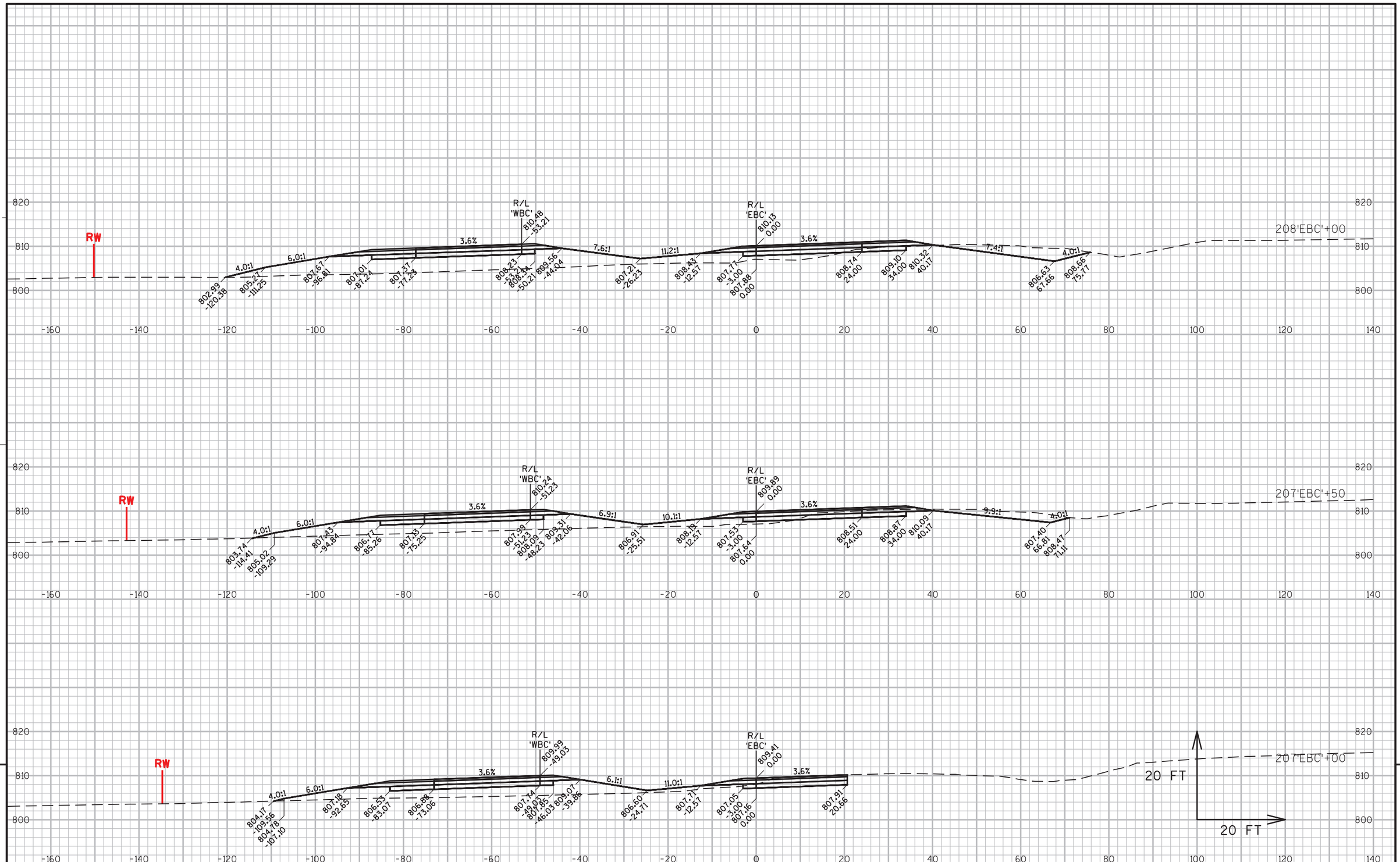
9

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - TEMPORARY CONNECTION-EB	SHEET 328	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_09120PLRS (EBCTE.DWG 12/12/2022 9:24 AM
LAYOUT NAME - 091205-XS

PLOT BY : WENDT, SCOTT/MKE PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



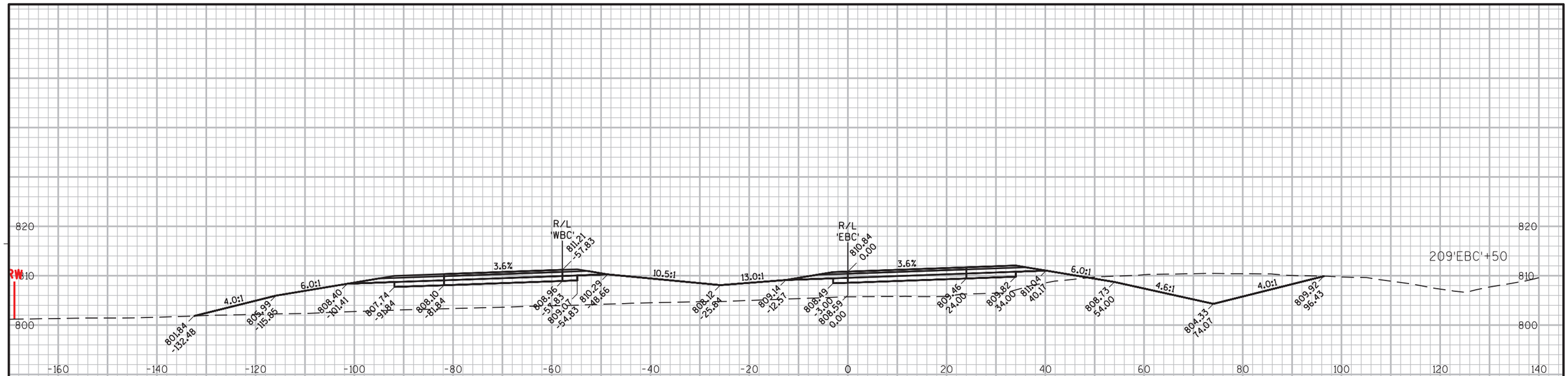
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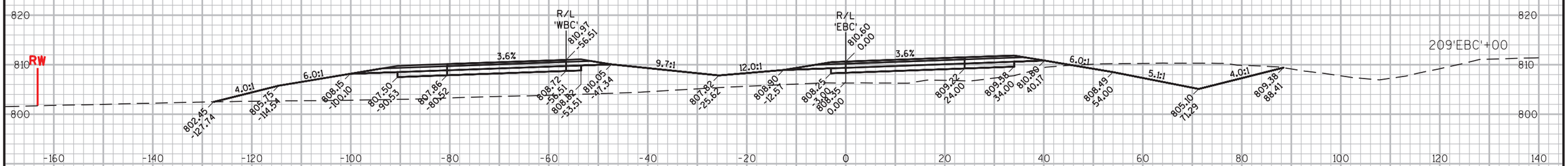
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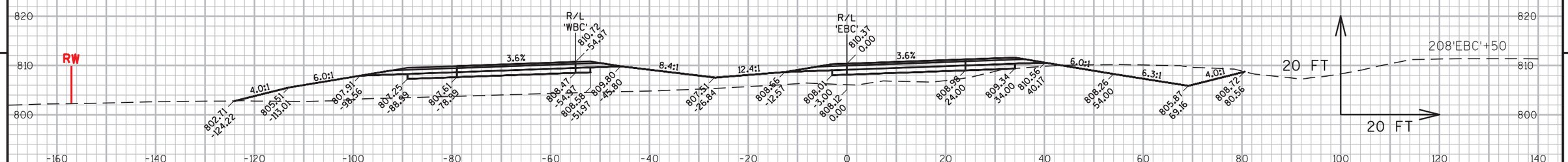
PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - TEMPORARY CONNECTION-EB	SHEET 329	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_091206.DWG
LAYOUT NAME - 091206-XS
PLOTTED : 12/12/2022 9:25 AM
PLOT BY : WENDT, SCOTT/MKE
PLOT NAME :
PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49





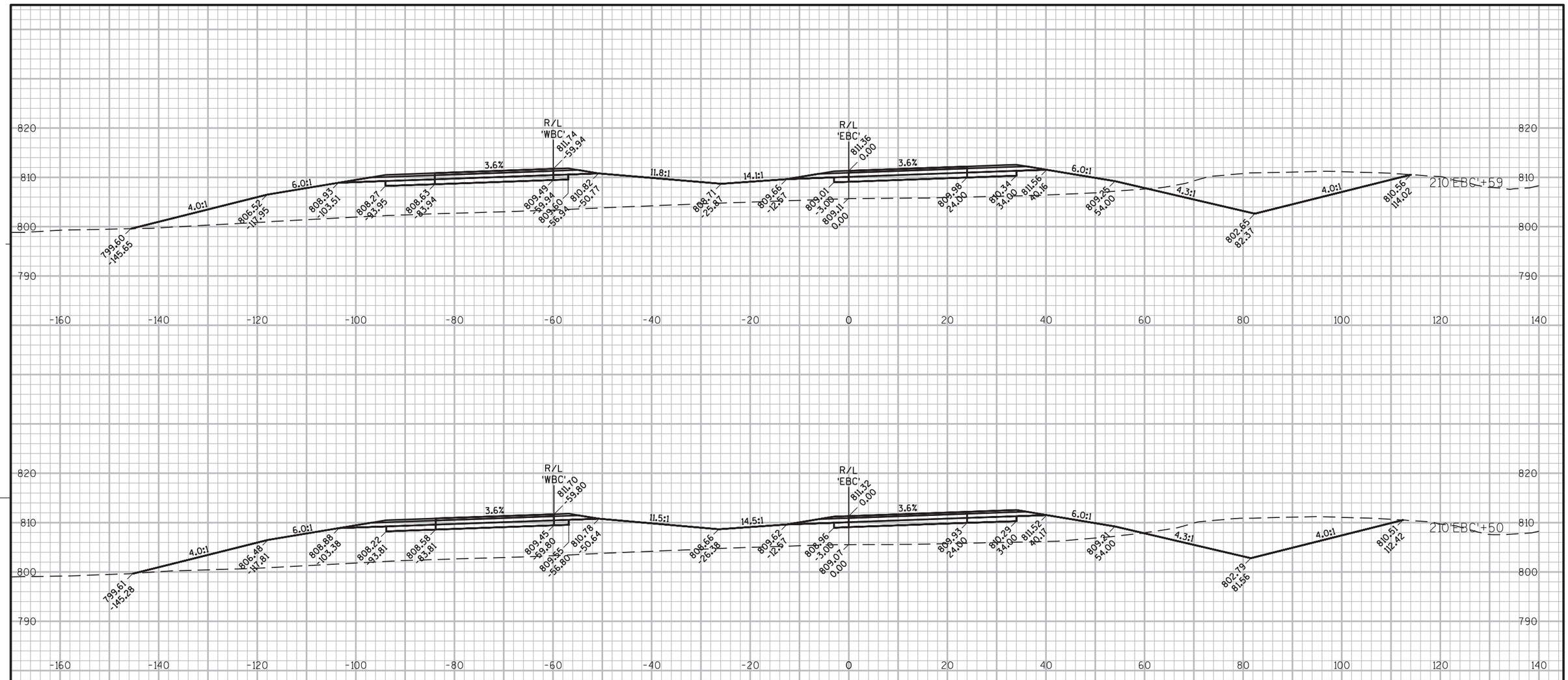


9

9

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - TEMPORARY CONNECTION-EB	SHEET 330	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_091207.DWG
LAYOUT NAME - 091207-XS
PLOTTED : 12/12/2022 9:26 AM
PLOT BY : WENDT, SCOTT/MKE
PLOT NAME :
PLOT SCALE : 1" = 20'_XREF



9

9

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - TEMPORARY CONNECTION-EB	SHEET 331	E

FILE NAME : C:\USERS\SWENDT1\ONEDRIVE - JACOBS\DOCUMENTS\WENDT\WORK\WISCONSIN\STH 15\CA 8\11467571\SHEETSPLAN\11467576\11467576_091208_XS_EBCTE.DWG 10/20/2022 8:26 AM
LAYOUT NAME - 091208-XS

PLOT BY : WENDT, SCOTT/MKE PLOT NAME : PLOT SCALE : 1" = 20'_XREF

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov

GRE

PROJECT ID: 1146-75-77

WITH: 1146-75-76

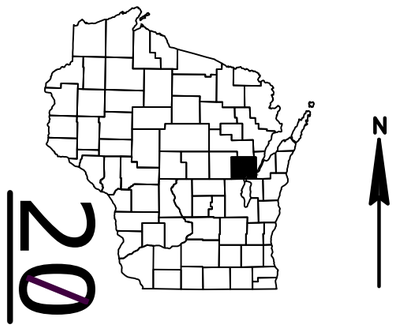
COUNTY: OUTAGAMIE

DECEMBER 2022

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 = 352



STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1146-75-77	WISC 2023104	1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

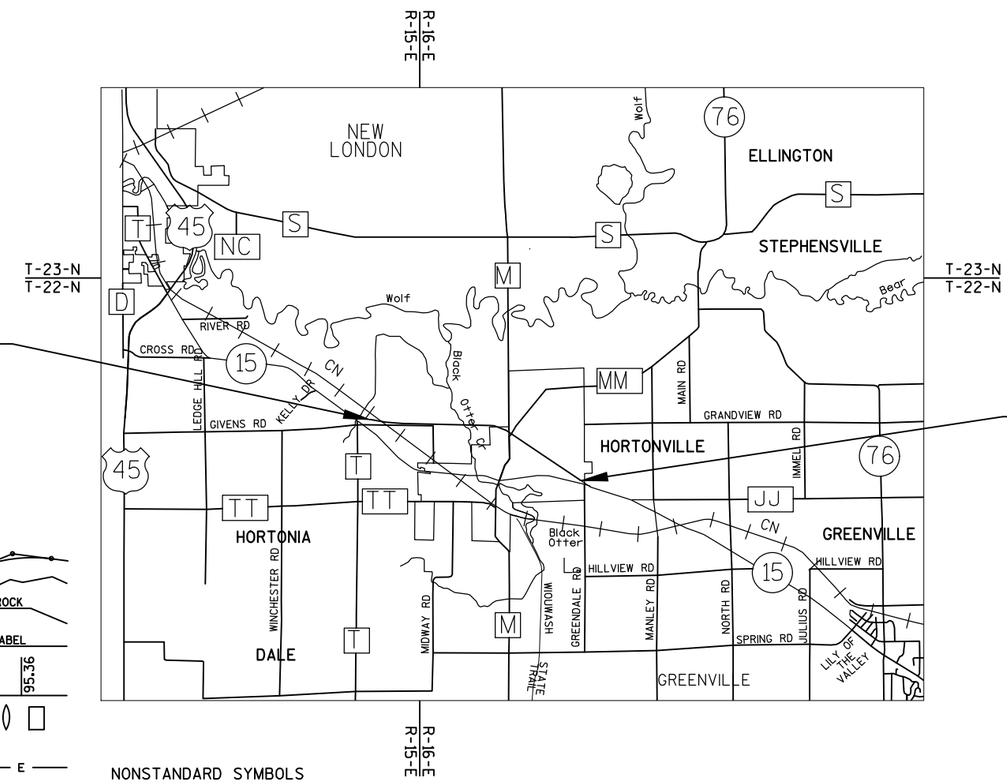
STH 76 – NEW LONDON

WI CENTRAL RR – CTH JJ

STH 15

OUTAGAMIE COUNTY

STATE PROJECT NUMBER
1146-75-77



CONVENTIONAL SYMBOLS

PLAN

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

NONSTANDARD SYMBOLS

- DRIVEWAY TO BE REMOVED (X)
- PROPOSED RELOCATION
- RETAINING WALL
- DITCH
- MEDIAN DRAIN/OUTFALL

LAYOUT SCALE 0 2 MILE

TOTAL NET LENGTH OF CENTERLINE = 3.598 MI

DESIGN DESIGNATION

A.A.D.T.	(2019)	= 12,200
A.A.D.T.	(2044)	= 21,600
D.H.V.		= 2,550
D.D.		= 62-38
T.		= 5.2%
DESIGN SPEED		= 60 MPH
ESALS		= 2,620,700

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, OUTAGAMIE COUNTY, NAD83 (2007) ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAN.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCE TO THE NORTH AMERICAN VERTICAL DATUM (NAVD) 88 (2007).

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WISDOT NORTHEAST REGION
Designer	MASON SIMMONS
Project Manager	WILLIAM BERTRAND
Regional Examiner	XXX
Regional Supervisor	TAMMY RABE

APPROVED FOR THE DEPARTMENT

DATE: 7/28/2022 William R Bertrand (Signature)

E

FILE NAME : C:\USERS\MUTHCM\DOCUMENTS\11467571-UPDATED\11467571\SHEETSPLAN\11467577\11467577_010101_TI.DWG
LAYOUT NAME - 010101_TI

PLOT DATE : 7/28/2022 10:54 AM

PLOT BY : MUTH, CAMERON

PLOT NAME :

UTILITIES

SPECTRUM
RUDI RUDIGER
5024 HEFFRON STREET
STEVENS POINT, WI 54481
(715) 302-1550
RUDI.RUDIGER@CHARTERCOM.COM

VILLAGE OF HORTONVILLE PUBLIC WORKS-SEWER & WATER
RYAN ST. JOHN
531 N NASH STREET
HORTONVILLE, WI 54944
(920) 819-1749
WWPT@VOHORTONVILLE.COM

WE ENERGIES-GAS/PETROLEUM
CODY BECKMAN
800 SOUTH LYNNDALE DRIVE
APPLETON, WI 54914
(920)380-3422 (O)
(920)428-1038 (M)
CODY.BECKMAN@WE-ENERGIES.COM

HORTONVILLE AREA SCHOOLS
BEN DUMKE
246 NORTH OLK STREET
HORTONVILLE, WI 54944
(920) 799-7900
BENDUMKE@HASD.ORG

WE ENERGIES-ELECTRIC
CHRISTOPHER SCHULZ
800 SOUTH LYNNDALE DRIVE
APPLETON, WI 54914
(414) 944-5553 (O)
(414) 588-0455 (M)
CHRIS.SCHULZ@WE-ENERGIES.COM

AT&T WISCONSIN - COMMUNICATIONS
CHUCK BARTELT
70 E. DIVISION STREET
FOND DU LAC, WI 54986
(920)410-5104
CB1461@ATT.COM

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

DNR AREA LIAISON

MATTHEW SCHAEVE
DEPARTMENT OF NATURAL RESOURCES
2984 SHAWANO AVE
GREEN BAY, WI 54303
PHONE: 920-662-5472
EMAIL: MATTHEW.SCHAEVE@WISCONSIN.GOV

COUNTY SURVEYOR OR SURVEYS CONTACT PERSON

CORMAC MCINNIS
944 VANDERPERREN WAY
GREEN BAY, WI 54304
PHONE: 920-492-5638
EMAIL: CORMAC.MCINNIS@DOT.WI.GOV

STANDARD ABBREVIATIONS

ADT	AVERAGE DAILY TRAFFIC
AEW	APRON ENDWALL
AGG	AGGREGATE
BAD	BASE AGGREGATE DENSE
BM	BENCH MARK
C&G	CURB AND GUTTER
C-C	CENTER TO CENTER
CPCM	CULVERT PIPE CORRUGATED METAL
CPRC	CULVERT PIPE REINFORCED CONCRETE
CPRCHE	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
CSD	CONCRETE SURFACE DRAIN
CTR	CENTER
CWT	HUNDRED WEIGHT
CY	CUBIC YARD
D	DEGREE OF CURVE
Δ	DELTA
DD	DIRECTIONAL DISTRIBUTION
DHV	DESIGN HOUR VOLUME
DIA OR Ø	DIAMETER
EL OR ELEV	ELEVATION
FS	FULL SUPERELEVATION
FT	FOOT
HE	HIGHWAY EASEMENT
HMA	HOT MIX ASPHALT
INCID	INCIDENTAL
INL	INLET
L	LENGTH OF CURVE
LF	LINEAR FOOT
LONG	LONGITUDINAL
LT	LEFT
MH	MANHOLE
ML OR M/L	MATCH LINE
NC	NORMAL CROWN
NTS	NOT TO SCALE
PAVT	PAVEMENT
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PI	POINT OF INTERSECTION
PLE	PERMANENT LIMITED EASEMENT
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
R	RADIUS
R/L	REFERENCE LINE
RO	RUN OFF LENGTH
RT	RIGHT
RW OR R/W	RIGHT OF WAY
SDD	STANDARD DETAIL DRAWINGS
SS	STORM SEWER
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
SSPRCHE	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
STA	STATION
SY	SQUARE YARD
SYM	SYMMETRICAL
T	TANGENT LENGTH
TEMP	TEMPORARY
TLE	TEMPORARY LIMITED EASEMENT
TYP	TYPICAL
V	VELOCITY OR DESIGN SPEED
VAR	VARIABLE OR VARIES
WM	WATER MAIN
YD	YARD

GENERAL NOTES

CURVE DATA IS BASED ON ARC DEFINITION.

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

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND ALL UTILITIES IN THE VICINITY OF THE PROJECT TO LOCATE THEIR FACILITIES AT LEAST THREE WORKING DAYS PRIOR TO BEGINNING WORK.

ANY UTILITY WHICH IS NOT A MEMBER OF DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

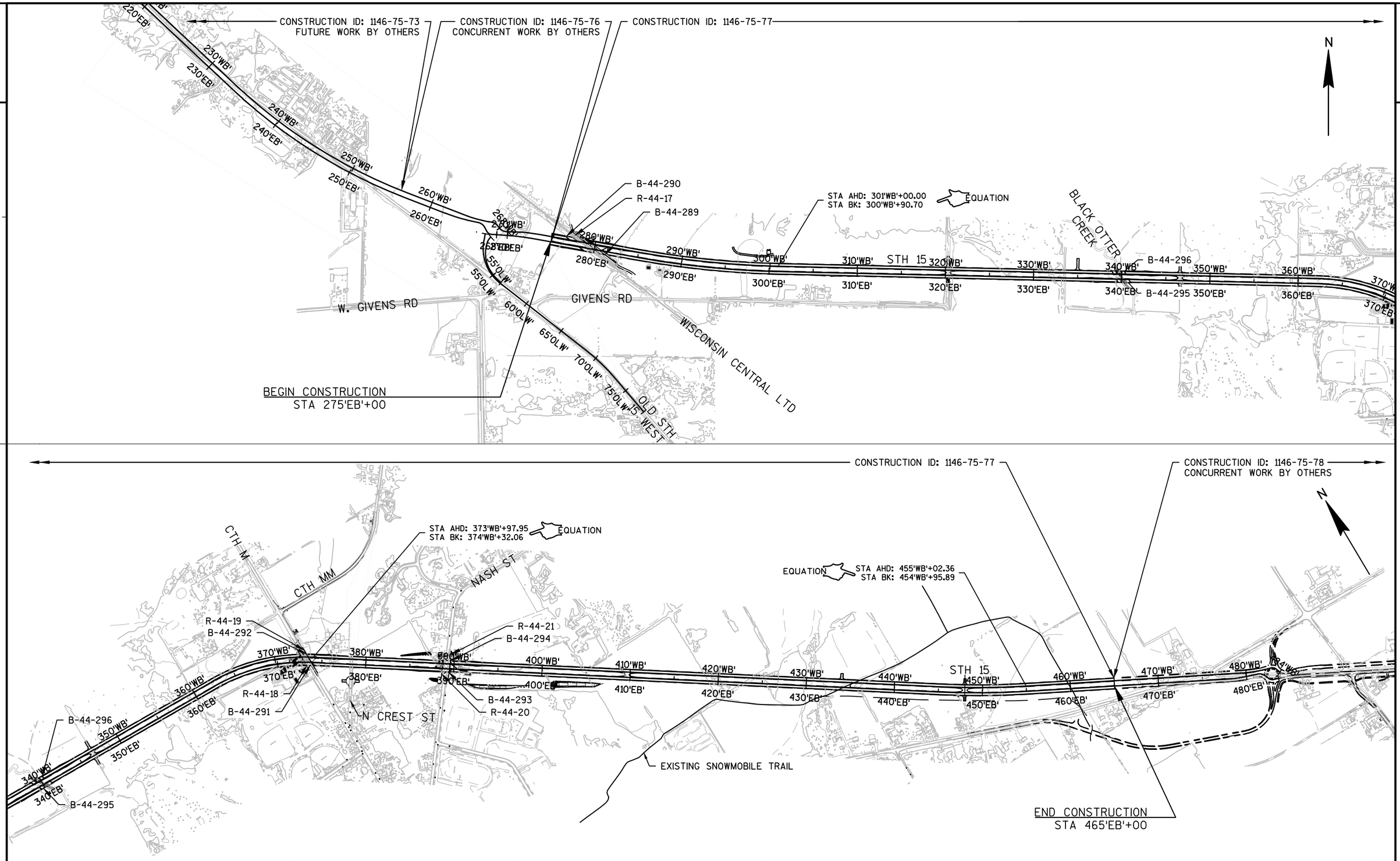
THE LOCATION OF SAW CUTS WILL BE DETERMINED OR AS APPROVED BY THE ENGINEER. SAW CUT JOINTS SHALL BE ACCOMPLISHED WITHOUT DAMAGE TO REMAINING PORTIONS.

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

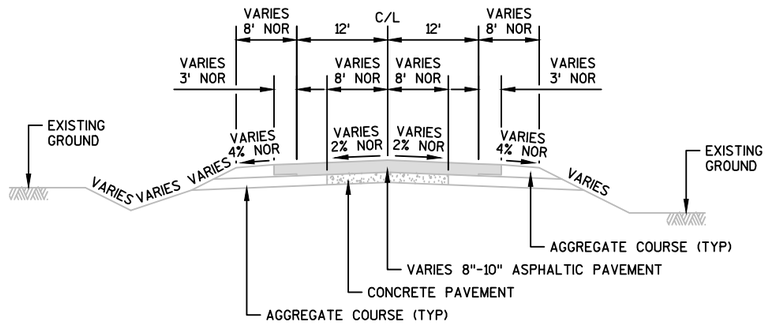
ALL RADII ARE MEASURED TO EDGE OF PAVEMENT UNLESS OTHERWISE SHOWN OR NOTED ON THE PLAN.

ORDER OF SECTION 2 SHEETS

-GENERAL NOTES
-PROJECT OVERVIEW
-TYPICAL SECTIONS
-CONSTRUCTION DETAILS
-PAVING GRADES
-PERMANENT SIGNING
-ALIGNMENT DIAGRAMS



PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PROJECT OVERVIEW	SHEET 3	E



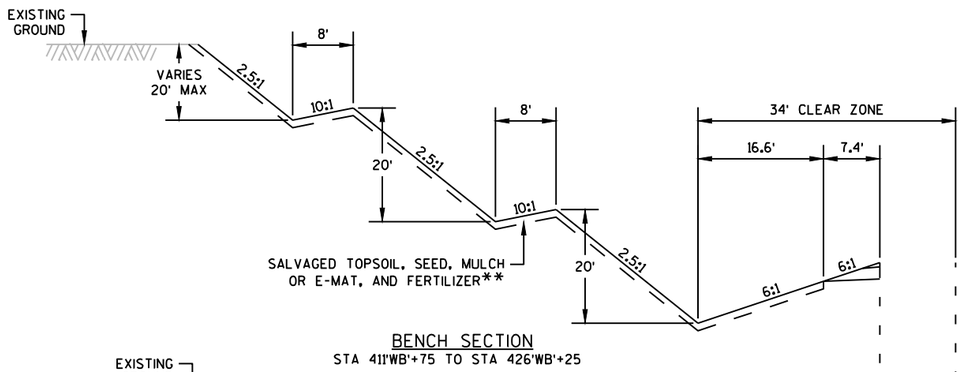
EXISTING TYPICAL SECTION

STH 15

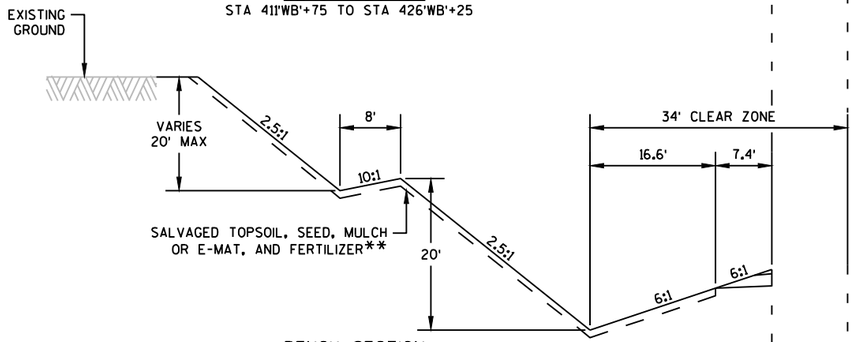
STA 219+50 TO STA 266+57
STA 468+00 TO STA 492+00
(OFF ALIGNMENT STA 266+57 - STA 468+00)

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	TYPICAL SECTIONS - EXISTING	SHEET 4	E

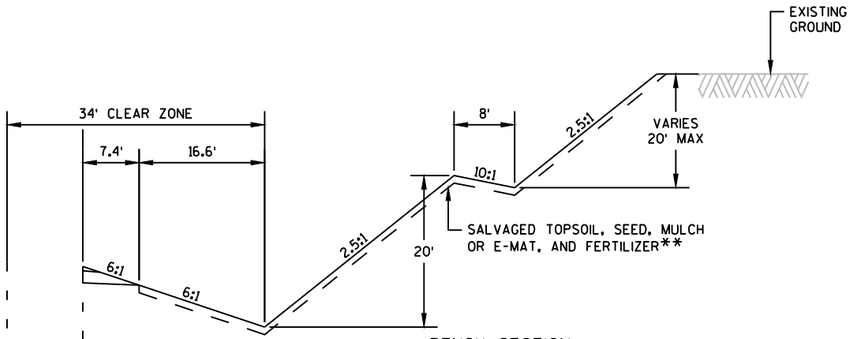
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467577\11467577_020301_TS.DWG
11467577_PLN - 020301_TS
PLOT DATE : 4/29/2019 3:07 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42



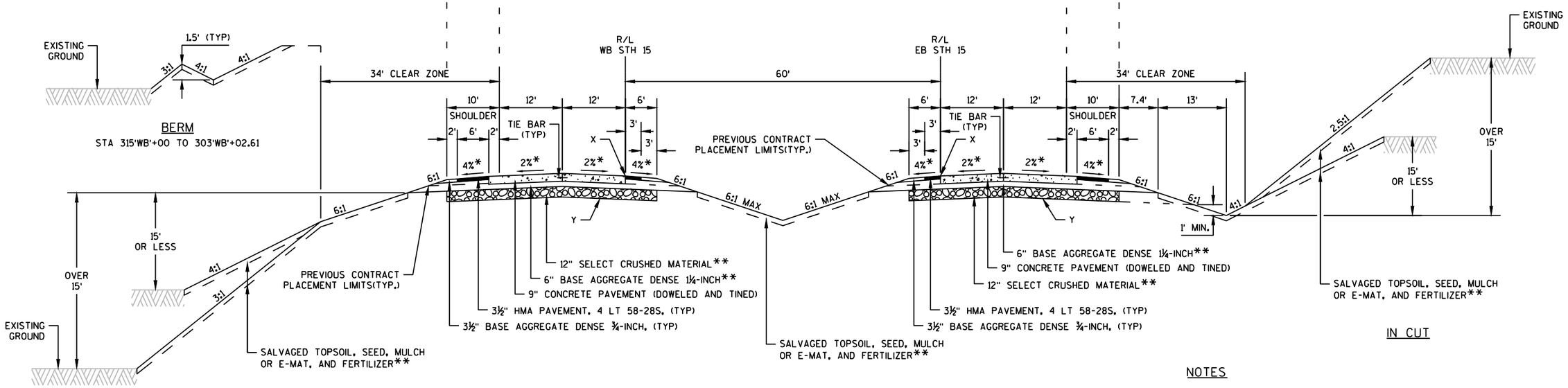
BENCH SECTION
STA 411'WB'+75 TO STA 426'WB'+25



BENCH SECTION
STA 378'WB'+75 TO STA 383'WB'+95
STA 437'WB'+40 TO STA 446'WB'+68



BENCH SECTION
STA 414'EB'+44 TO STA 426'EB'+25



IN FILL

IN CUT

FINISHED TYPICAL SECTION
STH 15

WEST BOUND
STA 275'WB'+00 TO 465'WB'+00

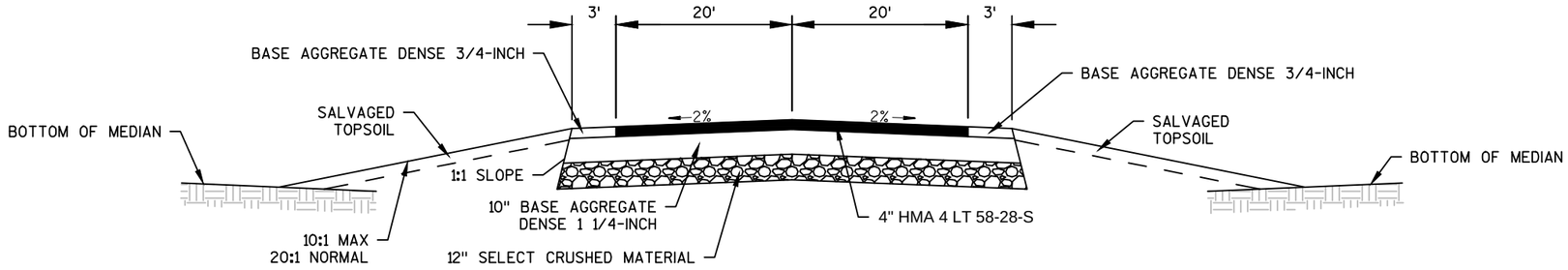
EAST BOUND
STA 275'EB'+00 TO 465'EB'+00

NOTES

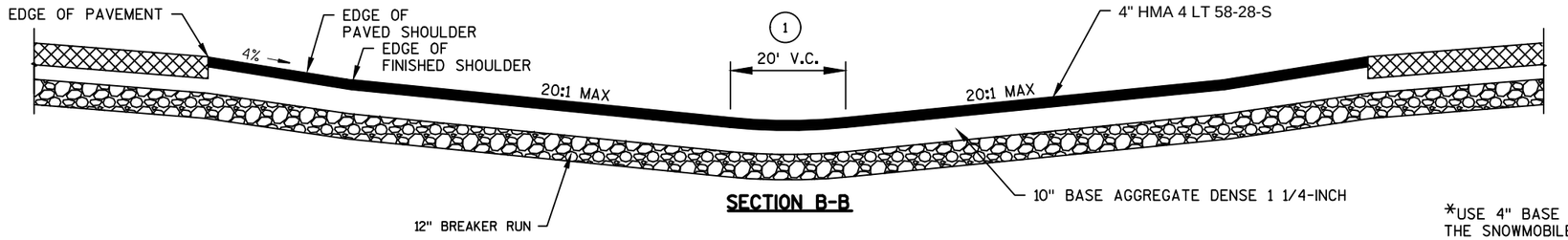
"X" = POINT REFERENCED TO ON PROFILE (PROFILE GRADE LINE - PGL)
"Y" = SUBGRADE REFERRED TO ON CROSS SECTIONS
* CROSS SLOPE VARIES DUE TO SUPERELEVATION (SEE CROSS SECTIONS AND SUPERELEVATION TABLE FOR FURTHER DETAILS)
** EXISTING - WORK DONE BY OTHERS; FINISH PLACEMENT UNDER SHOULDERS. SHOWN BY DASHED LINE IN SECTION.

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	TYPICAL SECTIONS - STH 15	SHEET 5 E

FILE NAME : C:\USERS\STEVENS\DESKTOP\11467577_020301_TS.DWG
11467577_PLN - 020302_TS
PLOT DATE : 10/2/2022 10:25 AM PLOT BY : STEVENSON, SCOTT PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

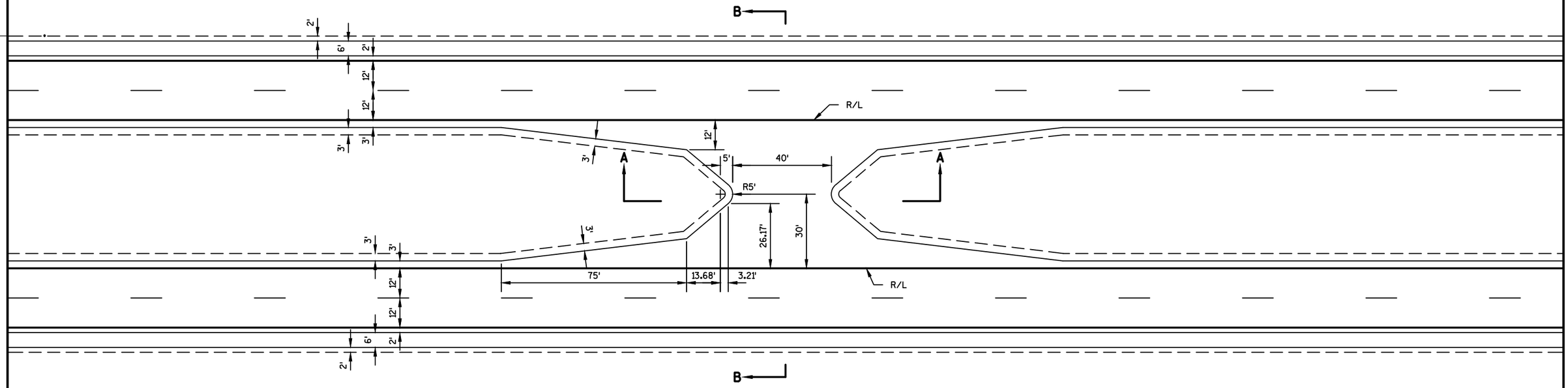


SECTION A-A



SECTION B-B

*USE 4" BASE AGGREGATE DENSE 3/4-INCH FOR THE SNOWMOBILE CROSSING STA 448'EB'+00



MEDIAN CROSSING DETAIL (2)

STA 320'EB'+30
STA 346'EB'+60
STA 409'EB'+68
STA 448'EB'+00*

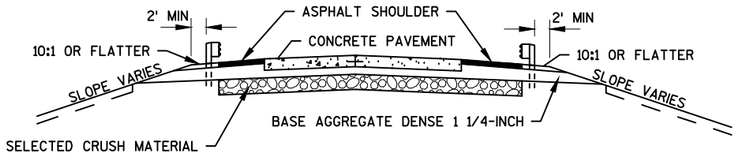
(1) ADJUST VERTICAL CURVE LOCATION LATERALLY TO MAINTAIN 20:1 MAX.

(2) SEE PERMANENT SIGNING PLAN FOR SIGN LOCATIONS.

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.

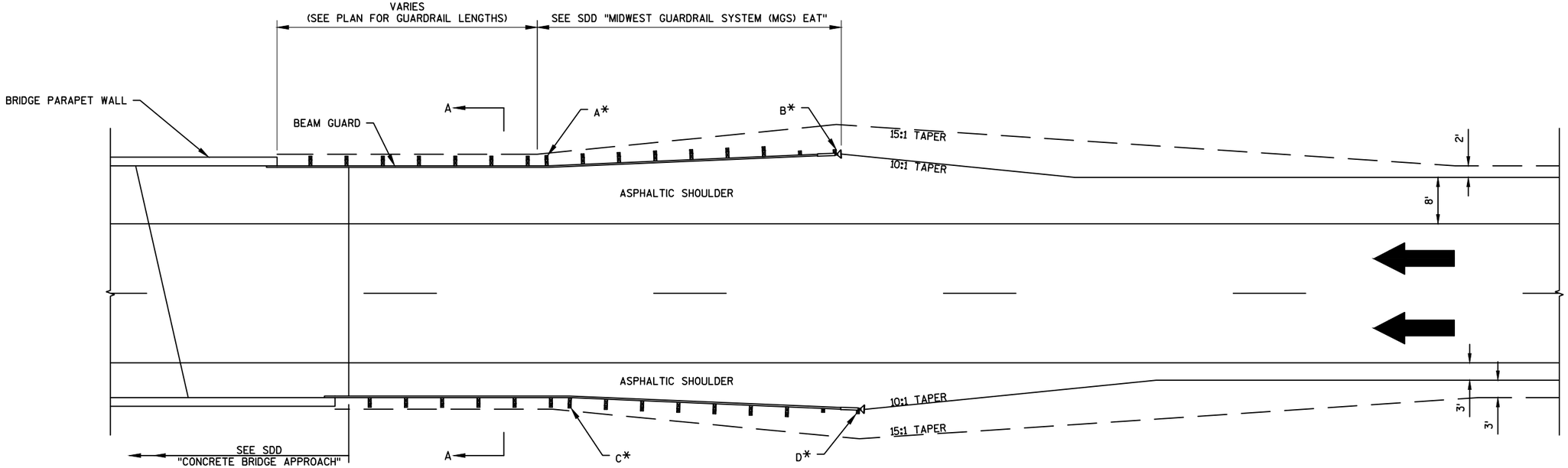
PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CONSTRUCTION DETAILS - MEDIAN CROSSINGS	SHEET 6	E



SECTION A-A

*MGS GUARDRAIL EAT CRITICAL STATIONS				
EB	A (POST 9)	B (POST 1)	C (POST 9)	D (POST 1)
RR BRIDGE (B-44-289)	276'EB'+94.40	276'EB'+44.40	275'EB'+55.13	275'EB'+05.13
BLACK OTTER CREEK (B-44-295)	337'EB'+71.45	337'EB'+21.45	337'EB'+10.86	336'EB'+60.86
CTH M (B-44-291)	371'EB'+29.29	370'EB'+79.29	369'EB'+38.96	368'EB'+88.96
NASH ST (B-44-293)	386'EB'+67.02	386'EB'+17.02	386'EB'+36.69	385'EB'+86.77

WB	A (POST 9)	B (POST 1)	C (POST 9)	D (POST 1)
RR BRIDGE (B-44-290)	281'WB'+15.44	281'WB'+65.44	282'WB'+54.72	283'WB'+04.72
BLACK OTTER CREEK (B-44-296)	342'WB'+13.94	342'WB'+63.94	342'WB'+74.53	343'WB'+24.53
CTH M (B-44-292)	375'WB'+25.97	375'WB'+75.97	375'WB'+88.59	376'WB'+38.59
NASH ST (B-44-294)	391'WB'+58.04	392'WB'+08.04	391'WB'+92.37	392'WB'+42.37



DETAIL FOR ASPHALTIC SHOULDER AT GUARDRAIL

2

N

STH 15

269'WB' 270'WB' 271'WB' 272'WB' 273'WB' 274'WB' 275'WB' 276'WB'

269'EB' 270'EB' 271'EB' 272'EB' 273'EB' 274'EB' 275'EB' 276'EB'

R/L STH 15 WB

R/L STH 15 EB

819.41	2.0%	819.53	819.66	819.78	819.91
819.69	2.0%	819.81	819.94	820.06	820.19
819.45		819.57	819.70	819.82	819.95

818.90	2.0%	819.02	819.15	819.28	819.40
819.15	2.0%	819.26	819.40	819.51	819.65
818.87		818.99	819.12	819.23	819.37

MATCHLINE 276'EB'+14

CONCURRENT BY OTHERS
I.D. 1146-75-76

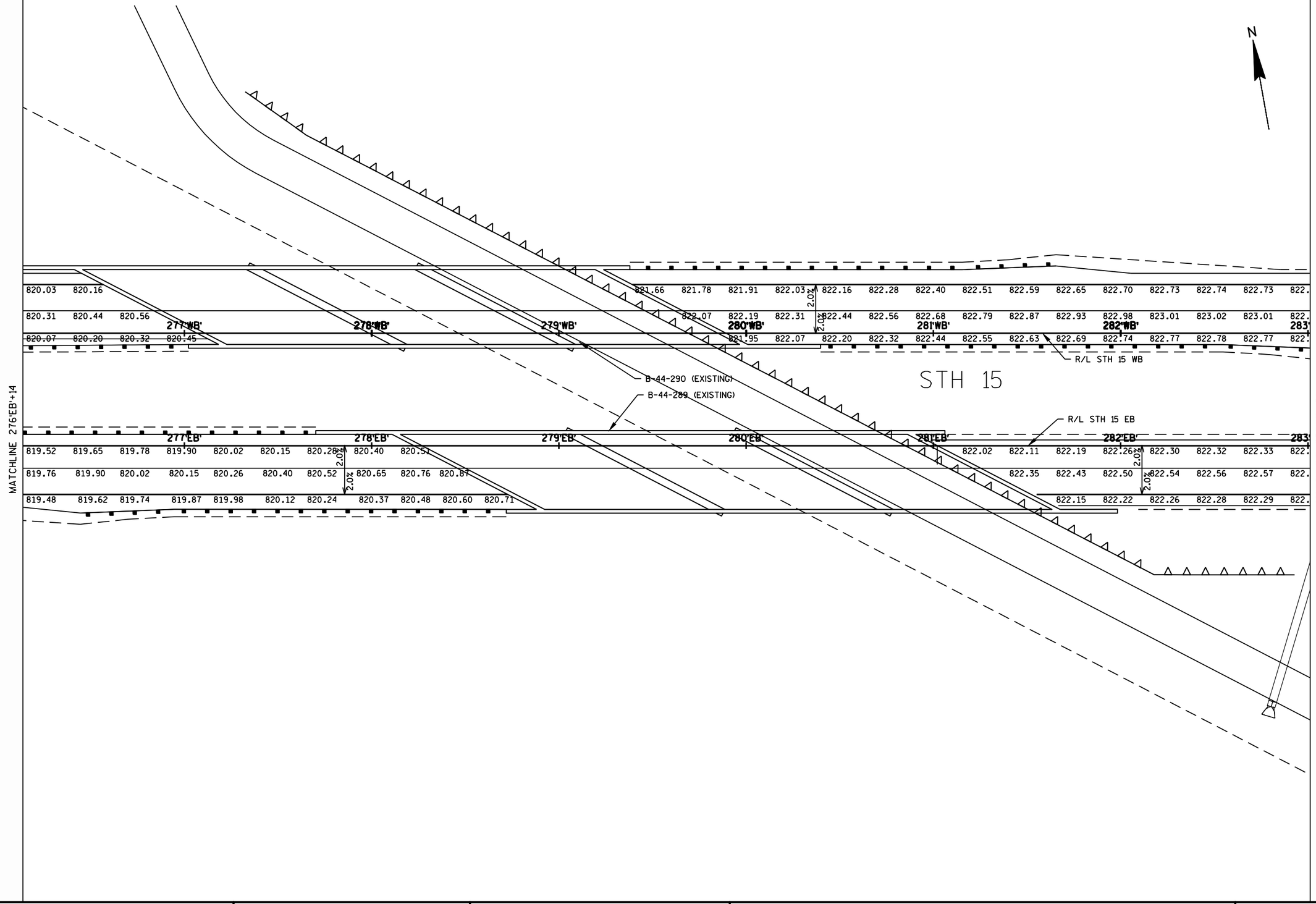
PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES	SHEET 8	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467577\11467577_021201_PG.DWG
LAYOUT NAME - 021203_PG

PLOT DATE : 4/3/2017 8:29 AM PLOT BY : SPIELMACHER, JOHN P PLOT NAME : PLOT SCALE : 1:50_XREF

WISDOT/CADDS SHEET 42

2



PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES	SHEET 9	E

2

N

71 822.66 822.60 822.48 822.31 822.11 821.90 821.68 821.43 821.18 820.97 820.75 820.50 820.24 819.96 819.66 819.35 819.01 818.66 818.29 817.90 817.49 817.07 816.62 816.16 815.68 815.19 814.67

99 822.94 822.88 822.76 822.59 822.39 822.18 821.96 821.71 821.46 821.25 821.03 820.78 820.52 820.24 819.94 819.63 819.29 818.94 818.57 818.18 817.77 817.35 816.90 816.44 815.96 815.46 814.95

WB' 284'WB' 285'WB' 286'WB' 287'WB' 288'WB' 289'WB'

75 822.70 822.64 822.56 822.46 822.35 822.21 822.06 821.89 821.70 821.49 821.27 821.02 820.76 820.48 820.18 819.87 819.53 819.18 818.81 818.42 818.01 817.59 817.14 816.68 816.20 815.71 815.19

R/L STH 15 WB

STH 15

R/L STH 15 EB

EB' 284'EB' 285'EB' 286'EB' 287'EB' 288'EB' 289'EB'

32 822.29 822.24 822.18 822.10 821.99 821.88 821.74 821.58 821.41 821.22 821.01 820.78 820.53 820.27 819.98 819.68 819.37 819.03 818.67 818.30 817.91 817.50 817.07 816.63 816.16 815.68 815.18

56 822.53 822.48 822.42 822.34 822.23 822.12 821.98 821.82 821.65 821.46 821.25 821.02 820.77 820.51 820.22 819.92 819.61 819.27 818.91 818.54 818.15 817.74 817.31 816.87 816.40 815.92 815.42

28 822.25 822.20 822.19 822.19 822.18 822.15 822.10 822.03 821.93 821.74 821.53 821.30 821.05 820.79 820.50 820.20 819.89 819.55 819.19 818.82 818.43 818.02 817.59 817.15 816.68 816.20 815.70

MATCHLINE 283'EB'+01

MATCHLINE 289'EB'+89

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES	SHEET 10	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467577\11467577_021201_PG.DWG
LAYOUT NAME - 021205_PG

PLOT DATE : 4/3/2017 8:29 AM PLOT BY : SPIELMACHER, JOHN P PLOT NAME : PLOT SCALE : 1:50_XREF

WISDOT/CADDS SHEET 42

2

2

N

814.14	813.58	813.01	812.42	811.82	811.19	810.55	809.89	809.21	808.51	807.80	2.0%	807.06	806.32	805.57	804.82	804.08	803.33	802.58	801.84	801.09	800.34	799.60	798.85	798.10	797.36	796.61	795.86	79
814.42	813.86	813.29	812.70	812.10	811.47	810.83	810.17	809.49	808.79	808.08	2.0%	807.34	806.60	805.85	805.10	804.36	803.61	802.86	802.12	801.37	800.62	799.88	799.13	798.38	797.64	796.89	796.14	79
290'WB'				291'WB'				292'WB'					293'WB'					294'WB'				295'WB'				296'WB'			
814.66	814.10	813.53	812.94	812.34	811.71	811.07	810.41	809.73	809.03	808.32		807.58	806.84	806.09	805.34	804.60	803.85	803.10	802.36	801.61	800.86	800.11	799.37	798.62	797.88	797.13	796.38	79

R/L STH 15 WB

STH 15

R/L STH 15 EB

290'EB'				291'EB'				292'EB'					293'EB'					294'EB'				295'EB'				296'EB'			
814.66	814.13	813.57	813.00	812.41	811.80	811.18	810.53	809.87	809.19	808.49	2.0%	807.77	807.04	806.29	805.55	804.80	804.06	803.31	802.57	801.82	801.08	800.34	799.59	798.85	798.10	797.36	796.61	795.
814.90	814.37	813.81	813.24	812.65	812.04	811.42	810.77	810.11	809.43	808.73	2.0%	808.01	807.27	806.53	805.79	805.04	804.30	803.55	802.81	802.06	801.32	800.58	799.83	799.09	798.34	797.60	796.85	796.
815.18	814.65	814.09	813.52	812.93	812.32	811.70	811.05	810.39	809.71	809.01		808.29	807.55	806.81	806.06	805.32	804.58	803.83	803.09	802.34	801.60	800.86	800.11	799.37	798.62	797.88	797.13	796.

MATCHLINE 289'EB'+89

MATCHLINE 296'EB'+76

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES	SHEET 11	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467577\11467577_021201_PG.DWG
LAYOUT NAME - 021206_PG

PLOT DATE : 4/3/2017 8:29 AM PLOT BY : SPIELMACHER, JOHN P PLOT NAME : PLOT SCALE : 1:50_XREF

2

N

STA BACK = 300+90.70'WB'
STA AHEAD = 301+00.00'WB'

95.13	794.42	793.72	793.03	792.37	2.0%	791.72	791.08	790.47	789.87	789.28	788.71	788.16	787.63	787.11	786.61	786.12	2.0%	785.69	2.0%	785.36	785.08	2.0%	784.73	2.0%	784.40	2.0%	784.08	2.0%	783.78	2.0%	783.44	783.10	782.77	782.46	782.17
95.41	794.70	794.00	793.31	792.65	2.0%	792.00	791.36	790.75	790.15	789.56	788.99	788.44	787.91	787.39	786.89	786.40	2.0%	785.97	1.4%	785.65	785.36	0.4%	785.01	0.2%	784.68	0.3%	784.36	1.5%	784.06	2.0%	783.72	783.38	783.05	782.74	782.45
95.65	794.94	794.24	793.55	792.89		792.24	791.60	790.99	790.39	789.80	789.23	788.68	788.15	787.63	787.13	786.64		786.17		785.80	785.44		785.02		784.61		784.22		783.84		783.48	783.14	782.81	782.50	782.21

297'WB' 298'WB' 299'WB' 300'WB' 302'WB' 303'WB'

R/L STH 15 WB

STH 15

R/L STH 15 EB

297'EB' 298'EB' 299'EB' 300'EB' 301'EB' 302'EB' 303'EB'

88	795.16	794.45	793.77	793.10	792.44	2.0%	791.81	791.18	790.58	789.99	789.42	788.86	788.32	787.80	787.29	786.80	2.0%	786.33	2.0%	785.87	2.0%	785.43	2.0%	785.01	2.0%	784.60	2.0%	784.21	2.0%	783.83	2.0%	783.47	783.13	782.80	782.49	782.20
12	795.40	794.69	794.01	793.34	792.68	2.0%	792.05	791.42	790.82	790.23	789.66	789.10	788.56	788.04	787.53	787.04	2.0%	786.57	1.6%	786.11	1.0%	785.67	0.4%	785.25	0.2%	784.84	0.8%	784.45	1.5%	784.07	2.0%	783.71	783.37	783.04	782.73	782.44
40	795.68	794.97	794.29	793.62	792.96		792.33	791.70	791.10	790.51	789.94	789.38	788.84	788.32	787.81	787.32		786.84		786.30		785.77		785.26		784.76		784.28		783.82		783.43	783.09	782.76	782.45	782.16

MATCHLINE 296'EB'+76

MATCHLINE 303'EB'+64

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES	SHEET 12	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467577\11467577_021201_PG.DWG
LAYOUT NAME - 021207_PG

PLOT DATE : 4/3/2017 8:29 AM PLOT BY : SPIELMACHER, JOHN P PLOT NAME : PLOT SCALE : 1:50_XREF

WISDOT/CADDS SHEET 42

2

N

781.89 781.63 781.38 781.15 780.94 780.75 780.57 780.40 780.26 780.13 780.01 779.92 779.83 779.74 779.65 779.56 779.47 779.39 779.30 779.21 779.12 779.03 778.94 778.85 778.77 778.68 778.59 778.

2.0%

782.17 781.91 781.66 781.43 781.22 781.03 780.85 780.68 780.54 780.41 780.29 780.20 780.11 780.02 779.93 779.84 779.75 779.67 779.58 779.49 779.40 779.31 779.22 779.13 779.05 778.96 778.87 778.

304'WB' 305'WB' 306'WB' 307'WB' 308'WB' 309'WB' 310'WB'

781.93 781.67 781.43 781.19 780.98 780.79 780.61 780.44 780.30 780.17 780.05 779.96 779.87 779.78 779.69 779.61 779.51 779.43 779.34 779.25 779.16 779.07 778.99 778.90 778.81 778.72 778.64 778.

R/L STH 15 WB

STH 15

R/L STH 15 EB

304'EB' 305'EB' 306'EB' 307'EB' 308'EB' 309'EB' 310'EB'

781.92 781.66 781.42 781.19 780.98 780.78 780.60 780.44 780.29 780.17 780.05 779.96 779.87 779.78 779.69 779.60 779.51 779.42 779.33 779.25 779.16 779.07 778.98 778.89 778.80 778.71 778.63 778.

2.0%

782.16 781.90 781.66 781.43 781.22 781.02 780.84 780.68 780.53 780.41 780.29 780.20 780.11 780.02 779.93 779.84 779.75 779.66 779.57 779.49 779.40 779.31 779.22 779.13 779.04 778.95 778.87 778.

781.88 781.62 781.38 781.15 780.94 780.74 780.56 780.40 780.25 780.13 780.01 779.92 779.83 779.74 779.65 779.56 779.47 779.38 779.29 779.21 779.12 779.03 778.94 778.85 778.76 778.67 778.59 778.

MATCHLINE 303'EB'+64

MATCHLINE 310'EB'+51

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES	SHEET 13	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467577\11467577_021201_PG.DWG
LAYOUT NAME - 021208_PG

PLOT DATE : 4/3/2017 8:29 AM PLOT BY : SPIELMACHER, JOHN P PLOT NAME : PLOT SCALE : 1:50_XREF

WISDOT/CADDS SHEET 42

2

N

MATCHLINE 310'EB'+51

50 778.41 778.32 778.23 2.0% 778.15 778.06 777.97 777.88 777.79 777.70 777.61 777.53 777.44 777.35 777.26 777.17 777.08 776.99 776.90 776.82 776.73 776.64 776.55 776.46 776.37 776.28 776.20 776.11

78 778.69 778.60 778.51 2.0% 778.43 778.34 778.25 778.16 778.07 777.98 777.89 777.81 777.72 777.63 777.54 777.45 777.36 777.27 777.18 777.10 777.01 776.92 776.83 776.74 776.65 776.56 776.48 776.39

311'WB' 312'WB' 313'WB' 314'WB' 315'WB' 316'WB' 317'WB'

54 778.45 778.36 778.28 778.19 778.10 778.01 777.92 777.83 777.74 777.65 777.57 777.48 777.39 777.30 777.21 777.12 777.03 776.94 776.86 776.77 776.68 776.59 776.50 776.41 776.32 776.24 776.15

R/L STH 15 WB

STH 15

R/L STH 15 EB

311'EB' 312'EB' 313'EB' 314'EB' 315'EB' 316'EB' 317'EB'

54 778.45 778.36 778.27 2.0% 778.18 778.09 778.01 777.92 777.83 777.74 777.65 777.56 777.47 777.39 777.30 777.21 777.12 777.03 776.94 776.85 776.77 776.68 776.59 776.50 776.41 776.32 776.23 776.15

78 778.69 778.60 778.51 2.0% 778.42 778.33 778.25 778.16 778.07 777.98 777.89 777.80 777.71 777.63 777.54 777.45 777.36 777.27 777.18 777.09 777.01 776.92 776.83 776.74 776.65 776.56 776.47 776.39

50 778.41 778.32 778.23 778.14 778.05 777.97 777.88 777.79 777.70 777.61 777.52 777.43 777.35 777.26 777.17 777.08 776.99 776.90 776.81 776.73 776.64 776.55 776.46 776.37 776.28 776.19 776.11

MATCHLINE

MATCHLINE 317'EB'+39

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES	SHEET 14	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467577\11467577_021201_PG.DWG
LAYOUT NAME - 021209_PG
PLOT DATE : 4/3/2017 8:30 AM
PLOT BY : SPIELMACHER, JOHN P PLOT NAME :
PLOT SCALE : 1:50_XREF

2

N

EXISTING B.A.D. 3/4-INCH F.E.

MATCHLINE 317'EB'+39

776.02	775.93	775.84	775.75	2.0%	775.66	775.58	775.49	775.40	775.31	775.22	775.13	775.04	774.96	774.87	774.78	774.69	774.60	774.51	774.42	774.34	774.25	774.16	774.07	773.98	773.89	773.80	773.71	773.			
776.30	776.21	776.12	776.03	2.0%	775.94	775.86	775.77	775.68	775.59	775.50	775.41	775.32	775.24	775.15	775.06	774.97	774.88	774.79	774.70	774.62	774.53	774.44	774.35	774.26	774.17	774.08	773.99	773.			
		318'WB'					319'WB'				320'WB'				321'WB'				322'WB'				323'WB'				324'WB'				
776.06	775.97	775.88	775.79		775.70	775.62	775.53	775.44	775.35	775.26	775.17	775.08	775.00	774.91	774.82	774.73	774.64	774.55	774.46	774.38	774.29	774.20	774.11	774.02	773.93	773.84	773.75	773.			

R/L STH 15 WB

STH 15

MEDIAN CROSSING (ASPHALTIC SURFACE)
SEE CONSTRUCTION DETAILS

R/L STH 15 EB

		318'EB'					319'EB'				320'EB'				321'EB'				322'EB'				323'EB'				324'EB'				
776.06	775.97	775.88	775.79	2.0%	775.70	775.61	775.53	775.44	775.35	775.26	775.17	775.08	774.99	774.91	774.82	774.73	774.64	774.55	774.46	774.37	774.29	774.20	774.11	774.02	773.93	773.84	773.75	773.			
776.30	776.21	776.12	776.03	2.0%	775.94	775.85	775.77	775.68	775.59	775.50	775.41	775.32	775.23	775.15	775.06	774.97	774.88	774.79	774.70	774.61	774.53	774.44	774.35	774.26	774.17	774.08	773.99	773.			
776.02	775.93	775.84	775.75	2.0%	775.66	775.57	775.49	775.40	775.31	775.22	775.13	775.04	774.95	774.87	774.78	774.69	774.60	774.51	774.42	774.33	774.25	774.16	774.07	773.98	773.89	773.80	773.71	773.			

MATCHLINE 324'EB'+26

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES	SHEET 15	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467577\11467577_021201_PG.DWG
LAYOUT NAME - 021210_PG

PLOT DATE : 4/3/2017 8:30 AM PLOT BY : SPIELMACHER, JOHN P PLOT NAME : PLOT SCALE : 1:50_XREF

WISDOT/CADDS SHEET 42

2

N

MATCHLINE 324'EB'+26

63 773.54 773.45 773.36 773.27 2.0% 773.18 773.09 773.01 772.92 772.83 772.74 772.65 772.56 772.47 772.39 772.30 772.21 772.12 772.03 771.94 771.85 771.77 771.68 771.59 771.50 771.41 771.32 771.23

91 773.82 773.73 773.64 773.55 2.0% 773.46 773.37 773.29 773.19 773.11 773.02 772.93 772.84 772.75 772.67 772.58 772.49 772.40 772.31 772.22 772.13 772.05 771.96 771.87 771.78 771.69 771.60 771.51

325'WB' 326'WB' 327'WB' 328'WB' 329'WB' 330'WB' 331'WB'

67 773.58 773.49 773.40 773.31 773.22 773.13 773.05 772.96 772.87 772.78 772.69 772.60 772.51 772.43 772.34 772.25 772.16 772.07 771.98 771.89 771.81 771.72 771.63 771.54 771.45 771.36 771.27

R/L STH 15 WB

STH 15

R/L STH 15 EB

325'EB' 326'EB' 327'EB' 328'EB' 329'EB' 330'EB' 331'EB'

66 773.58 773.49 773.40 773.31 2.0% 773.22 773.13 773.04 772.96 772.87 772.78 772.69 772.60 772.51 772.42 772.34 772.25 772.16 772.07 771.98 771.89 771.80 771.72 771.63 771.54 771.45 771.36 771.27

90 773.82 773.73 773.64 773.55 2.0% 773.46 773.37 773.28 773.20 773.11 773.02 772.93 772.84 772.75 772.66 772.58 772.49 772.40 772.31 772.22 772.13 772.04 771.96 771.87 771.78 771.69 771.60 771.51

62 773.54 773.45 773.36 773.27 773.18 773.09 773.00 772.92 772.83 772.74 772.65 772.56 772.47 772.38 772.30 772.21 772.12 772.03 771.94 771.85 771.76 771.68 771.59 771.50 771.41 771.32 771.23

MATCHLINE

MATCHLINE 331'EB'+14

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES	SHEET 16	E

2

N

EXISTING B.A.D. 3/4-INCH F.E.

R/L STH 15 WB

STH 15

R/L STH 15 EB

MATCHLINE 331'EB'+14

MATCHLINE 338'EB'+01

771.14	771.06	770.97	770.88	770.79	2.0%	770.70	770.61	770.52	770.44	770.35	770.26	770.17	770.08	769.99	769.90	769.80	769.70	769.61	769.51	769.40	769.30	769.19	769.09	768.98	768.87	768.75	768.64	768.
771.42	771.34	771.25	771.16	771.07	2.0%	770.98	770.89	770.80	770.72	770.63	770.54	770.45	770.36	770.27	770.18	770.08	769.98	769.89	769.79	769.68	769.58	769.47	769.37	769.26	769.15	769.03	768.92	768.
			332'WB'					**333'WB'**				**334'WB'**				**335'WB'**				**336'WB'**				**337'WB'**				**338'**
771.18	771.10	771.01	770.92	770.83	2.0%	770.74	770.65	770.56	770.48	770.39	770.30	770.21	770.12	770.03	769.94	769.84	769.74	769.65	769.55	769.44	769.34	769.23	769.13	769.02	768.91	768.79	768.68	768.
			332'EB'					**333'EB'**				**334'EB'**				**335'EB'**				**336'EB'**				**337'EB'**				**338'**
771.18	771.10	771.01	770.92	770.83	2.0%	770.74	770.65	770.56	770.48	770.39	770.30	770.21	770.12	770.03	769.94	769.84	769.74	769.65	769.55	769.44	769.34	769.23	769.13	769.02	768.91	768.79	768.68	768.
771.42	771.34	771.25	771.16	771.07	2.0%	770.98	770.89	770.80	770.72	770.63	770.54	770.45	770.36	770.27	770.18	770.08	769.98	769.89	769.79	769.68	769.58	769.47	769.37	769.26	769.15	769.03	768.92	768.
771.14	771.06	770.97	770.88	770.79	2.0%	770.70	770.61	770.52	770.44	770.35	770.26	770.17	770.08	769.99	769.90	769.80	769.70	769.61	769.51	769.40	769.30	769.19	769.09	768.98	768.87	768.75	768.64	768.

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES	SHEET 17	E

2

N

STH 15

B-44-296 (EXISTING)

B-44-295 (EXISTING)

R/L STH 15 WB

R/L STH 15 EB

MATCHLINE 338'EB'+01

MATCHLINE 344'EB'+89

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES	SHEET 18	E

FILE NAME : C:\USERS\MUTHCM\DOCUMENTS\11467571-UPDATED\11467571\SHEETSPLAN\11467577\11467577_021201_PG.DWG
LAYOUT NAME - 021213_PG

PLOT DATE : 7/27/2022 1:52 PM PLOT BY : MUTH, CAMERON PLOT NAME : PLOT SCALE : 1:50_XREF

WISDOT/CADDS SHEET 42

2

N

EXISTING B.A.D. 3/4-INCH F.E.

765.12	765.05	764.98	764.90	764.83	764.79	764.76	764.74	764.68	764.67	764.66	764.67	764.68	764.72	764.76	764.79	764.83	764.90	764.98	765.05	765.12	765.23	765.34	765.45	765.56	765.71	765.86	766.
765.40	765.33	765.26	765.18	765.11	765.07	765.04	765.02	764.96	764.95	764.94	764.95	764.96	765.00	765.04	765.07	765.11	765.18	765.26	765.33	765.40	765.51	765.62	765.73	765.84	765.99	766.14	766.
345'WB'				346'WB'				347'WB'				348'WB'				349'WB'				350'WB'				351'WB'			
765.16	765.09	765.02	764.94	764.87	764.83	764.80	764.78	764.72	764.71	764.70	764.71	764.72	764.76	764.80	764.83	764.87	764.94	765.02	765.09	765.16	765.27	765.38	765.49	765.60	765.75	765.90	766.

2.0%

R/L STH 15 WB

STH 15

MEDIAN CROSSING (ASPHALTIC SURFACE)
SEE CONSTRUCTION DETAIL

R/L STH 15 EB

345'EB'				346'EB'				347'EB'				348'EB'				349'EB'				350'EB'				351'EB'			
765.15	765.08	765.01	764.93	764.86	764.82	764.78	764.75	764.71	764.70	764.69	764.70	764.71	764.74	764.78	764.82	764.85	764.92	764.99	765.06	765.14	765.25	765.36	765.47	765.58	765.72	765.87	766.
765.39	765.32	765.25	765.17	765.10	765.06	765.02	764.99	764.95	764.94	764.93	764.94	764.95	764.98	765.02	765.05	765.09	765.16	765.23	765.30	765.38	765.49	765.60	765.71	765.82	765.96	766.11	766.
765.11	765.04	764.97	764.89	764.82	764.78	764.74	764.71	764.67	764.66	764.65	764.66	764.67	764.70	764.74	764.78	764.81	764.88	764.95	765.02	765.10	765.21	765.32	765.43	765.54	765.68	765.83	765.

2.0%

EXISTING B.A.D. 3/4-INCH F.E.

MATCHLINE 344'EB'+89

MATCHLINE 351'EB'+76

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES	SHEET 19	E

2

N

00	766.15	766.33	766.52	2.0%	766.70	766.88	767.10	767.32	767.54	767.76	768.02	768.28	768.53	768.79	769.08	769.37	769.67	769.96	770.27	770.60	770.94	771.28	771.63	771.99	772.36	772.75	773.14	773.54
28	766.43	766.61	766.80	2.0%	766.98	767.16	767.38	767.60	767.82	768.04	768.30	768.56	768.81	769.07	769.36	769.65	769.95	770.24	770.55	770.88	771.22	771.56	771.91	772.27	772.64	773.03	773.42	773.82
	352'WB'					**353'WB'**				**354'WB'**				**355'WB'**				**356'WB'**				**357'WB'**				**358'WB'**		
04	766.19	766.37	766.56		766.74	766.92	767.14	767.36	767.58	767.80	768.06	768.32	768.57	768.83	769.12	769.41	769.71	770.00	770.31	770.64	770.98	771.32	771.67	772.03	772.40	772.79	773.18	773.58

R/L STH 15 WB

STH 15

R/L STH 15 EB

MATCHLINE 351'EB'+76

	352'EB'					**353'EB'**				**354'EB'**				**355'EB'**				**356'EB'**				**357'EB'**				**358'EB'**		
02	766.16	766.34	766.52	2.0%	766.70	766.88	767.10	767.32	767.54	767.76	768.01	768.26	768.52	768.77	769.06	769.35	769.65	769.94	770.26	770.59	770.92	771.25	771.61	771.97	772.34	772.70	773.08	773.47
26	766.40	766.58	766.76	2.0%	766.94	767.12	767.34	767.56	767.78	768.00	768.25	768.50	768.76	769.01	769.30	769.59	769.89	770.18	770.50	770.83	771.16	771.49	771.85	772.21	772.58	772.94	773.32	773.71
98	766.12	766.30	766.48		766.66	766.84	767.06	767.28	767.50	767.72	767.97	768.22	768.48	768.73	769.02	769.31	769.61	769.90	770.22	770.55	770.88	771.21	771.57	771.93	772.30	772.66	773.04	773.43

MATCHLINE 358'EB'+64

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES	SHEET 20	E

2

2

N

STH 15

R/L STH 15 WB

R/L STH 15 EB

MATCHLINE 358'EB'+64

MATCHLINE 365'EB'+51

| | | |

2

N

STH 15

R/L STH 15 WB

R/L STH 15 EB

MATCHLINE 365'EB'+51

MATCHLINE 372'EB'+39

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES	SHEET 22	E

FILE NAME : C:\USERS\MUTHCM\DOCUMENTS\11467571-UPDATED\11467571\SHEETSPLAN\11467577\11467577_021201_PG.DWG
LAYOUT NAME - 021217_PG

PLOT DATE : 7/27/2022 1:57 PM PLOT BY : MUTH, CAMERON PLOT NAME : PLOT SCALE : 1:50_XREF

WISDOT/CADDS SHEET 42

2

N

STA BACK = 374+32.06'WB'
STA AHEAD = 373+97.95'WB'

22'W

10.46		813.28	813.80	3.9%	814.56	3.2%	815.12	2.6%	815.67	1.9%	816.27	1.3%	816.90	0.7%	817.53	0.1%	818.17	0.5%	818.80	1.2%	819.43	1.8%	820.08	2.0%	820.79	821.51	822.23	822.95	823.67	824.38	825.10	825.82	826.54	827.26	827.97	828.
09.72	373'WB'	813.20	814.07	3.9%	814.72	3.2%	815.36	2.6%	816.05	2.0%	816.77	1.3%	817.48	0.7%	818.20	0.1%	818.92	0.5%	819.64	1.2%	820.36	1.8%	821.07	2.0%	821.79	822.51	823.23	823.95	824.66	825.38	826.10	826.82	827.54	828.25	828.	
09.09		812.68	813.65	814.37	815.09	815.81	816.53	817.24	817.96	818.68	819.40	820.12	820.83	821.55	822.27	822.99	823.71	824.42	825.14	825.86	826.58	827.30	828.01	828.												

374'WB' 375'WB' 376'WB' 377'WB' 378'WB' 379'WB'

B-44-292 (EXISTING)

R/L STH 15 WB

STH 15

B-44-291 (EXISTING)

R/L STH 15 EB

		813.27	814.02	2.6%	814.77	2.0%	815.52	1.4%	816.27	0.7%	817.02	0.1%	817.77	0.5%	818.52	1.1%	819.27	1.7%	820.02	2.0%	820.77	821.52	822.27	823.02	823.77	824.52	825.27	826.01	826.74	827.46	828.16	828.
808.77	809.52	810.27																													
808.12	808.87	809.62	812.90	813.67	2.6%	814.49	2.0%	815.32	2.0%	816.14	2.0%	816.97	2.0%	817.79	2.0%	818.62	2.0%	819.44	2.0%	820.26	2.0%	821.01	821.76	822.51	823.26	824.01	824.76	825.51	826.25	826.98	827.70	828.40	829.
807.37	808.12	808.87	813.26	814.17		815.04		815.86		816.69		817.51		818.34		819.16		819.98		820.73	821.48	822.23	822.98	823.73	824.48	825.23	825.97	826.70	827.42	828.12	828.

373'EB' 374'EB' 375'EB' 376'EB' 377'EB' 378'EB' 379'EB'

MATCHLINE 372'EB'+39

MATCHLINE 379'EB'+26

20'W

18'W

Pi: 18+88.28'W

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES	SHEET 23	E

FILE NAME : C:\USERS\MUTHCM\DOCUMENTS\11467571-UPDATED\11467571\SHEETSPLAN\11467577\11467577_021201_PG.DWG
LAYOUT NAME - 021218_PG

PLOT DATE : 7/27/2022 1:58 PM PLOT BY : MUTH, CAMERON PLOT NAME : PLOT SCALE : 1:50_XREF

WISDOT/CADDS SHEET 42

2

N

STH 15

R/L STH 15 WB

R/L STH 15 EB

MATCHLINE 379'EB'+26

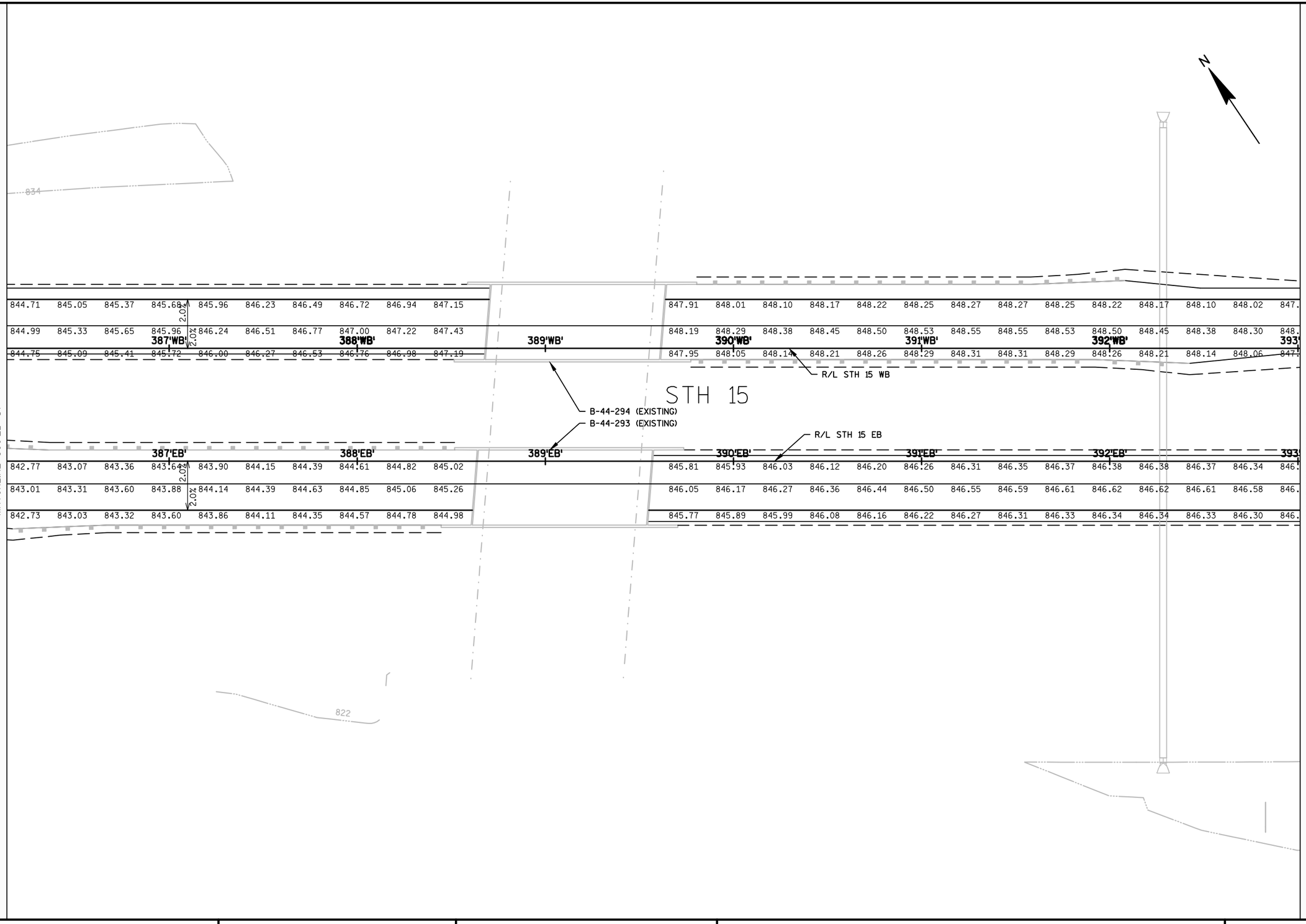
MATCHLINE 386'EB'+14

380'WB'	381'WB'	382'WB'	383'WB'	384'WB'	385'WB'	386'WB'
829.41 830.13 830.85 831.56 832.28 833.00 833.71 834.40 835.08 835.74 836.38 837.00 837.61 838.20 838.78 839.34 839.88 840.40 840.91 841.40 841.87 842.33 842.77 843.19 843.60 843.98 844.36						
829.69 830.41 831.13 831.84 832.56 833.28 833.99 834.68 835.36 836.02 836.66 837.28 837.89 838.48 839.06 839.62 840.16 840.68 841.19 841.68 842.15 842.61 843.05 843.47 843.88 844.26 844.64						
829.45 830.17 830.89 831.60 832.32 833.04 833.75 834.44 835.12 835.78 836.42 837.04 837.65 838.24 838.82 839.38 839.92 840.44 840.95 841.44 841.91 842.37 842.81 843.23 843.64 844.02 844.40						

380'EB'	381'EB'	382'EB'	383'EB'	384'EB'	385'EB'	386'EB'
829.53 830.19 830.84 831.48 832.10 832.71 833.31 833.89 834.46 835.02 835.57 836.10 836.61 837.12 837.61 838.08 838.55 839.00 839.43 839.86 840.27 840.66 841.05 841.42 841.78 842.12 842.45						
829.77 830.43 831.08 831.72 832.34 832.95 833.55 834.13 834.70 835.26 835.81 836.34 836.85 837.36 837.85 838.32 838.79 839.24 839.67 840.10 840.51 840.90 841.29 841.66 842.02 842.36 842.69						
829.49 830.15 830.80 831.44 832.03 832.67 833.27 833.85 834.42 834.98 835.53 836.06 836.57 837.08 837.57 838.04 838.51 838.96 839.39 839.82 840.23 840.62 841.01 841.38 841.74 842.08 842.41						

2.0%

2



PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES	SHEET 25	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467577\11467577_021201_PG.DWG
LAYOUT NAME - 021220_PG
PLOT DATE : 4/3/2017 8:31 AM PLOT BY : SPIELMACHER, JOHN P PLOT NAME : PLOT SCALE : 1:50_XREF
WISDOT/CADDS SHEET 42

2

2

N

92 847.80 847.67 847.52 2.0% 847.35 847.16 846.96 846.74 846.51 846.25 845.98 845.70 845.39 845.07 844.75 844.42 844.09 843.76 843.43 843.10 842.77 842.45 842.12 841.79 841.48 841.19 840.91 840.64

20 848.08 847.95 847.80 2.0% 847.63 847.44 847.24 847.02 846.79 846.53 846.26 845.98 845.67 845.35 845.03 844.70 844.37 844.04 843.71 843.38 843.05 842.73 842.40 842.07 841.76 841.47 841.19 840.92

WB' 394'WB' 395'WB' 396'WB' 397'WB' 398'WB' 399'WB'

96 847.84 847.71 847.56 847.39 847.20 847.00 846.78 846.55 846.29 846.02 845.74 845.43 845.11 844.79 844.46 844.13 843.80 843.47 843.14 842.81 842.49 842.16 841.83 841.52 841.23 840.95 840.68

R/L STH 15 WB

STH 15

R/L STH 15 EB

MATCHLINE 393'EB'+01

EB' 394'EB' 395'EB' 396'EB' 397'EB' 398'EB' 399'EB'

29 846.24 846.17 846.09 2.0% 845.99 845.88 845.76 845.62 845.47 845.31 845.14 844.95 844.74 844.53 844.30 844.06 843.80 843.53 843.25 842.95 842.65 842.33 842.01 841.71 841.41 841.14 840.87 840.63

53 846.48 846.41 846.33 2.0% 846.23 846.12 846.00 845.86 845.71 845.55 845.38 845.19 844.98 844.77 844.54 844.30 844.04 843.77 843.49 843.19 842.89 842.57 842.25 841.95 841.65 841.38 841.11 840.87

25 846.20 846.13 846.05 845.95 845.84 845.72 845.58 845.43 845.27 845.10 844.91 844.70 844.49 844.26 844.02 843.76 843.49 843.21 842.91 842.61 842.29 841.97 841.67 841.37 841.10 840.83 840.59

MATCHLINE 399'EB'+89

808

808

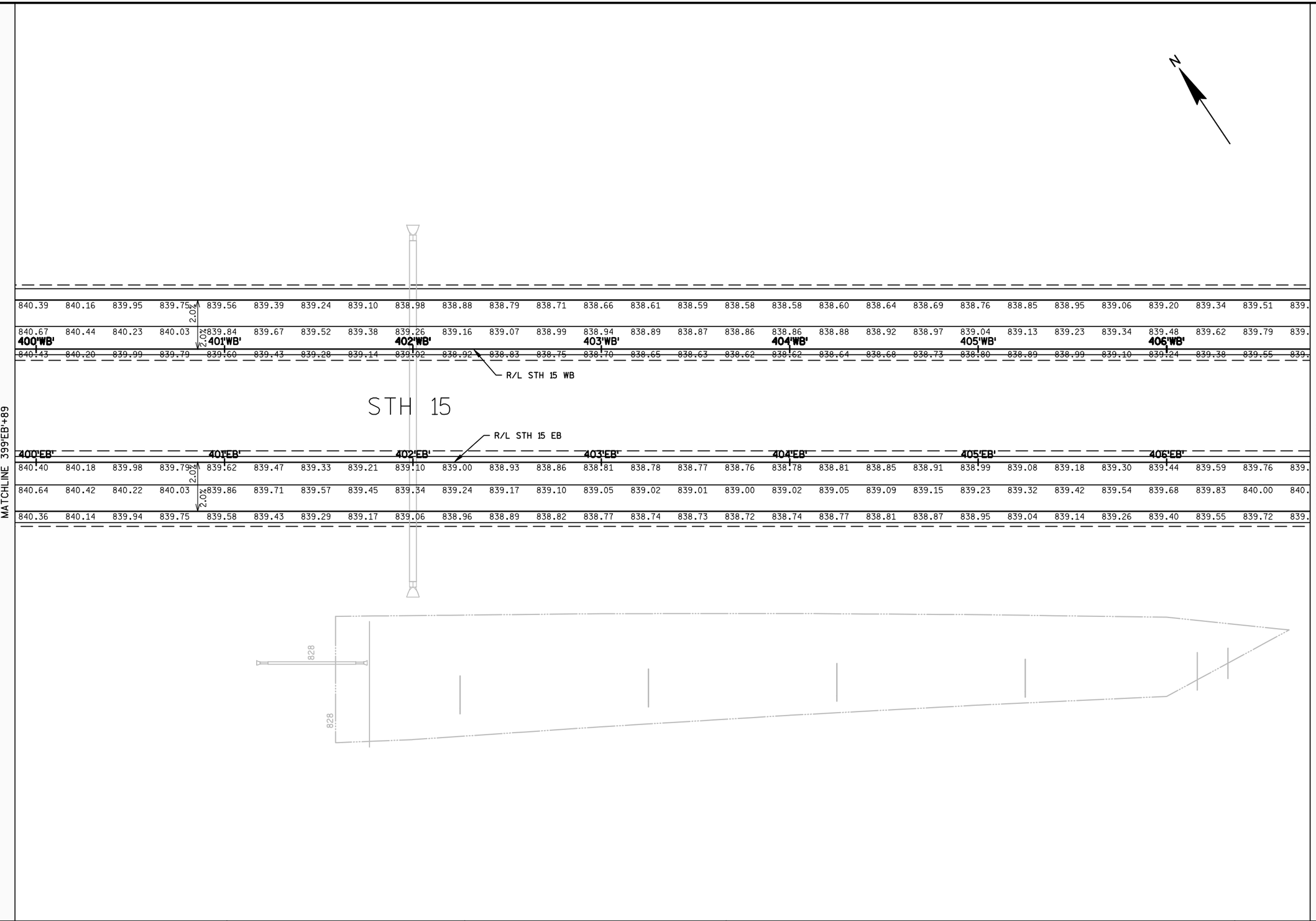
808

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES	SHEET 26	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467577\11467577_021201_PG.DWG
LAYOUT NAME - 021221_PG

PLOT DATE : 4/3/2017 8:31 AM PLOT BY : SPIELMACHER, JOHN P PLOT NAME : PLOT SCALE : 1:50_XREF

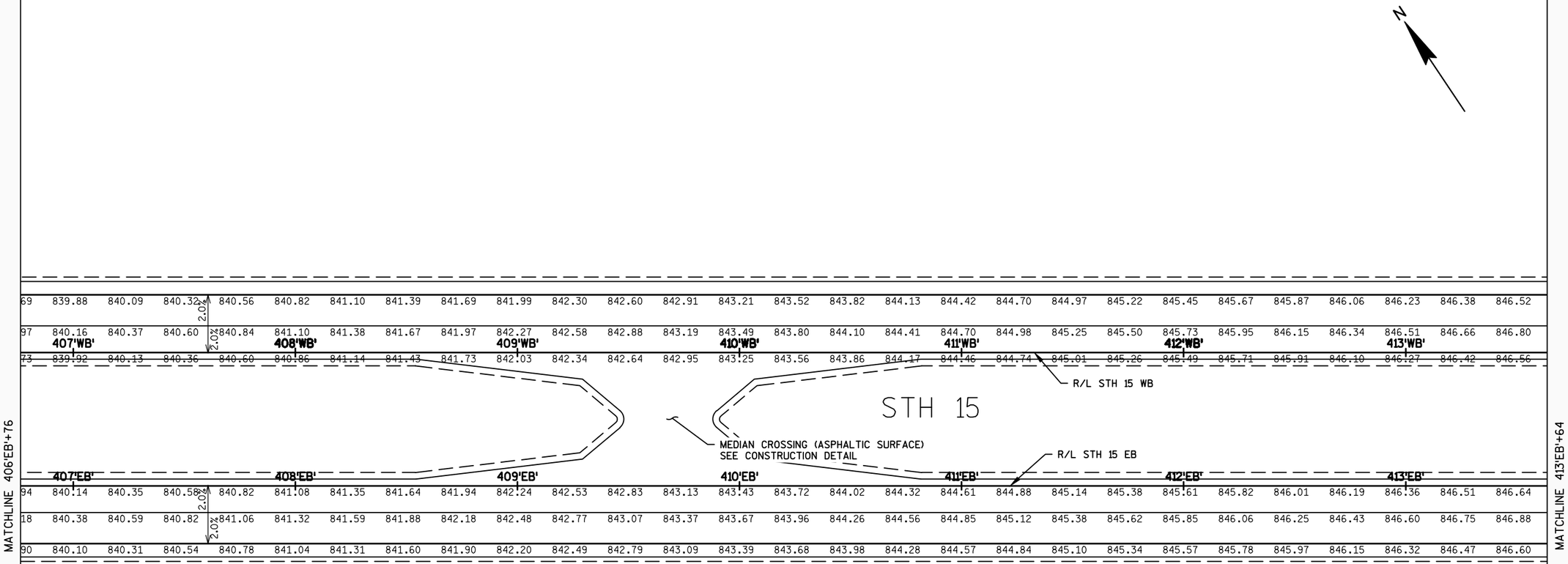
2



PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES	SHEET 27	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467577\11467577_021201_PG.DWG
LAYOUT NAME - 021222_PG
PLOT DATE : 4/3/2017 8:31 AM PLOT BY : SPIELMACHER, JOHN P PLOT NAME : PLOT SCALE : 1:50_XREF
WISDOT/CADDS SHEET 42

2



PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES	SHEET 28	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467577\11467577_021201_PG.DWG
LAYOUT NAME - 021223_PG
PLOT DATE : 4/3/2017 8:31 AM
PLOT BY : SPIELMACHER, JOHN P PLOT NAME :
PLOT SCALE : 1:50_XREF

2

N

MATCHLINE 413'EB'+64

MATCHLINE 420'EB'+51

846.65	846.75	846.85	846.92	2.0%	846.98	847.03	847.06	847.07	847.07	847.05	847.01	846.96	846.90	846.82	846.72	846.61	846.48	846.33	846.17	846.00	845.81	845.60	845.38	845.14	844.88	844.61	844.33	844.
846.93	847.03	847.13	847.20	2.0%	847.26	847.31	847.34	847.35	847.35	847.33	847.29	847.24	847.18	847.10	847.00	846.89	846.76	846.61	846.45	846.28	846.09	845.88	845.66	845.42	845.16	844.89	844.61	844.
	414'WB'					415'WB'				416'WB'				417'WB'				418'WB'				419'WB'				420'WB'		
846.69	846.79	846.89	846.96		847.02	847.07	847.10	847.11	847.11	847.09	847.05	847.00	846.94	846.86	846.76	846.65	846.52	846.37	846.21	846.04	845.85	845.64	845.42	845.18	844.92	844.65	844.37	844.

R/L STH 15 WB

STH 15

R/L STH 15 EB

	414'EB'				415'EB'				416'EB'				417'EB'				418'EB'				419'EB'				420'EB'		
846.76	846.86	846.95	847.02	2.0%	847.08	847.12	847.14	847.15	847.14	847.12	847.08	847.03	846.96	846.88	846.78	846.66	846.53	846.39	846.22	846.05	845.85	845.64	845.42	845.18	844.92	844.65	844.37	844.
847.00	847.10	847.19	847.26	2.0%	847.32	847.36	847.38	847.39	847.38	847.36	847.32	847.27	847.20	847.12	847.02	846.90	846.77	846.63	846.46	846.29	846.09	845.88	845.66	845.42	845.16	844.89	844.61	844.
846.72	846.82	846.91	846.98		847.04	847.08	847.10	847.11	847.10	847.08	847.04	846.99	846.92	846.84	846.74	846.62	846.49	846.35	846.18	846.01	845.81	845.60	845.38	845.14	844.88	844.61	844.33	844.

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES	SHEET 29	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467577\11467577_021201_PG.DWG
LAYOUT NAME - 021224_PG

PLOT DATE : 4/3/2017 8:31 AM PLOT BY : SPIELMACHER, JOHN P PLOT NAME : PLOT SCALE : 1:50_XREF

WISDOT/CADDS SHEET 42

2

N

MATCHLINE 420'EB'+51

MATCHLINE 427'EB'+39

02	843.71	843.38	843.06	842.73	2.0%	842.40	842.08	841.75	841.43	841.10	840.78	840.45	840.13	839.80	839.48	839.15	838.82	838.50	838.17	837.85	837.52	837.20	836.87	836.55	836.22	835.89	835.57	835.26	
30	843.99	843.66	843.34	843.01	2.0%	842.68	842.36	842.03	841.71	841.38	841.06	840.73	840.41	840.08	839.76	839.43	839.10	838.78	838.45	838.13	837.80	837.48	837.15	836.83	836.50	836.17	835.85	835.54	
		421'WB'					422'WB'				423'WB'				424'WB'				425'WB'				426'WB'				427'WB'		
06	843.75	843.42	843.10	842.77		842.44	842.12	841.79	841.47	841.14	840.82	840.49	840.17	839.84	839.52	839.19	838.86	838.54	838.21	837.89	837.56	837.24	836.91	836.59	836.26	835.93	835.61	835.30	

R/L STH 15 WB

STH 15

R/L STH 15 EB

		421'EB'					422'EB'				423'EB'				424'EB'				425'EB'				426'EB'				427'EB'		
06	843.75	843.42	843.10	842.77		842.44	842.12	841.79	841.47	841.14	840.82	840.49	840.17	839.84	839.52	839.19	838.86	838.54	838.21	837.89	837.56	837.24	836.91	836.59	836.26	835.94	835.61	835.30	
30	843.99	843.66	843.34	843.01	2.0%	842.68	842.36	842.03	841.71	841.38	841.06	840.73	840.41	840.08	839.76	839.43	839.10	838.78	838.45	838.13	837.80	837.48	837.15	836.83	836.50	836.18	835.85	835.54	
02	843.71	843.38	843.06	842.73	2.0%	842.40	842.08	841.75	841.43	841.10	840.78	840.45	840.13	839.80	839.48	839.15	838.82	838.50	838.17	837.85	837.52	837.20	836.87	836.55	836.22	835.90	835.57	835.26	

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES	SHEET 30	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467577\11467577_021201_PG.DWG
LAYOUT NAME - 021225_PG

PLOT DATE : 4/3/2017 8:31 AM PLOT BY : SPIELMACHER, JOHN P PLOT NAME : PLOT SCALE : 1:50_XREF

WISDOT/CADDS SHEET 42

2

N

EXISTING B.A.D. 3/4-INCH F.E.

MATCHLINE 427'EB'+39

834.96	834.67	834.39	834.12	2.0%	833.87	833.63	833.40	833.18	832.98	832.78	832.60	832.43	832.28	832.13	832.00	831.88	831.77	831.68	831.59	831.52	831.46	831.41	831.38	831.35	831.34	831.34	831.36	831.		
835.24	834.95	834.67	834.40	2.0%	834.15	833.91	833.68	833.46	833.26	833.06	832.88	832.71	832.56	832.41	832.28	832.16	832.05	831.96	831.87	831.80	831.74	831.69	831.66	831.63	831.62	831.62	831.64	831.		
		428'WB'					429'WB'				430'WB'				431'WB'				432'WB'				433'WB'				434'WB'			
835.00	834.71	834.43	834.16		833.91	833.67	833.44	833.22	833.02	832.82	832.64	832.47	832.32	832.17	832.04	831.92	831.81	831.72	831.63	831.56	831.50	831.45	831.42	831.39	831.38	831.38	831.40	831.		

R/L STH 15 WB

STH 15

R/L STH 15 EB

		428'EB'					429'EB'				430'EB'				431'EB'				432'EB'				433'EB'				434'EB'			
835.00	834.71	834.43	834.16	2.0%	833.91	833.67	833.44	833.22	833.02	832.83	832.64	832.47	832.32	832.17	832.04	831.92	831.81	831.71	831.63	831.56	831.50	831.45	831.41	831.39	831.38	831.38	831.39	831.		
835.24	834.95	834.67	834.40	2.0%	834.15	833.91	833.68	833.46	833.26	833.06	832.88	832.71	832.56	832.41	832.28	832.16	832.05	831.95	831.87	831.80	831.74	831.69	831.65	831.63	831.62	831.62	831.63	831.		
834.96	834.67	834.39	834.12		833.87	833.63	833.40	833.18	832.98	832.79	832.60	832.43	832.28	832.13	832.00	831.88	831.77	831.67	831.59	831.52	831.46	831.41	831.37	831.35	831.34	831.34	831.35	831.		

MATCHLINE 434'EB'+26

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES	SHEET 31	E

2

N

MATCHLINE 434'EB'+26

MATCHLINE 441'EB'+14

38	831.42	831.47	831.53	831.60	2.0%	831.69	831.78	831.89	832.02	832.15	832.29	832.45	832.61	832.77	832.93	833.09	833.24	833.40	833.56	833.72	833.88	834.04	834.19	834.35	834.51	834.67	834.83	834.99	
66	831.70	831.75	831.81	831.88	2.0%	831.97	832.06	832.17	832.30	832.43	832.57	832.73	832.89	833.05	833.21	833.37	833.52	833.68	833.84	834.00	834.16	834.32	834.47	834.63	834.79	834.95	835.11	835.27	
			435'WB'					436'WB'				437'WB'				438'WB'				439'WB'				440'WB'				441'WB'	
42	831.46	831.51	831.57	831.64		831.73	831.82	831.93	832.06	832.19	832.33	832.49	832.65	832.81	832.97	833.13	833.28	833.44	833.60	833.76	833.92	834.08	834.23	834.39	834.55	834.71	834.87	835.03	

R/L STH 15 WB

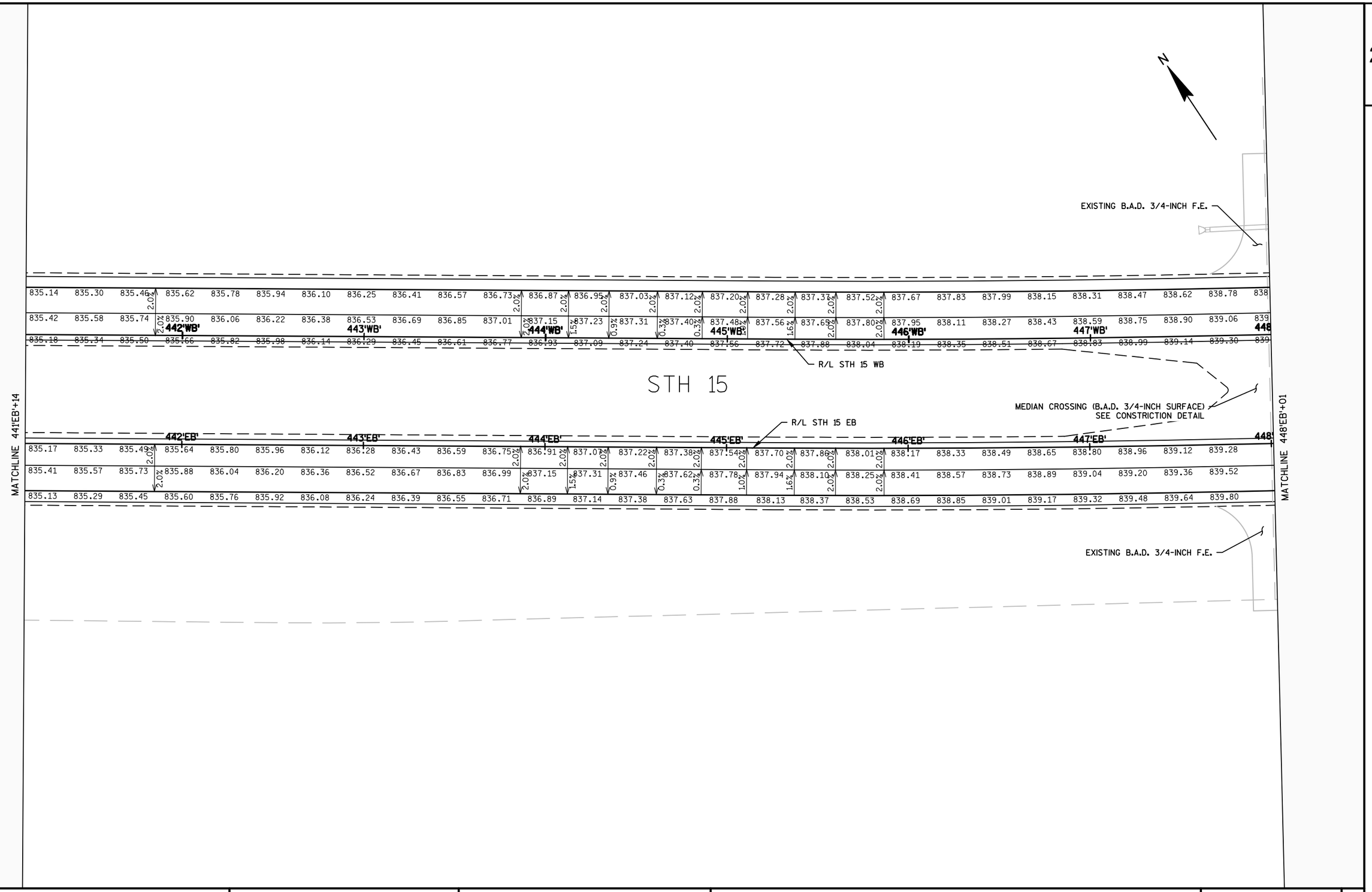
STH 15

R/L STH 15 EB

			435'EB'					436'EB'				437'EB'				438'EB'				439'EB'				440'EB'				441'EB'	
42	831.45	831.50	831.56	831.64	2.0%	831.72	831.82	831.93	832.05	832.18	832.33	832.48	832.64	832.80	832.96	833.12	833.27	833.43	833.59	833.75	833.91	834.06	834.22	834.38	834.54	834.70	834.85	835.01	
66	831.69	831.74	831.80	831.88	2.0%	831.96	832.06	832.17	832.29	832.42	832.57	832.72	832.88	833.04	833.20	833.36	833.51	833.67	833.83	833.99	834.15	834.30	834.46	834.62	834.78	834.94	835.09	835.25	
38	831.41	831.46	831.52	831.60		831.68	831.78	831.89	832.01	832.14	832.29	832.44	832.60	832.76	832.92	833.08	833.23	833.39	833.55	833.71	833.87	834.02	834.18	834.34	834.50	834.66	834.81	834.97	

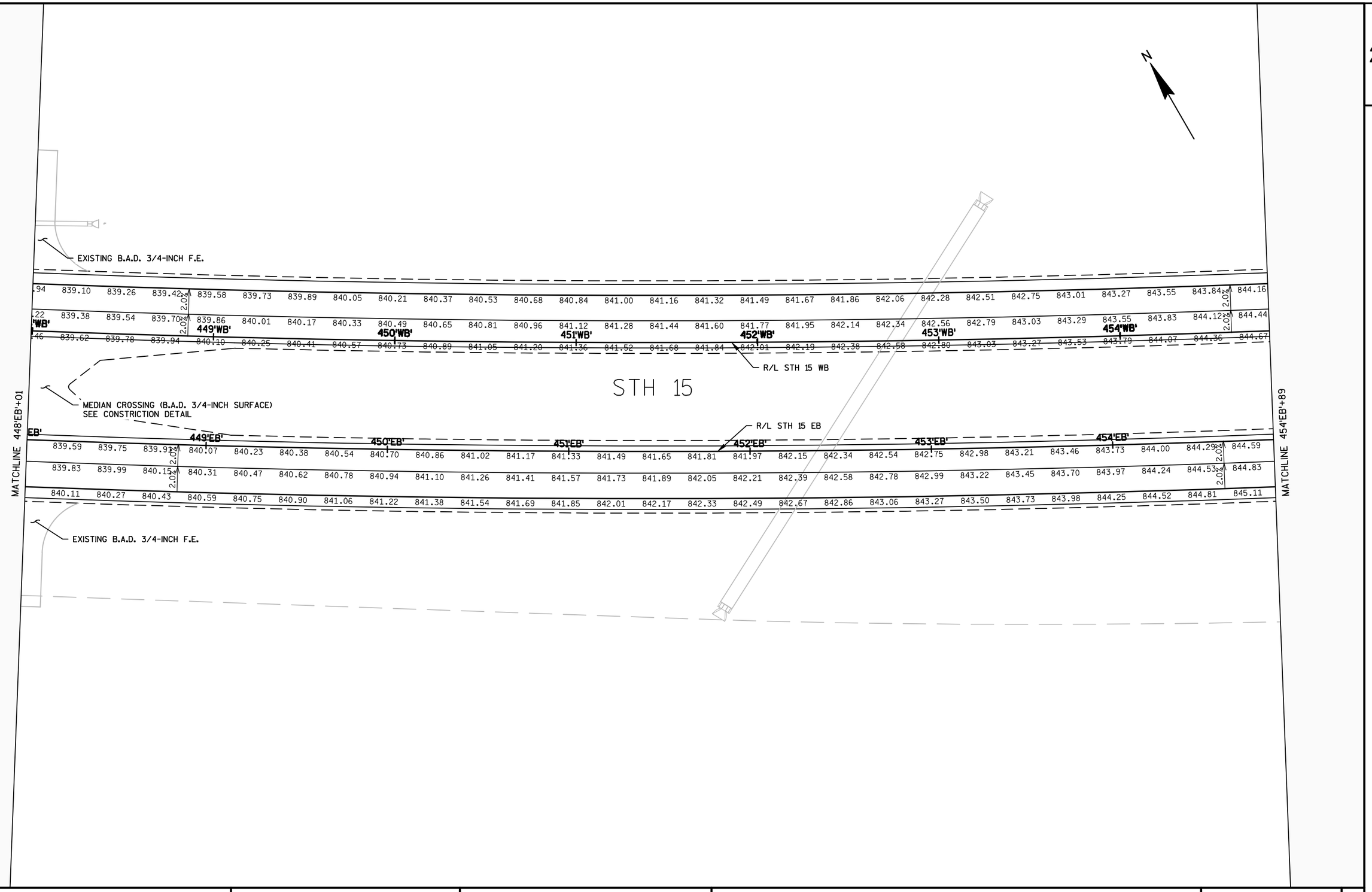
PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES	SHEET 32	E

2



PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES	SHEET 33	E

2



PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES	SHEET 34	E

2

STA BACK = 454+95.89'WB'
STA AHEAD = 455+02.36'WB'

	2.0%	844.85	2.0%	845.26	2.0%	845.69	2.0%	846.12	2.0%	846.57	2.0%	846.99	847.39	847.80	848.22	848.66	849.11	849.57	850.04	850.53	851.02	851.53	852.06	852.59	853.14	2.0%	853.70	854.27	854.85	855.45	856.05	856.68	857.31	857.
1.2%		845.13	0.5%	845.54	0.1%	845.97	0.8%	846.40	1.4%	846.85	2.0%	847.27	847.67	848.08	848.50	848.94	849.39	849.85	850.32	850.81	851.30	851.81	852.34	852.87	853.42	2.0%	853.98	854.55	855.13	855.73	856.33	856.96	857.59	858.
		845.22		845.56		845.91		846.27		846.65		847.03	847.43	847.84	848.26	848.70	849.15	849.61	850.08	850.57	851.06	851.57	852.10	852.63	853.18		853.74	854.31	854.89	855.49	856.09	856.72	857.35	857.

456'WB' 457'WB' 458'WB' 459'WB' 460'WB' 461'WB'

R/L STH 15 WB

STH 15

R/L STH 15 EB

455'EB' 456'EB' 457'EB' 458'EB' 459'EB' 460'EB' 461'EB'

	2.0%	844.90	2.0%	845.23	2.0%	845.56	2.0%	845.91	2.0%	846.27	2.0%	846.65	847.03	847.43	847.84	848.27	848.70	849.15	849.61	850.08	850.57	851.07	851.57	852.10	852.63	853.18	2.0%	853.74	854.31	854.89	855.49	856.09	856.72	857.35	857.
1.1%		845.14	0.5%	845.47	0.1%	845.80	0.8%	846.15	1.4%	846.51	2.0%	846.89	847.27	847.67	848.08	848.51	848.94	849.39	849.85	850.32	850.81	851.31	851.81	852.34	852.87	853.42	2.0%	853.98	854.55	855.13	855.73	856.33	856.96	857.59	858.
		845.34		845.57		845.82		846.09		846.36		846.65	846.99	847.39	847.80	848.23	848.66	849.11	849.57	850.04	850.53	851.03	851.53	852.06	852.59	853.14		853.70	854.27	854.85	855.45	856.05	856.68	857.31	857.

MATCHLINE 454'EB'+89

MATCHLINE 461'EB'+76

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES	SHEET 35	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467577\11467577_021201_PG.DWG
LAYOUT NAME - 021230_PG

PLOT DATE : 4/3/2017 8:31 AM PLOT BY : SPIELMACHER, JOHN P PLOT NAME : PLOT SCALE : 1:50_XREF

WISDOT/CADDS SHEET 42

2

2

N

95 858.61 859.28 859.96 860.66 861.36 862.08 862.82 863.56 864.31 865.06 865.81 866.56 867.31

23 858.89 859.56 860.24 860.94 861.64 862.36 863.10 863.84 864.59 865.34 866.09 866.84 867.59

99 858.65 859.32 860.00 860.70 861.40 862.12 862.86 863.60 864.35 865.10 865.85 866.60 867.35

2.0%

2.0%

462'WB' 463'WB' 464'WB' 465'WB' 466'WB' 467'WB'

R/L STH 15 WB

STH 15

R/L STH 15 EB

462'EB' 463'EB' 464'EB' 465'EB' 466'EB' 467'EB'

99 858.65 859.32 860.00 860.70 861.40 862.12 862.85 863.60 864.35 865.10 865.85 866.60 867.35

23 858.89 859.56 860.24 860.94 861.64 862.36 863.09 863.84 864.59 865.34 866.09 866.84 867.59

95 858.61 859.28 859.96 860.66 861.36 862.08 862.81 863.56 864.31 865.06 865.81 866.56 867.31

2.0%

2.0%

MATCHLINE 461'EB'+76

CONCURRENT BY OTHERS
I.D. 1146-75-78

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES	SHEET 36	E

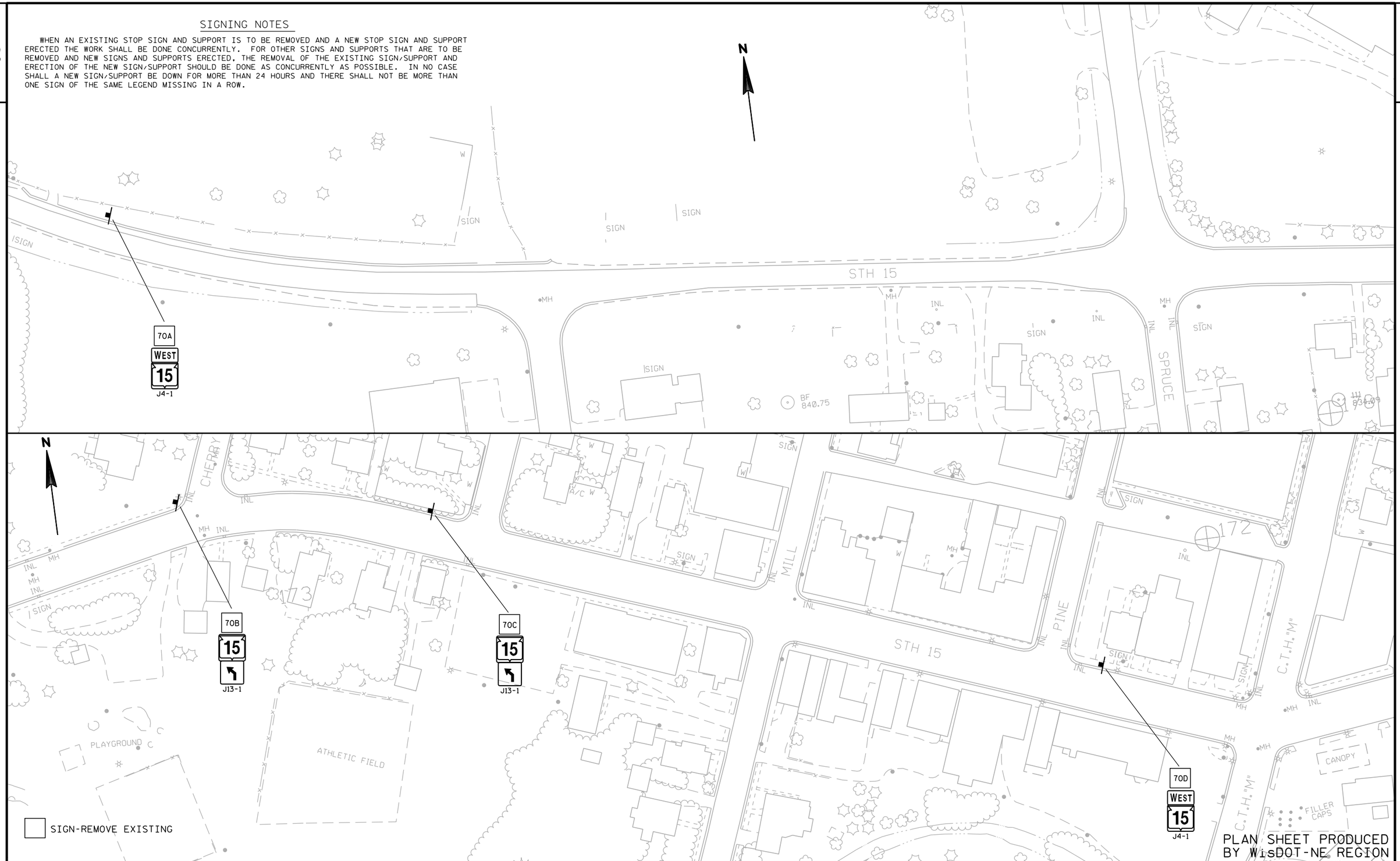
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LAYOUT NAME - 021231_PG

PLOT DATE : 4/3/2017 8:31 AM PLOT BY : SPIELMACHER, JOHN P PLOT NAME : PLOT SCALE : 1:50_XREF

WISDOT/CADDS SHEET 42

SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.



PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	SIGN REMOVALS	SHEET 37 E

FILE NAME : N:\spo\traffic\SIGNING\Projects\1146-75-00 STH 15 Bypass\1146-75-77\023209_ps.dgn PLOT DATE : 10-APR-2017 09:24 PLOT BY : dotets PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.



SIGN-REMOVE EXISTING

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	SIGN REMOVALS	SHEET 38	E

2

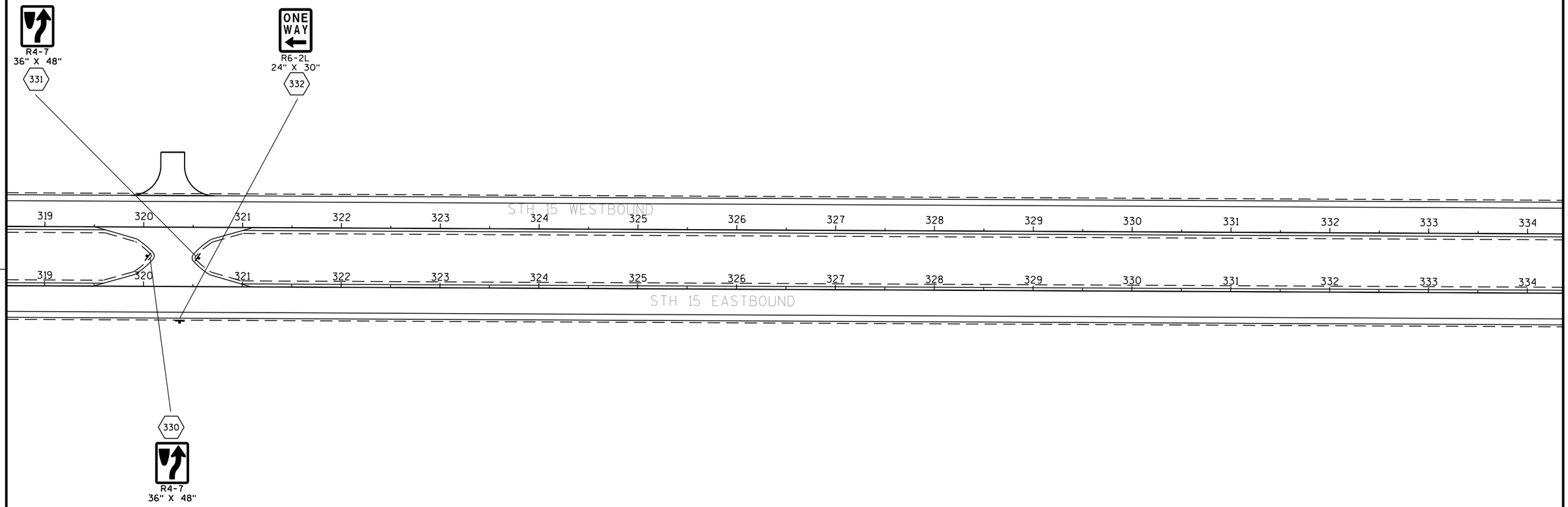
SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

2

N



LEGEND

- WOOD POST WITH SIGN
- STEEL POST AND V-LOCK WITH SIGN
- SIGN-PLACE NEW

PLAN SHEET PRODUCED BY WisDOT-NE REGION

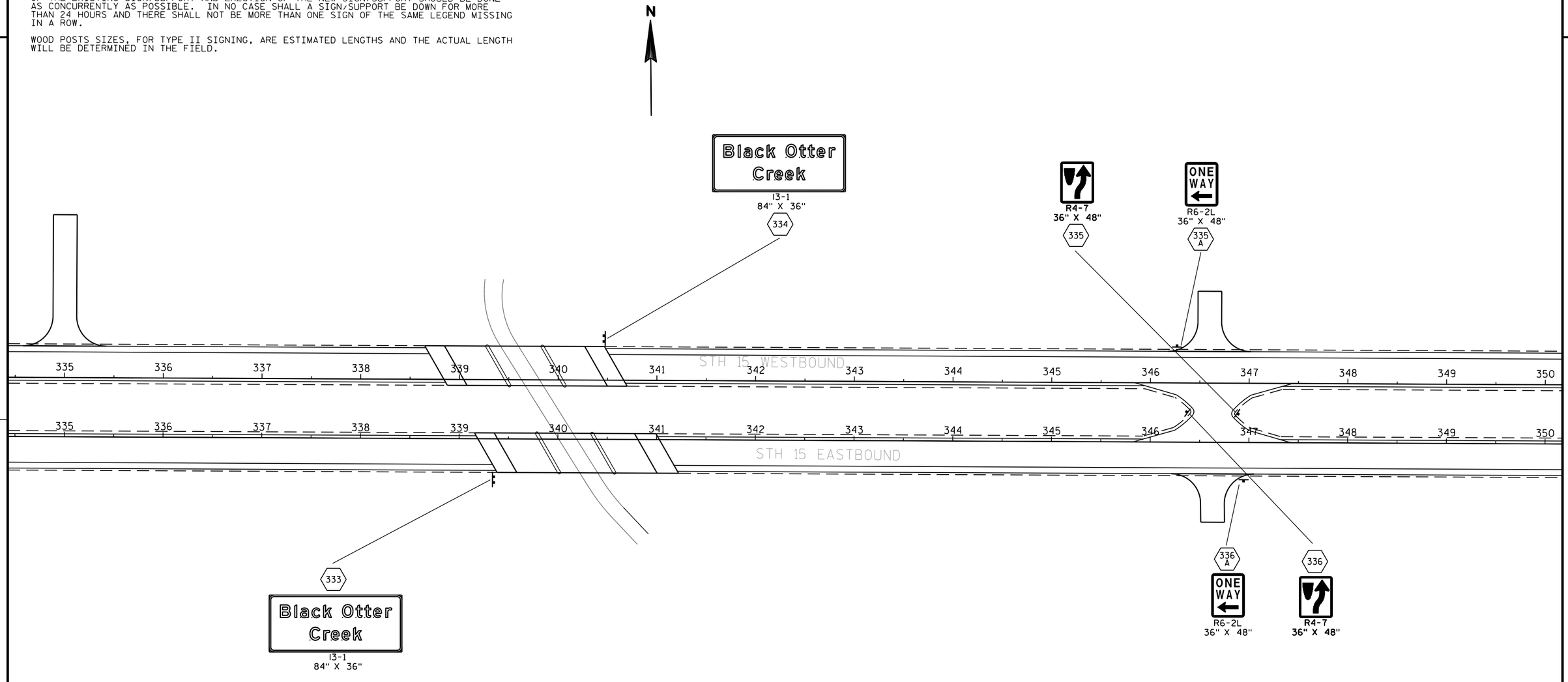
PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PERMANENT SIGNING	SHEET 39	E

2

SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.



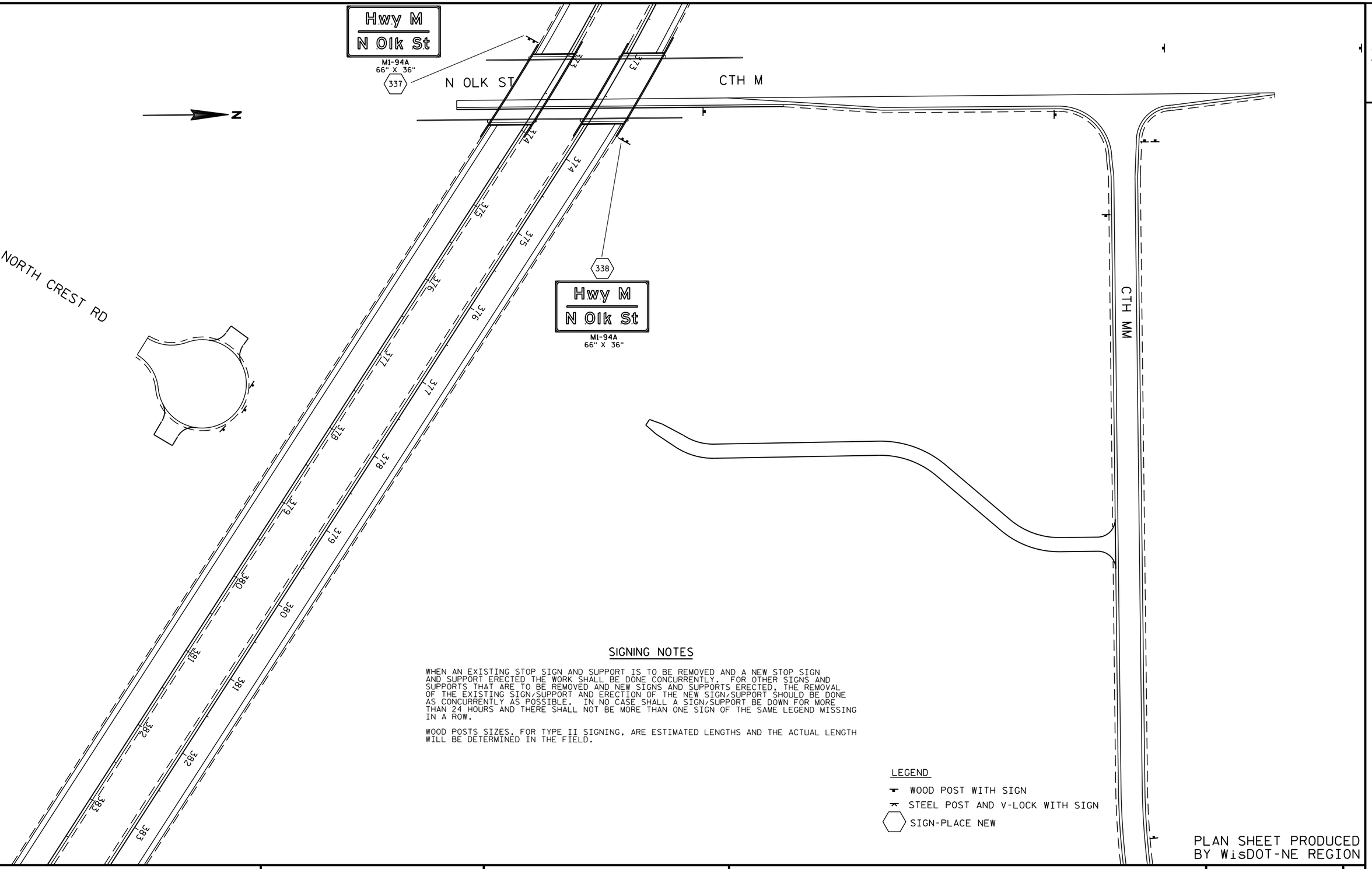
LEGEND

- WOOD POST WITH SIGN
- STEEL POST AND V-LOCK WITH SIGN
- SIGN-PLACE NEW

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PERMANENT SIGNING	SHEET 40	E

2



SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

LEGEND

- WOOD POST WITH SIGN
- STEEL POST AND V-LOCK WITH SIGN
- SIGN-PLACE NEW

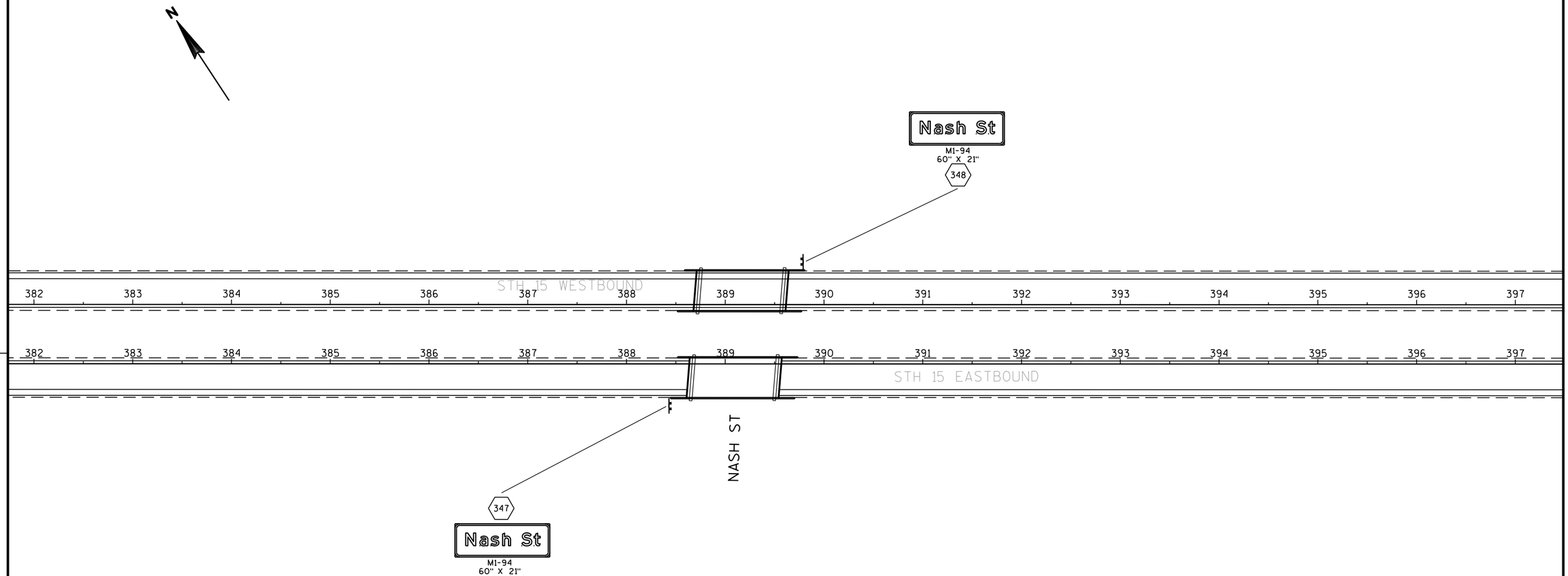
PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PERMANENT SIGNING	SHEET 41	E

SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.



LEGEND

- WOOD POST WITH SIGN
- STEEL POST AND V-LOCK WITH SIGN
- SIGN-PLACE NEW

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PERMANENT SIGNING	SHEET 42	E

2

2

SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

N

R4-7
36" X 48"

350

STH 15 WESTBOUND

398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413

398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413

STH 15 EASTBOUND

349

R4-7
36" X 48"

LEGEND

- WOOD POST WITH SIGN
- STEEL POST AND V-LOCK WITH SIGN
- SIGN-PLACE NEW

PLAN SHEET PRODUCED BY WisDOT-NE REGION

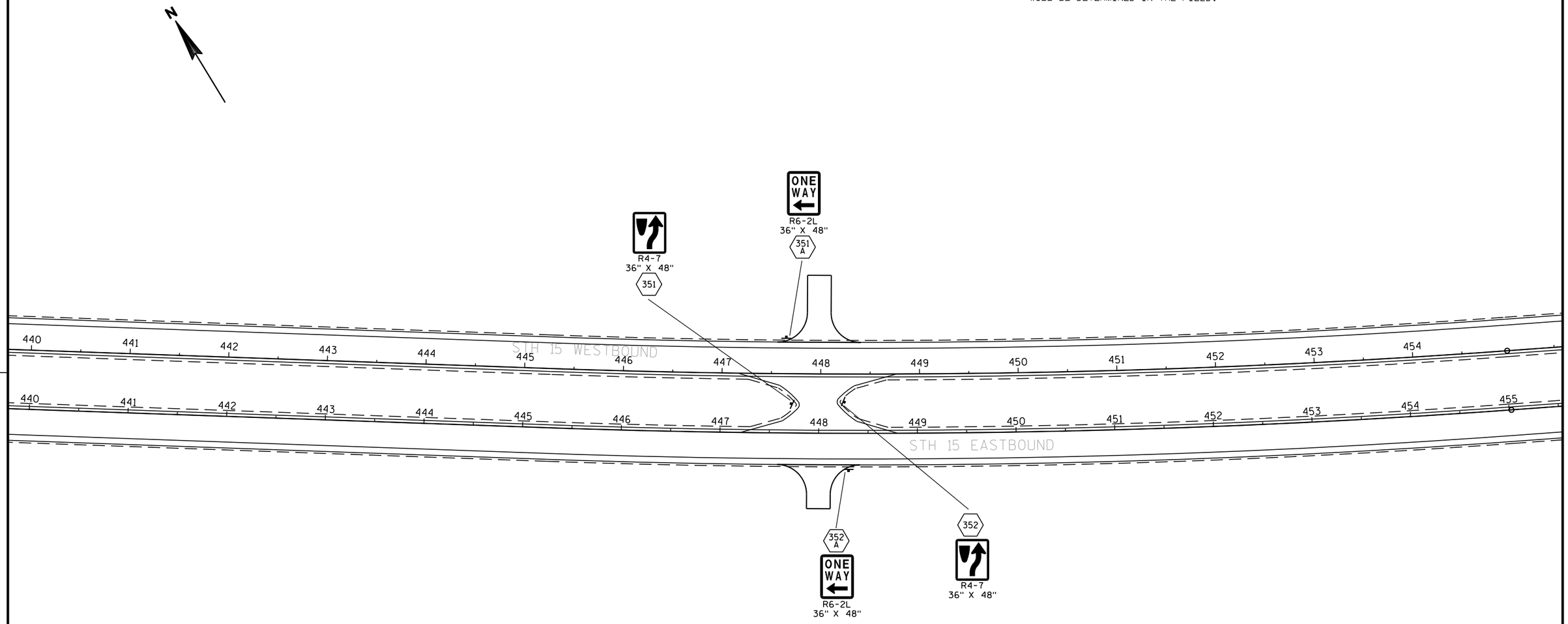
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	PERMANENT SIGNING	SHEET 43	E

2

SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.



LEGEND

- WOOD POST WITH SIGN
- STEEL POST AND V-LOCK WITH SIGN
- SIGN-PLACE NEW

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PERMANENT SIGNING	SHEET 44 E

2

N

BEGIN 'WB' CONSTRUCTION
STA 275'EB'+00
Y=593600.20
X=757782.98

PT: 267'WB'+78.04
PRC: 267'WB'+26.58
PC: 266'WB'80.14
PT: 265'WB'+91.20
PC: 264'WB'27.77
BP: 268'WB'+90.56
PT: 269'WB'+87.08
PC: 271'WB'+21.97
PCC: 272'WB'+26.65
PT: 273'WB'+64.66
PC: 284'WB'+94.49

256'WB' 258'WB' 260'WB' 262'WB' 264'WB' 266'WB' 268'WB' 270'WB' 272'WB' 274'WB' 276'WB' 278'WB' 280'WB' 282'WB' 284'WB' 286'WB' 288

256'EB' 258'EB' 260'EB' 262'EB' 264'EB' 266'EB' 268'EB' 270'EB' 272'EB' 274'EB' 276'EB' 278'EB' 280'EB' 282'EB' 284'EB' 286'EB' 288

12.1°R

1129.83'
S79° 49' 06.99"E

1234.16'
S79° 49' 06.99"E

STH 15

R/L STH 15 WB

R/L STH 15 EB

PT: 256'EB'+92.48
PC: 261'EB'+82.22
PCC: 263'EB'+32.28
PT: 264'EB'+35.47
PC: 265'EB'+70.36
PT: 266'EB'+66.87
PC: 267'EB'+16.28
PT: 268'EB'+31.94
PRC: 267'EB'+87.88
PC: 270'EB'+18.93
PT: 272'EB'+60.33
PC: 284'EB'+94.49

52'0LW'
52'0LE'
54'0LW'
54'0LE'
56'0LW'
56'0LE'
58'0LE'
60'0LE'
62'0LE'
64'0LE'

R/L OLD STH 15 WEST WB
R/L OLD STH 15 WEST EB
OLD STH 15

BEGIN 'EB' CONSTRUCTION
STA 275'EB'+00
Y=593541.15
X=757772.37

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	ALIGNMENT DIAGRAM - STH 15	SHEET 45	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467577\11467577_027201_AD.DWG
LAYOUT NAME - 027201-AD
PLOT DATE : 4/3/2017 8:50 AM
PLOT BY : SPIELMACHER, JOHN P PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

2

CURVE WB-8
PI STA = 292'WB'+94.20
Y = 593283.050
X = 759548.924
DELTA = 8°52'45"
D = 0°33'23"
T = 799.71'
L = 1596.21'
R = 10300.00'
PC STA = 284'WB'+94.49
Y = 593424.410
X = 758761.812
PT STA = 300'WB'+90.70
Y = 593264.876
X = 760348.422
BK = S79°49'07.0"E
AH = S88°41'52.2"E

SUPERELEVATION TABLE (WB-8)			
STATION	LT SLOPE	RT SLOPE	REMARKS
283'WB'+61.16	-2.0%	-2.0%	NORMAL CROWN
284'WB'+41.16	-2.0%	0.0%	ZERO SUPER
285'WB'+21.16	-2.0%	2.0%	FULL SUPER
300'WB'+64.04	-2.0%	2.0%	FULL SUPER
301'WB'+53.34	-2.0%	0.0%	ZERO SUPER
302'WB'+33.34	-2.0%	-2.0%	NORMAL CROWN

N

R/L STH 15 WB

288'WB' 290'WB' 292'WB' CURVE WB-8 294'WB' 296'WB' 298'WB' 300'WB' 302'WB' 304'WB' 306'WB' 308'WB' 310'WB' 312'WB' 314'WB' 316'WB' 318'WB'

PT: 300'WB'+90.70

STA AHEAD: 301'WB'+00.00
STA BACK: 300'WB'+90.70
EQUATION

6138.03'
S88° 41' 52.18"E

STH 15

288'EB' 290'EB' 292'EB' 294'EB' 296'EB' 298'EB' 300'EB' 302'EB' 304'EB' 306'EB' 308'EB' 310'EB' 312'EB' 314'EB' 316'EB' 318'EB'

6138.03'
S88° 41' 52.18"E

R/L STH 15 EB

CURVE EB-8

PT: 301'EB'+00.00

CURVE EB-8
PI STA = 292'EB'+98.86
Y = 593223.171
X = 759542.903
DELTA = 8°52'45"
D = 0°33'11"
T = 804.36'
L = 1605.51'
R = 10360.00'
PC STA = 284'EB'+94.49
Y = 593365.355
X = 758751.206
PT STA = 301'EB'+00.00
Y = 593204.892
X = 760347.059
BK = S79°49'07.0"E
AH = S88°41'52.2"E

SUPERELEVATION TABLE (EB-8)			
STATION	LT SLOPE	RT SLOPE	REMARKS
283'EB'+61.16	-2.0%	-2.0%	NORMAL CROWN
284'EB'+41.16	-2.0%	0.0%	ZERO SUPER
285'EB'+21.16	-2.0%	2.0%	FULL SUPER
300'EB'+73.34	-2.0%	2.0%	FULL SUPER
301'EB'+53.34	-2.0%	0.0%	ZERO SUPER
302'EB'+33.34	-2.0%	-2.0%	NORMAL CROWN

N

R/L STH 15 WB

318'WB' 320'WB' 322'WB' 324'WB' 326'WB' 328'WB' 330'WB' 332'WB' 334'WB' 336'WB' 338'WB' 340'WB' 342'WB' 344'WB' 346'WB' 348'WB'

6138.03'
S88° 41' 52.18"E

318'EB' 320'EB' 322'EB' 324'EB' 326'EB' 328'EB' 330'EB' 332'EB' 334'EB' 336'EB' 338'EB' 340'EB' 342'EB' 344'EB' 346'EB' 348'EB'

STH 15

6138.03'
S88° 41' 52.18"E

R/L STH 15 EB

END 'BOC' ALIGNMENT
STA 4'BOC'+59.14
Y=593279.3125
X=764184.6184

PC: 3'BOC'+90.78

4'BOC'

PT: 2'BOC'+24.89

2'BOC'

PC: 1'BOC'+86.58

BEGIN 'BOC' ALIGNMENT
STA 1'BOC'+50
Y=593013.3761
X=764330.3133

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	ALIGNMENT DIAGRAM - STH 15	SHEET 46	E

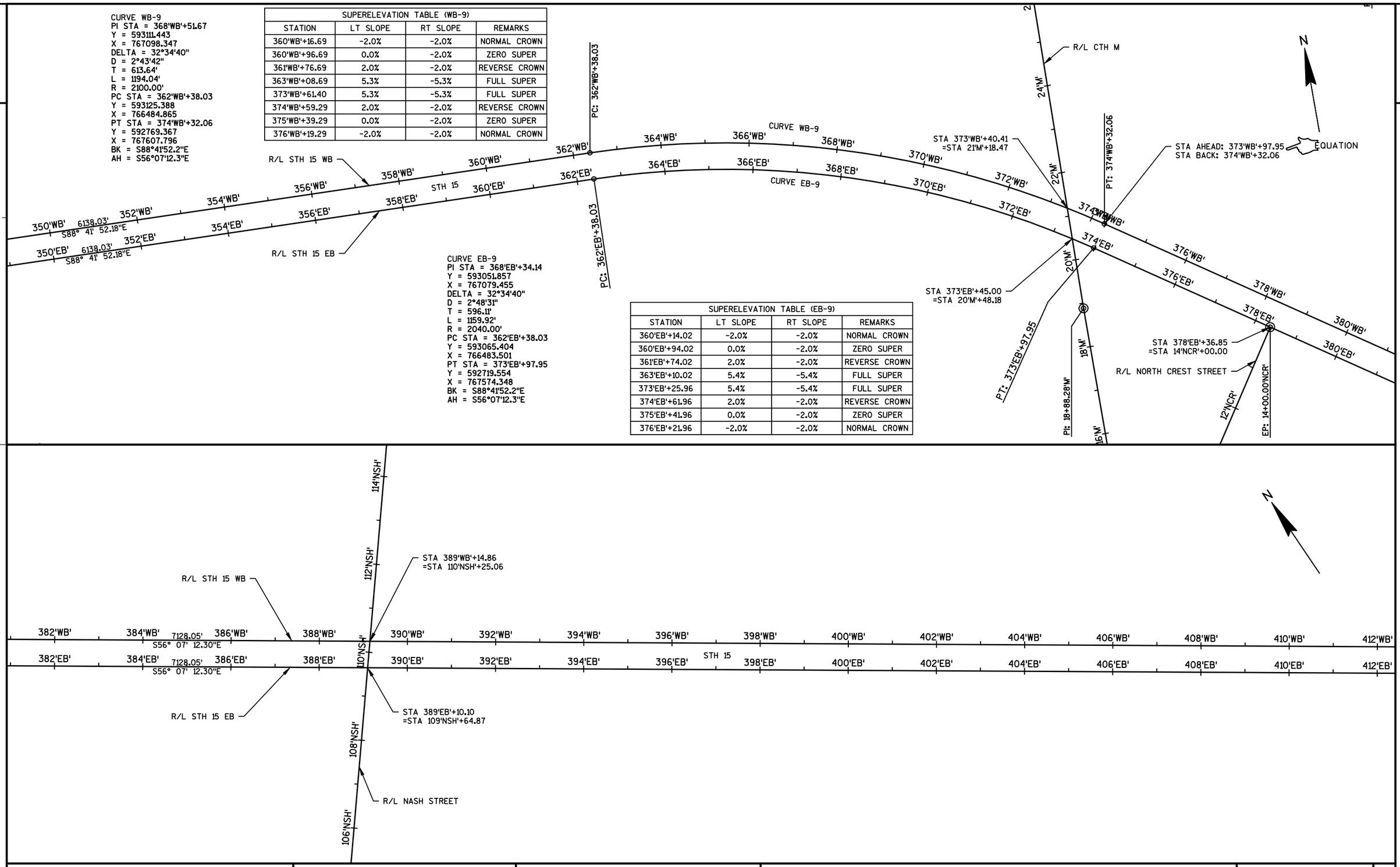
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467577\11467577_027201_AD.DWG
LAYOUT NAME - 027202-AD
PLOT DATE : 4/3/2017 8:50 AM
PLOT BY : SPIELMACHER, JOHN P PLOT NAME :
PLOT SCALE : 1 IN:200 FT

CURVE WB-9
PI STA = 368'WB'+51.67
Y = 593111.443
X = 767098.347
DELTA = 32°34'40"
D = 2°43'42"
T = 613.64'
L = 1194.04'
R = 2100.00'
PC STA = 362'WB'+38.03
Y = 593125.388
X = 766484.865
PT STA = 374'WB'+32.06
Y = 592769.367
X = 767607.796
BK = S88°41'52.2"E
AH = S56°07'12.3"E

SUPERELEVATION TABLE (WB-9)			
STATION	LT SLOPE	RT SLOPE	REMARKS
360'WB'+16.69	-2.0%	-2.0%	NORMAL CROWN
360'WB'+96.69	0.0%	-2.0%	ZERO SUPER
361'WB'+76.69	2.0%	-2.0%	REVERSE CROWN
363'WB'+08.69	5.3%	-5.3%	FULL SUPER
373'WB'+61.40	5.3%	-5.3%	FULL SUPER
374'WB'+59.29	2.0%	-2.0%	REVERSE CROWN
375'WB'+39.29	0.0%	-2.0%	ZERO SUPER
376'WB'+19.29	-2.0%	-2.0%	NORMAL CROWN

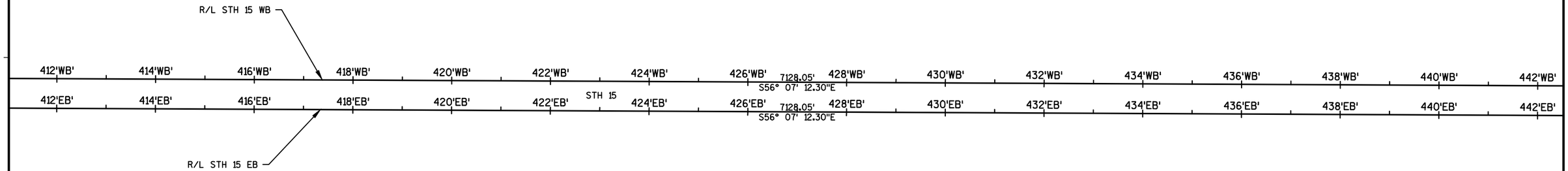
CURVE EB-9
PI STA = 368'EB'+34.14
Y = 593051.857
X = 767079.455
DELTA = 32°34'40"
D = 2°48'31"
T = 596.11'
L = 1159.92'
R = 2040.00'
PC STA = 362'EB'+38.03
Y = 593065.404
X = 766483.501
PT STA = 373'EB'+97.95
Y = 592719.554
X = 767574.348
BK = S88°41'52.2"E
AH = S56°07'12.3"E

SUPERELEVATION TABLE (EB-9)			
STATION	LT SLOPE	RT SLOPE	REMARKS
360'EB'+14.02	-2.0%	-2.0%	NORMAL CROWN
360'EB'+94.02	0.0%	-2.0%	ZERO SUPER
361'EB'+74.02	2.0%	-2.0%	REVERSE CROWN
363'EB'+10.02	5.4%	-5.4%	FULL SUPER
373'EB'+25.96	5.4%	-5.4%	FULL SUPER
374'EB'+61.96	2.0%	-2.0%	REVERSE CROWN
375'EB'+41.96	0.0%	-2.0%	ZERO SUPER
376'EB'+21.96	-2.0%	-2.0%	NORMAL CROWN



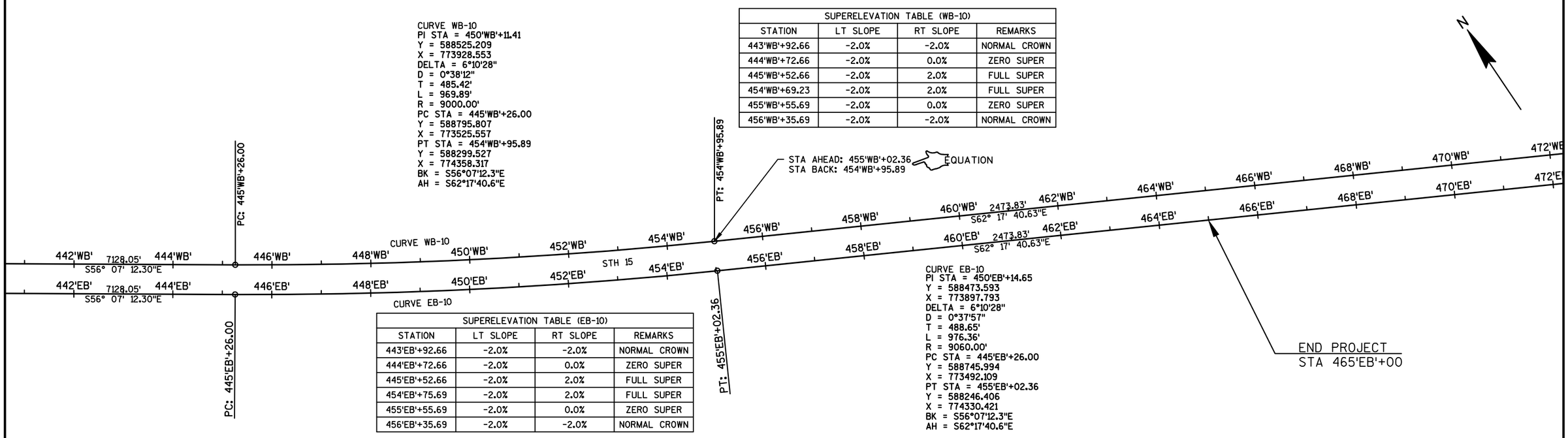
PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	ALIGNMENT DIAGRAM - STH 15	SHEET 47	E

2



CURVE WB-10
PI STA = 450'WB'+11.41
Y = 588525.209
X = 773928.553
DELTA = 6°10'28"
D = 0°38'12"
T = 485.42'
L = 969.89'
R = 9000.00'
PC STA = 445'WB'+26.00
Y = 588795.807
X = 773525.557
PT STA = 454'WB'+95.89
Y = 588299.527
X = 774358.317
BK = S56°07'12.3"E
AH = S62°17'40.6"E

SUPERELEVATION TABLE (WB-10)			
STATION	LT SLOPE	RT SLOPE	REMARKS
443'WB'+92.66	-2.0%	-2.0%	NORMAL CROWN
444'WB'+72.66	-2.0%	0.0%	ZERO SUPER
445'WB'+52.66	-2.0%	2.0%	FULL SUPER
454'WB'+69.23	-2.0%	2.0%	FULL SUPER
455'WB'+55.69	-2.0%	0.0%	ZERO SUPER
456'WB'+35.69	-2.0%	-2.0%	NORMAL CROWN



SUPERELEVATION TABLE (EB-10)			
STATION	LT SLOPE	RT SLOPE	REMARKS
443'EB'+92.66	-2.0%	-2.0%	NORMAL CROWN
444'EB'+72.66	-2.0%	0.0%	ZERO SUPER
445'EB'+52.66	-2.0%	2.0%	FULL SUPER
454'EB'+75.69	-2.0%	2.0%	FULL SUPER
455'EB'+55.69	-2.0%	0.0%	ZERO SUPER
456'EB'+35.69	-2.0%	-2.0%	NORMAL CROWN

CURVE EB-10
PI STA = 450'EB'+14.65
Y = 588473.593
X = 773897.793
DELTA = 6°10'28"
D = 0°37'57"
T = 488.65'
L = 976.36'
R = 9060.00'
PC STA = 445'EB'+26.00
Y = 588745.994
X = 773492.109
PT STA = 455'EB'+02.36
Y = 588246.406
X = 774330.421
BK = S56°07'12.3"E
AH = S62°17'40.6"E

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	ALIGNMENT DIAGRAM - STH 15	SHEET 48	E

1146-75-77

Line	Item	Item Description	Unit	Total	Qty
0024	211.0201	Prepare Foundation for Concrete Pavement (project) 02. 1146-75-77	EACH	1.000	1.000
0028	213.0100	Finishing Roadway (project) 02. 1146-75-77	EACH	1.000	1.000
0032	305.0110	Base Aggregate Dense 3/4-Inch	TON	6,418.000	6,418.000
0034	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	26,930.000	26,930.000
0044	415.0090	Concrete Pavement 9-Inch	SY	106,336.000	106,336.000
0046	415.0410	Concrete Pavement Approach Slab	SY	734.000	734.000
0050	416.1010	Concrete Surface Drains	CY	45.000	45.000
0052	416.1110	Concrete Shoulder Rumble Strips	LF	39,656.000	39,656.000
0054	455.0605	Tack Coat	GAL	1,907.000	1,907.000
0056	460.2000	Incentive Density HMA Pavement	DOL	4,750.000	4,750.000
0060	460.5224	HMA Pavement 4 LT 58-28 S	TON	7,418.000	7,418.000
0062	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	366.000	366.000
0068	465.0400	Asphaltic Shoulder Rumble Strips	LF	40,041.000	40,041.000
0118	601.0588	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT	LF	150.000	150.000
0128	606.0200	Riprap Medium	CY	50.000	50.000
0144	611.0654	Inlet Covers Type V	EACH	5.000	5.000
0148	611.3220	Inlets 2x2-FT	EACH	5.000	5.000
0154	614.2300	MGS Guardrail 3	LF	2,638.000	2,638.000
0156	614.2500	MGS Thrie Beam Transition	LF	551.000	551.000
0158	614.2610	MGS Guardrail Terminal EAT	EACH	16.000	16.000
0160	614.2620	MGS Guardrail Terminal Type 2	EACH	2.000	2.000
0166	618.0100	Maintenance And Repair of Haul Roads (project) 02. 1146-75-77	EACH	1.000	1.000
0168	619.1000	Mobilization	EACH	0.500	0.500
0172	624.0100	Water	MGAL	467.000	467.000
0220	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	9.000	9.000
0222	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	16.000	16.000
0228	637.2210	Signs Type II Reflective H	SF	241.500	241.500
0232	638.2602	Removing Signs Type II	EACH	5.000	5.000
0234	638.3000	Removing Small Sign Supports	EACH	5.000	5.000
0236	642.5401	Field Office Type D	EACH	0.500	0.500
0240	643.0420	Traffic Control Barricades Type III	DAY	116.000	116.000
0242	643.0705	Traffic Control Warning Lights Type A	DAY	78.000	78.000
0246	643.0900	Traffic Control Signs	DAY	116.000	116.000
0248	643.5000	Traffic Control	EACH	0.500	0.500
0252	645.0120	Geotextile Type HR	SY	100.000	100.000
0256	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	76,000.000	76,000.000
0258	646.1545	Marking Line Grooved Wet Ref Contrast Epoxy 4-Inch	LF	9,500.000	9,500.000
0286	650.7000	Construction Staking Concrete Pavement	LF	37,454.000	37,454.000
0294	650.9911	Construction Staking Supplemental Control (project) 02. 1146-75-77	EACH	1.000	1.000
0318	715.0715	Incentive Flexural Strength Concrete Pavement	DOL	31,935.000	31,935.000
0320	740.0440	Incentive IRI Ride	DOL	28,788.000	28,788.000

ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED

Asphalt Summary

Station	to	Station	Location	455.0605 Tack Coat GAL	460.5224 HMA Pavement 4 LT 58-28 S TON	Remarks
275+00	--	278+88	STH 15 EB	19.4	79	
275+00	--	277+07	STH 15 WB	10.4	42	
281+02	--	349+40	STH 15 EB	341.9	1,175	
279+87	--	339+05	STH 15 WB	295.9	1,191	
340+81	--	373+00	STH 15 EB	161.0	648	
340+46	--	372+95	STH 15 WB	162.5	654	
373+93	--	388+64	STH 15 EB	73.6	296	
377+87	--	388+69	STH 15 WB	54.1	298	
389+57	--	465+00	STH 15 EB	377.2	1,518	
389+61	--	465+00	STH 15 WB	377.0	1,517	
319+16	--	321+43	STH EB + WB	11.4	122	Median Crossover
345+46	--	347+74	STH EB + WB	11.4	122	Median Crossover
408+54	--	410+82	STH EB + WB	11.4	122	Median Crossover
			Total	1907	7,784	

Rumble Strips

Station	to	Station	Location	465.0400 Asphaltic Shoulder Rumble Strip L.F.	416.1110 Concrete Shoulder Rumble Stips L.F.	Remarks
275+00	--	276+00	STH 15 WB		100	Outside Shoulder
275+00	--	277+02	STH 15 WB	202		Median Shoulder
275+00	--	277+70	STH 15 EB	270		Median Shoulder
275+00	--	278+71	STH 15 EB		371	Outside Shoulder
279+38	--	338+75	STH 15 WB		5,937	Outside Shoulder
280+40	--	338+98	STH 15 WB	5,858		Median Shoulder
281+06	--	339+25	STH 15 EB	5,819		Median Shoulder
281+98	--	339+48	STH 15 EB		5,750	Outside Shoulder
340+36	--	372+65	STH 15 WB		3,229	Outside Shoulder
340+60	--	372+85	STH 15 WB	3,225		Median Shoulder
340+88	--	372+78	STH 15 EB	3,190		Median Shoulder
341+11	--	373+06	STH 15 EB		3,195	Outside Shoulder
373+83	--	388+59	STH 15 WB		1,476	Outside Shoulder
374+08	--	388+51	STH 15 WB	1,443		Median Shoulder
374+05	--	388+51	STH 15 EB	1,446		Median Shoulder
374+31	--	388+44	STH 15 EB		1,413	Outside Shoulder
373+83	--	465+00	STH 15 WB		9,117	Outside Shoulder
374+08	--	465+00	STH 15 WB	9,092		Median Shoulder
370+04	--	465+00	STH 15 EB	9,496		Median Shoulder
374+32	--	465+00	STH 15 EB		9,068	Outside Shoulder
			Total	40,041	39,656	

Concrete Curb and Gutter

Station	to	Station	Location	601.0588 Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT L.F.	Remarks
276+00 19	--	--	STH 15 WB	30	LT
278+00 19	--	--	STH 15 EB	30	RT
372+50 14	--	--	STH 15 WB	30	RT
372+50 19	--	--	STH 15 EB	30	RT
3722+00 19	--	--	STH 15 EB	30	RT
			Total	150	

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Concrete Summary

Station	to	Station	Location	211.0201 Prepare Foundation for Concrete Pavement (1146-75-77) Each	415.0090 Concrete Pavement 9-Inch S.Y.	415.0410 Concrete Pavement Approach Slab S.Y.	416.1010 Concrete Surface Drains C.Y.	Remarks
275+00	--	--	STH 15 EB				5	LT
275+00	--	278+88	STH 15 EB		1,035			
275+00	--	277+07	STH 15 WB		552		5	RT
276+00	--	--	STH 15 WB					
278+20	--	--	STH 15 EB			58		B-44-289
281+23	--	--	STH 15 EB			62		B-44-289
276+84	--	--	STH 15 WB			62		B-44-290
279+88	--	--	STH 15 WB			64		B-44-290
341+00	--	--	STH 15 WB				10	Includes RT and LT
342+00	--	--	STH 15 EB				10	Includes RT and LT
372+79	--	--	STH 15 EB			64		B-44-291
374+12	--	--	STH 15 EB			62		B-44-291
372+75	--	--	STH 15 WB			58		B-44-292
374+07	--	--	STH 15 WB			60		B-44-292
388+00	--	--	STH 15 EB				5	LT
388+00	--	--	STH 15 WB				5	LT
388+00	--	--	STH 15 WB				5	RT
388+43	--	--	STH 15 EB			58		B-44-293
389+76	--	--	STH 15 EB			64		B-44-293
388+46	--	--	STH 15 WB			62		B-44-294
389+74	--	--	STH 15 WB			60		B-44-294
281+02	--	339+40	STH 15 EB		16,863			
279+87	--	339+05	STH 15 WB		17,098			
340+81	--	373+00	STH 15 EB		9,298			
340+46	--	372+95	STH 15 WB		9,386			
373+93	--	388+64	STH 15 EB		4,252			
373+87	--	388+69	STH 15 WB		4,280			
389+57	--	465+00	STH 15 EB		21,793			
389+61	--	465+00	STH 15 WB		21,779			
			Total	1	106,336	734	45	

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

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Erosion Control

Station	to	Station	Location	606.0200 Riprap Medium CY	611.0654 Inlet Covers Type V Each	611.3220 Inlets 2x2-FT Each	645.0120 Geotextile Fabric Type HR SY	Remarks
276+00 19	--	--	STH 15 WB	10	1	1	20	LT
278+00 19	--	--	STH 15 EB	10	1	1	20	RT
372+50 14	--	--	STH 15 WB	10	1	1	20	RT
372+50 19	--	--	STH 15 EB	10	1	1	20	RT
388+00 19	--	--	STH 15 EB	10	1	1	20	RT
			Total	50	5	5	100	

Traffic Control

Location	643.0420 Traffic Control Barricades Type III Each	Days	643.0705 Traffic Control Warning Lights Type A Each	Days	643.0900 Traffic Control Signs Each	Days	Remarks
Project 1146-75-77 (+/- 31 days)							
Entrance from Haul Road	3	93	2	62	3	93	
UNDISTRIBUTED		23		16		23	
Total		116		78		116	

618.0100
Maintenance and Repair
Of Haul Roads

Project	Each	Remarks
1146-75-77	1	
Total	1	

619.1000
Mobilization

Project	Each	Remarks
1146-75-77	0.5	
Total	0.5	

Pavement Marking Summary

Station	to	Station	Location	646.1040 Marking Line Grooved Wet Ref Epoxy 4-Inch White L.F.	646.1040 Marking Line Grooved Wet Ref Epoxy 4-Inch Yellow L.F.	646.1545 Marking Line Grooved Wet Ref Contrast Epoxy 4 - Inch 4-Inch L.F.	Remarks
275+00	--	278+88	STH 15 EB	388	388	97	
275+00	--	277+07	STH 15 WB	207	207	52	
278+88	--	281+02	WCL RR Bridge EB	214	214	54	
277+07	--	279+87	WCL RR Bridge WB	280	280	70	
281+02	--	339+40	STH 15 EB	5,838	5,838	1,460	
279+87	--	339+05	STH 15 WB	5,918	5,918	1,480	
339+40	--	340+81	B.O.C. Bridge EB	141	141	35	
339+05	--	340+46	B.O.C. Bridge WB	141	141	35	
340+81	--	373+00	STH 15 EB	3,219	3,219	805	
340+46	--	372+95	STH 15 WB	3,249	3,249	812	
373+00	--	373+93	CTH M Bridge EB	93	93	23	
372+95	--	377+87	CTH M Bridge WB	492	492	123	
373+93	--	388+64	STH 15 EB	1,471	1,471	368	
377+87	--	388+69	STH 15 WB	1,082	1,082	271	
388+64	--	389+57	Nash St. Bridge EB	93	93	23	
388+69	--	389+61	Nash St. Bridge WB	92	92	23	
389+57	--	465+00	STH 15 EB	7,543	7,543	1,886	
389+61	--	465+00	STH 15 WB	7,539	7,539	1,885	
			Subtotal	38,000	38,000		
			Total	76,000		9,500	

642.5401
Field Office
Type D

Project	Each	Remarks
1146-75-77	0.5	
Total	0.5	

643.0100
Traffic Control
(Project)

Project	Each	Remarks
1146-75-77	0.5	
Total	0.5	

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

3

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Guardrail Summary

Station	to	Station	Location	614.2300 MGS Guardrail 3 L.F.	614.2500 MGS Thrie Beam Transition L.F.	614.2610 MGS Guardrail Terminal EAT Each	614.2620 MGS Guardrail Terminal EAT Type 2 Each	Remarks
279+37.92	--	279+77.3	STH 15 WB		39			LT
279+77.3	--	281+14.8	STH 15 WB	138				LT
281+14.8	--	281+67.92	STH 15 WB			1		LT
280+39.7	--	280+79.08	STH 15 WB		39			RT
280+79.08	--	282+54.08	STH 15 WB	175				RT
282+54.08	--	283+07.2	STH 15 WB			1		RT
306+96.35	--	307+49.48	STH 15 EB			1		RT
307+49.48	--	309+11.98	STH 15 EB	163			1	RT
308+88.03	--	310+50.53	STH 15 WB	163			1	RT
310+50.53	--	311+03.65	STH 15 WB			1		RT
336+58.38	--	337+11.51	STH 15 EB			1		LT
337+11.51	--	338+86.51	STH 15 EB	175				LT
338+86.51	--	339+25.88	STH 15 EB		39			LT
337+18.97	--	337+72.1	STH 15 EB			1		RT
337+72.1	--	339+09.6	STH 15 EB	138				RT
339+09.6	--	339+48.97	STH 15 EB		39			RT
340+59.51	--	340+98.89	STH 15 WB		39			RT
340+98.89	--	342+73.89	STH 15 WB	175				RT
342+73.89	--	343+27.01	STH 15 WB			1		RT
340+36.42	--	340+75.8	STH 15 WB		39			LT
340+75.8	--	342+13.3	STH 15 WB	138				LT
342+13.3	--	342+66.42	STH 15 WB			1		LT
368+86.48	--	369+39.61	STH 15 EB			1		LT
369+39.61	--	372+39.61	STH 15 EB	300				LT
372+39.61	--	372+78.98	STH 15 EB		39			LT
370+76.81	--	371+29.94	STH 15 EB			1		RT
371+29.94	--	372+67.44	STH 15 EB	138				RT
372+67.44	--	373+06.81	STH 15 EB		39			RT
373+82.56	--	374+21.94	STH 15 WB		39			LT
374+21.94	--	375+24.56	STH 15 WB	138				LT
375+24.56	--	375+77.69	STH 15 WB			1		LT
374+07.68	--	374+12.94	STH 15 WB		39			RT
374+12.94	--	375+87.94	STH 15 WB	175				RT
375+87.94	--	376+41.07	STH 15 WB			1		RT
385+84.21	--	386+37.34	STH 15 EB			1		LT
386+37.34	--	388+12.34	STH 15 EB	175				LT
388+12.34	--	388+51.71	STH 15 EB		39			LT
386+14.54	--	386+67.67	STH 15 EB			1		RT
386+67.67	--	388+05.17	STH 15 EB	138				RT
388+05.17	--	388+44.54	STH 15 EB		39			RT
389+80.52	--	390+19.9	STH 15 WB		39			LT
390+19.9	--	391+94.9	STH 15 WB	175				LT
391+94.9	--	392+48.02	STH 15 WB			1		LT
389+77.35	--	390+16.73	STH 15 WB		39			RT
390+16.73	--	391+54.23	STH 15 WB	138				RT
391+54.23	--	392+07.35	STH 15 WB			1		RT
			Total	2,638	551	16	2	

Crushed Aggregate Base Course

Station	to	Station	Location	305.0110 Base Aggregate Dense 3/4-Inch Ton	305.0120 Base Aggregate Dense 1 1/4- Inch Ton	624.0100 Water Compaction Mgal	624.0100 Water Dust Control Mgal	Remarks
275+00	--	278+88	STH 15 EB	83	639	7	3	
275+00	--	277+07	STH 15 WB	54	508	6	2	
319+16	--	321+43	STH 15 EB + WB	30	122	2	1	Median Crossover
281+02	--	339+40	STH 15 EB	924	3,866	48	19	
279+86	--	339+05	STH 15 WB	937	3,920	49	19	
345+46	--	347+74	STH 15 EB + WB	30	122	2	1	Median Crossover
340+80	--	372+99	STH 15 EB	509	2,132	26	11	
340+46	--	372+95	STH 15 WB	514	2,152	27	11	
373+92	--	388+64	STH 15 EB	233	975	12	5	
373+87	--	388+69	STH 15 WB	235	981	12	5	
408+54	--	410+82	STH 15 EB + WB	30	122	2	1	Median Crossover
446+86	--	449+14	STH 15 EB + WB	147	122	3	1	Snowmobile Crossover
389+56	--	465+00	STH 15 EB	1,193	4,996	62	25	
389+61	--	465+00	STH 15 WB	1,193	4,993	62	25	
--	--	--	Undistributed	306	1,282	16	6	
					Subtotal	333	133	
			Total	6,418	26,930	467		

Station	to	Station	Location	650.7000 Construction Staking Concrete Pavment L.F.	650.9911 Construction Staking Supplemental Control (1146-75-77) Each	Remarks
275+00	--	278+88	STH 15 EB	388		
275+00	--	277+07	STH 15 WB	207		
281+02	--	349+40	STH 15 EB	6,838		
279+87	--	339+05	STH 15 WB	5,918		
340+81	--	373+00	STH 15 EB	3,219		
340+46	--	372+95	STH 15 WB	3,249		
373+93	--	388+64	STH 15 EB	1,471		
377+87	--	388+69	STH 15 WB	1,082		
389+57	--	465+00	STH 15 EB	7,543		
389+61	--	465+00	STH 15 WB	7,539		
			Total	37,454	1	

3

3

REMOVING TYPE II SIGNS AND REMOVING SMALL SIGN SUPPORTS

SIGN NO.	LOCATION	SIGN CODE	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH
70A	OLD STH 15, W. OF CTH M	J4-1	1	1
70B	"	J13-1	1	1
70C	"	J13-1	1	1
70D	"	J4-1	1	1
70E	OLD STH 15, E. OF CTH M	J4-1	1	1
PROJECT TOTALS			**5**	**5**

ERECTION OF TYPE II SIGNS AND SUPPORTS

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE H S.F.	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	REMARKS
330	STH 15, E. OF CTH T/OLD STH 15 RAB	R4-7	36" X 48"	12.00		1	
331	"	R4-7	36" X 48"	12.00		1	
332	"	R6-2L	24" X 30"	5.00	1		
333	STH 15, W. OF CTH M OVERPASS	I3-1	84" X 36"	21.00	2		BLACK OTTER CREEK, SEE SIGN DETAIL SHEET
334	"	I3-1	84" X 36"	21.00	2		BLACK OTTER CREEK, SEE SIGN DETAIL SHEET
335	"	R4-7	36" X 48"	12.00		1	
335A	"	R6-2L	36" X 48"	12.00		1	
336	"	R4-7	36" X 48"	12.00		1	
336A	"	R6-2L	36" X 48"	12.00		1	
337	STH 15, AT CTH M OVERPASS	M1-94A	66" X 36"	16.50		2	CTH M - N OLK ST, SEE SIGN DETAIL SHEET
338	"	M1-94A	66" X 36"	16.50		2	CTH M - N OLK ST, SEE SIGN DETAIL SHEET
347	STH 15, AT NASH ST OVERPASS	M1-94	60" X 21"	8.75	2		NASH ST, SEE SIGN DETAIL SHEET
348	"	M1-94	60" X 21"	8.75	2		NASH ST, SEE SIGN DETAIL SHEET
349	STH 15, W. OF CTH JJ/OLD STH 15 RAB	R4-7	36" X 48"	12.00		1	
350	"	R4-7	36" X 48"	12.00		1	
351	"	R4-7	36" X 48"	12.00		1	
351A	"	R6-2L	36" X 48"	12.00		1	
352	"	R4-7	36" X 48"	12.00		1	
352A	"	R6-2L	36" X 48"	12.00		1	
PROJECT TOTALS				**241.50**	**9**	**16**	

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 ACRES REQUIRED NEW	R/W ACRES REQUIRED EXISTING	R/W ACRES REQUIRED TOTAL	H.E. ACRES PERM.	PLE ACRES PERM.	TLE ACRES TEMP.
58	WISCONSIN CENTRAL, LTD.	HIGHWAY EASEMENT	0	0	0	0.756	0	0
59	KEVIN SAMBS & JANE SAMBS	FEE	12.190	0	12.190	0	0	0
261	KEVIN SAMBS & JANE SAMBS	PLE	0	0	0	0	0.717	0

UTILITY INTERESTS REQUIRED:

922	AT&T WISCONSIN	RELEASE OF RIGHTS

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.22 AMENDMENT NO: 2

ADDS PARCEL 261 TO TRANSPORTATION PROJECT PLAT 1146-75-22-4.22, RECORDED AS DOCUMENT #2087966.
PART OF THE SE1/4-SW1/4 OF SECTION 27, T22N, R15E, TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

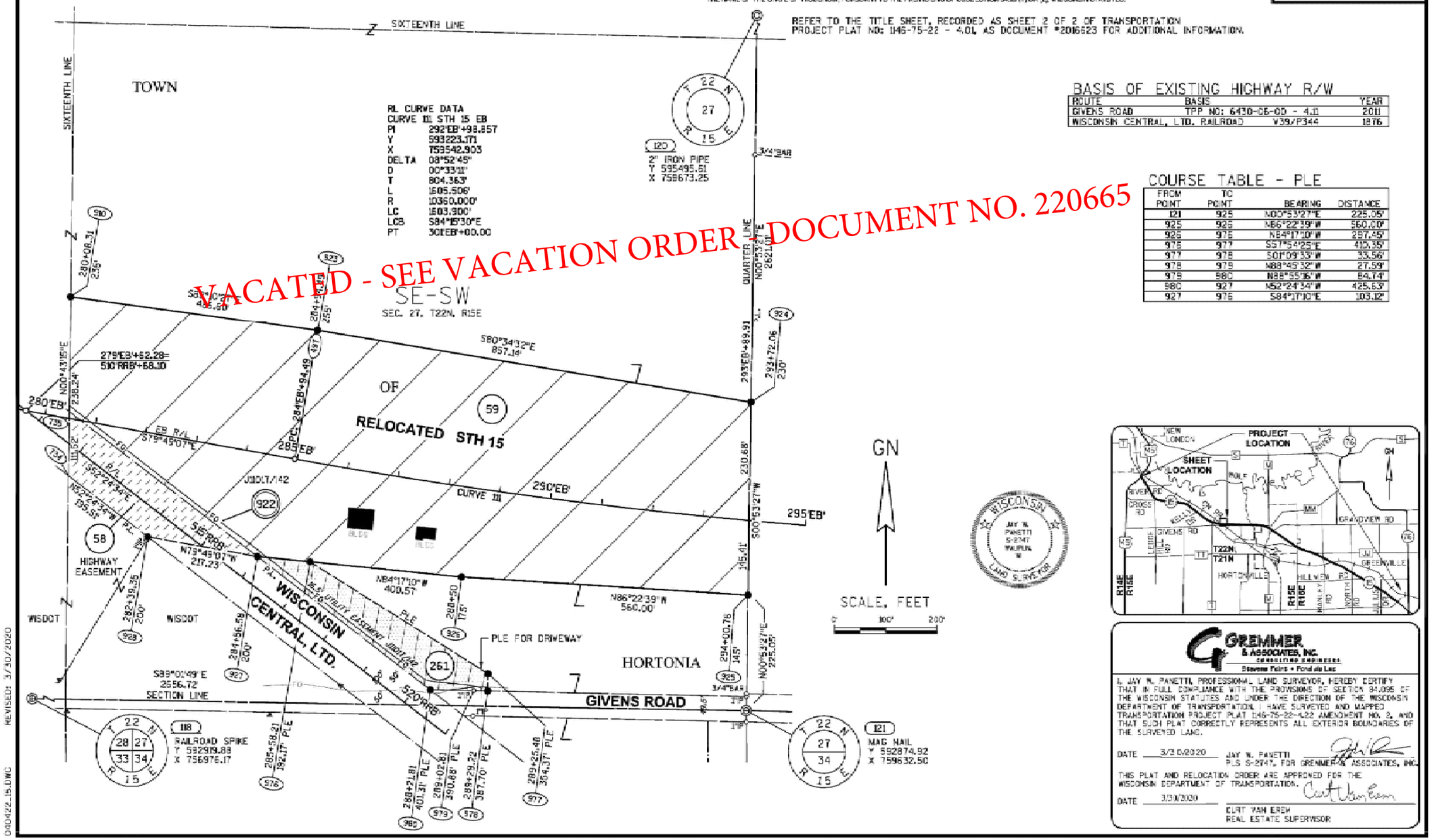
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.09 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1) THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

Document #: 2187877
Date: 02-26-2020 Time: 1:47 PM
Pages: 1 Fee: $25.00
County: OUTAGAMIE COUNTY State: WI

Garrett A. VanEmon
SUBMITTED FOR COUNTY REGISTER OF DEEDS
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WisDOT - NE Region - Green Bay - PO Box 000-0000

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22 - 4.22
AMENDMENT NO: 2

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016523 FOR ADDITIONAL INFORMATION.



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.22 AMENDMENT NO. 2, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 3/3 0/2020 JAY W. PANETTI PLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 3/30/2020 CURT VAN EMON REAL ESTATE SUPERVISOR

WISCONSIN JAY W. PANETTI S-2747 WAUPUN LAND SURVEYOR

VACATED - SEE VACATION ORDER DOCUMENT NO. 220665

D:\0422-15.DWG REVISED: 3/30/2020

APPRAISAL PLAT DATE: 3/3/2020

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 ACRES REQUIRED NEW	EXISTING	TOTAL	H.E. ACRES PERM.	TLE ACRES TEMP.
58	WISCONSIN CENTRAL, LTD.	HIGHWAY EASEMENT	0	0	0	0.756	0
59	KEVIN SAMBS & JANE SAMBS	FEE	12.190	0	12.190	0	0

UTILITY INTERESTS REQUIRED:

922	AT&T WISCONSIN	RELEASE OF RIGHTS

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.22 AMENDMENT NO: 1

ADDS STRUCTURES TO BE REMOVED FROM PARCEL 59 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.22, RECORDED AS DOCUMENT #2037966.
PART OF THE SE1/4-SW1/4 OF SECTION 27, T22N, R15E, TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

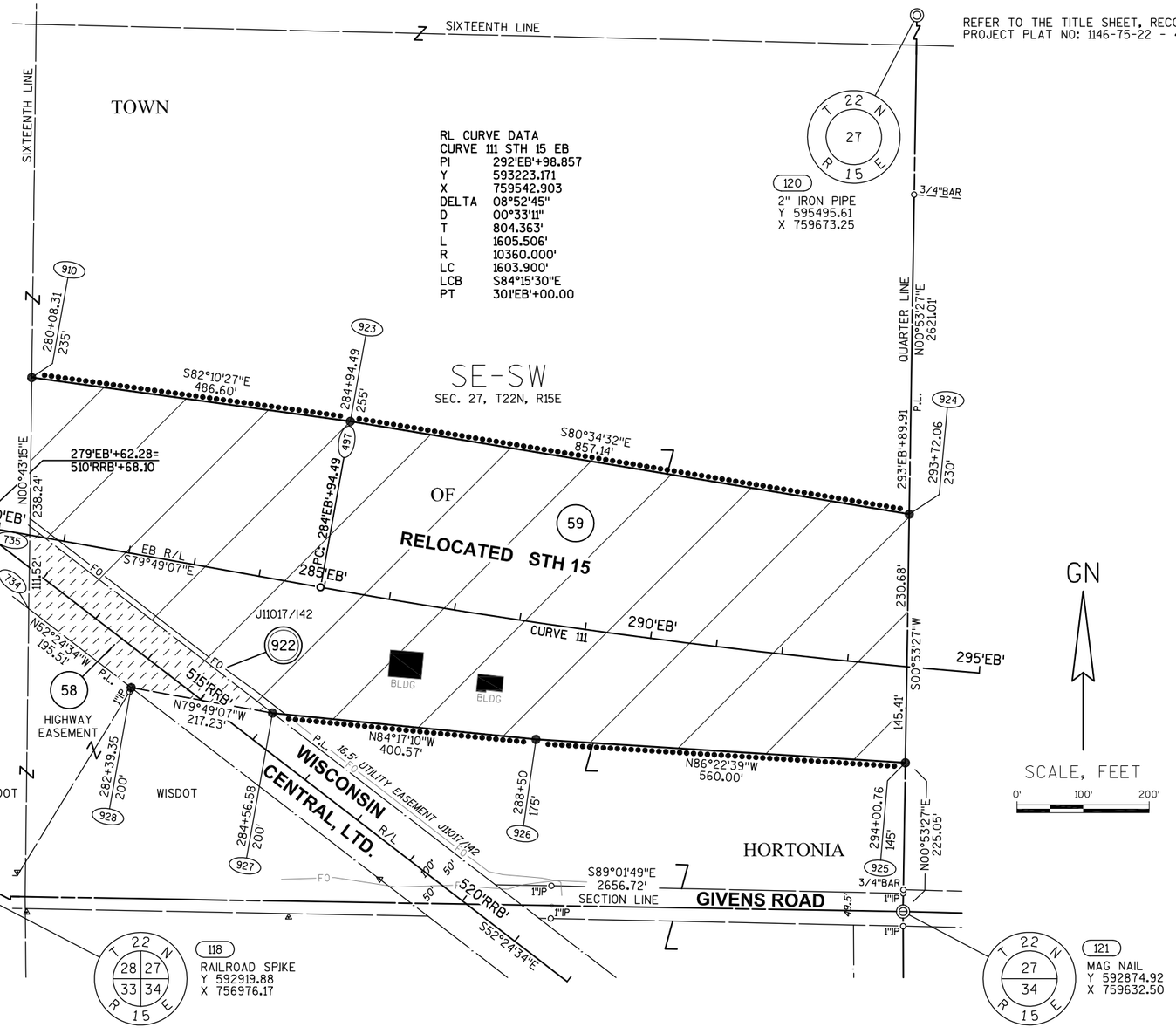
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1) THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

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Pages: 1 Fee: $25.00
County: OUTAGAMIE COUNTY State: WI

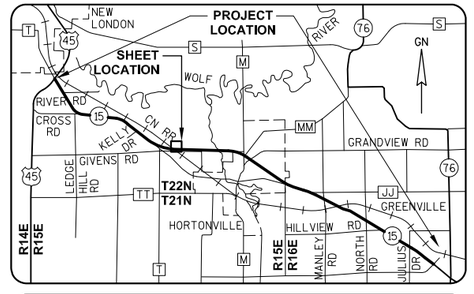
SARAH R VAN CAMP, REGISTER OF DEEDS
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WiDotNeRegionGreenbay

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.22
AMENDMENT NO: 1

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.



WISCONSIN
JAY W. PANETTI S-2747 WAUPUN, WI
LAND SURVEYOR



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.22, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 2/3/2016 JAY W. PANETTI PLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 2/18/2016 CURT VAN EREM REAL ESTATE SUPERVISOR

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
GIVENS ROAD	TPP NO: 6430-06-00 - 4.11	2011
WISCONSIN CENTRAL, LTD. RAILROAD	V39/P344	1876

REVISED: 2/3/2016

040422_15.DWG

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.22

PART OF THE SE1/4-SW1/4 OF SECTION 27, T22N, R15E, TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

Document #: **2017966**
Date: **03-16-2015** Time: **08:29 AM**
Pages: **1** Fee: **$25.00**
County: **CUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP, REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.22
AMENDMENT NO:

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

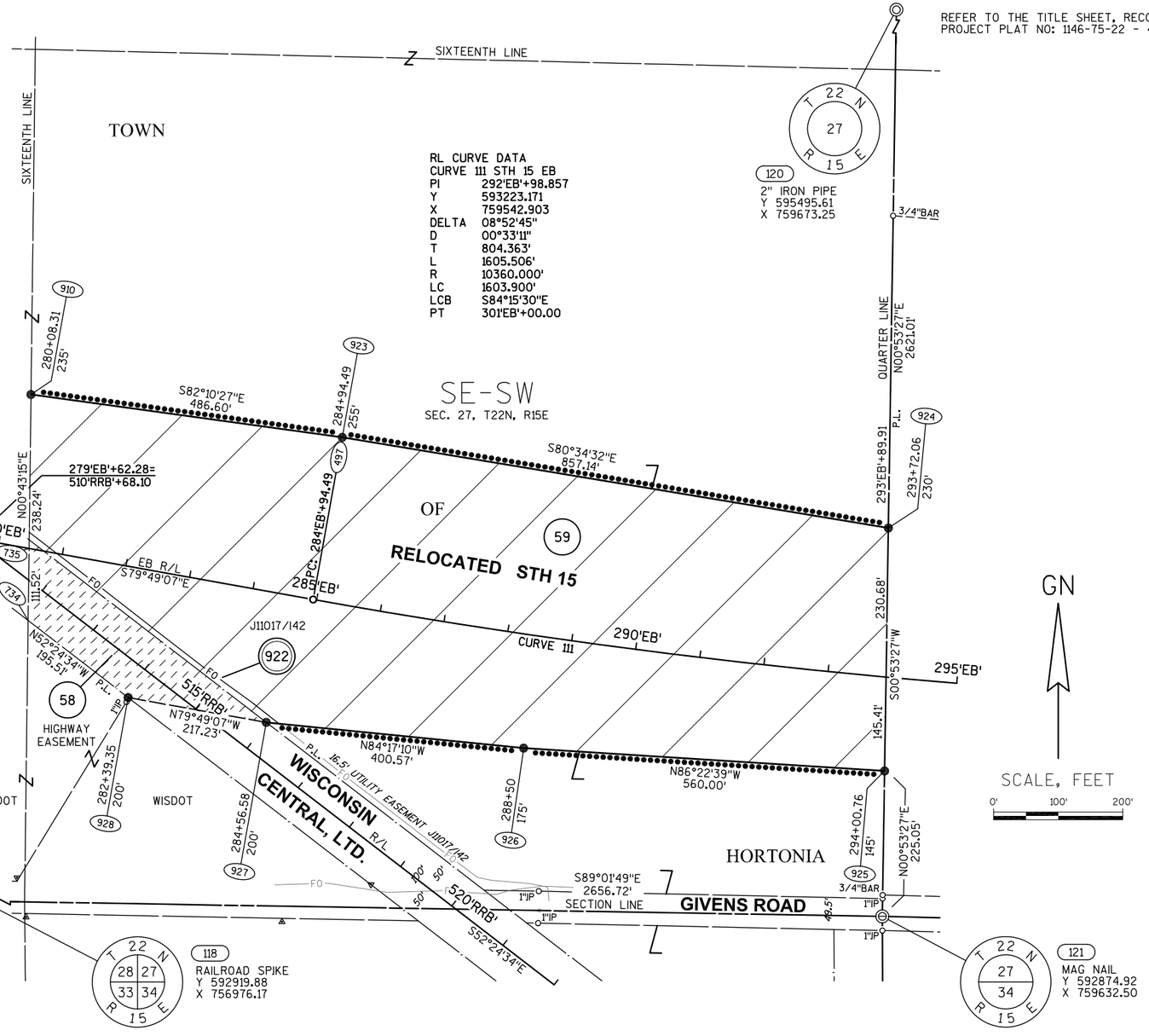
PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	H.E. ACRES PERM.	TLE ACRES TEMP.
58	WISCONSIN CENTRAL, LTD.	HIGHWAY EASEMENT	0	0	0	0.756	0
59	KEVIN SAMBS & JANE SAMBS	FEE	12.190	0	12.190	0	0

UTILITY INTERESTS REQUIRED:

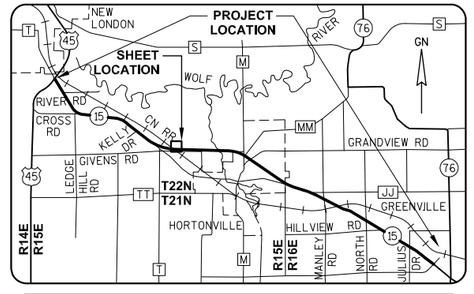
922	AT&T WISCONSIN	RELEASE OF RIGHTS

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
GIVENS ROAD	TPP NO: 6430-06-00 - 4.11	2011
WISCONSIN CENTRAL, LTD. RAILROAD	V39/P344	1876



WISCONSIN
JAY W. PANETTI
S-2747
WAUPUN, WI
LAND SURVEYOR



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.22, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 11/06/2014 JAY W. PANETTI RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 3/11/2015 CURT VAN EREM
REAL ESTATE SUPERVISOR

REVISED: 11/06/2014

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APPRAISAL PLAT DATE:

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 ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
63	IRVING J. PARTIKA & GENEVRA PARTIKA	FEE, TLE	9.717	0	9.717	0.326

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.23 AMENDMENT NO: 2

AMENDS PARCEL 63 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.23, AMENDMENT NO. 1, RECORDED AS DOCUMENT #2035590.
PART OF LOT 1 OF CSM 3642 BEING PART OF THE SW1/4-SE1/4 OF SECTION 27, T22N, R15E, ALL IN THE TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

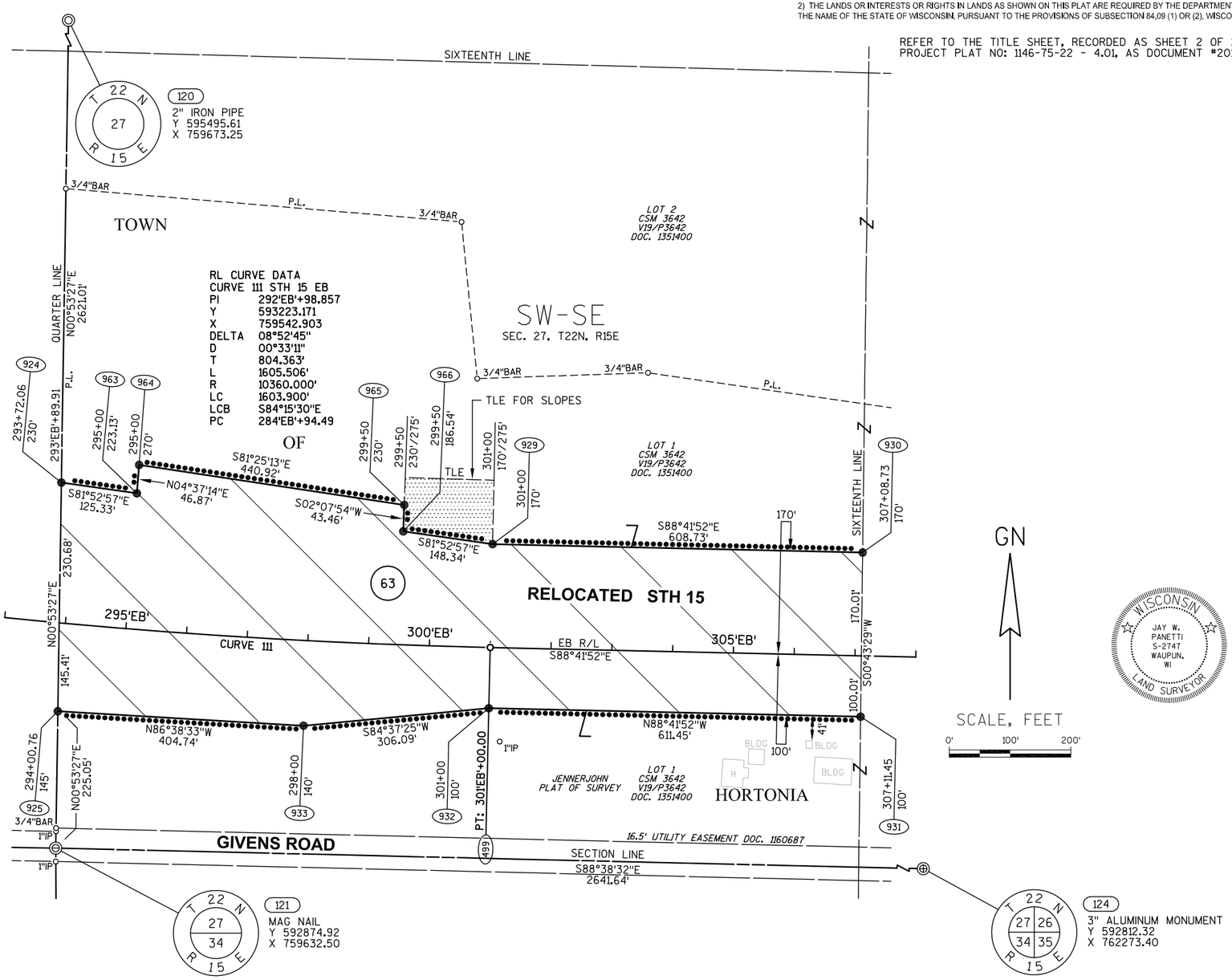
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1) THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

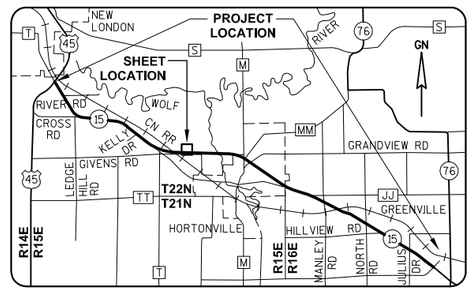
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Date: 01-21-2016 Time: 10:30 AM
Pages: 1 Fee: $25.00
County: OUTAGAMIE County State: WI

SARAH R VAN CAMP, REGISTER OF DEEDS
This document has been electronically recorded and returned to:
WiDotNeRegionGreenbay

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.23
AMENDMENT NO: 2



WISCONSIN
JAY W. PANETTI
S-2747
WAUPUN, WI
LAND SURVEYOR



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.23, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 1/12/2016 JAY W. PANETTI
PLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 1/19/2016 CURT VAN EREM
REAL ESTATE SUPERVISOR

040423_15.DWG REVISED: 1/12/2016

APPRAISAL PLAT DATE:

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 ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
63	IRVING J. PARTIKA & GENEVRA PARTIKA	FEE, TLE	9.261	0	9.261	0.782

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.23 AMENDMENT NO: 1

AMENDS PARCEL 63 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.23, RECORDED AS DOCUMENT #2017852. PART OF LOT 1 OF CSM 3642 BEING PART OF THE SW1/4-SE1/4 OF SECTION 27, T22N, R15E, ALL IN THE TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

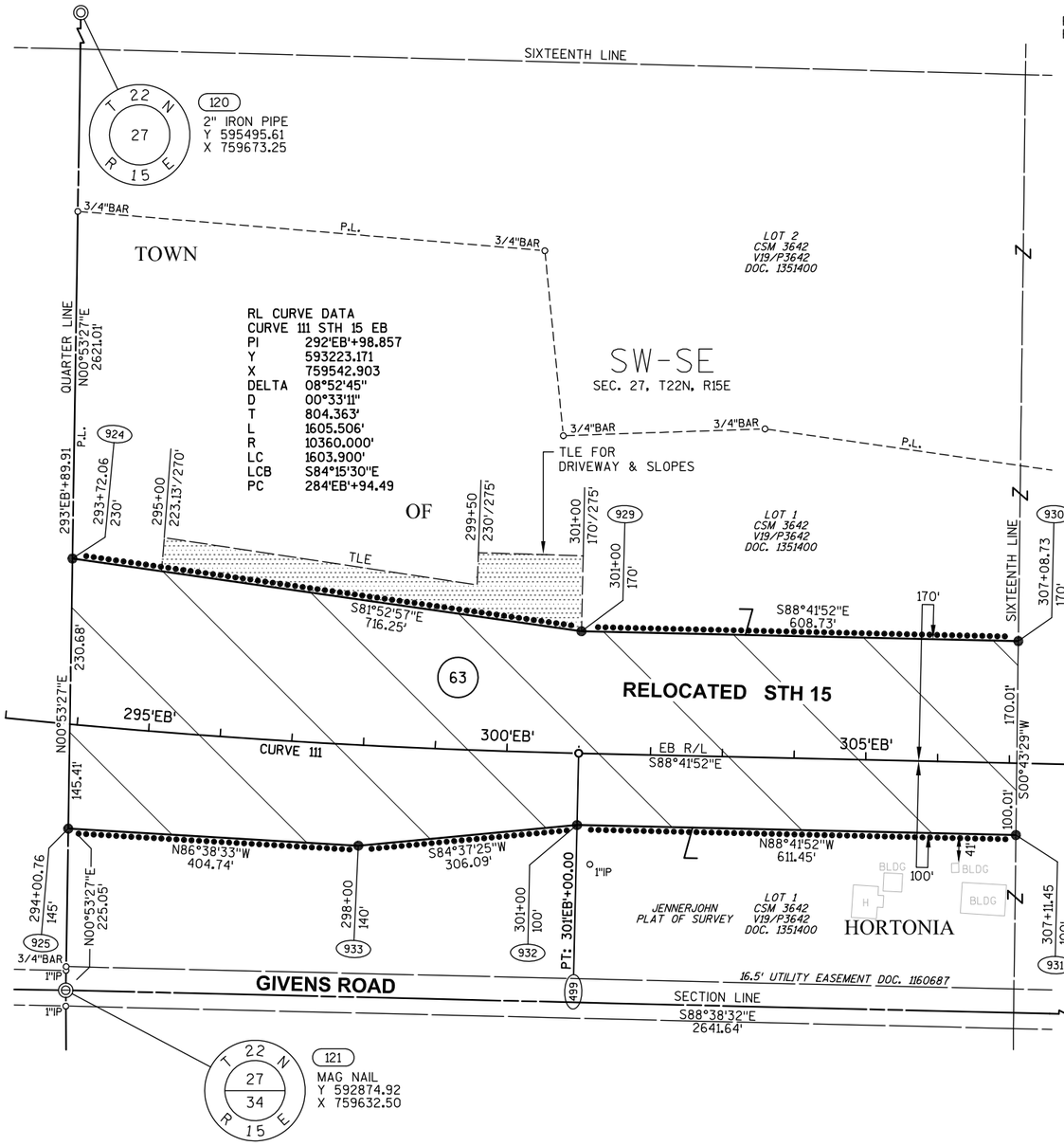
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1) THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

Document #: 2035598
Date: 02-06-2015 Time: 09:15 AM
Pages: 1 Fee: $25.00
County: OUTAGAMIE County State: WI

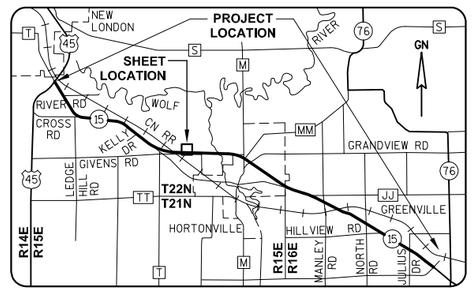
SARAH R VAN CAMP , REGISTER OF DEEDS
The above recording information verifies this document has been electronically recordec and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.23
AMENDMENT NO: 1

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.



WISCONSIN
JAY W. PANETTI S-2747 WAUPUN, WI
LAND SURVEYOR



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.23, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 11/06/2014 JAY W. PANETTI RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 2/4/2015 CURT VAN EREM REAL ESTATE SUPERVISOR

040423_15.DWG REVISED: 11/06/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.23

PART OF LOT 1 OF CSM 3642 BEING PART OF THE SW1/4-SE1/4 OF SECTION 27, T22N, R15E, ALL IN THE TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 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 NAMED PROJECT.
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REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

Document #: 2017852
Date: 06-19-2014 Time: 09:45 AM Pages: 1
Fee: $25.00 County: OUTAGAMIE State: WI

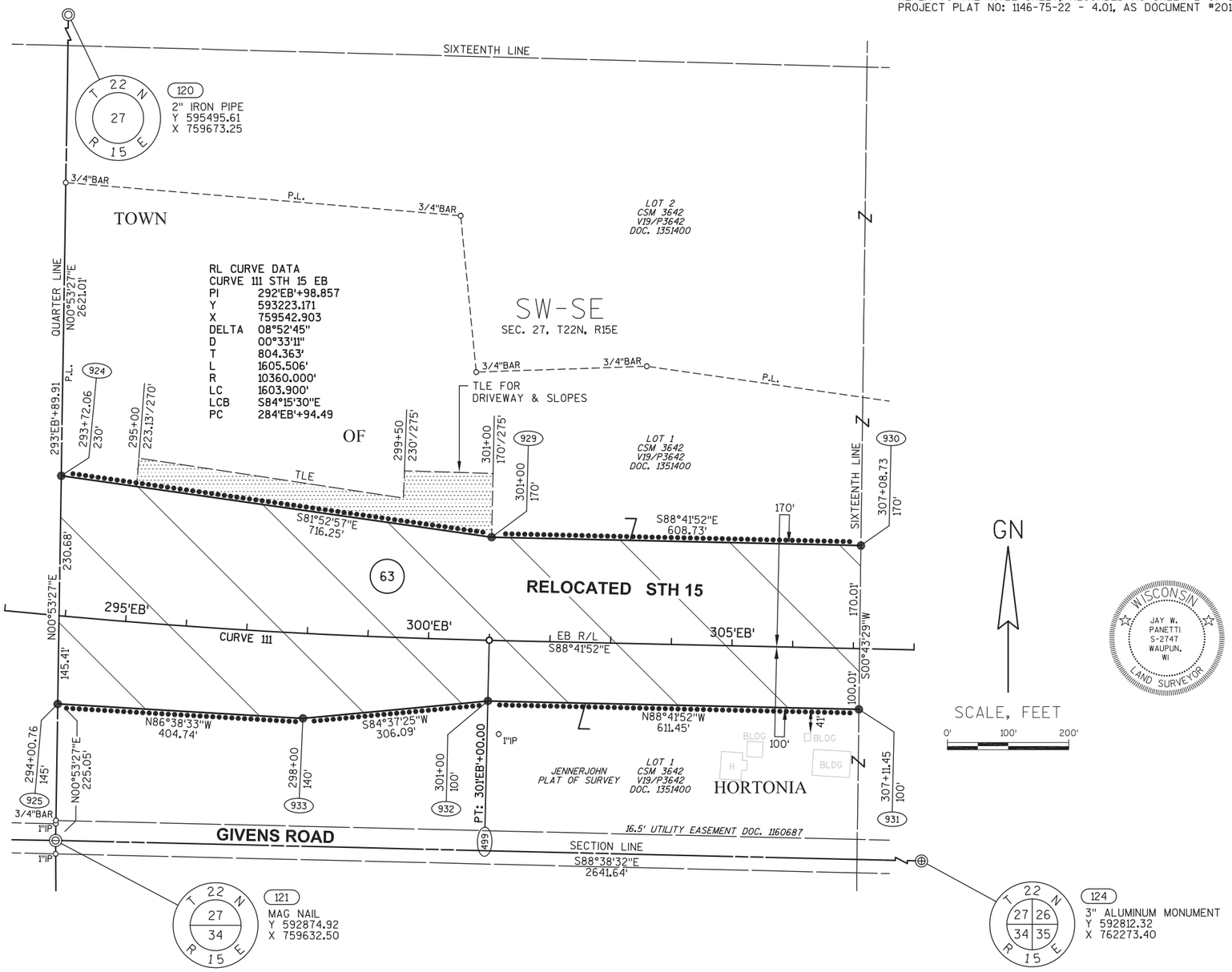
SARAH R VAN CAMP
REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.23
AMENDMENT NO:

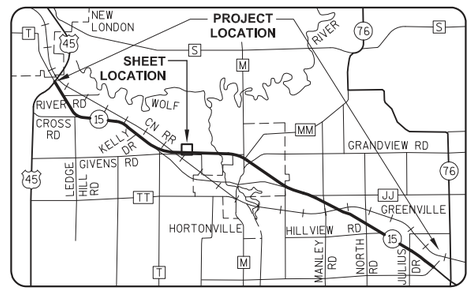
SCHEDULE OF LANDS & INTERESTS REQUIRED

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 ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
63	IRVING J. PARTIKA & GENEVRA PARTIKA	FEE, ACCESS RIGHTS, TLE	9.261	0	9.261	0.782



WISCONSIN
JAY W. PANETTI S-2747 WAUPUN, WI
LAND SURVEYOR



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.23, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 5/21/2014 JAY W. PANETTI RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 6/18/2014 CURT VAN EREM REAL ESTATE SUPERVISOR

040423_15.DWG REVISED: 05/21/2014

APPRAISAL PLAT DATE:

SCHEDULE OF LANDS & INTERESTS REQUIRED

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PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
63	IRVING J. PARTIKA & GENEVRA PARTIKA	FEE	8.240	0	8.240	0

UTILITY INTERESTS REQUIRED:

922	AT&T WISCONSIN	RELEASE OF RIGHTS

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.24 AMENDMENT NO: 1

AMENDS PARCEL 63 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.24, RECORDED AS DOCUMENT #2017853. PART OF LOT 1 OF CSM 3642 BEING PART OF THE SE1/4-SE1/4 OF SECTION 27, T22N, R15E, ALL IN THE TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

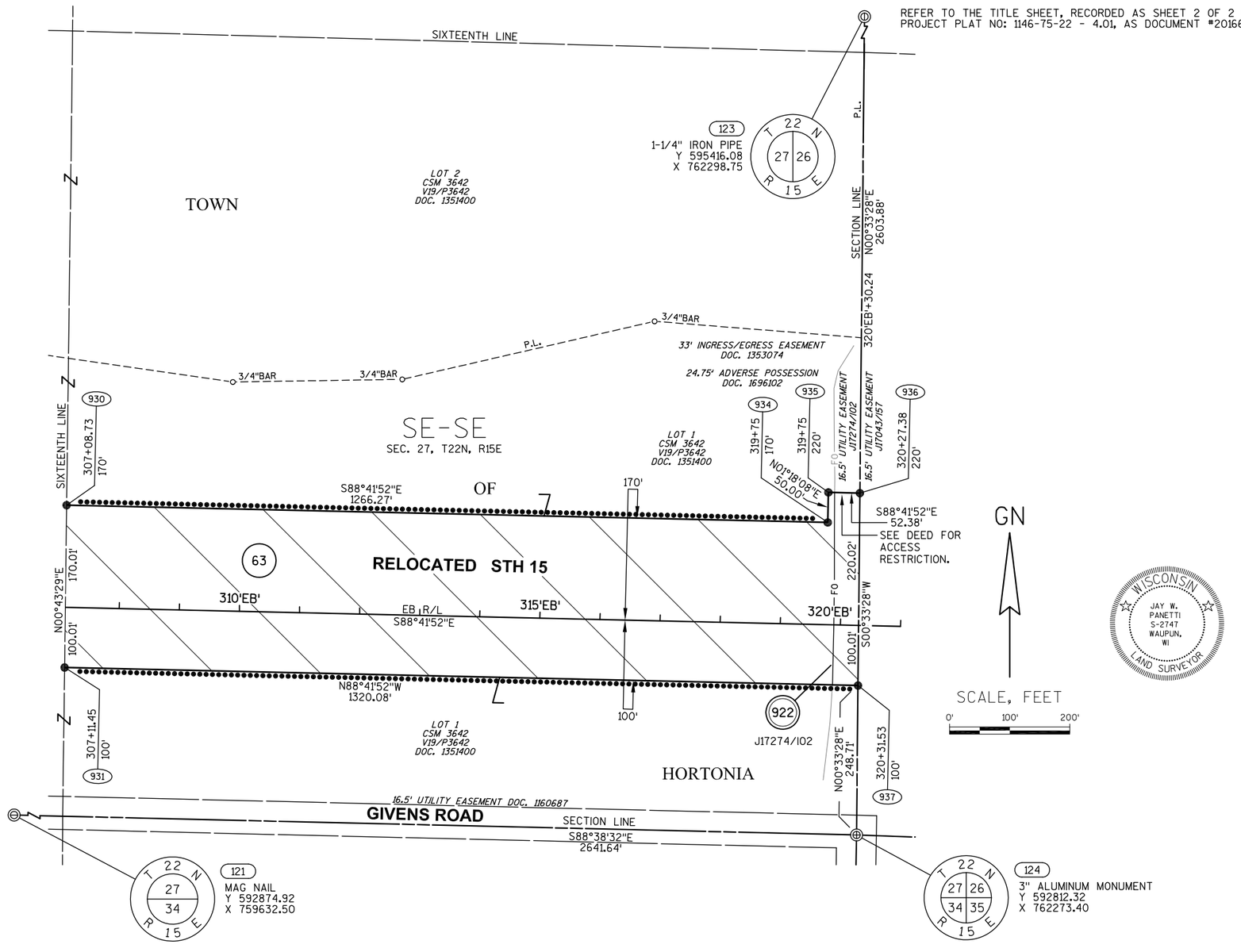
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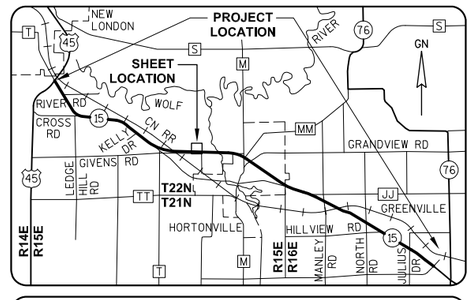
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Date: **02-06-2015** Time: **09:15 AM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP, REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.24
AMENDMENT NO: 1

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.





GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.24, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 11/06/2014 JAY W. PANETTI RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 2/4/2015 CURT VAN EREM REAL ESTATE SUPERVISOR

040424_15.DWG REVISED: 11/06/2014

APPRAISAL PLAT DATE:

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 ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
63	IRVING J. PARTIKA & GENEVRA PARTIKA	FEE, ACCESS RIGHTS	8.240	0	8.240	0

UTILITY INTERESTS REQUIRED:

922	AT&T WISCONSIN	RELEASE OF RIGHTS

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.24

PART OF LOT 1 OF CSM 3642 BEING PART OF THE SE1/4-SE1/4 OF SECTION 27, T22N, R15E, ALL IN THE TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

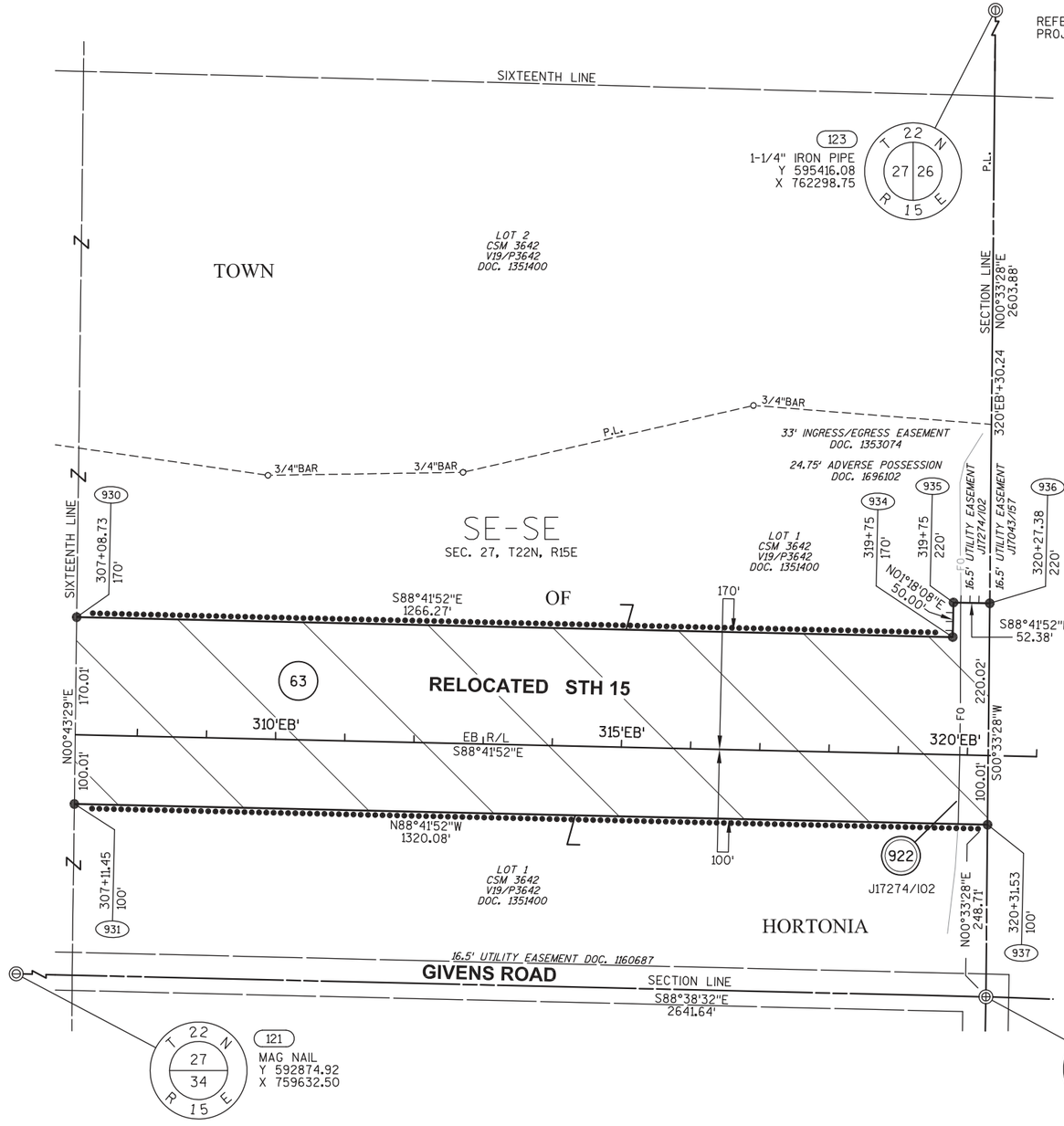
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
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REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

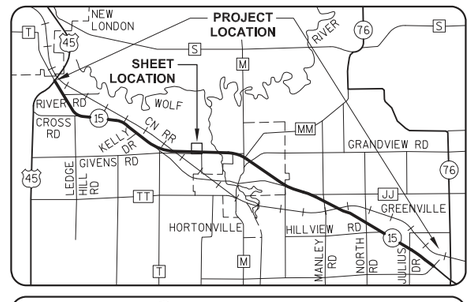
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Date: **05-19-2014** Time: **09:46 AM** Pages: **1**
Fee: **$25.00** County: **OUTAGAMIE** State: **WI**

SARAH R VAN CAMP
REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.24
AMENDMENT NO:



WISCONSIN
JAY W. PANETTI
S-2747
WAUPUN, WI
LAND SURVEYOR



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.24, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 5/21/2014 — JAY W. PANETTI, RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 6/18/2014 — CURT VAN EREM, REAL ESTATE SUPERVISOR

040424_15.DWG REVISED: 05/21/2014

APPRAISAL PLAT DATE:

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 ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
64	JAMES I. SYKES & MARIANN D. SYKES	FEE	8.212	0	8.212	0

UTILITY INTERESTS REQUIRED:

922	AT&T WISCONSIN	RELEASE OF RIGHTS

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.25 AMENDMENT NO: 1

AMENDS PARCEL 64 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.25, RECORDED AS DOCUMENT #2017854.
PART OF THE SW1/4-SW1/4 OF SECTION 26, T22N, R15E, TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

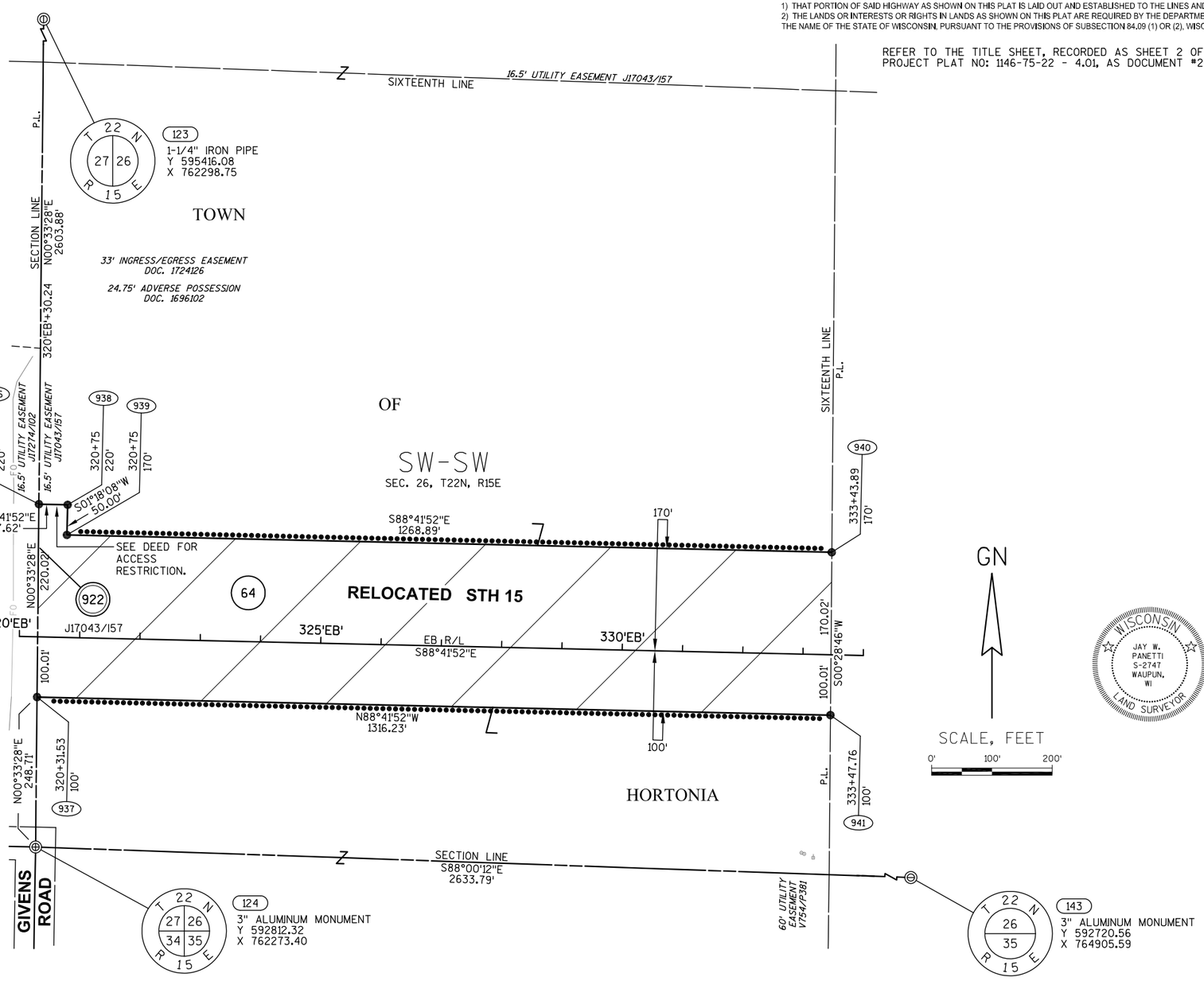
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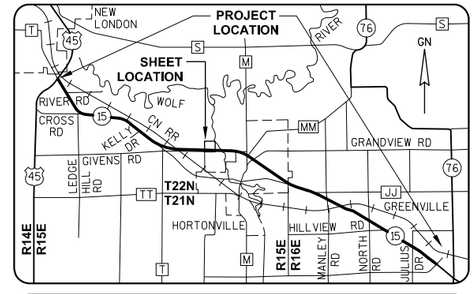
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REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

Document #: 2035592
Date: 02-06-2015 Time: 09:16 AM
Pages: 1 Fee: $25.00
County: OUTAGAMIE County State: WI
SARAH R VAN CAMP, REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.25
AMENDMENT NO: 1





GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.25, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 11/06/2014 JAY W. PANETTI RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 2/4/2015 CURT VAN EREM
REAL ESTATE SUPERVISOR

040425_15.DWG REVISED: 11/06/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.25

PART OF THE SW1/4-SW1/4 OF SECTION 26, T22N, R15E, TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

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

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

Document #: **2017854**
Date: **06-19-2014** Time: **09:47 AM** Pages: **1**
Fee: **$25.00** County: **OUTAGAMIE** State: **WI**

SARAH R VAN CAMP
REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.25
AMENDMENT NO:

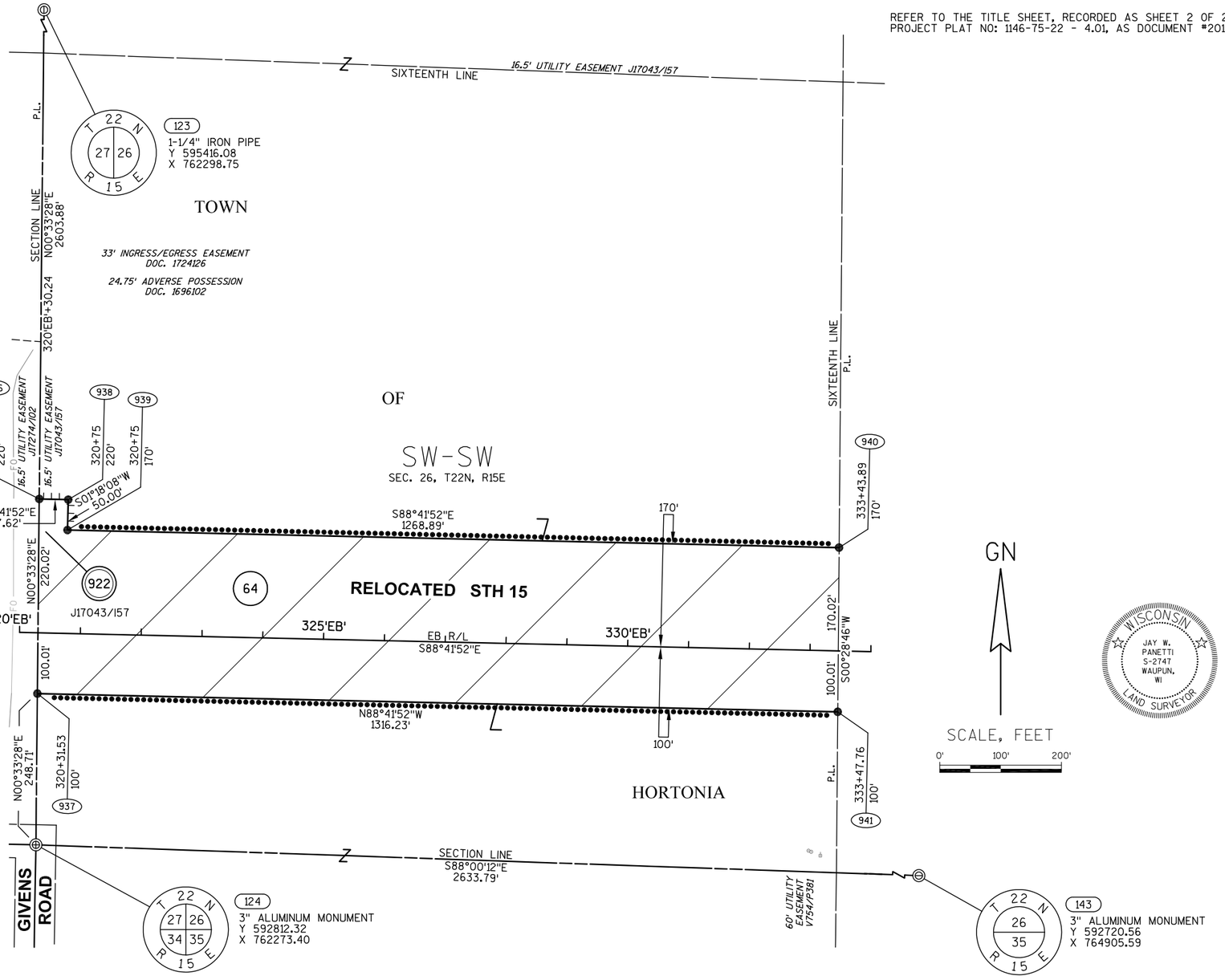
SCHEDULE OF LANDS & INTERESTS REQUIRED

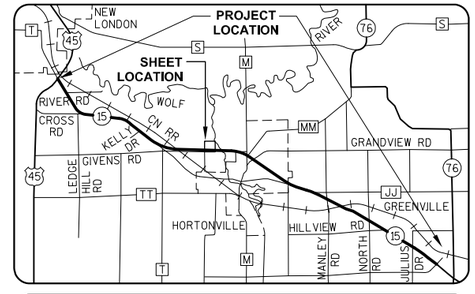
OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW	ACRES REQUIRED EXISTING	ACRES REQUIRED TOTAL	TLE ACRES TEMP.
64	JAMES I. SYKES & MARIANN D. SYKES	FEE, ACCESS RIGHTS	8.212	0	8.212	0

UTILITY INTERESTS REQUIRED:

922	AT&T WISCONSIN	RELEASE OF RIGHTS





GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.25, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 5/21/2014 — JAY W. PANETTI, RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 6/18/2014 — CURT VAN EREM, REAL ESTATE SUPERVISOR

040425_15.DWG REVISED: 05/21/2014

APPRAISAL PLAT DATE:

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 ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
66	DON E. PARKER & MARGARET E. PARKER	FEE, TLE	8.247	0	8.247	0.138

UTILITY INTERESTS REQUIRED:

919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.26 AMENDMENT NO: 1

AMENDS PARCEL 66 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.26, RECORDED AS DOCUMENT #2017855.
PART OF THE SE1/4-SW1/4 OF SECTION 26, T22N, R15E, TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

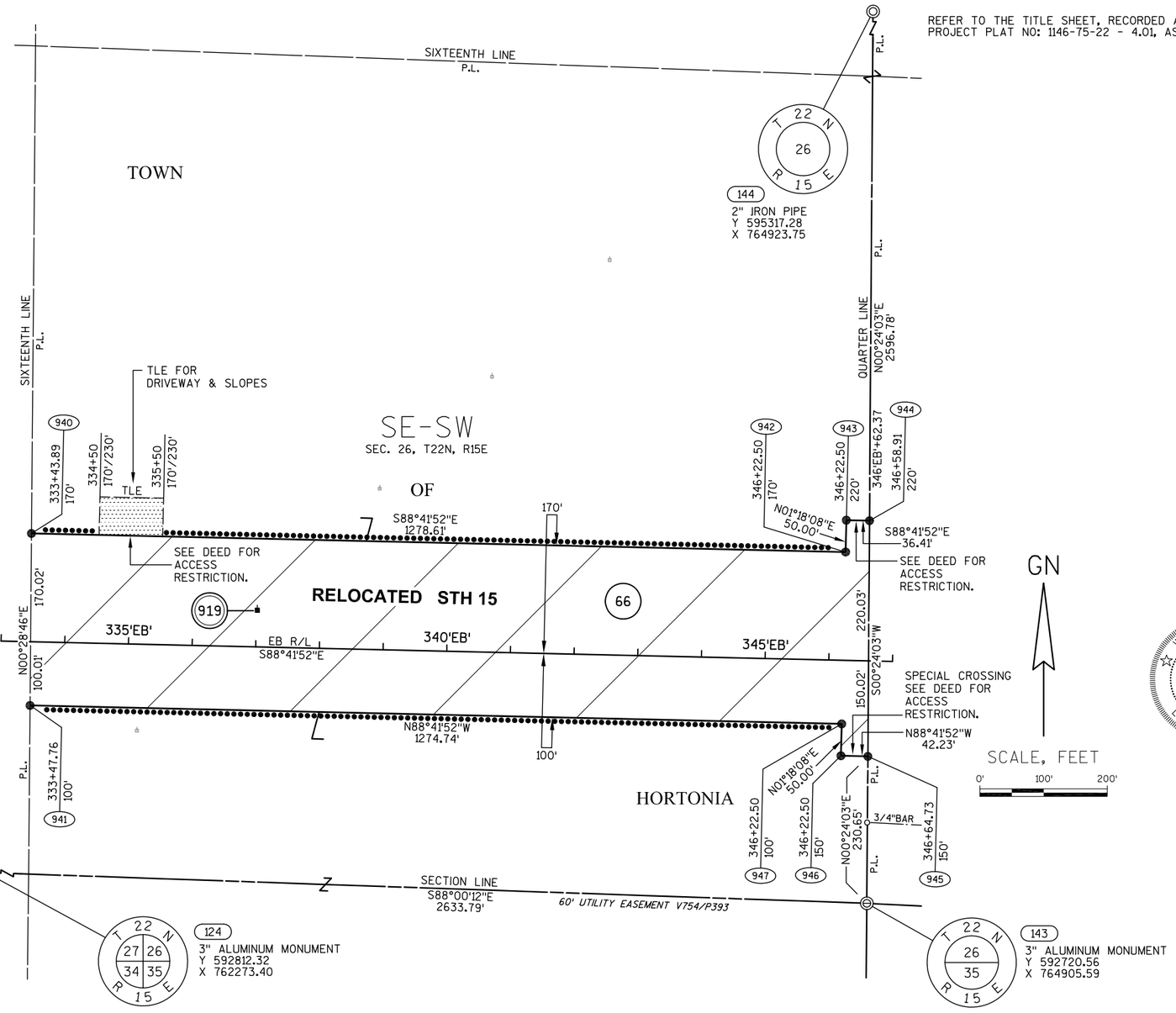
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1) THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

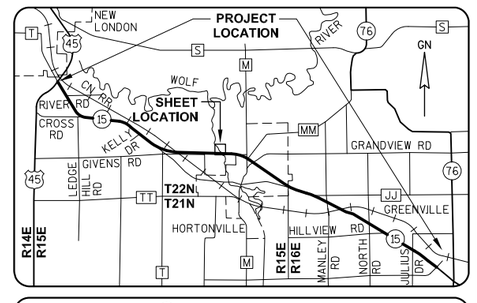
REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

Document #: **2035792**
Date: **02-09-2015** Time: **12:33 PM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMII COUNTY** State: **WI**

SARJH R VAN CAMP, REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.26
AMENDMENT NO: 1





GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.26, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 12/09/2014 JAY W. PANETTI RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 2/6/2015 CURT VAN EREM REAL ESTATE SUPERVISOR

040426_15.DWG REVISED: 12/09/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.26

PART OF THE SE1/4-SW1/4 OF SECTION 26, T22N, R15E, TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

Document #: **2017855**
Date: **06-19-2014** Time: **09:48 AM** Pages: **1**
Fee: **$25.00** County: **OUTAGAMIE** State: **WI**

SARAH R VAN CAMP
REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.26
AMENDMENT NO:

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

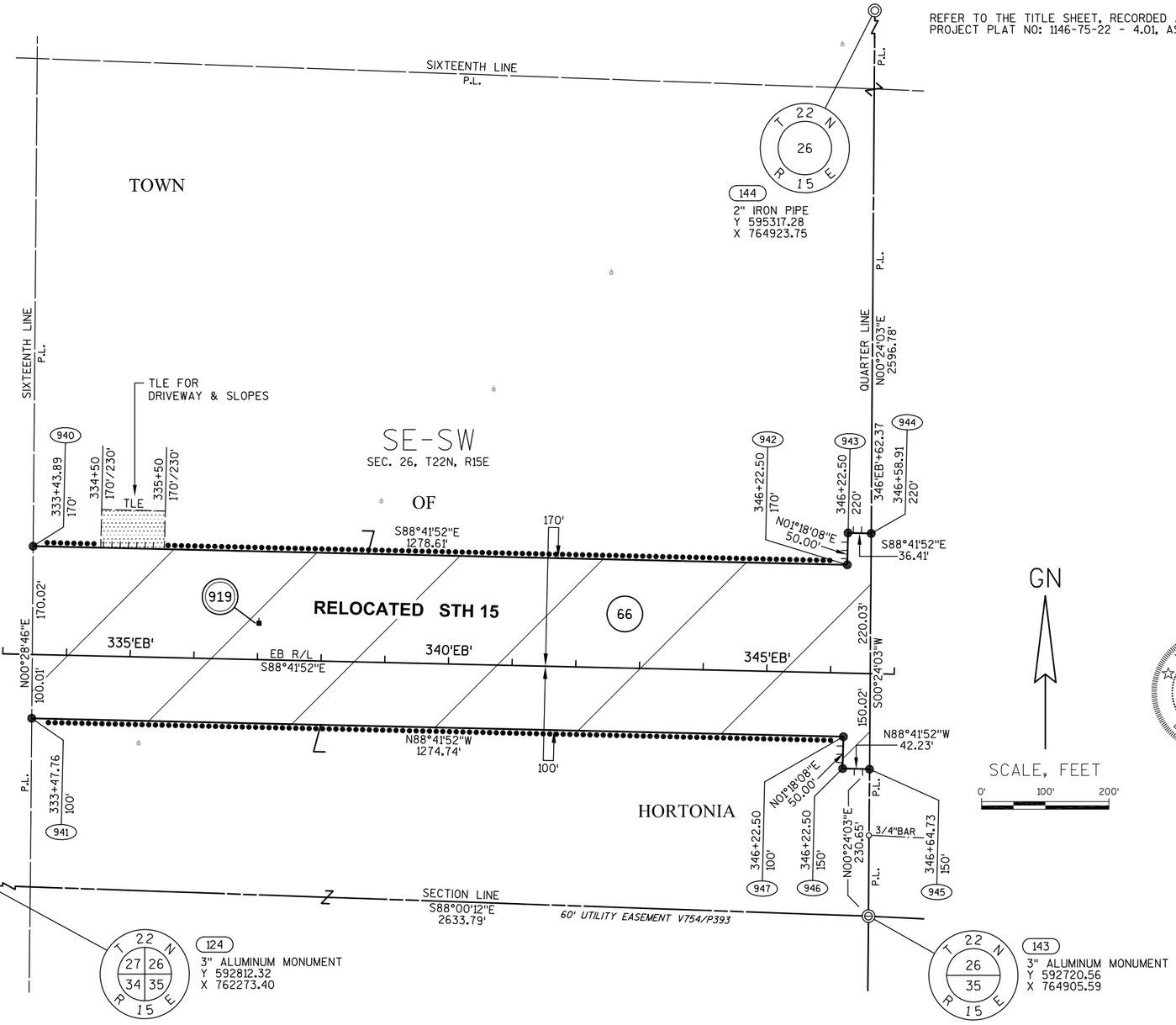
SCHEDULE OF LANDS & INTERESTS REQUIRED

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

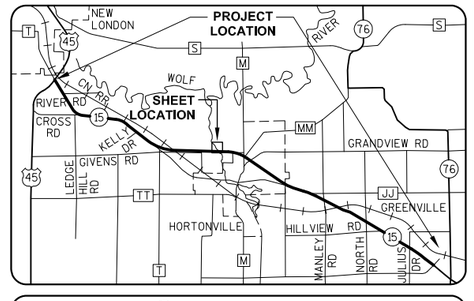
PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
66	DON E. PARKER & MARGARET E. PARKER	FEE, ACCESS RIGHTS, TLE	8.247	0	8.247	0.138

UTILITY INTERESTS REQUIRED:

919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS



WISCONSIN
JAY W. PANETTI
S-2747
WAUPUN, WI
LAND SURVEYOR



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.26, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 5/21/2014 JAY W. PANETTI RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 6/18/2014 CURT VAN EREM
REAL ESTATE SUPERVISOR

040426_15.DWG REVISED: 05/21/2014

APPRAISAL PLAT DATE:

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 ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
67	MICHAEL S. SCHERNICK	FEE	4.345	0	4.345	0
68	GRAND VIEW GOLF CLUB, INC.	FEE	3.905	0	3.905	0

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.27 AMENDMENT NO: 1

AMENDS PARCEL 67 AND PARCEL 68 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.27, RECORDED AS DOCUMENT #2017856.
PART OF THE SW1/4-SE1/4 OF SECTION 26, T22N, R15E, TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

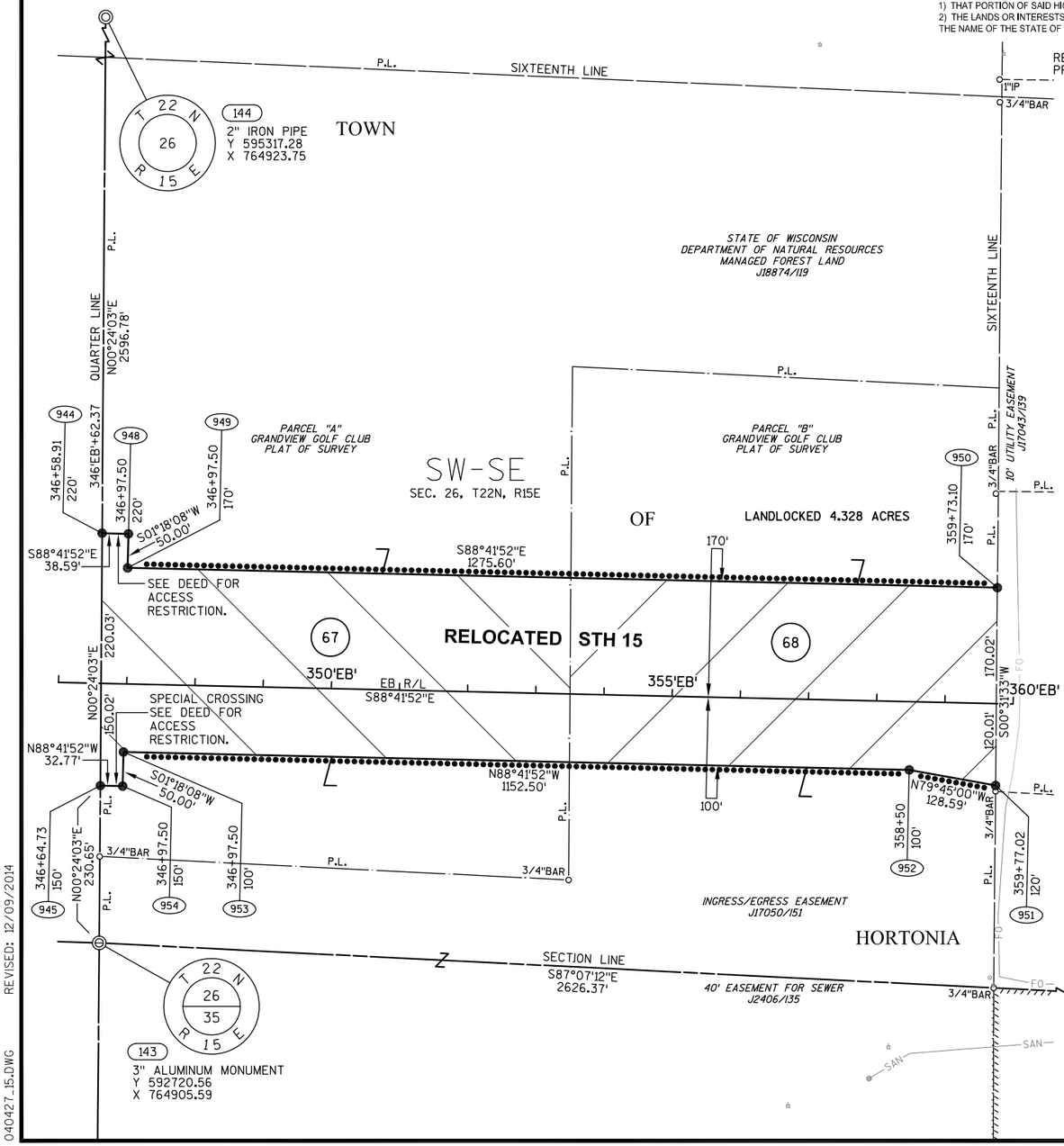
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN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

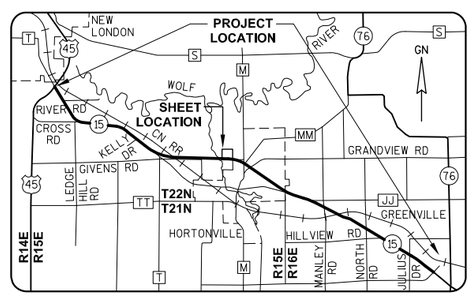
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Document #: 2015793
Date: 02-09-2015 Time: 12:34 PM
Pages: 1 Fee: $25.00
County: OUTAGAMIE COUNTY State: WI
SARAH R VAN CAMP REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.27
AMENDMENT NO: 1

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.





GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.27, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 12/09/2014 JAY W. PANETTI
RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 2/6/2015 CURT VAN EREM
REAL ESTATE SUPERVISOR

040427_15.DWG REVISED: 12/09/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.27

PART OF THE SW1/4-SE1/4 OF SECTION 26, T22N, R15E, TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

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REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

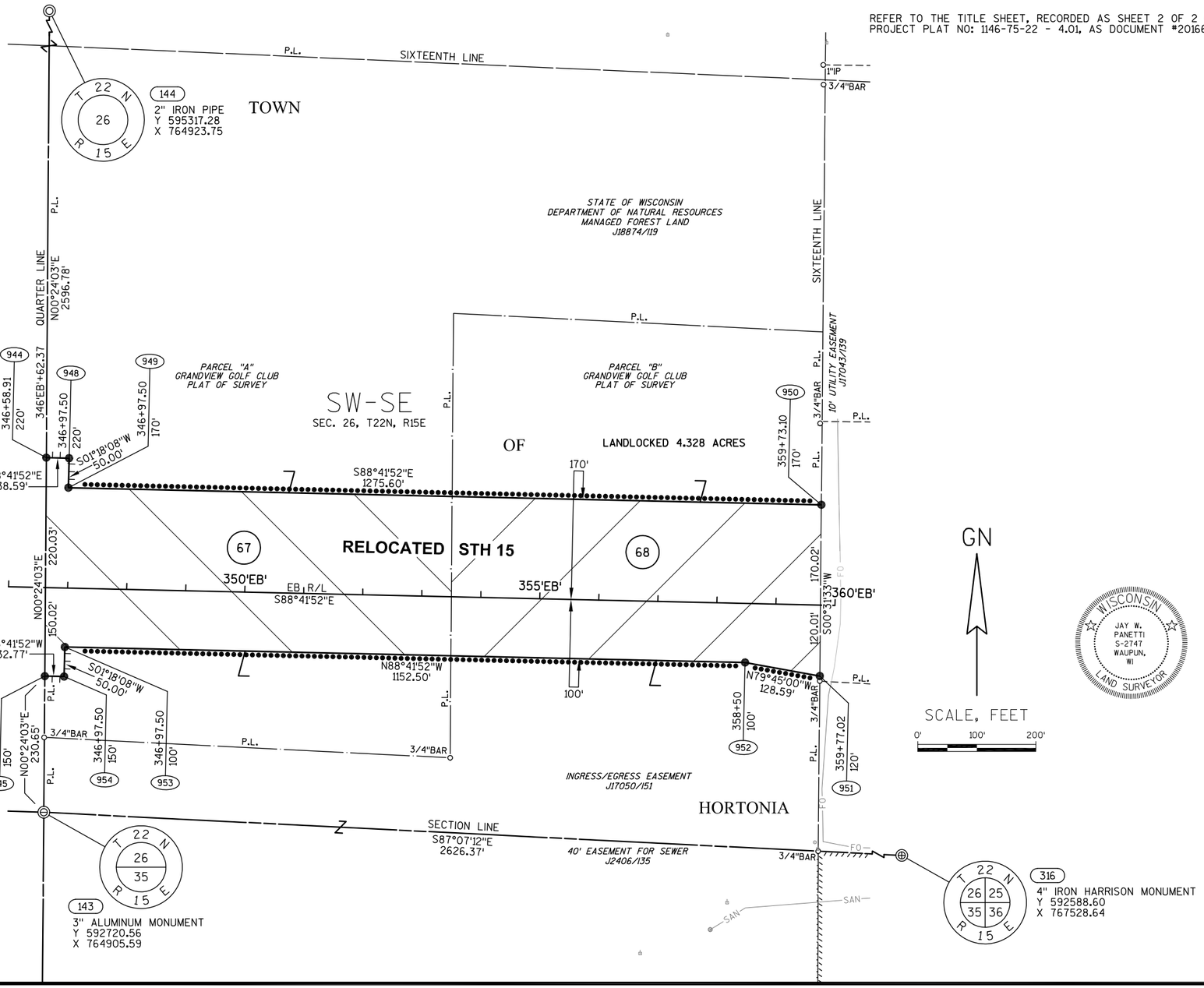
Document #: 2017856
Date: 06-19-2014 Time: 09:48 AM Pages: 1
Fee: $25.00 County: OUTAGAMIE State: WI
SARAH R VAN CAMP
REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

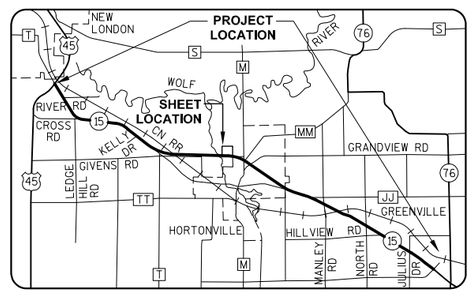
RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.27
AMENDMENT NO:

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 ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
67	MICHAEL S. SCHERNICK	FEE, ACCESS RIGHTS	4.345	0	4.345	0
68	GRAND VIEW GOLF CLUB, INC.	FEE, ACCESS RIGHTS	3.905	0	3.905	0





GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.27, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 5/21/2014 JAY W. PANETTI
RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 6/18/2014 CURT VAN EREM
REAL ESTATE SUPERVISOR

040427_15.DWG REVISED: 05/21/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.28 AMENDMENT NO: 1

AMENDS PARCEL 69 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.28, RECORDED AS DOCUMENT #2017857. PART OF LOT 1 OF CSM 4252 BEING PART OF THE SE1/4-SE1/4 OF SECTION 26, T22N, R15E, ALL IN THE TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

Document #: **2035593**
Date: **02-06-2015** Time: **09:16 AM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP, REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.28
AMENDMENT NO: 1

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 ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
69	DARLENE R. GRANT & BRUCE GRANT	FEE	3.005	0	3.005	0

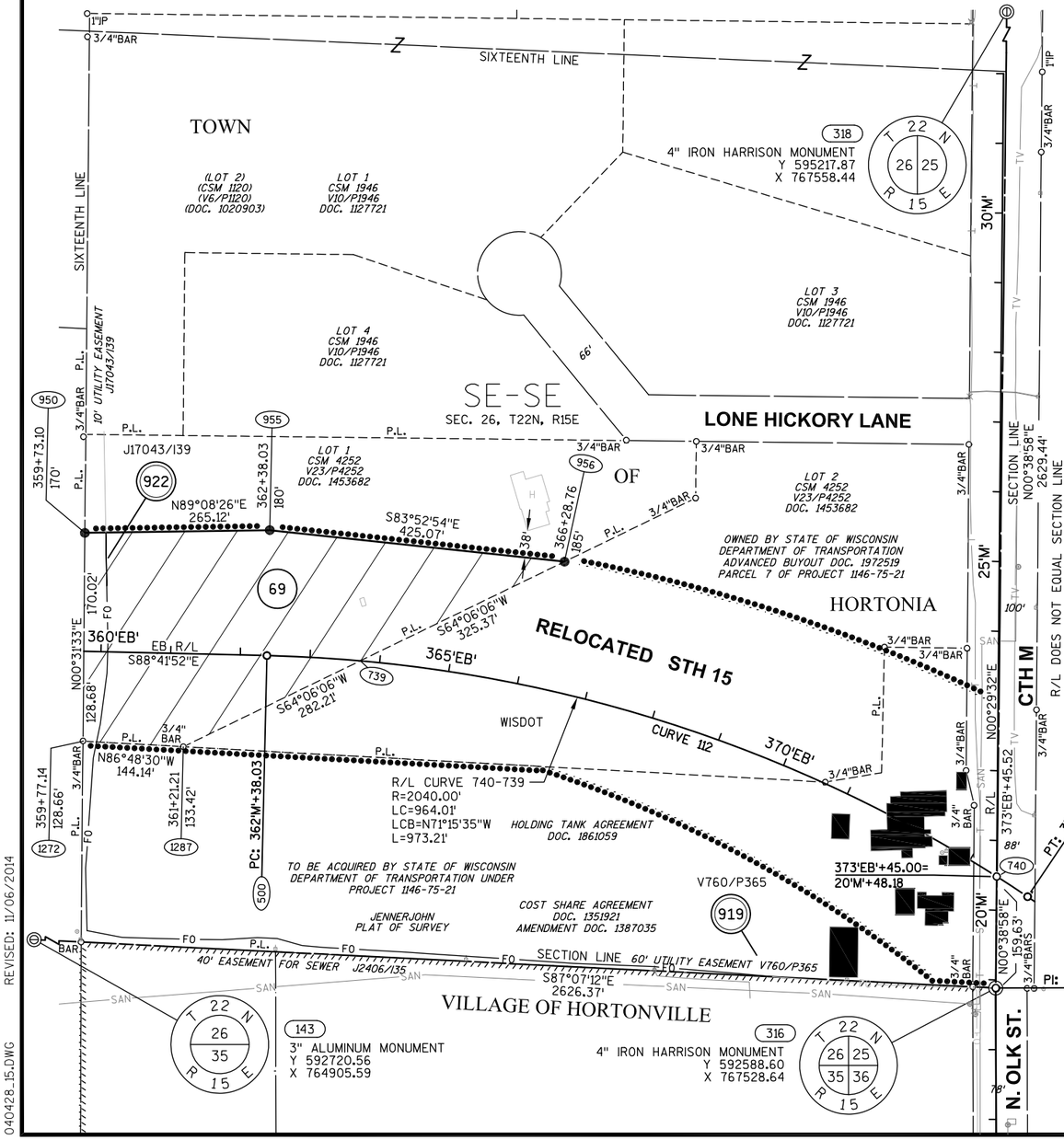
UTILITY INTERESTS REQUIRED:

919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
922	AT&T WISCONSIN	RELEASE OF RIGHTS

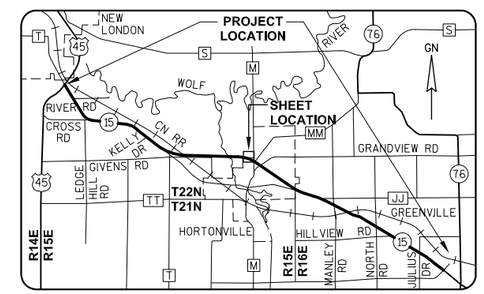
REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
CTH M	OUTAGAMIE COUNTY MONUMENTATION PLAT	2009



RL CURVE DATA
CURVE 112 STH 15 EB
PI 368'EB'+34.136
N 593051.857
E 767079.455
DELTA 32°34'40"
D 02°48'31"
T 596.108'
L 1159.921'
R 2040.000'
LC 1144.360'
LCB N72°24'32"W



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.28, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 11/06/2014 JAY W. PANETTI RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 2/4/2015 CURT VAN EREM
REAL ESTATE SUPERVISOR

WISCONSIN JAY W. PANETTI S-2747 WAUPUN, WI LAND SURVEYOR

REVISED: 11/06/2014
040428_15.DWG

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.28

PART OF LOT 1 OF CSM 4252 BEING PART OF THE SE1/4-SE1/4 OF SECTION 26, T22N, R15E, ALL IN THE TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

Document #: 2017857
Date: 06-19-2014 Time: 09:50 AM Pages: 1
Fee: $25.00 County: OUTAGAMIE State: WI

SARAH R VAN CAMP
REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.28
AMENDMENT NO:

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

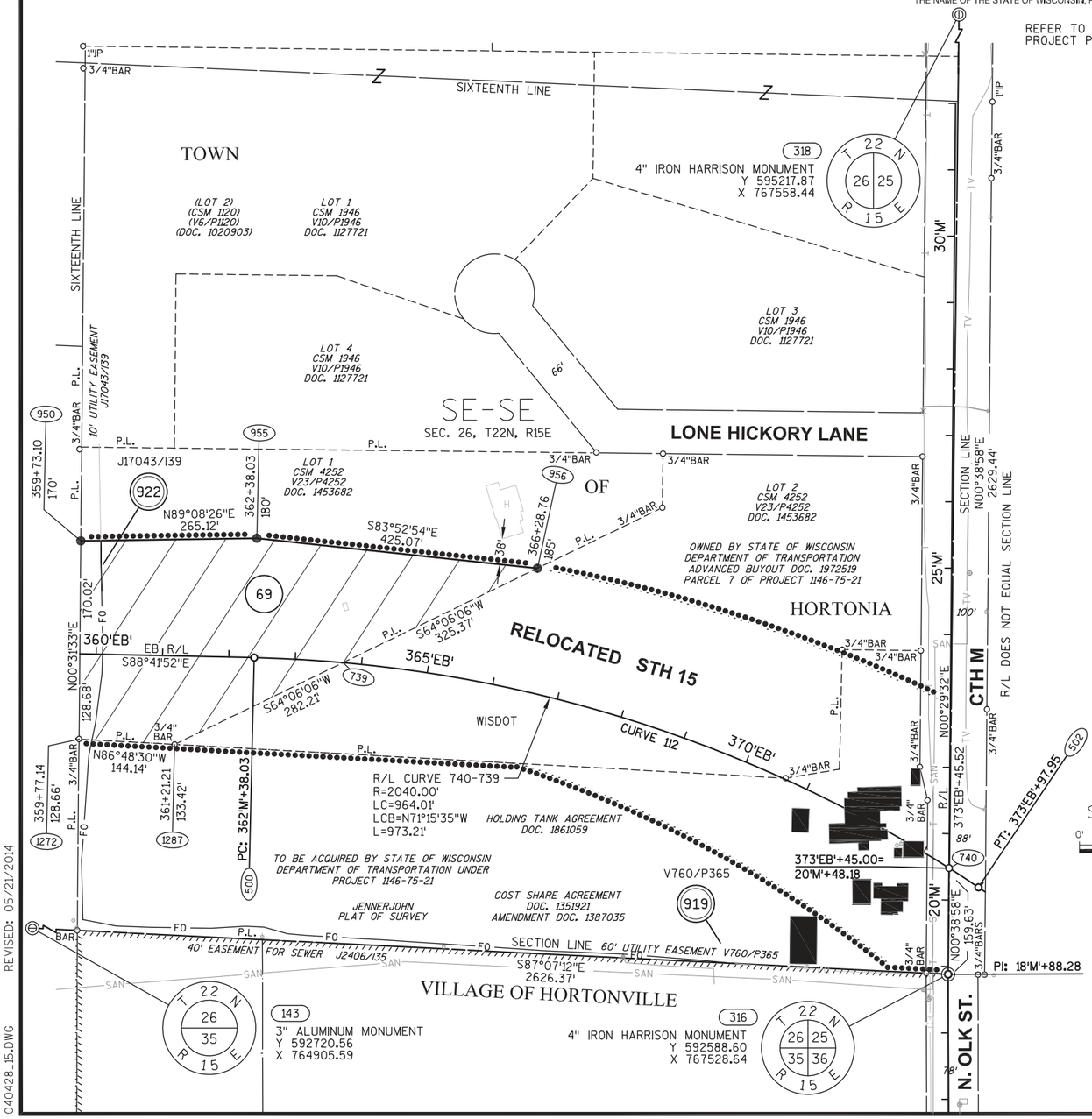
PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
69	DARLENE R. GRANT & BRUCE GRANT	FEE, ACCESS RIGHTS	3.005	0	3.005	0

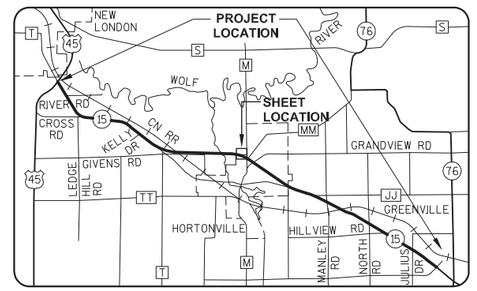
UTILITY INTERESTS REQUIRED:

919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
922	AT&T WISCONSIN	RELEASE OF RIGHTS

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
CTH M	OUTAGAMIE COUNTY MONUMENTATION PLAT	2009





GREMMER & ASSOCIATES, INC. CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.28, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 5/21/2014 JAY W. PANETTI RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 6/18/2014 CURT VAN EREM REAL ESTATE SUPERVISOR

040428_15.DWG REVISED: 05/21/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.29 AMENDMENT NO. 3

AMENDS PARCEL 101 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.29 AMENDMENT NO. 2 RECORDED AS DOCUMENT NO. 2064145, AND AMENDS PARCELS 105 AND 107, AND REMOVES PARCEL 108 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.29 RECORDED AS DOCUMENT NO. 2020289. PART OF LOTS 1 AND 2 OF CSM 381, AND PART OF LOT 1 OF CSM 6784, AND PART OF LOTS 7 AND 8 OF WILDWOOD VILLAGE, AND PART OF THE SW1/4-SW1/4 AND THE SE1/4-SW1/4 OF SECTION 25, T22N, R15E, ALL IN THE VILLAGE OF HORTONVILLE, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

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Document #: 2087449
Date: 11-19-2016 Time: 03:09 PM
Pages: 1 Fee: $25.00
County: OUTAGAMIE COUNTY State: WI

SARAH R VAN CAMP, REGISTER OF DEEDS
This document has been electronically recorded and returned to:
WiDotNeRegionGreenbay

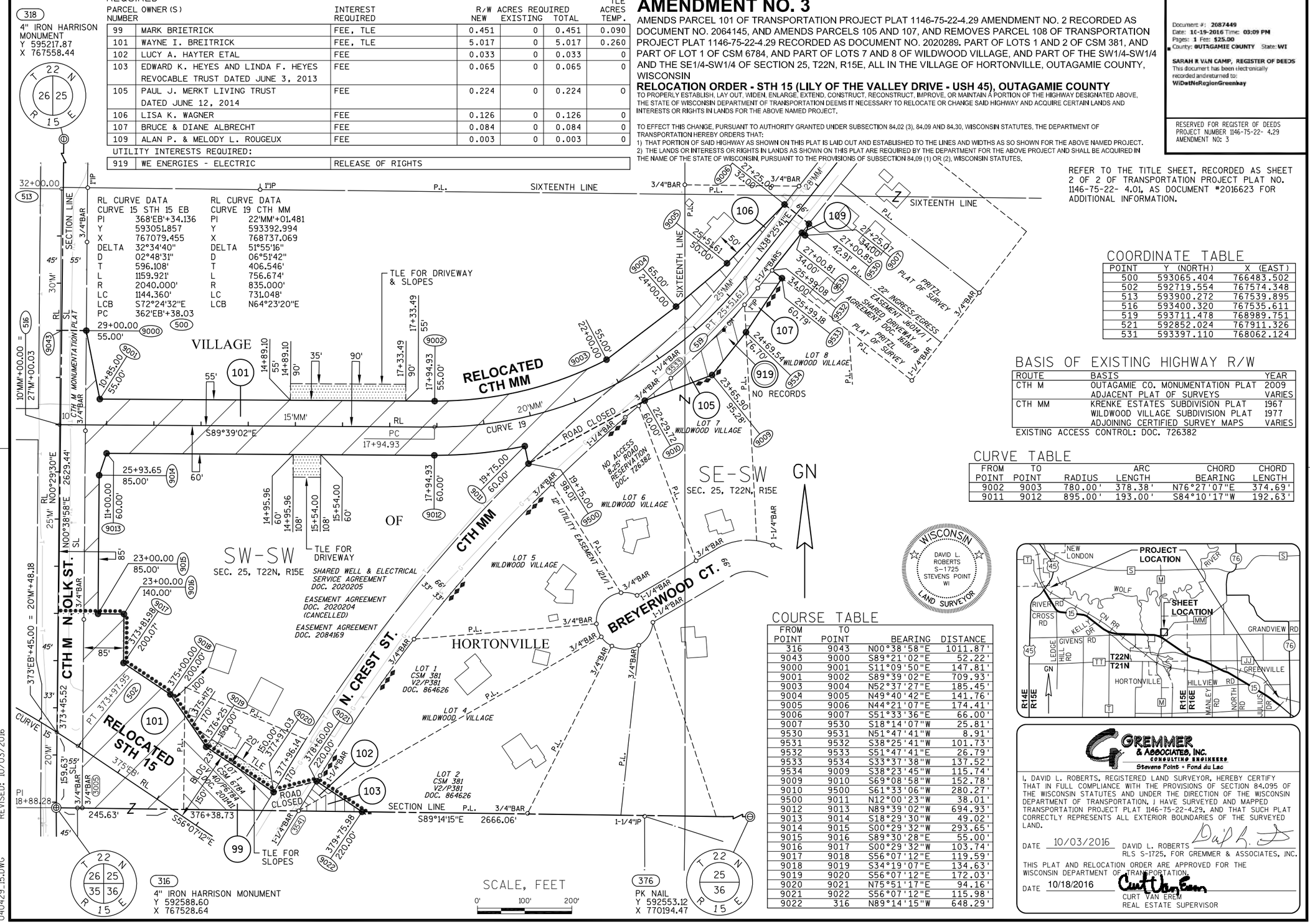
RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.29
AMENDMENT NO: 3

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO. 1146-75-22- 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
99	MARK BRIETRICK	FEE, TLE	0.451	0	0.451	0.090
101	WAYNE I. BREITRICK	FEE, TLE	5.017	0	5.017	0.260
102	LUCY A. HAYTER ETAL	FEE	0.033	0	0.033	0
103	EDWARD K. HEYES AND LINDA F. HEYES REVOCABLE TRUST DATED JUNE 3, 2013	FEE	0.065	0	0.065	0
105	PAUL J. MERKT LIVING TRUST DATED JUNE 12, 2014	FEE	0.224	0	0.224	0
106	LISA K. WAGNER	FEE	0.126	0	0.126	0
107	BRUCE & DIANE ALBRECHT	FEE	0.084	0	0.084	0
109	ALAN P. & MELODY L. ROUGEUX	FEE	0.003	0	0.003	0
UTILITY INTERESTS REQUIRED:						
919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS				



COORDINATE TABLE

POINT	Y (NORTH)	X (EAST)
500	593065.404	766483.502
502	592719.554	767574.348
513	593900.272	767539.895
516	593400.320	767535.611
519	593711.478	768989.751
521	592852.024	767911.326
531	593397.110	768062.124

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
CTH M	OUTAGAMIE CO. MONUMENTATION PLAT	2009
	ADJACENT PLAT OF SURVEYS	VARIES
CTH MM	KRENKE ESTATES SUBDIVISION PLAT	1967
	WILDWOOD VILLAGE SUBDIVISION PLAT	1977
	ADJOINING CERTIFIED SURVEY MAPS	VARIES

EXISTING ACCESS CONTROL: DOC. 726382

CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
9002	9003	780.00'	378.38'	N76°27'07"E	374.69'
9011	9012	895.00'	193.00'	S84°10'17"W	192.63'

COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
316	9043	N00°38'58"E	1011.87'
9043	9000	S89°21'02"E	52.22'
9000	9001	S11°09'50"E	147.81'
9001	9002	S89°39'02"E	709.93'
9003	9004	N52°37'27"E	185.45'
9004	9005	N49°40'42"E	141.76'
9005	9006	N44°21'07"E	174.41'
9006	9007	S51°33'36"E	66.00'
9007	9530	S18°14'07"W	25.81'
9530	9531	N51°47'41"W	8.91'
9531	9532	S38°25'41"W	101.73'
9532	9533	S51°47'41"E	26.79'
9533	9534	S33°37'38"W	137.52'
9534	9009	S38°23'45"W	115.74'
9009	9010	S69°08'58"W	152.78'
9010	9500	S61°33'06"W	280.27'
9500	9011	N12°00'23"W	38.01'
9012	9013	N89°39'02"W	694.93'
9013	9014	S18°29'30"W	49.02'
9014	9015	S00°29'32"W	293.65'
9015	9016	S89°30'28"E	55.00'
9016	9017	S00°29'32"W	103.74'
9017	9018	S56°07'12"E	119.59'
9018	9019	S34°19'07"E	134.63'
9019	9020	S56°07'12"E	172.03'
9020	9021	N75°51'17"E	94.16'
9021	9022	S56°07'12"E	115.98'
9022	316	N89°14'15"W	648.29'

WISCONSIN
DAVID L. ROBERTS
S-1725
STEVENS POINT WI
LAND SURVEYOR

GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, DAVID L. ROBERTS, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.29, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 10/03/2016 DAVID L. ROBERTS RLS S-1725, FOR GREMMER & ASSOCIATES, INC.

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

DATE 10/18/2016 CURT VAN EREM REAL ESTATE SUPERVISOR

040429.15.DWG REVISED: 10/03/2016

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.29 AMENDMENT NO. 2

AMENDS PARCEL 101 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.29 AMENDMENT NO. 1 RECORDED AS DOCUMENT NO. 2035594. PART OF LOTS 1 AND 2 OF CSM 381, AND PART OF LOT 1 OF CSM 6784, AND PART OF LOTS 7 AND 8 OF WILDWOOD VILLAGE, AND PART OF THE SW1/4-SW1/4 AND THE SE1/4-SW1/4 OF SECTION 25, T22N, R15E, ALL IN THE VILLAGE OF HORTONVILLE, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

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Document #: 2064145
Date: 01-21-2016 Time: 10:30 AM
Pages: 1 Fee: $25.00
County: OUTAGAMIE COUNTY State: WI

SARAH R VAN CAMP, REGISTER OF DEEDS
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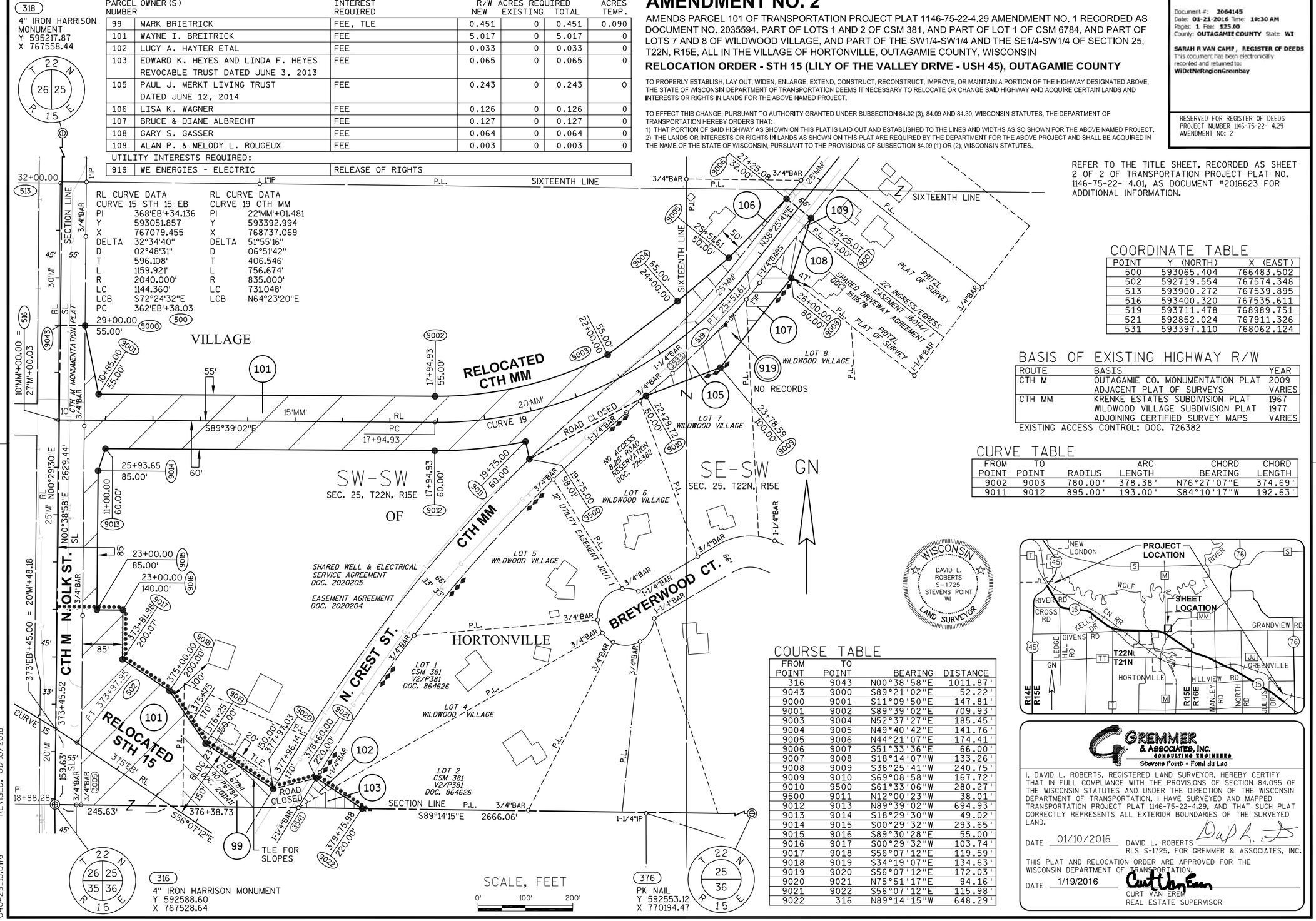
RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.29
AMENDMENT NO: 2

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO. 1146-75-22- 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

SCHEDULE OF LANDS & INTERESTS REQUIRED

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102	LUCY A. HAYTER ETAL	FEE	0.033	0	0.033	0
103	EDWARD K. HEYES AND LINDA F. HEYES REVOCABLE TRUST DATED JUNE 3, 2013	FEE	0.065	0	0.065	0
105	PAUL J. MERKT LIVING TRUST DATED JUNE 12, 2014	FEE	0.243	0	0.243	0
106	LISA K. WAGNER	FEE	0.126	0	0.126	0
107	BRUCE & DIANE ALBRECHT	FEE	0.127	0	0.127	0
108	GARY S. GASSER	FEE	0.064	0	0.064	0
109	ALAN P. & MELODY L. ROUGEUX	FEE	0.003	0	0.003	0
UTILITY INTERESTS REQUIRED:						
919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS				



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9009	9010	S69°08'58"W	167.72'
9010	9500	S61°33'06"W	280.27'
9500	9011	N12°00'23"W	38.01'
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WISCONSIN
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DATE 01/10/2016 DAVID L. ROBERTS
RLS S-1725, FOR GREMMER & ASSOCIATES, INC.

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

DATE 1/19/2016 CURT VAN EREM
REAL ESTATE SUPERVISOR

040429_15.DWG REVISED: 01/10/2016

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.29 AMENDMENT NO. 1

ADDS PARCEL 99 AND AMENDS PARCEL 101 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.29 RECORDED AS DOCUMENT NO. 2020289. PART OF LOTS 1 AND 2 OF CSM 381, AND PART OF LOT 1 OF CSM 6784, AND PART OF LOTS 7 AND 8 OF WILDWOOD VILLAGE, AND PART OF THE SW1/4-SW1/4 AND THE SE1/4-SW1/4 OF SECTION 25, T22N, R15E, ALL IN THE VILLAGE OF HORTONVILLE, OUTAGAMIE COUNTY, WISCONSIN

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Document #: 2035554
Date: 02-06-2015 Time: 09:16 AM
Pages: 1 Fee: $25.00
County: OUTAGAMIE COUNTY State: WI

SARAH R VANCAMP, REGISTER OF DEEDS
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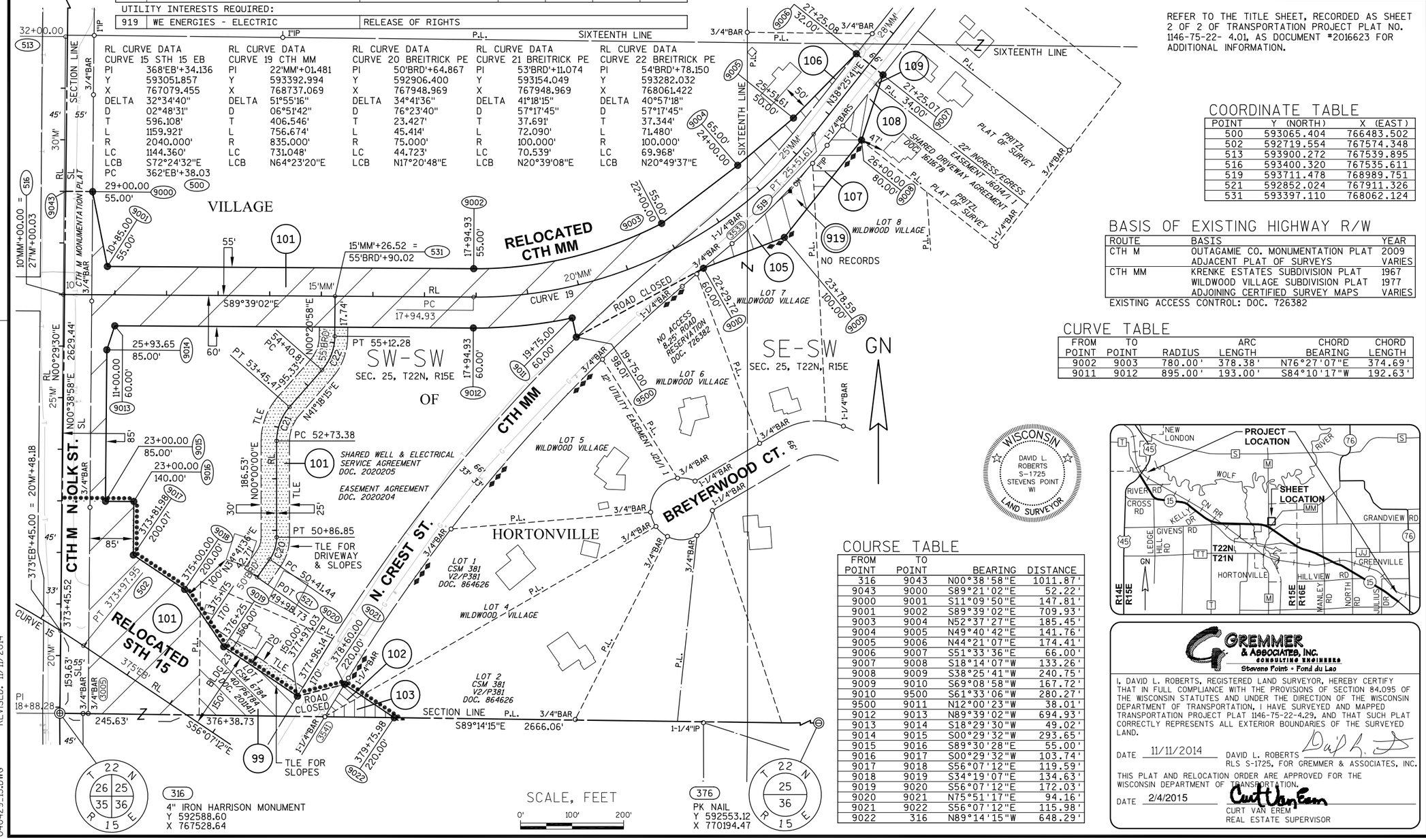
RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.29
AMENDMENT NO: 1

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO. 1146-75-22- 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

SCHEDULE OF LANDS & INTERESTS REQUIRED

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EXISTING ACCESS CONTROL: DOC. 726382

CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
9002	9003	780.00'	378.38'	N76°27'07"E	374.69'
9011	9012	895.00'	193.00'	S84°10'17"W	192.63'

COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
316	9043	N00°38'58"E	1011.87'
9043	9000	S89°21'02"E	52.22'
9000	9001	S11°09'50"E	147.81'
9001	9002	S89°39'02"E	709.93'
9003	9004	N52°37'27"E	185.45'
9004	9005	N49°40'42"E	141.76'
9005	9006	N44°21'07"E	174.41'
9006	9007	S51°33'36"E	66.00'
9007	9008	S18°14'07"W	133.26'
9008	9009	S38°25'41"W	240.75'
9009	9010	S69°08'58"W	167.72'
9010	9500	S61°33'06"W	280.27'
9500	9011	N12°00'23"W	38.01'
9012	9013	N89°39'02"W	694.93'
9013	9014	S18°29'30"W	49.02'
9014	9015	S00°29'32"W	293.65'
9015	9016	S89°30'28"E	55.00'
9016	9017	S00°29'32"W	103.74'
9017	9018	S56°07'12"E	119.59'
9018	9019	S34°19'07"E	134.63'
9019	9020	S56°07'12"E	172.03'
9020	9021	N75°51'17"E	94.16'
9021	9022	S56°07'12"E	115.98'
9022	316	N89°14'15"W	648.29'

WISCONSIN
DAVID L. ROBERTS
S-1725
STEVENS POINT WI
LAND SURVEYOR

GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, DAVID L. ROBERTS, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.29, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 11/11/2014 DAVID L. ROBERTS RLS S-1725, FOR GREMMER & ASSOCIATES, INC.

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

DATE 2/4/2015 CURT VAN EREM REAL ESTATE SUPERVISOR

040429_15.DWG REVISED: 11/11/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.29

PART OF LOTS 1 AND 2 OF CSM 381, AND PART OF LOT 1 OF CSM 6784, AND PART OF LOTS 7 AND 8 OF WILDWOOD VILLAGE, AND PART OF THE SW1/4-SW1/4 AND THE SE1/4-SW1/4 OF SECTION 25, T22N, R15E, ALL IN THE VILLAGE OF HORTONVILLE, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO. 1146-75-22- 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

Document #: 2020289
Date: 07-18-2014 Time: 12:34 PM Pages: 1
Fee: $25.00 County: OUTAGAMIE State: WI

SARAH R VAN CAMP
REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.29
AMENDMENT NO:

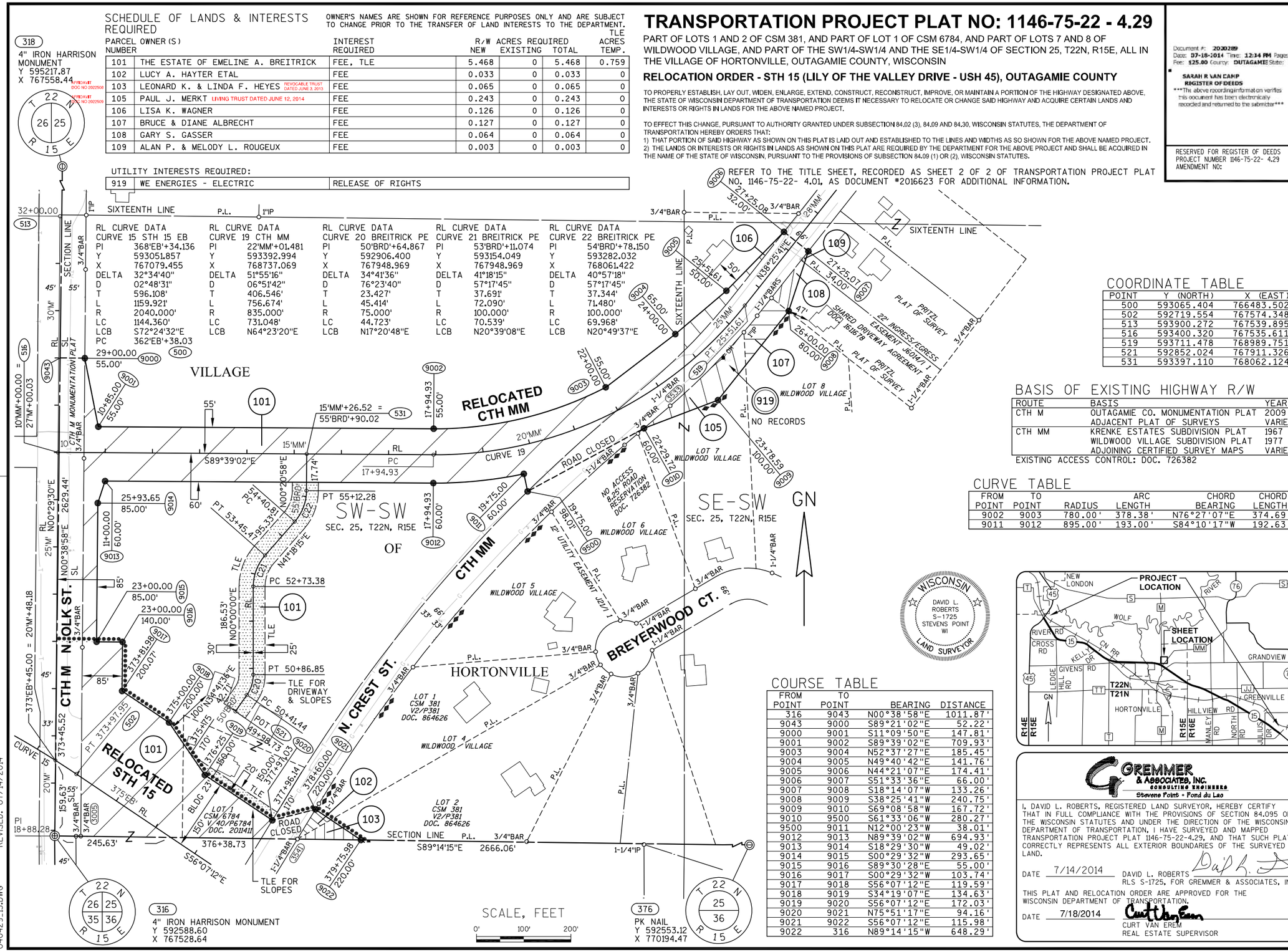
SCHEDULE OF LANDS & INTERESTS REQUIRED

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 ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
101	THE ESTATE OF EMELINE A. BREITRICK	FEE, TLE	5.468	0	5.468	0.759
102	LUCY A. HAYTER ETAL	FEE	0.033	0	0.033	0
103	LEONARD K. & LINDA F. HEYES REVOCABLE TRUST DATED JUNE 3, 2013	FEE	0.065	0	0.065	0
105	PAUL J. MERKT LIVING TRUST DATED JUNE 12, 2014	FEE	0.243	0	0.243	0
106	LISA K. WAGNER	FEE	0.126	0	0.126	0
107	BRUCE & DIANE ALBRECHT	FEE	0.127	0	0.127	0
108	GARY S. GASSER	FEE	0.064	0	0.064	0
109	ALAN P. & MELODY L. ROUGEUX	FEE	0.003	0	0.003	0

UTILITY INTERESTS REQUIRED:

919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS



COORDINATE TABLE

POINT	Y (NORTH)	X (EAST)
500	593065.404	766483.502
502	592719.554	767574.348
513	593900.272	767539.895
516	593400.320	767535.611
519	593711.478	768989.751
521	592852.024	767911.326
531	593397.110	768062.124

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
CTH M	OUTAGAMIE CO. MONUMENTATION PLAT	2009
	ADJACENT PLAT OF SURVEYS	VARIES
CTH MM	KRENKE ESTATES SUBDIVISION PLAT	1967
	WILDWOOD VILLAGE SUBDIVISION PLAT	1977
	ADJOINING CERTIFIED SURVEY MAPS	VARIES

EXISTING ACCESS CONTROL: DOC. 726382

CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
9002	9003	780.00'	378.38'	N76°27'07"E	374.69'
9011	9012	895.00'	193.00'	S84°10'17"W	192.63'

COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
316	9043	N00°38'58"E	1011.87'
9043	9000	S89°21'02"E	52.22'
9000	9001	S11°09'50"E	147.81'
9001	9002	S89°39'02"E	709.93'
9003	9004	N52°37'27"E	185.45'
9004	9005	N49°40'42"E	141.76'
9005	9006	N44°21'07"E	174.41'
9006	9007	S51°33'36"E	66.00'
9007	9008	S18°14'07"W	133.26'
9008	9009	S38°25'41"W	240.75'
9009	9010	S69°08'58"W	167.72'
9010	9500	S61°33'06"W	280.27'
9500	9011	N12°00'23"W	38.01'
9012	9013	N89°39'02"W	694.93'
9013	9014	S18°29'30"W	49.02'
9014	9015	S00°29'32"W	293.65'
9015	9016	S89°30'28"E	55.00'
9016	9017	S00°29'32"W	103.74'
9017	9018	S56°07'12"E	119.59'
9018	9019	S34°19'07"E	134.63'
9019	9020	S56°07'12"E	172.03'
9020	9021	N75°51'17"E	94.16'
9021	9022	S56°07'12"E	115.98'
9022	316	N89°14'15"W	648.29'

WISCONSIN
DAVID L. ROBERTS
S-1725
STEVENS POINT WI
LAND SURVEYOR

GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, DAVID L. ROBERTS, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.29, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 7/14/2014 DAVID L. ROBERTS
RLS S-1725, FOR GREMMER & ASSOCIATES, INC.

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

DATE 7/18/2014 CURT VAN EREM
REAL ESTATE SUPERVISOR

040429_15.DWG REVISED: 07/14/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.30 AMENDMENT NO. 2

ADDS PARCEL 97, AND AMENDS PARCEL 111 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.30 RECORDED AS DOCUMENT NO. 2019923. PART OF LOT 1 AND OUTLOT 1 OF CSM 7307, AND PART OF THE NW1/4-NW1/4 AND THE NE1/4-NW1/4 OF SECTION 36, T22N, R15E, IN THE VILLAGE OF HORTONVILLE, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

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County: OUTAGAMIE COUNTY State: WI

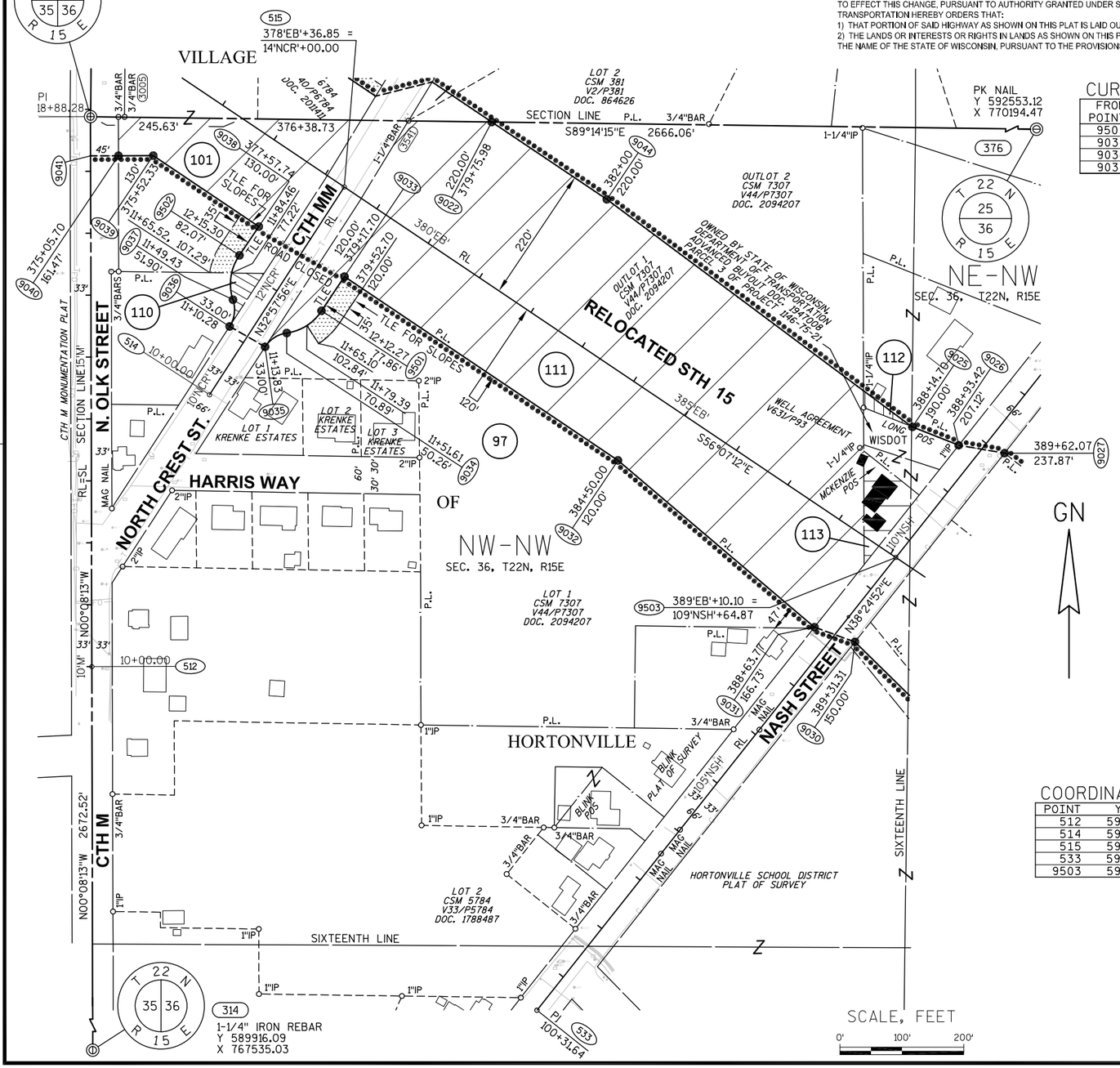
SARAH R VAN CAMP, REGISTER OF DEEDS
This document has been electronically recorded and returned to:
WiDotNeRegionGreenbay

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.30
AMENDMENT NO: 2

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW	ACRES REQUIRED EXISTING	TOTAL	TLE ACRES TEMP.
97	CARE PROPERTIES, LLC	TLE	0	0	0	0.086
101	THE ESTATE OF EMELINE A. BREITRICK	FEE, TLE	1.087	0	1.087	0.078
110	KEITH A. FINK	FEE	0.047	0	0.047	0
111	WAYNE I. BREITRICK	FEE	7.463	0	7.463	0
112	LARRY L. & JUDITH KLITZKE	FEE	0.025	0	0.025	0
113	RONALD & GERALDINE HOIER	FEE	0.260	0	0.260	0



CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
9501	9034	80.00'	68.74'	S57°26'23"W	66.64'
9034	9035	50.00'	42.84'	S57°30'36"W	41.54'
9036	9037	50.00'	44.97'	N07°11'53"E	43.47'
9037	9502	80.00'	75.18'	N08°21'15"E	72.45'

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO. 1146-75-22- 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

COURSE TABLE

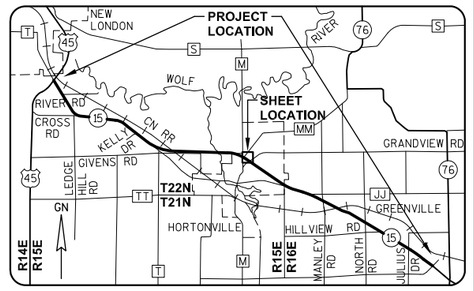
FROM POINT	TO POINT	BEARING	DISTANCE
316	9022	S89°14'15"E	648.29'
9022	9044	S56°07'12"E	224.02'
9044	9025	S53°19'34"E	615.43'
9025	9026	S68°23'09"E	80.58'
9026	9027	S80°14'59"E	75.22'
9027	9030	S38°24'52"W	389.08'
9030	9031	N70°02'08"W	69.58'
9031	9032	N49°40'35"W	416.41'
9032	9033	N56°07'12"W	532.30'
9033	9501	S33°52'48"W	66.46'
9035	9036	N60°06'28"W	66.10'
9502	9038	N33°52'48"E	55.99'
9038	9039	N56°07'12"W	205.40'
9039	9040	S89°51'47"W	56.26'
9040	9041	S89°51'47"W	45.00'
9041	316	N00°08'13"W	63.28'

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
NASH ST.	ADJOINING CERTIFIED SURVEY MAPS	VARIES
	ADJOINING PLAT OF SURVEYS	VARIES
	WILDWOOD VILLAGE SUBDIVISION PLAT	1977
CTH MM	KRENKE ESTATES SUBDIVISION PLAT	1967

COORDINATE TABLE

POINT	Y (NORTH)	X (EAST)
512	591700.326	767530.763
514	592139.292	767721.074
515	592474.889	767938.725
533	591145.381	768249.892
9503	591876.599	768829.749



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, DAVID L. ROBERTS, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.30, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 3/14/2017 DAVID L. ROBERTS RLS S-1725, FOR GREMMER & ASSOCIATES, INC.

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

DATE 3/14/2017 CURT VAN EREM REAL ESTATE SUPERVISOR

WISCONSIN DAVID L. ROBERTS S-1725 STEVENS POINT WI LAND SURVEYOR

040430_15.DWG REVISED: 03/14/2017

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.30 AMENDMENT NO. 1

AMENDS PARCEL 113 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.30 RECORDED AS DOCUMENT NO. 2019923. PART OF THE NW1/4-NW1/4 AND THE NE1/4-NW1/4 OF SECTION 36, T22N, R15E, IN THE VILLAGE OF HORTONVILLE, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

Document #: **2037649**
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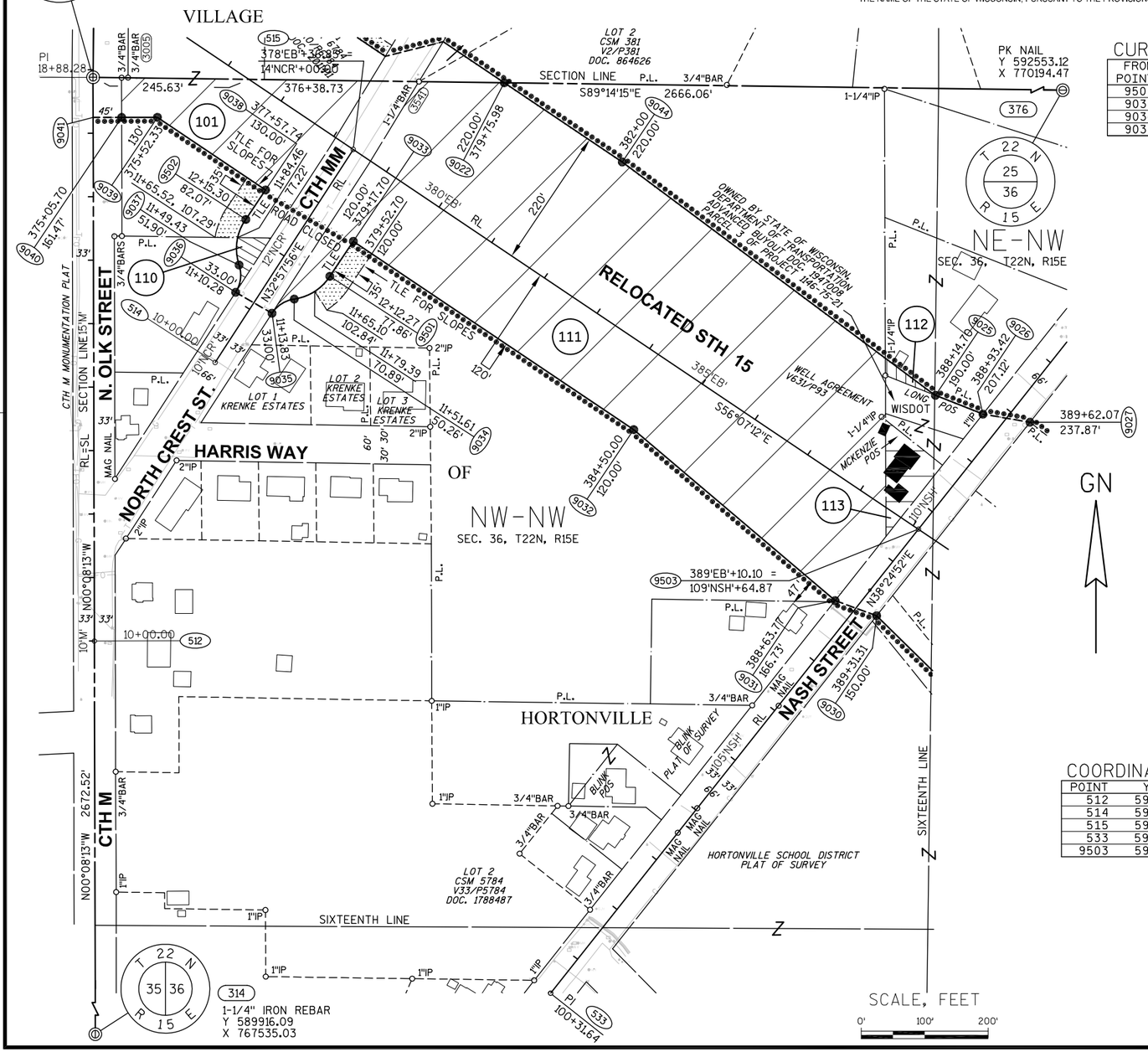
SARAH R VAN CAMP , REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.30
AMENDMENT NO: 1

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 ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
101	THE ESTATE OF EMELINE A. BREITRICK	FEE, TLE	1.087	0	1.087	0.078
110	KEITH A. FINK	FEE	0.047	0	0.047	0
111	THE ESTATE OF EMELINE A. BREITRICK	FEE, TLE	7.442	0	7.442	0.086
112	LARRY L. & JUDITH KLITZKE	FEE	0.025	0	0.025	0
113	RONALD & GERALDINE HOIER	FEE	0.260	0	0.260	0



CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
9501	9034	80.00'	68.74'	S57°26'23"W	66.64'
9034	9035	50.00'	42.84'	S57°30'36"W	41.54'
9036	9037	50.00'	44.97'	N07°11'53"E	43.47'
9037	9502	80.00'	75.18'	N08°21'15"E	72.45'

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO. 1146-75-22- 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

COURSE TABLE

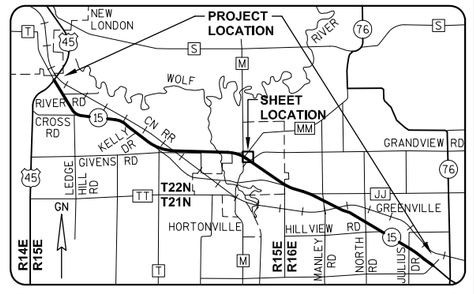
FROM POINT	TO POINT	BEARING	DISTANCE
316	9022	S89°14'15"E	648.29'
9022	9044	S56°07'12"E	224.02'
9044	9025	S53°19'34"E	615.43'
9025	9026	S68°23'09"E	80.58'
9026	9027	S80°14'59"E	75.22'
9027	9030	S38°24'52"W	389.08'
9030	9031	N70°02'08"W	69.58'
9031	9032	N49°40'35"W	416.41'
9032	9033	N56°07'12"W	532.30'
9033	9501	S33°52'48"W	66.46'
9035	9036	N60°06'28"W	66.10'
9502	9038	N33°52'48"E	55.99'
9038	9039	N56°07'12"W	205.40'
9039	9040	S89°51'47"W	56.26'
9040	9041	S89°51'47"W	45.00'
9041	316	N00°08'13"W	63.28'

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
NASH ST.	ADJOINING CERTIFIED SURVEY MAPS	VARIES
	ADJOINING PLAT OF SURVEYS	VARIES
	WILDWOOD VILLAGE SUBDIVISION PLAT	1977
CTH MM	KRENKE ESTATES SUBDIVISION PLAT	1967

COORDINATE TABLE

POINT	Y (NORTH)	X (EAST)
512	591700.326	767530.763
514	592139.292	767721.074
515	592474.889	767938.725
533	591145.381	768249.892
9503	591876.599	768829.749



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, DAVID L. ROBERTS, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.30, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 3/05/2015 DAVID L. ROBERTS RLS S-1725, FOR GREMMER & ASSOCIATES, INC.

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

DATE 3/05/2015 CURT VAN EREM REAL ESTATE SUPERVISOR

WISCONSIN DAVID L. ROBERTS S-1725 STEVENS POINT WI LAND SURVEYOR

040430_15.DWG REVISED: 03/05/2015

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.30

PART OF THE NW1/4-NW1/4 AND THE NE1/4-NW1/4 OF SECTION 36, T22N, R15E, IN THE VILLAGE OF HORTONVILLE, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.30
AMENDMENT NO:

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO. 1146-75-22- 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
101	THE ESTATE OF EMELINE A. BREITRICK	FEE, TLE	1.087	0	1.087	0.078
110	KEITH A. FINK	FEE	0.047	0	0.047	0
111	THE ESTATE OF EMELINE A. BREITRICK	FEE, TLE	7.442	0	7.442	0.086
112	LARRY L. & JUDITH KLITZKE	FEE	0.025	0	0.025	0
113	RONALD & GERALDINE HOIER	FEE	~~0.188~~	0	~~0.188~~	0

CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
9501	9034	80.00'	68.74'	S57°26'23"W	66.64'
9034	9035	50.00'	42.84'	S57°30'36"W	41.54'
9036	9037	50.00'	44.97'	N07°11'53"E	43.47'
9037	9502	80.00'	75.18'	N08°21'15"E	72.45'

COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
316	9022	S89°14'15"E	648.29'
9022	9044	S56°07'12"E	224.02'
9044	9025	S53°19'34"E	615.43'
9025	9026	S68°23'09"E	80.58'
9026	9027	S80°14'59"E	75.22'
9027	9030	S38°24'52"W	389.08'
9030	9031	N70°02'08"W	69.58'
9031	9032	N49°40'35"W	416.41'
9032	9033	N56°07'12"W	532.30'
9033	9501	S33°52'48"W	66.46'
9035	9036	N60°06'28"W	66.10'
9502	9038	N33°52'48"E	55.99'
9038	9039	N56°07'12"W	205.40'
9039	9040	S89°51'47"W	56.26'
9040	9041	S89°51'47"W	45.00'
9041	316	N00°08'13"W	63.28'

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
NASH ST.	ADJOINING CERTIFIED SURVEY MAPS	VARIES
	ADJOINING PLAT OF SURVEYS	VARIES
	WILDWOOD VILLAGE SUBDIVISION PLAT	1977
CTH MM	KRENKE ESTATES SUBDIVISION PLAT	1967

COORDINATE TABLE

POINT	Y (NORTH)	X (EAST)
512	591700.326	767530.763
514	592139.292	767721.074
515	592474.889	767938.725
533	591145.381	768249.892
9503	591876.599	768829.749

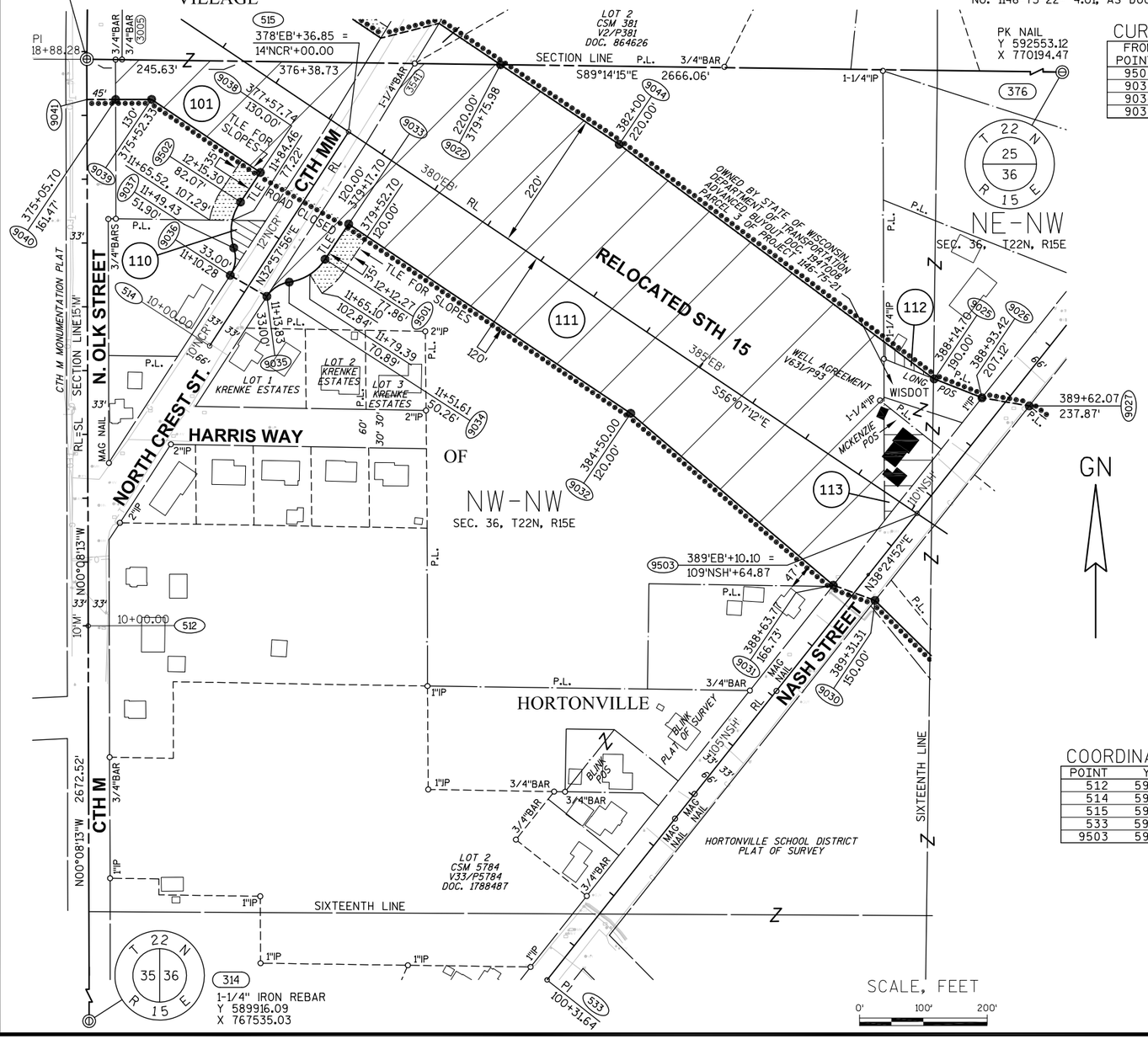
316
4" IRON HARRISON MONUMENT
Y 592588.60
X 767528.64

T 22 N, R 15 E: 26, 25, 35, 36

314
1-1/4" IRON REBAR
Y 589916.09
X 767535.03

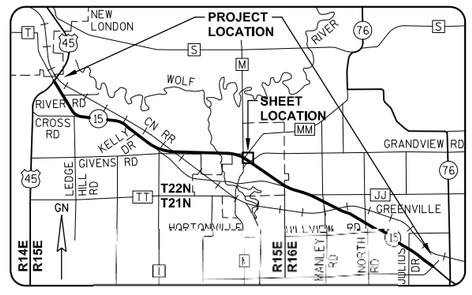
T 22 N, R 15 E: 35, 36

PK NAIL
Y 592553.12
X 770194.47



GN

SCALE, FEET
0' 100' 200'



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, DAVID L. ROBERTS, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.30, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 7/08/2014 DAVID L. ROBERTS RLS S-1725, FOR GREMMER & ASSOCIATES, INC.

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

DATE 7/09/2014 CURT VAN EREM REAL ESTATE SUPERVISOR

WISCONSIN DAVID L. ROBERTS S-1725 STEVENS POINT WI LAND SURVEYOR

040430_15.DWG REVISED: 07/08/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.31

PART OF THE NE1/4-NW1/4 AND THE NW1/4-NW1/4 OF SECTION 36, T22N, R15E, IN THE VILLAGE OF HORTONVILLE, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO. 1146-75-22- 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

Document #: **2019934**
Date: **07-15-2014** Time: **08:28 AM** Pages: **1**
Fee: **$25.00** County: **OUTAGAMIE** State: **WI**

SARAH R VAN CAMP
REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.31
AMENDMENT NO:

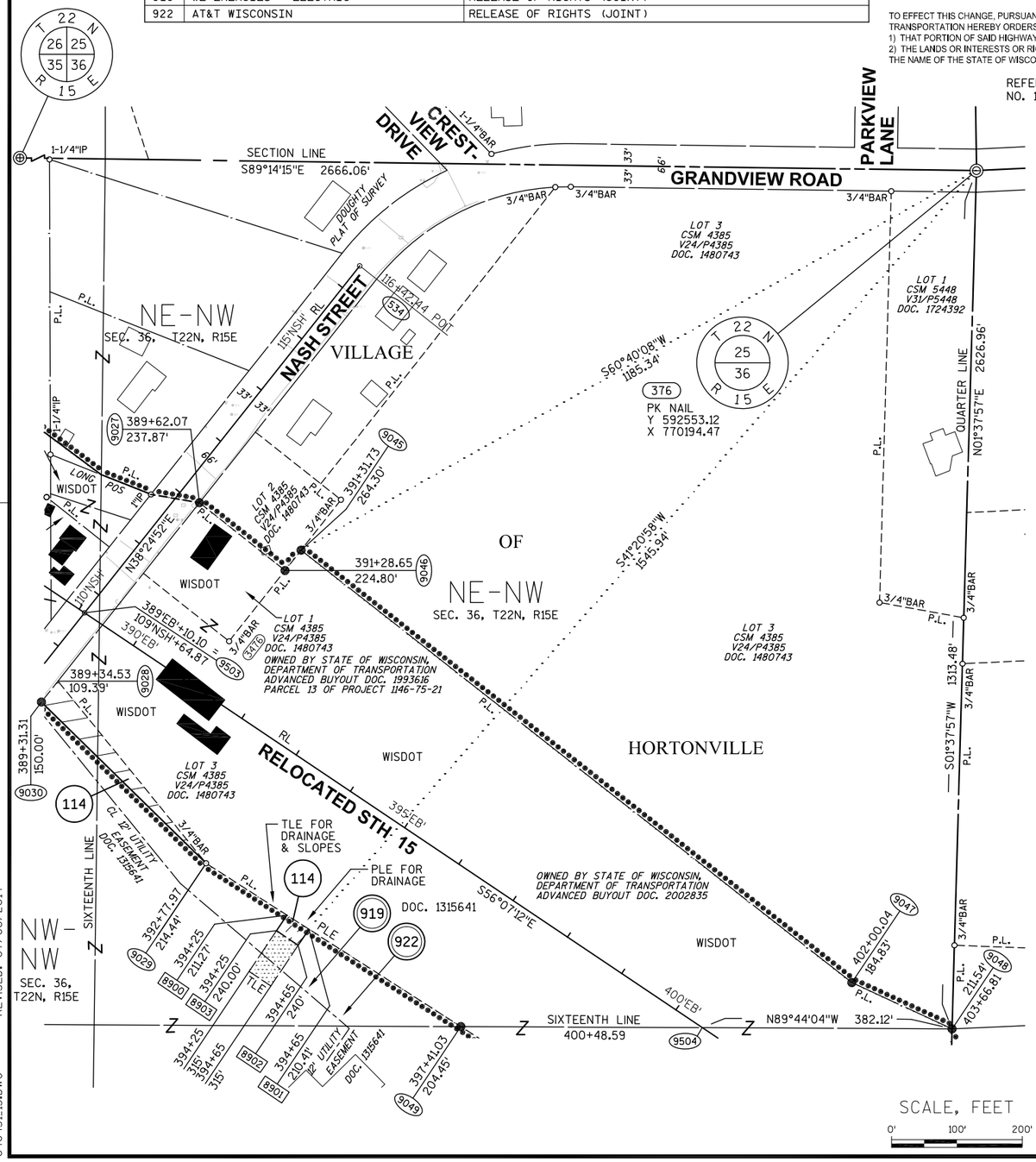
SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW	ACRES REQUIRED EXISTING	TOTAL	PLE ACRES PERM.	TLE ACRES TEMP.
114	THE SCHOOL DISTRICT OF HORTONVILLE	FEE, PLE, TLE	0.164	0	0.164	0.027	0.069

UTILITY INTERESTS REQUIRED:

919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS (JOINT)
922	AT&T WISCONSIN	RELEASE OF RIGHTS (JOINT)



BASIS OF EXISTING HIGHWAY R/W

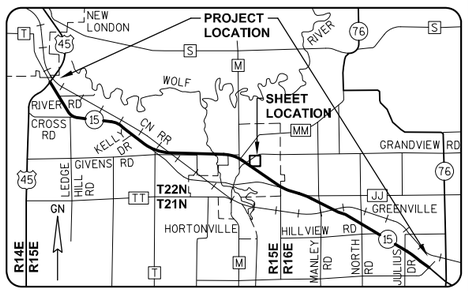
ROUTE	BASIS	YEAR
NASH ST.	ADJOINING CERTIFIED SURVEY MAPS	VARIES
	ADJOINING PLAT OF SURVEYS	VARIES
	WILDWOOD VILLAGE SUBDIVISION PLAT	1977

COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
376	9045	S60°40'08"W	1185.34'
9045	9047	S51°51'57"E	1071.26'
9047	9048	S65°13'06"E	168.90'
9048	9049	N89°44'04"W	751.43'
9049	9029	N57°21'23"W	463.17'
9029	9030	N45°35'21"W	352.60'
9030	9027	N38°24'52"E	389.08'
9027	9046	S51°38'12"E	167.09'
9046	9045	N38°20'42"E	39.62'
376	8901	S41°20'58"W	1545.94'
8901	8902	S33°52'48"W	29.59'
8902	8903	N56°07'12"W	40.00'
8903	8900	N33°52'48"E	28.73'
8900	8901	S57°21'23"E	40.01'

COORDINATE TABLE

POINT	Y (NORTH)	X (EAST)
534	592407.500	769250.755
9503	591876.599	768829.749
9504	591241.945	769774.929



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, DAVID L. ROBERTS, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.31, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 7/08/2014 DAVID L. ROBERTS RLS S-1725, FOR GREMMER & ASSOCIATES, INC.

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

DATE 7/09/2014 CURT VAN EREM REAL ESTATE SUPERVISOR

WISCONSIN
DAVID L. ROBERTS
S-1725
STEVENS POINT
WI
LAND SURVEYOR

040431_15.DWG REVISED: 07/08/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.32

PART OF THE SE1/4-NW1/4 OF SECTION 36, T22N, R15E, IN THE VILLAGE OF HORTONVILLE, OUTAGAMIE COUNTY, WISCONSIN

STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

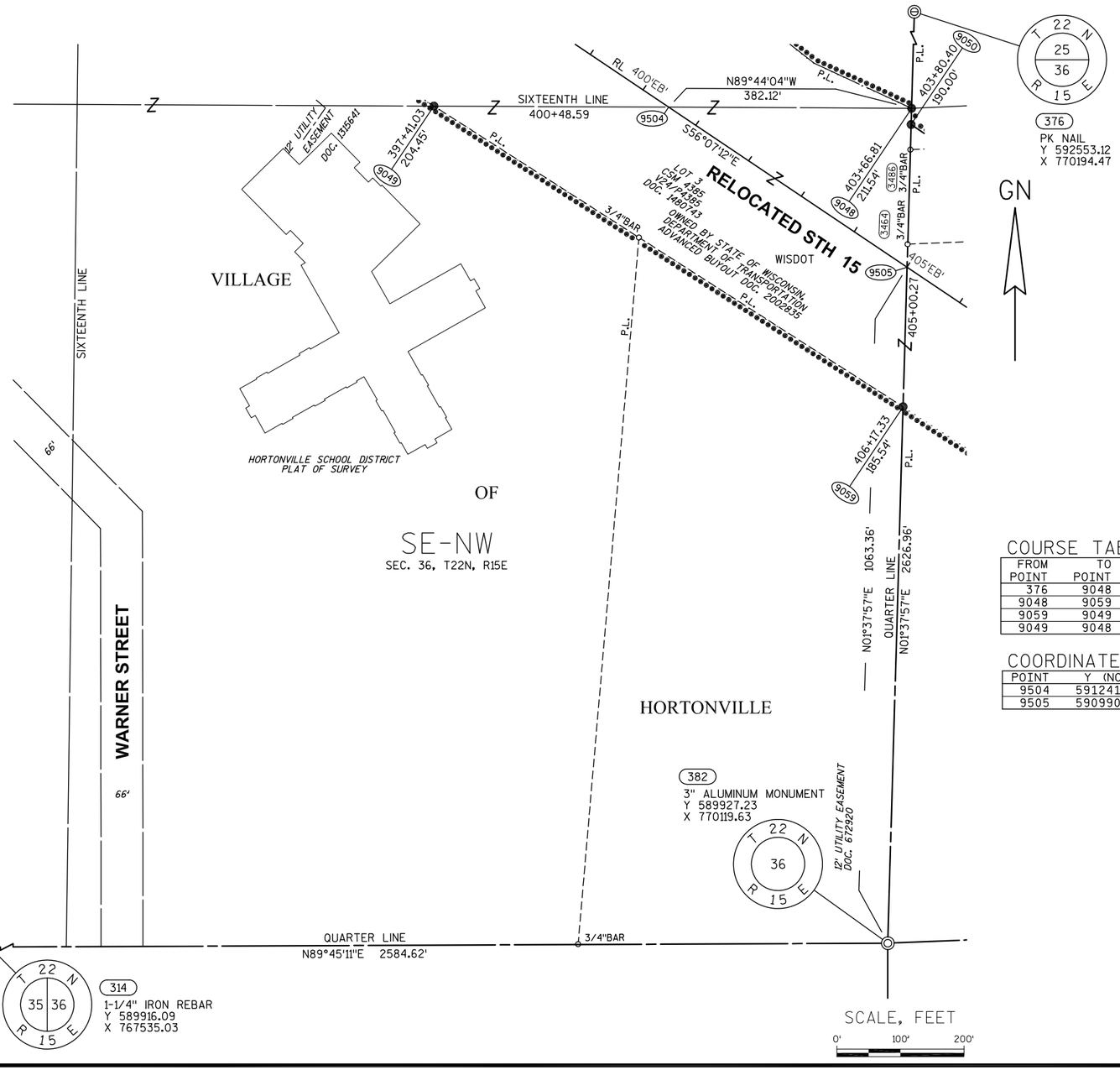
THE STATE OF WISCONSIN HAS DEEMED IT NECESSARY TO MONUMENT RIGHT-OF-WAY INTERESTS PREVIOUSLY ACQUIRED UNDER SECTIONS 82.01, 82.31(1), 82.31(2), AND 84.09 OF THE WISCONSIN STATE STATUTES AND DOES HEREBY CERTIFY THE DEPARTMENT OF TRANSPORTATION HAS SURVEYED THE HIGHWAY RIGHT-OF-WAY; THAT THIS PLAT IS A TRUE AND CORRECT REPRESENTATION OF THE EXTERIOR BOUNDARIES OF THE LAND SURVEYED AND SHOWS ACCURATE MEASUREMENTS THEREOF.

Document #: **2019525**
Date: **07-15-2014** Time: **08:30 AM** Pages: **1**
Fee: **$25.00** County: **OUTAGAMIE** State: **WI**

SARAH R VAN CAMP
REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.32
AMENDMENT NO:

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO. 1146-75-22- 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.



REVISED: 07/08/2014

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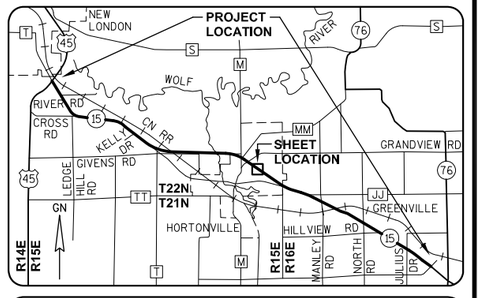
APPRAISAL PLAT DATE:

COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
376	9048	S01°37'57"W	1313.48'
9048	9059	S01°37'57"W	469.50'
9059	9049	N57°21'23"W	876.50'
9049	9048	S89°44'04"E	751.43'

COORDINATE TABLE

POINT	Y (NORTH)	X (EAST)
9504	591241.945	769774.929
9505	590990.152	770149.921



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, DAVID L. ROBERTS, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.32, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 7/08/2014 DAVID L. ROBERTS RLS S-1725, FOR GREMMER & ASSOCIATES, INC.

THIS PLAT IS APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 7/09/2014 CURT VAN EREM
REAL ESTATE SUPERVISOR

WISCONSIN
DAVID L. ROBERTS
S-1725
STEVENS POINT
WI
LAND SURVEYOR

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.33

PART OF LOT 2 AND OUTLOT 1 OF CSM 4387, AND PART OF THE SW1/4-NE1/4 AND THE NW1/4-SE1/4 OF SECTION 36, T22N, R15E, ALL IN THE VILLAGE OF HORTONVILLE, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO. 1146-75-22- 4.01, AS DOCUMENT *2016623 FOR ADDITIONAL INFORMATION.

Document #: **2019926**
Date: **07-15-2014** Time: **08:31 AM** Pages: **1**
Fee: **$25.00** County: **OUTAGAMIE** State: **WI**

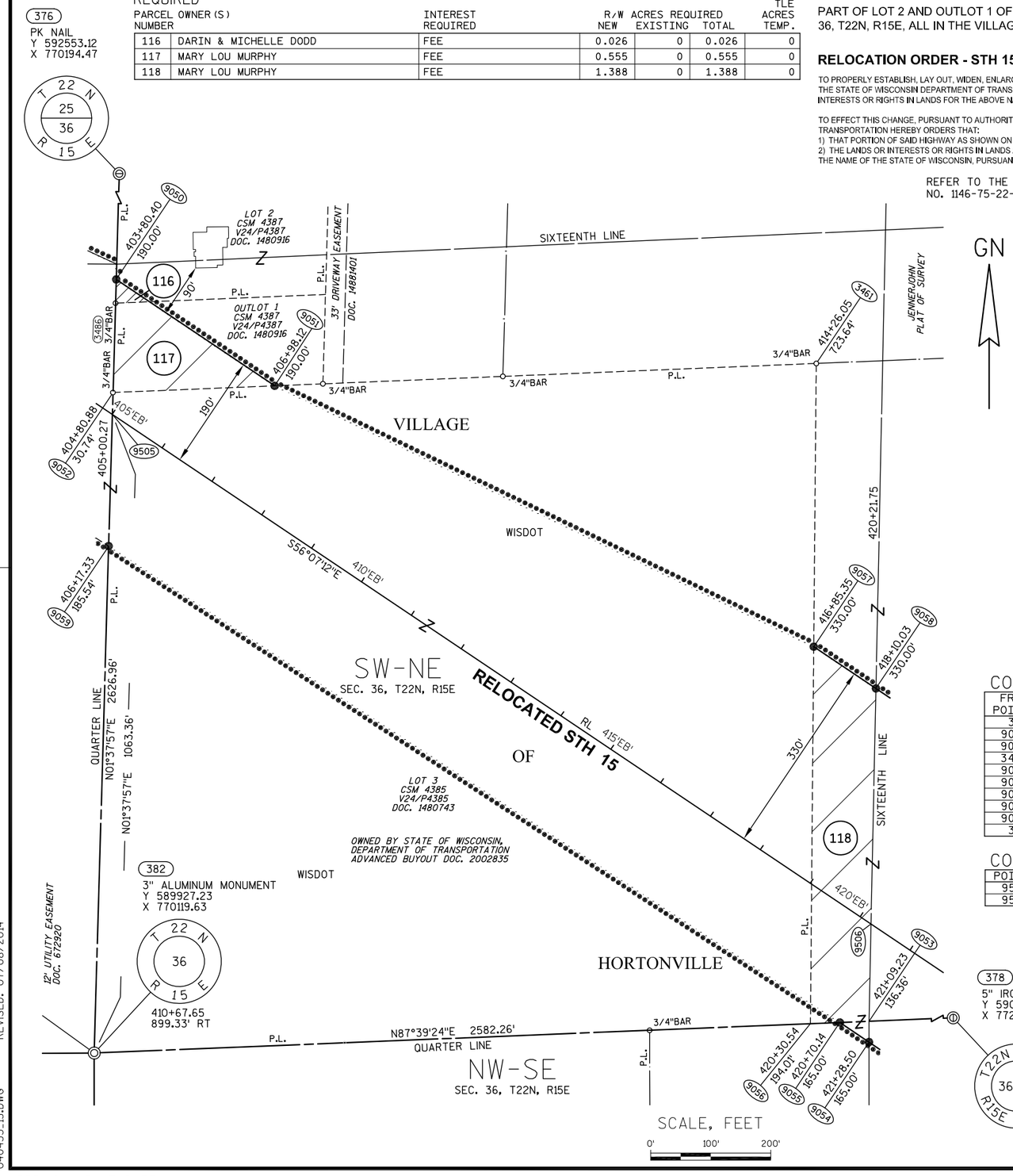
SARAH R VAN CAMP
REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.33
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 ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
116	DARIN & MICHELLE DODD	FEE	0.026	0	0.026	0
117	MARY LOU MURPHY	FEE	0.555	0	0.555	0
118	MARY LOU MURPHY	FEE	1.388	0	1.388	0

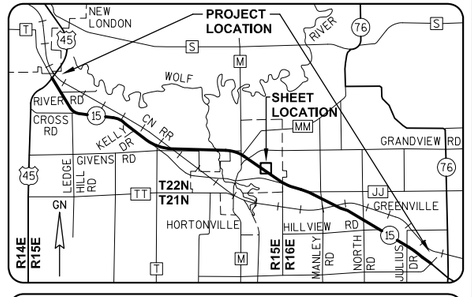


COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
376	9050	S01°37'57"W	1338.95'
9050	9051	S56°07'12"E	317.72'
9051	3461	N87°38'06"E	902.57'
3461	9057	S00°30'19"W	471.37'
9057	9058	S56°07'12"E	124.67'
9058	9053	S01°11'48"W	554.09'
9053	9054	S00°03'19"E	34.52'
9054	9055	N56°07'12"W	58.37'
9055	382	S87°39'24"W	1242.67'
382	9050	N01°37'57"E	1288.01'

COORDINATE TABLE

POINT	Y (NORTH)	X (EAST)
9505	590990.152	770149.921
9506	590142.000	771413.060



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, DAVID L. ROBERTS, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.33, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 7/08/2014 DAVID L. ROBERTS RLS S-1725, FOR GREMMER & ASSOCIATES, INC.

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

DATE 7/09/2014 CURT VAN EREM REAL ESTATE SUPERVISOR

WISCONSIN
DAVID L. ROBERTS
S-1725
STEVENS POINT
WI
LAND SURVEYOR

040433_15.DWG REVISED: 07/08/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.34 AMENDMENT NO: 1

AMENDS PARCEL 119 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.34, RECORDED AS DOCUMENT #2019927. PART OF THE SE1/4-NE1/4 AND THE NE1/4-SE1/4 OF SECTION 36, T22N, R15E, ALL IN THE VILLAGE OF HORTONVILLE, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

Document #: 2035595
Date: 02-04-2015 Time: 09:16 AM
Pages: 1 Fee: $25.00
County: OUTAGAMIE COUNTY State: WI

SARAH R VAN CAMP, REGISTER OF DEEDS
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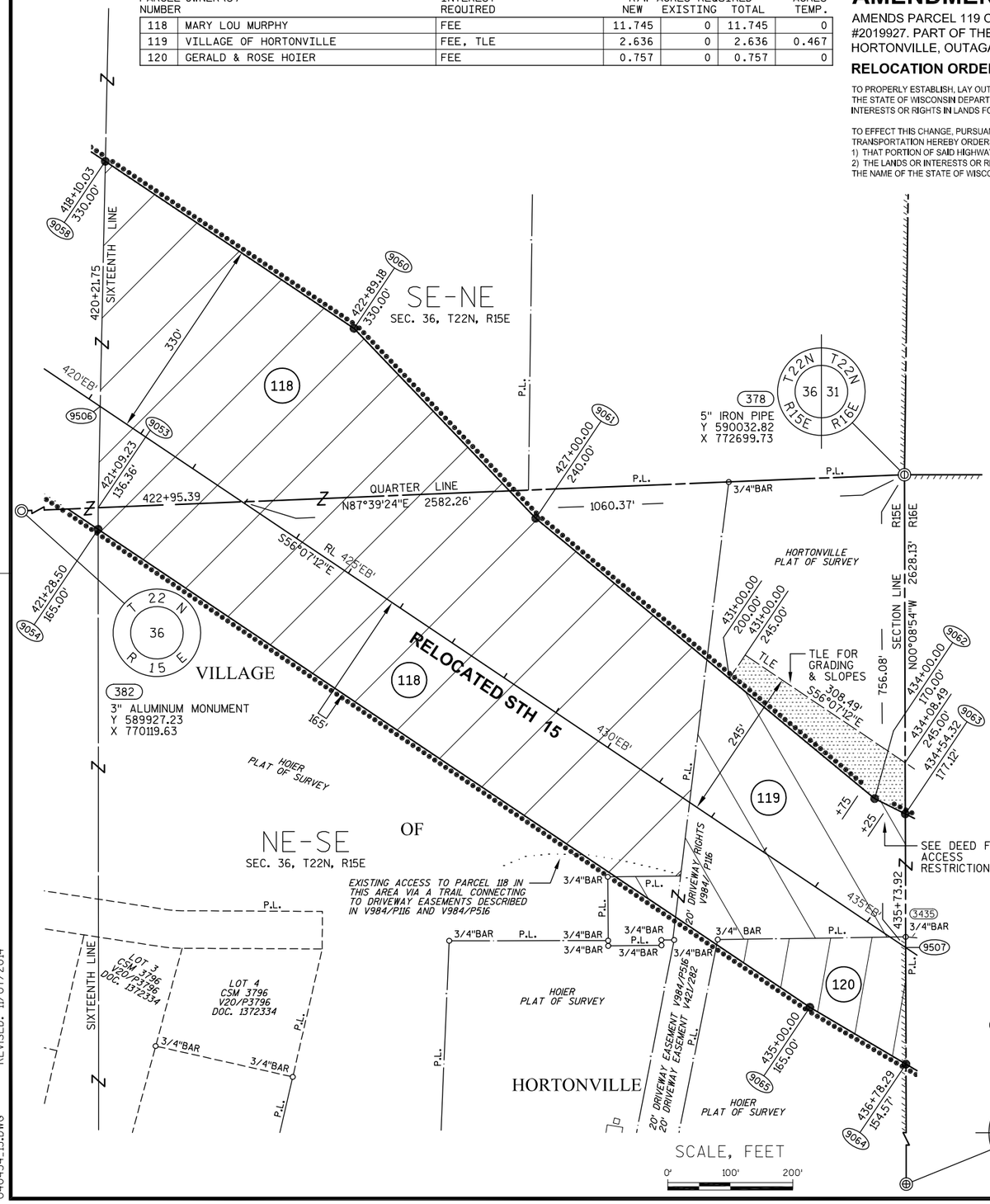
RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.34
AMENDMENT NO: 1

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO. 1146-75-22- 4.01, AS DOCUMENT *2016623 FOR ADDITIONAL INFORMATION.

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
118	MARY LOU MURPHY	FEE	11.745	0	11.745	0
119	VILLAGE OF HORTONVILLE	FEE, TLE	2.636	0	2.636	0.467
120	GERALD & ROSE HOIER	FEE	0.757	0	0.757	0



COURSE TABLE

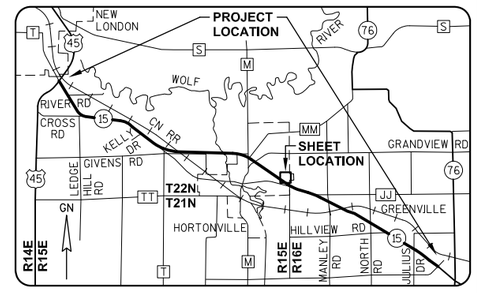
FROM POINT	TO POINT	BEARING	DISTANCE
378	9063	S00°08'54"E	542.37'
9063	9064	S00°08'54"E	400.22'
9064	9065	N59°28'01"W	178.59'
9065	9054	N56°07'12"W	1371.50'
9054	9053	N00°03'19"W	34.52'
9053	9058	N01°11'48"E	554.09'
9058	9060	S56°07'12"E	479.15'
9060	9061	S43°45'48"E	420.57'
9061	9062	S50°24'34"E	703.49'
9062	9063	S63°34'56"E	54.79'

COORDINATE TABLE

POINT	Y (NORTH)	X (EAST)
9506	590142.000	771413.060
9507	589276.735	772701.685

362
MAG NAIL & WASHER
Y 587404.70
X 772706.53

T22N R16E
36 31
1 6
R15E T21N



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, DAVID L. ROBERTS, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.34, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 11/07/2014 DAVID L. ROBERTS
RLS S-1725, FOR GREMMER & ASSOCIATES, INC.

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

DATE 2/4/2015 CURT VAN EREM
REAL ESTATE SUPERVISOR

WISCONSIN
DAVID L. ROBERTS
S-1725
STEVENS POINT WI
LAND SURVEYOR

040434_15.DWG REVISED: 11/07/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.34

PART OF THE SE1/4-NE1/4 AND THE NE1/4-SE1/4 OF SECTION 36, T22N, R15E, ALL IN THE VILLAGE OF HORTONVILLE, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO. 1146-75-22- 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

Document #: **3019927**
Date: **07-15-2014** Time: **08:33 AM** Pages: **1**
Fee: **$25.00** County: **OUTAGAMIE** State: **WI**

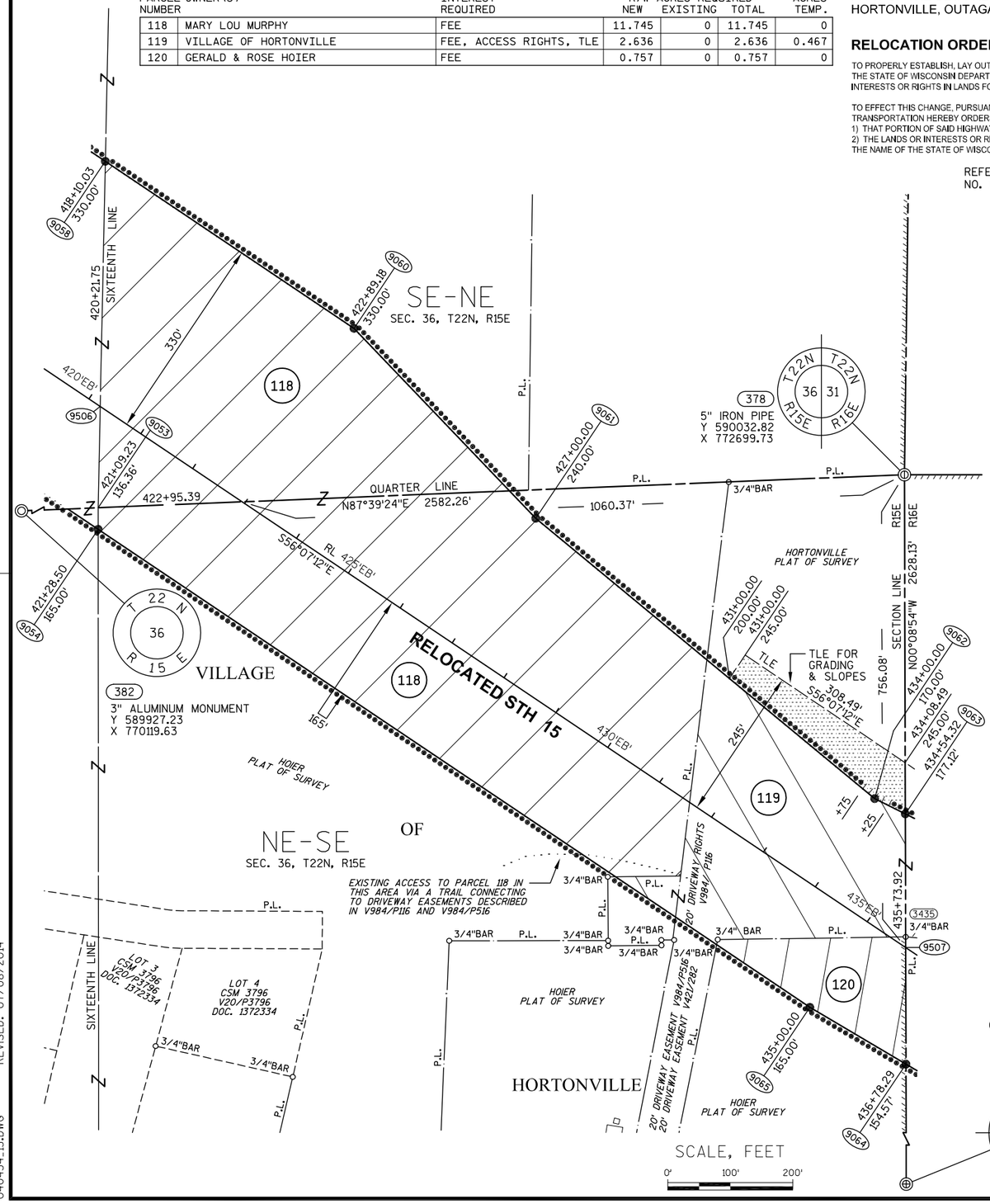
SARAH R VAN CAMP
REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.34
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 ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
118	MARY LOU MURPHY	FEE	11.745	0	11.745	0
119	VILLAGE OF HORTONVILLE	FEE, ACCESS RIGHTS, TLE	2.636	0	2.636	0.467
120	GERALD & ROSE HOIER	FEE	0.757	0	0.757	0

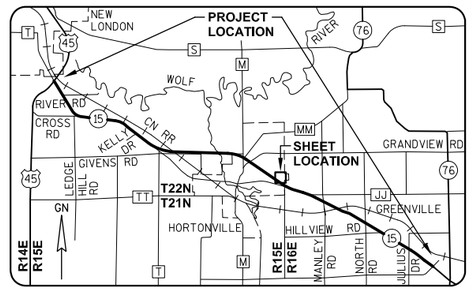


COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
378	9063	S00°08'54"E	542.37'
9063	9064	S00°08'54"E	400.22'
9064	9065	N59°28'01"W	178.59'
9065	9054	N56°07'12"W	1371.50'
9054	9053	N00°03'19"W	34.52'
9053	9058	N01°11'48"E	554.09'
9058	9060	S56°07'12"E	479.15'
9060	9061	S43°45'48"E	420.57'
9061	9062	S50°24'34"E	703.49'
9062	9063	S63°34'56"E	54.79'

COORDINATE TABLE

POINT	Y (NORTH)	X (EAST)
9506	590142.000	771413.060
9507	589276.735	772701.685



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, DAVID L. ROBERTS, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.34, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 7/08/2014 DAVID L. ROBERTS
RLS S-1725, FOR GREMMER & ASSOCIATES, INC.

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

DATE 7/09/2014 CURT VAN EREM
REAL ESTATE SUPERVISOR

WISCONSIN
DAVID L. ROBERTS
S-1725
STEVENS POINT
WI
LAND SURVEYOR

040434_15.DWG REVISED: 07/08/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.35 AMENDMENT NO. 1

AMENDS PARCEL 124 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.35 RECORDED AS DOCUMENT NO. 2019928. PART OF LOTS 1 AND 2 OF CSM 5287, AND PART OF THE FRACTIONAL NW1/4-SW1/4 AND THE FRACTIONAL SW1/4-SW1/4 OF SECTION 31, T22N, R16E, IN THE TOWN OF ELLINGTON; AND PART OF THE FRACTIONAL NW1/4-SW1/4 OF SECTION 31, T22N, R16E IN THE VILLAGE OF HORTONVILLE; ALL IN OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

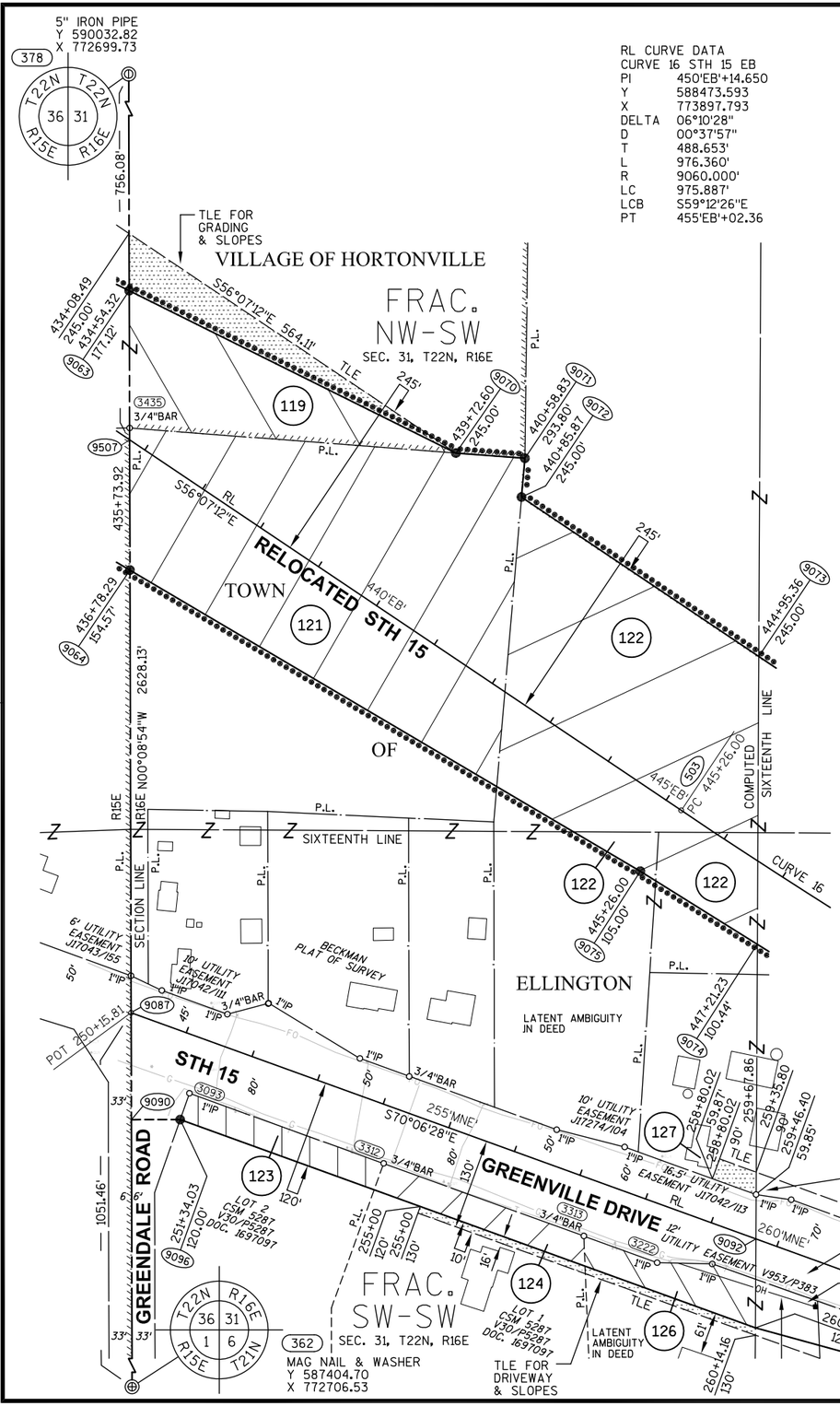
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

Document #: **2046215**
Date: **06-16-2015** Time: **10:27 AM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP , REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.35
AMENDMENT NO: 1



RL CURVE DATA
CURVE 16 STH 15 EB

PI	450'EB'+14.650
Y	588473.593
X	773897.793
DELTA	06°10'28"
D	00°37'57"
T	488.653'
L	976.360'
R	9060.000'
LC	975.887'
LCB	S59°12'26"E
PT	455'EB'+02.36

GN

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO. 1146-75-22- 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
119	VILLAGE OF HORTONVILLE	FEE, TLE	1.056	0	1.056	0.440
121	ALVIN H. LEMKE	FEE	4.302	0	4.302	0
122	ARNOLD J. & MARY S. WEYERS	FEE	3.469	0	3.469	0
123	PATRICK & DAWN McNICHOLS	FEE	0.271	0	0.271	0
124	COMMUNITY FIRST CREDIT UNION	FEE, TLE	0.287	0	0.287	0.058
126	DON E. PARKER	FEE, TLE	0.301	0	0.301	0.060
127	ALVIN H. LEMKE JR.	TLE	0	0	0	0.042

UTILITY INTERESTS REQUIRED:

919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
922	AT&T WISCONSIN	RELEASE OF RIGHTS

COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
378	9063	S00°08'54"E	542.37'
9063	9070	S63°34'56"E	522.70'
9070	9071	S85°37'34"E	99.08'
9071	9072	S04°53'22"W	55.79'
9072	9073	S56°07'12"E	409.49'
9073	9074	S00°17'18"W	412.14'
9074	9075	N58°03'36"W	197.50'
9075	9064	N59°28'01"W	849.16'
9064	9063	N00°08'54"W	400.22'

COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
362	9090	N00°08'54"W	898.21'
9090	9087	N00°08'54"W	153.25'
9087	9092	S70°06'27"E	952.04'
9092	9093	S00°17'18"W	127.38'
9093	9096	N70°06'28"W	876.56'
9096	9090	S89°51'06"W	69.94'

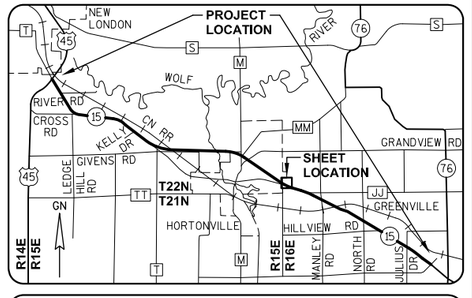
BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15	TPP 6430-06-00-4.10	2011
GREENVILLE RD.	TPP 6430-06-00-4.10	2011

EXISTING ACCESS CONTROL: PROJECT 1146-01-21

COORDINATE TABLE

POINT	Y (NORTH)	X (EAST)
503	588745.994	773492.109
9087	588456.149	772703.811
9092	588132.213	773599.050
9507	589276.735	772701.685



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, DAVID L. ROBERTS, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.35, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 5/01/2015 DAVID L. ROBERTS
PLS S-1725, FOR GREMMER & ASSOCIATES, INC.

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

DATE 6/11/2015 CURT VAN EREM
REAL ESTATE SUPERVISOR

WISCONSIN
DAVID L. ROBERTS
S-1725
STEVENS POINT
WI
LAND SURVEYOR

040435_15.DWG REVISED: 05/01/2015

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.35

PART OF LOTS 1 AND 2 OF CSM 5287, AND PART OF THE FRACTIONAL NW1/4-SW1/4 AND THE FRACTIONAL SW1/4-SW1/4 OF SECTION 31, T22N, R16E, IN THE TOWN OF ELLINGTON; AND PART OF THE FRACTIONAL NW1/4-SW1/4 OF SECTION 31, T22N, R16E IN THE VILLAGE OF HORTONVILLE; ALL IN OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

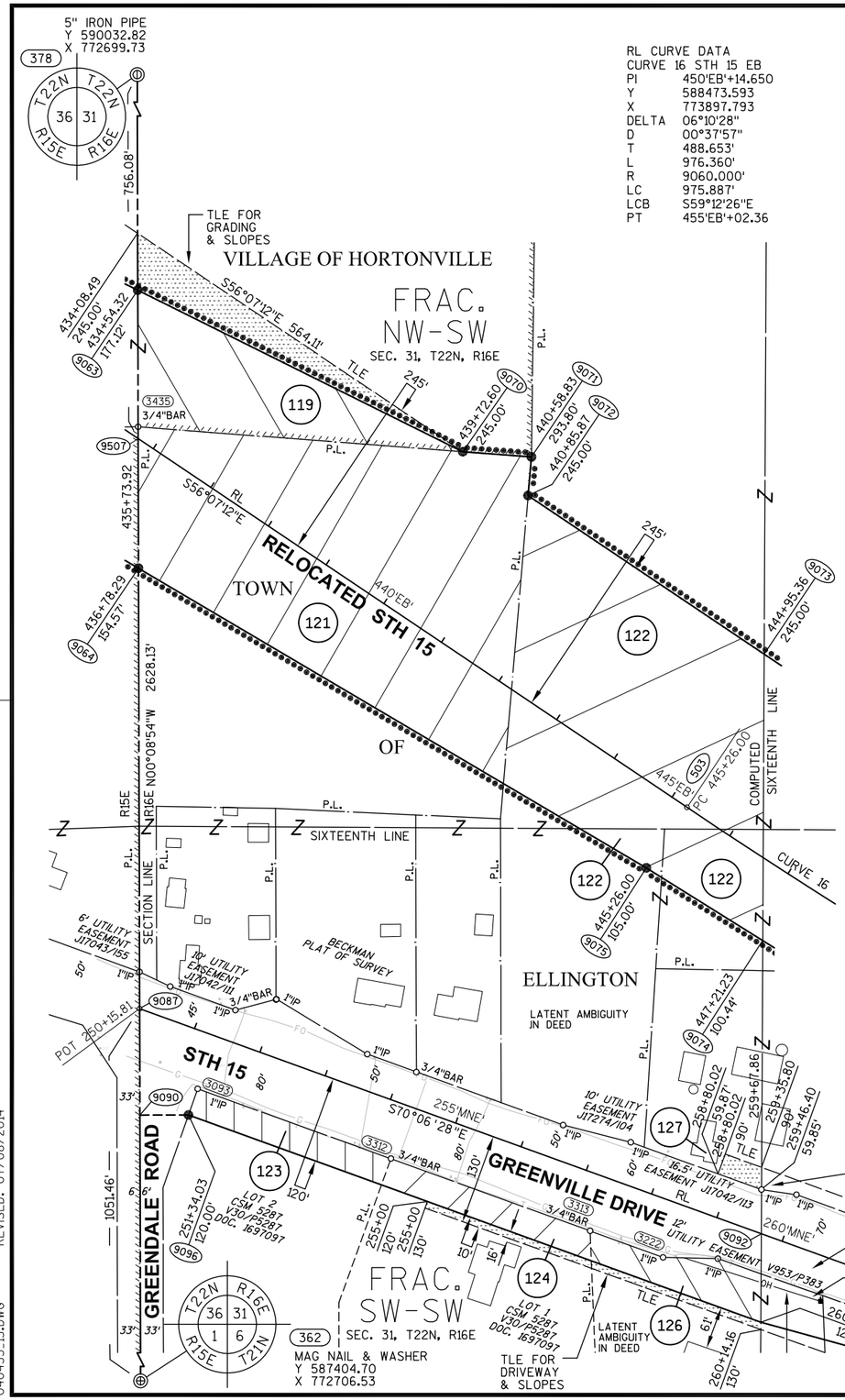
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TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
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2) THE LANDS OR INTERESTS 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

Document #: 2019928
Date: 07-15-2014 Time: 08:34 AM Pages: 1
Fee: $25.00 County: OUTAGAMIE State: WI
SARAH R VAN CAMP
REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.35
AMENDMENT NO:

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO. 1146-75-22- 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.



RL CURVE DATA
CURVE 16 STH 15 EB

PI	450'EB'+14.650
Y	588473.593
X	773897.793
DELTA	06°10'28"
D	00°37'57"
T	488.653'
L	976.360'
R	9060.000'
LC	975.887'
LCB	S59°12'26"E
PT	455'EB'+02.36

GN

AFFIDAVIT DOC NO 2022510
AFFIDAVIT DOC NO 2022511

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 ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
119	VILLAGE OF HORTONVILLE	FEE, TLE	1.056	0	1.056	0.440
121	ALVIN H. LEMKE	FEE	4.302	0	4.302	0
122	ARNOLD J. & MARY S. WEYERS	FEE	3.469	0	3.469	0
123	PATRICK & DAWN MCNICHOLS	FEE	0.271	0	0.271	0
124	DENNIS H. ZEMPLE & LORI ZEMPLE COMMUNITY FIRST CREDIT UNION	FEE, TLE	0.287	0	0.287	0.058
126	DON E. PARKER	FEE, TLE	0.301	0	0.301	0.060
127	ALVIN H. LEMKE JR.	TLE	0	0	0	0.042

UTILITY INTERESTS REQUIRED:

919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
922	AT&T WISCONSIN	RELEASE OF RIGHTS

COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
378	9063	S00°08'54"E	542.37'
9063	9070	S63°34'56"E	522.70'
9070	9071	S85°37'34"E	99.08'
9071	9072	S04°53'22"W	55.79'
9072	9073	S56°07'12"E	409.49'
9073	9074	S00°17'18"W	412.14'
9074	9075	N58°03'36"W	197.50'
9075	9064	N59°28'01"W	849.16'
9064	9063	N00°08'54"W	400.22'

COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
362	9090	N00°08'54"W	898.21'
9090	9087	N00°08'54"W	153.25'
9087	9092	S70°06'27"E	952.04'
9092	9093	S00°17'18"W	127.38'
9093	9096	N70°06'28"W	876.56'
9096	9090	S89°51'06"W	69.94'

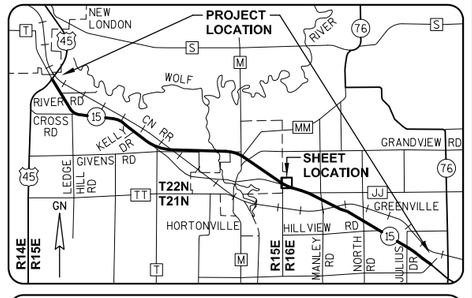
BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15	TPP 6430-06-00-4.10	2011
GREENVILLE RD.	TPP 6430-06-00-4.10	2011

EXISTING ACCESS CONTROL: PROJECT 1146-01-21

COORDINATE TABLE

POINT	Y (NORTH)	X (EAST)
503	588745.994	773492.109
9087	588456.149	772703.811
9092	588132.213	773599.050
9507	589276.735	772701.685



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, DAVID L. ROBERTS, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.35, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 7/08/2014 DAVID L. ROBERTS
RLS S-1725, FOR GREMMER & ASSOCIATES, INC.

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

DATE 7/09/2014 CURT VAN EREM
REAL ESTATE SUPERVISOR

WISCONSIN
DAVID L. ROBERTS
S-1725
STEVENS POINT
WI
LAND SURVEYOR

040435_15.DWG REVISED: 07/08/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.36 AMENDMENT NO: 2

AMENDS PARCELS 129 AND 131 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.36, RECORDED AS DOCUMENT #2019929, PART OF THE NE1/4-SW1/4 AND THE SE1/4-SW1/4 OF SECTION 31, T22N, R16E, ALL IN THE TOWN OF ELLINGTON, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

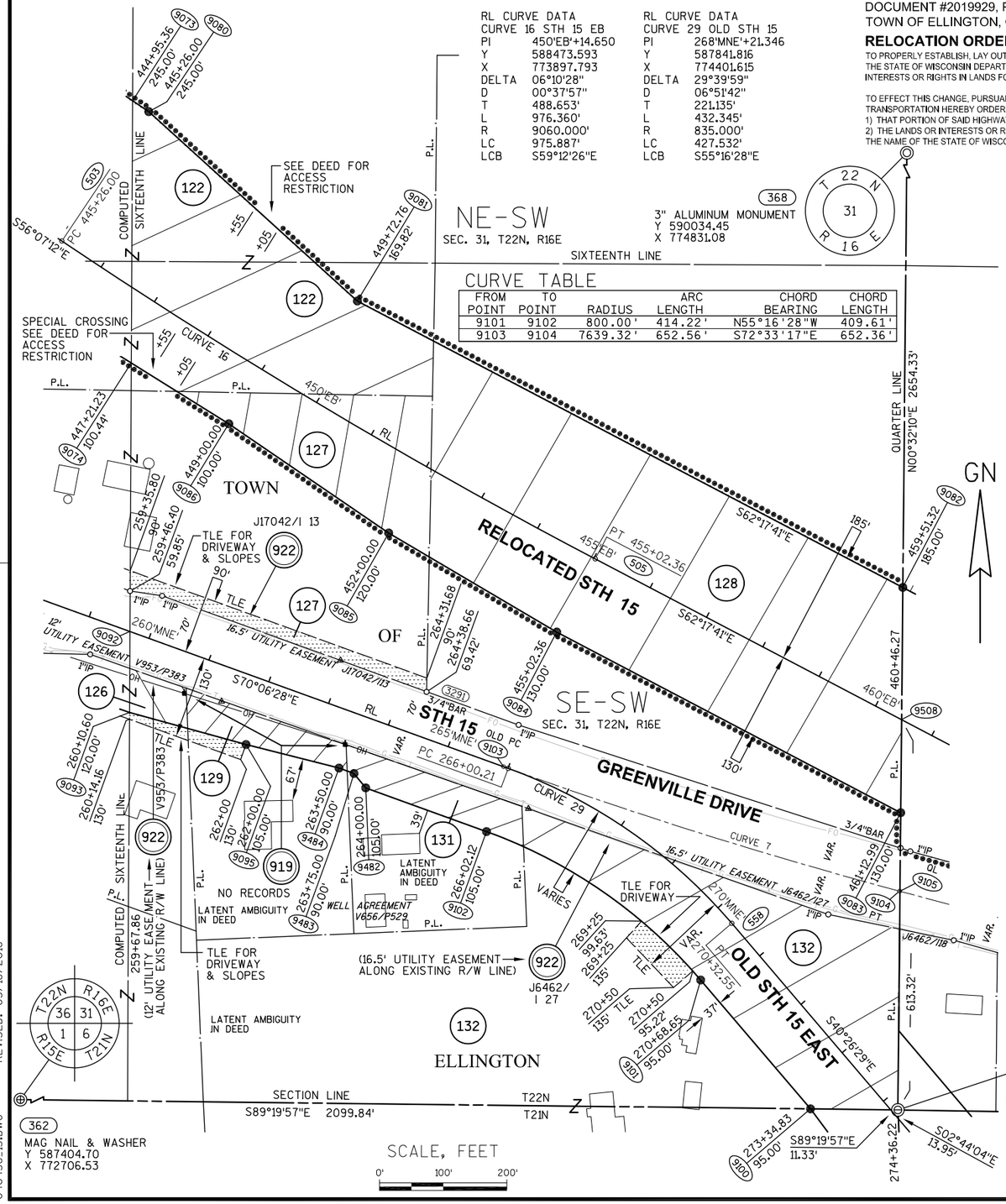
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN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

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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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

Document #: 2075773
Date: 06-22-2016 Time: 07:55 AM
Pages: 1 Fee: $25.00
County: OUTAGAMII COUNTY State: WI

SARAH R VAN CAMP, REGISTER OF DEEDS
This document has been electronically recorded and returned to:
WiDotNeRegionGreenbay

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.36
AMENDMENT NO: 2



REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO. 1146-75-22- 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
122	ARNOLD J. & MARY S. WEYERS	FEE	2.765	0	2.765	0
126	DON E. PARKER	FEE, TLE	0.137	0	0.137	0.031
127	ALVIN H. LEMKE JR.	FEE, TLE	1.170	0	1.170	0.237
128	JOAN M. JOSSART SURVIVOR'S TRUST	FEE	6.009	0	6.009	0
129	DOUGLAS J. & BRENDA K. SCHWOBE	FEE, TLE	0.299	0	0.299	0.045
131	KENNETH R. & THOMAS L. WYNBOOM	FEE	0.364	0	0.364	0
132	RUTH M. YOUNG	FEE, TLE	2.573	0	2.573	0.098

UTILITY INTERESTS REQUIRED:

919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
922	AT&T WISCONSIN	RELEASE OF RIGHTS

COORDINATE TABLE

POINT	Y (NORTH)	X (EAST)
503	588745.994	773492.109
505	588246.406	774330.421
558	587673.516	774545.058
9092	588132.213	773599.050
9508	587993.527	774811.975

COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
364	9083	N00°32'10"E	467.20'
9083	9084	N62°17'41"W	610.63'
9084	9085	N59°28'13"W	306.68'
9085	9086	N55°39'57"W	304.29'
9086	9074	N58°03'36"W	180.74'
9074	9073	N00°17'18"E	412.14'
9073	9080	S56°07'12"E	30.64'
9080	9081	S47°45'45"E	442.91'
9081	9082	S62°17'41"E	968.34'
9082	9083	S00°32'10"W	354.07'

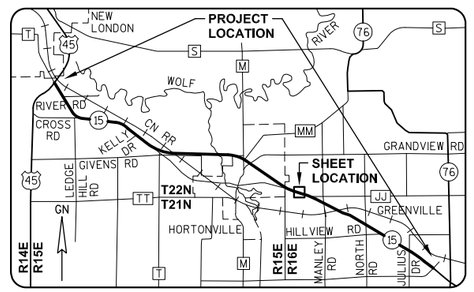
COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
364	9100	N89°19'57"W	137.41'
9100	9101	N40°26'29"W	266.18'
9102	9482	N70°06'28"W	201.88'
9482	9483	N39°08'38"W	29.15'
9483	9484	N70°06'28"W	25.00'
9484	9095	N75°49'06"W	150.75'
9095	9093	N74°38'09"W	190.00'
9093	9092	N00°17'18"E	127.38'
9092	9103	S70°06'28"E	624.79'
9104	9105	S75°00'07"E	0.55'
9105	364	S00°32'10"W	343.69'

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15	TPP 6430-06-00-4.10	2011

EXISTING ACCESS CONTROL: PROJECT 1146-01-21



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, DAVID L. ROBERTS, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.36, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 05/16/2016 DAVID L. ROBERTS
RLS S-1725, FOR GREMMER & ASSOCIATES, INC.

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

DATE 06/21/2016 CURT VAN EREM
REAL ESTATE SUPERVISOR

WISCONSIN DAVID L. ROBERTS S-1725 STEVENS POINT WI LAND SURVEYOR

REVISED: 05/16/2016

040436_15.DWG

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.36
AMENDMENT NO: 1

AMENDS PARCELS 122 AND 127 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.36, RECORDED AS DOCUMENT #2019929, PART OF THE NE1/4-SW1/4 AND THE SE1/4-SW1/4 OF SECTION 31, T22N, R16E, ALL IN THE TOWN OF ELLINGTON, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

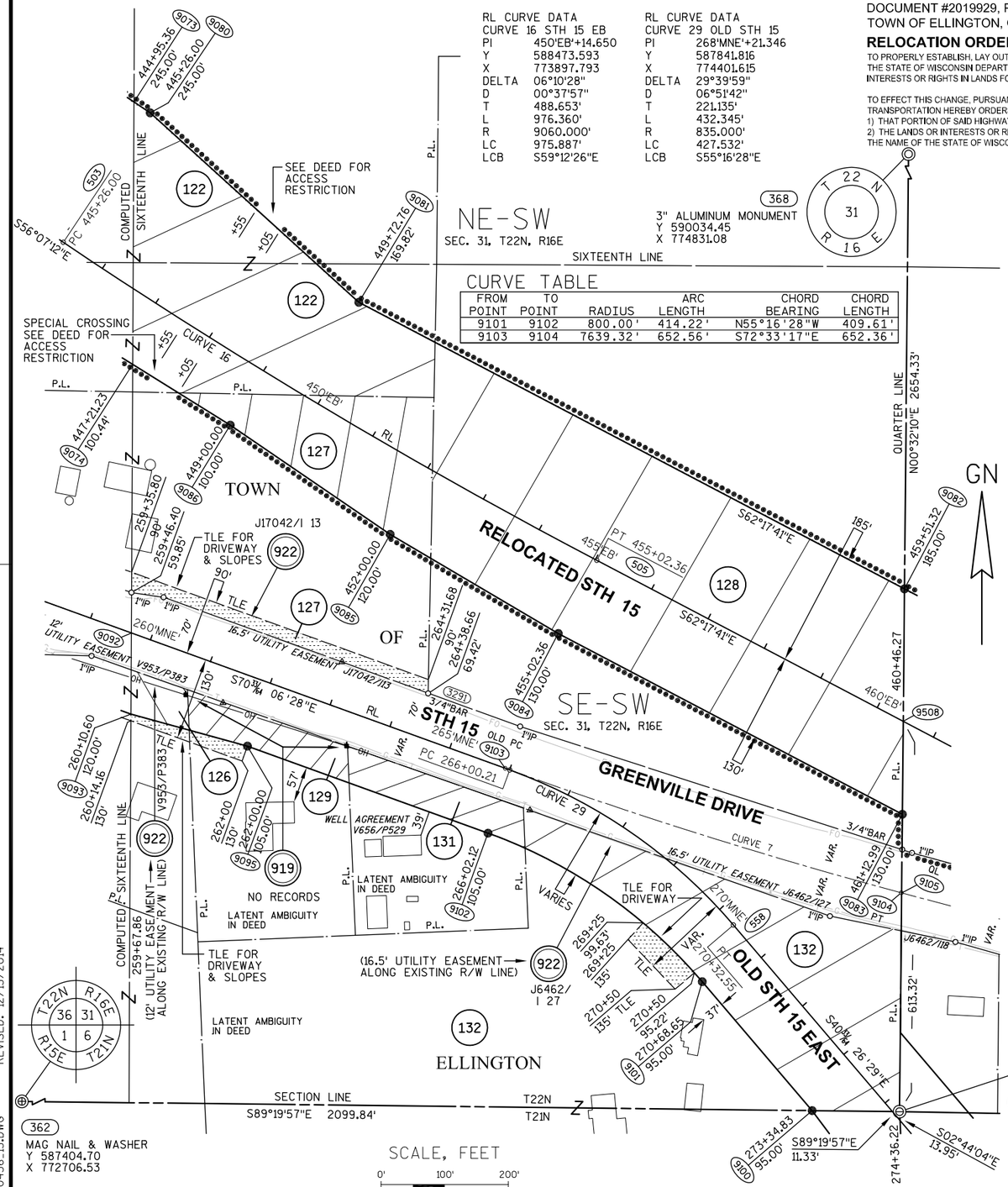
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

Document #: 2035556
Date: 02-06-2015 Time: 09:17 AM
Pages: 1 Fee: $25.00
County: OUTAGAMIE COUNTY State: WI
SARAH R VAN CAMP, REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.36
AMENDMENT NO: 1

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO. 1146-75-22- 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.



CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
9101	9102	800.00'	414.22'	N55°16'28"W	409.61'
9103	9104	7639.32'	652.56'	S72°33'17"E	652.36'

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.

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BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15	TPP 6430-06-00-4.10	2011

EXISTING ACCESS CONTROL: PROJECT 1146-01-21

COORDINATE TABLE

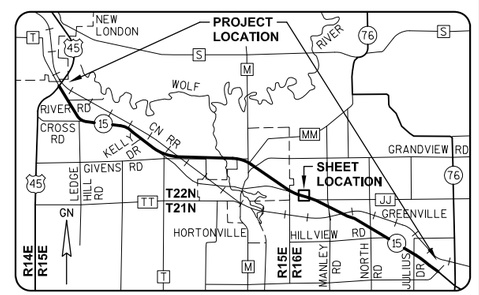
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CONSULTING ENGINEERS
Stevens Point • Fond du Lac

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DATE 12/13/2014 DAVID L. ROBERTS RLS S-1725, FOR GREMMER & ASSOCIATES, INC.

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

DATE 2/4/2015 CURT VAN EREM REAL ESTATE SUPERVISOR

WISCONSIN DAVID L. ROBERTS S-1725 STEVENS POINT WI LAND SURVEYOR

040436_15.DWG REVISED: 12/13/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.36

PART OF THE NE1/4-SW1/4 AND THE SE1/4-SW1/4 OF SECTION 31, T22N, R16E, ALL IN THE TOWN OF ELLINGTON, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

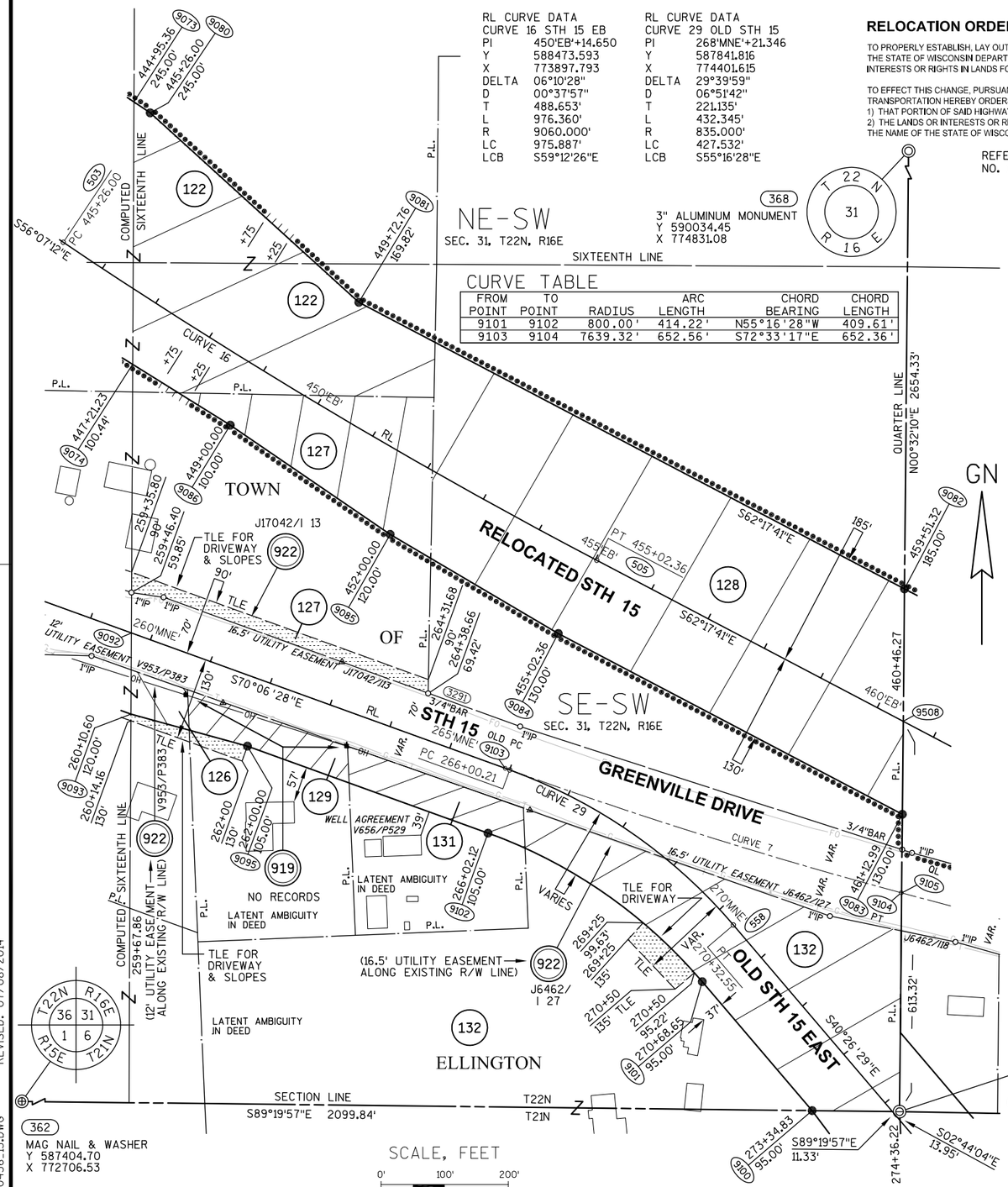
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Document #: 2019929
Date: 07-15-2014 Time: 08:35 AM Pages: 1
Fee: $25.00 County: OUTAGAMIE State: WI
SARAH R VAN CAMP
REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.36
AMENDMENT NO:

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ROUTE	BASIS	YEAR
STH 15	TPP 6430-06-00-4.10	2011

EXISTING ACCESS CONTROL: PROJECT 1146-01-21

COORDINATE TABLE

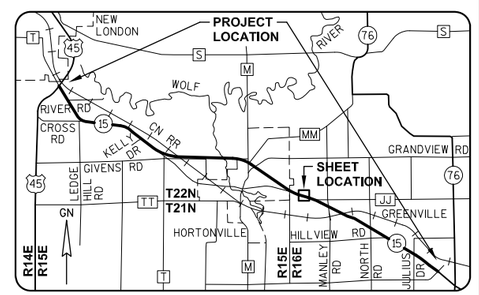
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CONSULTING ENGINEERS
Stevens Point • Fond du Lac

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DATE 7/08/2014 DAVID L. ROBERTS RLS S-1725, FOR GREMMER & ASSOCIATES, INC.

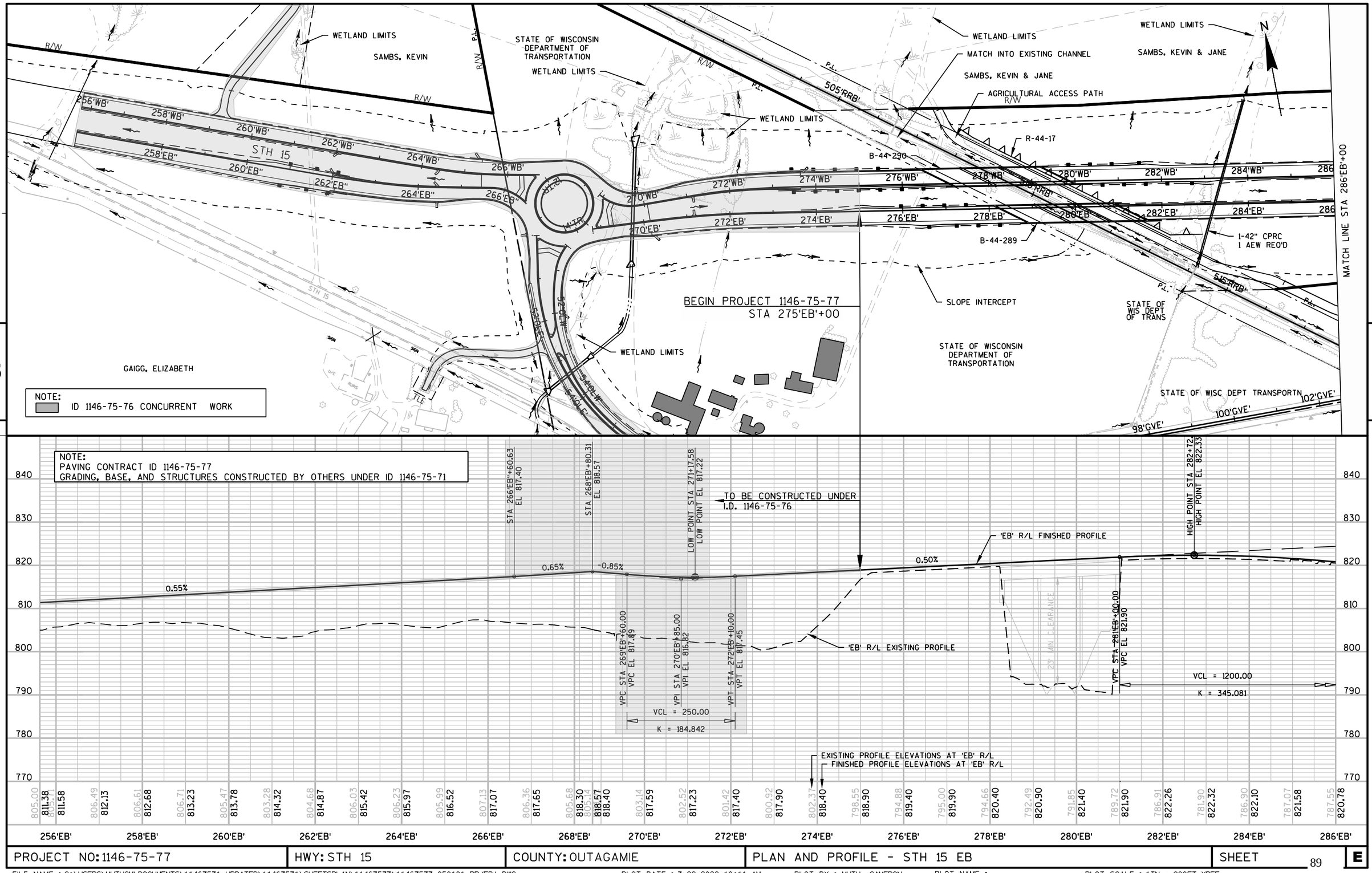
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 7/09/2014 CURT VAN EREM REAL ESTATE SUPERVISOR

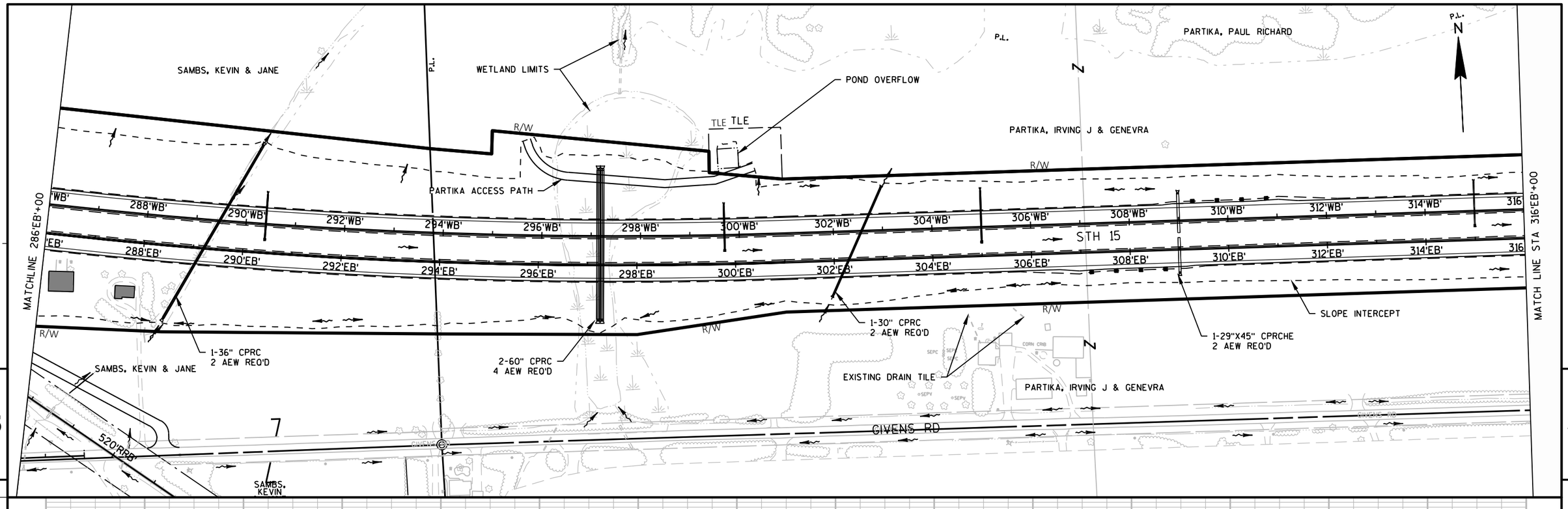
WISCONSIN DAVID L. ROBERTS S-1725 STEVENS POINT WI LAND SURVEYOR

040436_15.DWG REVISED: 07/08/2014

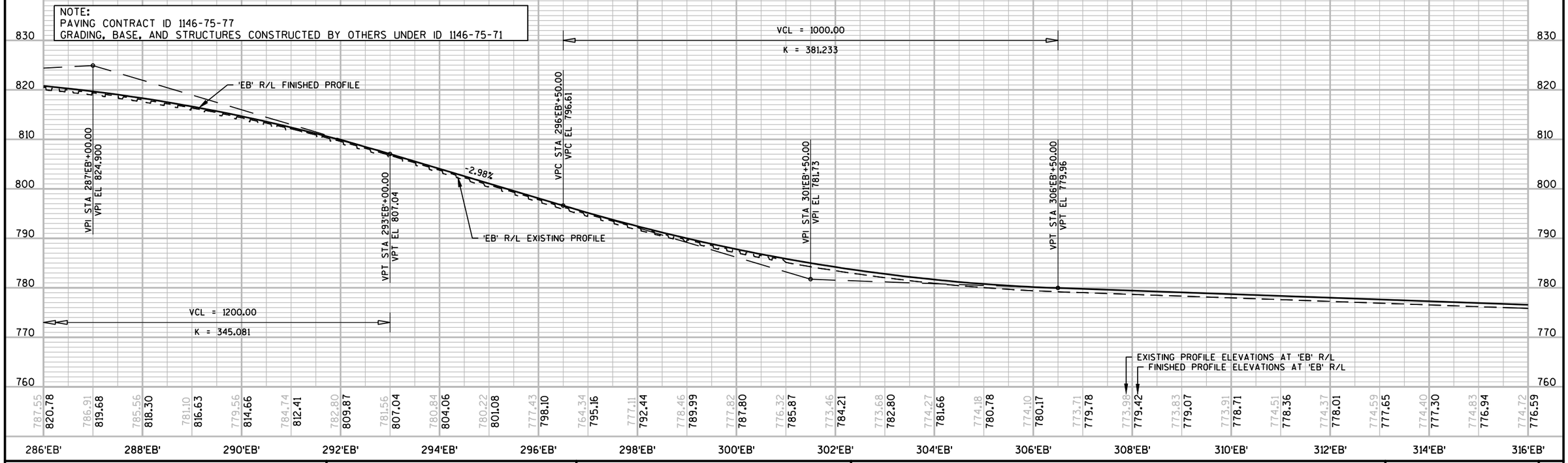
APPRAISAL PLAT DATE:



PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - STH 15 EB	SHEET 89 E



NOTE:
PAVING CONTRACT ID 1146-75-77
GRADING, BASE, AND STRUCTURES CONSTRUCTED BY OTHERS UNDER ID 1146-75-71



PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - STH 15 EB	SHEET 90	E

MATCH LINE STA 316'EB'+00

MATCH LINE STA 346'EB'+00

5

5

PARTIKA, IRVING J & GENEVRA

SYKES, JAMES I & MARIANN D

PARKER, DON E & MARGARET E

R/W

TLE

B-44-296

B-44-295

STH 15

316'WB' 318'WB' 320'WB' 322'WB' 324'WB' 326'WB' 328'WB' 330'WB' 332'WB' 334'WB' 336'WB' 338'WB' 340'WB' 342'WB' 344'WB' 346

316'EB' 318'EB' 320'EB' 322'EB' 324'EB' 326'EB' 328'EB' 330'EB' 332'EB' 334'EB' 336'EB' 338'EB' 340'EB' 342'EB' 344'EB' 346

EXISTING DRAIN TILE

2-30" CPRC
1 MH 5J REQ'D
4 AEW REQ'D

SLOPE INTERCEPT

2-30" CPRC
1 INL MEDIAN 1G REQ'D
4 AEW REQ'D

P.I.

PROPOSED CREEK REALIGNMENT

BLACK OTTER CREEK

GIVENS RD

WETLAND LIMITS (TYP)

N

NOTE:
PAVING CONTRACT ID 1146-75-77
GRADING, BASE, AND STRUCTURES CONSTRUCTED BY OTHERS UNDER ID 1146-75-71

VCL = 500.00
K = 3490.124

VCL = 2400.00
K = 686.177

VPC STA 334'EB'+00.00
VPC EL 770.21

VPI STA 336'EB'+50.00
VPI EL 769.324

VPT STA 339'EB'+00.00
VPT EL 768.08

VPC STA 344'EB'+10.00
VPC EL 765.54

-0.35%

-0.50%

'EB' R/L FINISHED PROFILE

'EB' R/L EXISTING PROFILE

MARSH EXCAVATION

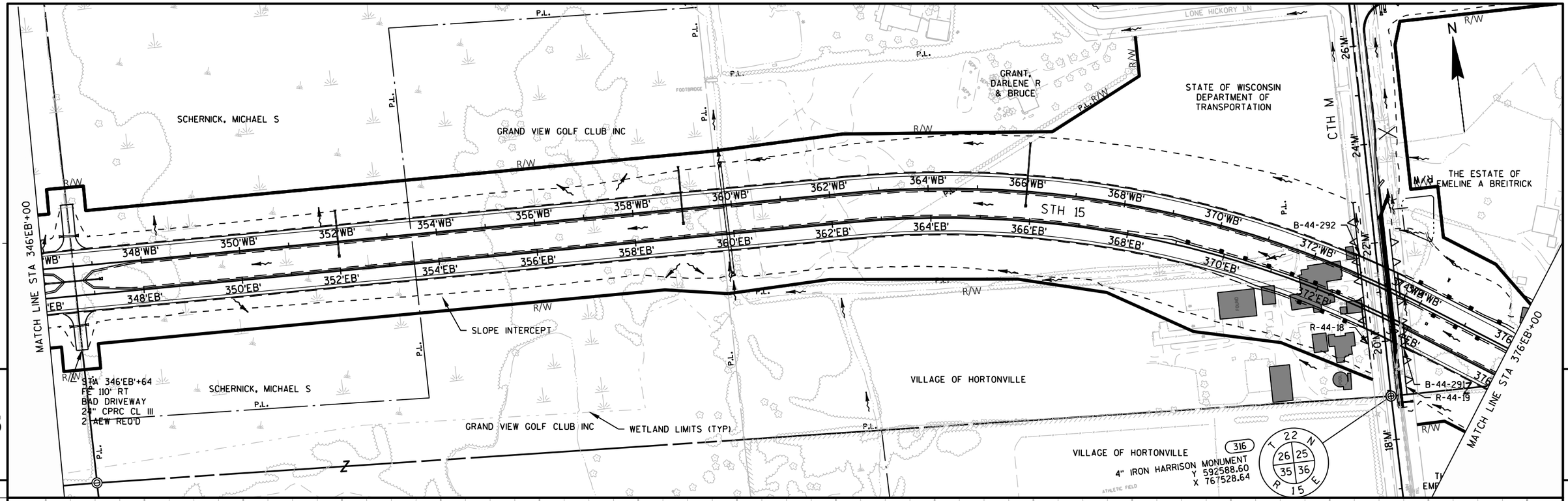
*SEE CROSS SECTIONS FOR MARSH EXCAVATION LIMITS DETAILS

EXISTING PROFILE ELEVATIONS AT 'EB' R/L
FINISHED PROFILE ELEVATIONS AT 'EB' R/L

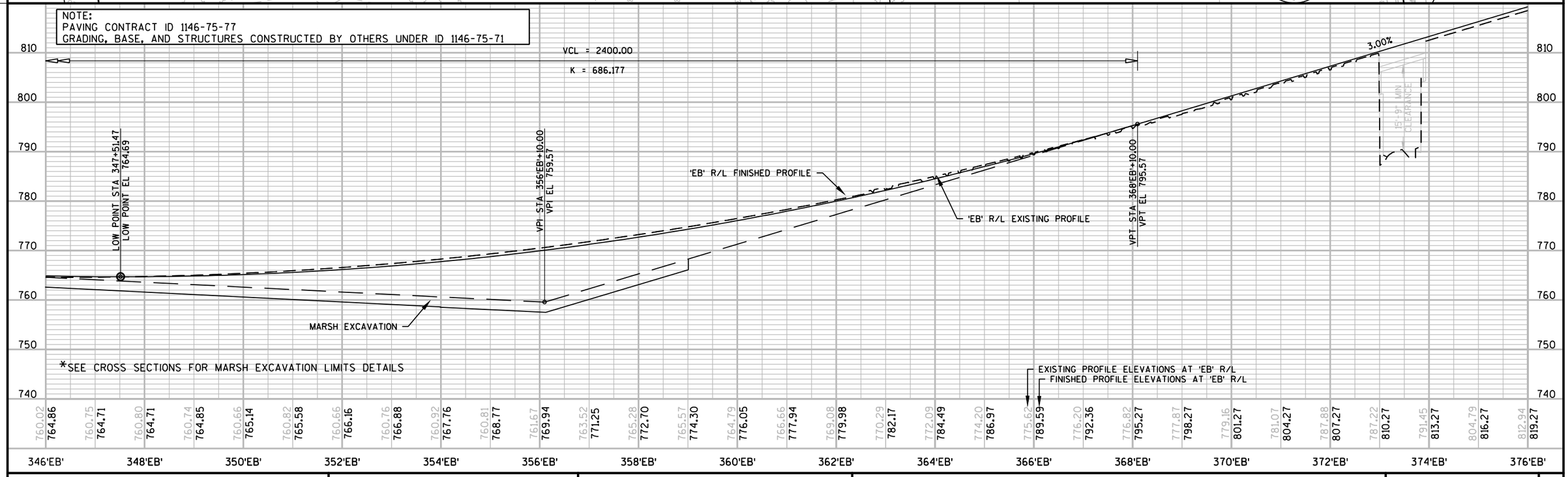
800 790 780 770 760 750 740 730

316'EB'	318'EB'	320'EB'	322'EB'	324'EB'	326'EB'	328'EB'	330'EB'	332'EB'	334'EB'	336'EB'	338'EB'	340'EB'	342'EB'	344'EB'	346'EB'
774.72	776.59	773.61	776.23	773.52	775.88	773.58	775.53	773.31	775.17	773.37	774.82	771.95	774.46	772.06	774.11	772.05	773.75	771.44	773.40	770.26	773.04	769.25	772.69	765.99	772.34	763.54	771.98	763.05	771.63	763.09	771.27	762.29	770.92	759.79	770.56	759.45	770.21	759.33	769.84	759.13	769.44	759.34	769.02	759.66	768.56	760.18	768.08	758.29	767.58	759.27	767.08	758.82	766.59	758.77	766.09	758.91	765.59	759.28	765.15	760.02	764.86

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - STH 15 EB	SHEET 91 E



NOTE:
PAVING CONTRACT ID 1146-75-77
GRADING, BASE, AND STRUCTURES CONSTRUCTED BY OTHERS UNDER ID 1146-75-71



PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - STH 15 EB	SHEET 92	E

MATCH LINE STA 376'EB'+00

MATCH LINE STA 406'EB'+00

5

5

HEYES, EDWARD K & LINDA F

THE ESTATE OF EMELINE A BREITRICK

KLOEHN, JANICE R

KLITZKE, LARRY L & WF

MULROY, BARRY J

CAPTAIN, PAUL A

NASH HILLS LLC

DODD, DARIN & MICHEL

BREITRICK, MARK

PROPOSED POND '387 LT'

B-44-294

SARGENT, NICHOLAS D

CAPTAIN, PAUL A

STH 15

112'NSH'

110'NSH'

108'NSH'

106'NSH'

NASH ST

N. CREST ST

12'NCR'

R-44-20

R-44-21

B-44-293

SLOPE INTERCEPT

PROPOSED POND '387 RT'

PROPOSED POND '394'

PROPOSED POND '402'

RIEHL, THOMAS R

POLACEK, ANTON & BRENDA SUE

FINK, KEITH A

BAKER, MARTIN M & JANICE M

JUSTMANN, DAVID A & LINDA D

CLOSE, KENNETH L & DONNA J

HORTONVILLE SCHOOL DISTRICT

HOEWISCH, WALMER/MAX REV

TESSEN,

HARRIS WAY

CAUTION

TLE

R/W

P.L.

OAK

VCL = 2000.00

K = 469.218

VCL = 1000.00

K = 408.080

VPC STA 378'EB'+00.00
VPC EL 825.27

VPI STA 388'EB'+00.00
VPI EL 855.270

VPT STA 398'EB'+00.00
VPT EL 842.65

VPC STA 398'EB'+50.00
VPC EL 842.01

VPI STA 403'EB'+50.00
VPI EL 835.70

'EB' R/L FINISHED PROFILE

'EB' R/L EXISTING PROFILE

-1.26%

HIGH POINT STA 392+07.65
HIGH POINT EL 846.38

LOW POINT STA 403+65.17
LOW POINT EL 838.76

46'-0" MIN CLEARANCE

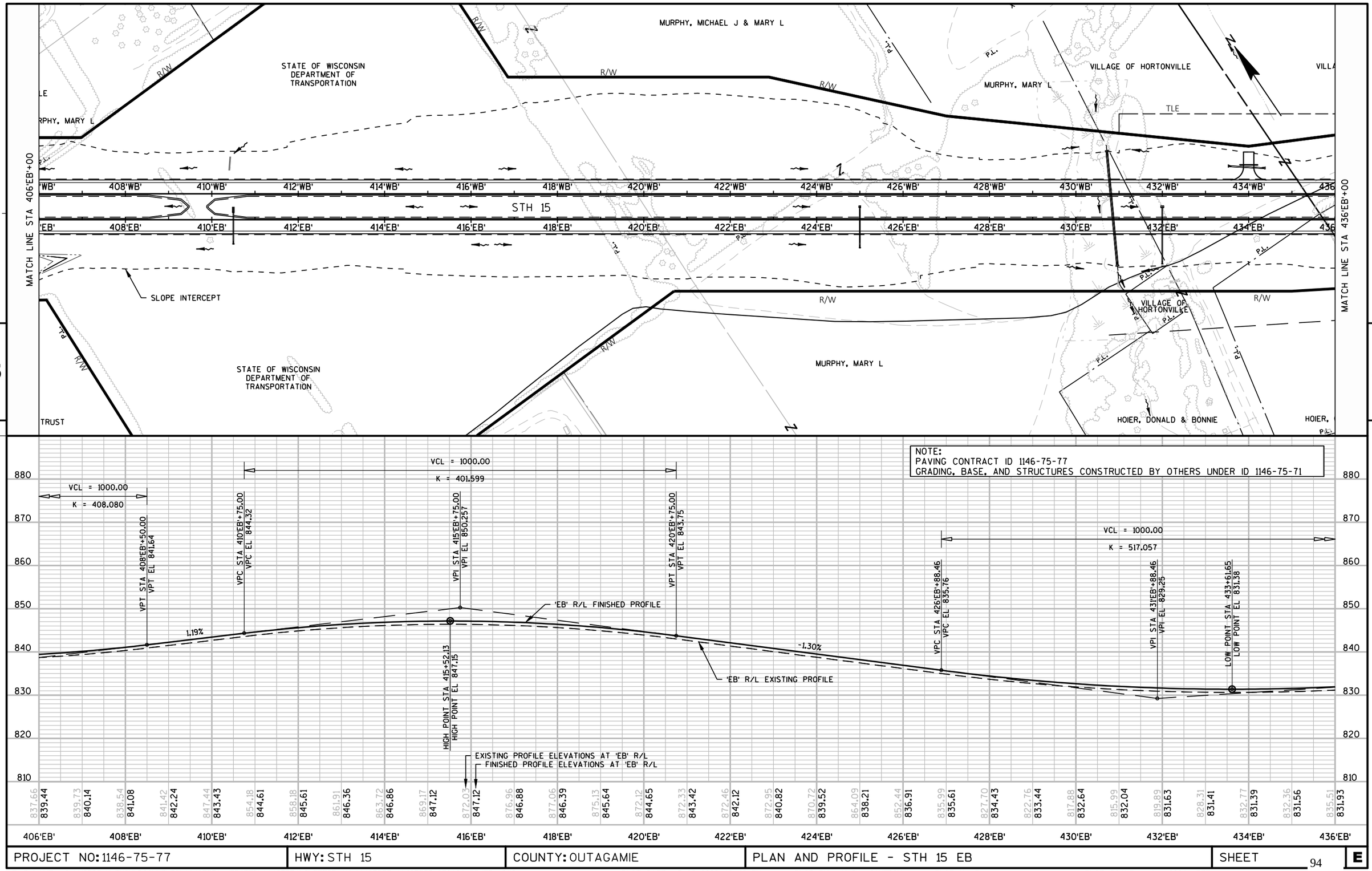
EXISTING PROFILE ELEVATIONS AT 'EB' R/L
FINISHED PROFILE ELEVATIONS AT 'EB' R/L

NOTE:
PAVING CONTRACT ID 1146-75-77
GRADING, BASE, AND STRUCTURES CONSTRUCTED BY OTHERS UNDER ID 1146-75-71

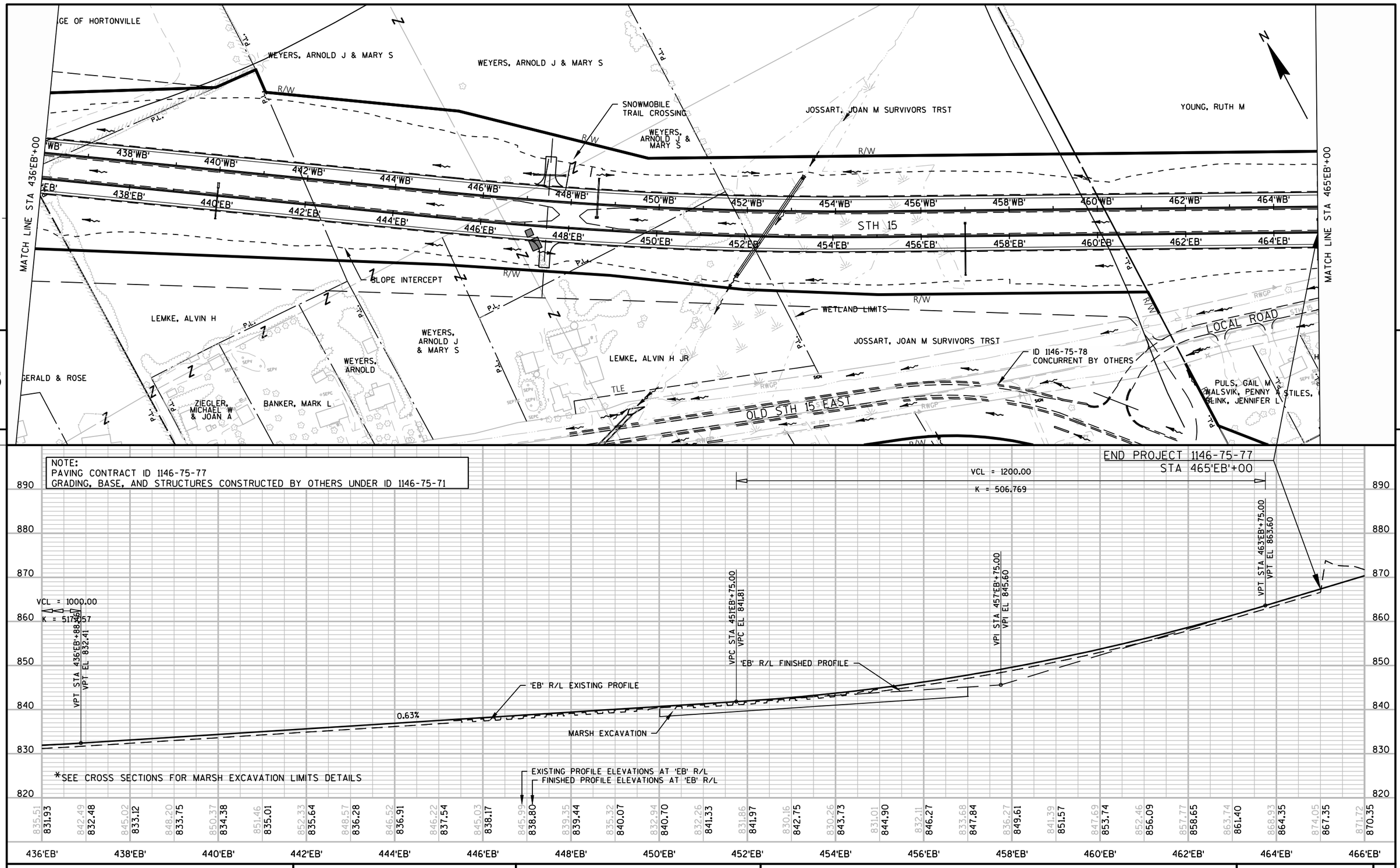
880 870 860 850 840 830 820 810

376'EB'	378'EB'	380'EB'	382'EB'	384'EB'	386'EB'	388'EB'	390'EB'	392'EB'	394'EB'	396'EB'	398'EB'	400'EB'	402'EB'	404'EB'	406'EB'
812.94	819.27	820.74	822.27	824.01	825.27	828.73	828.16	832.67	830.84	837.41	833.31	844.18	835.57	847.65	837.61
843.62	839.43	838.18	841.05	836.60	842.45	828.84	843.64	823.24	844.61	824.11	845.38	820.32	845.93	818.38	846.26
814.30	846.38	814.34	846.29	821.07	845.99	828.00	845.47	821.52	844.74	819.84	843.80	821.91	842.65	822.87	841.41
825.24	840.40	829.21	839.62	831.02	839.10	832.89	838.81	836.44	838.78	836.14	838.99	837.66	839.44		

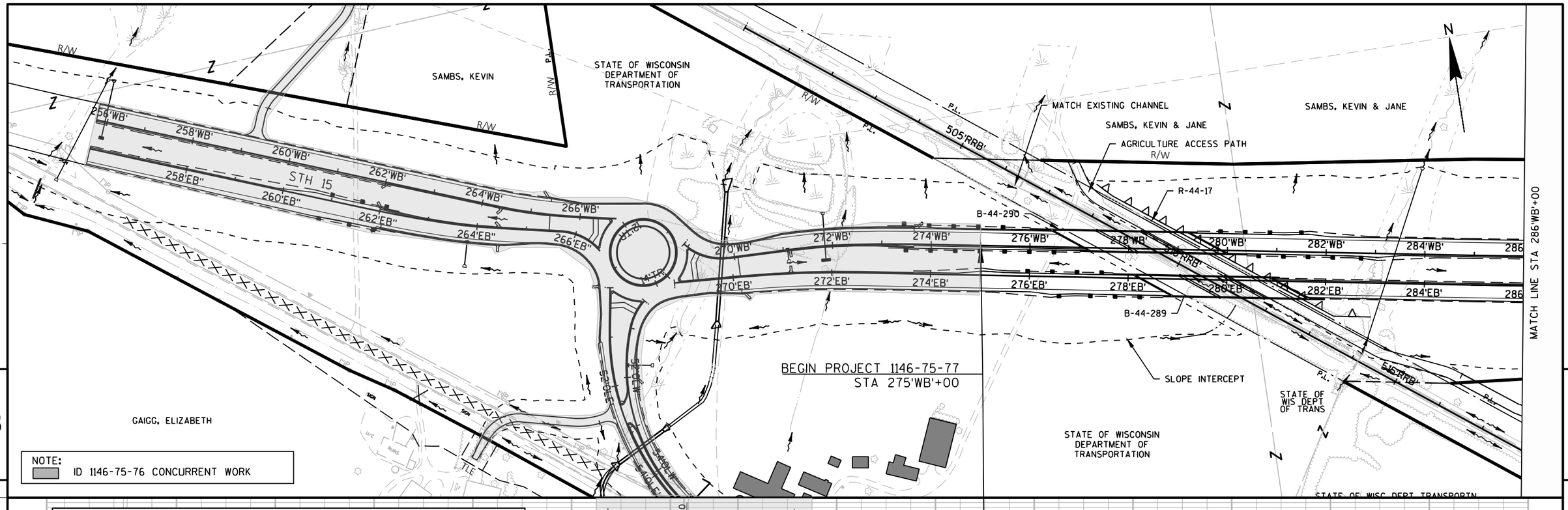
PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - STH 15 EB	SHEET 93 E



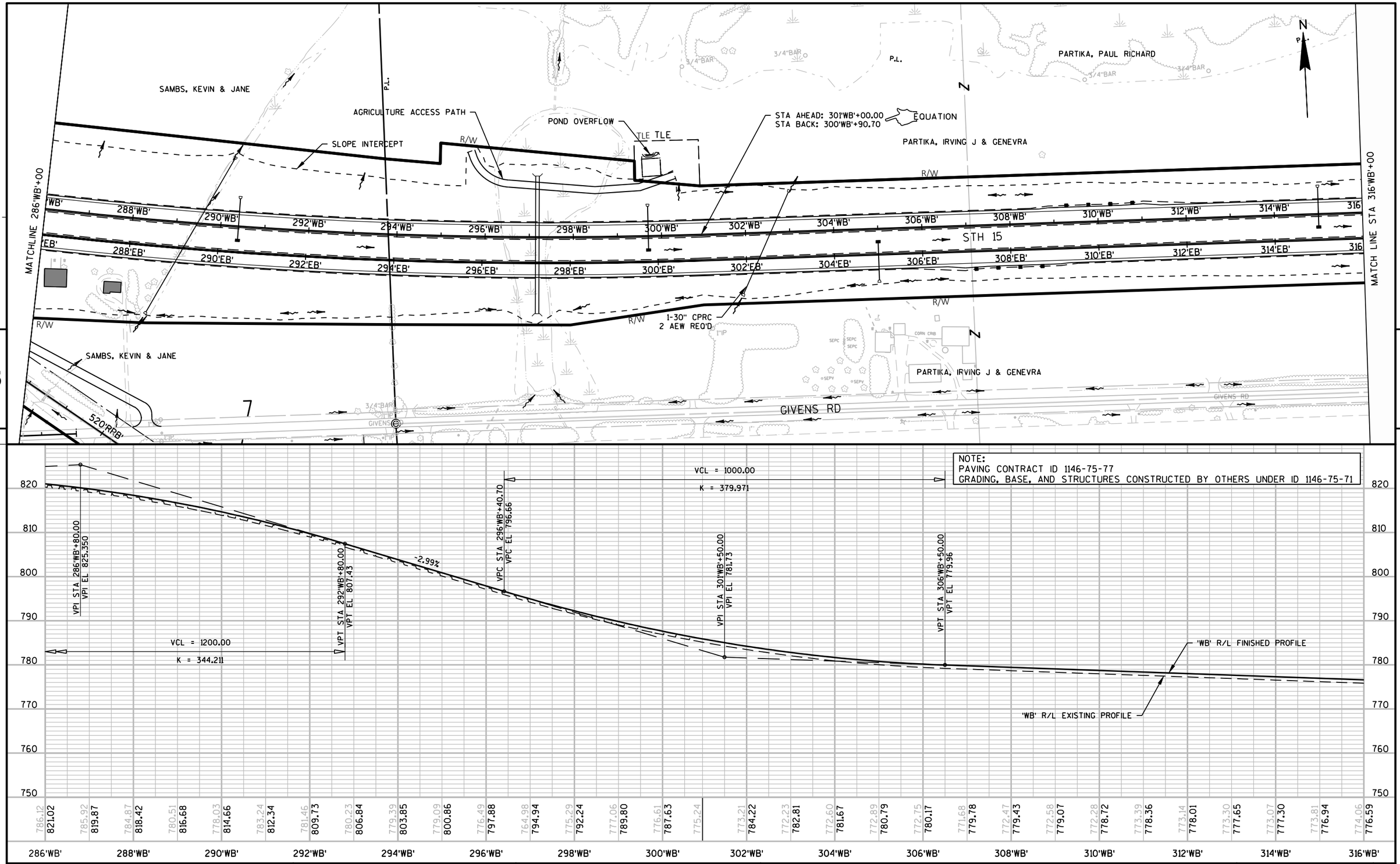
PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - STH 15 EB	SHEET 94 E



PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - STH 15 EB	SHEET 95 E

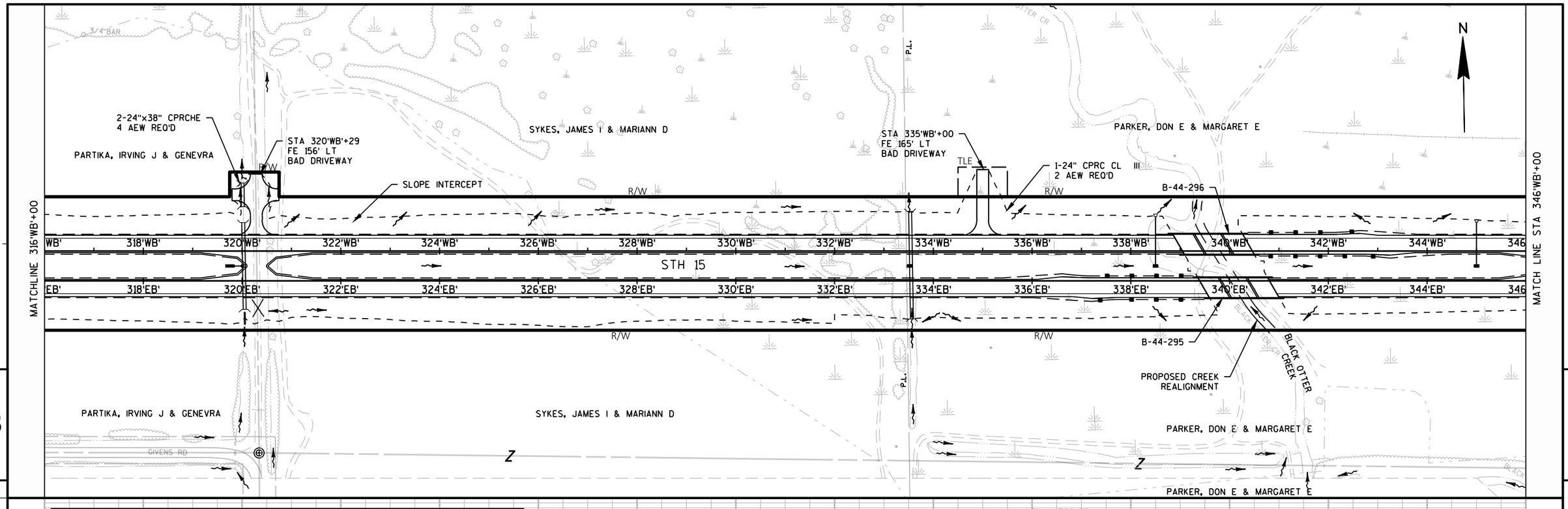


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - STH 15 WB	SHEET 96 E

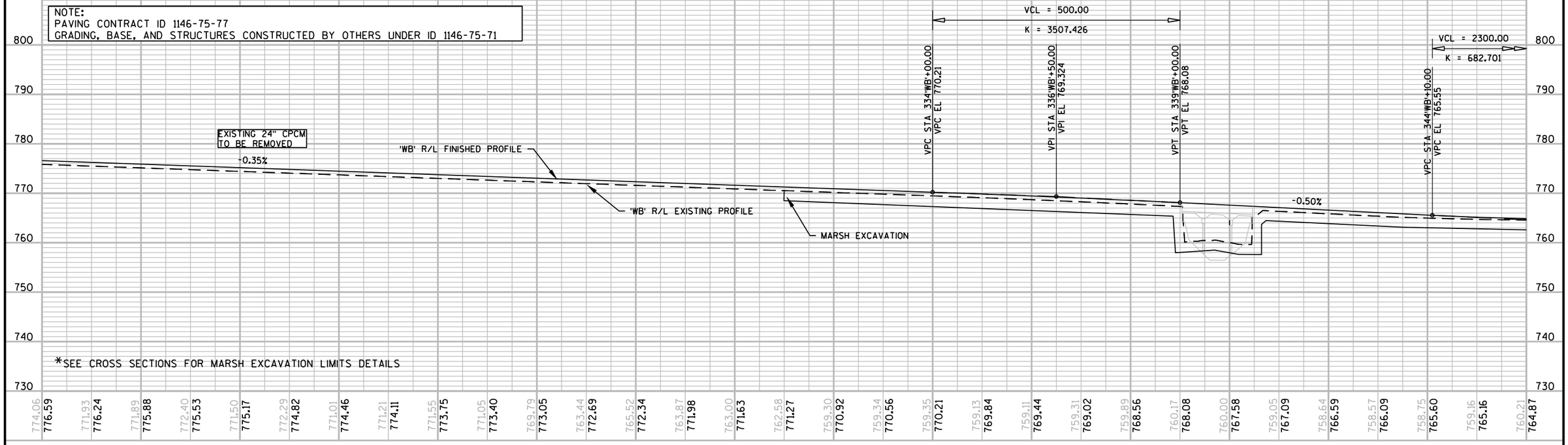


NOTE:
PAVING CONTRACT ID 1146-75-77
GRADING, BASE, AND STRUCTURES CONSTRUCTED BY OTHERS UNDER ID 1146-75-71

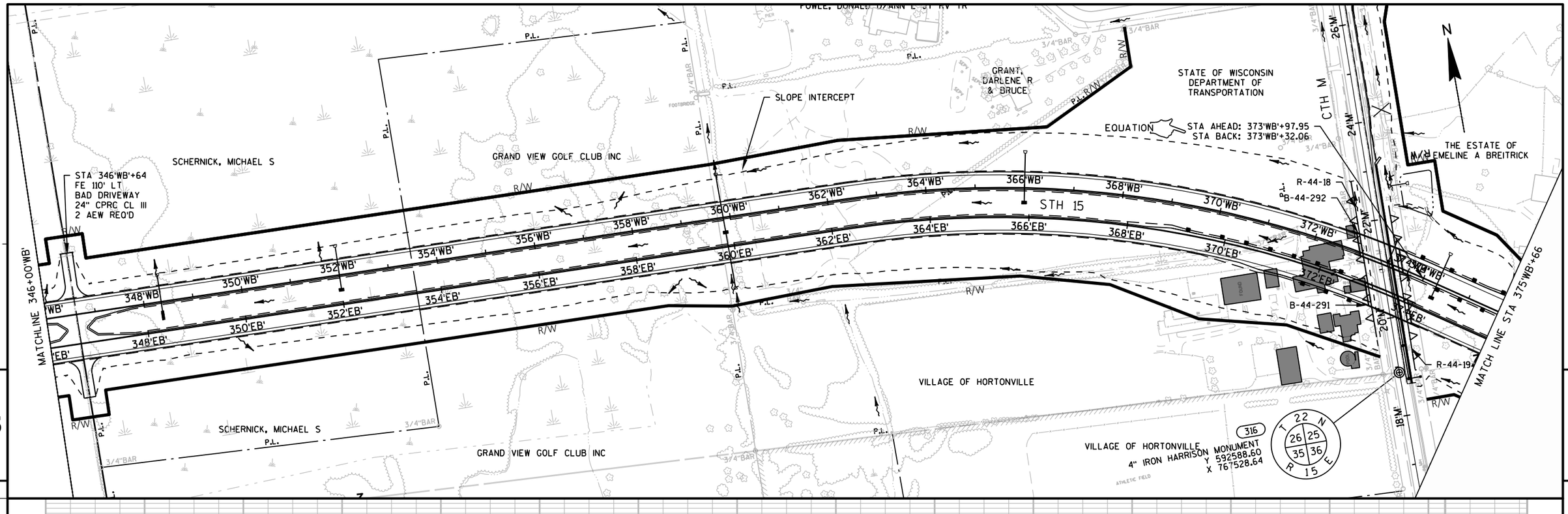
PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - STH 15 WB	SHEET 97 E

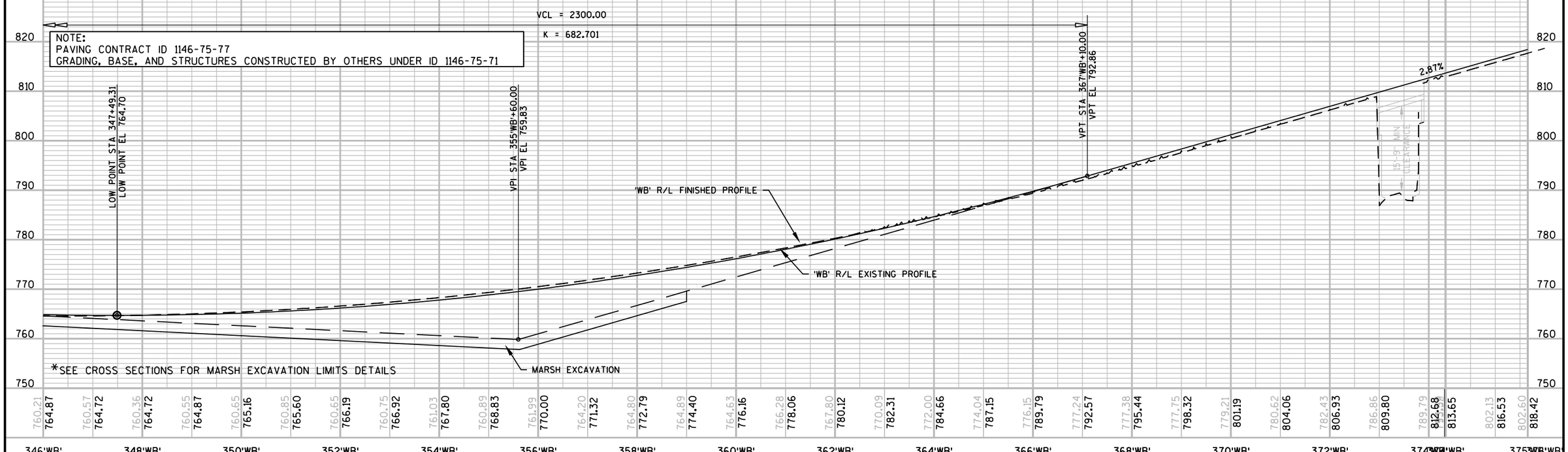


NOTE:
PAVING CONTRACT ID 1146-75-77
GRADING, BASE, AND STRUCTURES CONSTRUCTED BY OTHERS UNDER ID 1146-75-71

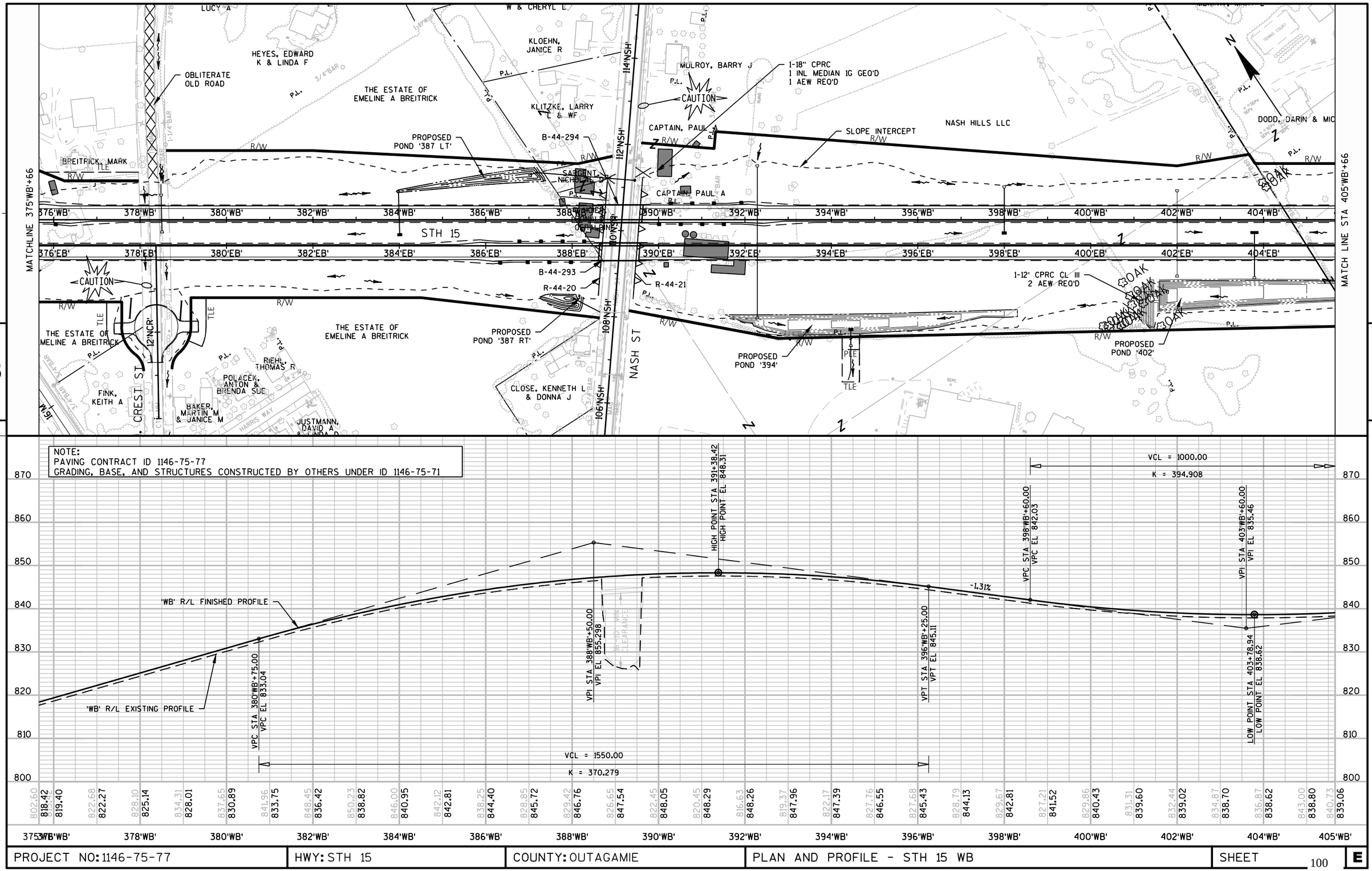


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - STH 15 WB	SHEET 98 E



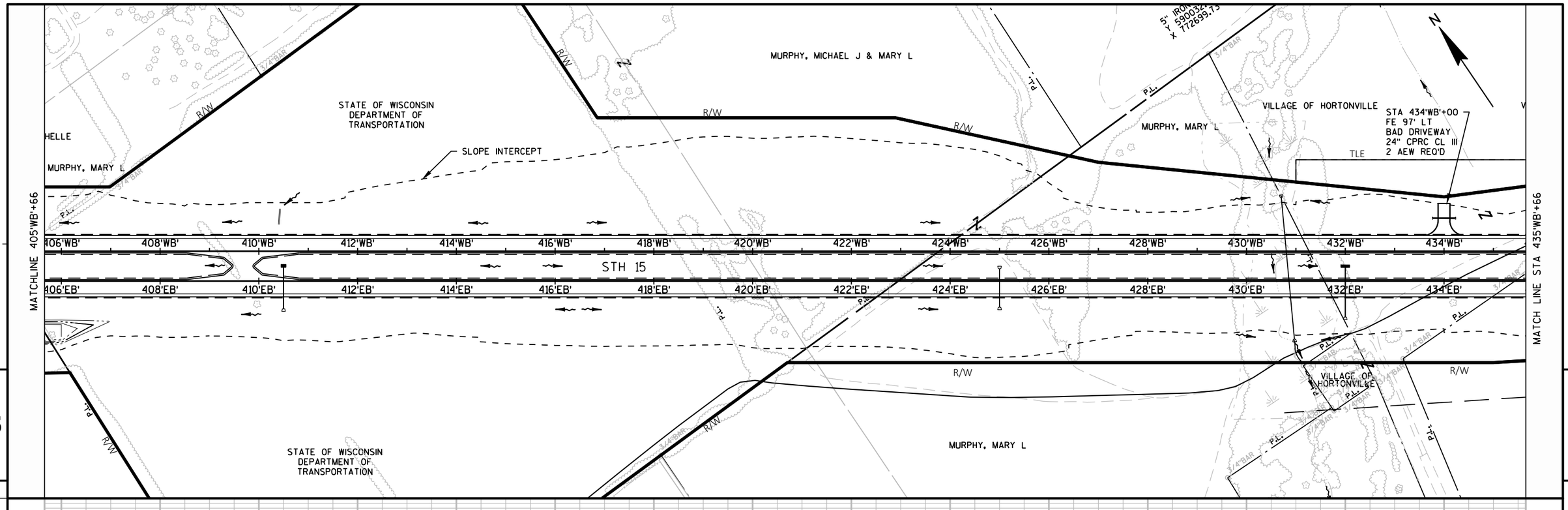


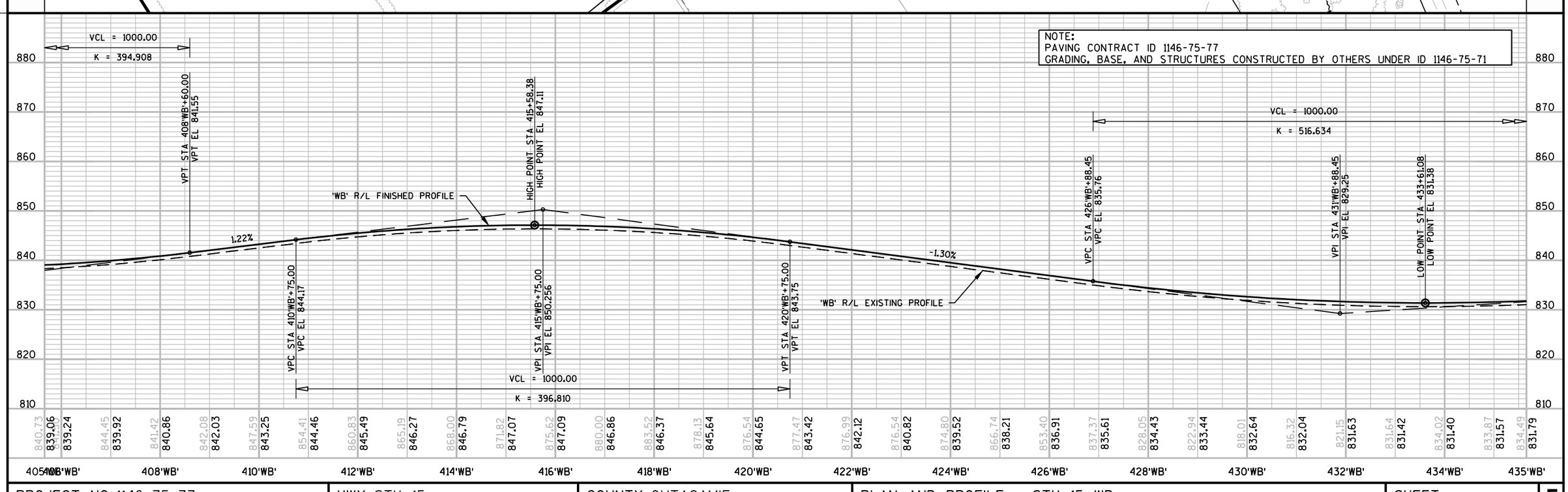
PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - STH 15 WB	SHEET 99	E



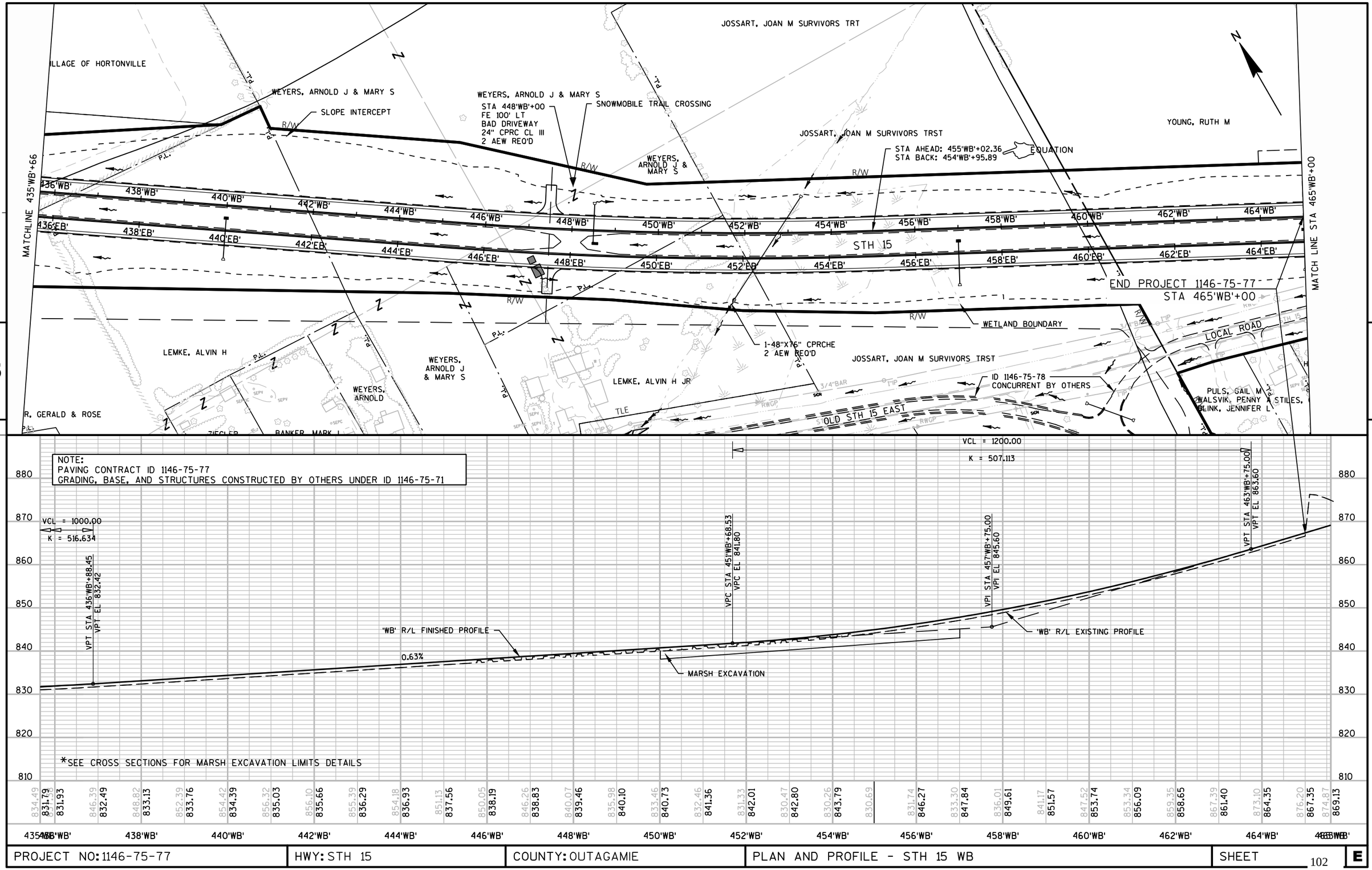
PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - STH 15 WB	SHEET 100	E

FILE NAME : C:\USERS\MUTHCM\DOCUMENTS\11467571-UPDATED\11467571\SHEETSPLAN\11467577\11467577_050108_PP(WB).DWG
LAYOUT NAME - 050112-PP(WB)
PLOT DATE : 7/29/2022 12:10 PM
PLOT BY : MUTH, CAMERON
PLOT NAME :
PLOT SCALE : 1IN : 200FT_XREF
WISDOT/CADDS SHEET 44





PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - STH 15 WB	SHEET 101 E

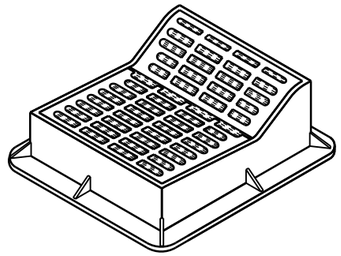


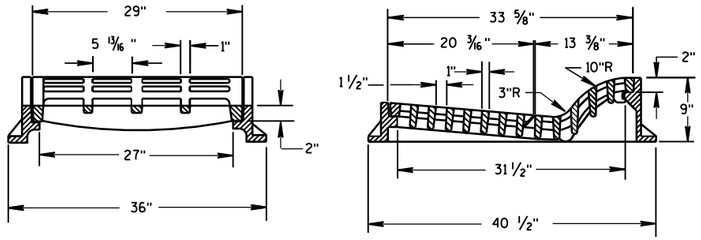
PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - STH 15 WB	SHEET 102 E

Standard Detail Drawing List

08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08D01-22A	CONCRETE CURB & GUTTER
08D01-22B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D02-07A	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D02-07B	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D02-07C	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D03-08A	CONCRETE SURFACE DRAINS DROP INLET TYPE AT STRUCTURES
08D03-08B	CONCRETE SURFACE DRAINS DROP INLET TYPE AT STRUCTURES
11A01-06	MAINTENANCE CROSSOVER FOR FREEWAYS
13A05-05A	SHOULDER RUMBLE STRIP, MILLING
13A05-05B	SHOULDER RUMBLE STRIP, MILLING
13B02-09A	CONCRETE PAVEMENT APPROACH SLAB
13B02-09B	STRUCTURAL APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C11-13A	RURAL DOWELED CONCRETE PAVEMENT
13C11-13B	RURAL DOWELED CONCRETE PAVEMENT
13C18-07A	CONCRETE PAVEMENT JOINTING
13C18-07B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-07C	CONCRETE PAVEMENT JOINT TYPES
13C18-07D	CONCRETE PAVEMENT JOINT TYPES AT UTILITY FIXTURES
13C18-07F	CONCRETE PAVEMENT INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER
14B42-07A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B47-03A	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-03B	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-03C	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-03D	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-03E	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-03F	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-03G	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
15C08-21A	LONGITUDINAL MARKING (MAINLINE)
15D29-06	TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD

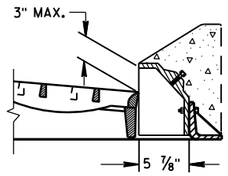
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TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

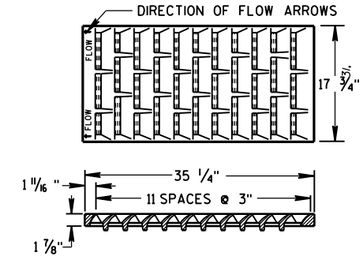
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

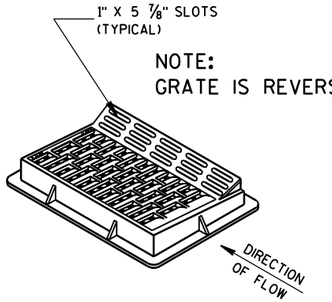
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

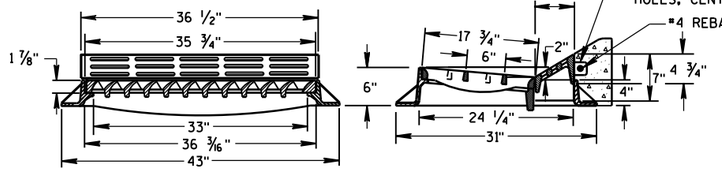
GENERAL NOTES

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 INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.



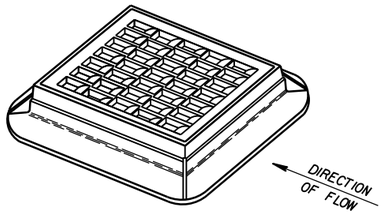


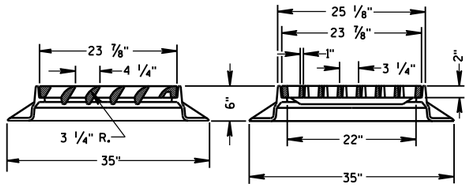


TYPE "HM"

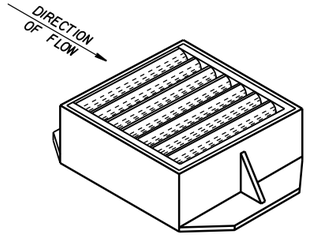
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

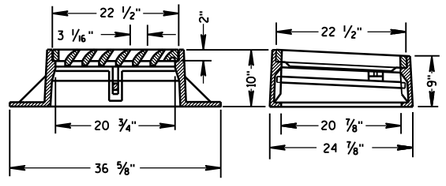
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



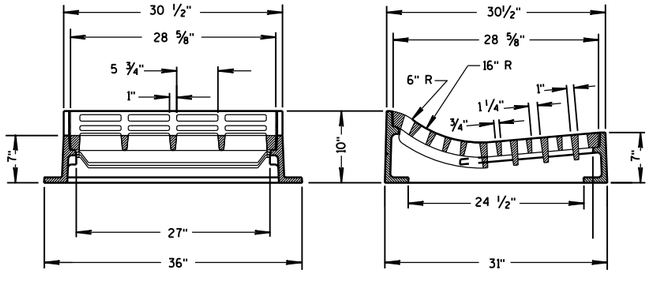


TYPE "S"



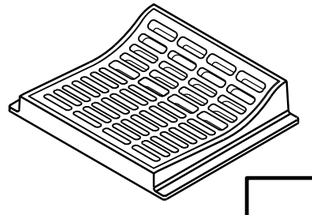


TYPE "V"



TYPE "T"

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.



INLET COVERS
TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

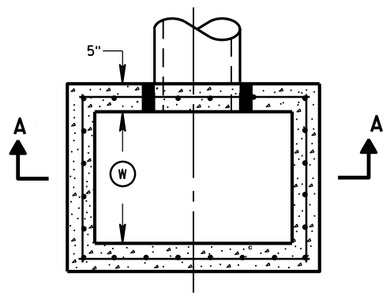
FHWA

6

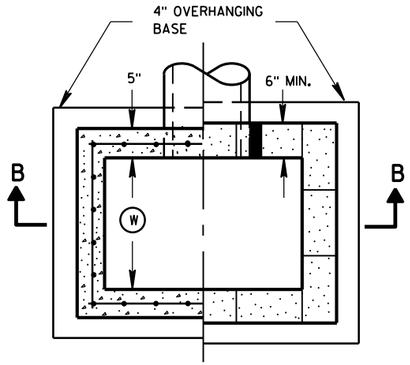
S.D.D. 8 A 5-19c

6

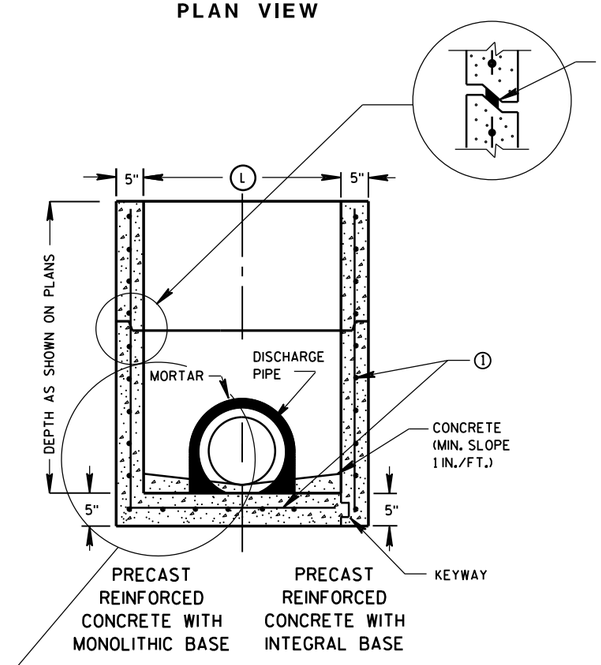
S.D.D. 8 A 5-19c



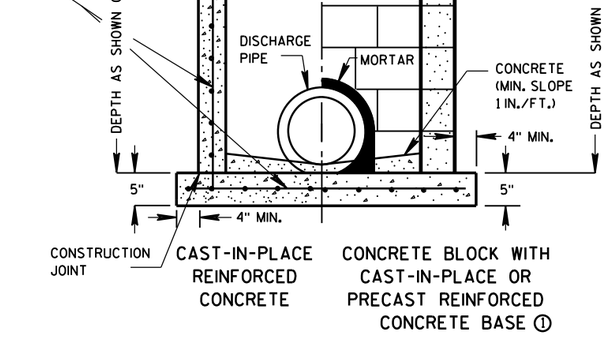
PLAN VIEW



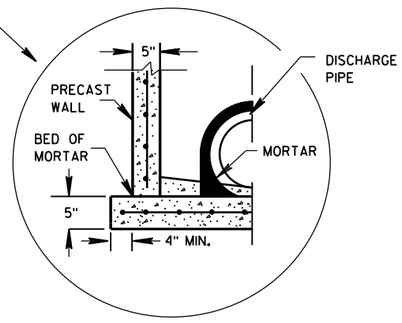
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

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 UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

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

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES 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.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH 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.

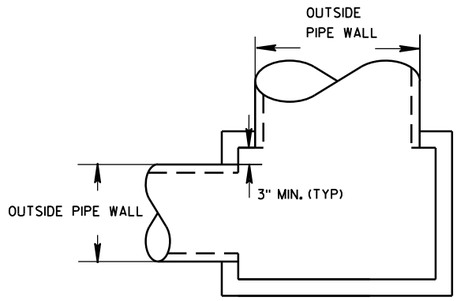
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH Ⓦ (FT)	LENGTH Ⓛ (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



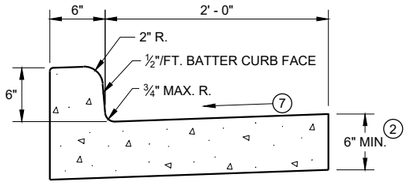
DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

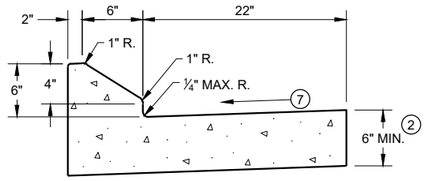
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS D IT
UNIT SUPERVIS
FHWA

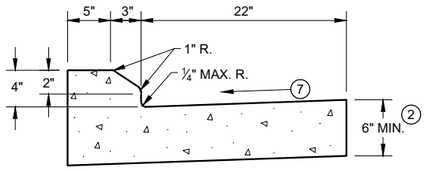
6
S.D.D. 8 C 7-2



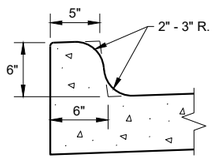
TYPES A[1] & D



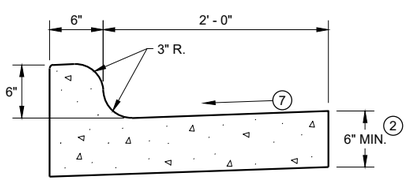
6" SLOPED CURB TYPES G[1] & J



4" SLOPED CURB TYPES G[1] & J

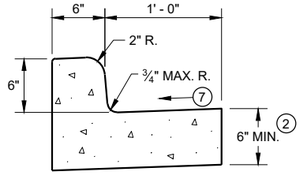


TYPES K[1] & L
(OPTIONAL CURB SHAPE)



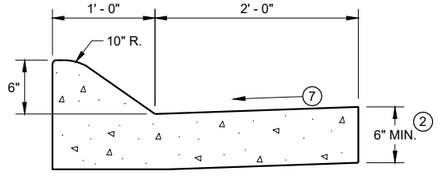
TYPES K[1] & L

CONCRETE CURB AND GUTTER 30"



TYPES A[1] & D

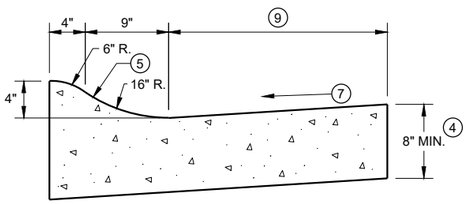
CONCRETE CURB AND GUTTER 18"



6" SLOPED CURB TYPES A[1] & D

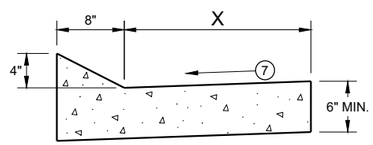
4" SLOPED CURB TYPES A[1] & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R[1] & T

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

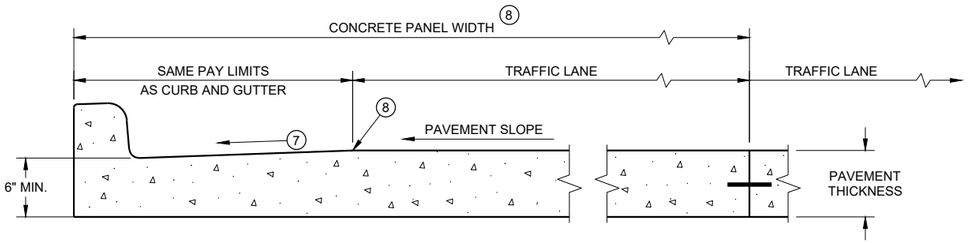


TYPES TBT & TBTT[1]

CONCRETE CURB AND GUTTER

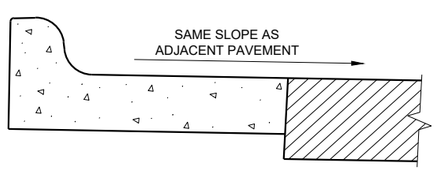
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT * WITH INTEGRAL CURB AND GUTTER

* BIKE LANE IS NOT SHOWN



REVERSE SLOPE GUTTER[6]
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

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

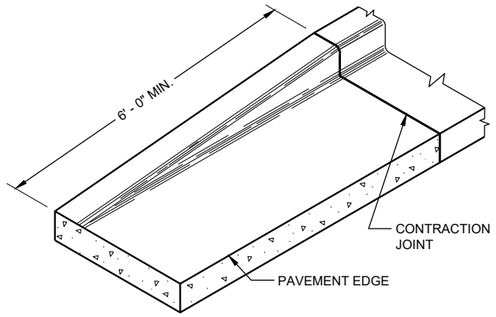
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

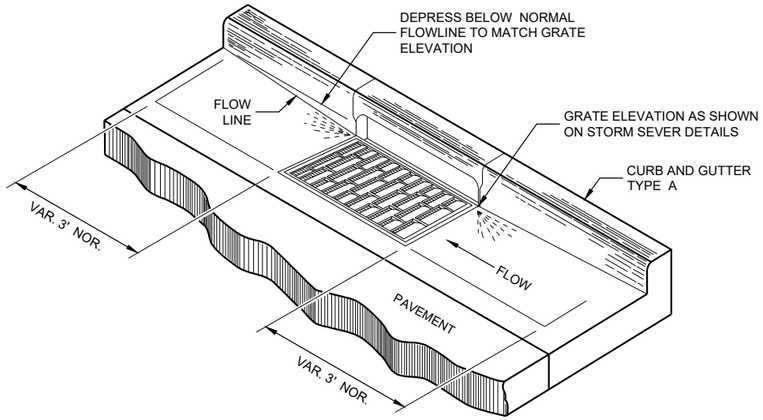
UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

1. TIE BARS ARE REQUIRED FOR CURB AND GUTTERS 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. UNLESS OTHERWISE NOTED, FOR STAKING PURPOSES 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.
7. USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.
8. INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.
9. CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE "R" AND "T" = 17 INCHES
   CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE "R" AND "T" = 23 INCHES

CONCRETE CURB AND GUTTER



END SECTIONCURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS

(TYPICAL H INLET COVER SHOWN)

GENERAL NOTES

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

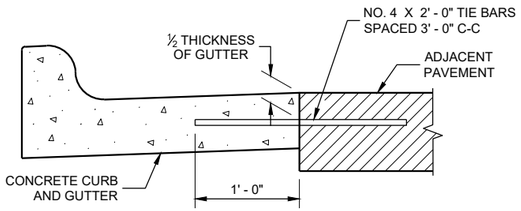
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

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

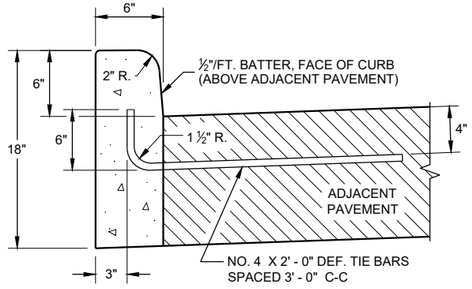
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

(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.

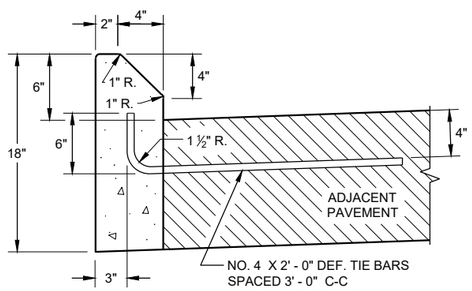
(9) REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



TYPICAL TIE BAR LOCATION (1)

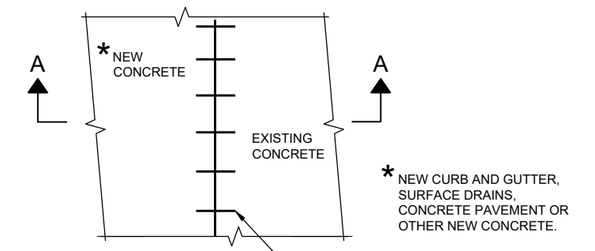


TYPES A (1) & D

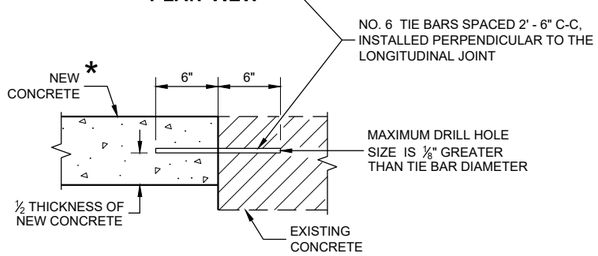


TYPES G (1) & J

CONCRETE CURB

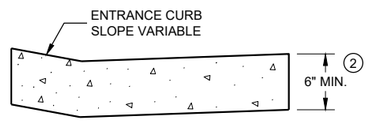


PLAN VIEW



SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021 — DATE
/S/ Rodnery Taylor — ROADWAY STANDARDS DEVE ENGINEER
FHWA

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SDD08D01 - 22b

SDD08D01 - 22b

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.

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

(1) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.

(2) NO. 4 X 2' - 0" TIE BARS SPACED AT 12" C-C TO BE PLACED BY BRIDGE CONTRACTOR OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.

(3) PAVED CONCRETE SHOULDER (SDD 13A03) OR CONCRETE DRAINAGE SLAB.

(4) CONCRETE PAVEMENT APPROACH SLAB (SHOWN) OR STRUCTURE APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB. SEE SDD 13B02.

(5) PAVED CONCRETE SHOULDER (SDD 13A03) OR ASPHALT SHOULDER.

(6) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBT OR TBTT. USE TYPE TBTT CURB WITH NO. 4 X 2' -0" TIE BARS SPACED AT 3' - 0" C-C ONLY WHEN ADJACENT TO CONCRETE PAVEMENTS.

(7) PLACE FLUME BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)

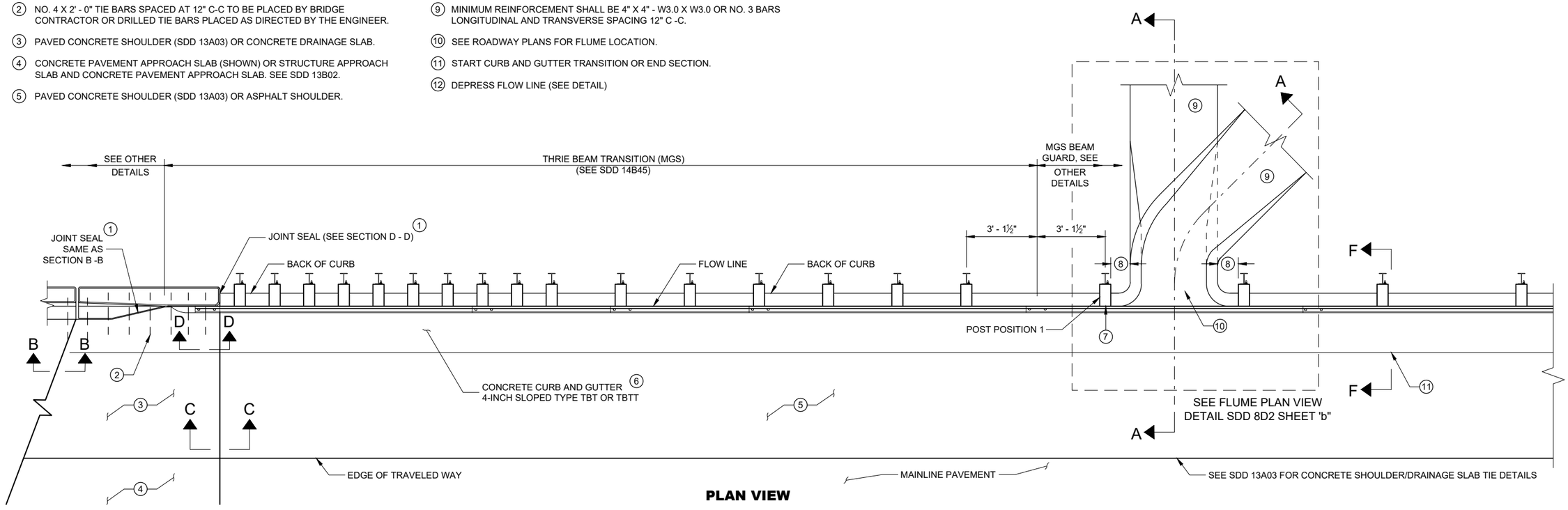
(8) CENTER FLUME BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE EDGE OF FLUME TO POSTS.

(9) MINIMUM REINFORCEMENT SHALL BE 4" X 4" - W3.0 X W3.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C -C.

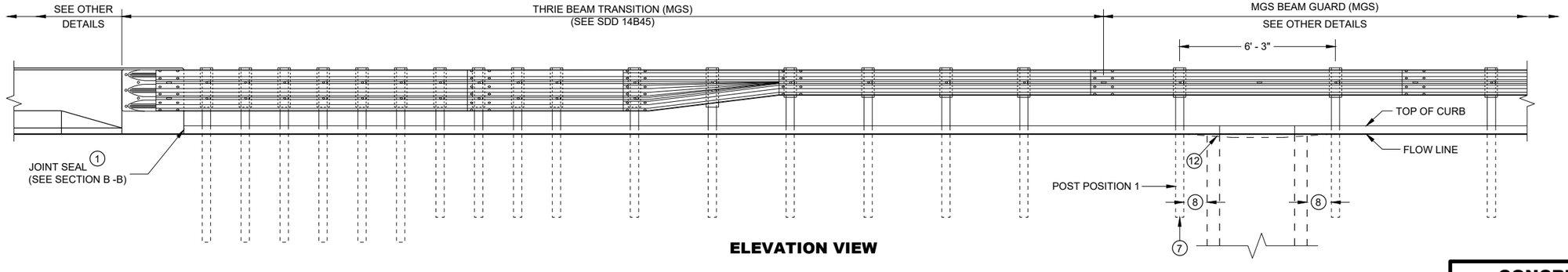
(10) SEE ROADWAY PLANS FOR FLUME LOCATION.

(11) START CURB AND GUTTER TRANSITION OR END SECTION.

(12) DEPRESS FLOW LINE (SEE DETAIL)



PLAN VIEW



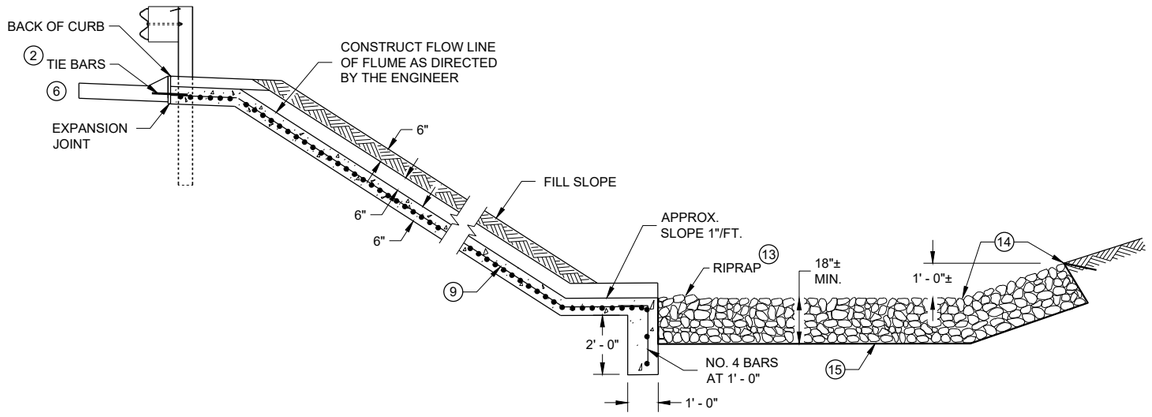
ELEVATION VIEW

CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

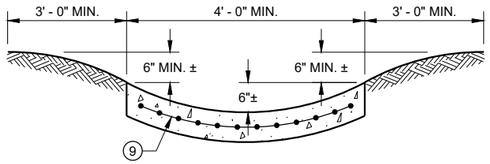
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 08D02 - 07a

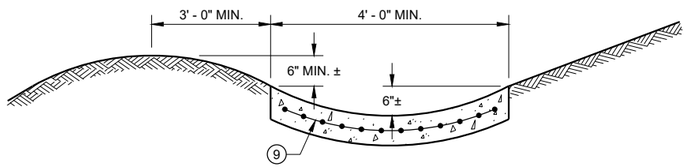
SDD 08D02 - 07a



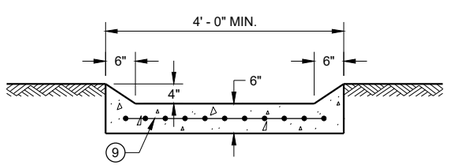
SECTION A - A



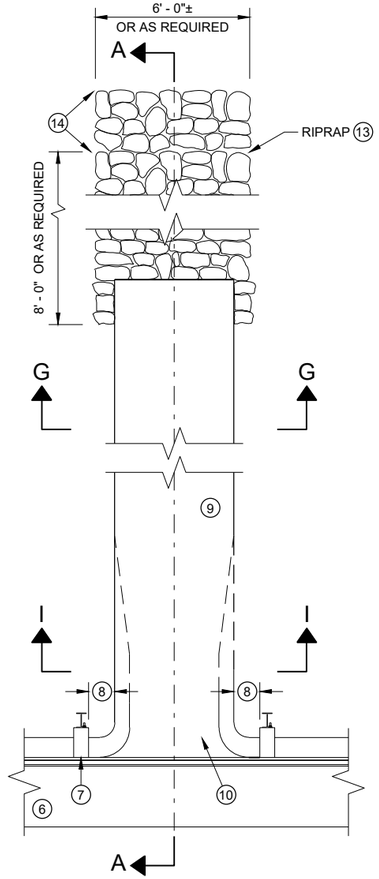
SECTION G - G



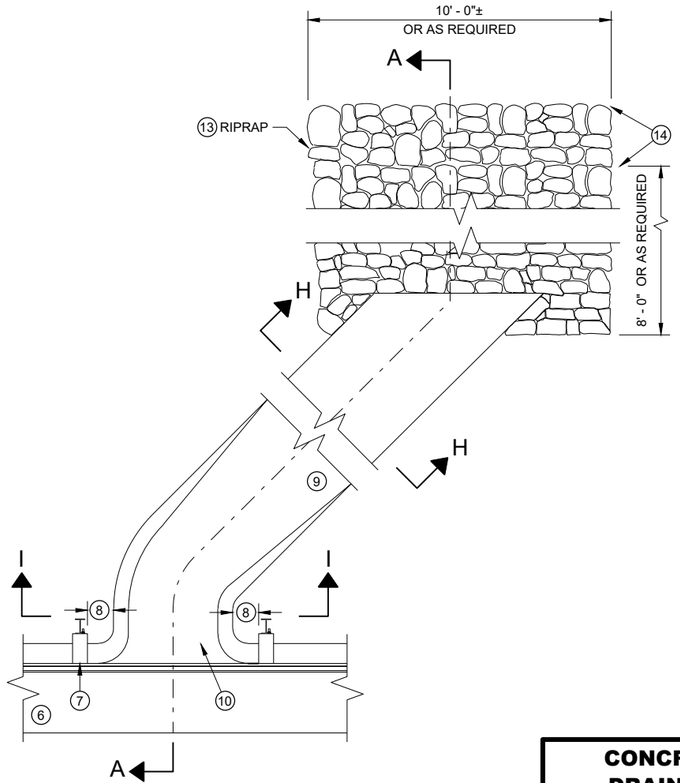
SECTION H - H



SECTION I - I



PLAN VIEW PERPENDICULAR FLUME



PLAN VIEW SKEWED FLUME

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.

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

1. USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.
2. NO. 4 X 2' - 0" TIE BARS SPACED AT 12" C-C TO BE PLACED BY BRIDGE CONTRACTOR OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.
3. PAVED CONCRETE SHOULDER (SDD 13A03) OR CONCRETE DRAINAGE SLAB.
4. CONCRETE PAVEMENT APPROACH SLAB (SHOWN) OR STRUCTURE APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB. SEE SDD 13B02 AND STRUCTURE PLANS.
5. PAVED CONCRETE SHOULDER (SDD 13A03) OR ASPHALT SHOULDER.
6. CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBT OR TBTT. USE TYPE TBTT CURB WITH NO. 4 X 2' -0" TIE BARS SPACED AT 3' - 0" C-C ONLY WHEN ADJACENT TO CONCRETE PAVEMENTS.
7. PLACE FLUME BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)
8. CENTER FLUME BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE EDGE OF FLUME TO POSTS.
9. MINIMUM REINFORCEMENT SHALL BE 4" X 4" - W3.0 X W3.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C -C.
10. SEE ROADWAY PLANS FOR FLUME LOCATION.
11. START CURB AND GUTTER TRANSITION OR END SECTION.
12. DEPRESS FLOW LINE (SEE DETAIL)
13. MEDIUM RIPRAP UNLESS OTHERWISE SPECIFIED.
14. LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH AS REQUIRED.
15. GEOTEXTILE FABRIC TYPE HR.

CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

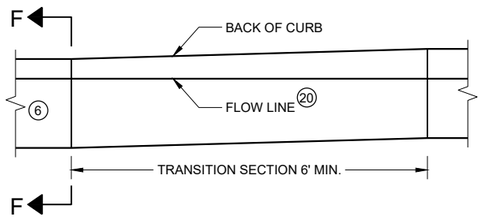
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTAT

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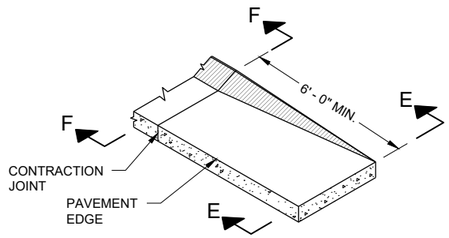
SDD 08D02 - 07b

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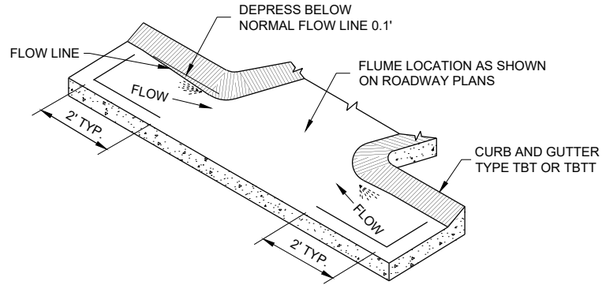
SDD 08D02 - 07b



CURB AND GUTTER TRANSITION SECTION
CONCRETE CURB AND GUTTER 4-INCH SLOPED 36 INCH TYPE TBT OR TBTT



CURB AND GUTTER END SECTION
CONCRETE CURB AND GUTTER 4-INCH SLOPED 36 INCH TYPE TBT OR TBTT



CURB AND GUTTER FLOW LINE DEPRESSION AT FLUMES CONCRETE CURB AND GUTTER 4-INCH SLOPED 36 INCH TYPE TBT OR TBTT

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.

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(1) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.

(2) NO. 4 X 2' - 0" TIE BARS SPACED AT 12" C-C TO BE PLACED BY BRIDGE CONTRACTOR OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.

(3) PAVED CONCRETE SHOULDER (SDD 13A03) OR CONCRETE DRAINAGE SLAB.

(4) CONCRETE PAVEMENT APPROACH SLAB (SHOWN) OR STRUCTURE APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB. SEE SDD 13B02 AND STRUCTURE PLANS.

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(7) PLACE FLUME BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)

(8) CENTER FLUME BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE EDGE OF FLUME TO POSTS.

(9) MINIMUM REINFORCEMENT SHALL BE 4" X 4" - W3.0 X W3.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C -C.

(10) SEE ROADWAY PLANS FOR FLUME LOCATION.

(11) START CURB AND GUTTER TRANSITION OR END SECTION.

(12) DEPRESS FLOW LINE (SEE DETAIL)

(13) MEDIUM RIPRAP UNLESS OTHERWISE SPECIFIED.

(14) LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH IS REQUIRED.

(15) GEOTEXTILE FABRIC TYPE HR.

(16) MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C - C.

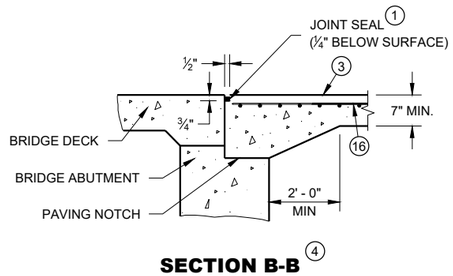
(17) MSG THRIE BEAM TRANSITION POST 1. SEE SDD 14B45 FOR ADDITIONAL CONSTRUCTION DETAILS AND ACCEPTABLE MATERIALS.

(18) MAINTAIN WIDTH, THICKNESS AND CROSS SLOPE OF ADJACENT TYPE TBT OR TBTT CURB. SEE NOTE 6 FOR TIE BAR SPACING.

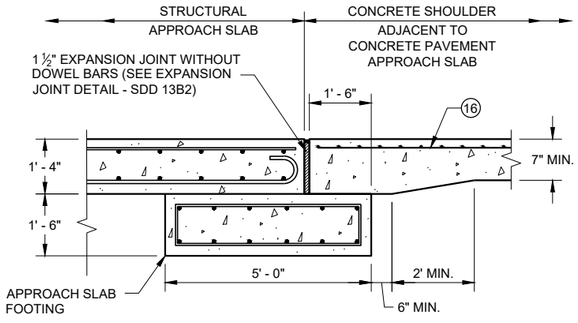
(19) ALIGN FACE OF POST BLOCK WITH FLOW LINE.

(20) MAINTAIN FLOW LINE AT EDGE OF PAVEMENT/FACE OF BEAM GUARD AS APPLICABLE.

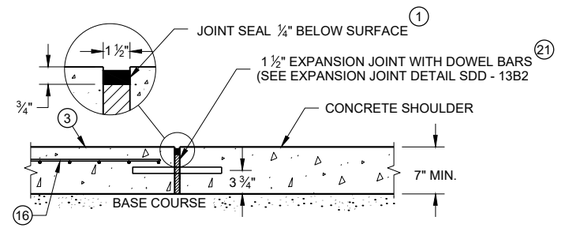
(21) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING HMA PAVEMENTS.



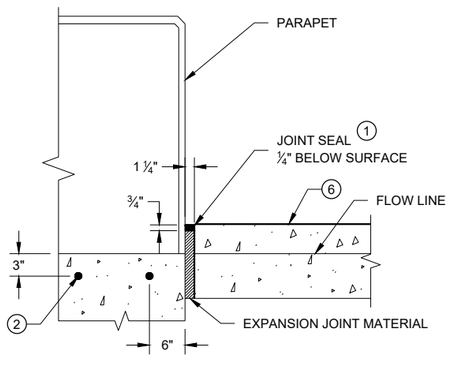
SECTION B-B (4)



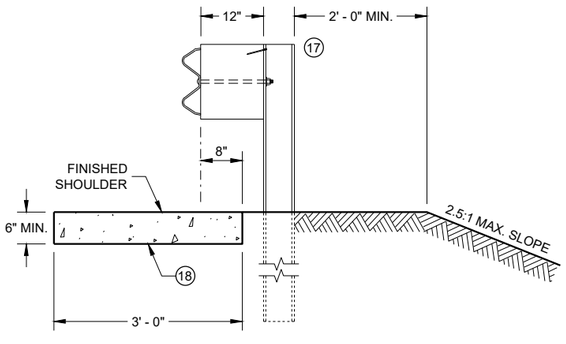
SECTION C - C
JOINT DETAIL FOR BRIDGE WITH STRUCTURAL APPROACH SLAB AND CONCRETE APPROACH SLAB



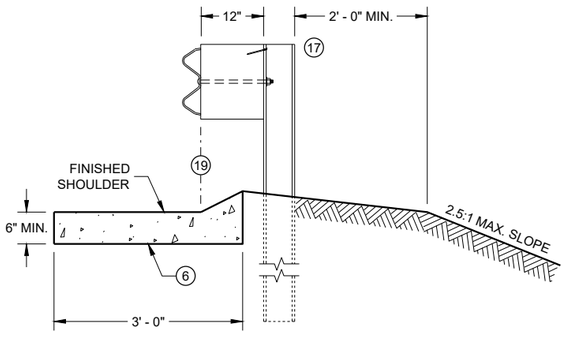
SECTION C - C
JOINT DETAIL FOR BRIDGE APPROACH WITH CONCRETE SHOULDERS



SECTION D - D



SECTION E - E



SECTION F - F

CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER

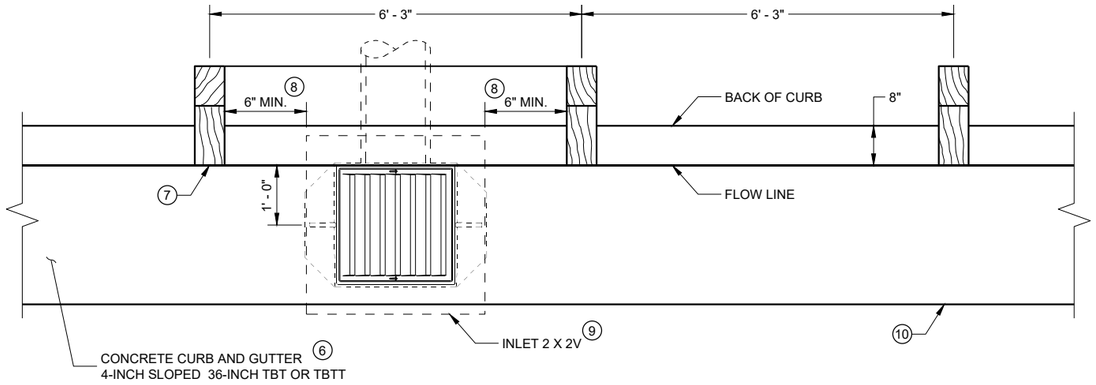
FHWA

SDD 08D02 - 07c

SDD 08D02 - 07c

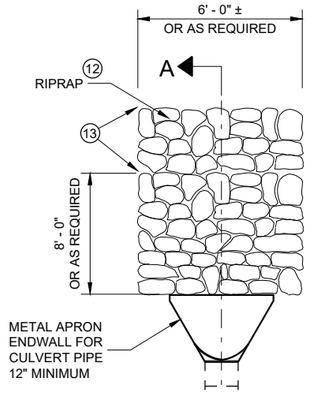
6

6



INLET PLAN VIEW

(NOTE: RAIL NOT SHOWN FOR CLARITY)



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.

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

(1) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.

(2) NO. 4 X 2' - 0" TIE BARS SPACED AT 12" C-C TO BE PLACED BY BRIDGE CONTRACTOR OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.

(3) PAVED CONCRETE SHOULDER (SDD 13A03) OR CONCRETE DRAINAGE SLAB.

(4) CONCRETE PAVEMENT APPROACH SLAB (SHOWN) OR STRUCTURE APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB. SEE SDD 13B02.

(5) PAVED CONCRETE SHOULDER (SDD 13A03) OR ASPHALT SHOULDER.

(6) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBT OR TBTT. USE TYPE TBTT CURB WITH NO. 4 X 2' -0" TIE BARS SPACED AT 3' - 0" C-C ONLY WHEN ADJACENT TO CONCRETE PAVEMENTS.

(7) PLACE DRAINAGE STRUCTURE BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)

(8) CENTER DRAINAGE STRUCTURE BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE WALL OF DRAINAGE STRUCTURE TO POSTS.

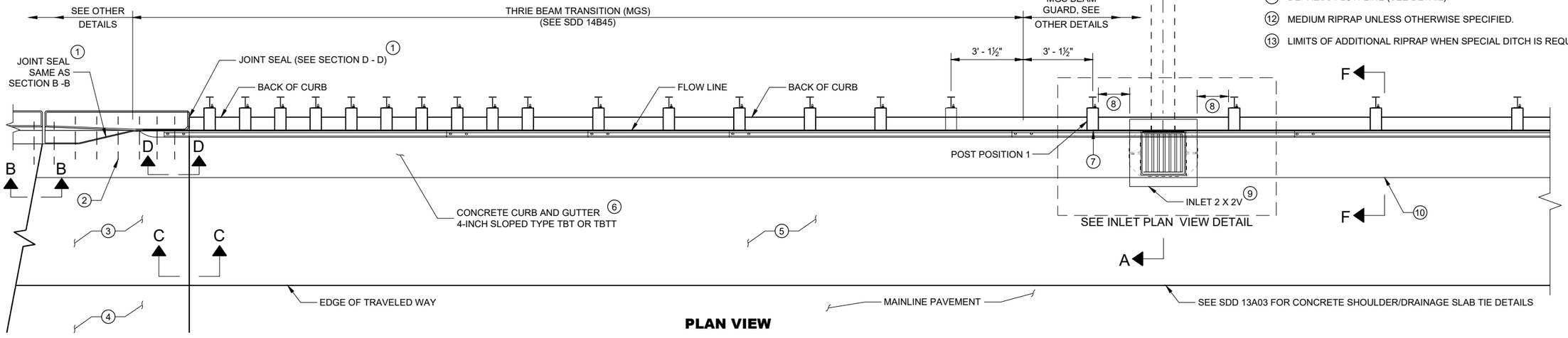
(9) SEE SDD 08A05 AND 08C07 FOR DETAILS. SEE ROADWAY PLANS FOR LOCATION.

(10) START CURB AND GUTTER TRANSITION OR END SECTION.

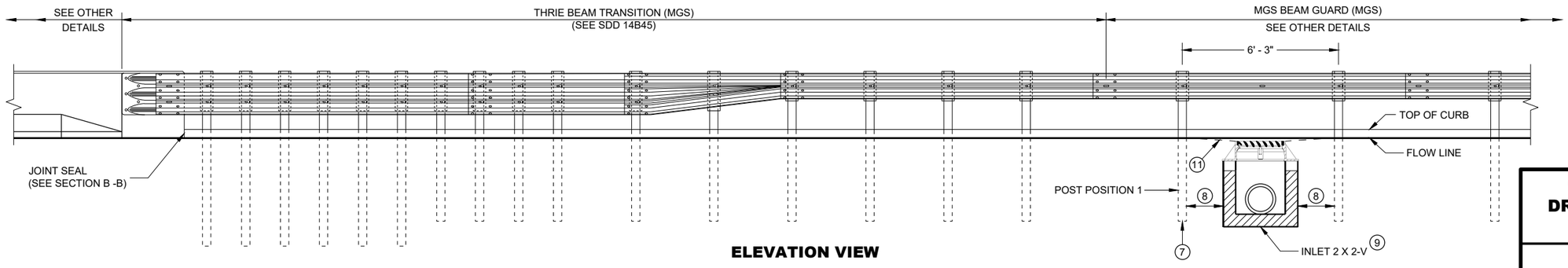
(11) DEPRESS FLOW LINE (SEE DETAIL)

(12) MEDIUM RIPRAP UNLESS OTHERWISE SPECIFIED.

(13) LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH IS REQUIRED.



PLAN VIEW



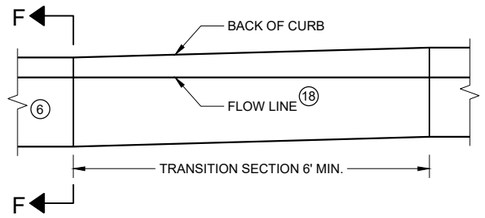
ELEVATION VIEW

CONCRETE SURFACE DRAINS DROP INLET TYPE AT STRUCTURES

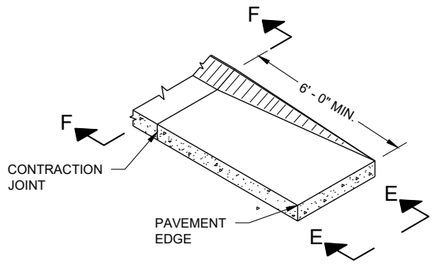
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

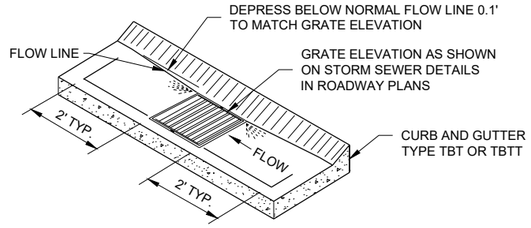
SDD 08D03 - 08a



CURB AND GUTTER TRANSITION SECTION CONCRETE CURB AND GUTTER 4-INCH SLOPED 36 INCH TYPE TBT OR TBTT



CURB AND GUTTER END SECTION CONCRETE CURB AND GUTTER 4-INCH SLOPED 36 INCH TYPE TBT OR TBTT



CURB AND GUTTER FLOW LINE DEPRESSION AT INLETS CONCRETE CURB AND GUTTER 4-INCH SLOPED 36 INCH TYPE TBT OR TBTT

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.

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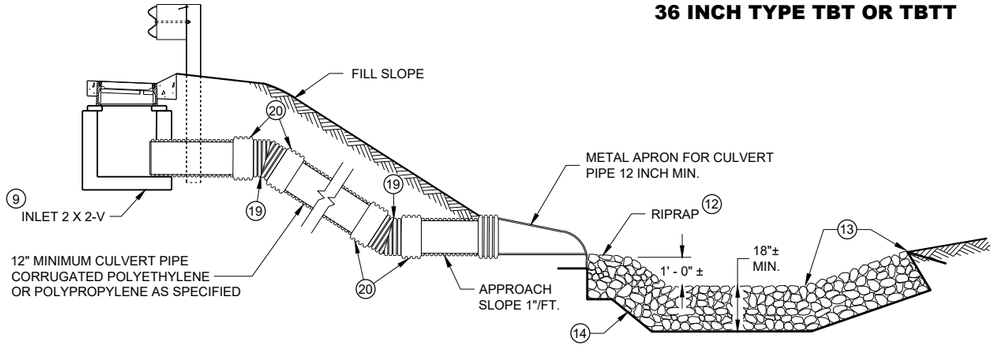
(18) MAINTAIN FLOW LINE AT EDGE OF PAVEMENT/FACE OF BEAM GUARD AS APPLICABLE.

(19) MANUFACTURER SUPPLIED BEND.

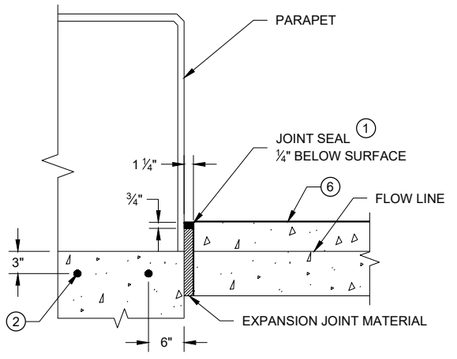
(20) MANUFACTURER SUPPLIED EXTERNAL MECHANICAL COUPLING OR A MANUFACTURER RECOMMENDED COUPLING WITH A MASTIC IMPREGNATED GEOTEXTILE WRAP AND MECHANICAL FASTENING BANDS.

(21) MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C - C.

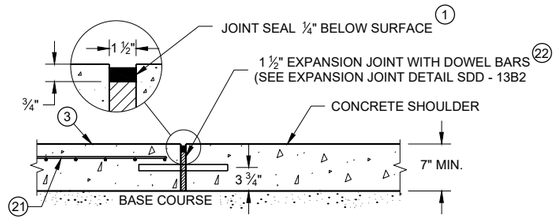
(22) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING HMA PAVEMENTS.



SECTION A - A

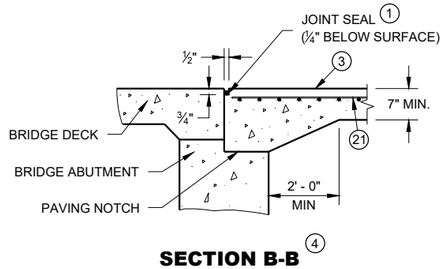


SECTION D - D

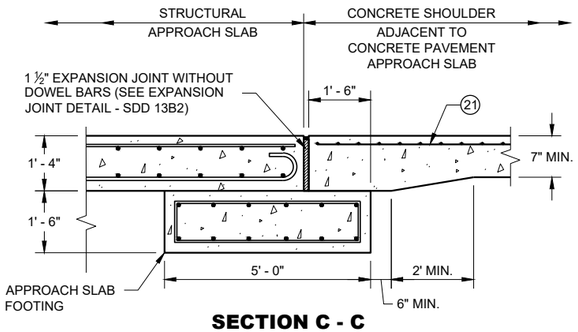


SECTION C - C

JOINT DETAIL FOR BRIDGE APPROACH WITH CONCRETE SHOULDERS

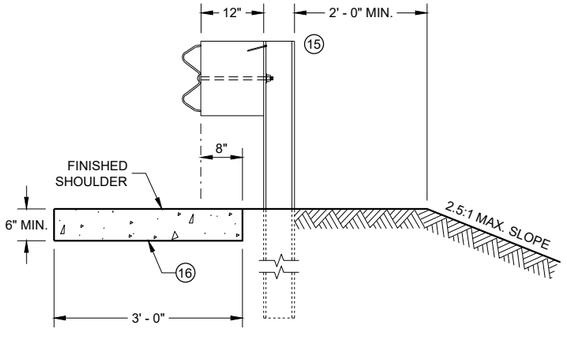


SECTION B-B (4)

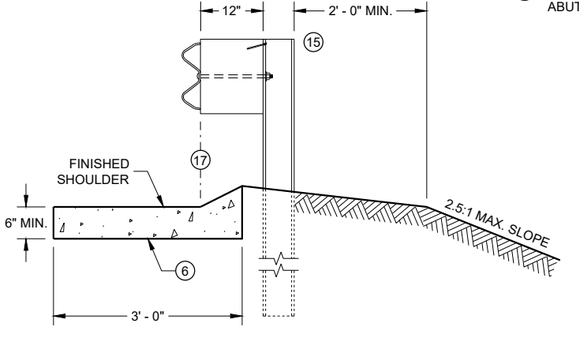


SECTION C - C

JOINT DETAIL FOR BRIDGE WITH STRUCTURAL APPROACH SLAB AND CONCRETE APPROACH SLAB



SECTION E - E



SECTION F - F

CONCRETE SURFACE DRAINS DROP INLET TYPE AT STRUCTURES

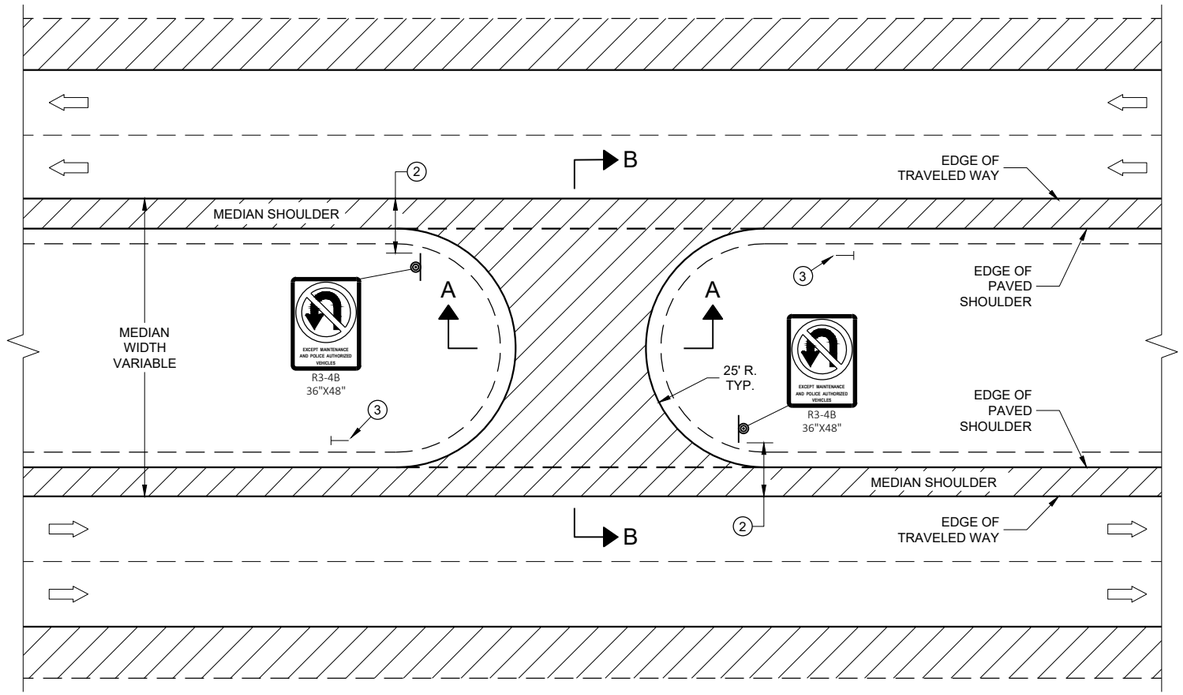
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER

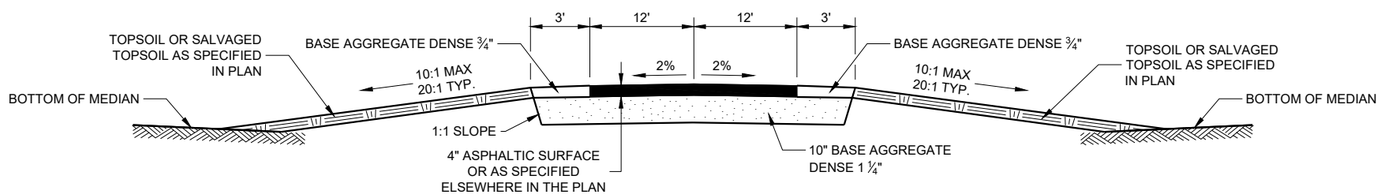
FHWA

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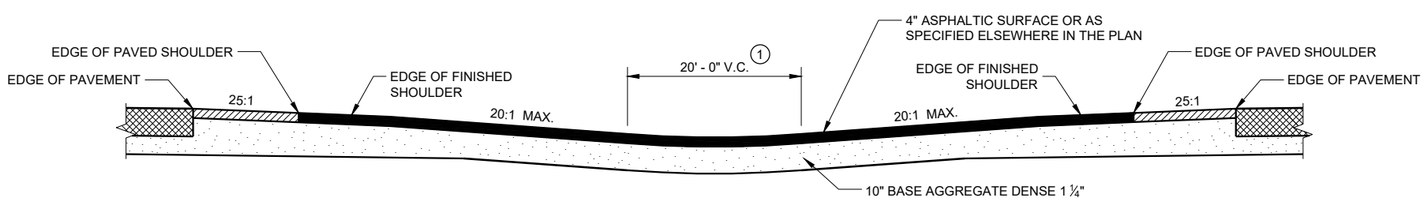
SDD 08D03 - 08b
SDD 08D03 - 08b



PLAN VIEW



SECTION A-A



SECTION B-B

GENERAL NOTES

1. ADJUST VERTICAL CURVE LOCATION LATERALLY TO MAINTAIN 20:1 MAX.
2. SIGNING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.
3. INSTALL DELINEATOR. SEE STANDARD DETAIL DRAWING 15A4.

LEGEND

- SIGN ON PERMANENT SUPPORT
- DELINEATOR
- DIRECTION OF TRAFFIC

MAINTENANCE CROSSOVER FOR FREEWAYS

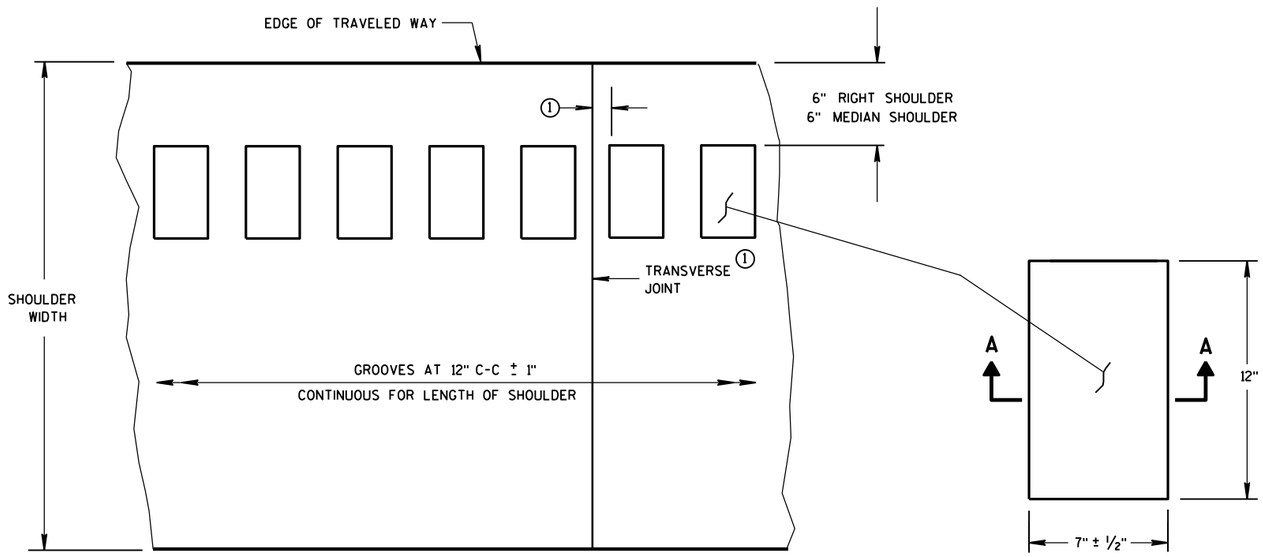
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

6
SDD 11A01 - 06



PLAN VIEW
SHOULDER WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR MILLED RUMBLE STRIP

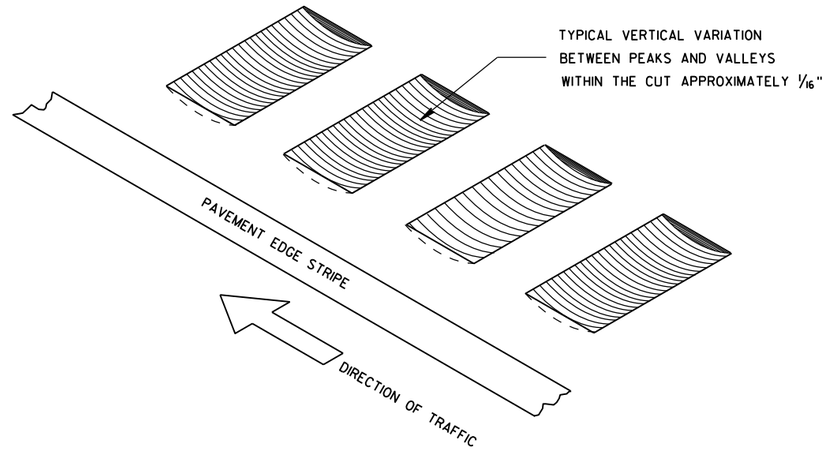
GENERAL NOTES

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

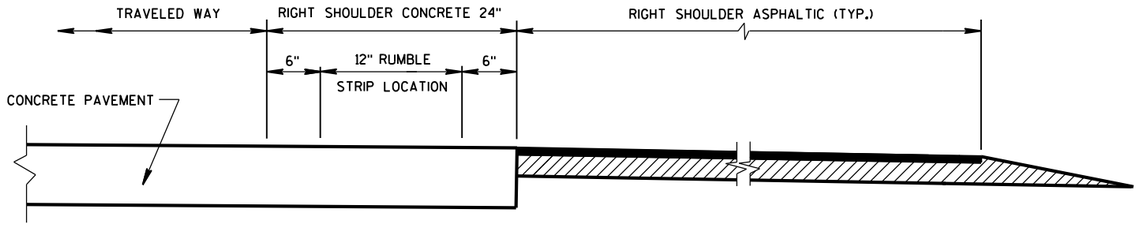
RUMBLE STRIPS ON EXPRESSWAYS

DO NOT INSTALL RUMBLE STRIPS ACROSS SIDE ROAD INTERSECTIONS, COMMERCIAL DRIVEWAYS, PRIVATE DRIVEWAYS OR ADJACENT TO RIGHT TURN LANES, LEFT TURN LANES, TURN LANE TAPERS, BRIDGE DECKS, BRIDGE APPROACHES, OR 100 FEET IN ADVANCE OF RAILROAD CROSSING. THE ATTACHED STANDARD DETAIL DRAWING SHOWS THE LOCATION OF THE RUMBLE STRIPS AT INTERCHANGE AREAS.

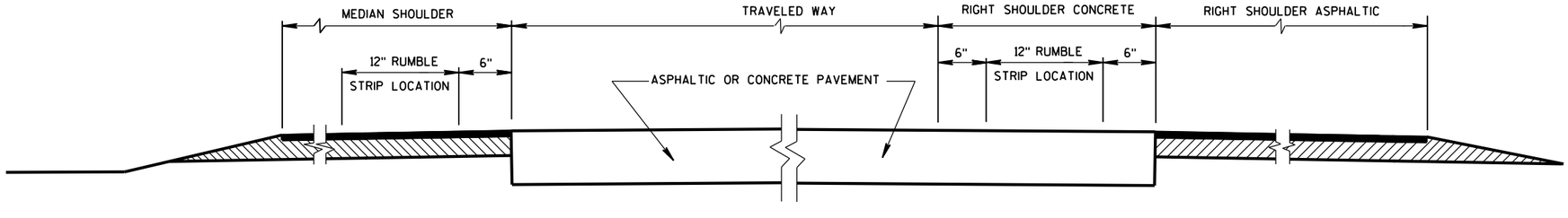
(1) CONCRETE PAVEMENT - RUMBLE STRIPS SHALL BE A MINIMUM OF 6" AWAY FROM TRANSVERSE JOINTS.



ISOMETRIC



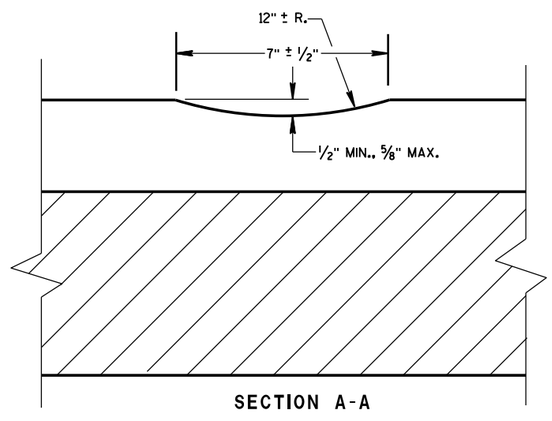
SECTION VIEW
CONCRETE PAVEMENT EXTENDS INTO RIGHT SHOULDER)



SECTION VIEW

TYPICAL LOCATIONS OF SHOULDER RUMBLE STRIPS IN RURAL DIVIDED HIGHWAYS

(ONE ROADWAY IS SHOWN)



SECTION A-A

SHOULDER RUMBLE STRIP, MILLING

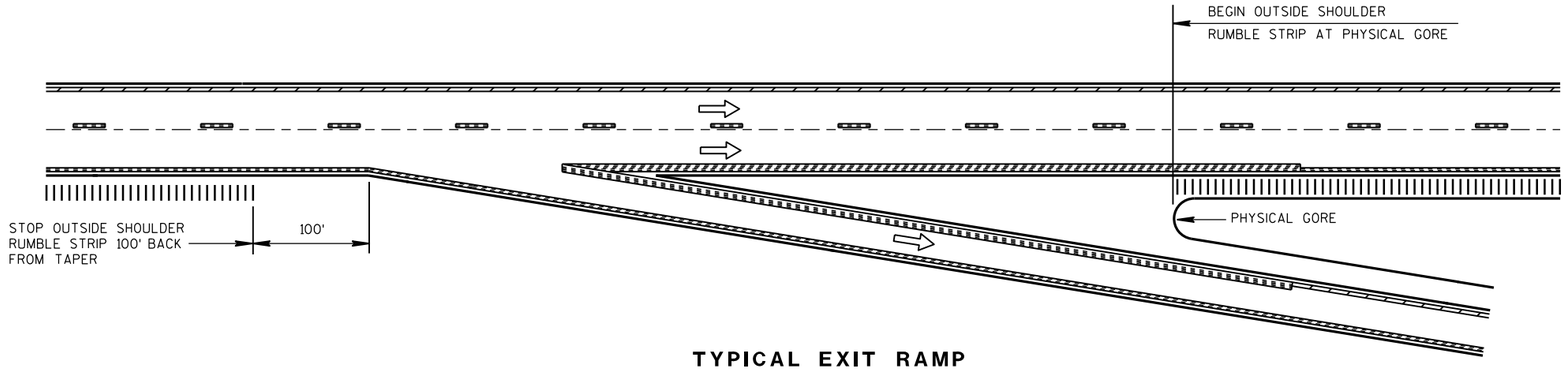
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 13 A 5-5a

6

S.D.D. 13 A 5-5a



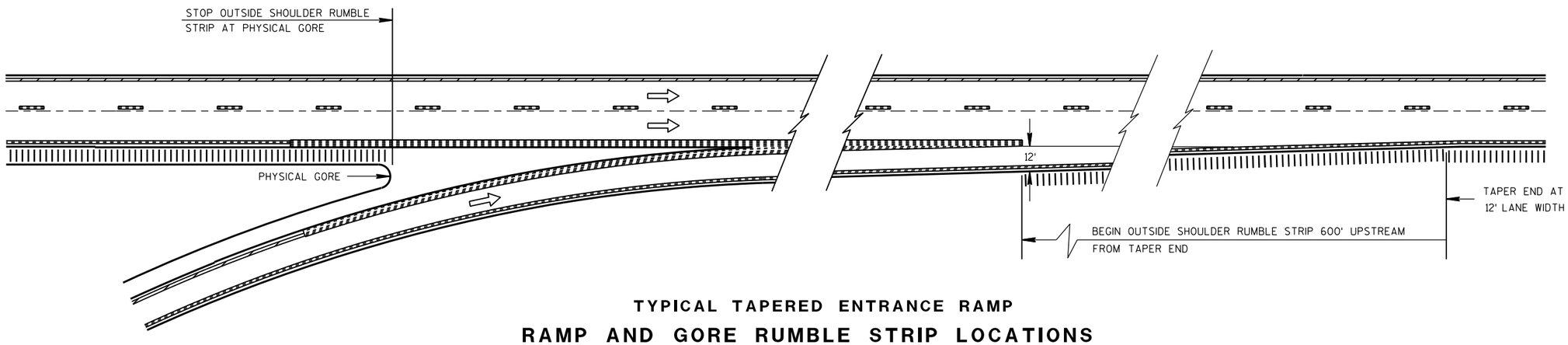
TYPICAL EXIT RAMP

NOTES:

NO RUMBLE STRIP ON EXIT, DIRECTIONAL, OR ENTRANCE RAMPS, EXCEPT NEAR THE ENTRANCE TAPER END AND ALONG THE PARALLEL RAMP AREA AS SHOWN.

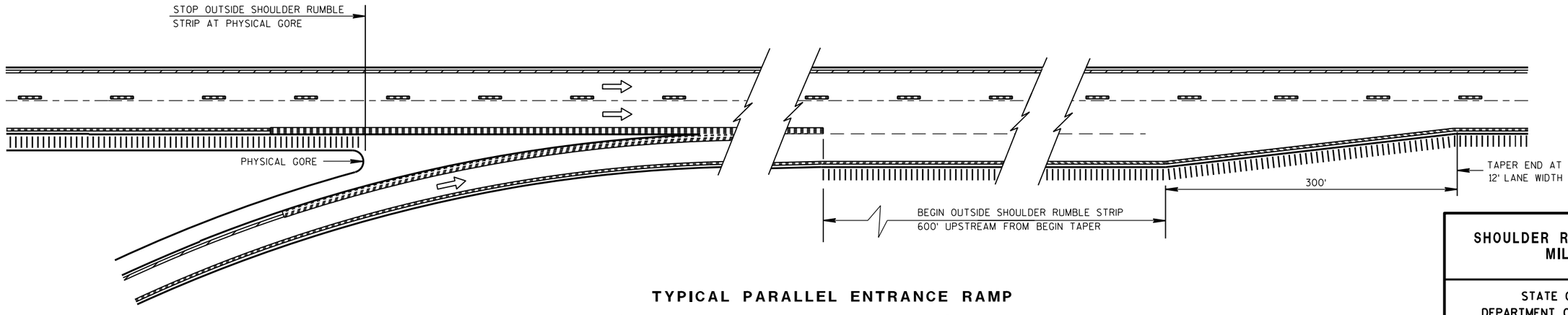
PAVEMENT MARKING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



TYPICAL TAPERED ENTRANCE RAMP

RAMP AND GORE RUMBLE STRIP LOCATIONS



TYPICAL PARALLEL ENTRANCE RAMP

RAMP AND GORE RUMBLE STRIP LOCATIONS

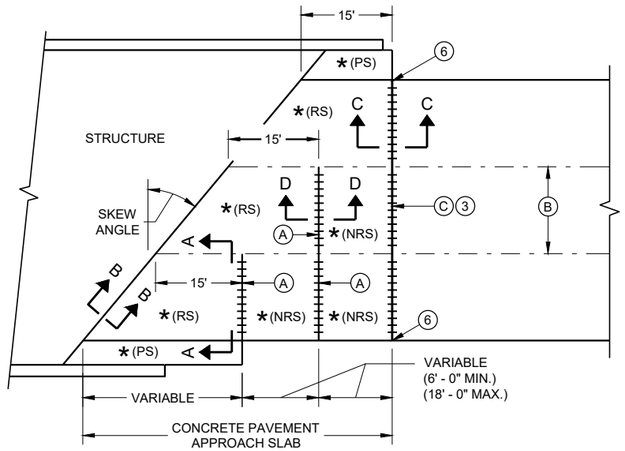
SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

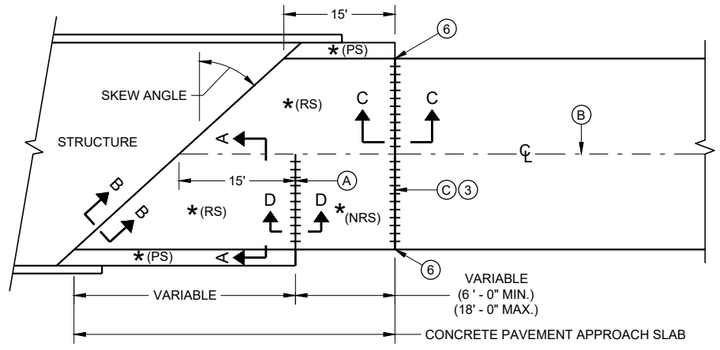
APPROVED
12/17/2012 — DATE
/S/ Jerry H. Zoga — ROADWAY STANDARDS ENGINEER
FHWA

6

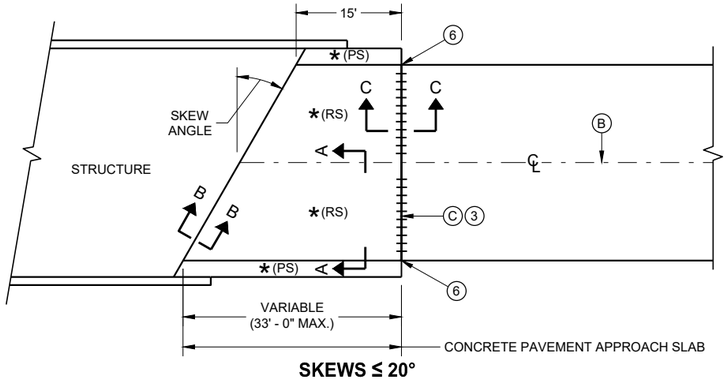
S.D.D. 13 A 5-5b



SKEWED APPROACH
(PAVEMENT MORE THAN TWO LANES)



SKEWS > 20°
(PAVEMENT WIDTH ≤ 30')



SKEWS ≤ 20°
(PAVEMENT WIDTH ≤ 30')

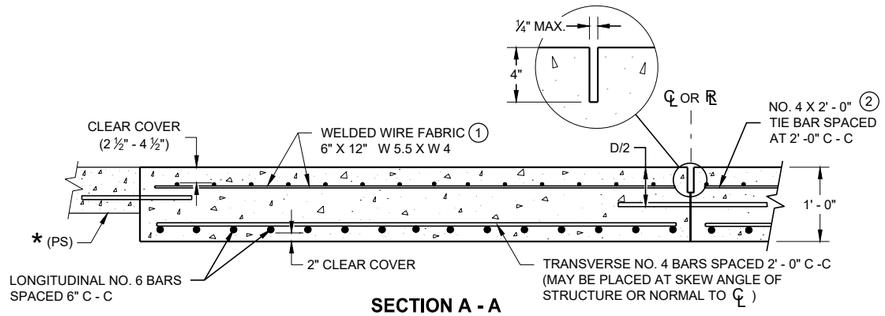
APPROACH SLAB AND ADJACENT PAVEMENT

(RS) = REINFORCED CONCRETE SLAB

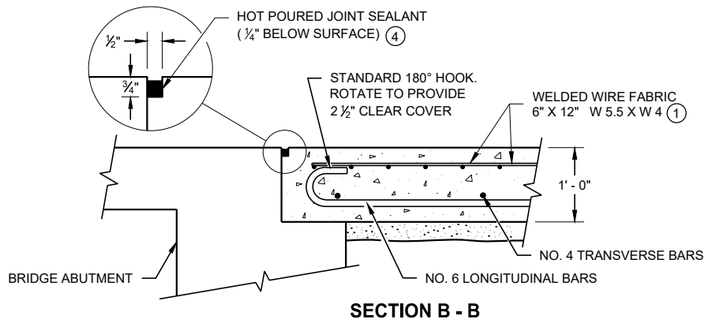
(PS) = PAVED CONCRETE SHOULDER OR CONCRETE DRAINAGE SLAB

(NRS) - NON - REINFORCED CONCRETE SLAB

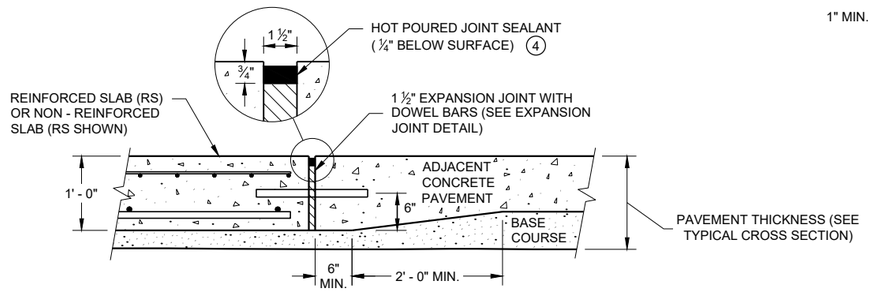
*** STANDARD DOWEL BAR DIAMETER (SEE SDD 13C11 AND SDD 13C13)



SECTION A - A
REINFORCEMENT POSITIONING DETAIL



SECTION B - B
BEND DETAIL
BOTTOM REINFORCEMENT



SECTION C - C
TRANSITION DETAIL
APPROACH SLAB TO ADJACENT PAVEMENT

GENERAL NOTES

THE CONTRACTOR MAY SPLICE NO. 6 BARS IN THE APPROACH SLAB FOR SKEWED STRUCTURES ONLY. STAGGER SPLICES WITH A MAXIMUM OF ONE SPLICE PER BAR. THE LENGTH OF LAP IS 20 INCHES.

TACK WELD DOWEL BARS TO THE BASKETS ON ALTERNATE ENDS.

(1) THE CONTRACTOR MAY USE NO. 4 BARS SPACED AT 2' - 0 " C - C IN BOTH THE LONGITUDINAL AND TRANSVERSE DIRECTIONS FOR TOP REINFORCEMENT AS AN ALTERNATIVE TO THE WELDED WIRE FABRIC.

(2) THE CONTRACTOR MAY OMIT THE BARS BETWEEN REINFORCED SLABS WHERE SLAB REINFORCEMENT BARS EXTEND ACROSS THE CENTERLINE OR REFERENCE LINE.

(3) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING AN HMA PAVEMENT.

(4) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.

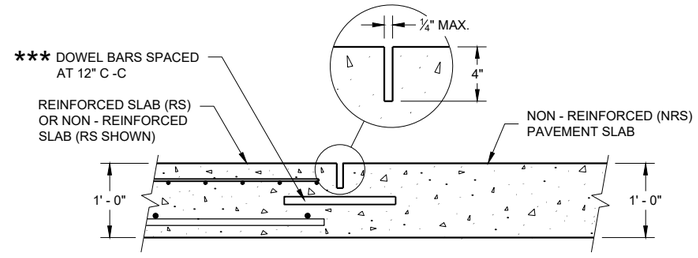
(5) PLACE EXPANSION CAP ON THE END OF THE DOWEL THAT IS NOT TACK WELDED TO THE BASKET. DO NOT FORCE DOWEL BAR PAST THE DOWEL STOP.

(6) EXTEND EXPANSION JOINT THROUGH ANY ADJACENT TIED CONCRETE.

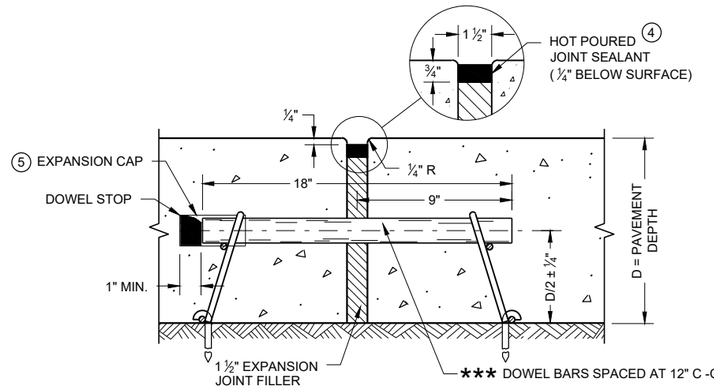
(A) STANDARD CONTRACTION JOINT NORMAL TO ℄ OR ℞.

(B) STANDARD LONGITUDINAL JOINT WITH TIE BARS.

(C) 1 ½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO ℄ OR ℞ .



SECTION D - D
CONTRACTION JOINT



EXPANSION JOINT DETAIL

CONCRETE PAVEMENT APPROACH SLAB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

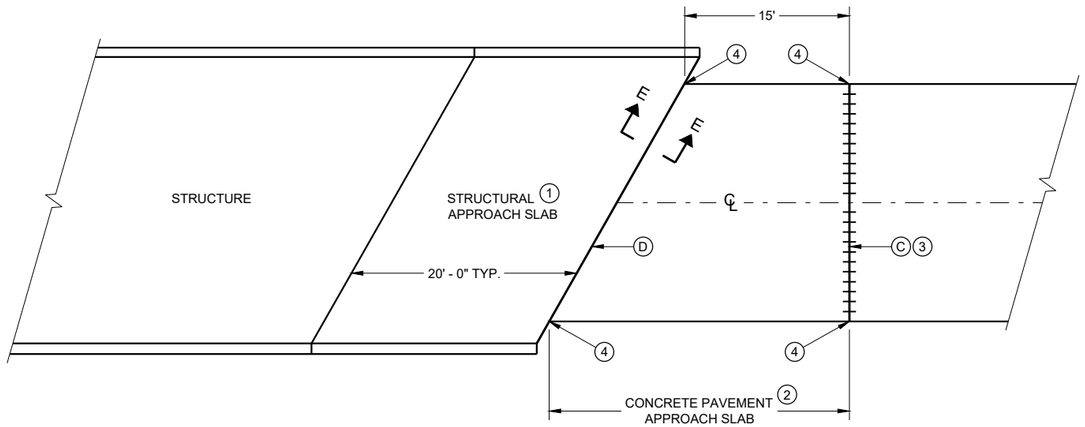
APPROVED
November 2018
DATE

/S/ Peter Kemp, P.E.
PAVEMENT SUPERVIS

FHWA

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SDD 13B02 - 09a



BRIDGE APPROACHES

GENERAL NOTES

ALL PROJECTS THAT INVOLVE A STRUCTURAL APPROACH SLAB WILL ALSO HAVE A CONCRETE PAVEMENT APPROACH SLAB.

(1) SEE BRIDGE PLAN.

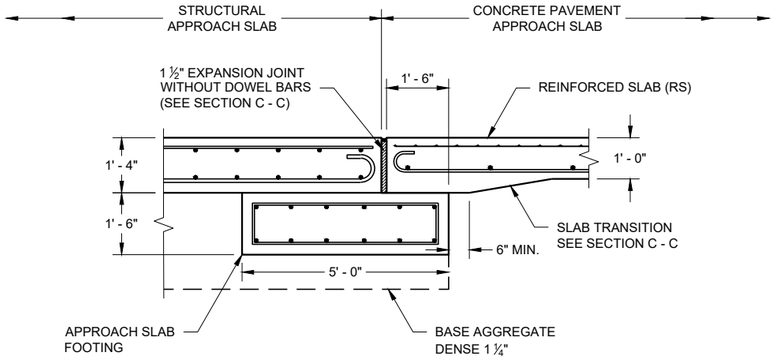
(2) CONFORM TO SDD 13B02 SHEET A FOR CONCRETE PAVEMENT APPROACH SLAB DETAILS

(3) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING AN HMA PAVEMENT.

(4) EXTEND EXPANSION JOINT THROUGH ANY ADJACENT TIED CONCRETE.

(C) 1 ½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO ℄ OR ℞.

(D) 1 ½" EXPANSION JOINT (NO DOWELS)



SECTION E - E
FOOTING DETAIL
STRUCTURAL APPROACH SLAB TO CONCRETE BRIDGE APPROACH

STRUCTURAL APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE
/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

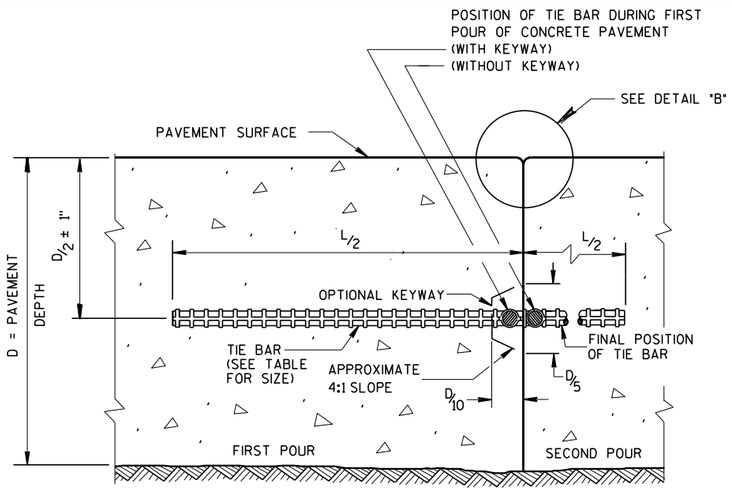
FHWA

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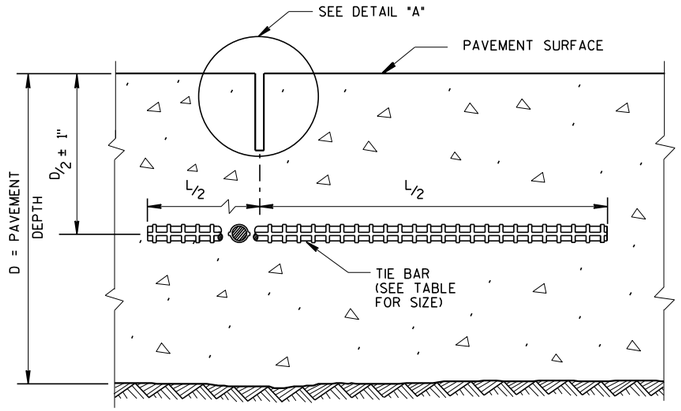
SDD 13B02 - 09b

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SDD 13B02 - 09b



CONSTRUCTION JOINT



SAWED JOINT

GENERAL NOTES

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

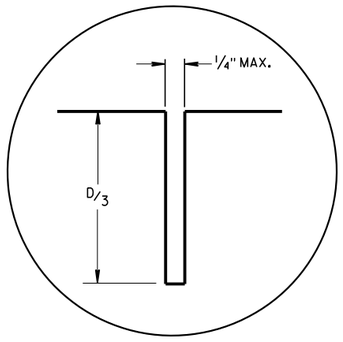
(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

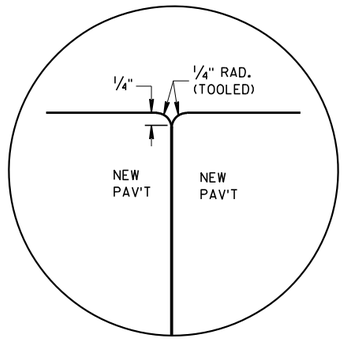
PLAN VIEW

SECTION A-A

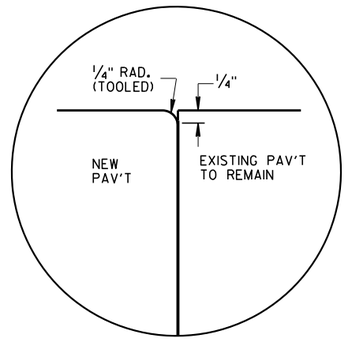
LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT



DETAIL "A"



DETAIL "B"



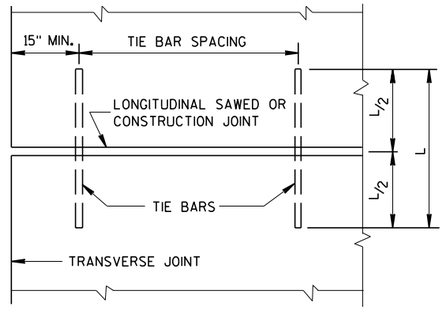
DETAIL "C"

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.



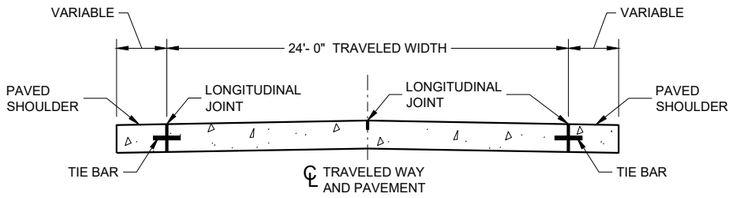
PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

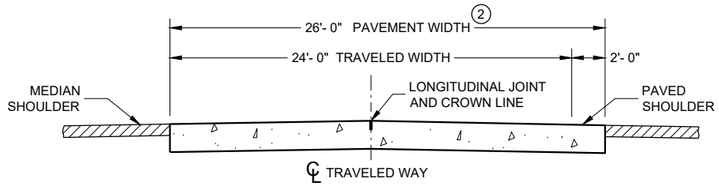
APPROVED
March 2018 — DATE
/S/ Peter Kemp PE — PAVEMENT SUPE
FHWA

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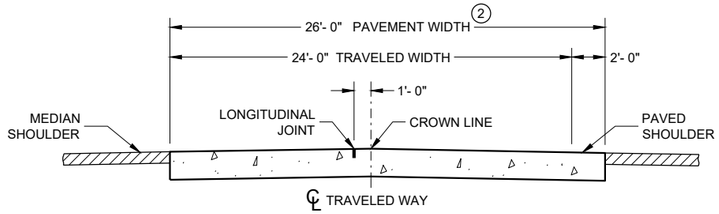


SECTION A - A

TWO-LANE TWO-WAY HIGHWAY (1)



SECTION B - B



ALTERNATIVE SECTION B - B

DIVIDED HIGHWAY (1)

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES FROM AND A MAXIMUM OF 18 INCHES FROM THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

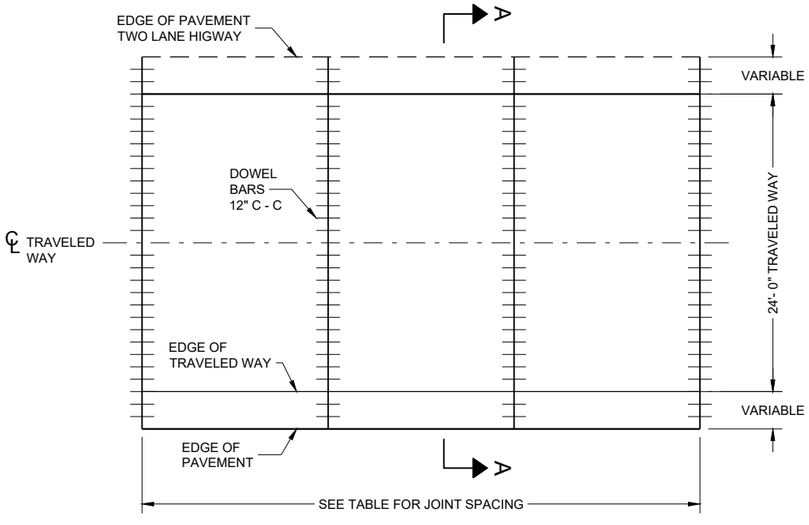
LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO THE CONTRACTION JOINTS.

(1) REFER TO TYPICAL CROSS SECTIONS FOR ADDITIONAL DETAILS.

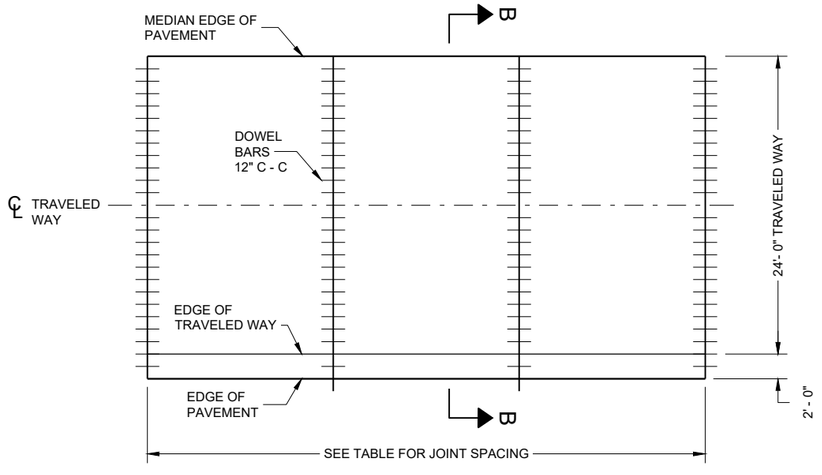
(2) MEASURE THE ENTIRE PAVED WIDTH INCLUDING THE PORTION(S) LABELED "PAVED SHOULDER" AS CONCRETE PAVEMENT.

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9" & ABOVE	1 ¼"	15'



CONTRACTION JOINT LAYOUT FOR TWO-LANE TWO-WAY HIGHWAY



CONTRACTION JOINT LAYOUT FOR DIVIDED HIGHWAY

RURAL DOWELED CONCRETE PAVEMENT

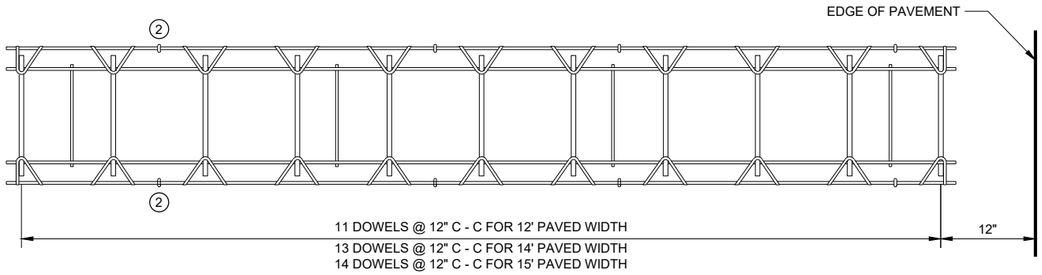
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD13C11 - 13a

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SDD13C11 - 13a



PLAN VIEW



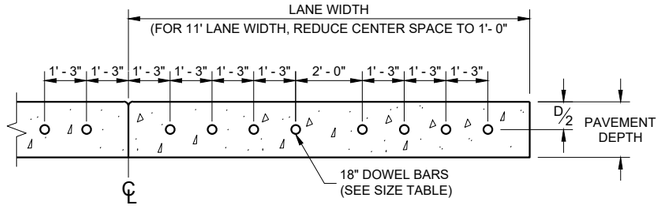
SIDE VIEW

(NORMAL TO CENTERLINE)

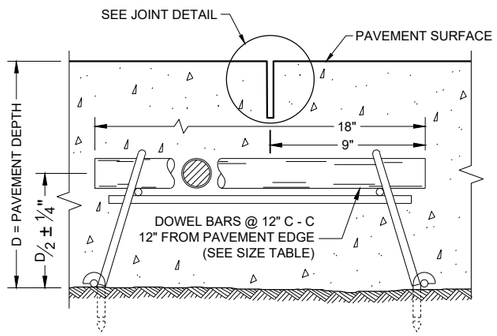
CONTRACTION JOINT DOWEL ASSEMBLY (1)

GENERAL NOTES

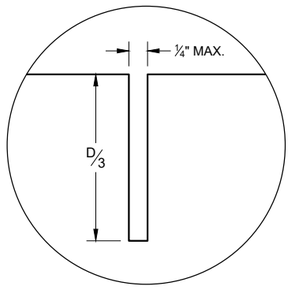
1. OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTION CONTRACTION JOINTS.
2. SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.
3. FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼" RADIUS AT FORMED JOINTS.
4. PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.
5. INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C - C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO THE "DRILLED DOWEL BAR CONSTRUCTION JOINT" DETAIL.
6. APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.
7. ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS ⅛" GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



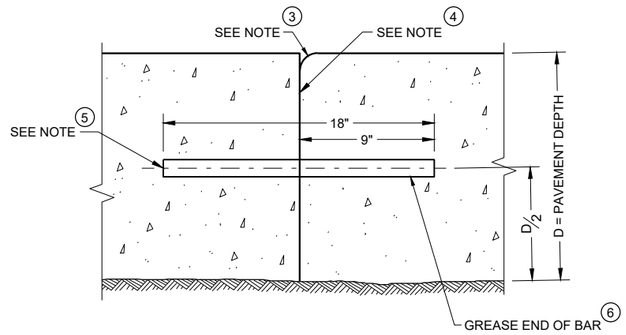
DRILLED DOWEL BAR CONSTRUCTION JOINT (7)



DOWELED CONTRACTION JOINT



JOINT DETAIL



TRANSVERSE CONSTRUCTION JOINT

RURAL DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

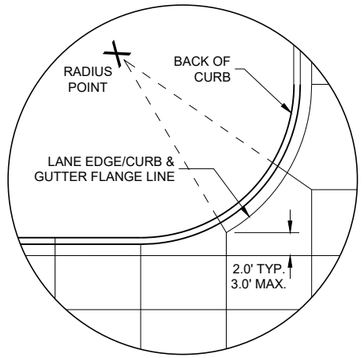
APPROVED
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DATE

/S/ <AUTHOR>
PAVEMENT SUPERVIS

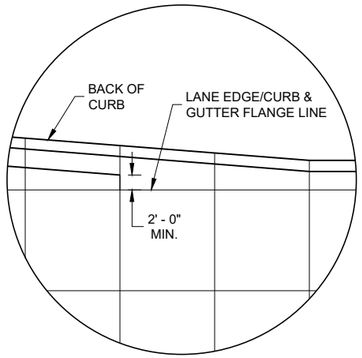
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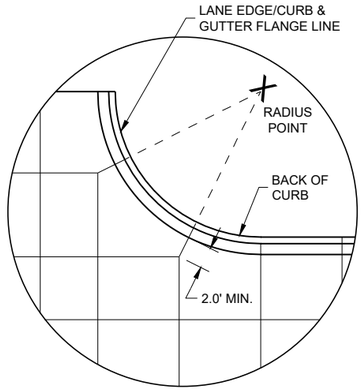
SDD 13C11 - 13b
SDD 13C11 - 13b



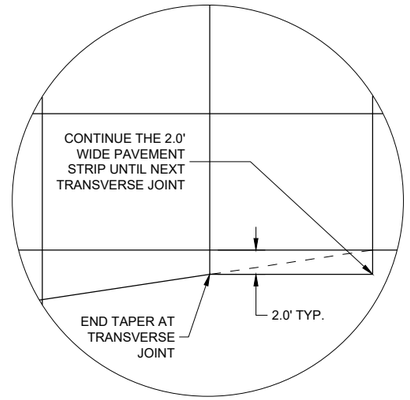
DETAIL "A"



DETAIL "B"



DETAIL "C"



DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

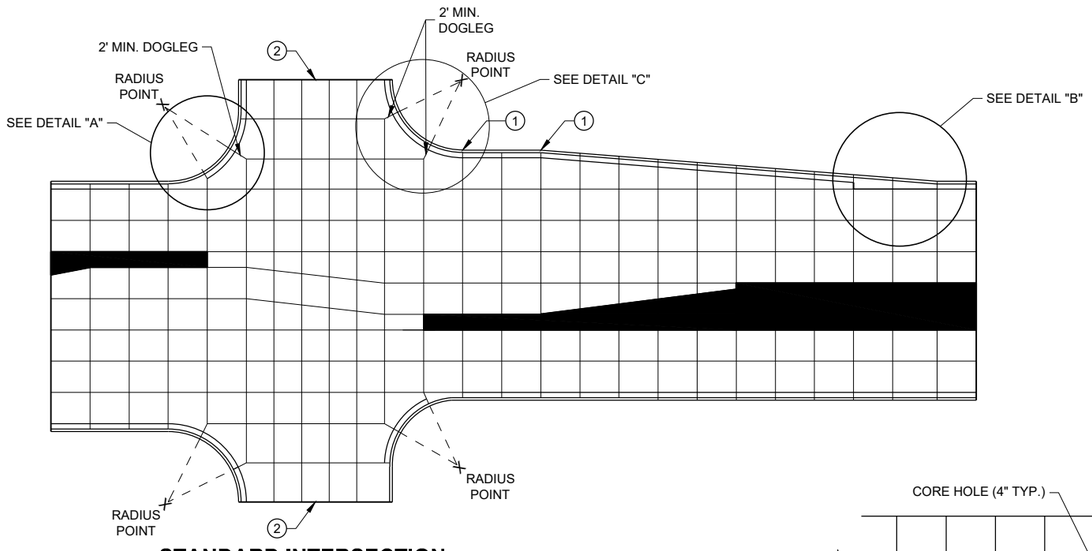
AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.

(2) CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITHEDGE OF RADIUS.

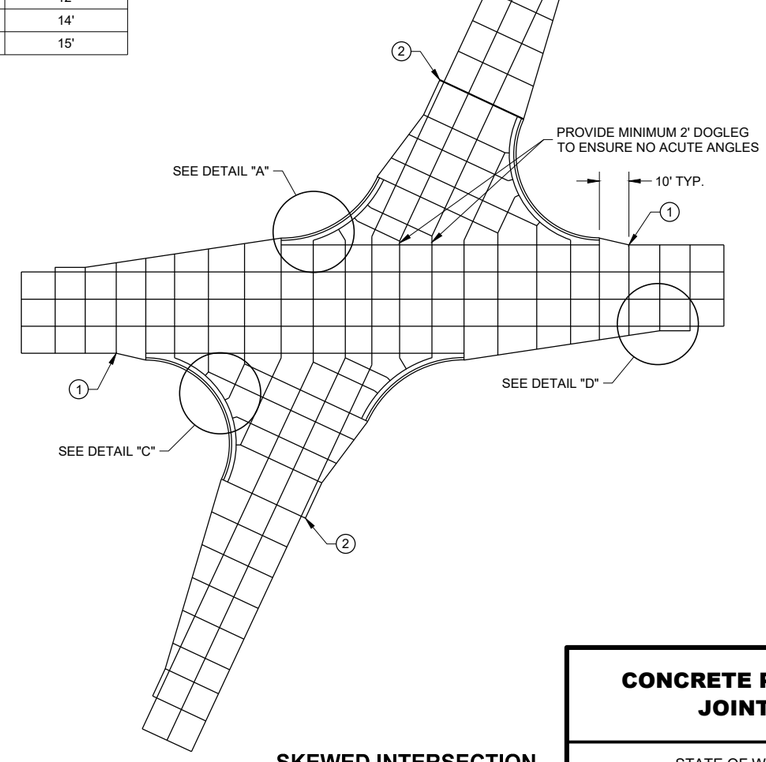
(3) THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



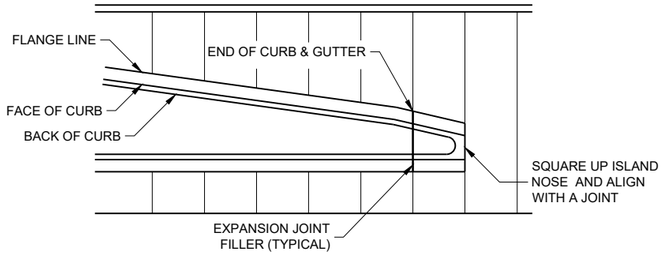
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

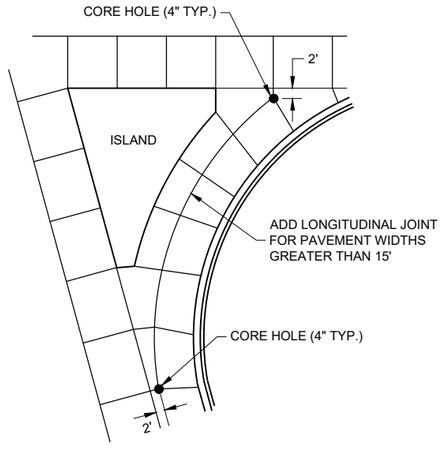
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 ½"	12'
7", 7 ½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 13C18 - 07a

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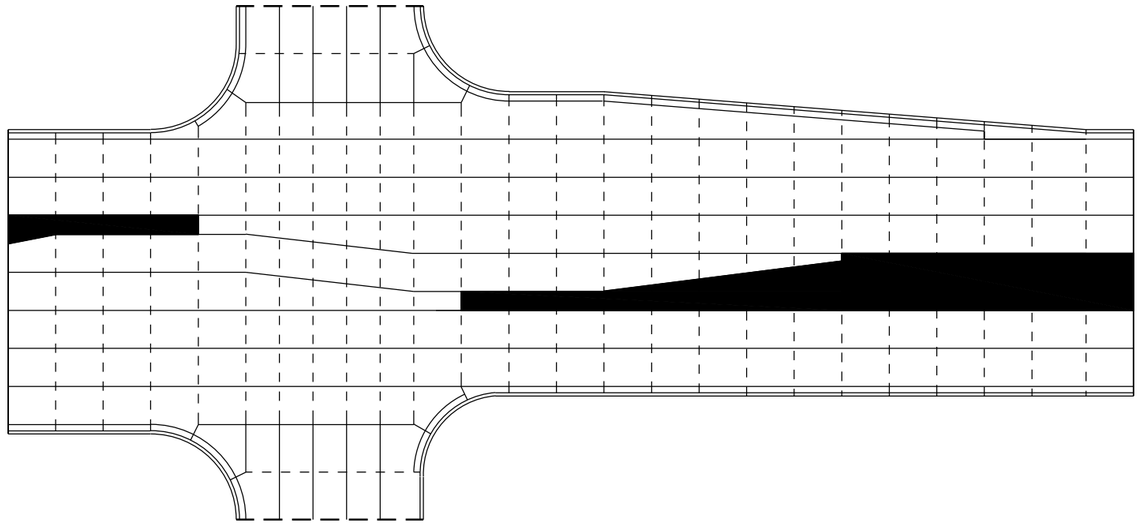
SDD 13C18 - 07a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

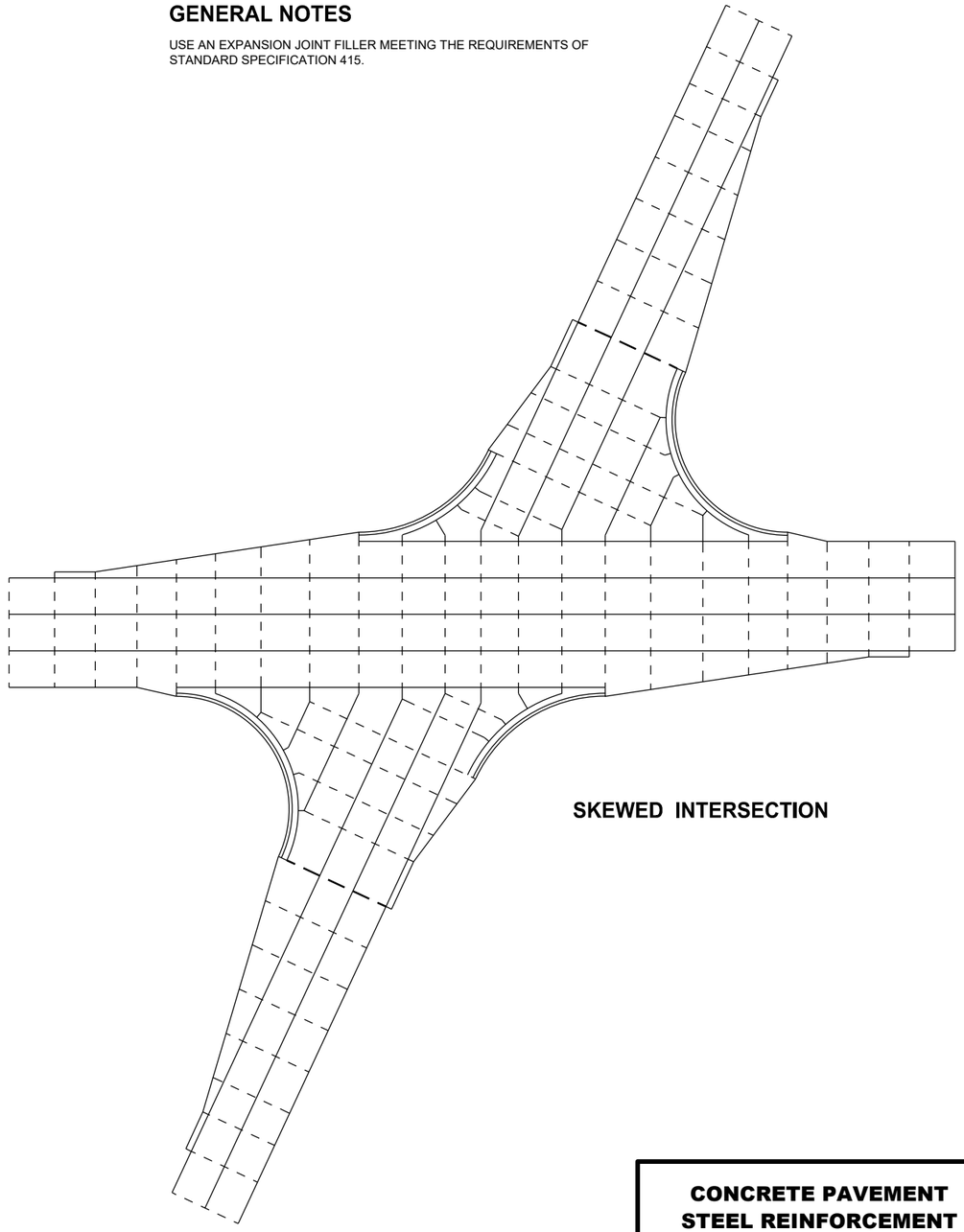
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

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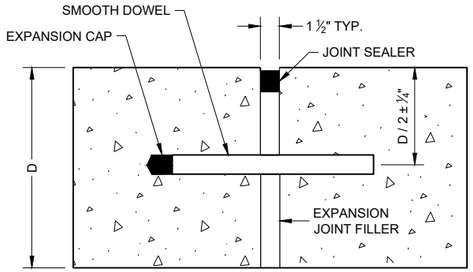
SDD 13C18 - 07b

CONCRETE PAVEMENT
STEEL REINFORCEMENT

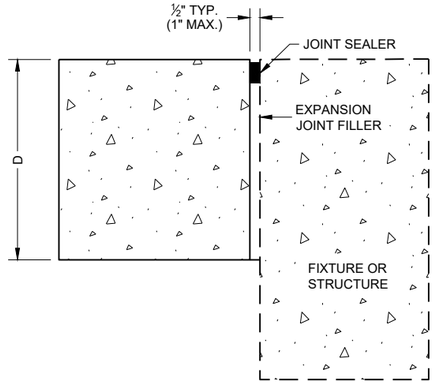
STATE OF WISCONSIN
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SDD 13C18 - 07b



DOWELED TRANSVERSE (1)



UNTIED - LONGITUDINAL

EXPANSION JOINTS

TIE BAR TABLE

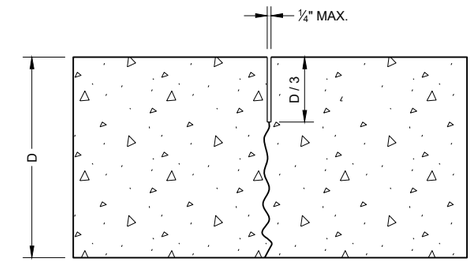
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

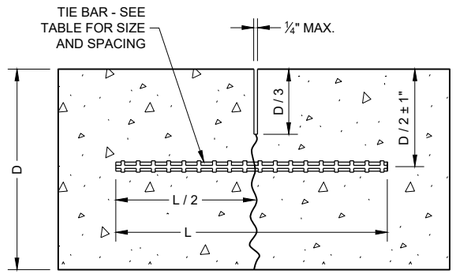
** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

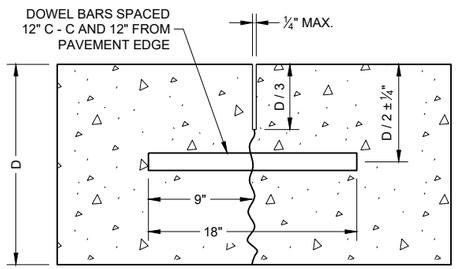
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATETHE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH SDD 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
4. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
5. IF JOINT IS FORMED, PROVIDE A ¼" RADIUS.
6. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



UNDOWELED TRANSVERSE

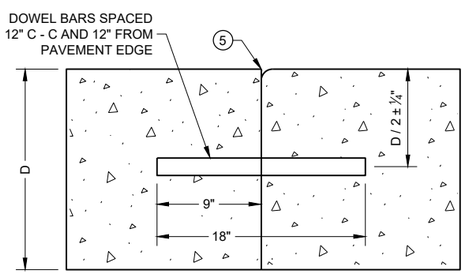


TIED LONGITUDINAL

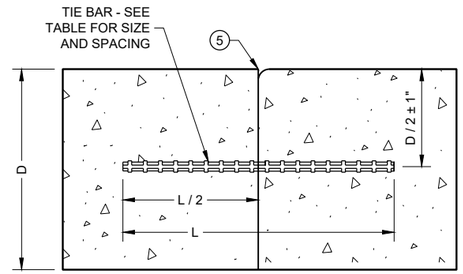


DOWELED TRANSVERSE

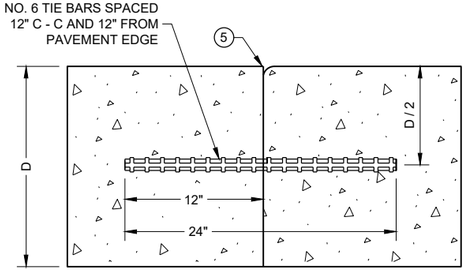
CONTRACTION JOINTS (2)



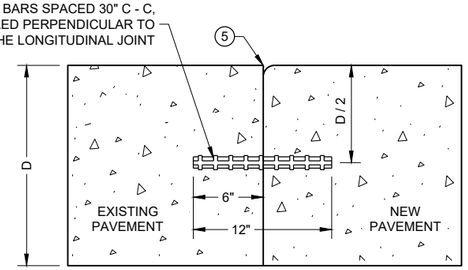
DOWELED TRANSVERSE (3)



TIED LONGITUDINAL



TIED TRANSVERSE (3)
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

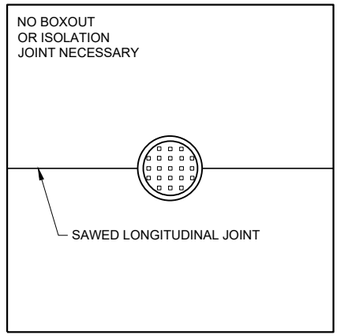
CONSTRUCTION JOINTS (4)

CONCRETE PAVEMENT JOINT TYPES

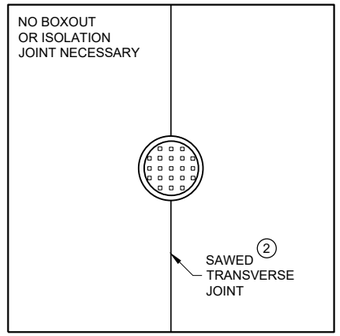
STATE OF WISCONSIN
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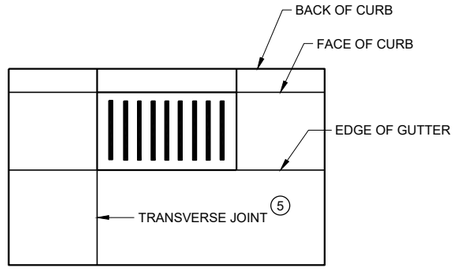
SDD 13C18 - 07c



MANHOLE WITH LONGITUDINAL JOINT



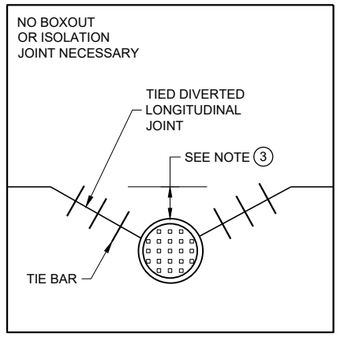
MANHOLE WITH TRANSVERSE JOINT



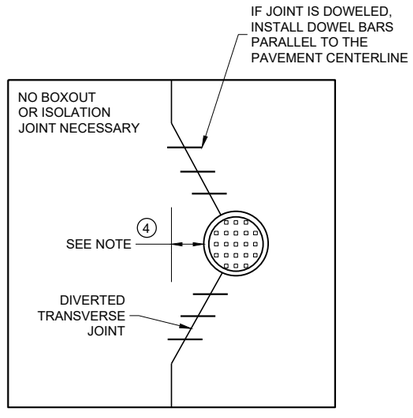
INLET WITH TRANSVERSE JOINT

GENERAL NOTES

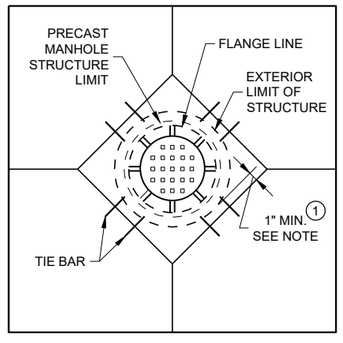
1. USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
2. ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
3. IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDINAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
4. IF THE DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS LESS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
5. ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT



DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

FHWA

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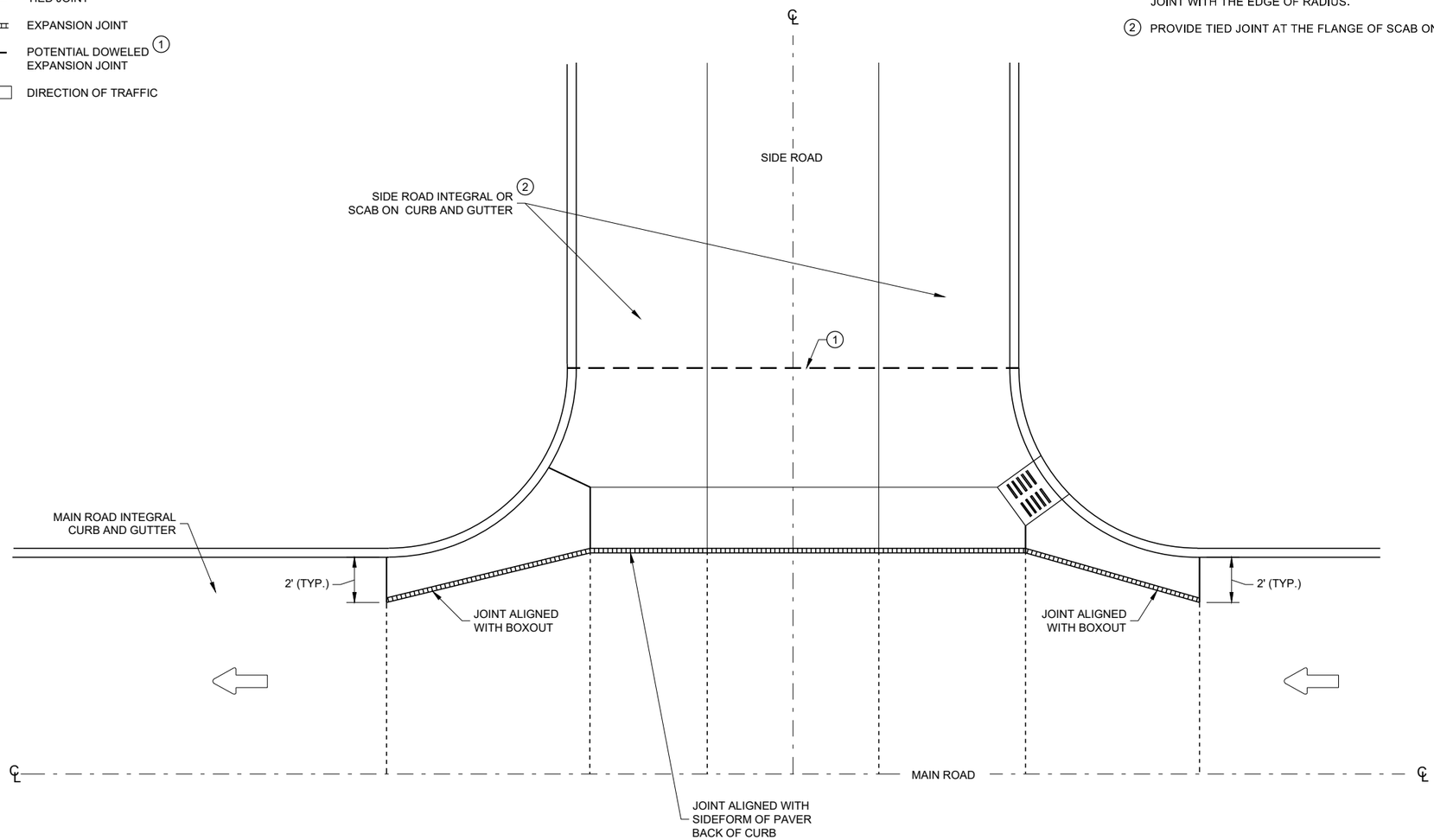
SDD13C18 - 07d

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SDD13C18 - 07d

LEGEND

- DOWELED JOINT
- TIED JOINT
- EXPANSION JOINT
- POTENTIAL DOWELED EXPANSION JOINT (1)
- DIRECTION OF TRAFFIC



GENERAL NOTES

(1) CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH THE EDGE OF RADIUS.

(2) PROVIDE TIED JOINT AT THE FLANGE OF SCAB ON CURB IF SCAB ON CURB AND GUTTER IS USE.

INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER

CONCRETE PAVEMENT INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER

STATE OF WISCONSIN
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APPROVED
November 2018
DATE

/S/ Peter Kemp P.E.
ROADWAY STANDARDS DEVE ENGINEER

FHWA

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SDD 13C18 - 07f

6

SDD 13C18 - 07f

(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.

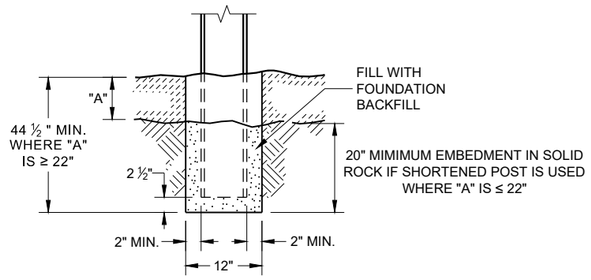
(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL 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).

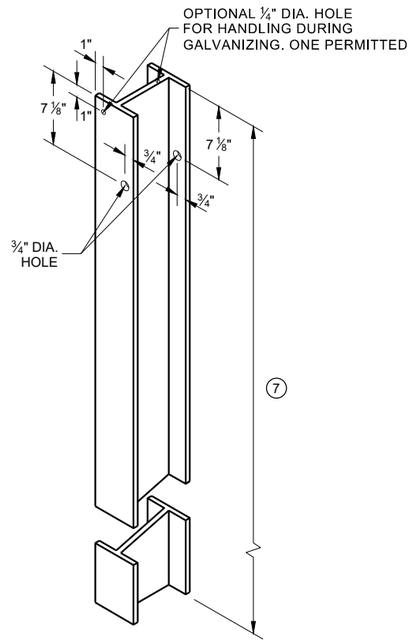
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ±1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 ¾" TO 32".

(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.

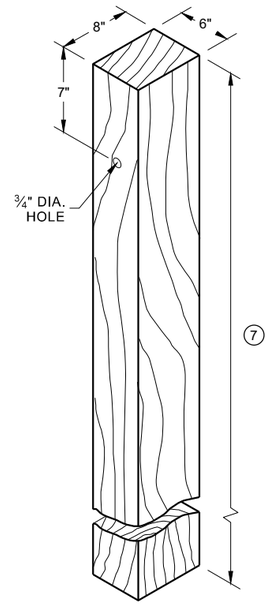
(7) TOTAL POST LENGTH FOR TYPE K IS 7' - 0".
TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' - 0".



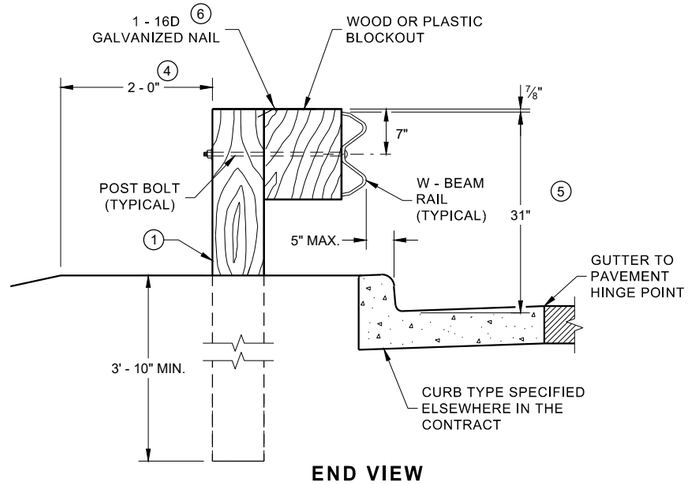
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



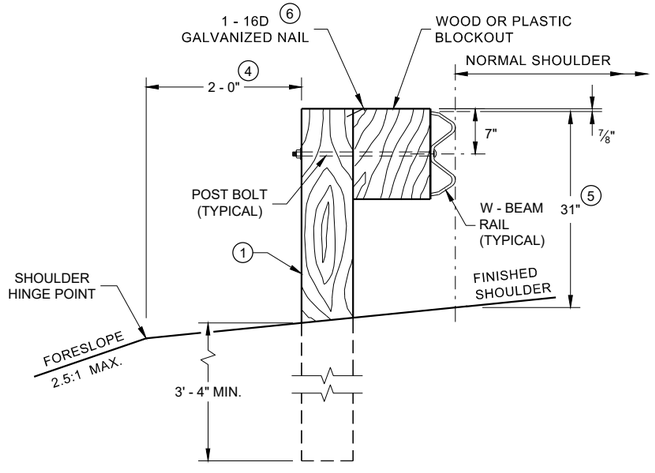
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



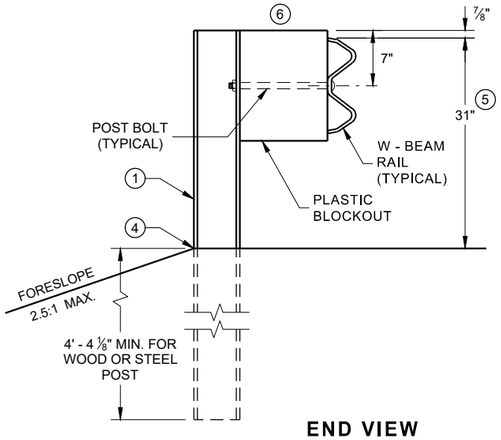
WOOD POST (6" X 8") NOMINAL (1)



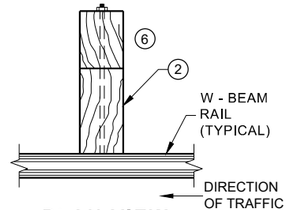
END VIEW
LOCATED ALONG A CURBED ROADWAY



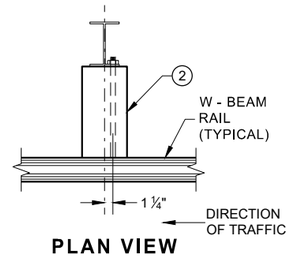
END VIEW
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



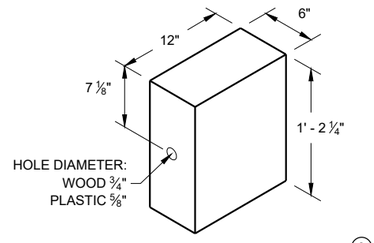
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, PLASTIC BLOCKOUT & BEAM



WOOD OR PLASTIC BLOCKOUT (2)

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

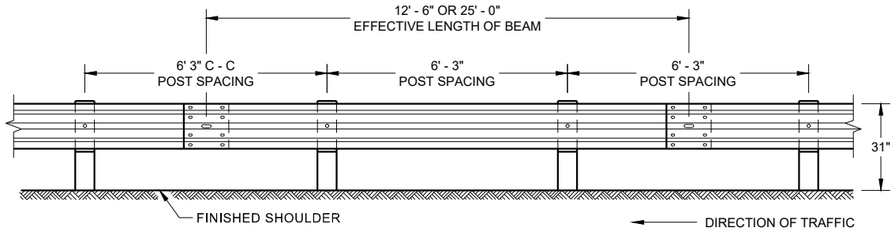
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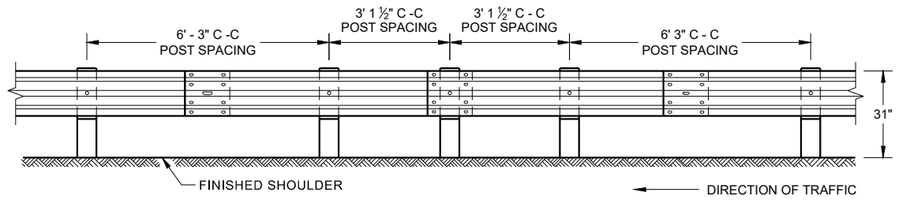
SDD 14B42 - 07a

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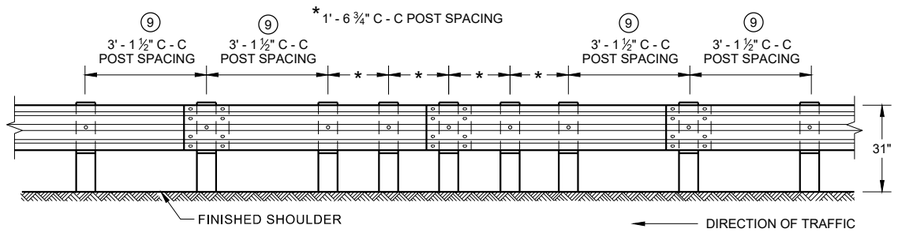
SDD 14B42 - 07a



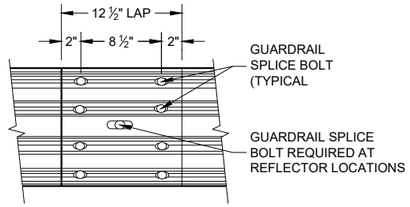
FRONT VIEW
POST SPACING STANDARD INSTALLATION



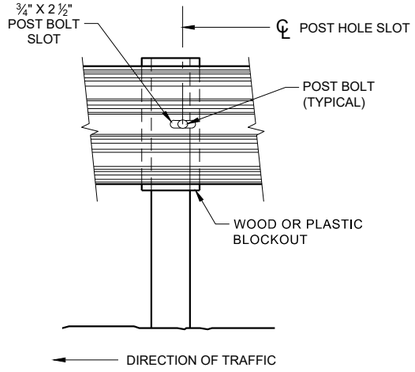
FRONT VIEW
HALF POST SPACING (HS) AND
HALF POST SPACING WITH LONGER POSTS (K)



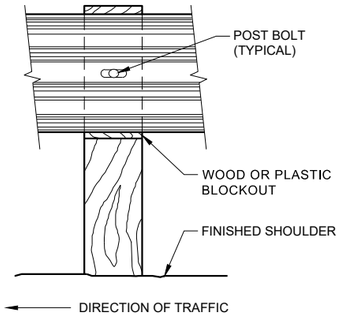
FRONT VIEW
QUARTER POST SPACING (QS)



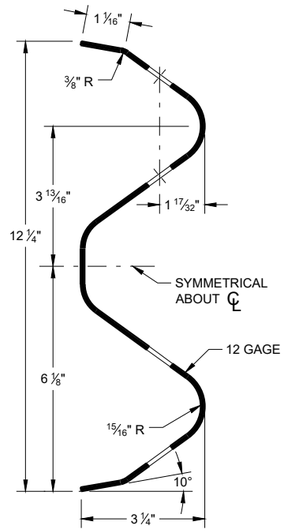
FRONT VIEW
MID-SPAN BEAM SPLICE



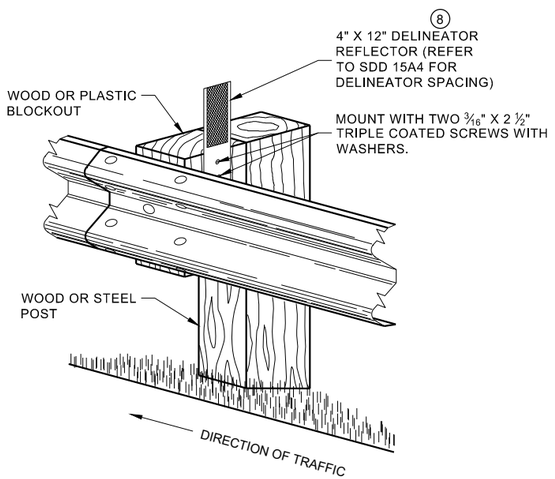
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



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.

⑨ 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.

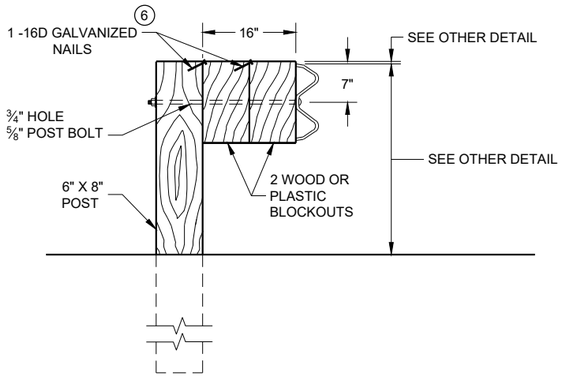
GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

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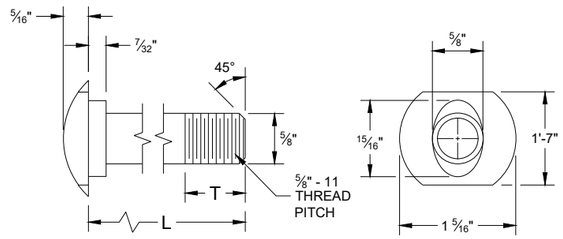


DETAIL FOR 16" BLOCKOUT DEPTH

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.

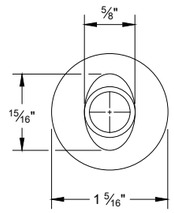
NOTE:

1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 3⁄16".
2. IF THE BOLT EXTENDS MORE THAN ¼" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

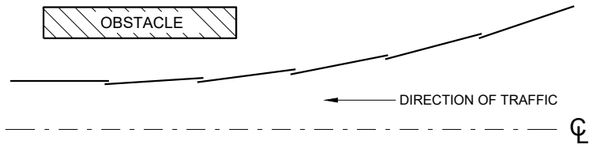


POST BOLT TABLE

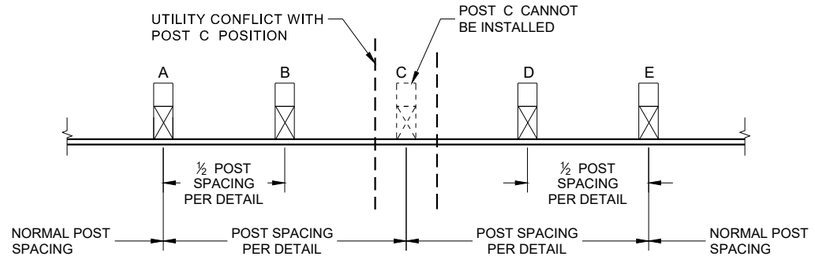
L	T (MIN.)
1 ¼"	1 ⅛"
2"	1 ¾"
10"	4"
14"	4 1⁄16"
18"	4"
21"	4 1⁄16"
25"	4"



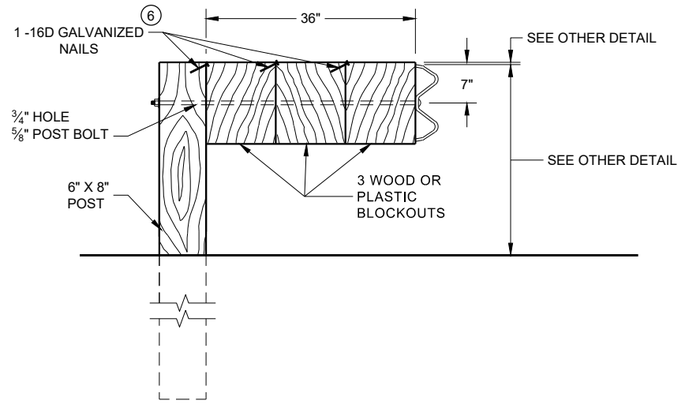
ALTERNATE BOLT HEAD



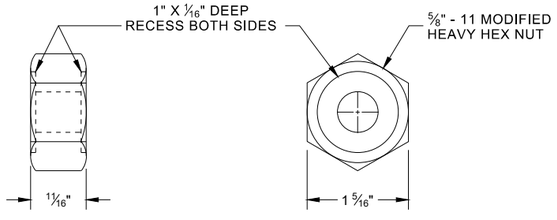
PLAN VIEW
BEAM LAPPING DETAIL



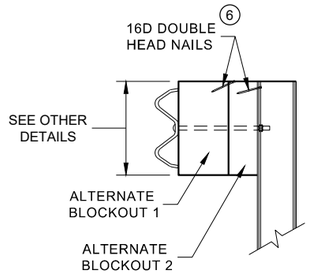
POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



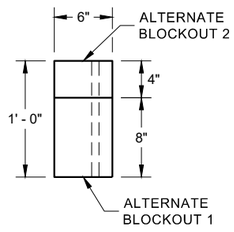
DETAIL FOR 36" BLOCKOUT DEPTH



POST BOLT, SPLICE BOLT AND RECESS NUT



SIDE VIEW



PLAN VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

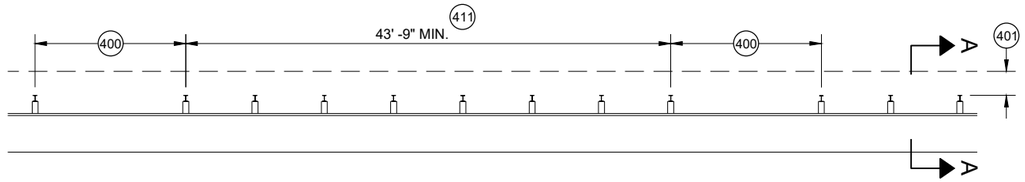
NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

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.

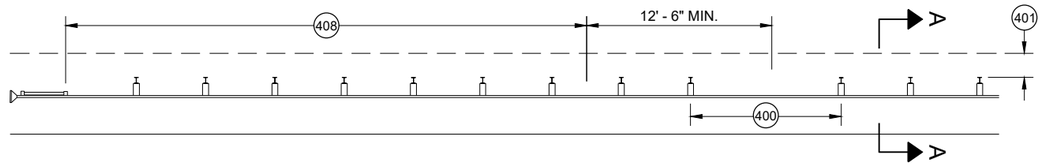
(6) WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

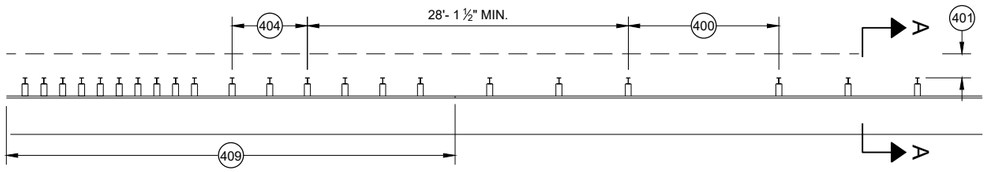
6
SDD 14B42 - 07c



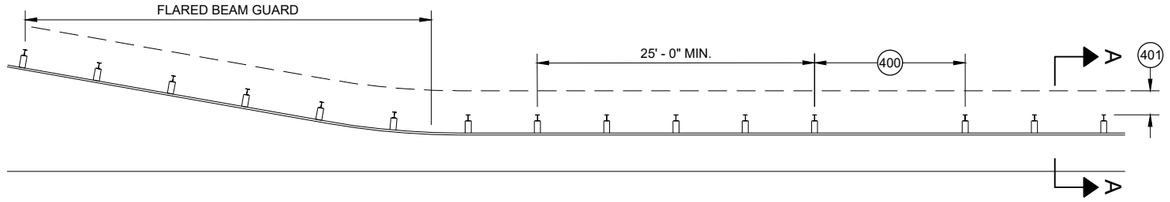
MISSING POST IN MGS GUARDRAIL



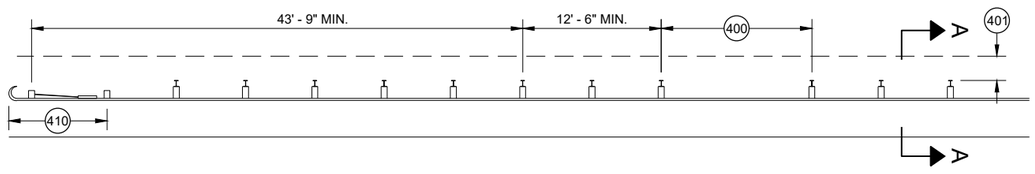
MISSING POST IN MGS GUARDRAIL NEAR EAT



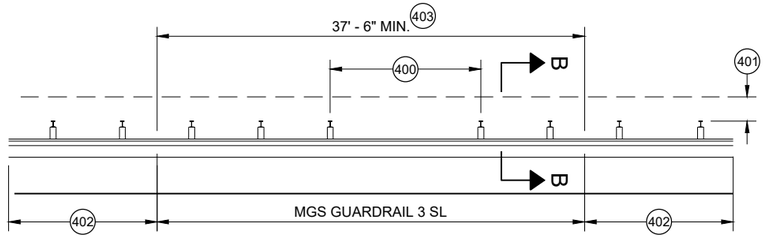
MISSING POST IN MGS GUARDRAIL NEAR AN APPROACH TRANSITION



MISSING POST IN MGS GUARDRAIL NEAR FLARED BEAM GUARD

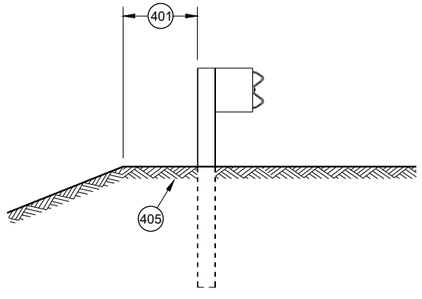


MISSING POST IN MGS GUARDRAIL NEAR A TYPE 2 END TERMINAL

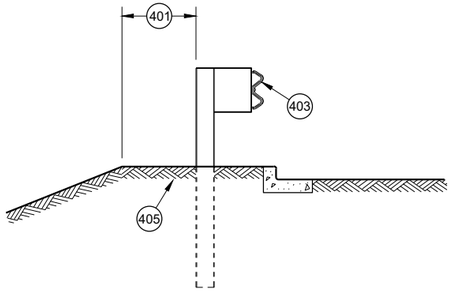


MISSING POST IN SHORT SPAN MGS GUARDRAIL NEAR CURB (SL) 407

400 MAX SPAN 12' - 6"
401 2' MIN.
402 MGS GUARDRAIL 3
403 NESTING BEAM GUARD
404 ASYMMETRIC TRANSITION
405 SOIL WELL DRAINED AND COMPACTED
406 SEE OTHER DRAWINGS IN THIS SDD
407 SEE OTHER DRAWINGS FOR MIN. SPACING BETWEEN SPANS
408 SEE SDD 14B44
409 SEE SDD 14B45
410 SEE SDD 14B47
411 MINIMUM DISTANCE BETWEEN MISSING POST SPANS.



SECTION A - A 406



SECTION B - B 406

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2021
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
UNIT SUPERVISOR

FHWA

6

SDD 14B42 - 07d

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 MANUFACTURERS REQUIRE DIFFERENT PERFORATED W - BEAM RAIL END PANELS. SEE MANUFACTURER'S INFORMATION.

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

(E) HARDWARE MAY VARY BETWEEN MANUFACTURER. SEE MANUFACTURER'S DRAWING FOR INFORMATION.

DIMENSIONS MAY VARY, MANUFACTURER'S INFORMATION.

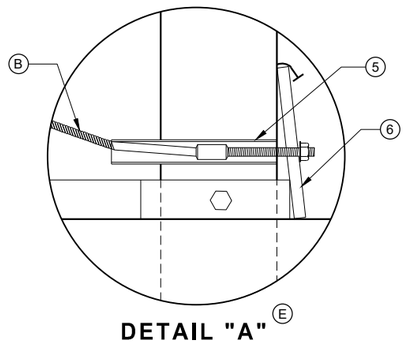
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

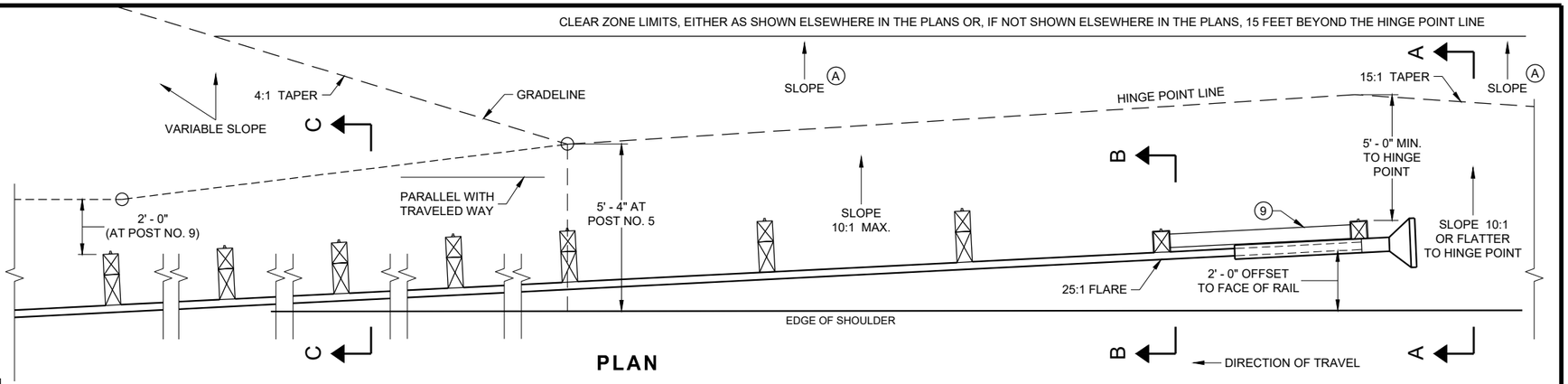
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

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

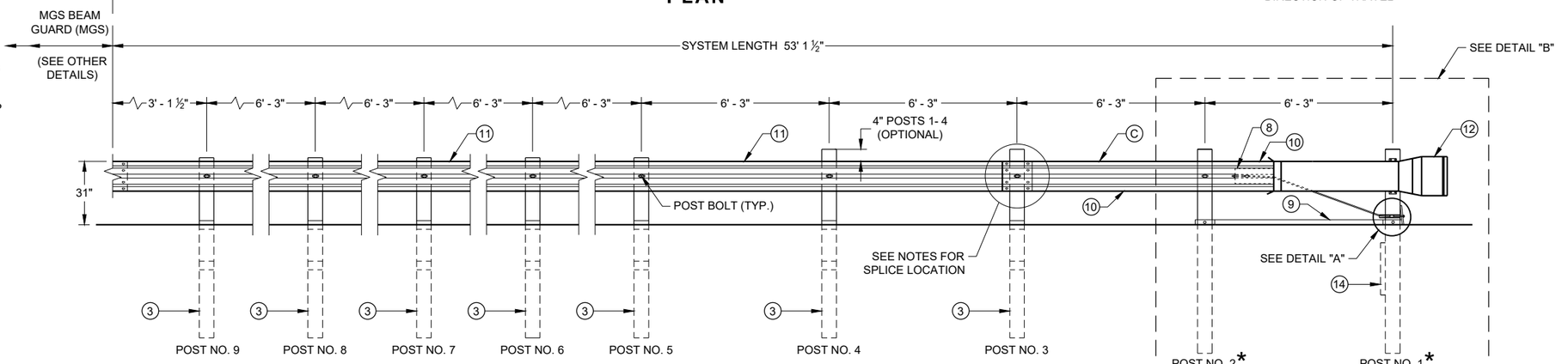
THE CENTER OF THE UPPER 3 ½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST.



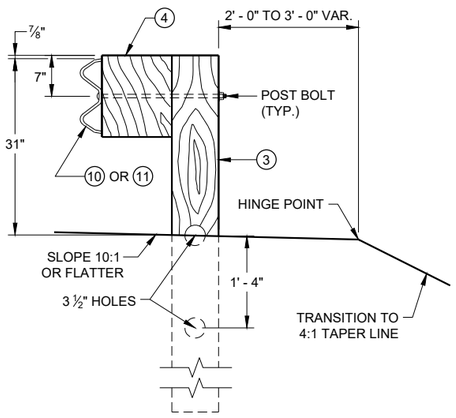
DETAIL "A" (E)



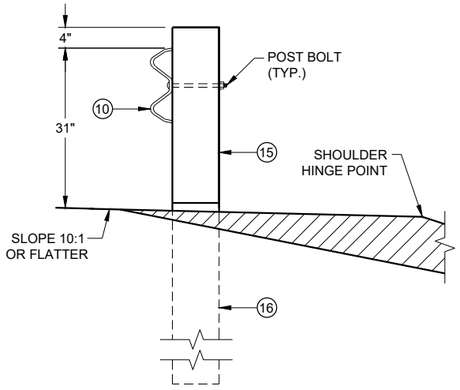
PLAN



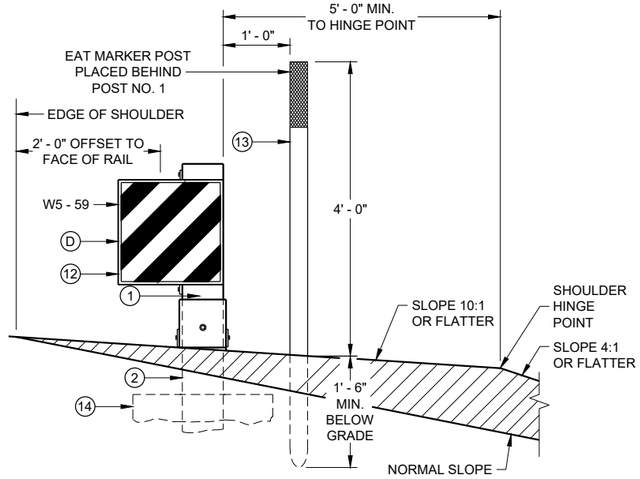
ELEVATION



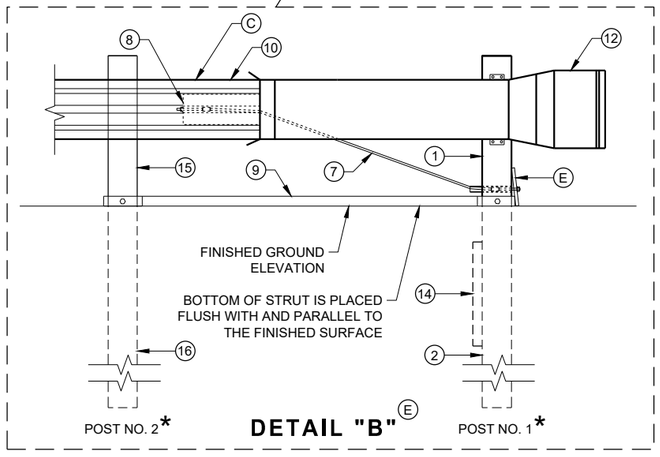
SECTION C - C
TYPICAL AT POST NOS. 3 - 9



SECTION B - B
TYPICAL AT POST NO. 2*



SECTION A - A
TYPICAL AT POST NO. 1*



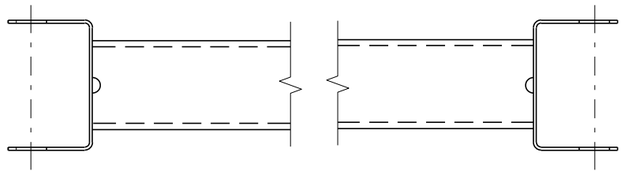
DETAIL "B" (E)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B44 - 04a

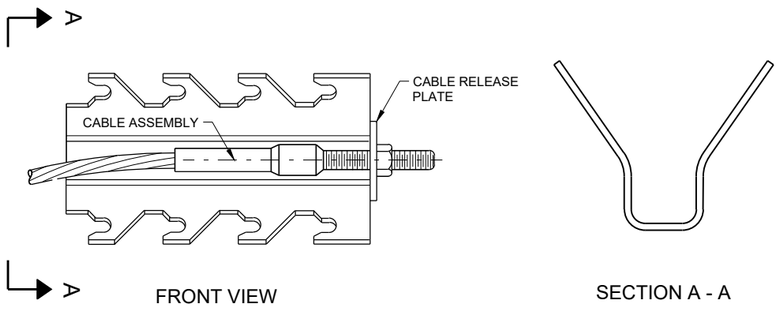
SDD 14B44 - 04a



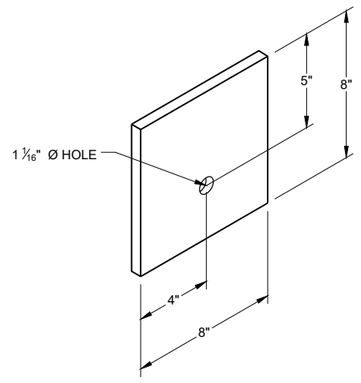
GENERIC GROUND STRUT (9) (E)

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUGACTURER'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



GENERIC ANCHOR CABLE BOX (9) (E)



BEARING PLATE (6) (E)

6

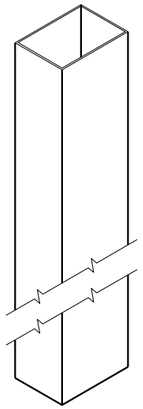
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SDD 14B44 - 04b

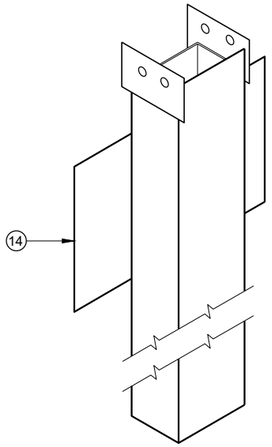
SDD 14B44 - 04b

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

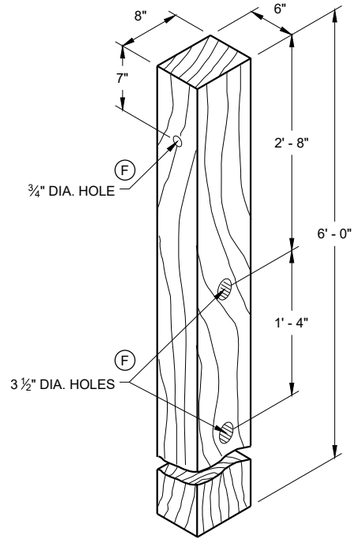
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



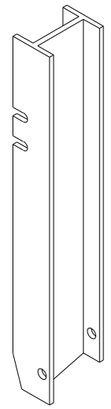
UPPER POST NO. 1 (1) (E)



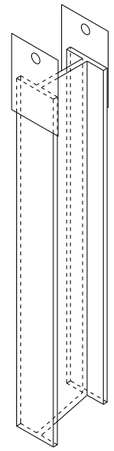
LOWER POST NO. 1 (2) (E)



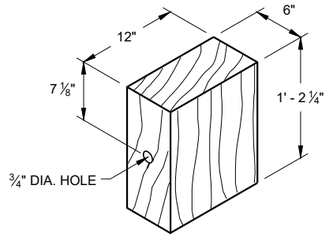
WOOD CRT POST (3) (E)
POSTS NUMBER 3-9



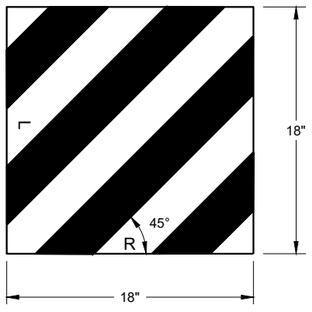
UPPER POST NO. 2 (15) (E)



LOWER POST NO. 2 (16) (E)

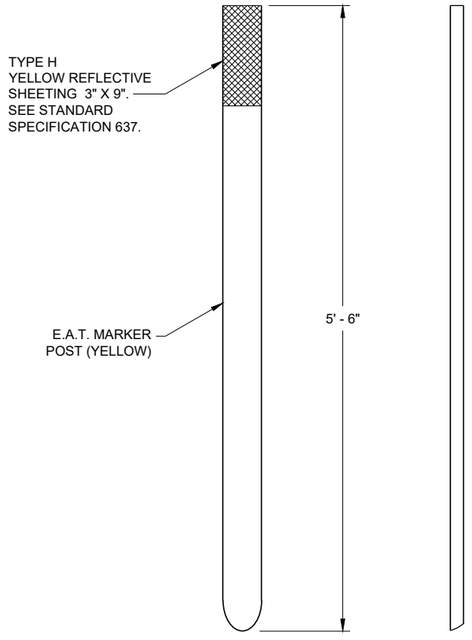


WOOD BLOCKOUT (4)
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



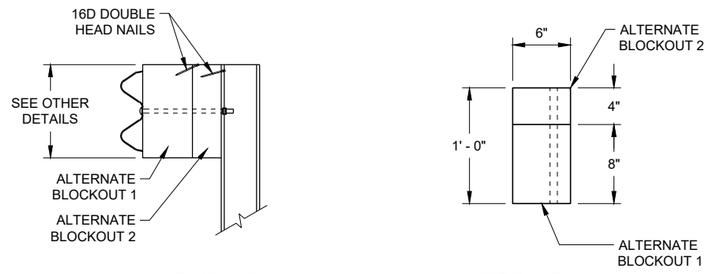
W5 - 59

REFLECTIVE SHEETING DETAIL (E)



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)

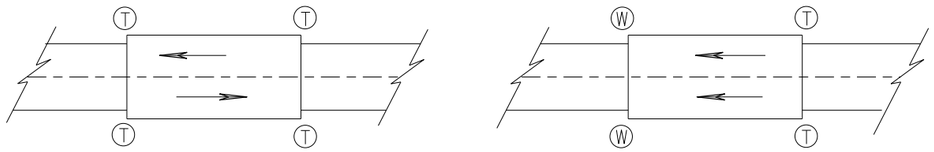
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE UNIT SUPERVISOR

FHWA

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SDD 14B44 - 04c



TWO WAY TRAFFIC

ONE WAY TRAFFIC

(T) THRIE BEAM CONNECTION

(W) 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.

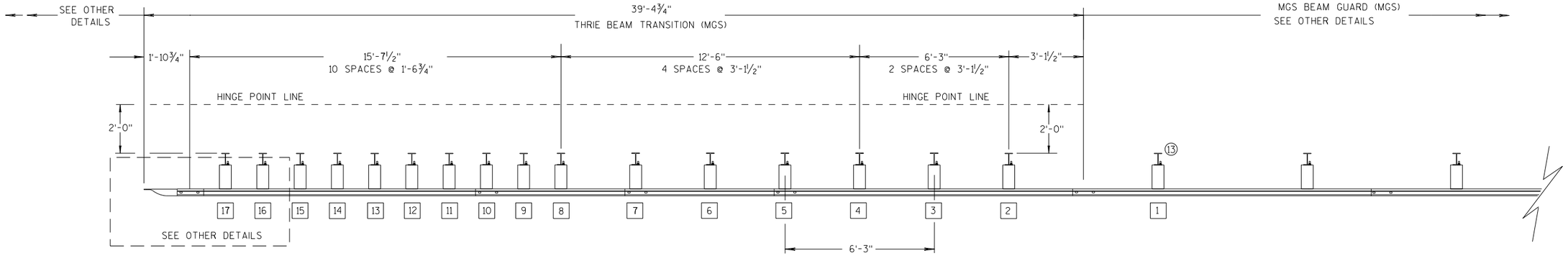
SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

POST 2 THROUGH 17 USES STEEL POST ONLY

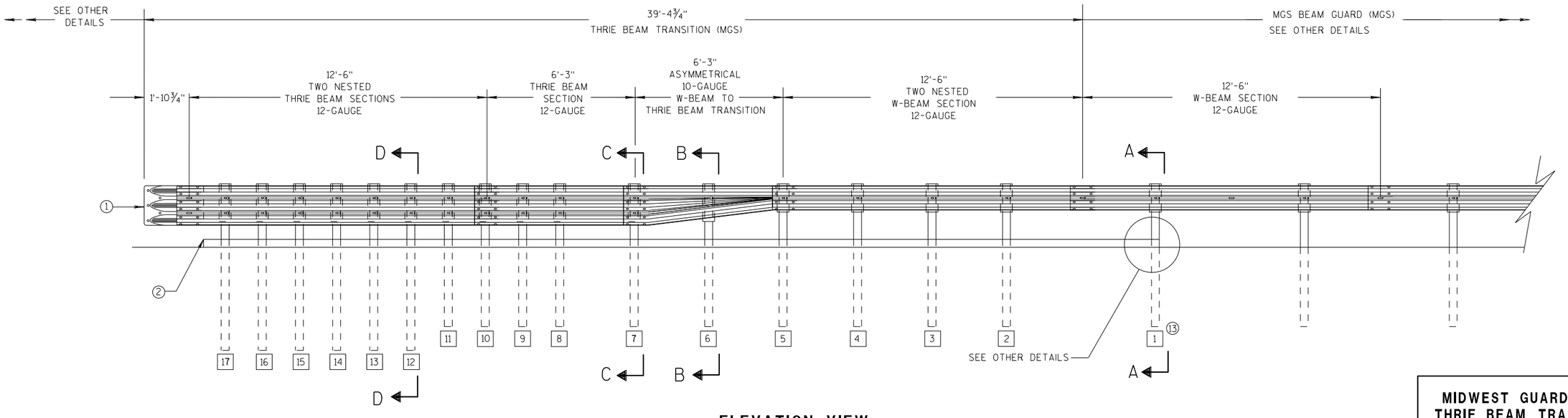
(1) BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

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

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD14B42



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 14 B 45-5a

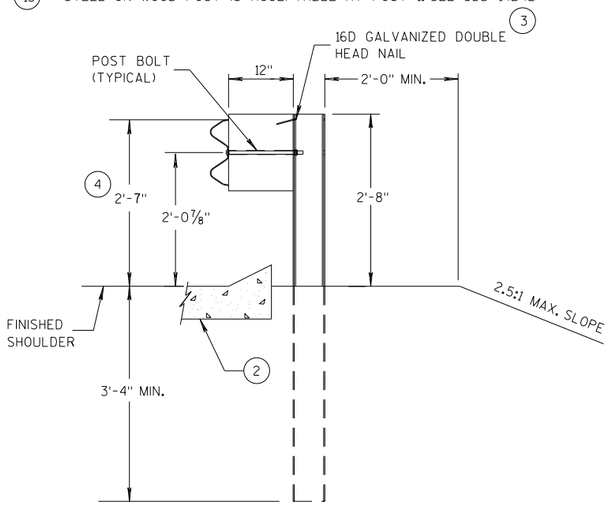
GENERAL NOTES

(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.

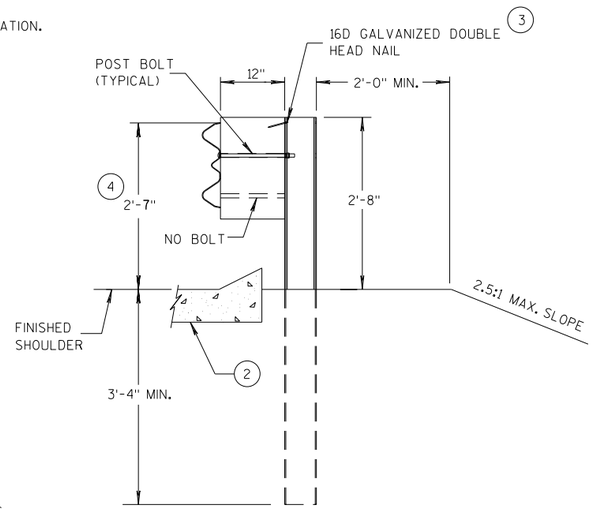
(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42



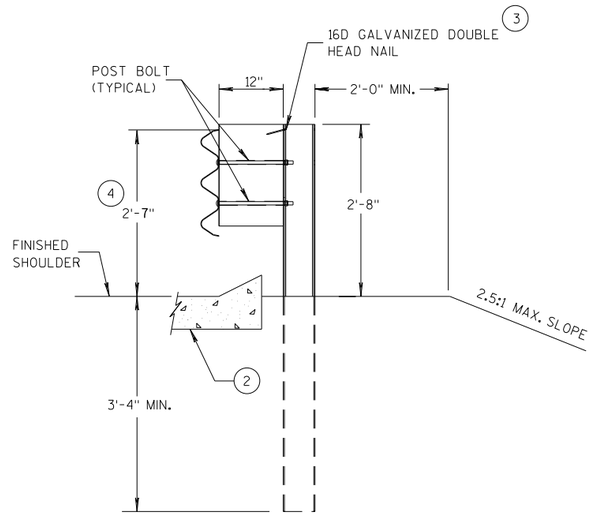
SECTION A-A (13)

POSTS 1-5



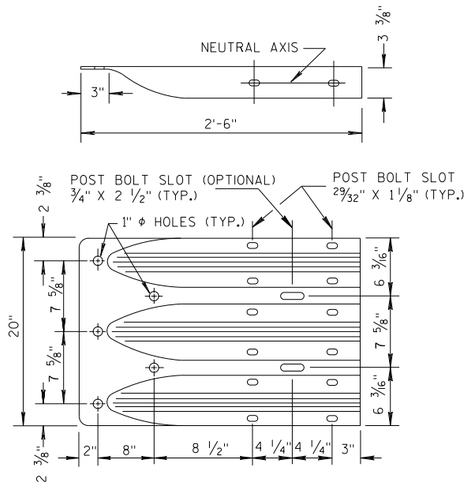
SECTION B-B

POST 6

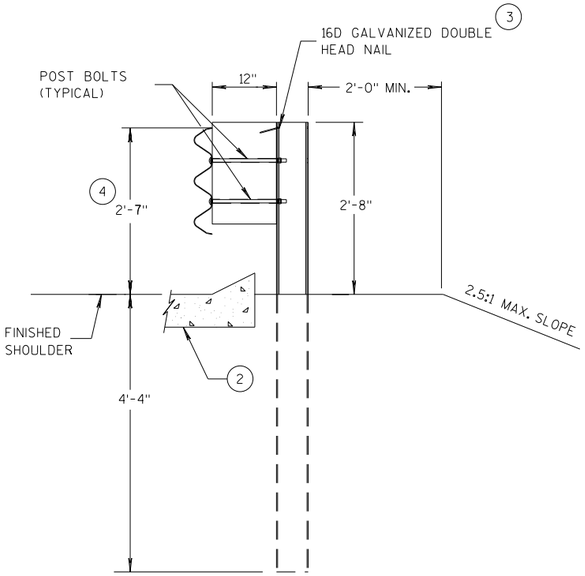


SECTION C-C

POSTS 7-11

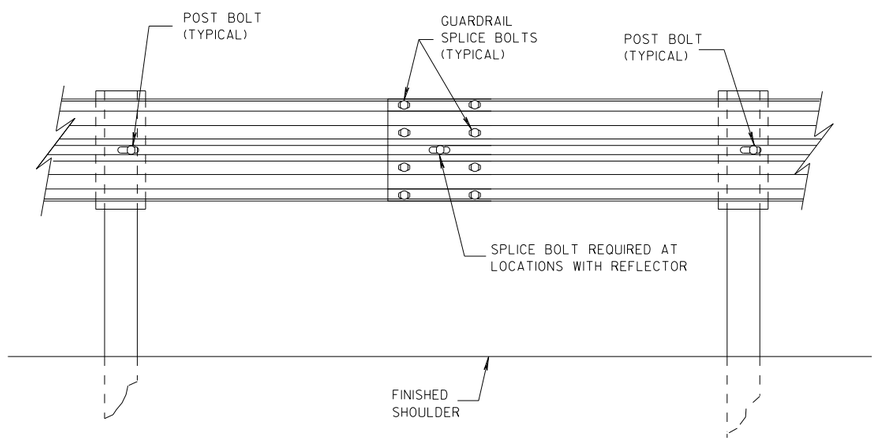


THRIE BEAM TERMINAL CONNECTOR



SECTION D-D

POSTS 12-17



SPLICE DETAIL

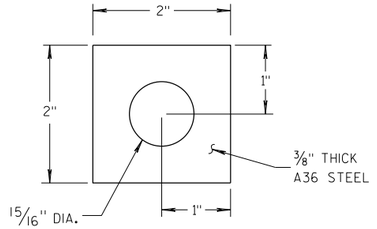
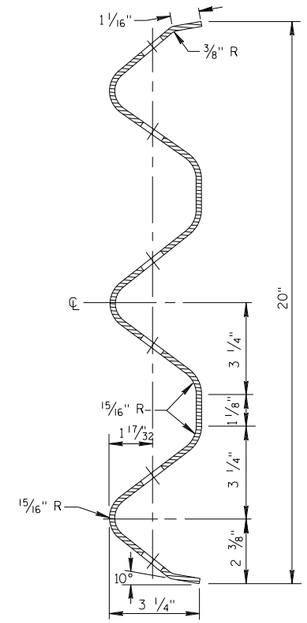


PLATE WASHER DETAIL



SECTION THRU THRIE BEAM RAIL ELEMENT

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

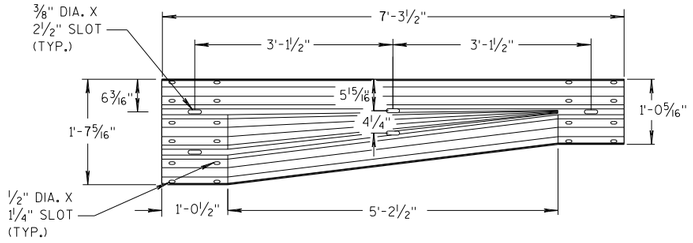
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 134

6

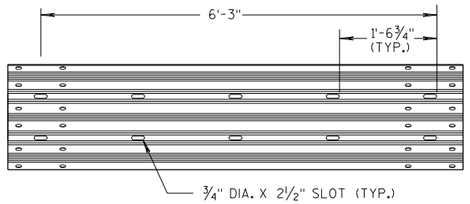
S.D.D. 14 B 45-5b

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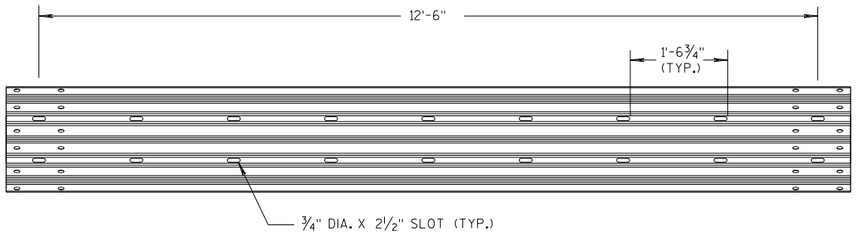
S.D.D. 14 B 45-5b



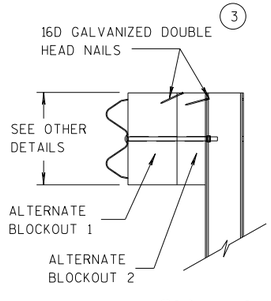
W-BEAM TO THRIE BEAM TRANSITION SECTION



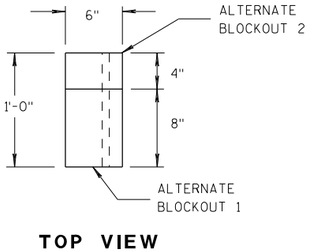
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

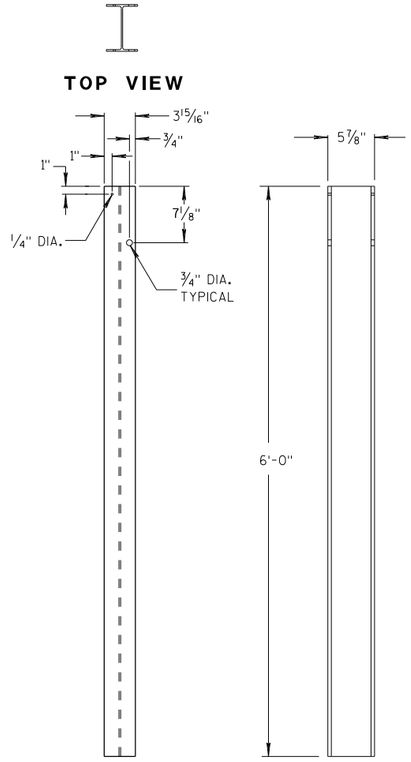


SIDE VIEW



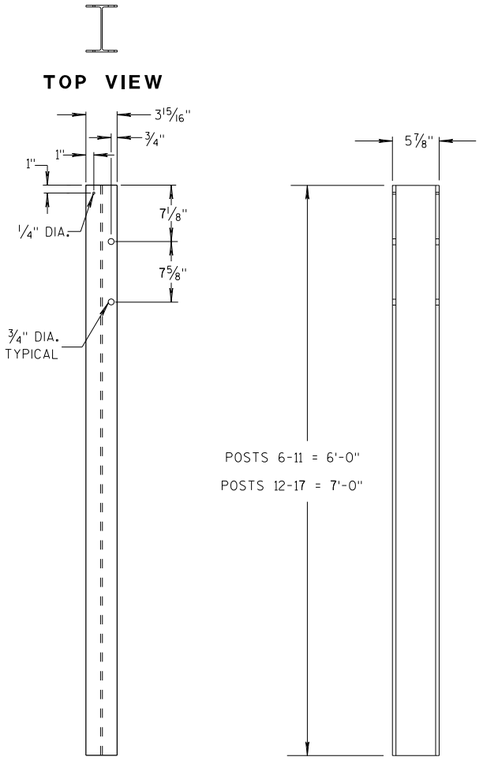
TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL



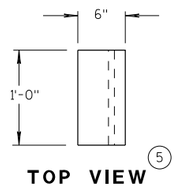
FRONT VIEW SIDE VIEW

STEEL POSTS 1-5 (13)

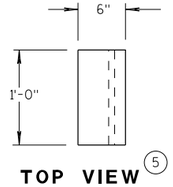


FRONT VIEW SIDE VIEW

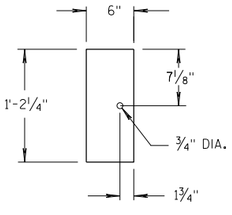
STEEL POSTS 6-17



TOP VIEW (5)

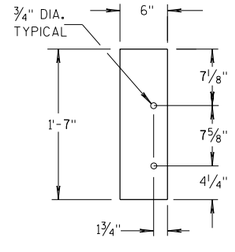


TOP VIEW (5)



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.

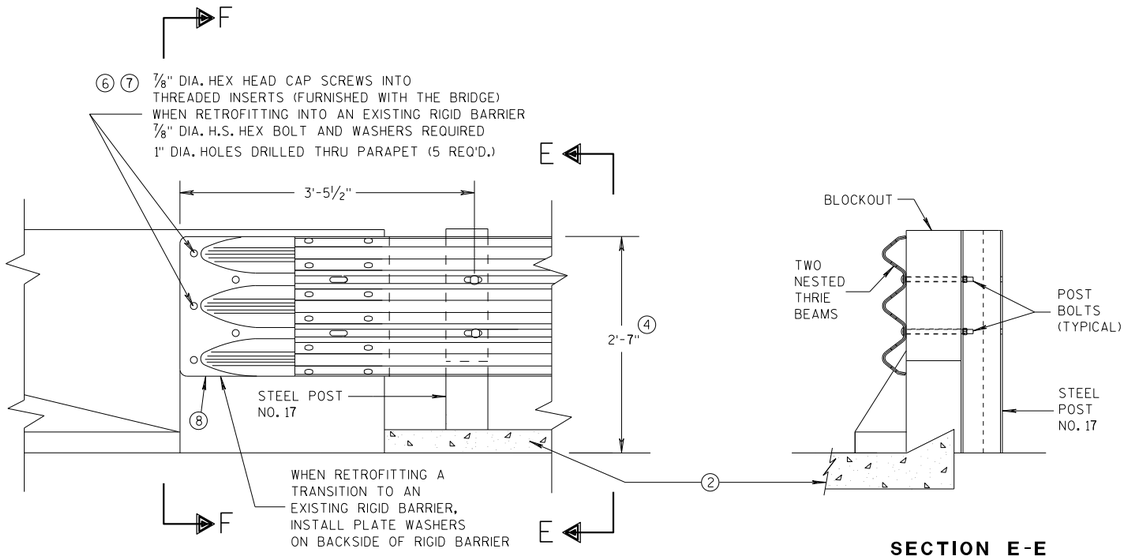
(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOF

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S.D.D. 14 B 45-5c



FRONT VIEW

SECTION E-E

THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

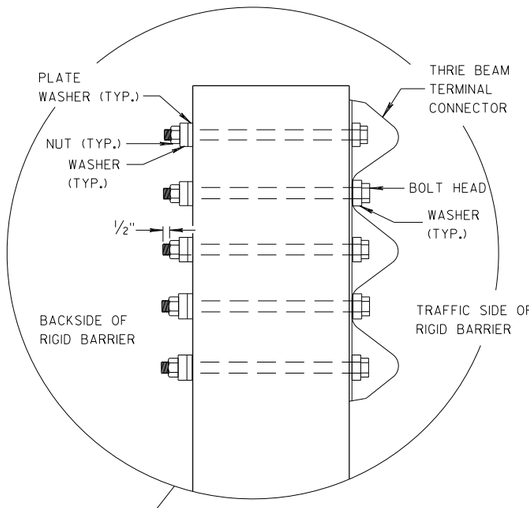
② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

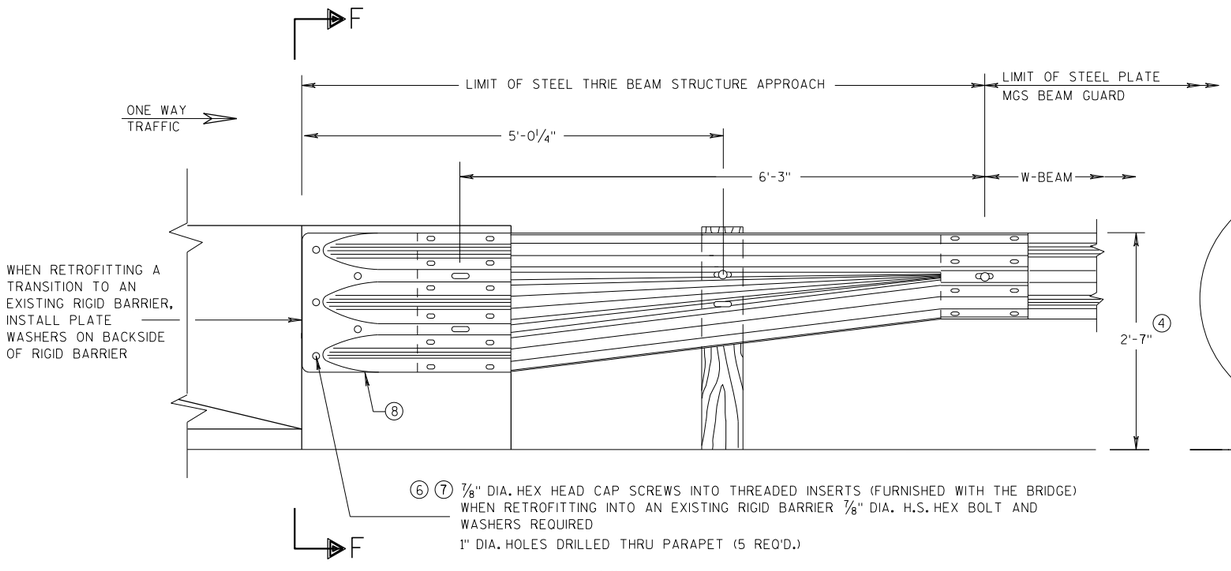
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

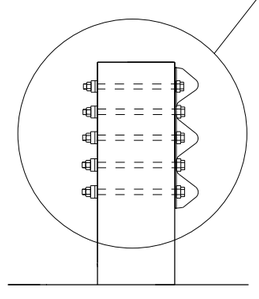
⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

⑧ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

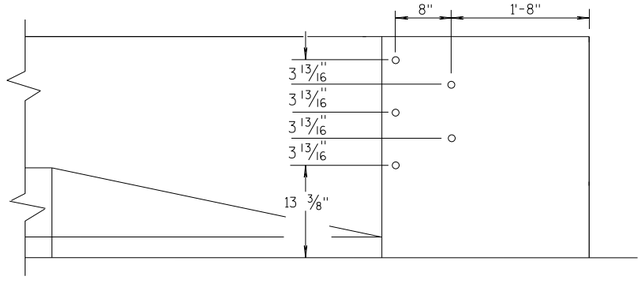




FRONT VIEW



SECTION F-F



DRILL HOLE LOCATION

W BEAM TRANSITION AND CONNECTION TO BRIDGE PARAPETS WITH SQUARE ENDS

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

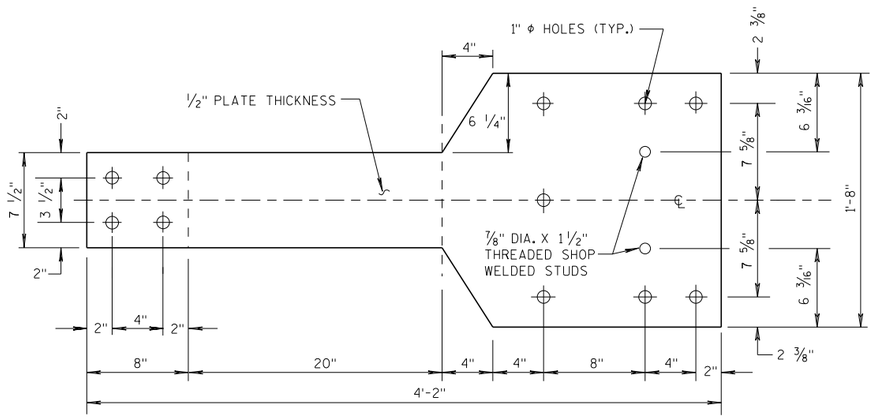
APPROVED
07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS D[illegible] UNIT SUPERVIS[illegible]NT
FHWA

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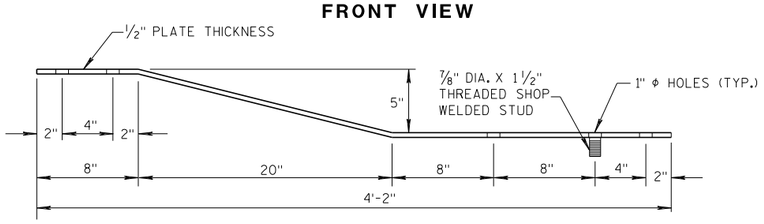
S.D.D. 14 B 45-5d

GENERAL NOTES

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

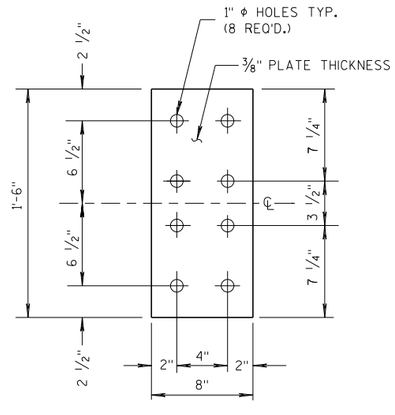


FRONT VIEW



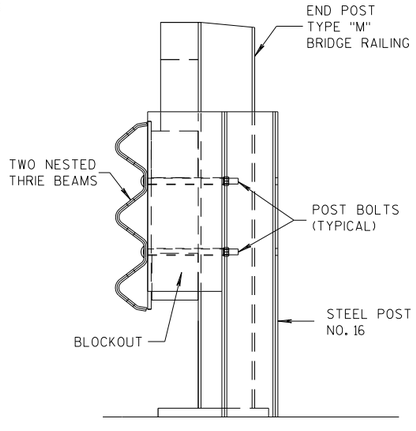
PLAN VIEW

BACK-UP PLATE DETAIL, TYPE "M"

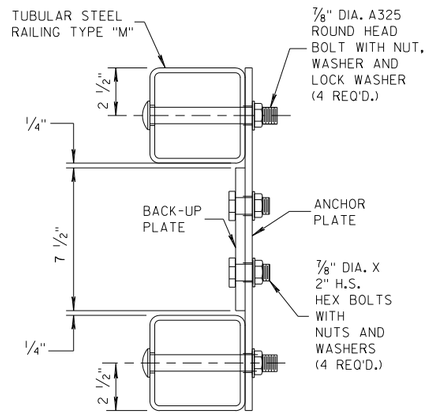


FRONT VIEW

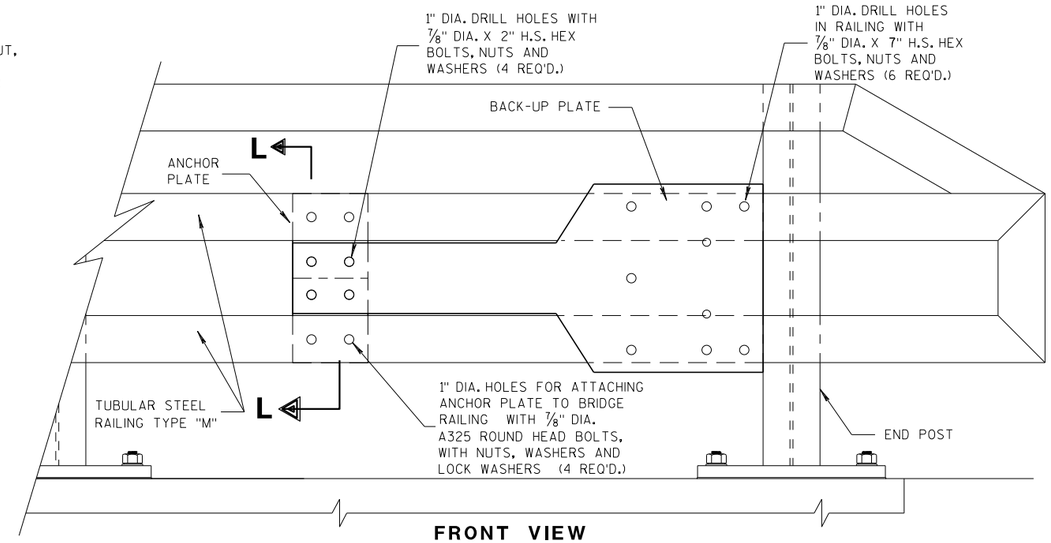
ANCHOR PLATE DETAIL, TYPE "M"



SECTION M-M

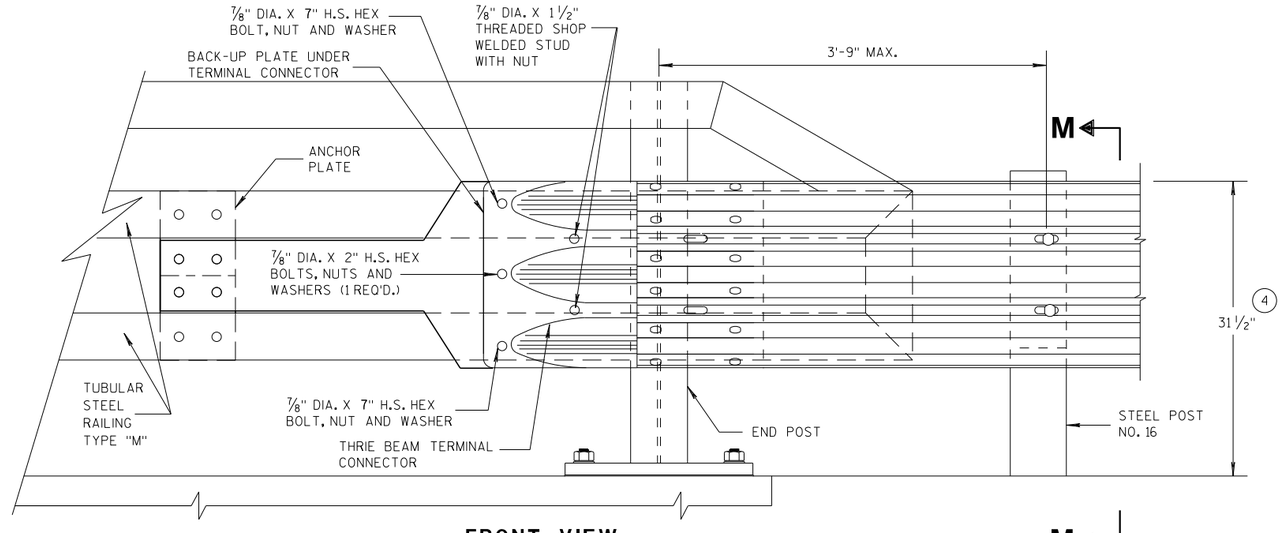


SECTION L-L

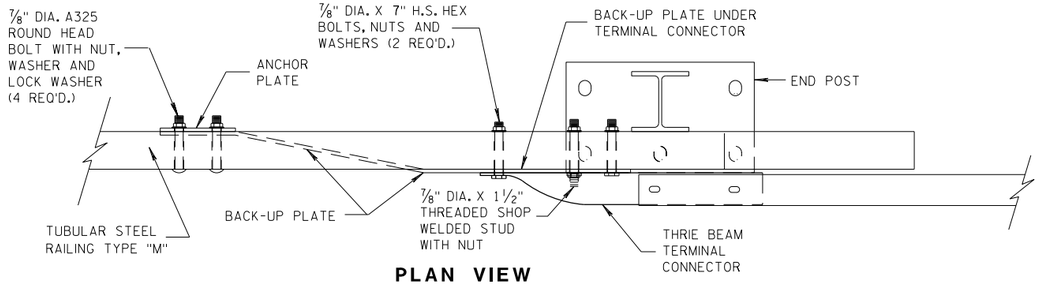


FRONT VIEW

ANCHOR AND BACK-UP PLATE MOUNTING TO BRIDGE RAILING, TYPE "M"



FRONT VIEW



PLAN VIEW

THRIE BEAM CONNECTION TO TUBULAR RAILING, TYPE "M"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
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FHWA

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S.D.D. 14 B 45-5h

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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.

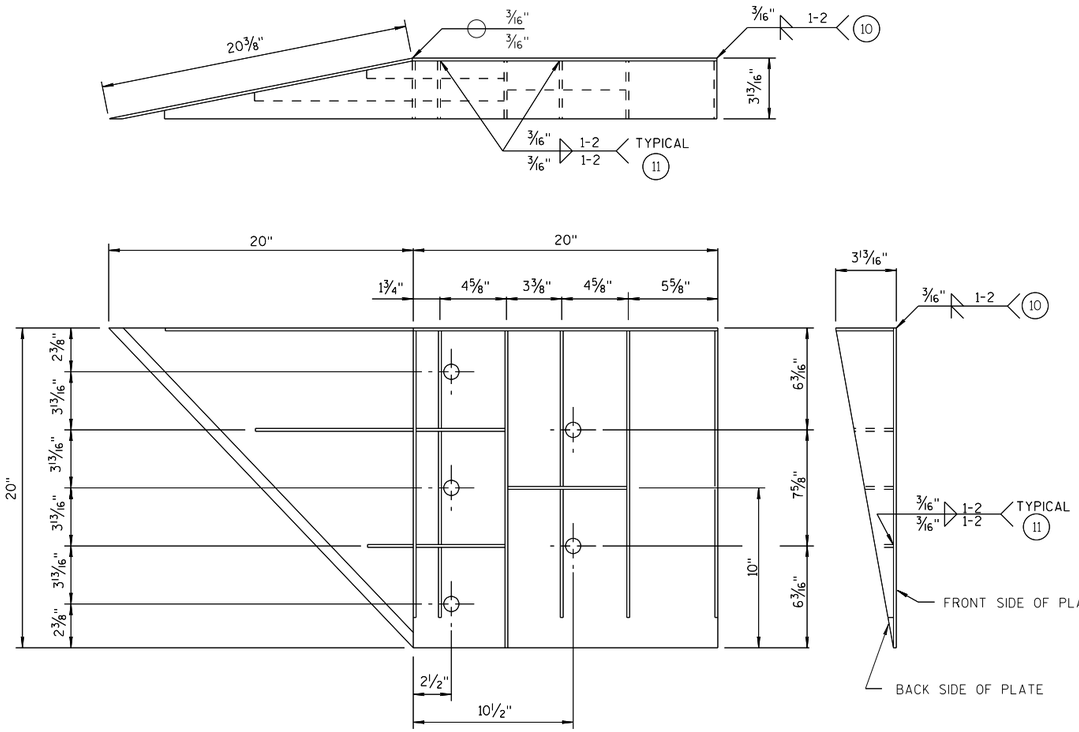
FOR GALVANIZED REQUIREMENTS, SEE SECTION 614 OF THE STANDARD SPECIFICATIONS.

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".



WELDING INSTRUCTION

(VIEWED FROM BACK SIDE OF PLATE)

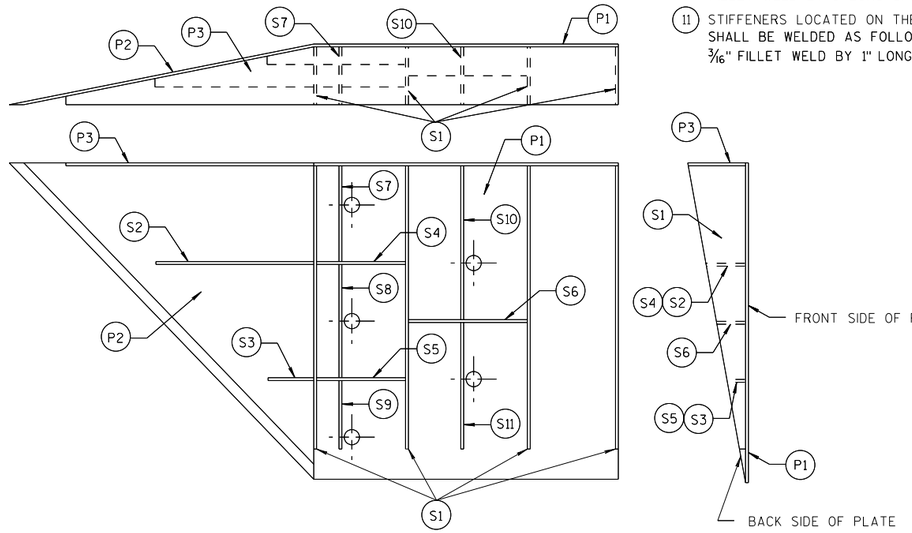


PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

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 5/8" 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 3/32"	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)

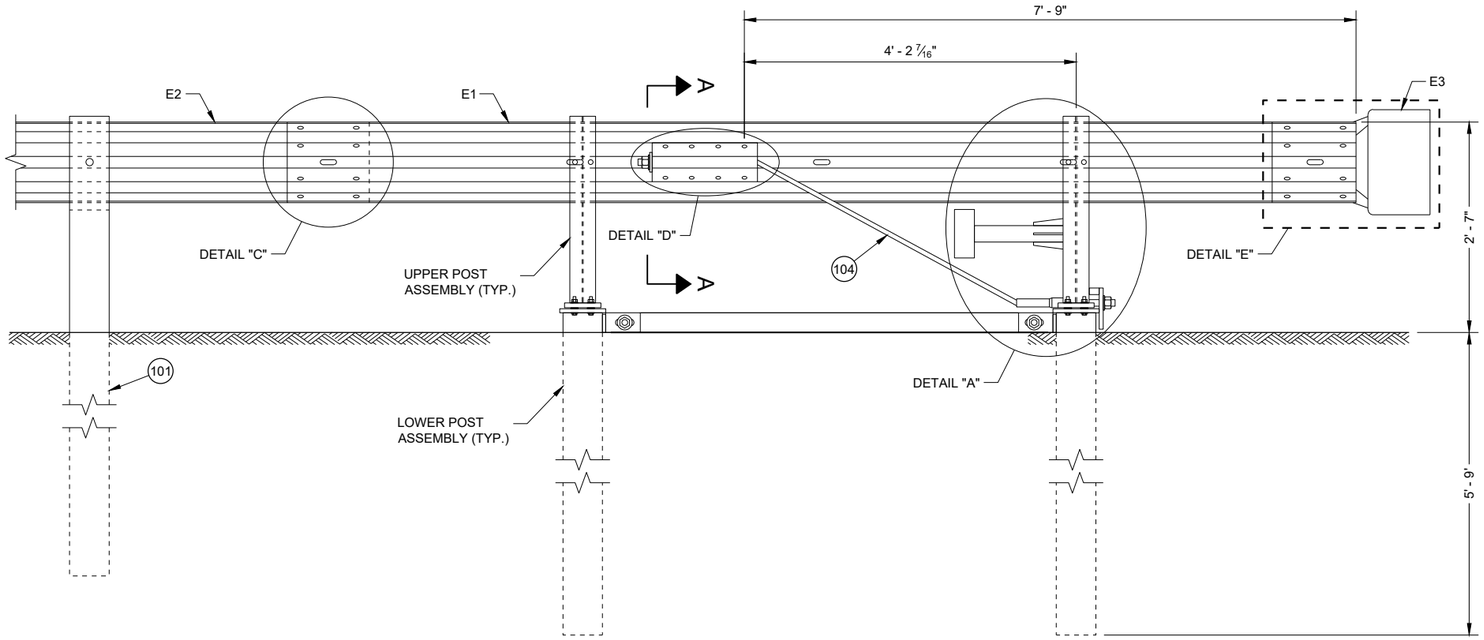
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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7/2018
DATE
FHWA

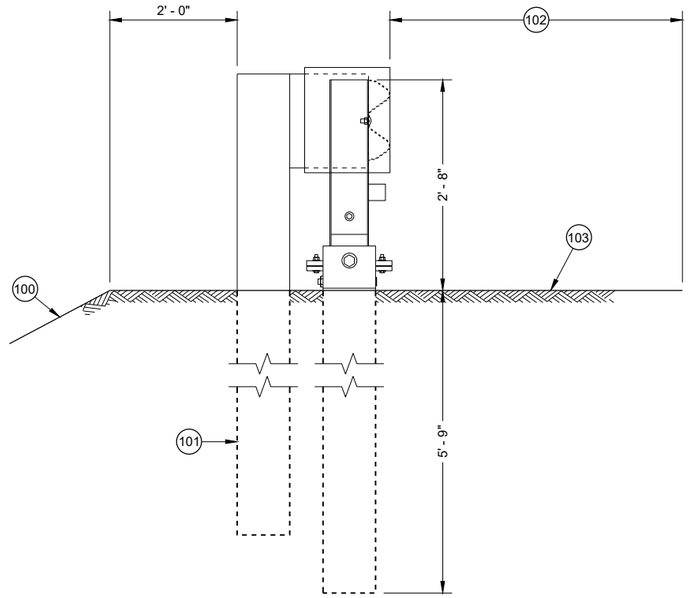
/S/ Rodney Taylor
ROADWAY STANDARDS I
UNIT SUPERVI

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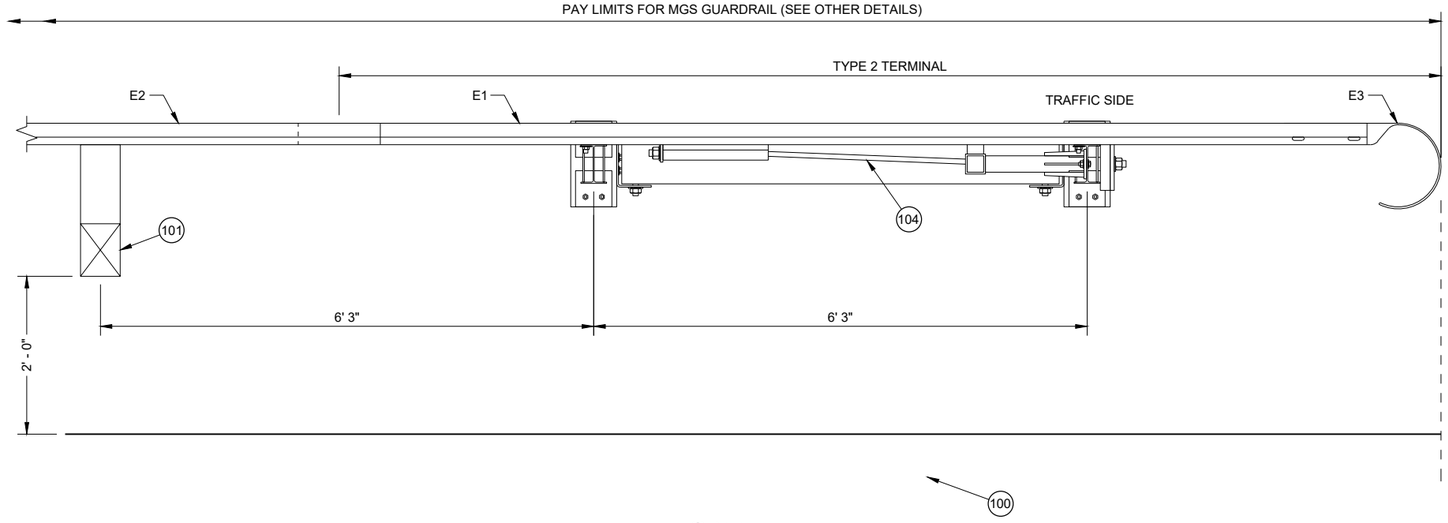
S.D.D. 14 B 45-5i



BACK VIEW
TYPE 2 TERMINAL



SIDE VIEW
TYPE 2 TERMINAL



TOP VIEW
TYPE 2 TERMINAL

GENERAL NOTES

(100) MAXIMUM SLOPE IS 2.5:1.

(101) SEE SDD 14B42 FOR MORE INFORMATION.

(102) SHOULDER

(103) MAXIMUM SLOPE IS 10:1.

(104) AFTER ASSEMBLY, CABLE IS TO BE TIGHTENED WITHOUT TWISTING THE CABLE.

MIDWEST GUARDRAIL SYSTEM (MGS)
TYPE 2 TERMINAL

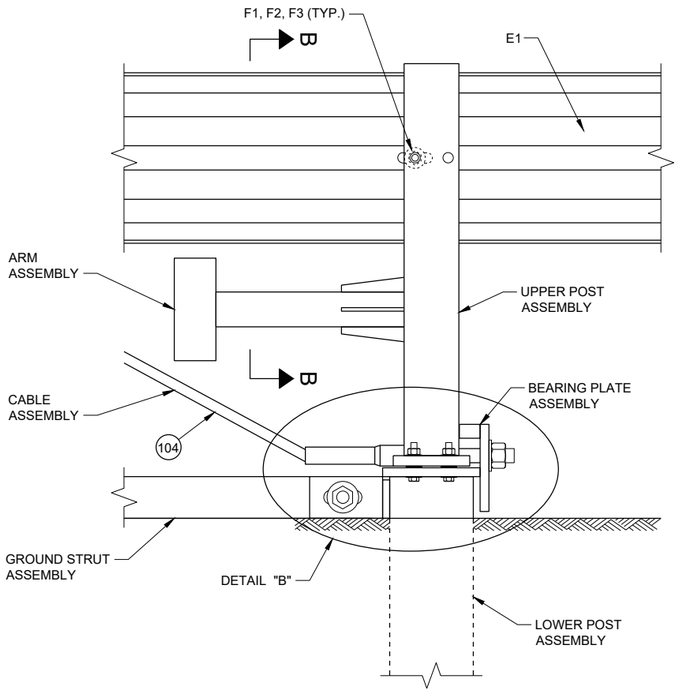
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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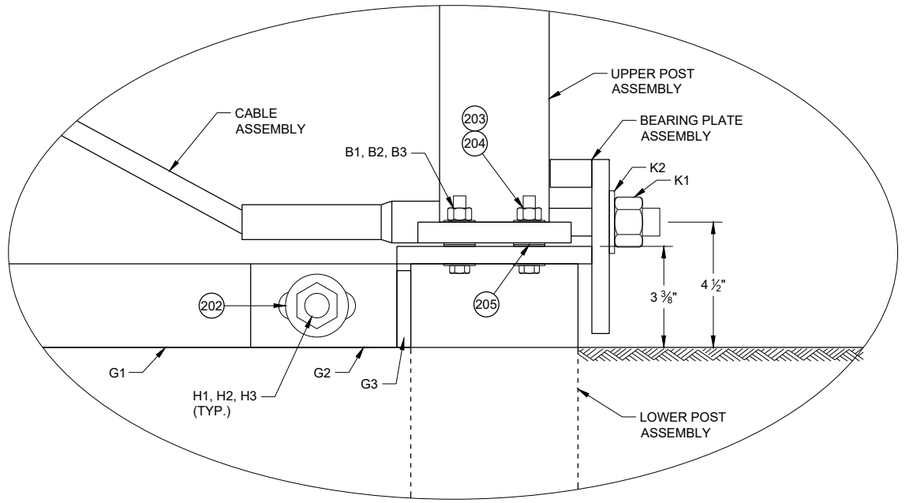
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SDD 14B47 - 03a

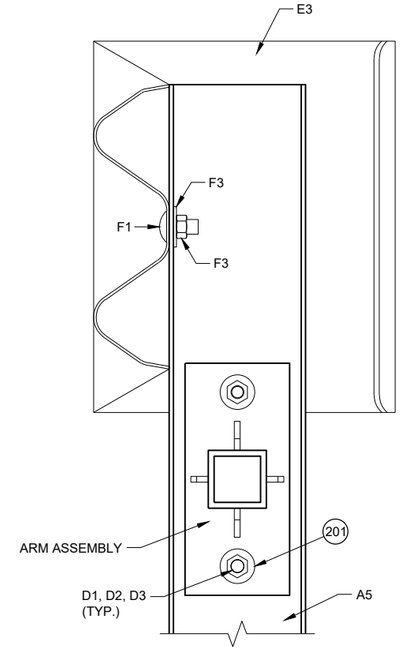
SDD14B47 - 03a



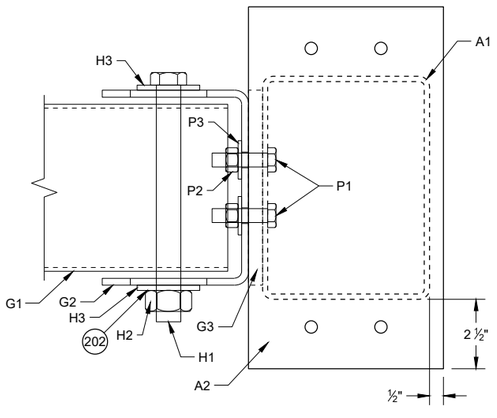
DETAIL "A"



DETAIL "B"

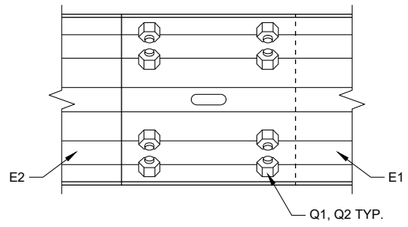


SECTION B - B

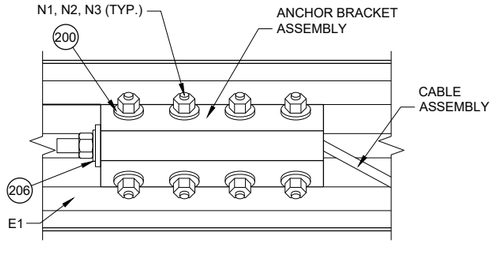


TOP VIEW

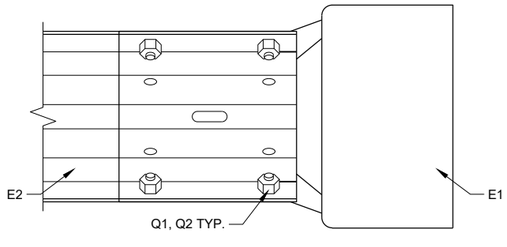
GROUND STRUT CONNECTION DETAIL



DETAIL "C"



DETAIL "D"



DETAIL "E"

GENERAL NOTES

200 INSTALL ONE WASHER UNDER BOLT HEAD AND RAIL AND ON WASHER BETWEEN NUT AND ANCHOR BRACKET ASSEMBLY.

201 INSTALL ONE WASHER UNDER BOLT HEAD AND UPPER POST ASSEMBLY AND ONE WASHER BETWEEN NUT AND ARM PLATE.

202 INSTALL ONE WASHER UNDER BOLT HEAD AND GROUND STRUT CONNECTOR AND ONE WASHER BETWEEN NUT AND GROUND STRUT CONNECTOR.

203 INSTALL ONE WASHER UNDER BOLT HEAD AND LOWER POST ASSEMBLY AND ONE WASHER BETWEEN NUT AND UPPER POST ASSEMBLY.

204 TORQUE VALUE IS BETWEEN 60 - 75 FT-LB.

205 TWO WASHERS BETWEEN UPPER AND LOWER POST ASSEMBLY.

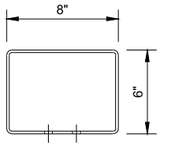
206 INSTALL ONE WASHER BETWEEN NUT AND ANCHOR BRACKET ASSEMBLY.

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

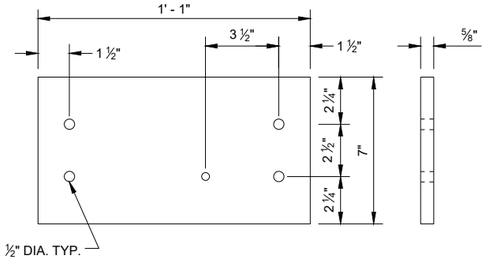
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA

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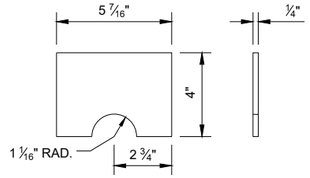
SDD 14B47 - 03b



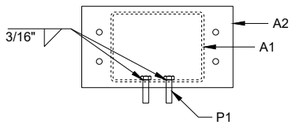
TOP VIEW



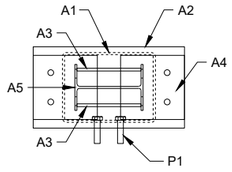
LOWER PLATE (A2)

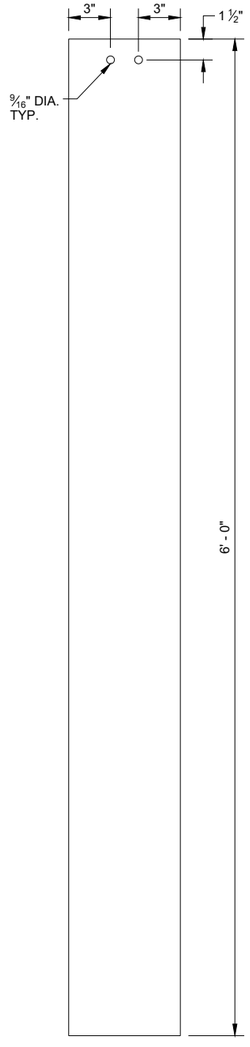


POST GUSSET (A3)



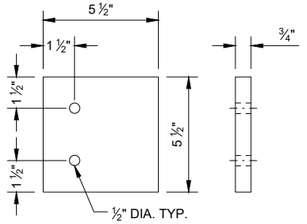
PLAN VIEW



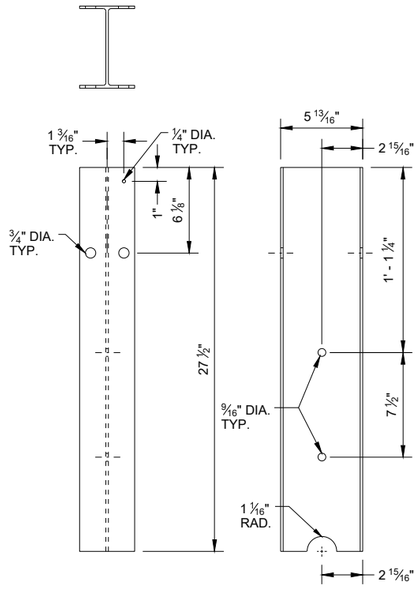


SIDE VIEW

FOUNDATION TUBE (A1)

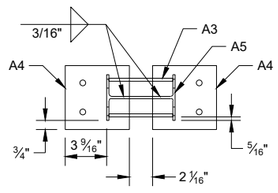


UPPER PLATE (A4)

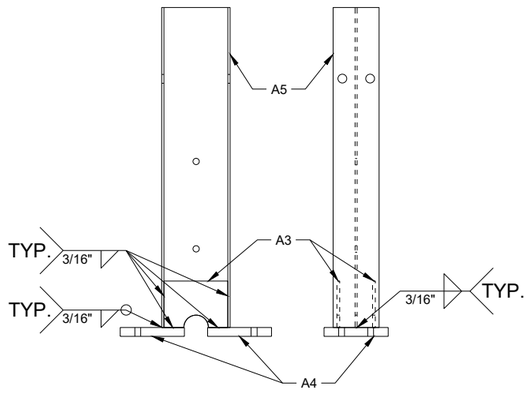


FRONT VIEW SIDE VIEW

TYPE 2 POST (A5)

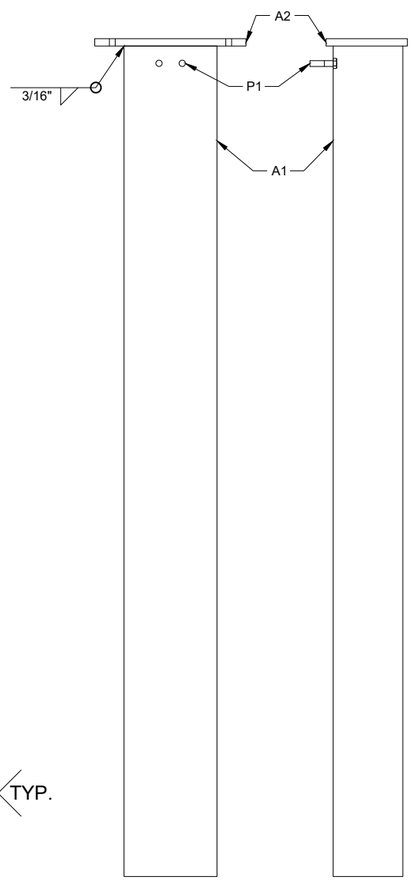


PLAN VIEW



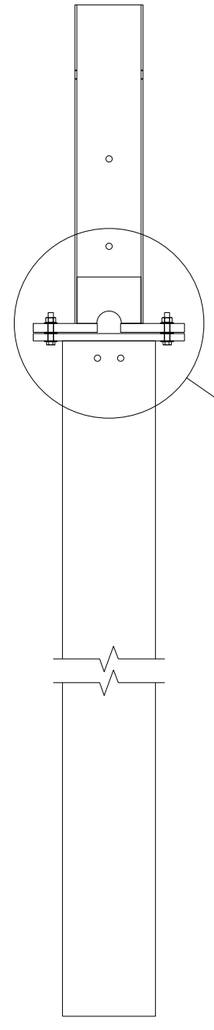
SIDE VIEW FRONT VIEW

UPPER POST ASSEMBLY

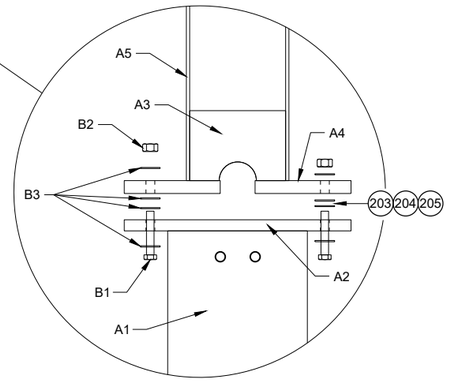


FRONT VIEW SIDE VIEW

LOWER POST ASSEMBLY



ASSEMBLED POST



POST CONNECTION DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

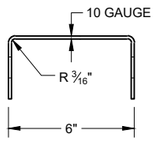
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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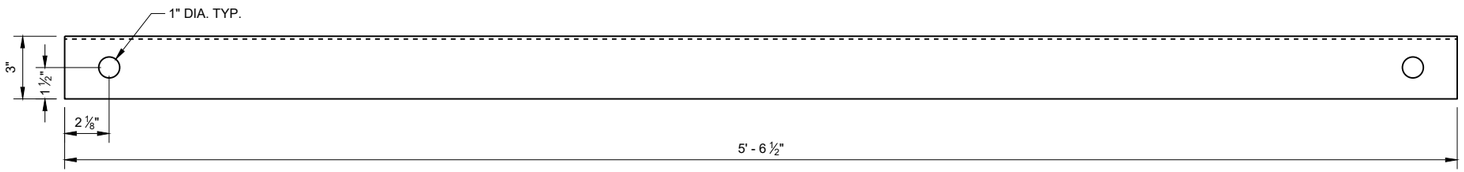
SDD14B47 - 03c

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SDD14B47 - 03c

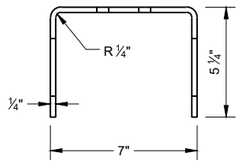


SIDE VIEW

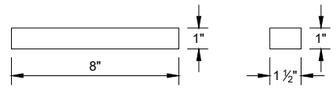


FRONT VIEW

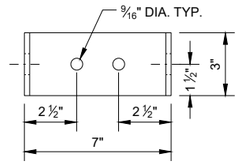
GROUND STRUT CHANNEL (G1)



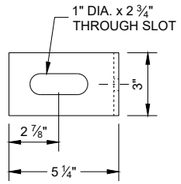
TOP VIEW



BEARING PLATE FLANGE (L2)

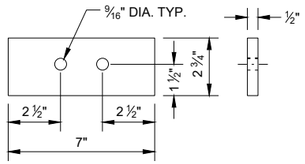


FRONT VIEW

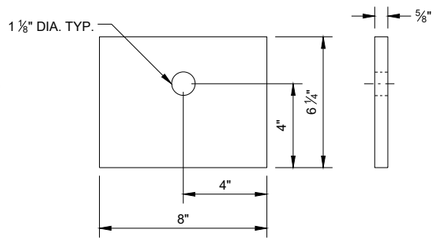


SIDE VIEW

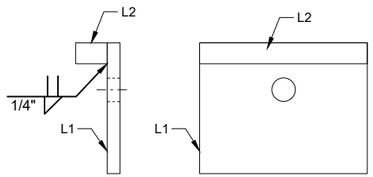
GROUND STRUT CONNECTOR (G2)



GROUND STRUT PLATE (G3)

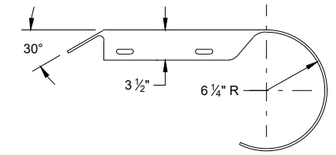


BEARING PLATE (L1)

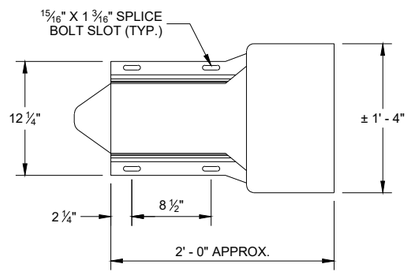


SIDE VIEW FRONT VIEW

BEARING PLATE ASSEMBLY

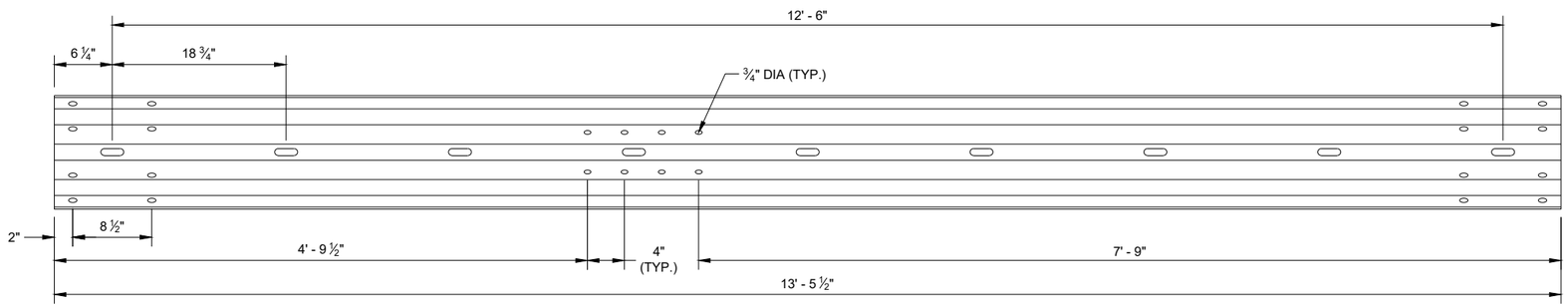


PLAN VIEW

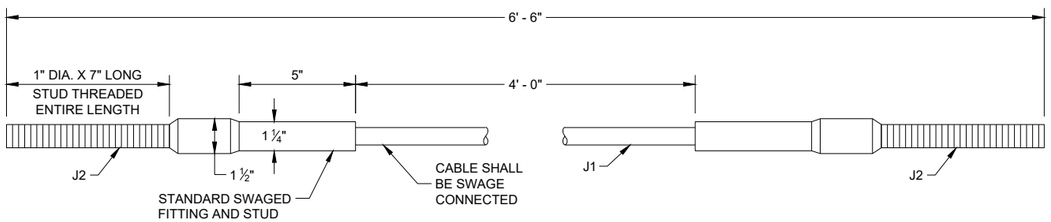


ELEVATION VIEW

ROUNDED BUFFER END (E3)



TYPE 2 GUARDRAIL (E1)



CABLE ASSEMBLY

6

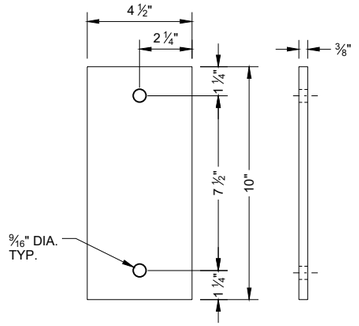
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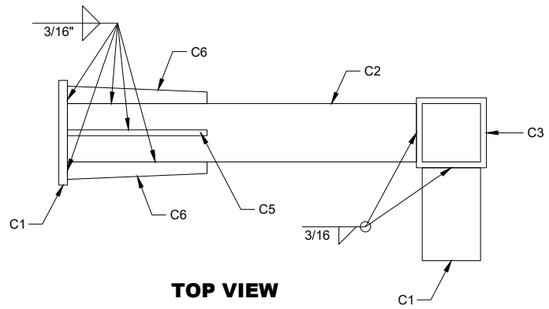
SDD 14B47 - 03d

MIDWEST GUARDRAIL SYSTEM (MGS)
TYPE 2 TERMINAL

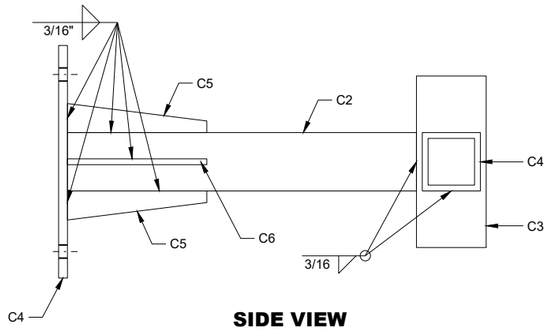
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



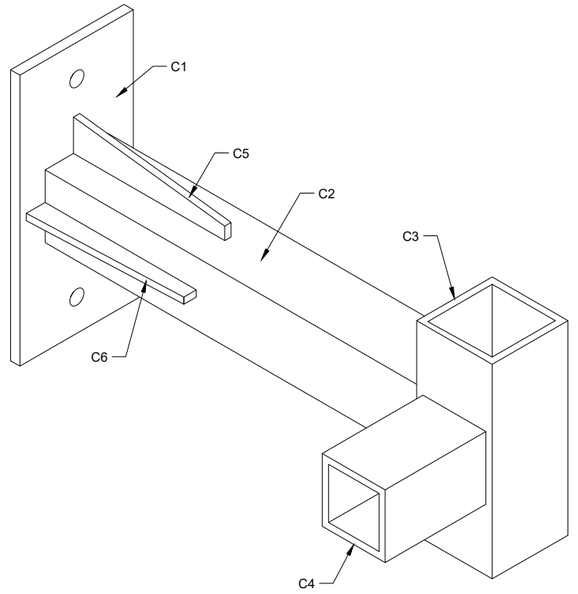
ARM PLATE (C1)



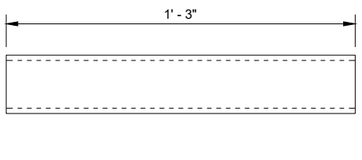
TOP VIEW
ARM ASSEMBLY



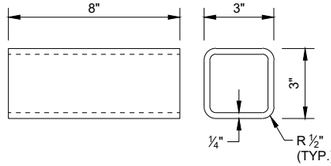
SIDE VIEW
ARM ASSEMBLY



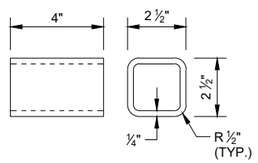
ISOMETRIC VIEW
ARM ASSEMBLY



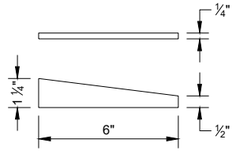
ARM TUBE 1 (C2)



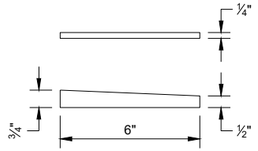
ARM TUBE 2 (C3)



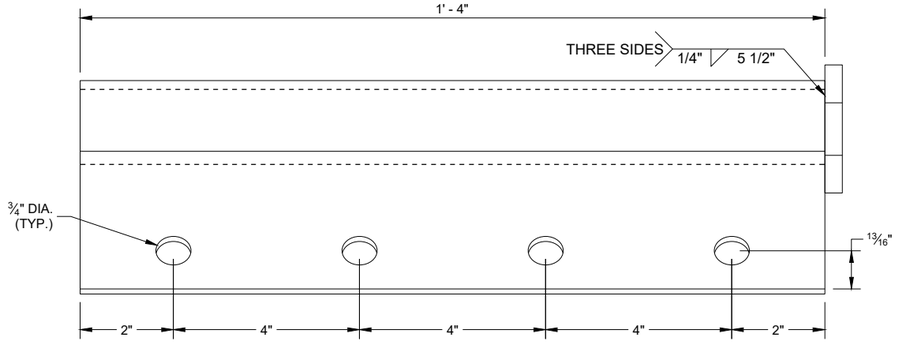
ARM TUBE 3 (C4)

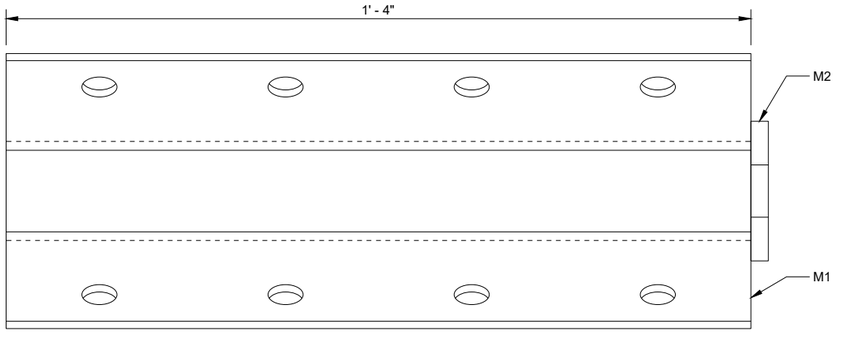


ARM GUSSET PLATE 1 (C5)

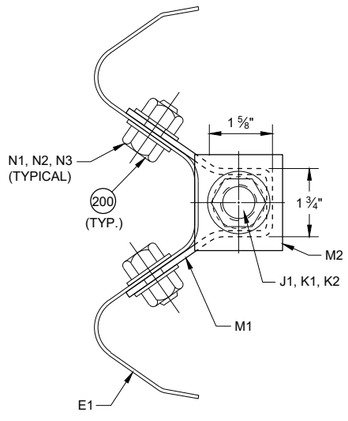


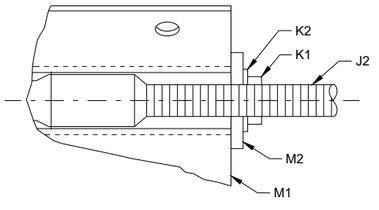
ARM GUSSET PLATE 2 (C6)



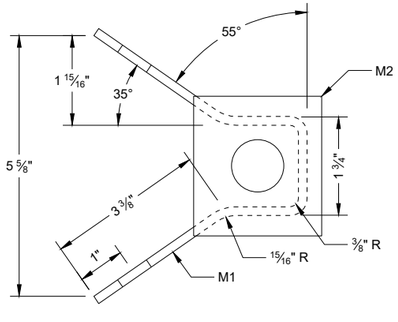


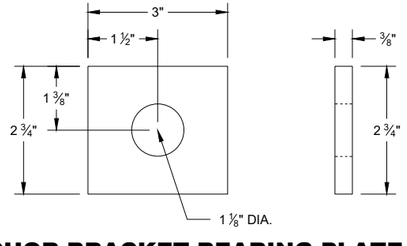
ANCHOR BRACKET (M1, M2)





SECTION A - A





ANCHOR BRACKET BEARING PLATE (M2)

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 14B47 - 03e

BILL OF MATERIALS - TYPE 2 TERMINAL (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
A1	TYPE 2 FOUNDATION TUBE	AASHTO M111 / ASTM A123 ASTM A500 GRADE B OR ASTM A-501	TS 8" x 6" x 3/16"
A2	LOWER PLATE	AASHTO M111 / ASTM A123 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	5/8" THICKNESS
A3	POST GUSSET	AASHTO M111 / ASTM A123 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	1/4" THICKNESS
A4	UPPER PLATE	AASHTO M111 / ASTM A123 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	3/4" THICKNESS
A5	TYPE 2 POST	AASHTO M111 / ASTM A123 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	
B1	BREAKAWAY BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC HEAVY HEX HEAD ASTM F3125 GRADE A325 TYPE 1 HEAVY HEX HEAD OR SAE J429 GRADE 5 HEAVY HEX HEAD / ASTM A449 TYPE 1 HEAVY HEX HEAD. BOLTS MAY BE FULLY THREADED . PROVIDE ENOUGH THREADING FOR PROPER TIGHTENING OF BOLT.	7/16" DIA.
B2	BREAKAWAY BOLT WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)	7/16" DIA.
B3	BREAKAWAY BOLT NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291/ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
C1	ARM ASSEMBLY PLATE	AASHTO M111 / ASTM A123 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	3/8" THICKNESS
C2	ARM ASSEMBLY TUBE 1	AASHTO M111 / ASTM A123 ASTM A500 GRADE B OR ASTM A-501	TS 8" x 6" x 3/16"
C3	ARM ASSEMBLY TUBE 2	AASHTO M111 / ASTM A123 ASTM A500 GRADE B OR ASTM A-501	TS 3" x 3" x 1/4"
C4	ARM ASSEMBLY TUBE 3	AASHTO M111 / ASTM A123 ASTM A500 GRADE B OR ASTM A-501	TS 2 1/2" x 2 1/2" X 1/4"
C5	ARM ASSEMBLY GUSSET PLATE 1	AASHTO M111 / ASTM A123 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	1/4" THICKNESS
C6	ARM ASSEMBLY GUSSET PLATE 2	AASHTO M111 / ASTM A123 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	1/4" THICKNESS
D1	ARM ASSEMBLY BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC HEAVY HEX HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	1/2" DIA.
D2	ARM ASSEMBLY WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)	1/2" DIA.
D3	ARM ASSEMBLY NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	1/2" DIA.
E1	TYPE 2 GUARD RAIL	AASHTO M180 CLASS A TYPE 2 12 GAUGE APPROVED PRODUCER	
E2	BEAM GUARD RAIL	AASHTO M180 CLASS A TYPE 2 12 GAUGE APPROVED PRODUCER	
E3	BEAM GUARD ROUNDED BUFFER END	AASHTO M180 CLASS A TYPE 2 12 GAUGE APPROVED PRODUCER	
F1	POST BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC UNC HEAVY HEX HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	5/8" DIA.
F2	POST BOLT WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)	5/8" DIA.
F3	POST BOLT NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291/ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
G1	GROUND STRUT CHANNEL	AASHTO M111 / ASTM A123 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	1/2" x 11 3/4" x 10 GAUGE
G2	GROUND STRUT CONNECTOR	AASHTO M111 / ASTM A123 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	1/4" THICKNESS
G3	GROUND STRUT PLATE	AASHTO M111 / ASTM A123 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	1/2" THICKNESS

6

SDD 14B47 - 03f

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA

6

SDD 14B47 - 03f

BILL OF MATERIALS - TYPE 2 TERMINAL (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
H1	GROUND STRUT BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC HEAVY HEX HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	7/8" DIA.
H2	GROUND STRUT BOLT WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)	7/8" DIA.
H3	GROUND STRUT BOLT NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC HEAVY HEX HEAD 5/8" ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	
J1	BCT CABLE	AASHTO M30 / ASTM A741 6 x 19 INDEPENDENT WIRE CORE (IWRC) IMPROVED PLOW STEEL (IPS), 6 x 19 INDEPENDENT WIRE CORE (IWRC) IMPROVED PLOW STEEL (IPS) TYPE II OR IIC, CLASS C ZINC COATED MIN. BREAKING STRENGTH OF 42.7 KIPS	**3/4" DIA.**
J2	BCT CABLE	UNC 1" ASTM A576 GRADE 1035 SWAGE FITTINGS ARE TO BE FACTORY SWEDGED. MIN BREAKING STRENGTH OF 42.7 KIPS ASME B30.26 "FORGED, CAST, OR DIE STAMPED WITH THE FOLLOWING IN TO CONNECTION: NAME OF MANUFACTURE OR TRADEMARK OF CONNECTION'S MANUFACTURER, SIZE OR RATED LOAD, GRADE FOR ALLOY EYEBOLTS."	
K1	CABLE ASSEMBLY NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	1" DIA.
K2	CABLE ASSEMBLY WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1	1" DIA.
L1	BEARING PLATE	AASHTO M111 / ASTM A123 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	5/8" THICKNESS
L2	BEARING PLATE FLANGE	AASHTO M111 / ASTM A123 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	1" THICKNESS
M1	BEAM GUARD ANCHOR BRACKET	AASHTO M111 / ASTM A123 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	
M2	BEAM GUARD ANCHOR END PLATE	AASHTO M111 / ASTM A123 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	3/8" THICKNESS
N1	ANCHOR BRACKET BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC AASHTO M180 HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	5/8" DIA.
N2	ANCHOR BRACKET BOLT WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)	5/8" DIA.
N3	ANCHOR BRACKET BOLT NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 /ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
P1	FOUNDATION TUBE BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 /ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	1/2" DIA.
P2	FOUNDATION TUBE WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 7/8" ASTM F844 TYPE 1 (HARDENED WASHER ONLY)	1/2" DIA.
P3	FOUNDATION TUBE NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
Q1	SPLICE BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC AASHTO M180 HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	
Q2	SPLICE NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	5/8" DIA.

6

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2021
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER
FHWA

SDD 14B47 - 03g

GENERAL NOTES

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

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING

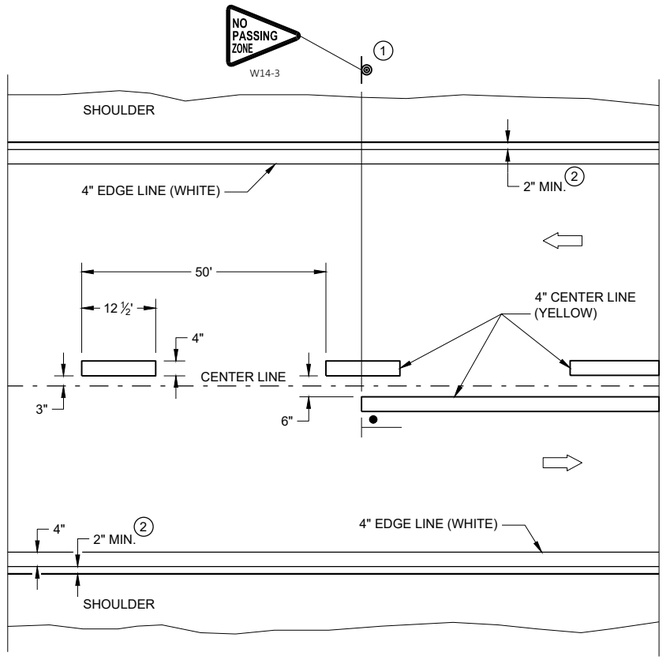
(2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

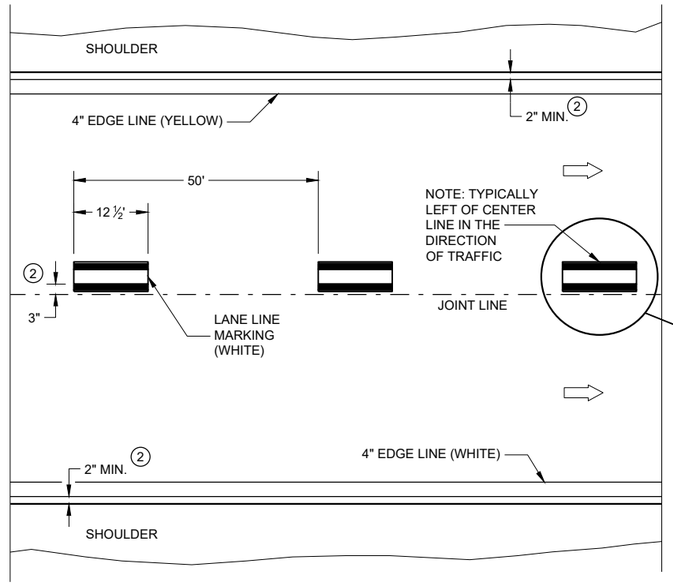
"T" MARKING

SIGN ON PERMANENT SUPPORT

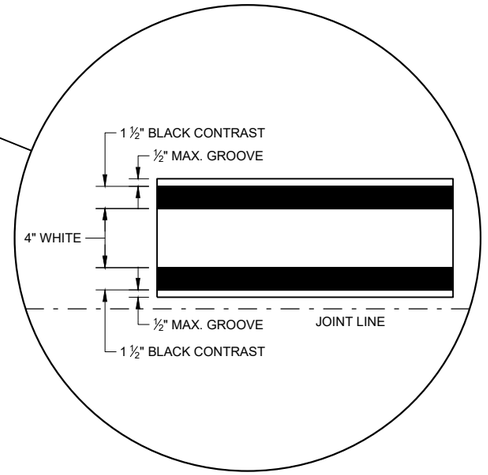
DIRECTION OF TRAFFIC



TWO WAY TRAFFIC



ONE WAY TRAFFIC



PERMANENT PAVEMENT MARKING

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022 — DATE
/S/ Jeannie Silver — STATEWIDE SIGNING AND M ENGINEER

FHWA

SDD 15C08 - 21a

SDD 15C08 - 21a

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET
0-30	200'
35-40	350'
45-55	500'

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

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

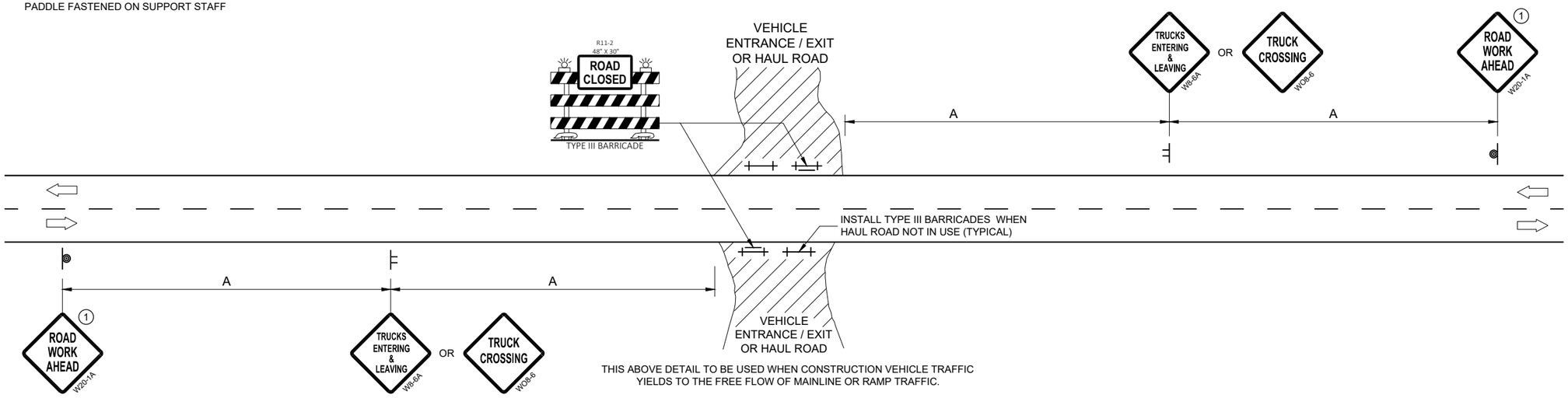
WARNING SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

WHEN ACTIVITY REFLECTED BY THE SIGN IS NOT CURRENTLY TAKING PLACE, THE HIGHWAY SHALL BE RESTORED TO NORMAL CONDITION AND THE SIGNS SHALL BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC.

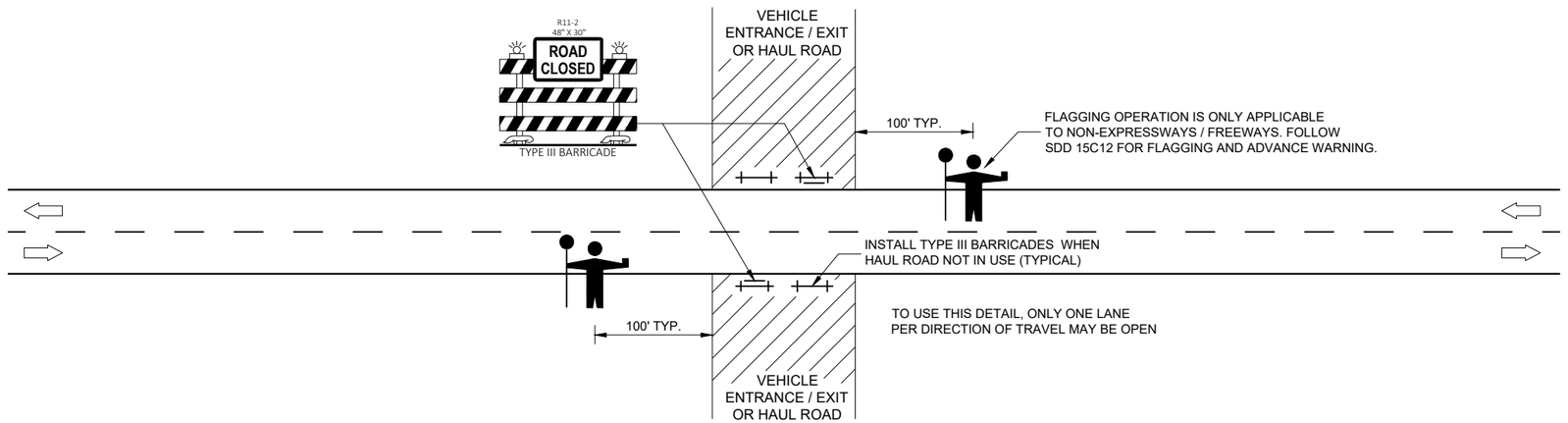
WHEN A SIDE ROAD OR RAMP INTERSECTS WITHIN THE ADVANCE SIGNING AREA, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND / OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

PLACE SIGNS ON BOTH SIDES IF USED ON DIVIDED HIGHWAY.

(1) THESE SIGNS ARE TO BE USED ONLY WHEN VEHICLE ENTRANCE / EXIT CONDITIONS ARE SEPARATED BY MORE THAN TWO MILES FROM PREVIOUS WORK AREA OR SIGNING OR AS DIRECTED BY THE ENGINEER.



THIS ABOVE DETAIL TO BE USED WHEN CONSTRUCTION VEHICLE TRAFFIC YIELDS TO THE FREE FLOW OF MAINLINE OR RAMP TRAFFIC.



TO USE THIS DETAIL, ONLY ONE LANE PER DIRECTION OF TRAVEL MAY BE OPEN

THIS DETAIL TO BE USED WHEN CONSTRUCTION WORK INCLUDING TRUCKING ACTIVITY REQUIRES MAINLINE TRAFFIC TO BE TEMPORARILY STOPPED IN ONE OR BOTH DIRECTIONS. DELAY TO HIGHWAY TRAFFIC SHALL BE MINIMIZED.

TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

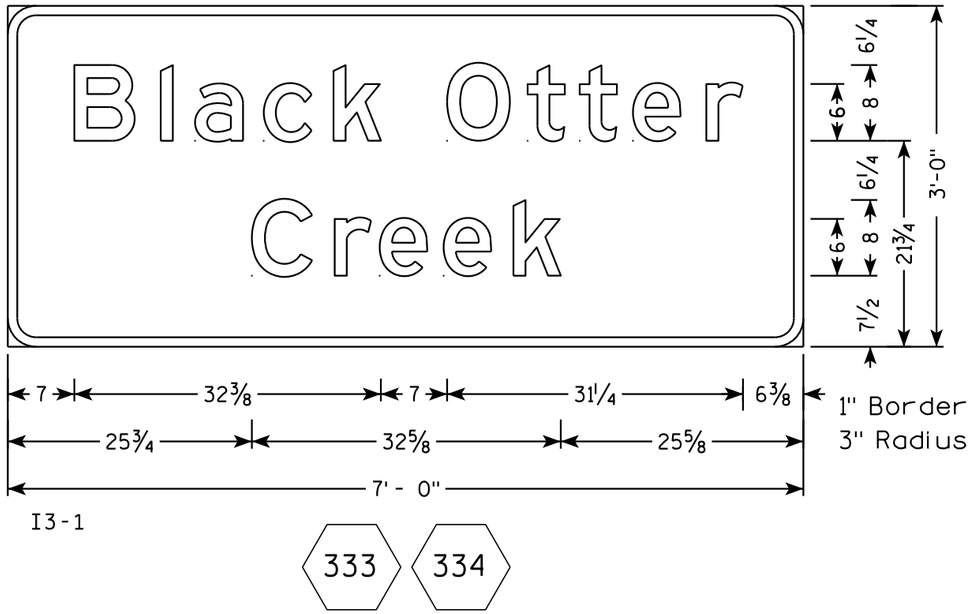
FHWA

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SDD 15D29 - 06

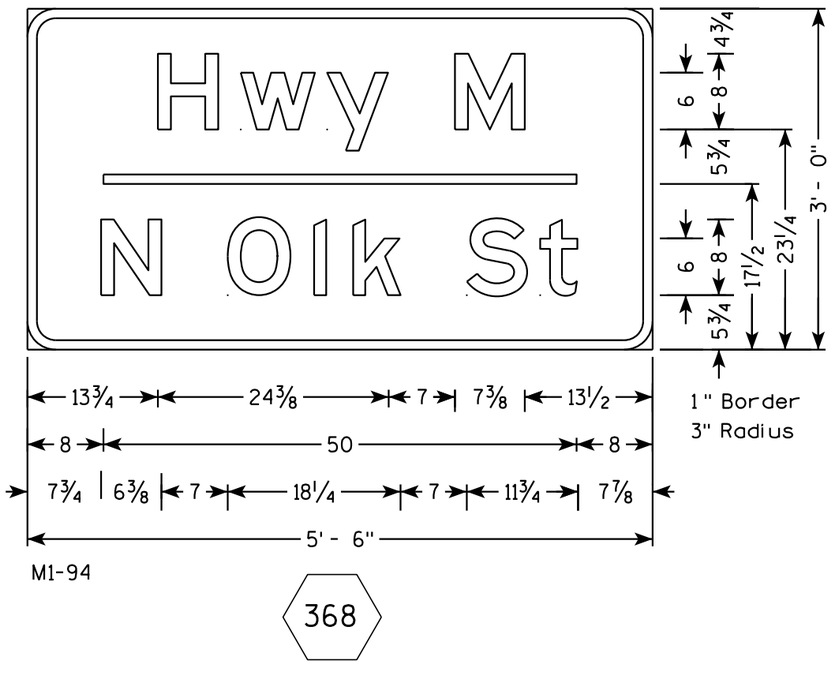
NOTES

1. All Sign Type II - Type H Reflective
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - E



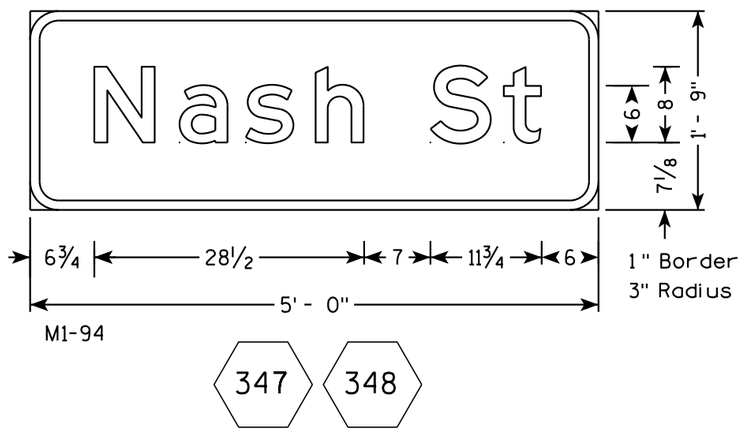
I3-1

333 334



M1-94

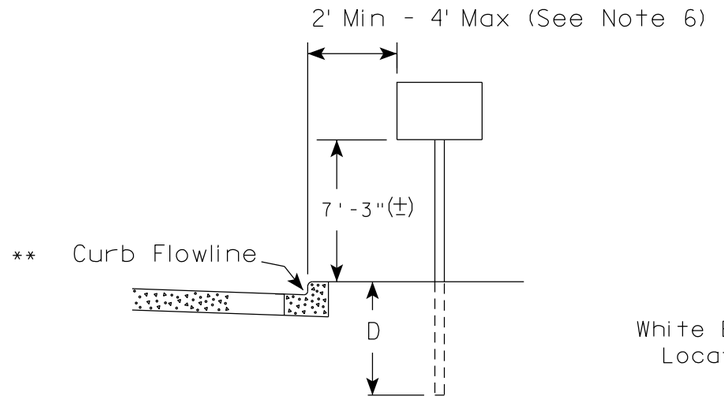
368



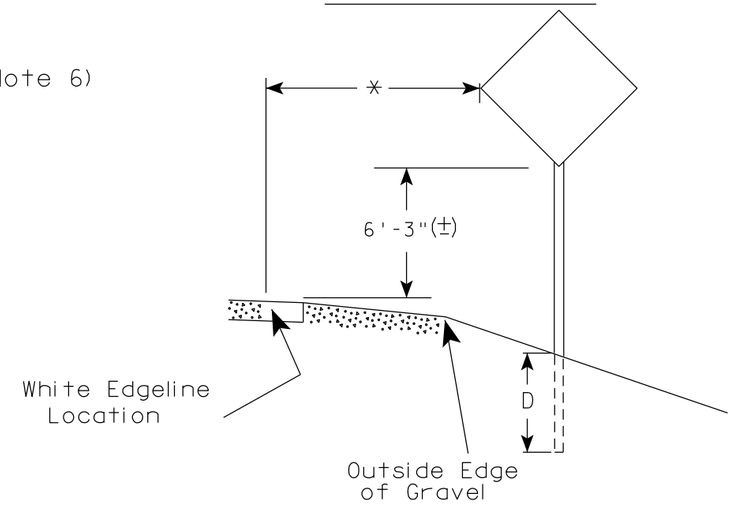
M1-94

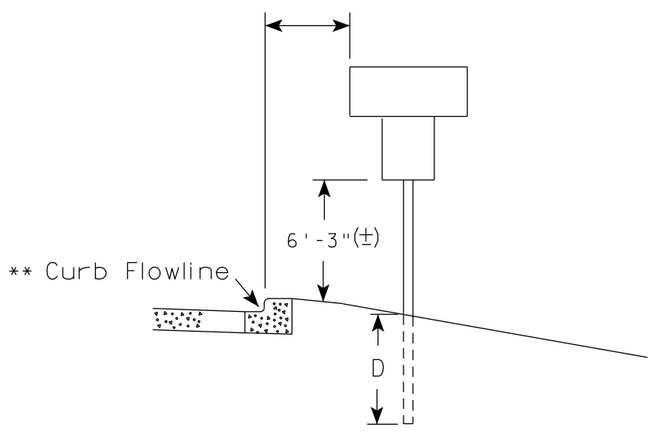
347 348

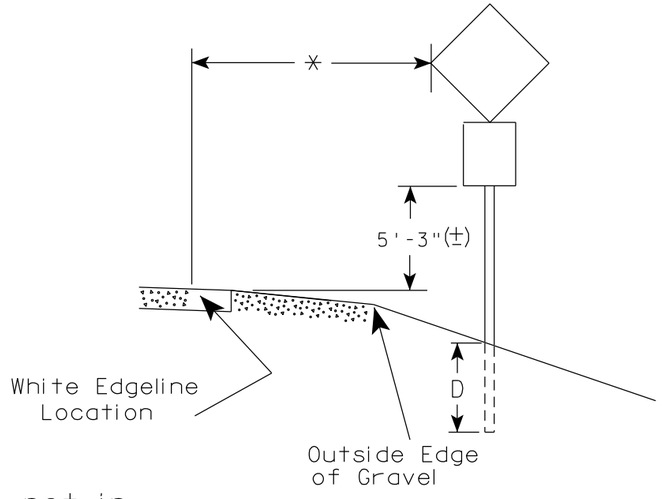
URBAN AREA



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 or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. The (±) tolerance for mounting height is 3 inches.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.

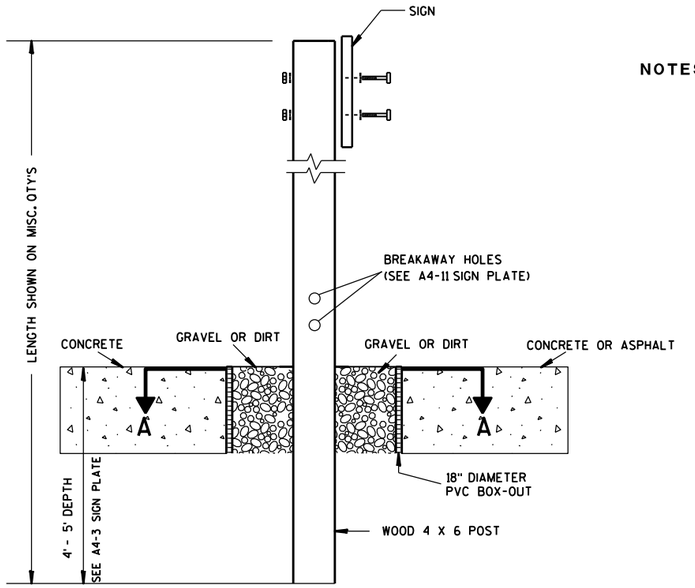
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

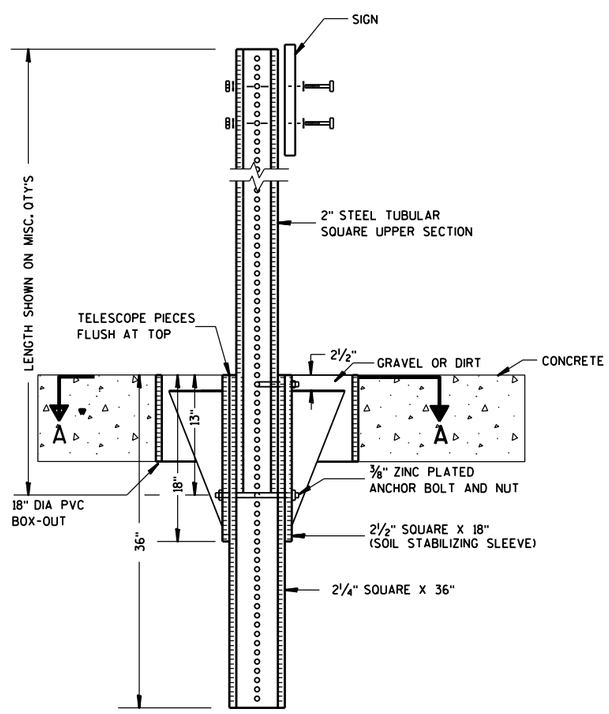
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 149	E



ELEVATION VIEW

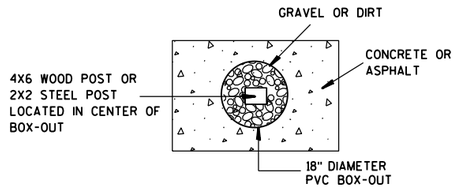
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

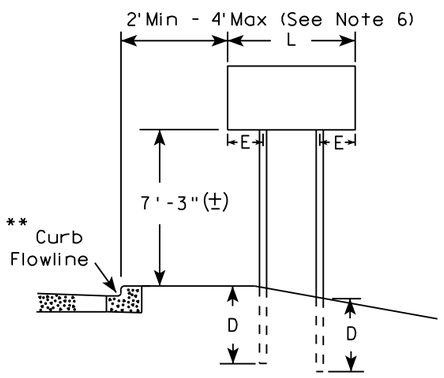
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

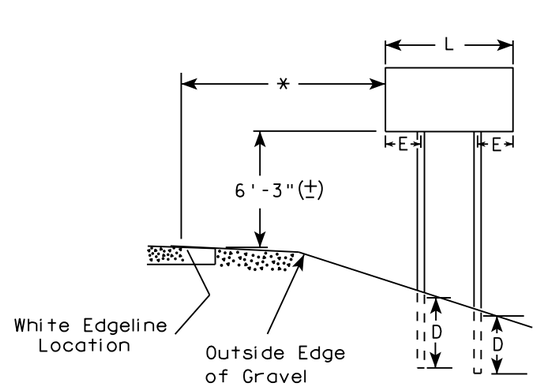
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

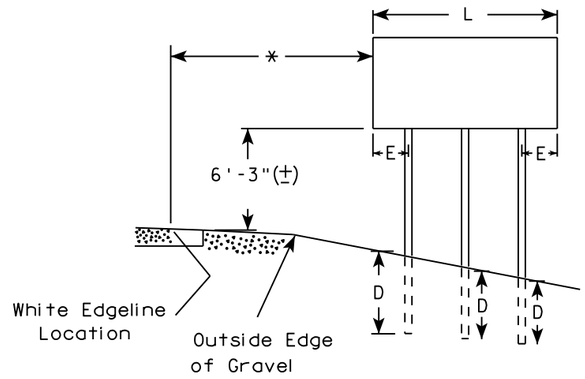
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

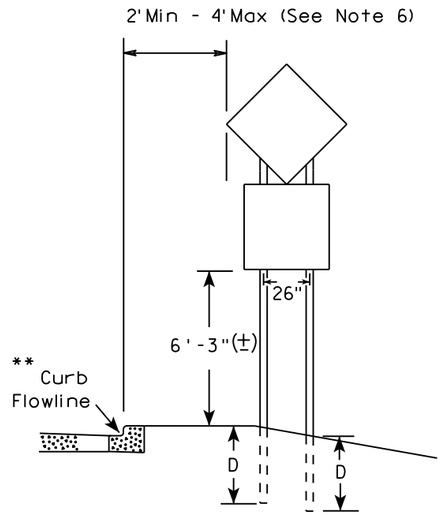
URBAN AREA



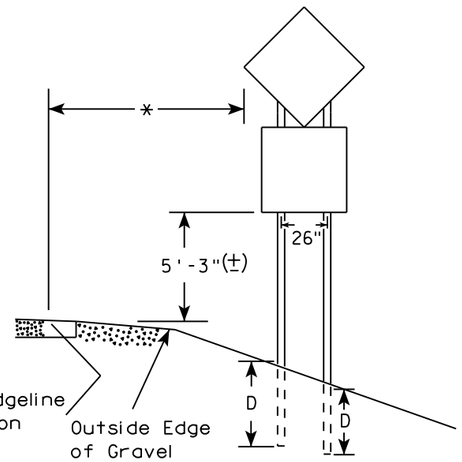
RURAL AREA (See Note 3)







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'

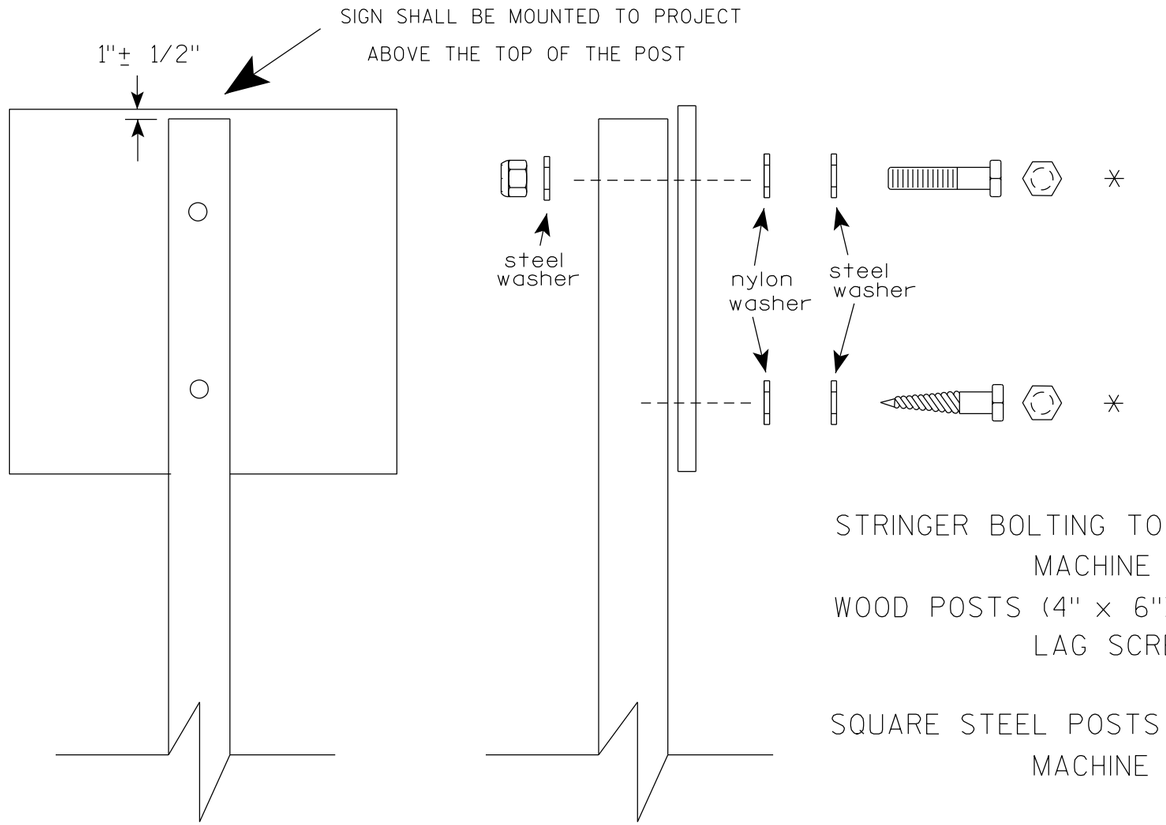
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

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: 151	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 6")

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

SQUARE STEEL POSTS (2" x 2")

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

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

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

ATTACHMENT OF SIGNS TO POSTS

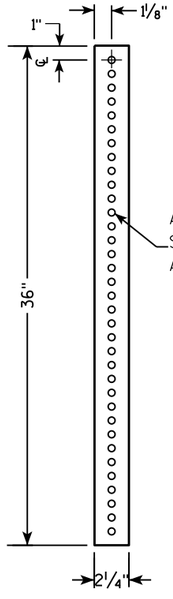
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

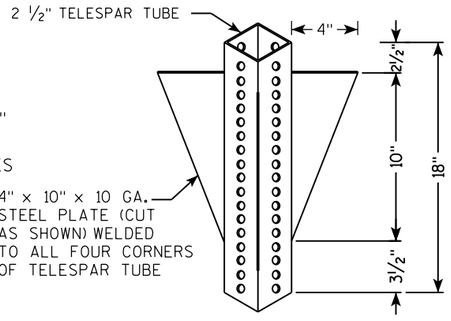
DATE 4/1/2020 PLATE NO. A4-8.9

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

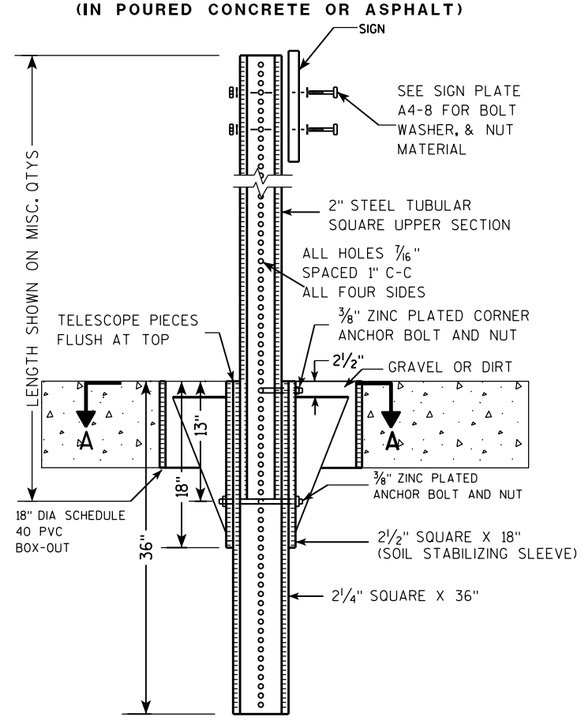
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



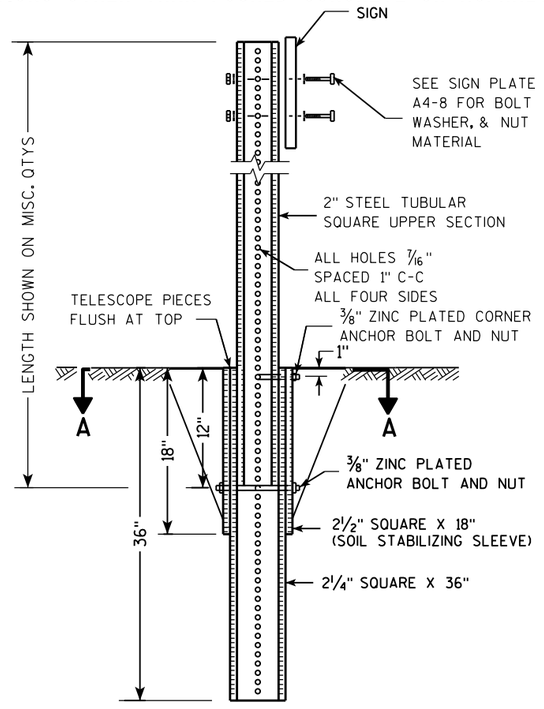
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

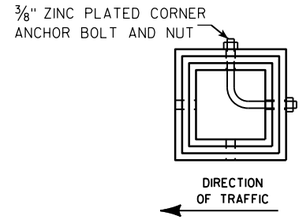


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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





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

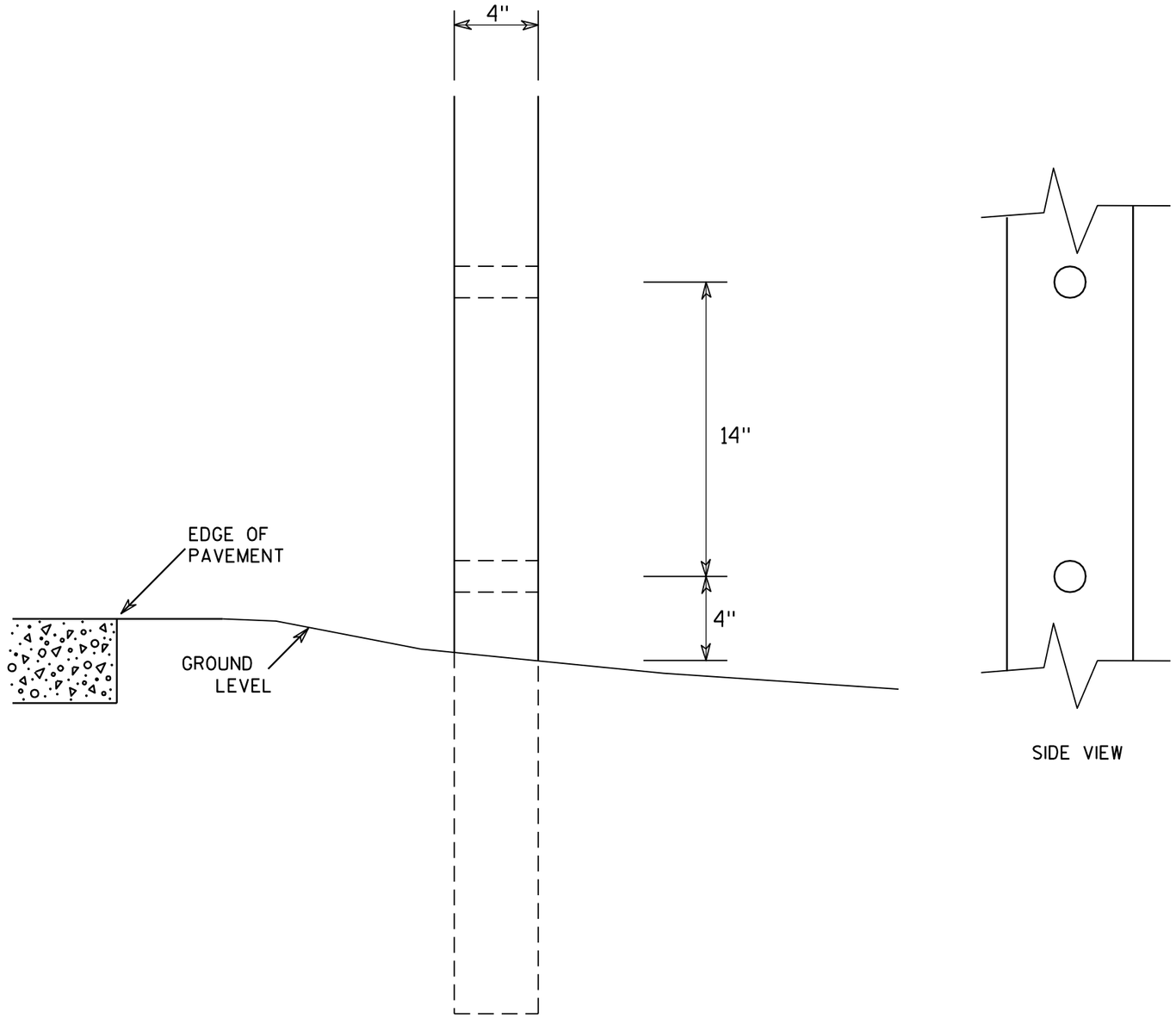
WISCONSIN DEPT OF TRANSPORTATION

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.

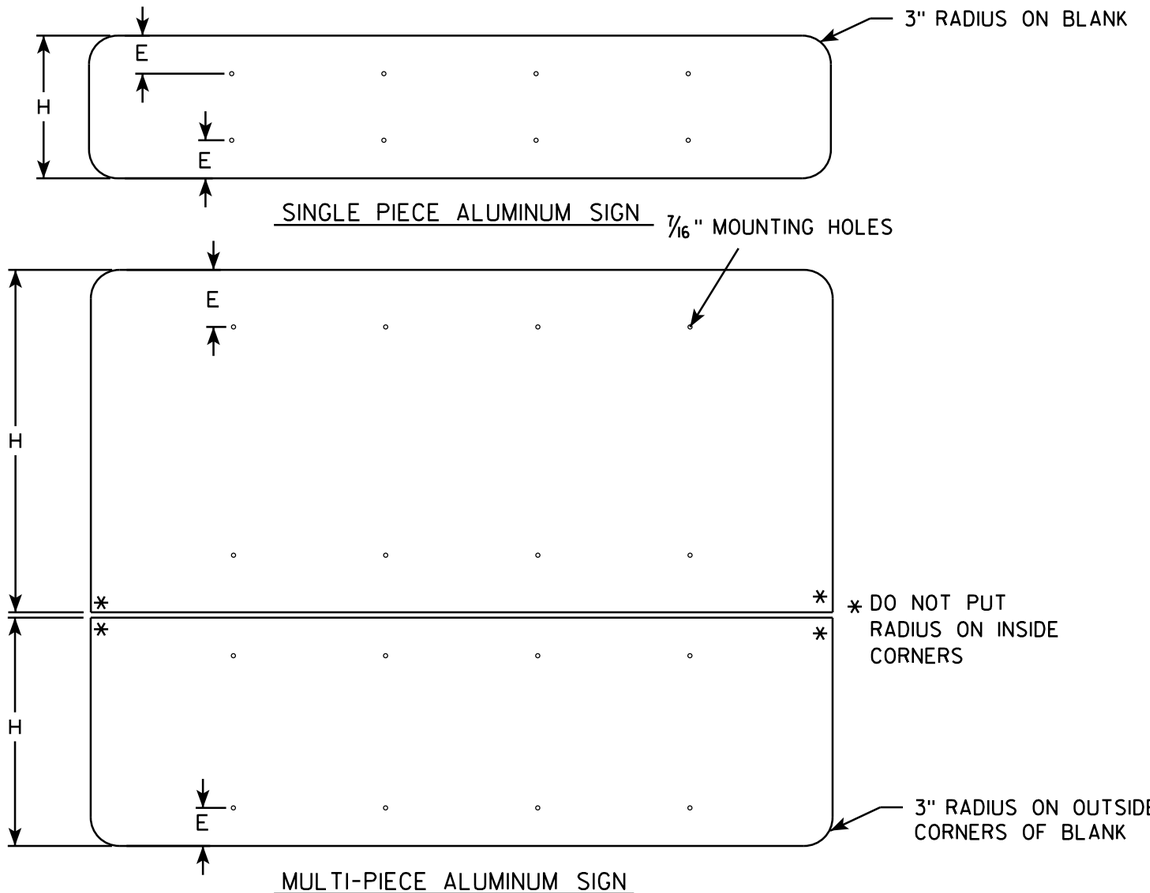
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

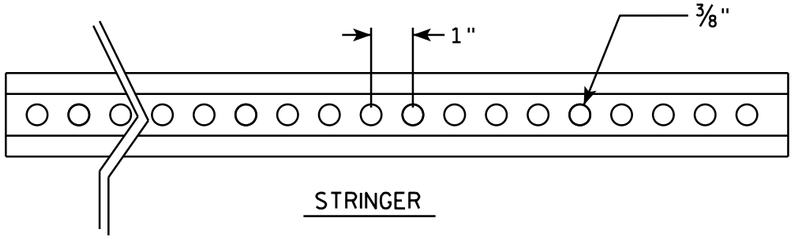
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 154	E



GENERAL NOTES

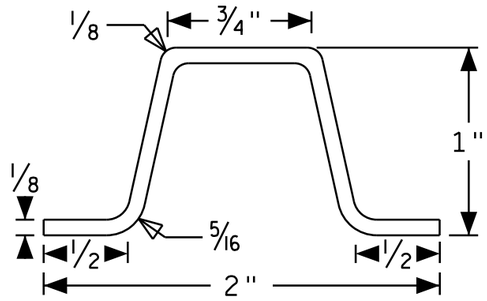
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 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"

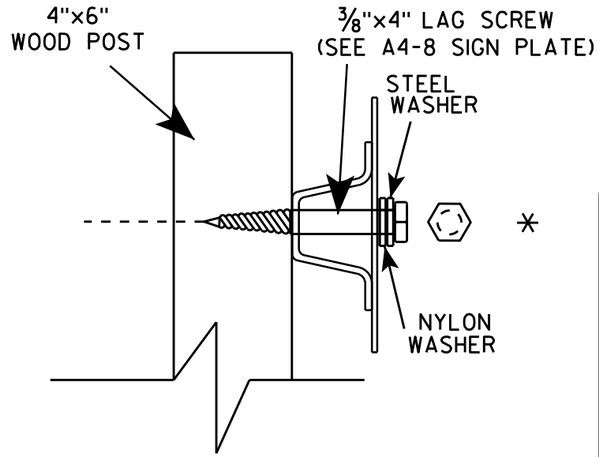


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

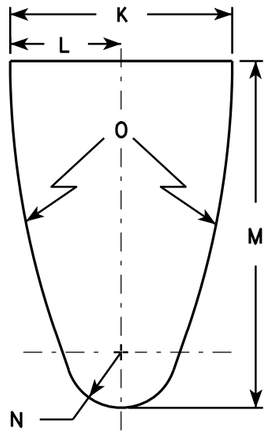
APPROVED Matthew R Rauch

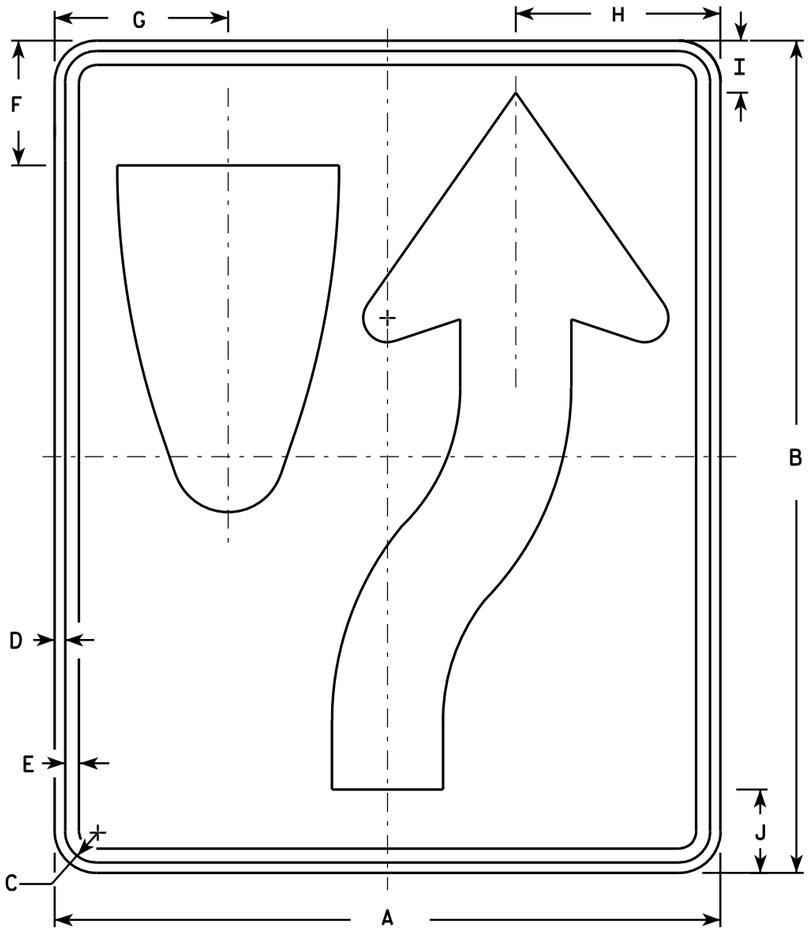
for State Traffic Engineer

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

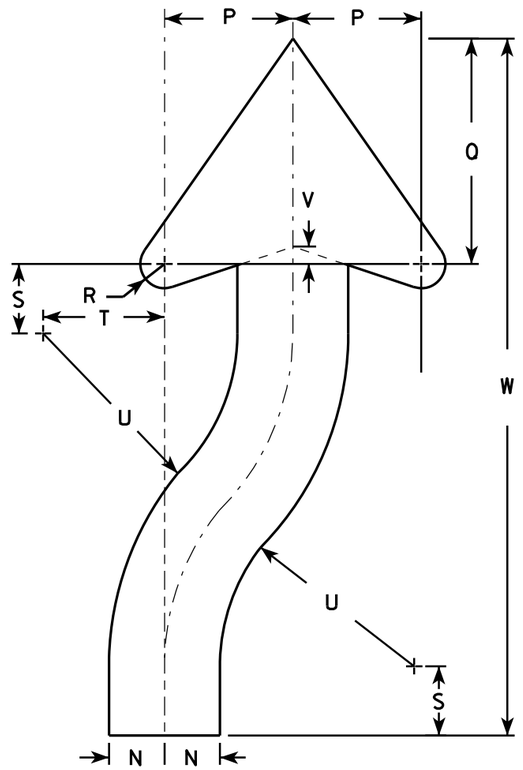




R4-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



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	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

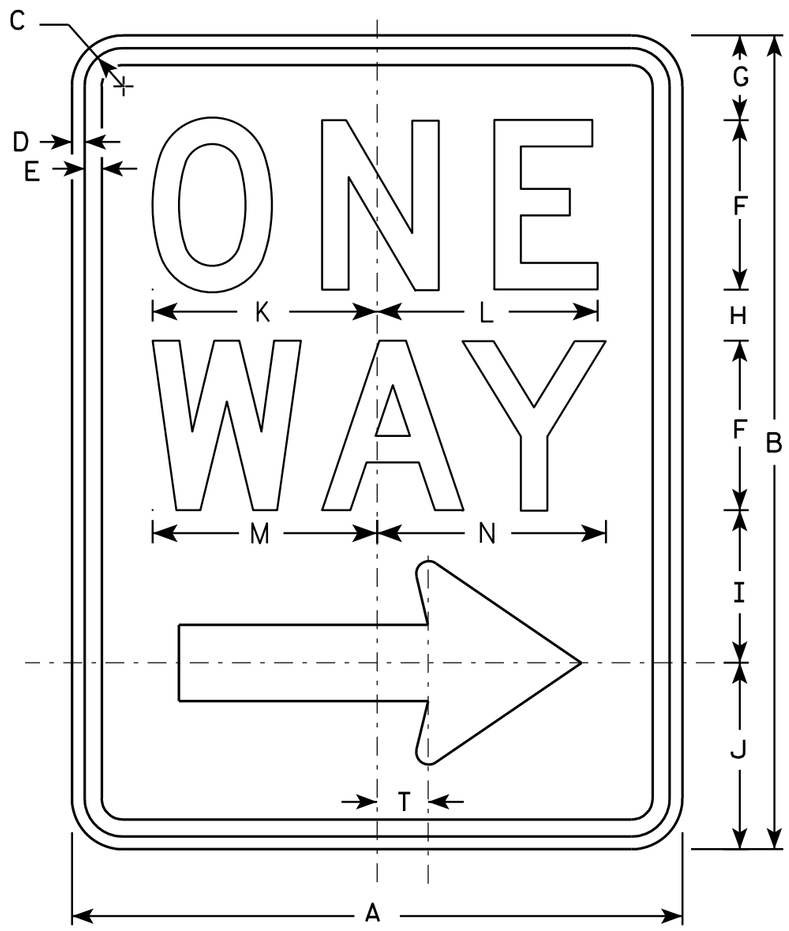
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

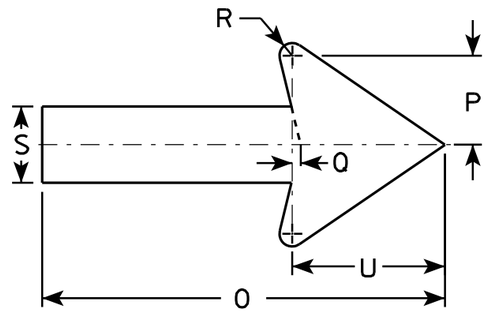
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 156	E



R6-2R

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.
5. R6-2L same as R6-2R except arrow points to the left.



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
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

STANDARD SIGN
R6-2 R&L

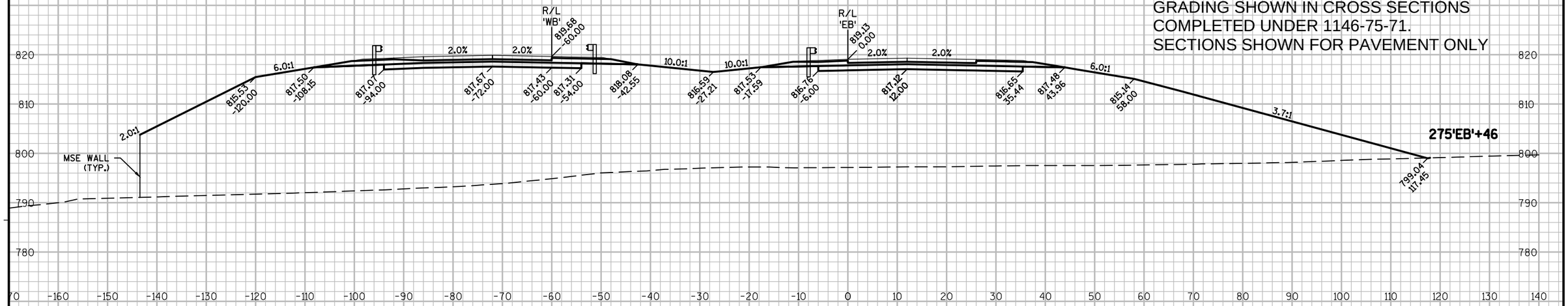
WISCONSIN DEPT OF TRANSPORTATION

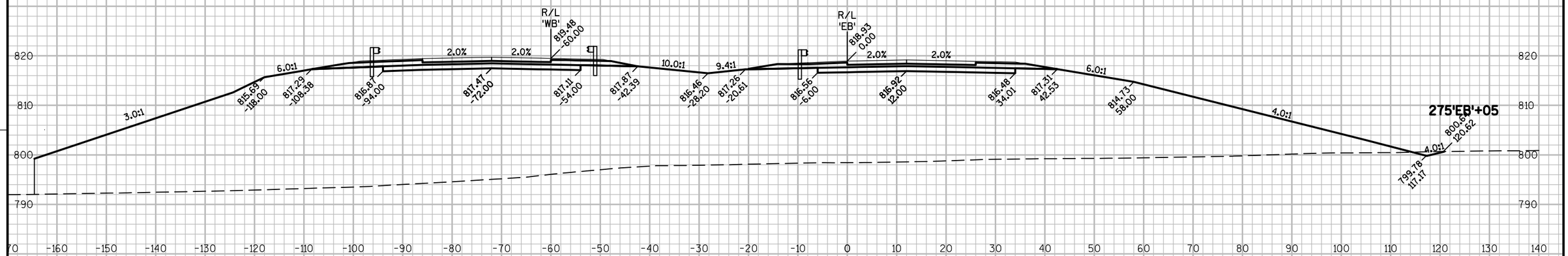
APPROVED Matthew R Rauch
for State Traffic Engineer

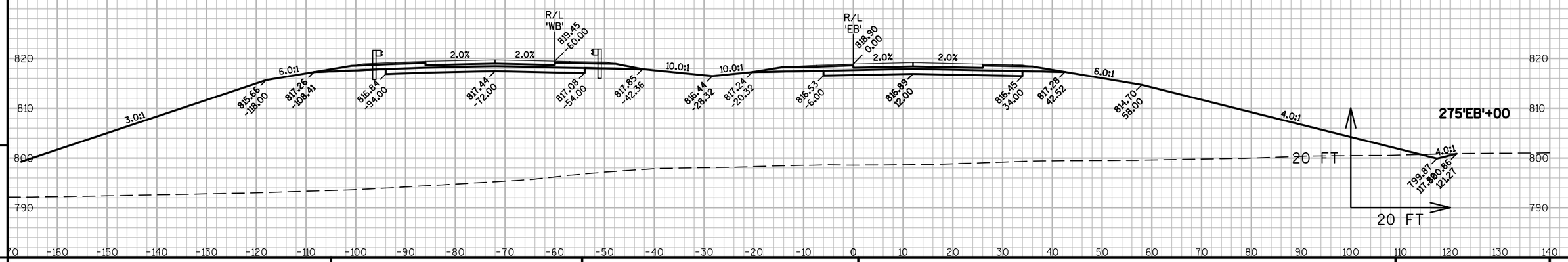
DATE 11/2/10 PLATE NO. R6-2.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 157	E

GRADING SHOWN IN CROSS SECTIONS
COMPLETED UNDER 1146-75-71.
SECTIONS SHOWN FOR PAVEMENT ONLY





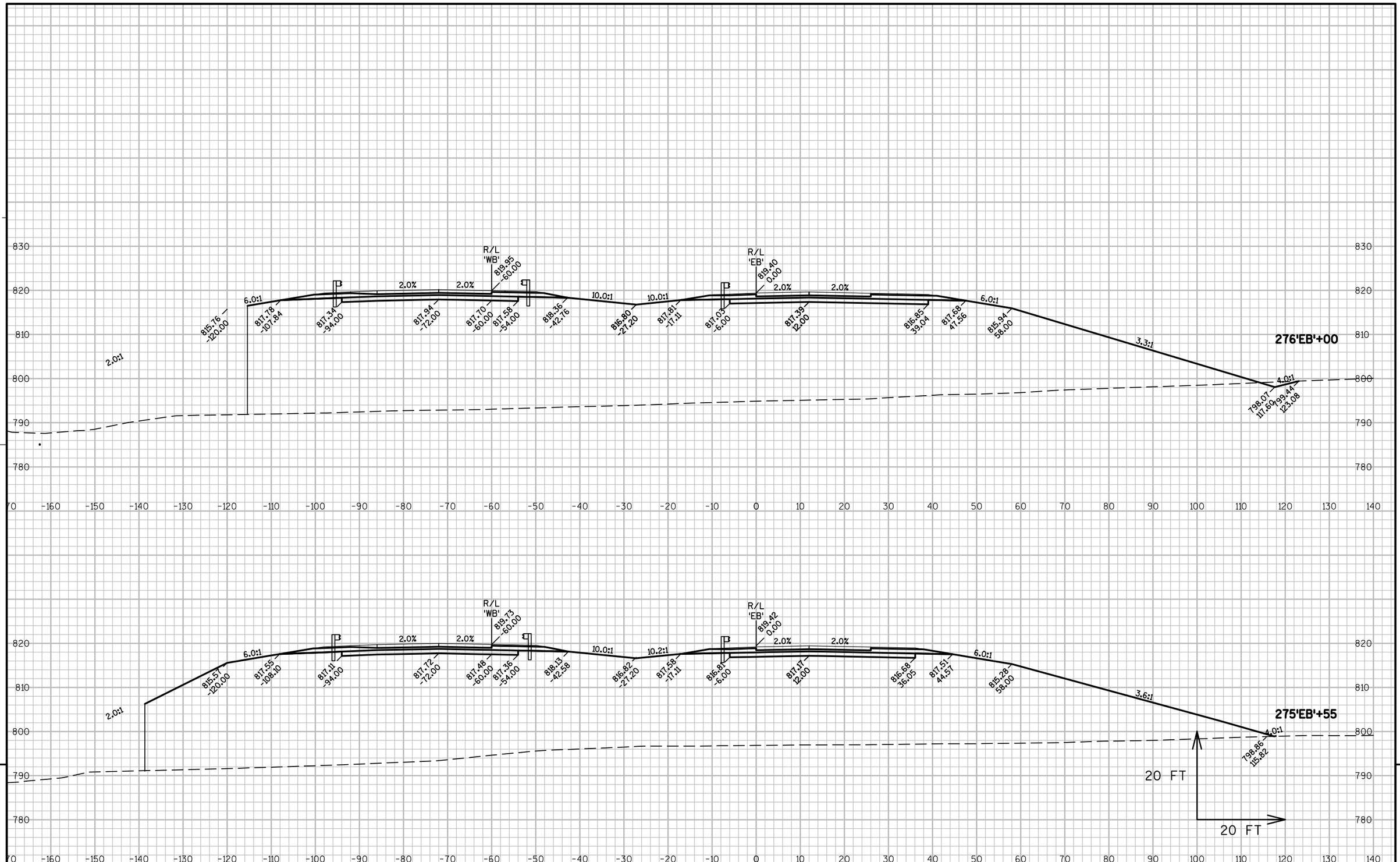


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 158	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_01_STH15.DWG
LAYOUT NAME - 090213-XS

PLOT DATE : 3/1/2017 8:18 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

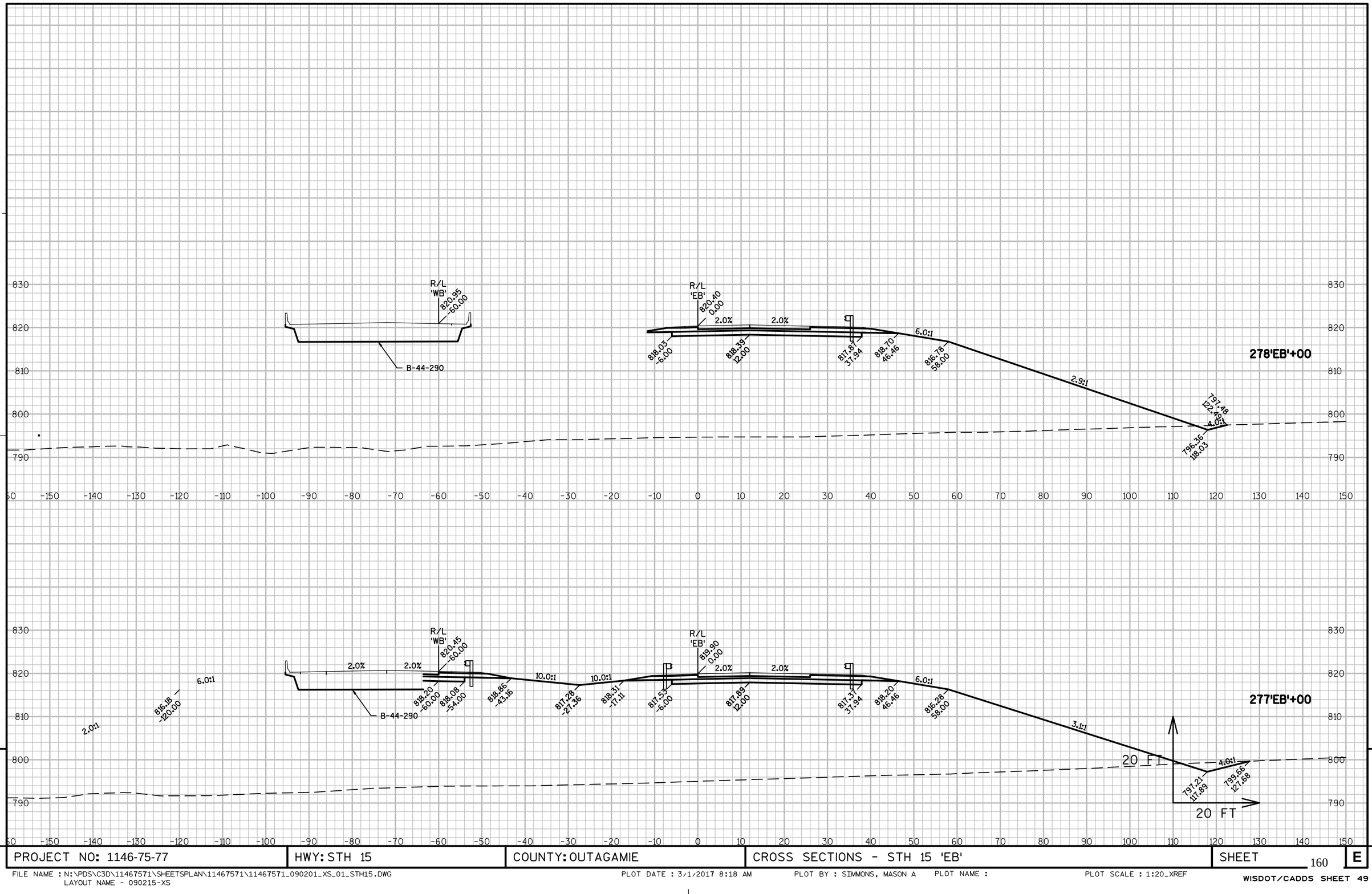


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 159 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_01_STH15.DWG
LAYOUT NAME - 090214-XS

PLOT DATE : 3/1/2017 8:18 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

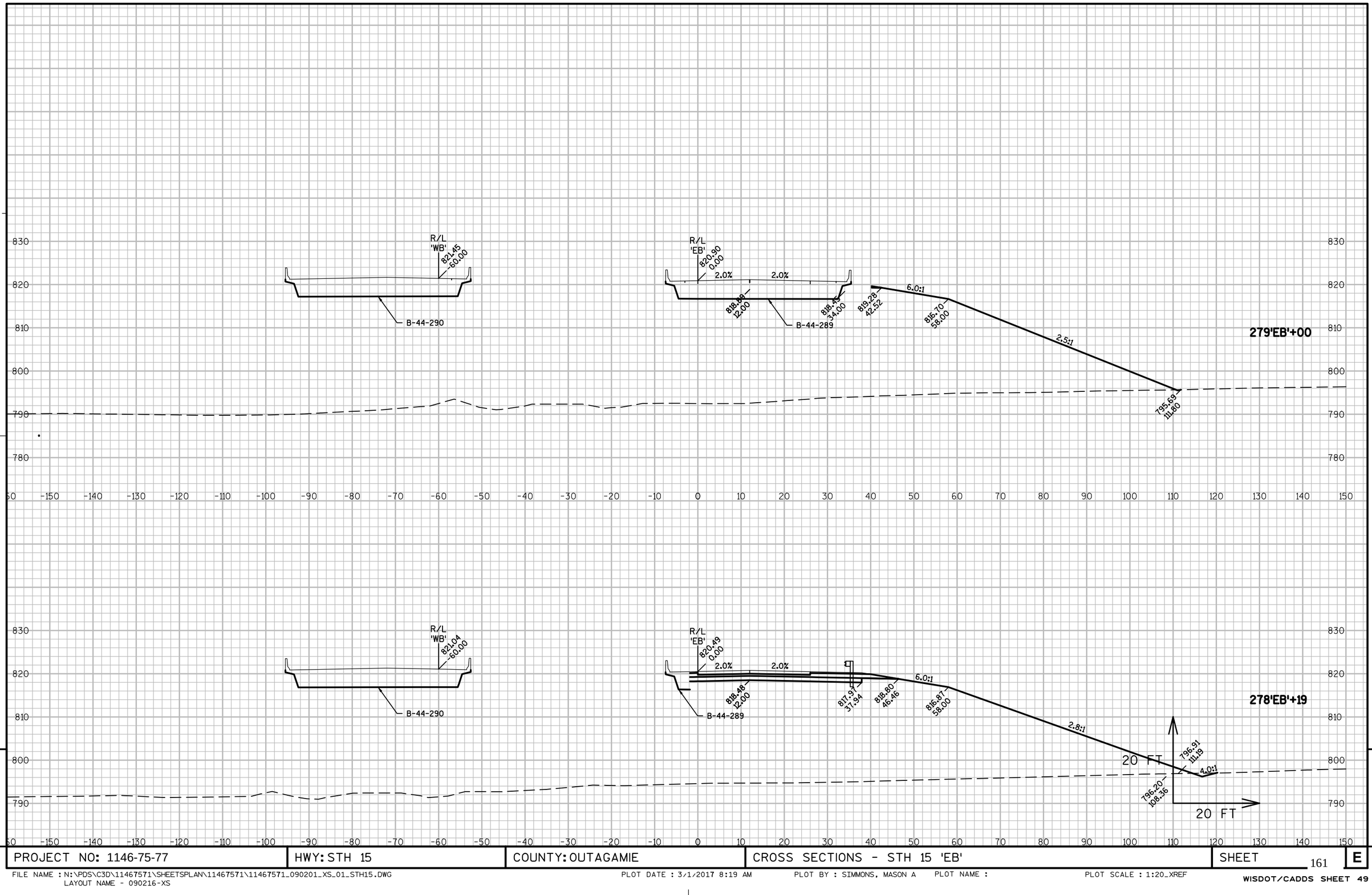


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 160	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_01_STH15.DWG
LAYOUT NAME - 090215-XS

PLOT DATE : 3/1/2017 8:18 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

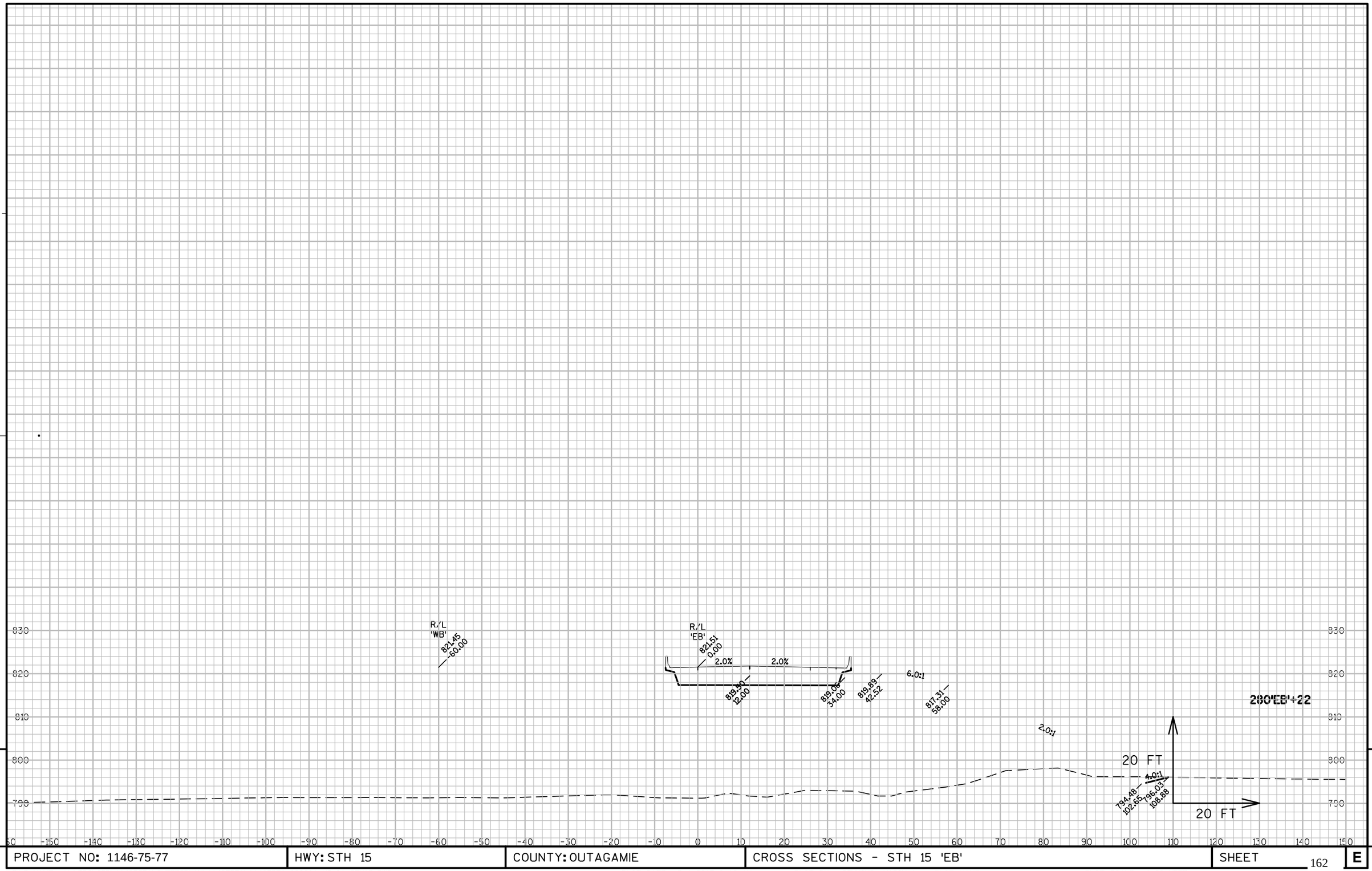


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 161 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_01_STH15.DWG
LAYOUT NAME - 090216-XS

PLOT DATE : 3/1/2017 8:19 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

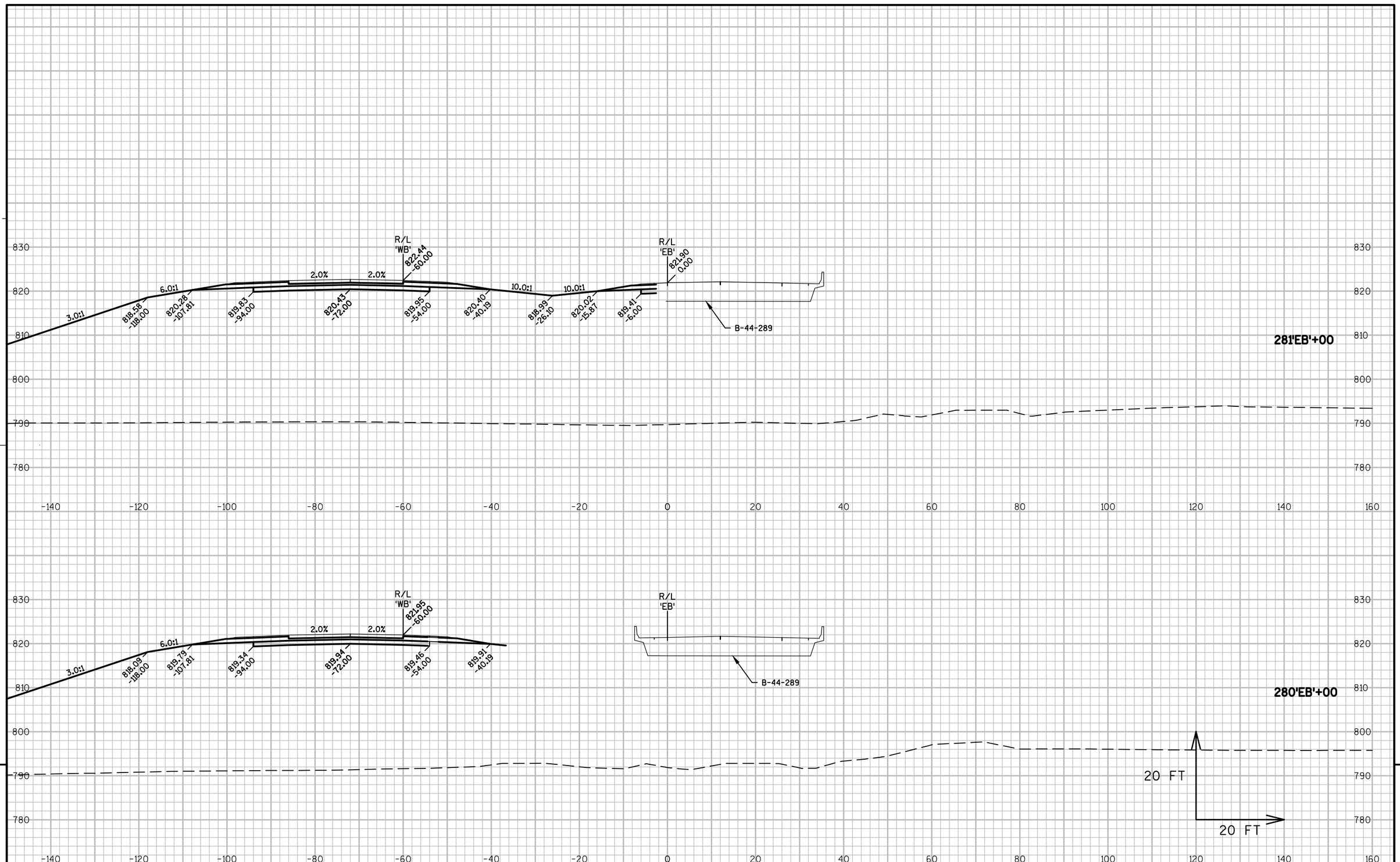


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 162	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_01_STH15.DWG
LAYOUT NAME - 090217-XS

PLOT DATE : 3/1/2017 8:19 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



9

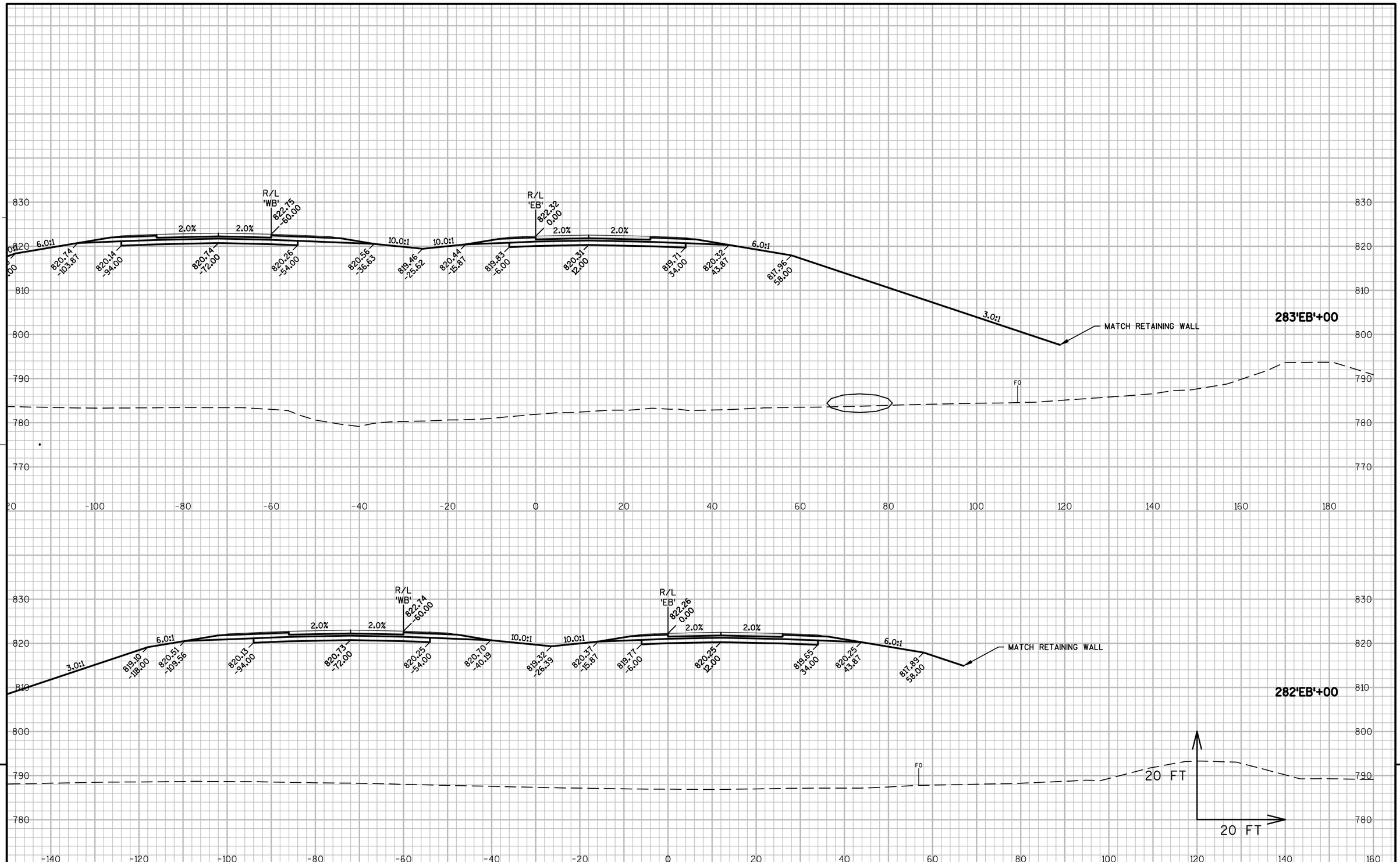
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 163	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090217_XS

PLOT DATE : 3/6/2017 12:25 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

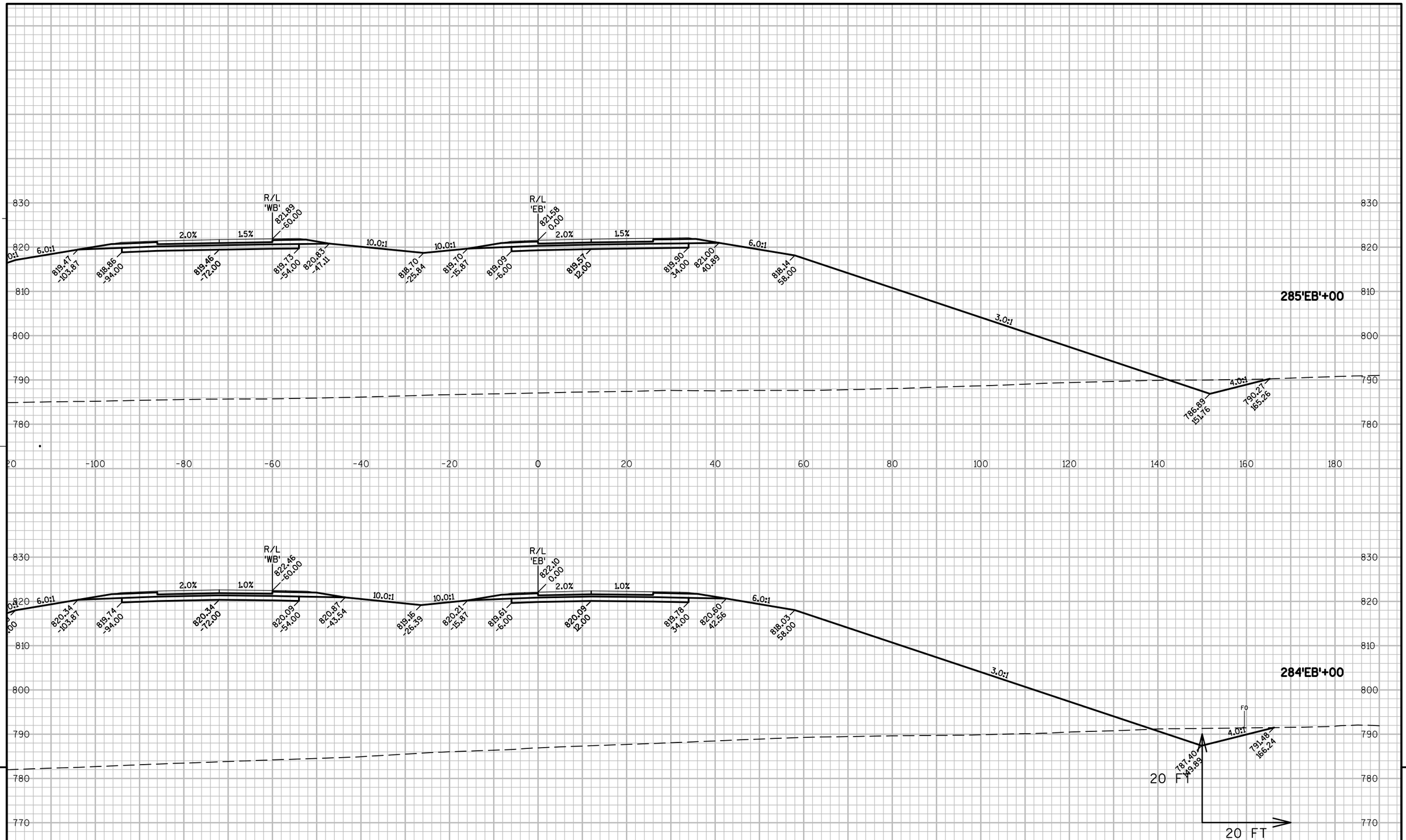


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 164 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090218_XS

PLOT DATE : 3/6/2017 12:25 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



9

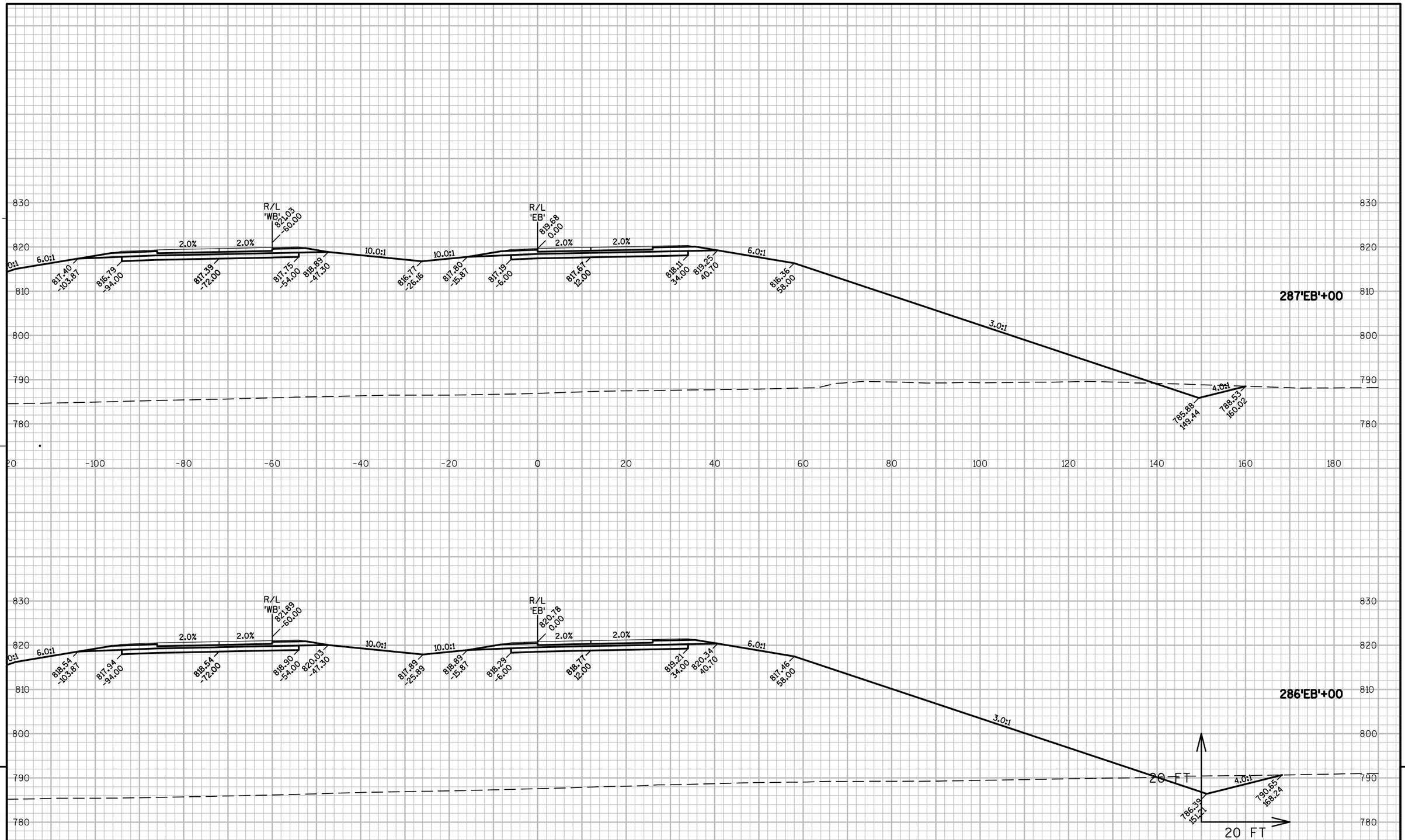
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 165	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090219_XS

PLOT DATE : 3/6/2017 12:25 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



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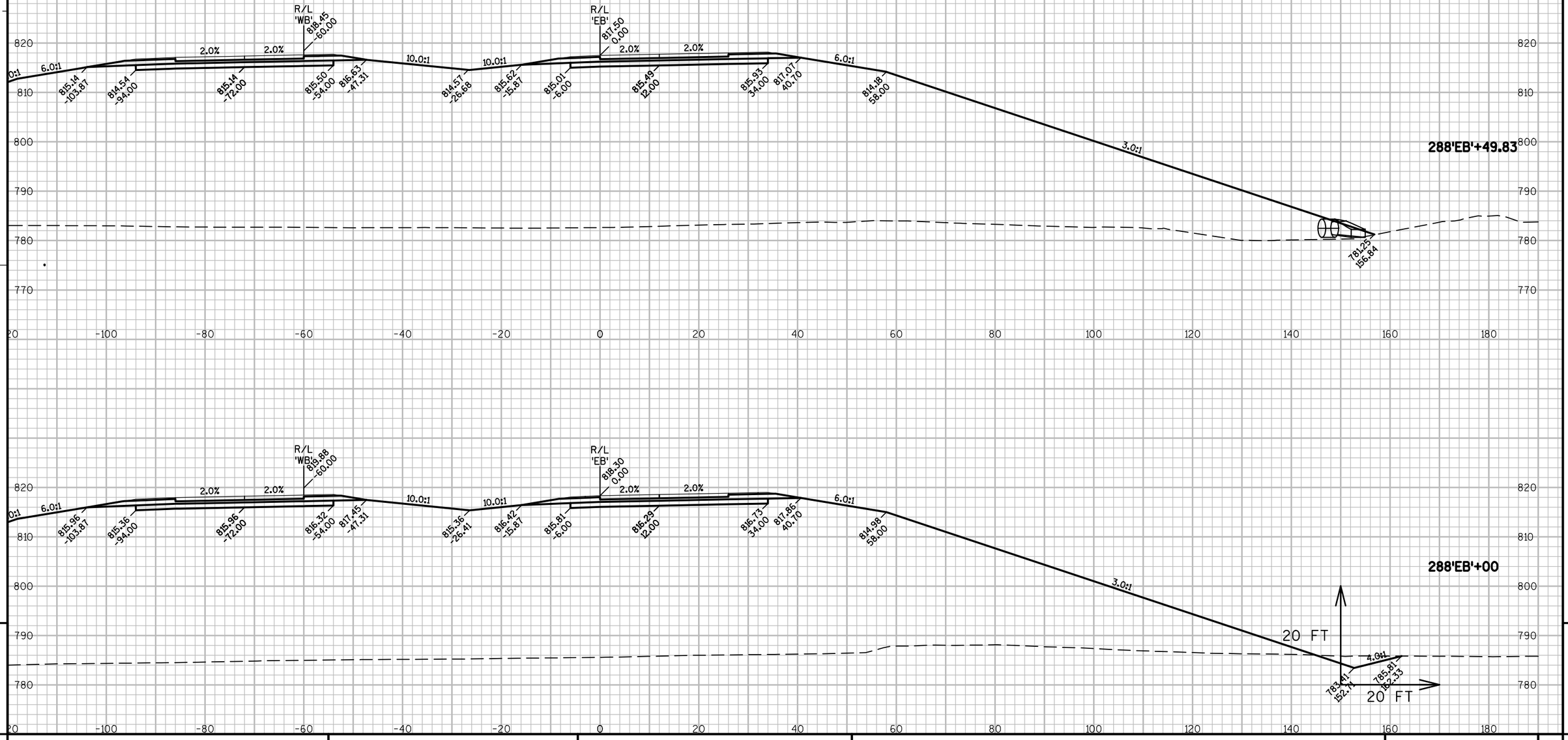
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 166 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090220_XS

PLOT DATE : 3/6/2017 12:25 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

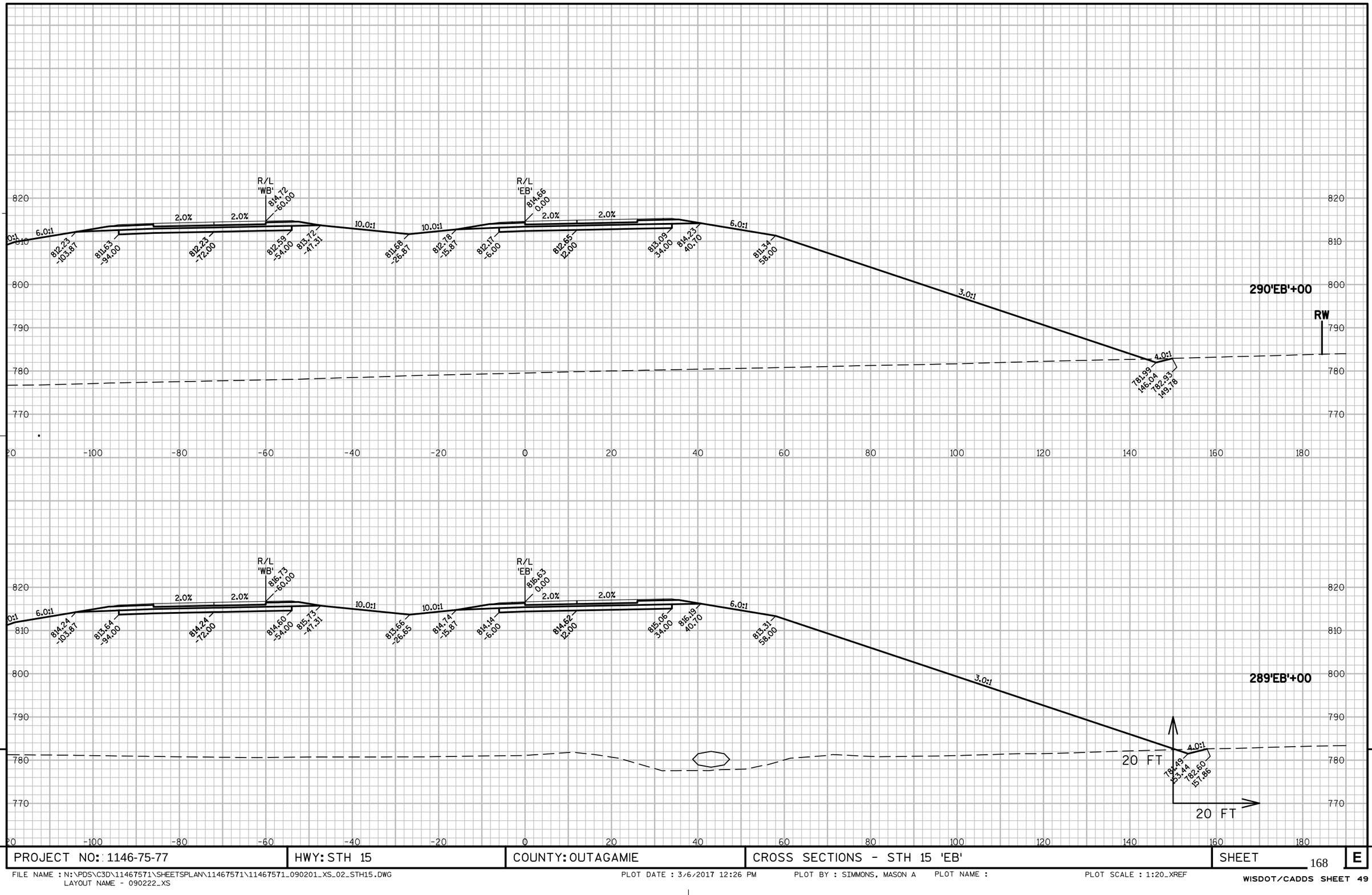


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 167	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090221_XS

PLOT DATE : 3/6/2017 12:25 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



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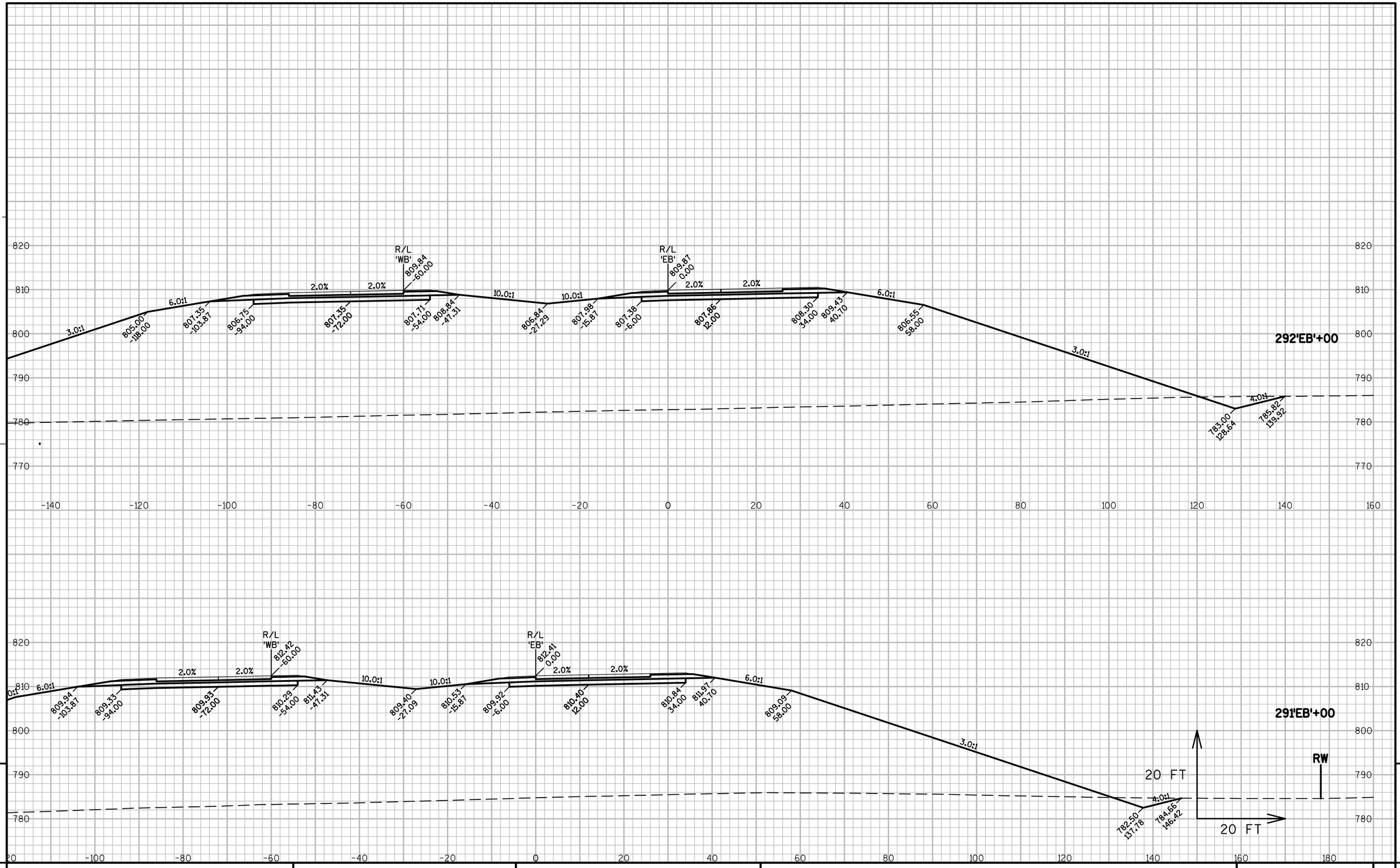
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 168	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090222_XS

PLOT DATE : 3/6/2017 12:26 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

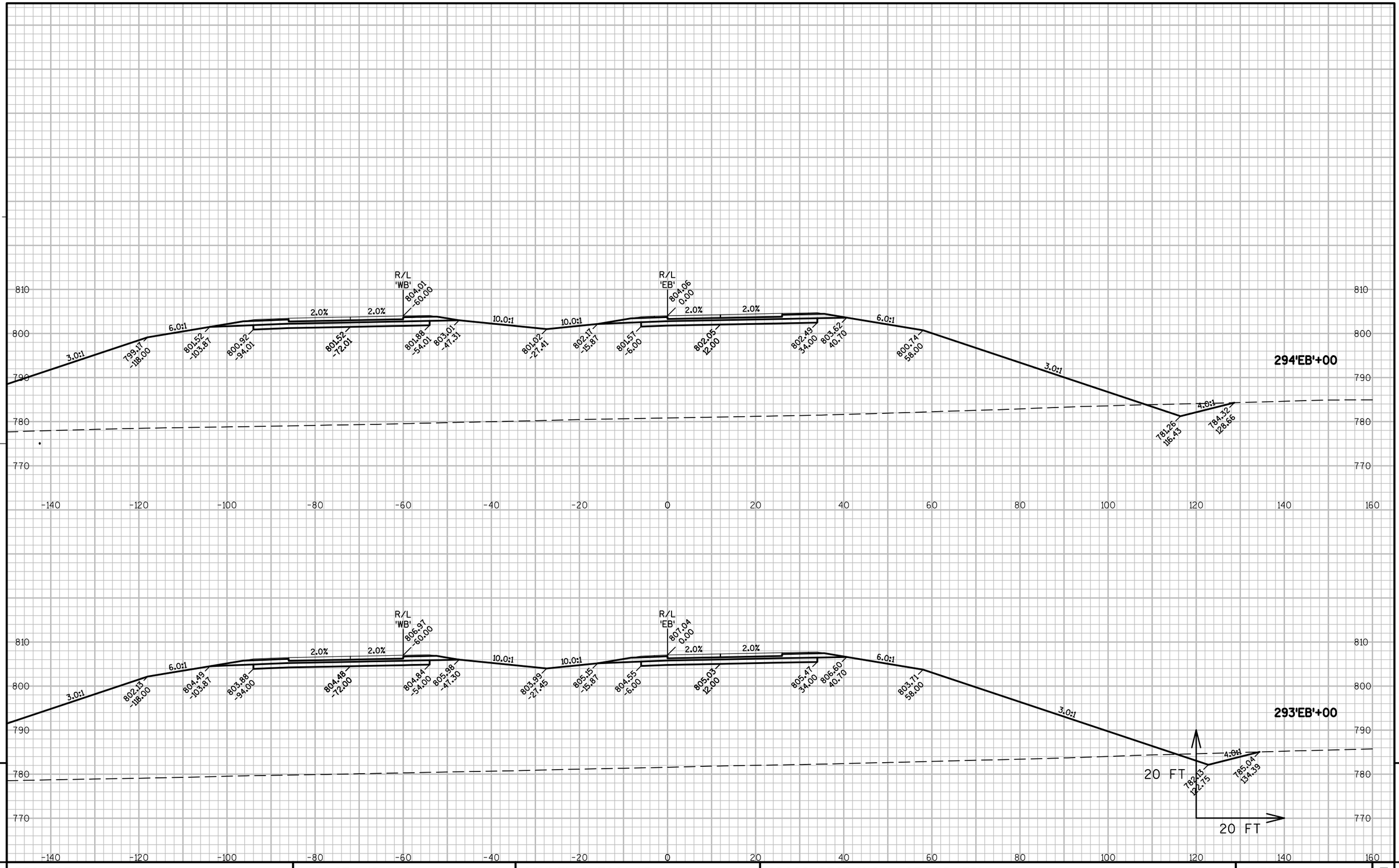


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 169	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090223_XS

PLOT DATE : 3/6/2017 12:26 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



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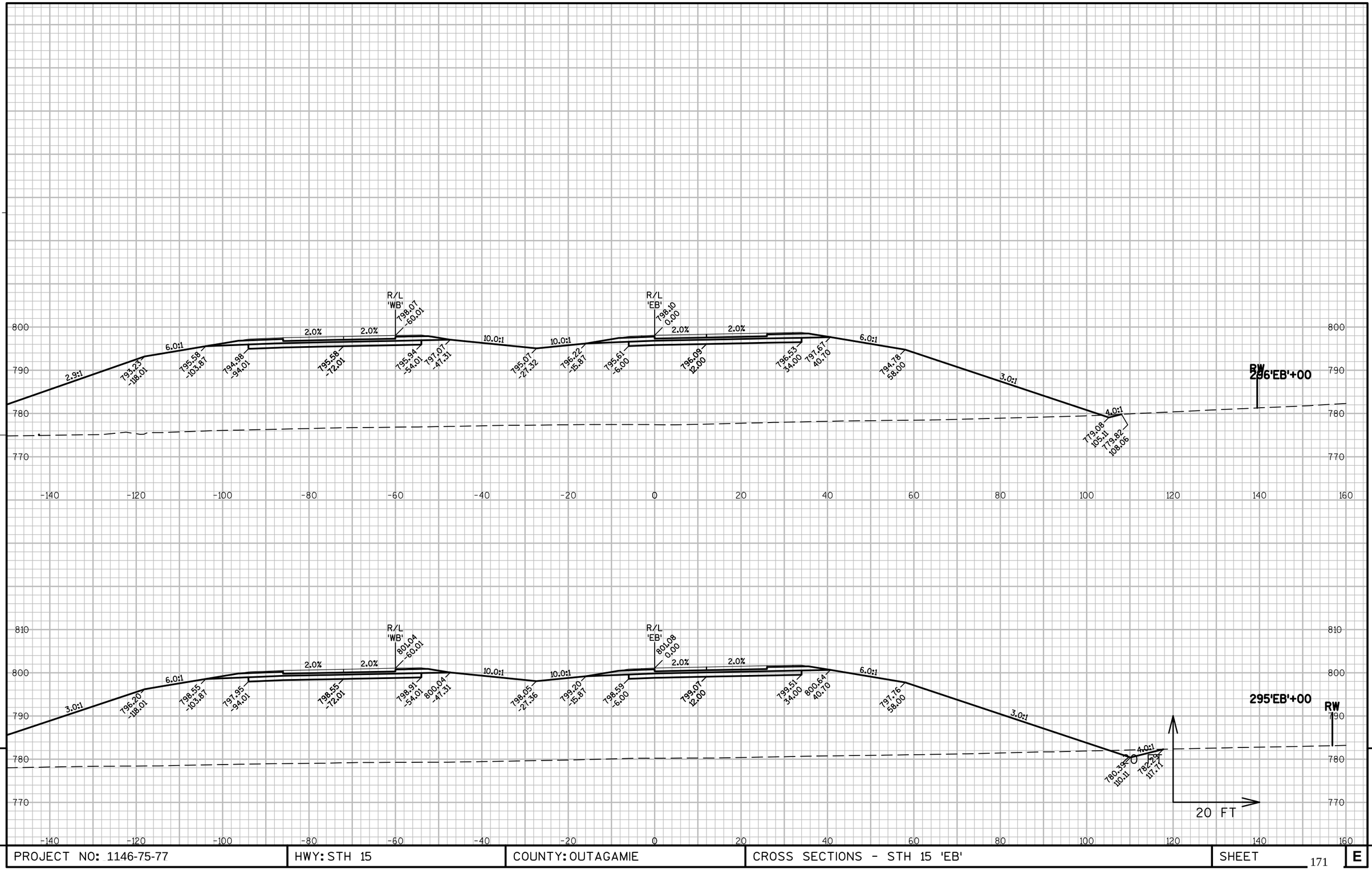
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 170	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090224_XS

PLOT DATE : 3/6/2017 12:26 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



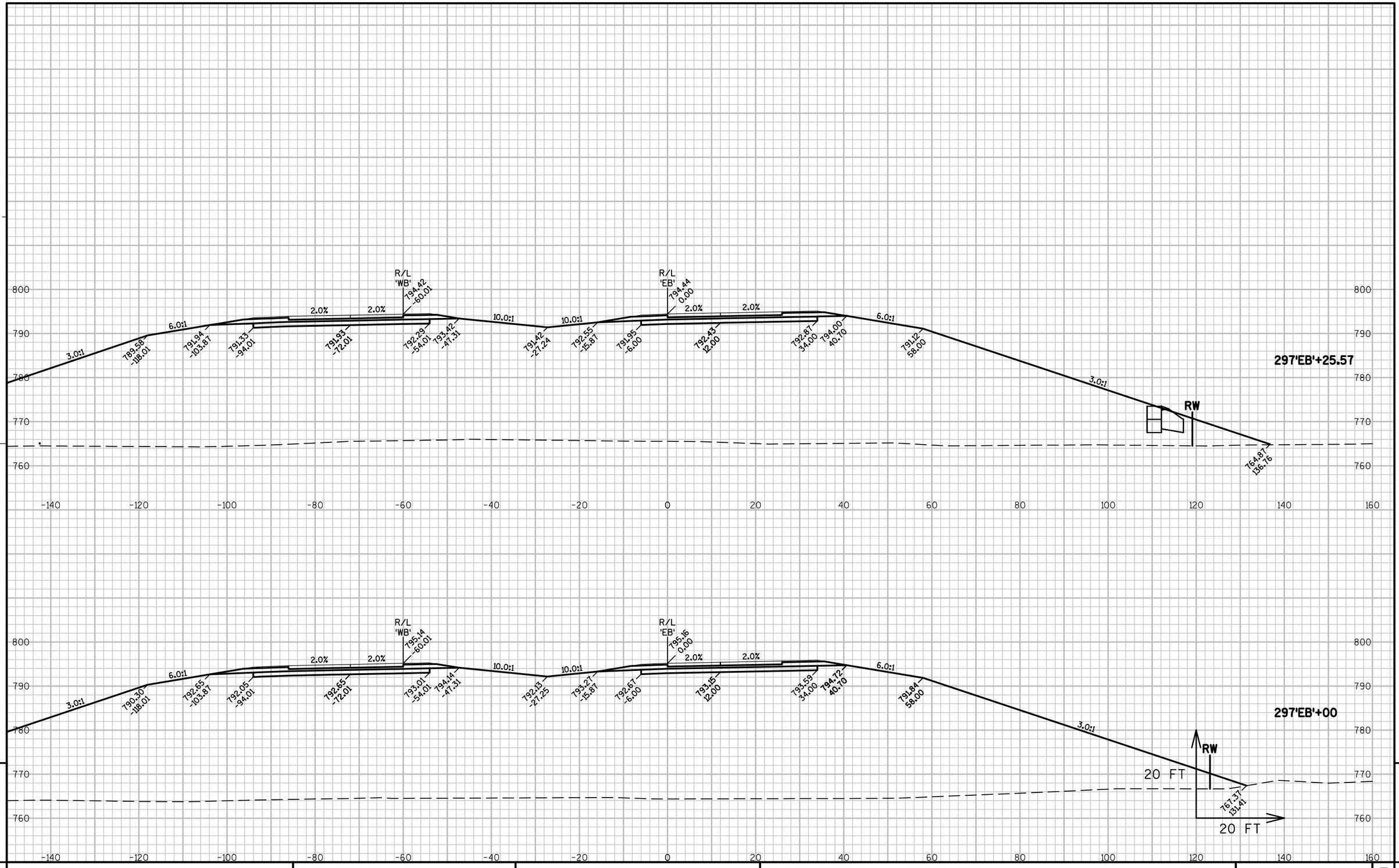
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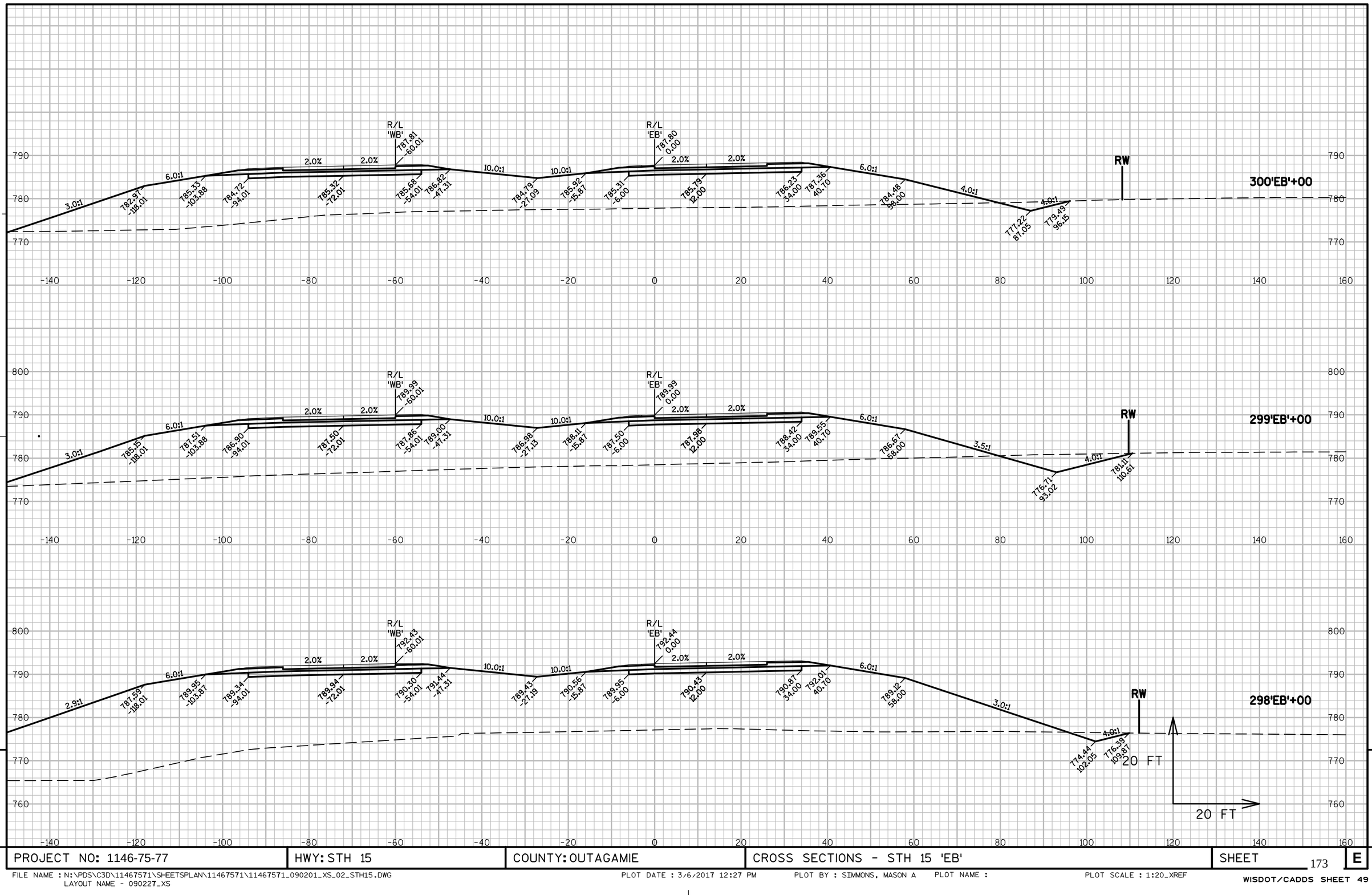
PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 171	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090225_XS

PLOT DATE : 3/6/2017 12:26 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 172	E



9

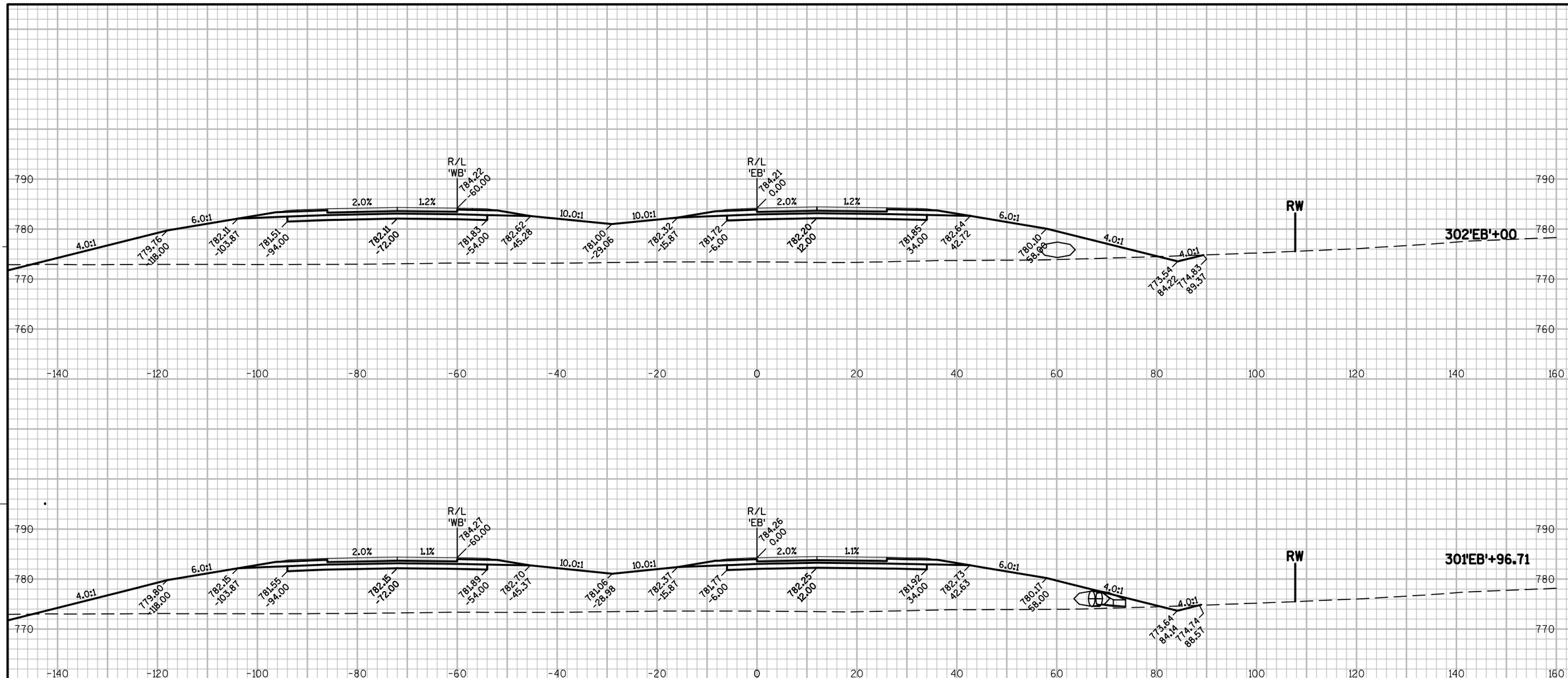
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 173	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090227_XS

PLOT DATE : 3/6/2017 12:27 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



9

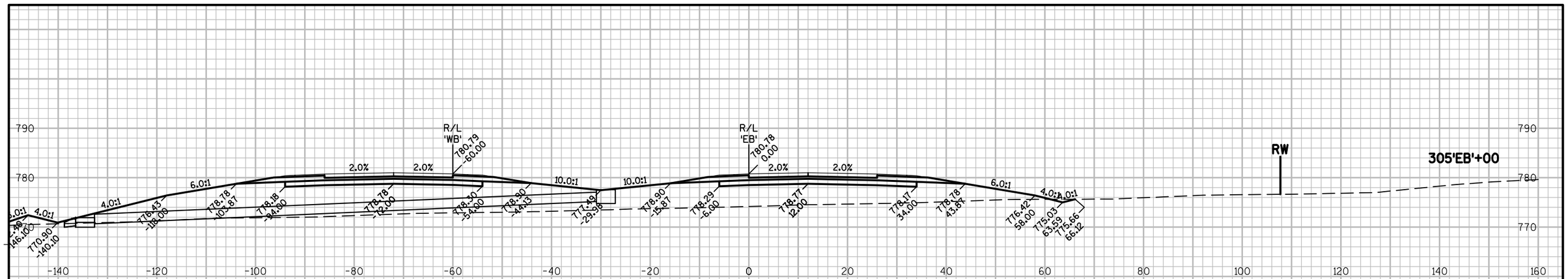
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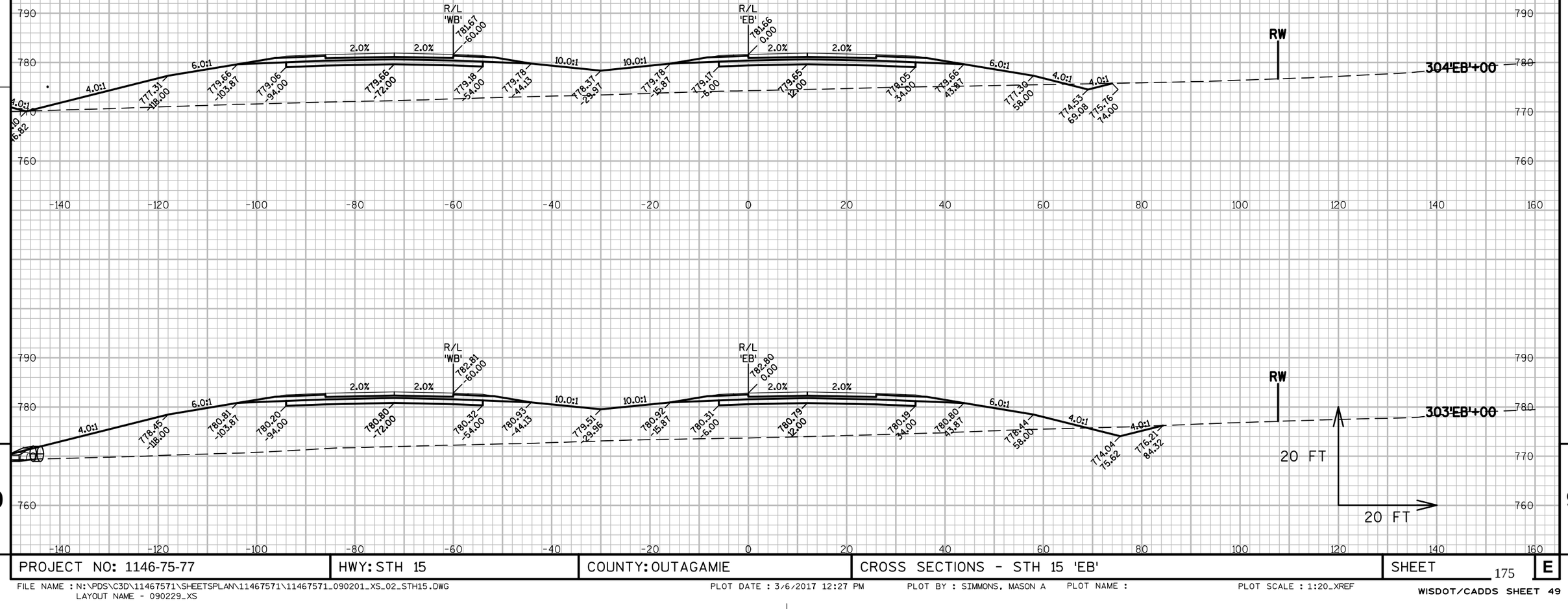
PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 174	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090228_XS

PLOT DATE : 3/6/2017 12:27 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49





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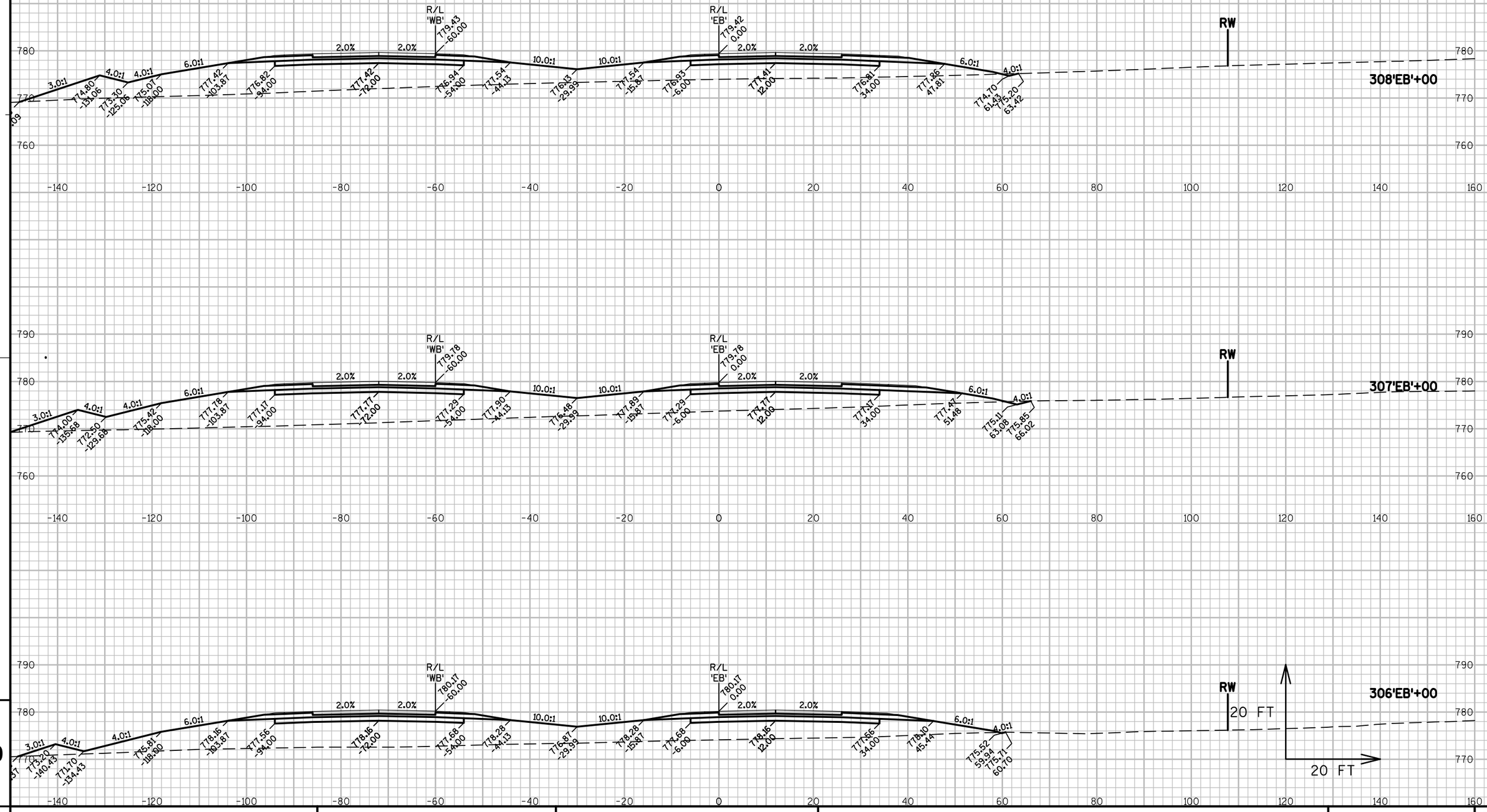
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 175	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090229_XS

PLOT DATE : 3/6/2017 12:27 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

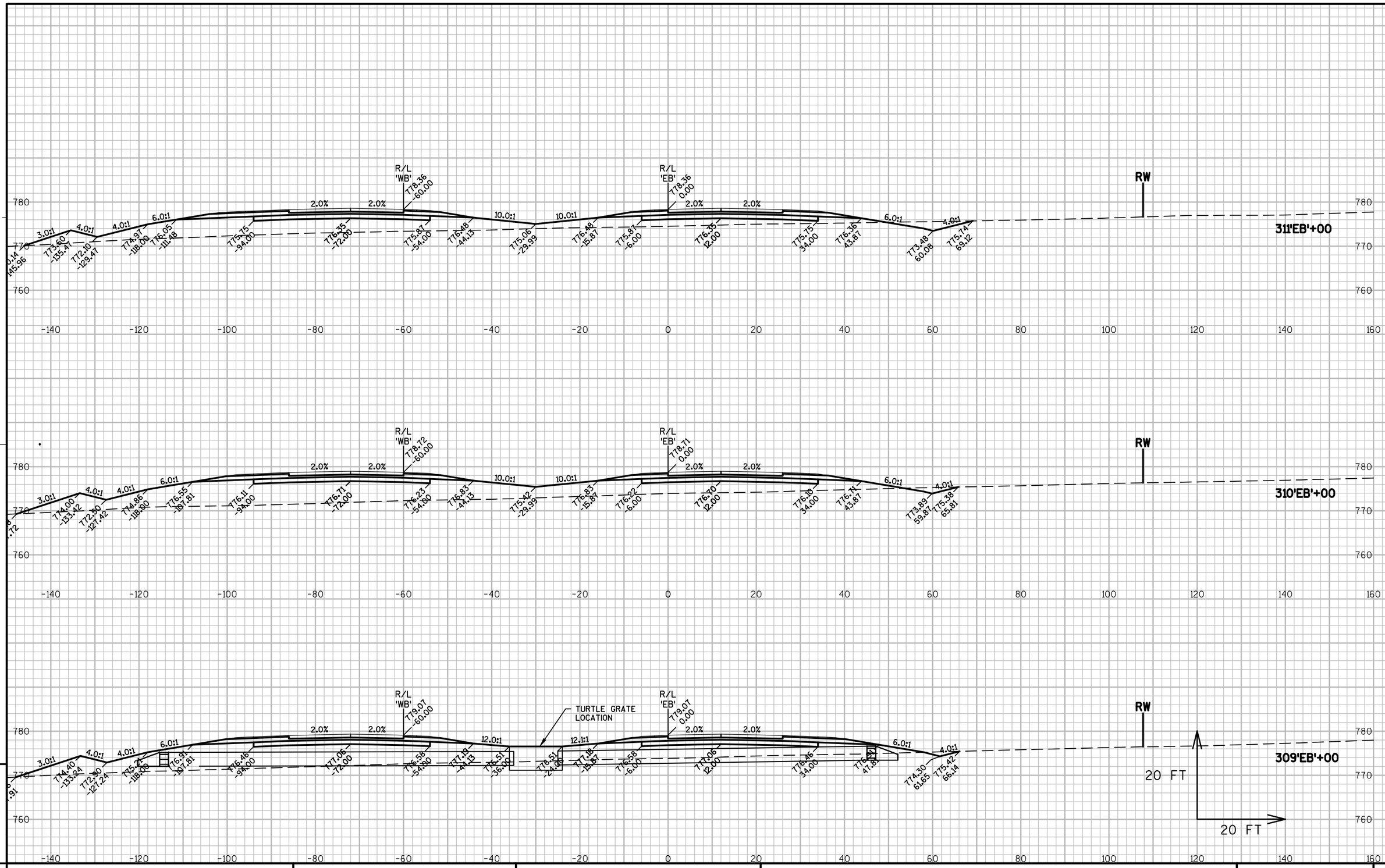


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 176	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090230_XS

PLOT DATE : 3/6/2017 12:27 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

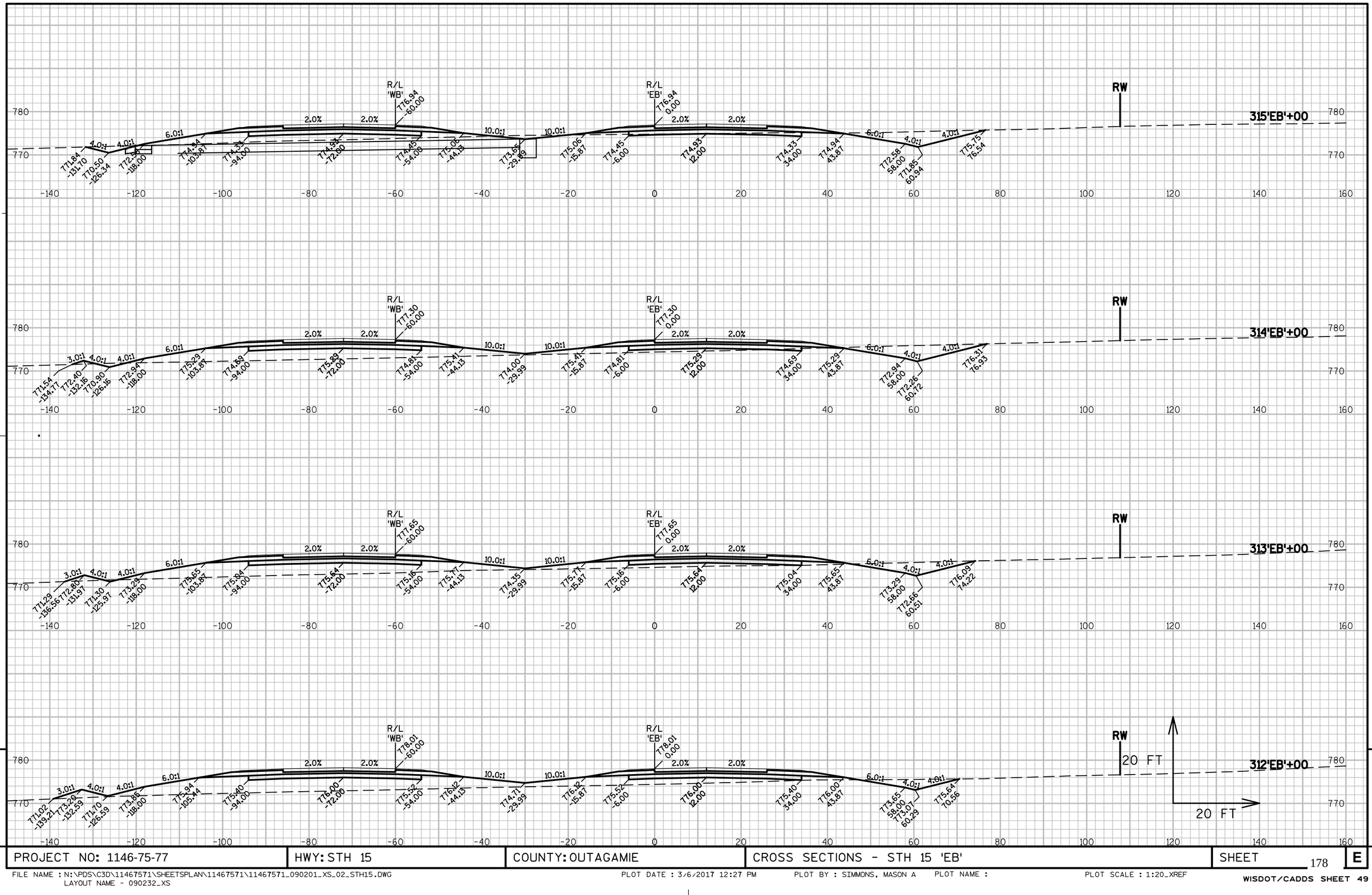


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 177	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090231_XS

PLOT DATE : 3/6/2017 12:27 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



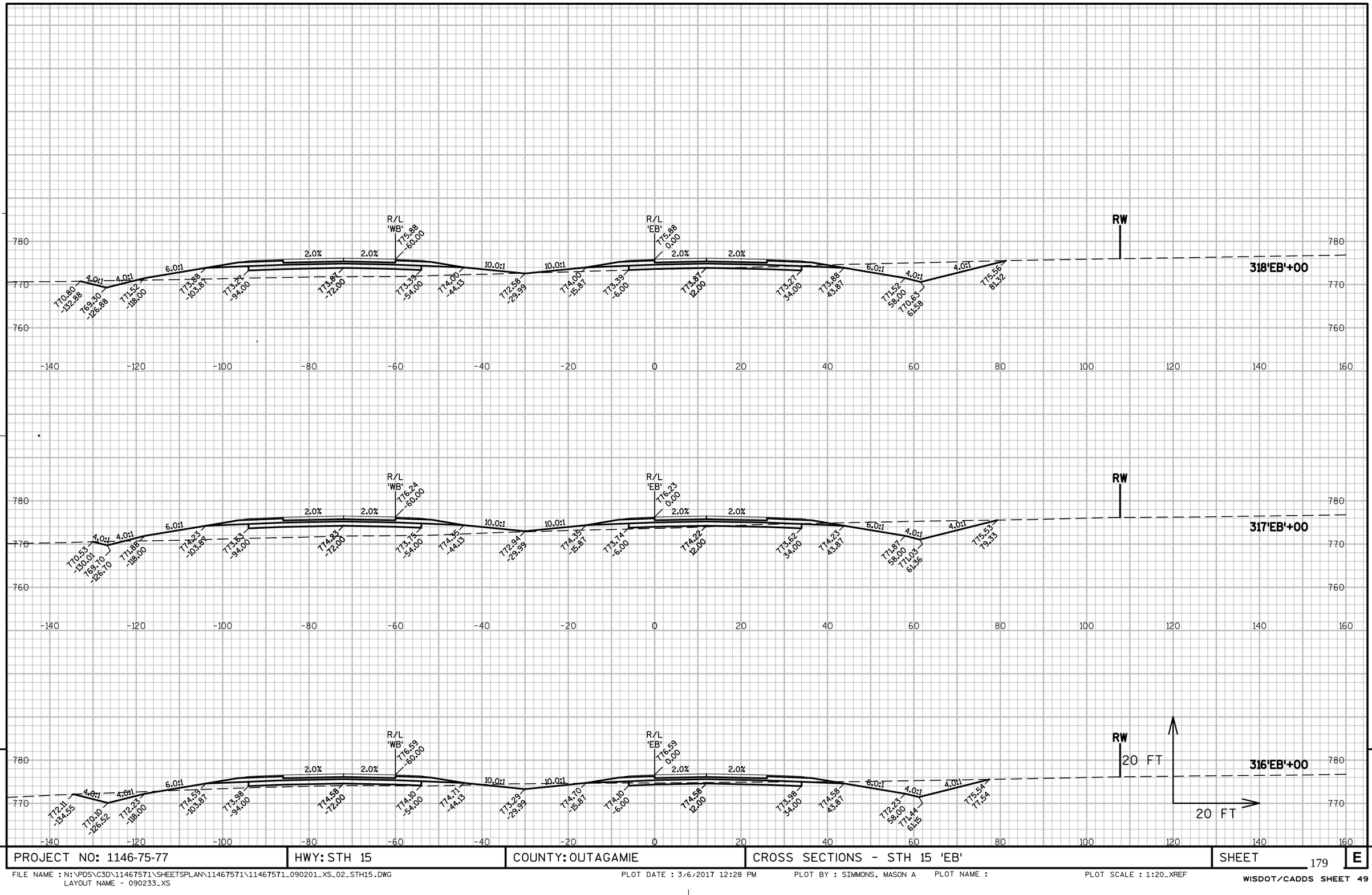
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 178 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090232_XS

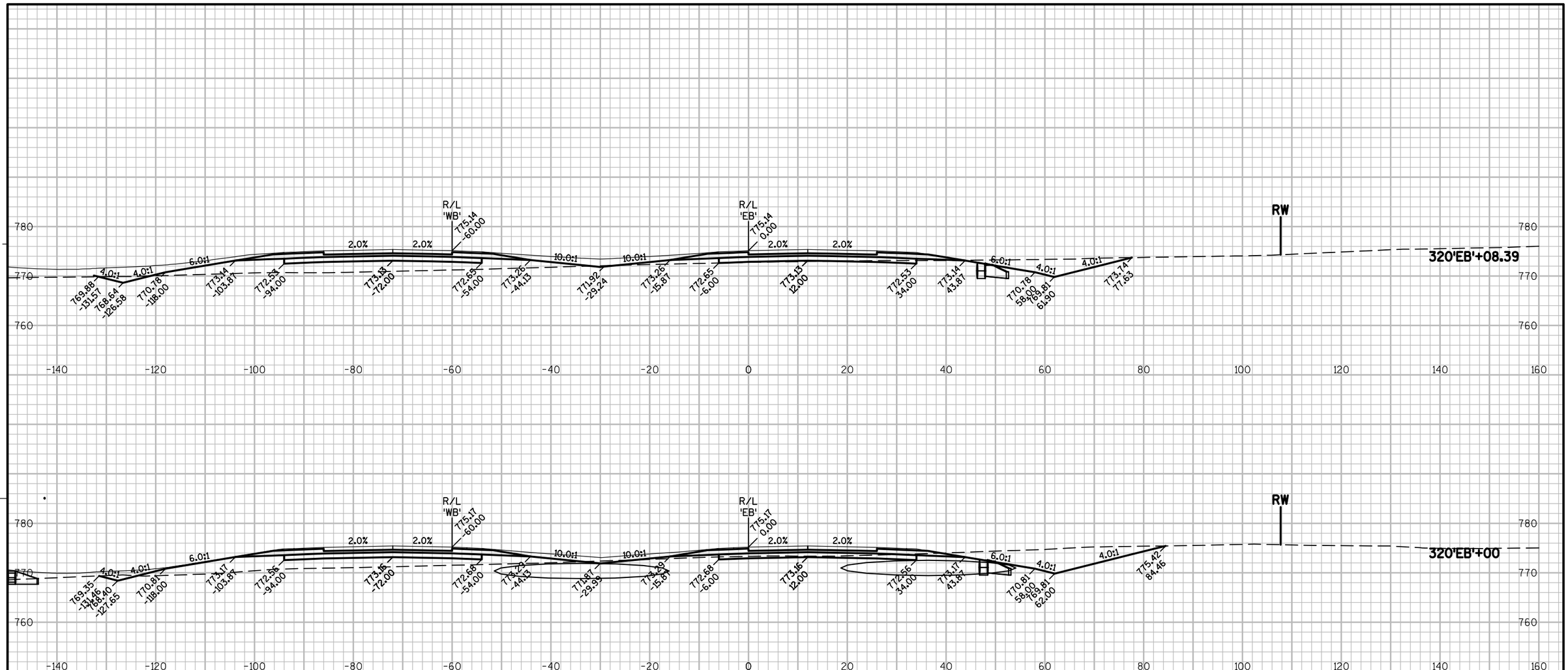
PLOT DATE : 3/6/2017 12:27 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

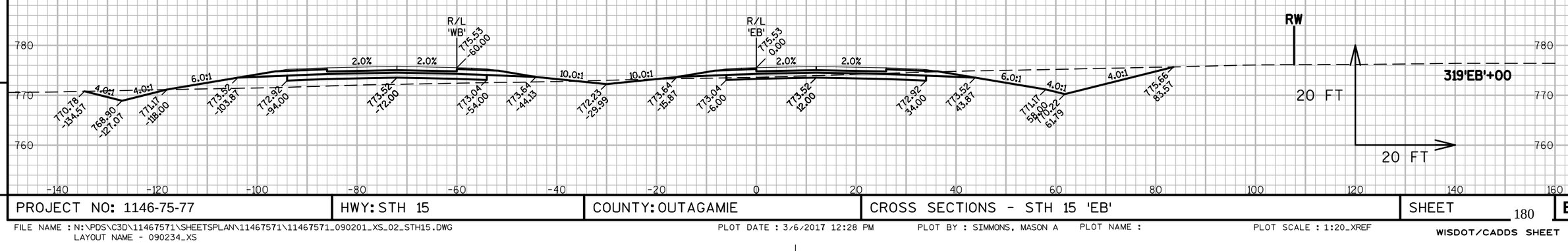
WISDOT/CADDS SHEET 49



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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 179 E





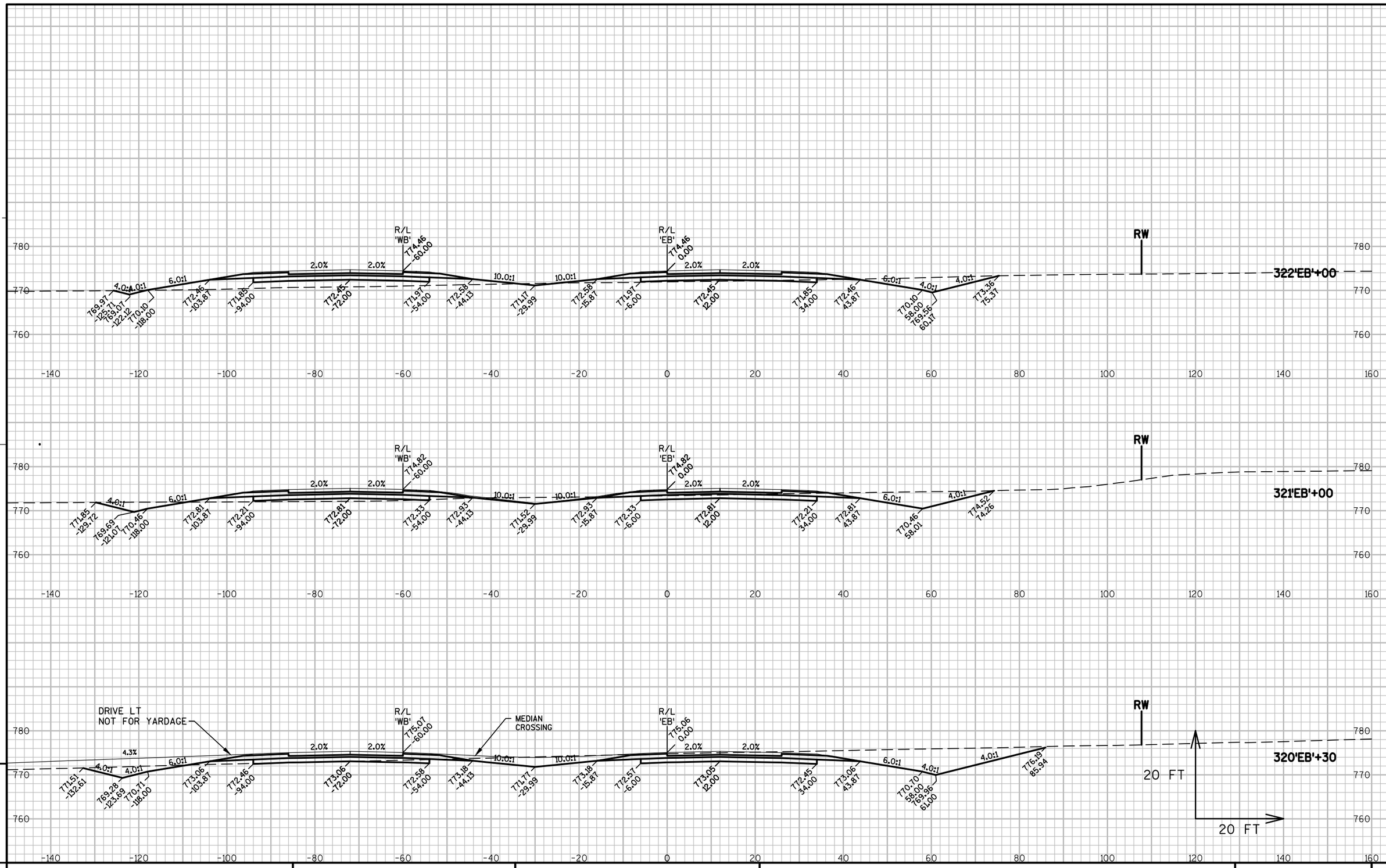
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 180	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090234_XS

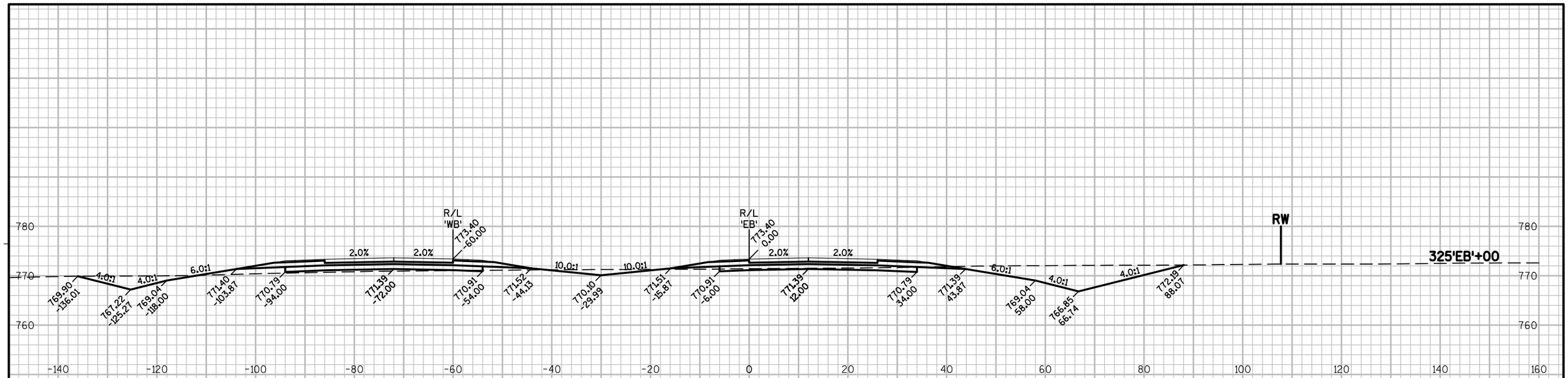
PLOT DATE : 3/6/2017 12:28 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

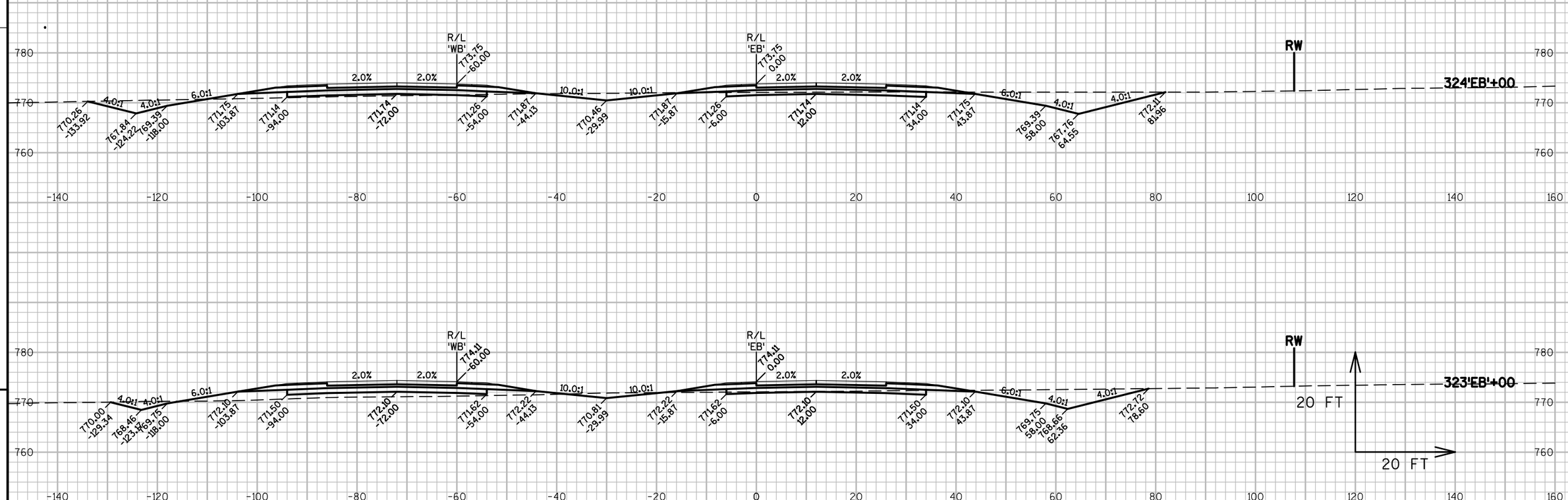


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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 181	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090235_XS
PLOT DATE : 3/6/2017 12:28 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49





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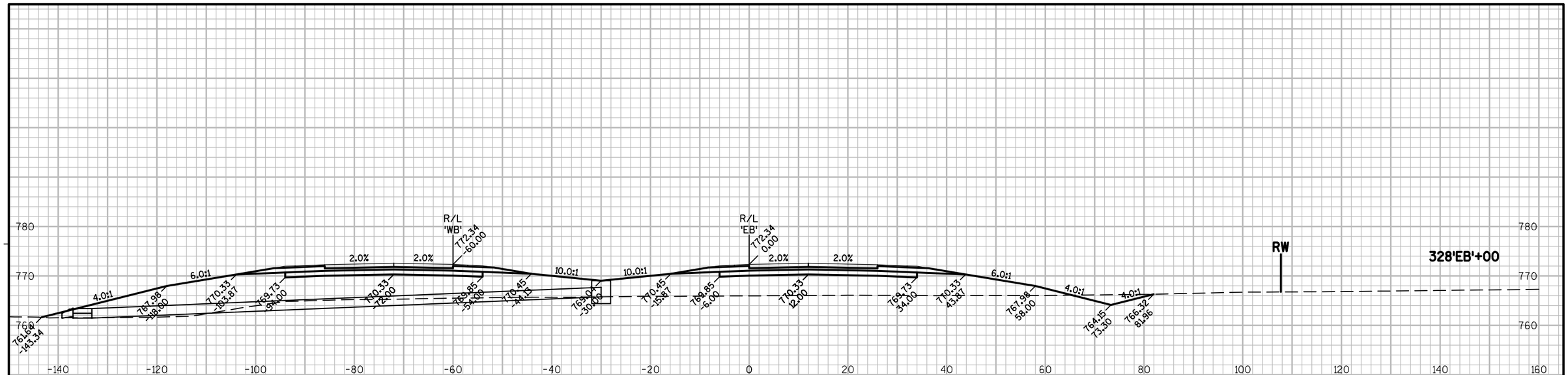
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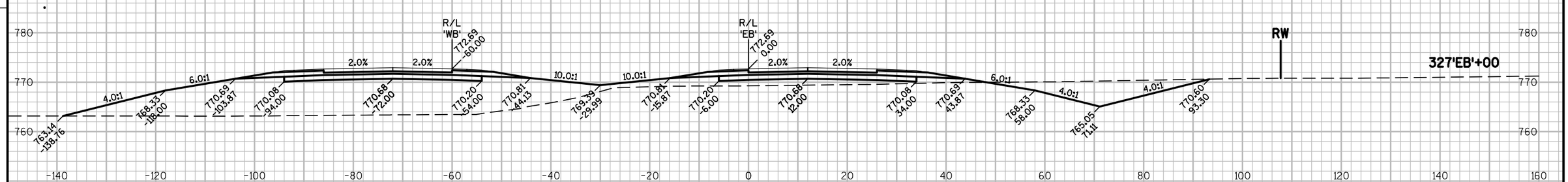
PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 182	E

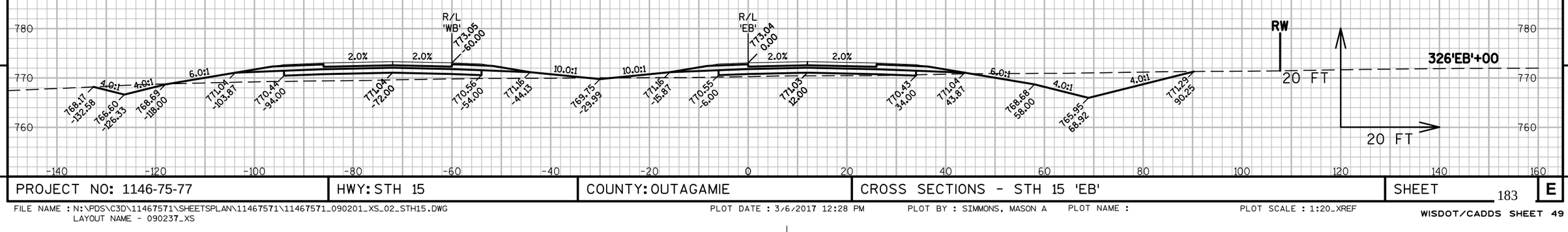
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090236_XS

PLOT DATE : 3/6/2017 12:28 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

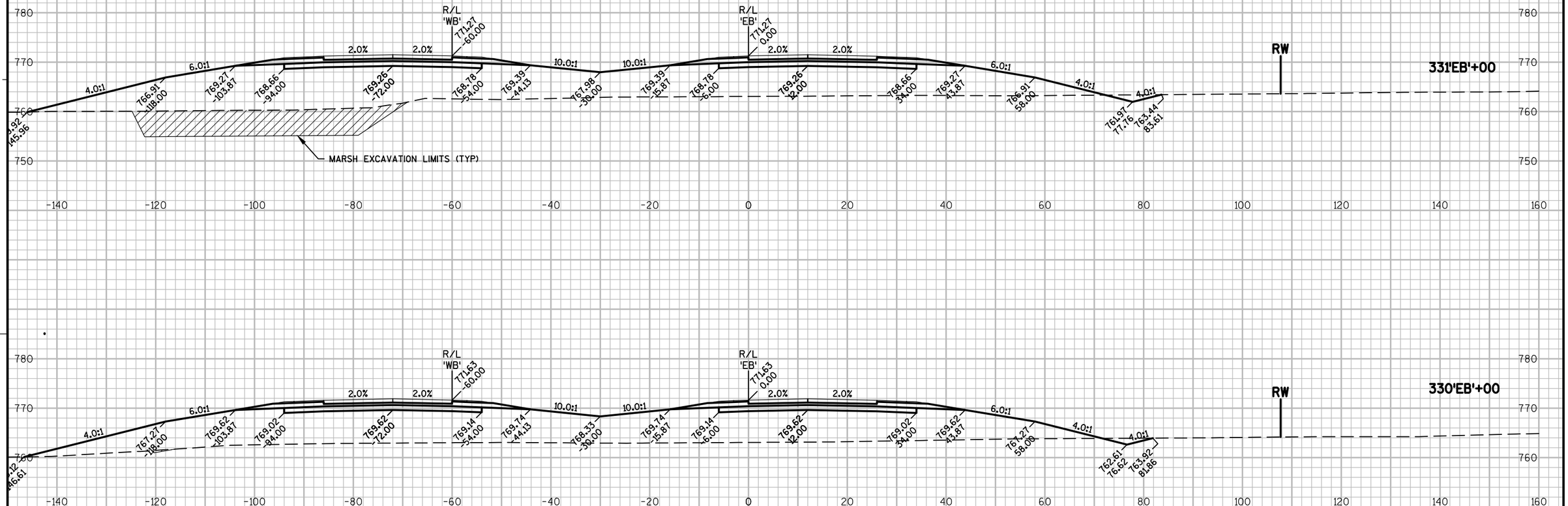


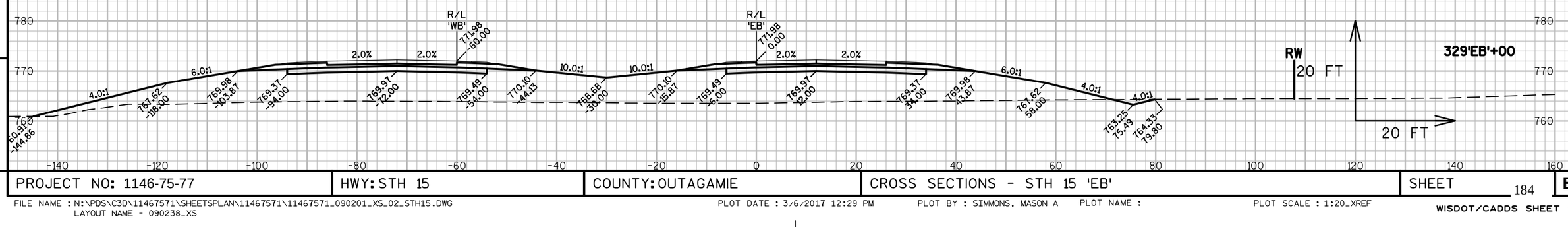




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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 183	E





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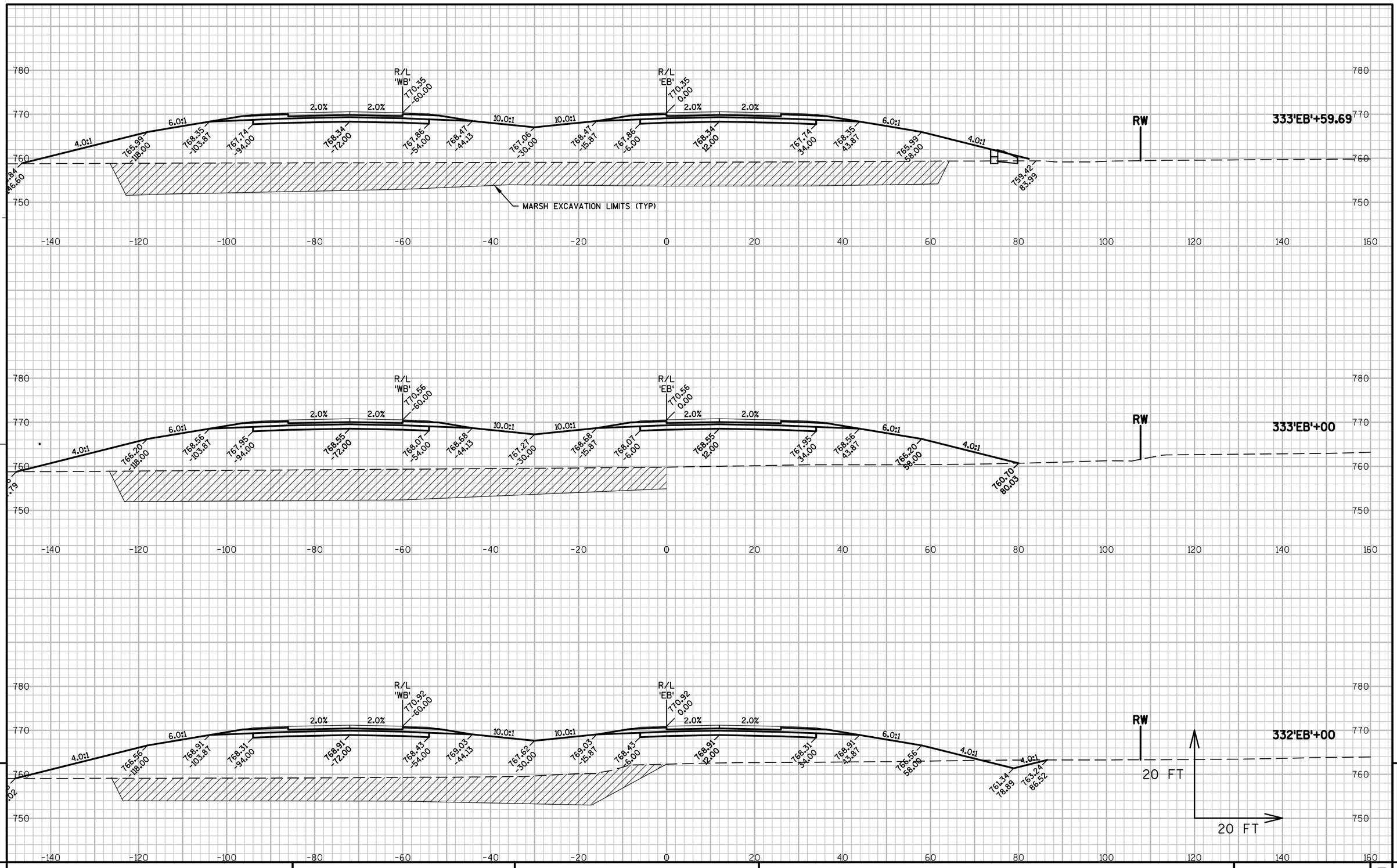
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 184	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090238_XS

PLOT DATE : 3/6/2017 12:29 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 185	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090239_XS

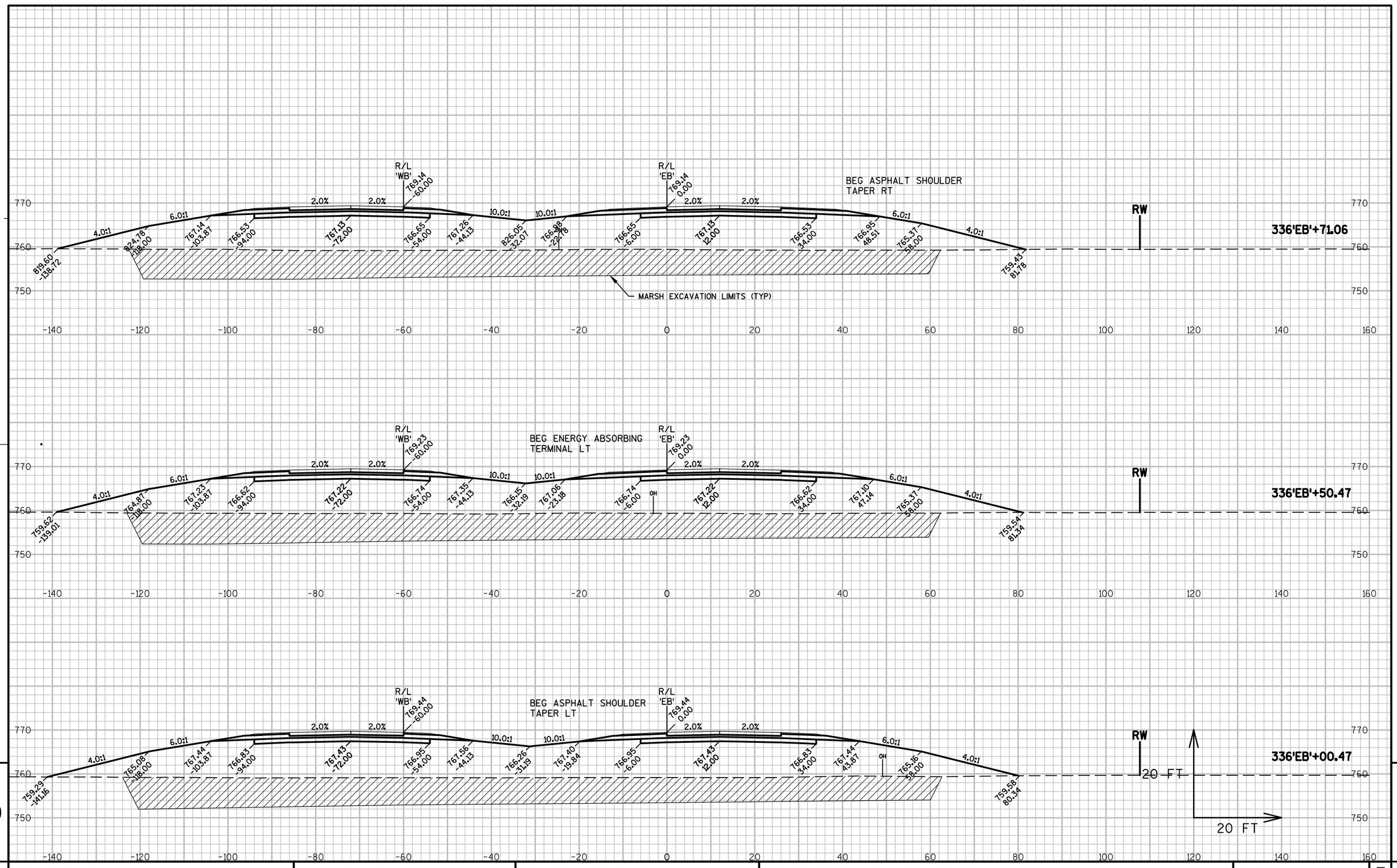
PLOT DATE : 3/6/2017 12:29 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

9

9

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 186	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090240_XS
PLOT DATE : 3/6/2017 12:29 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49

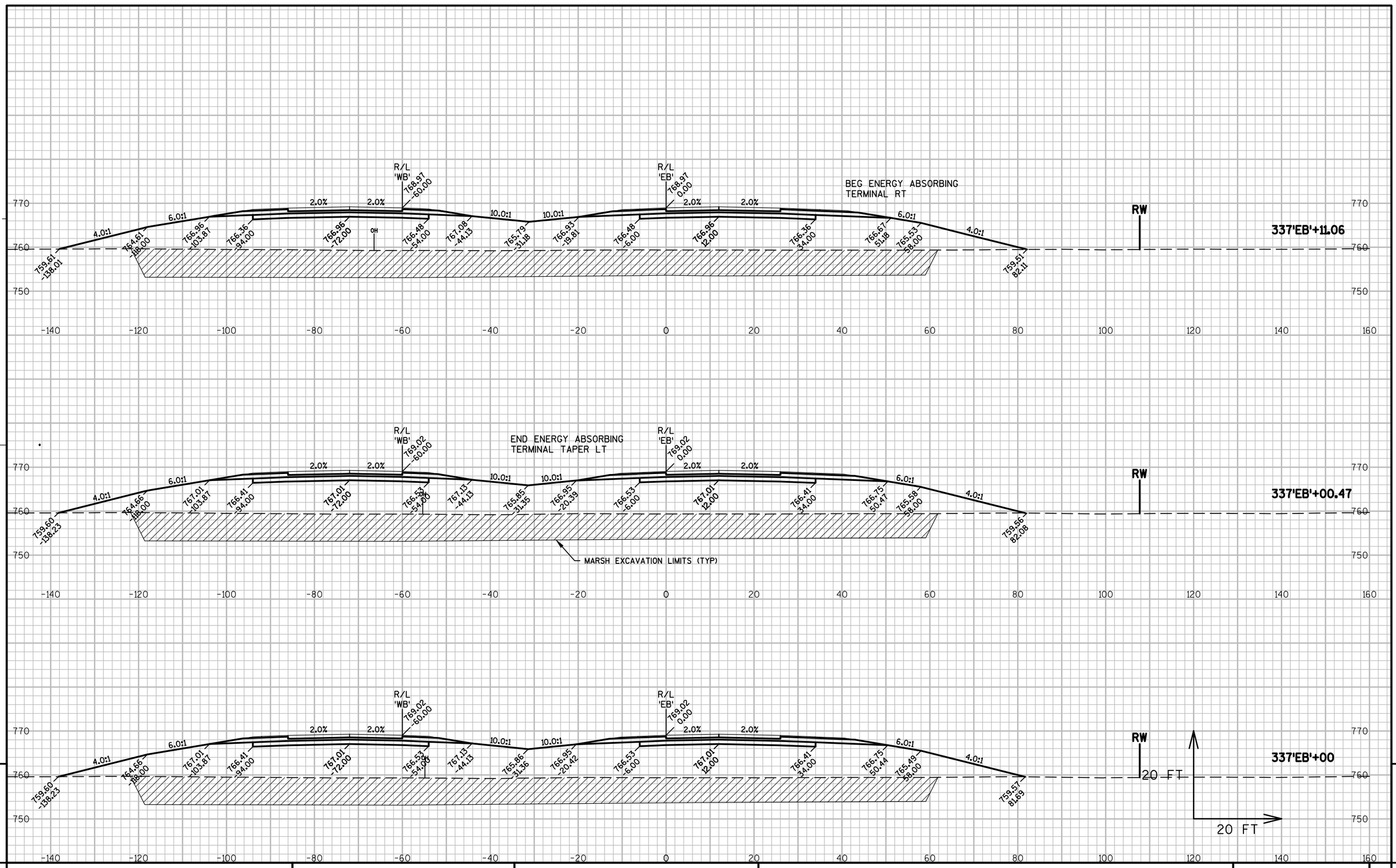


9

9

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 187	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090241_XS
PLOT DATE : 3/6/2017 12:29 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49



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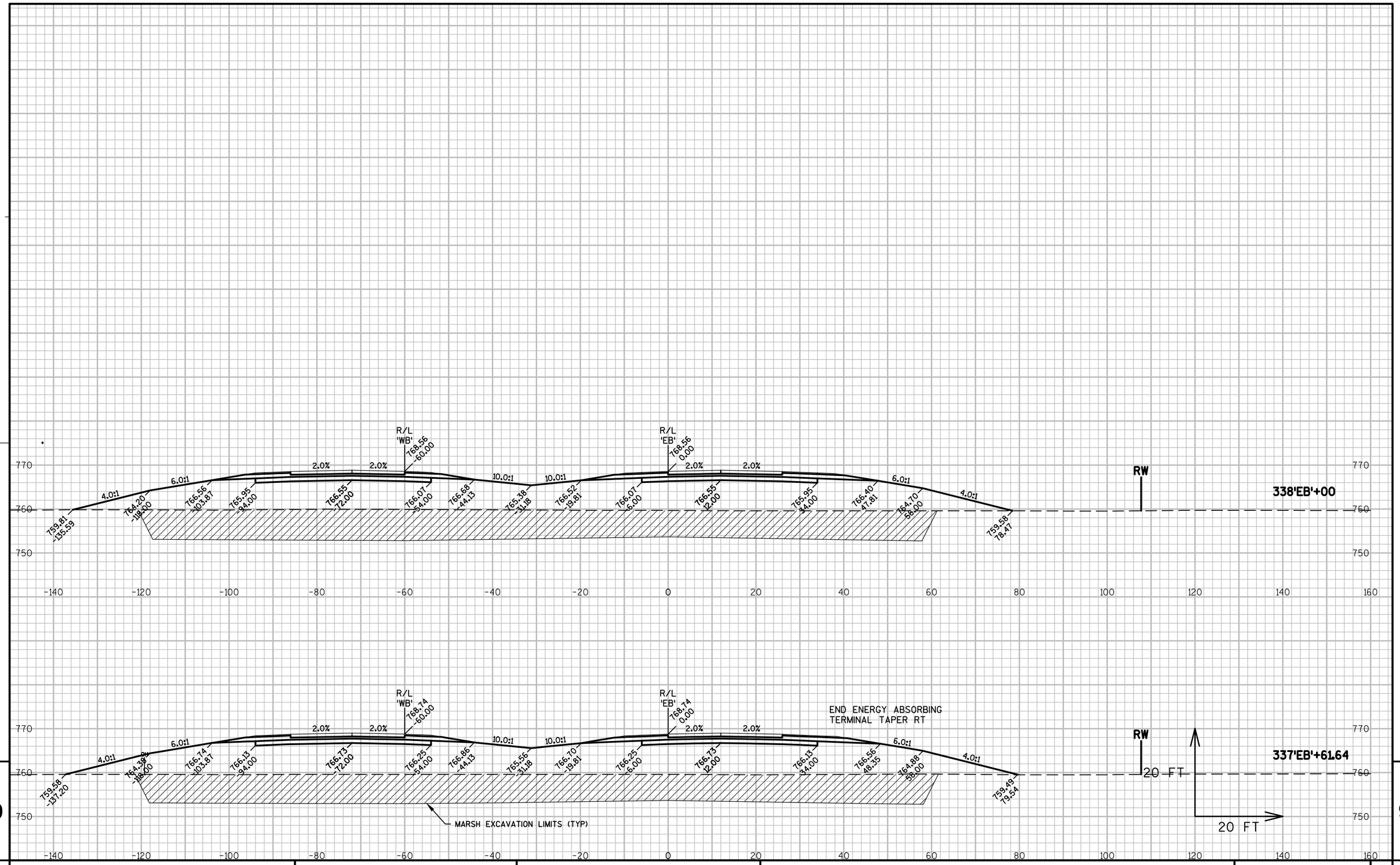
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 188	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090242_XS

PLOT DATE : 3/6/2017 12:29 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

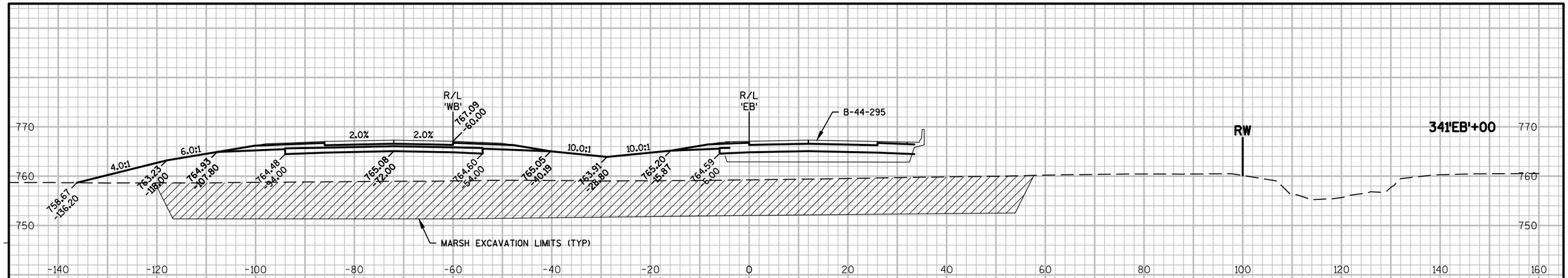


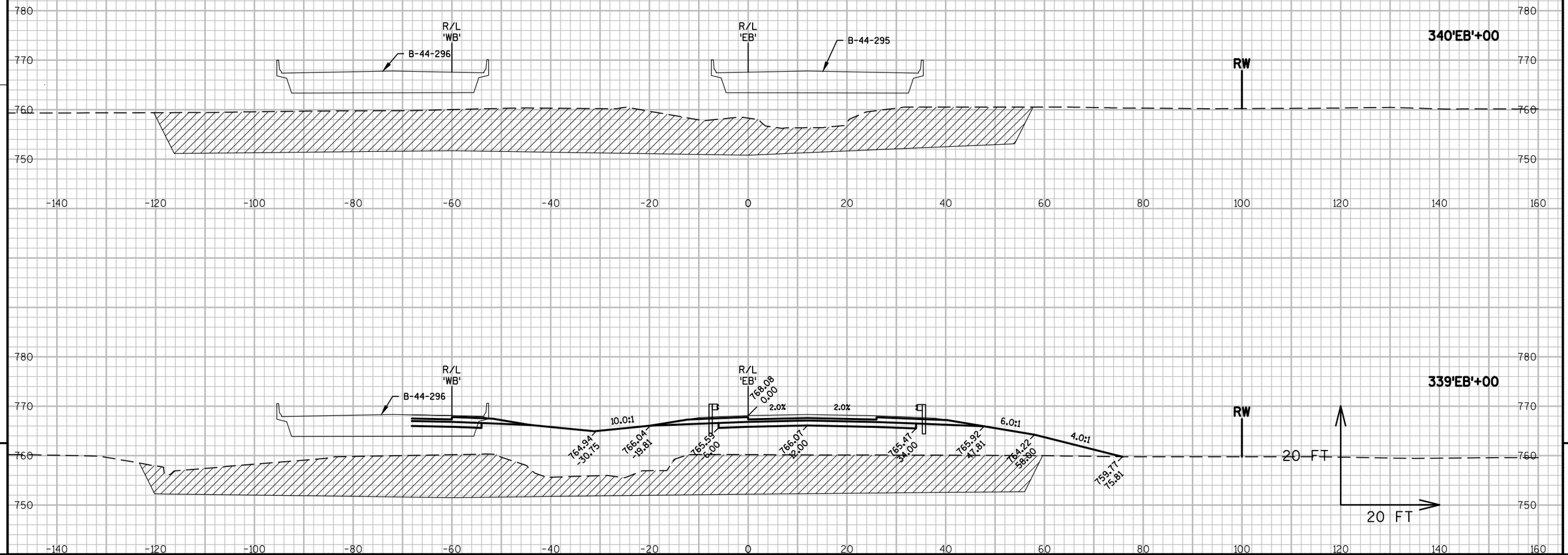
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9

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 189	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090243_XS
PLOT DATE : 3/6/2017 12:30 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49





9

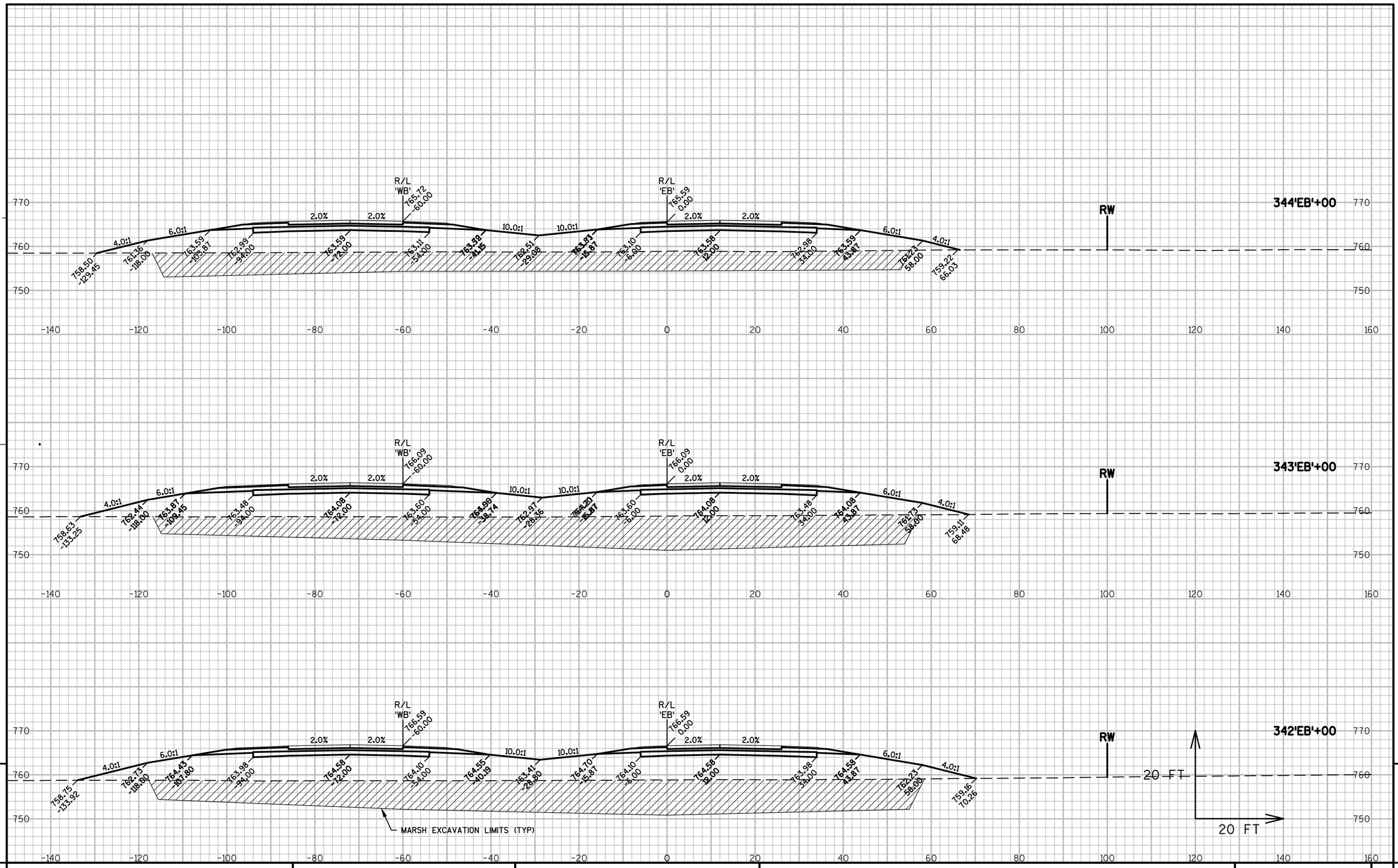
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 190	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090245_XS

PLOT DATE : 3/6/2017 12:35 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

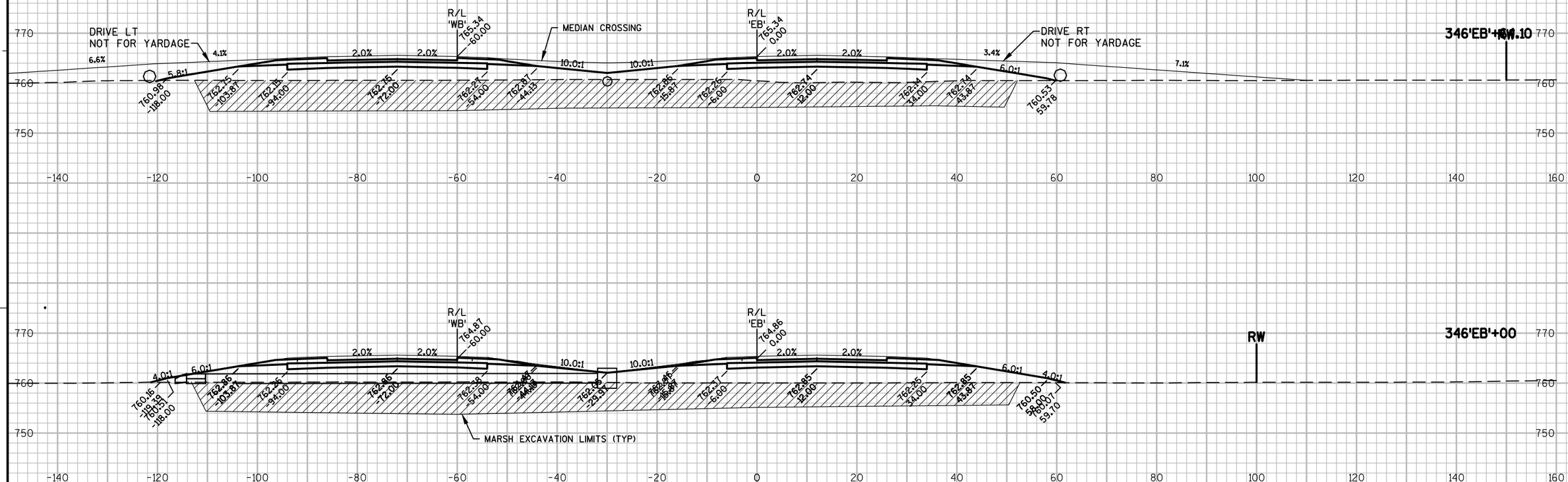


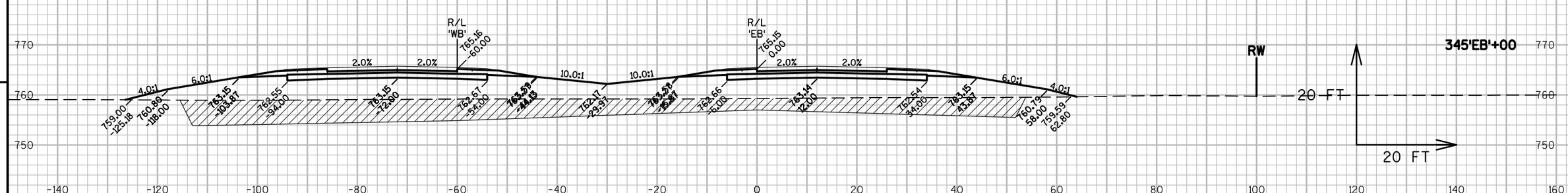
PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 191	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090246_XS

PLOT DATE : 3/6/2017 12:35 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49





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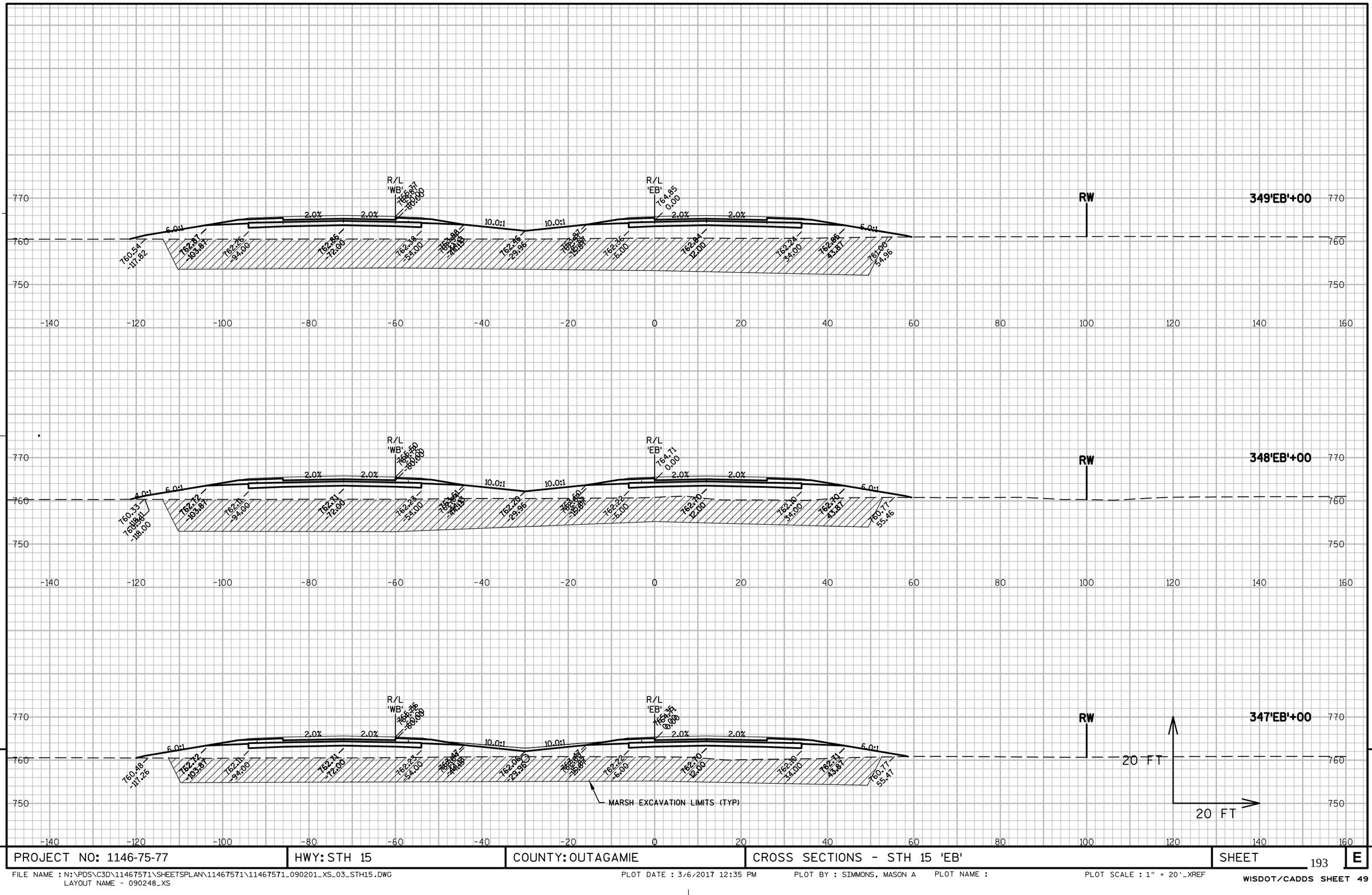
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 192	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090247_XS

PLOT DATE : 3/6/2017 12:35 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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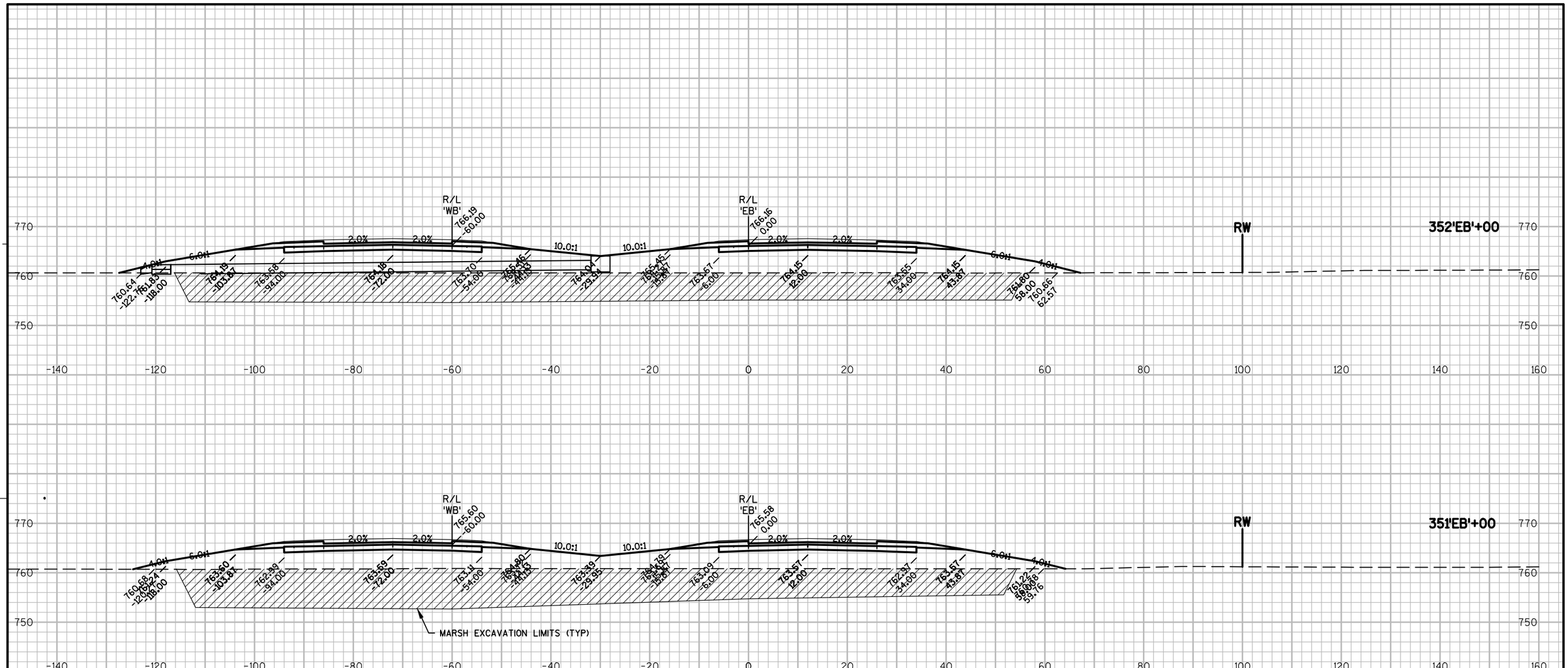
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 193	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090248_XS

PLOT DATE : 3/6/2017 12:35 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

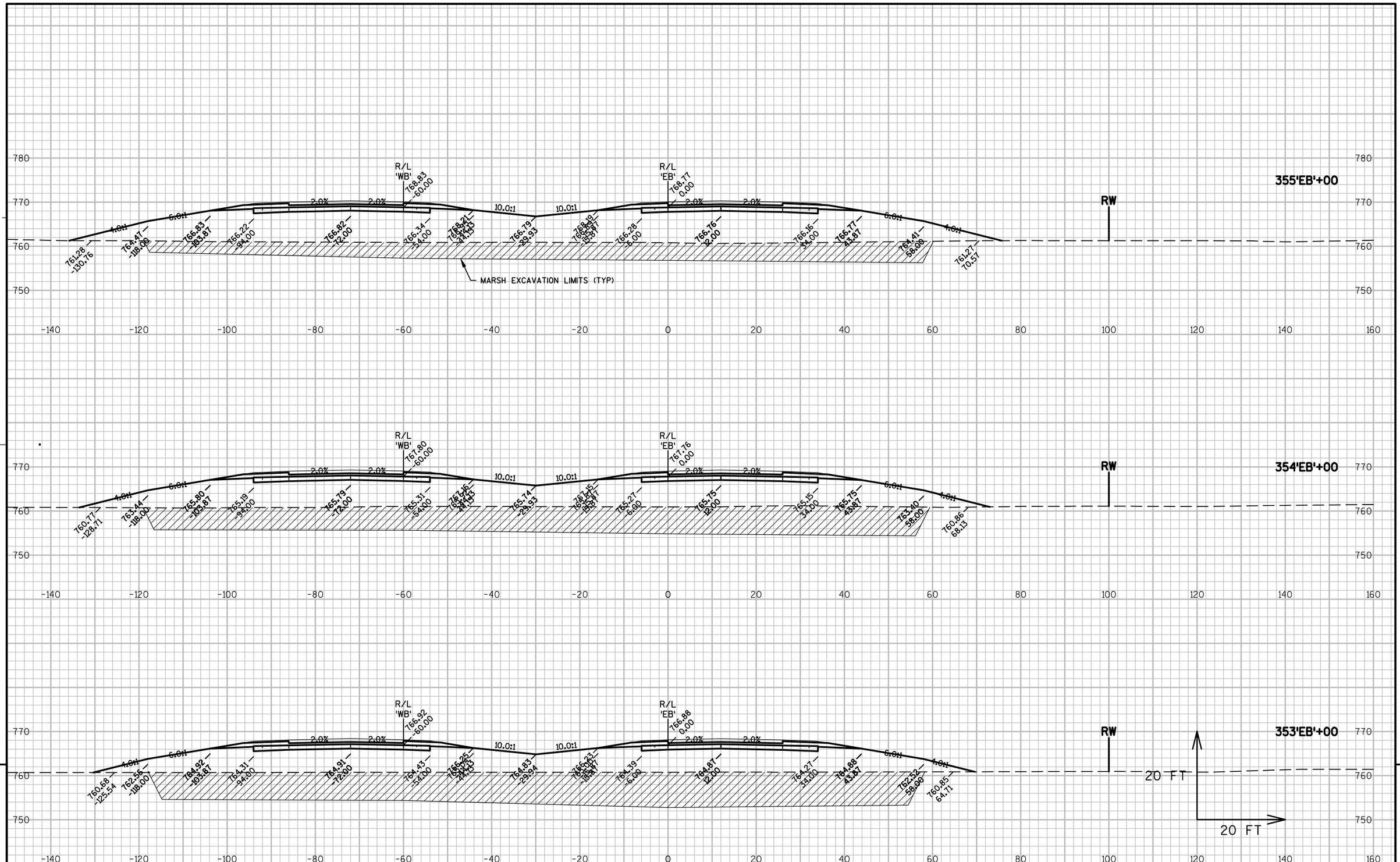




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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 194 E



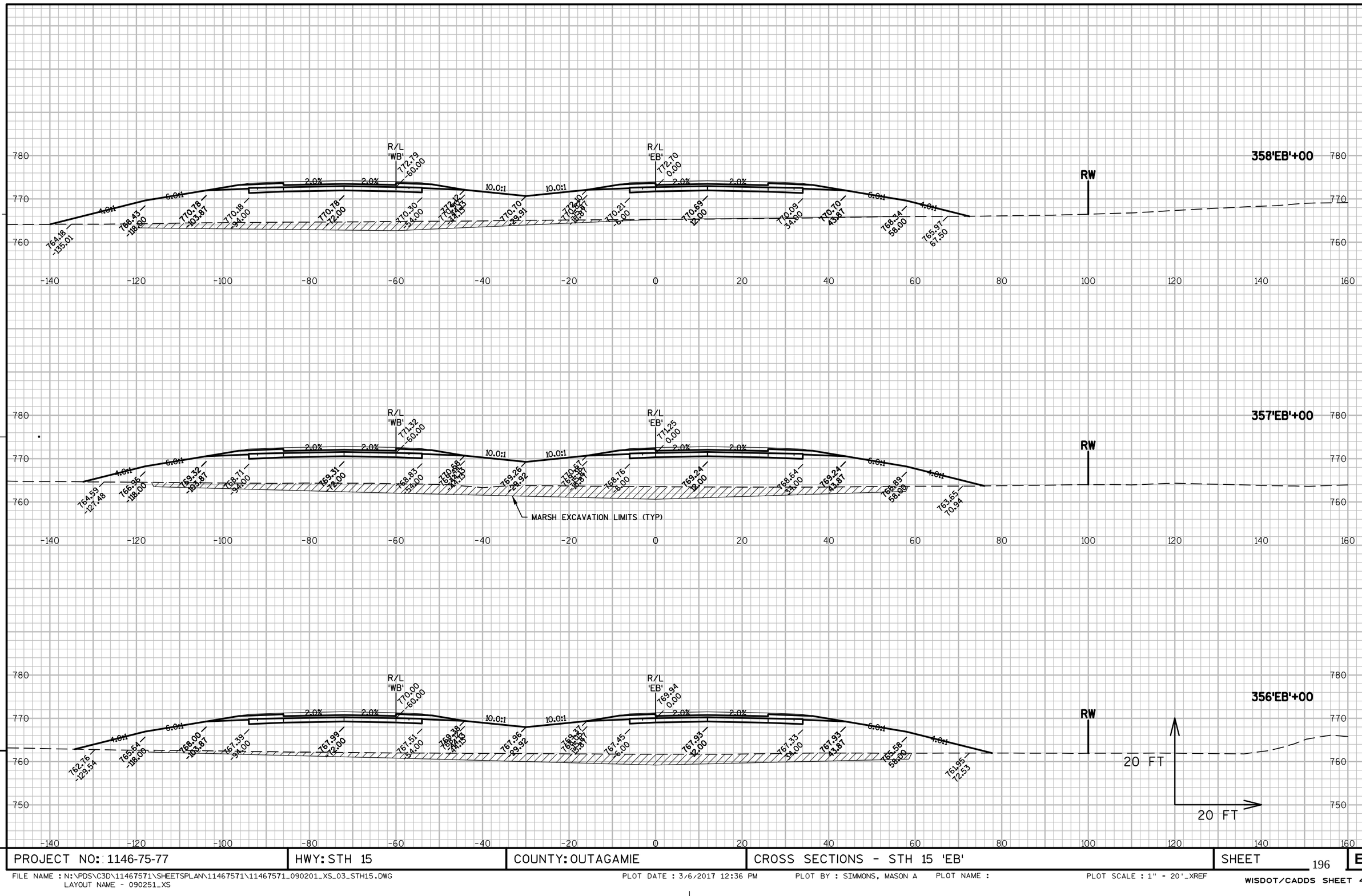
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 195	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090250_XS

PLOT DATE : 3/6/2017 12:36 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

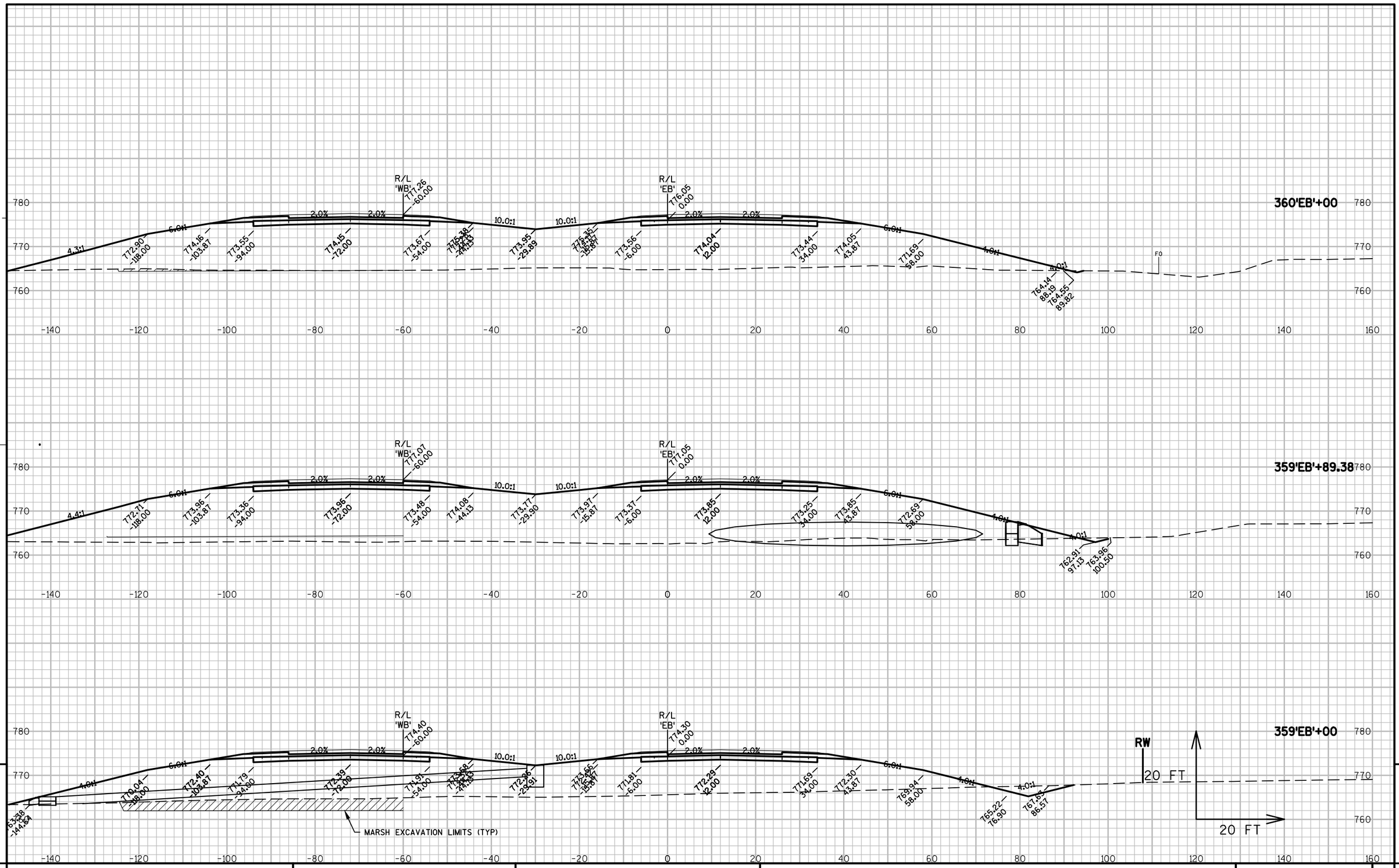
WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090251_XS

PLOT DATE : 3/6/2017 12:36 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



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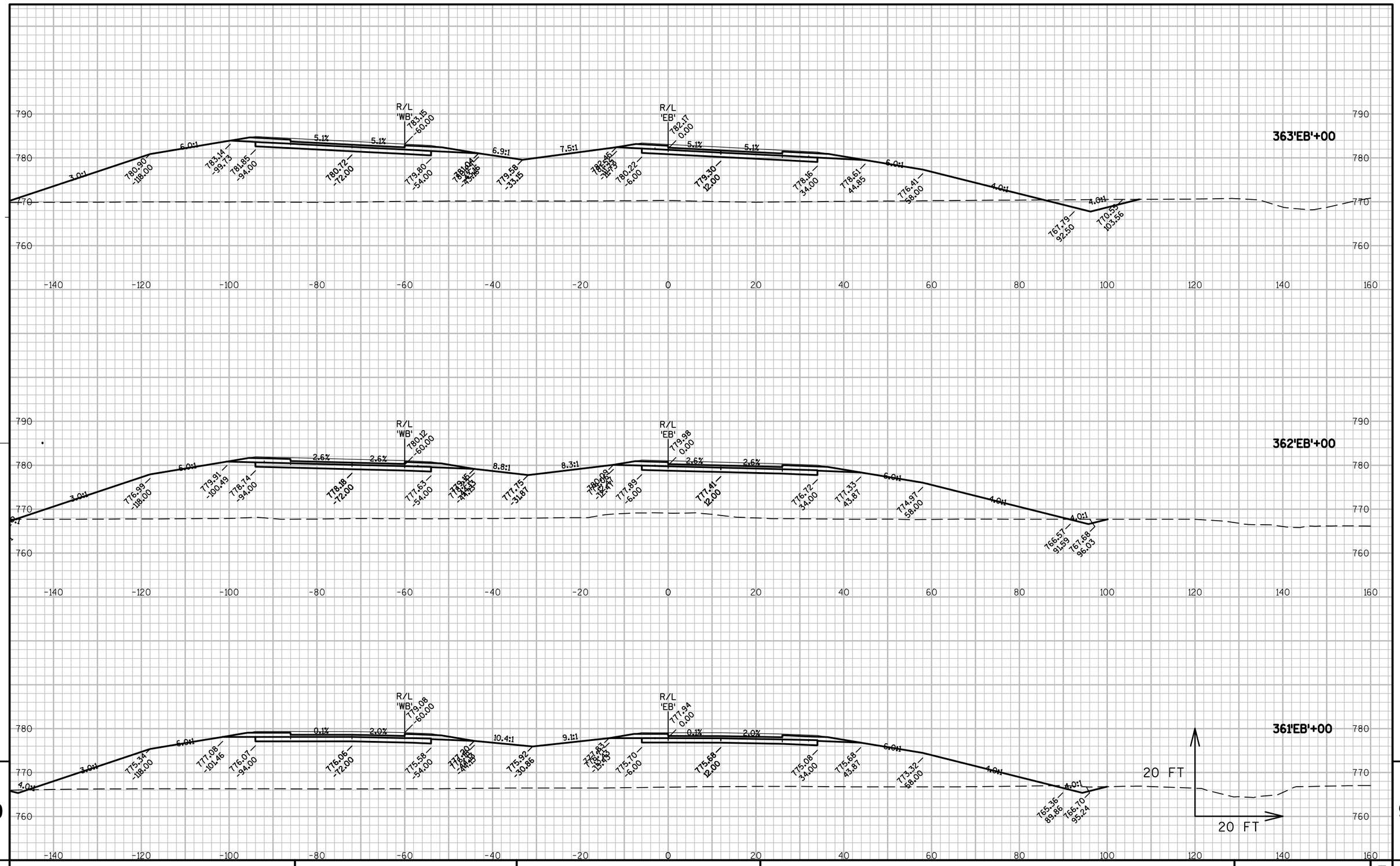
PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 197	E

9

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090252_XS

PLOT DATE : 3/6/2017 12:36 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

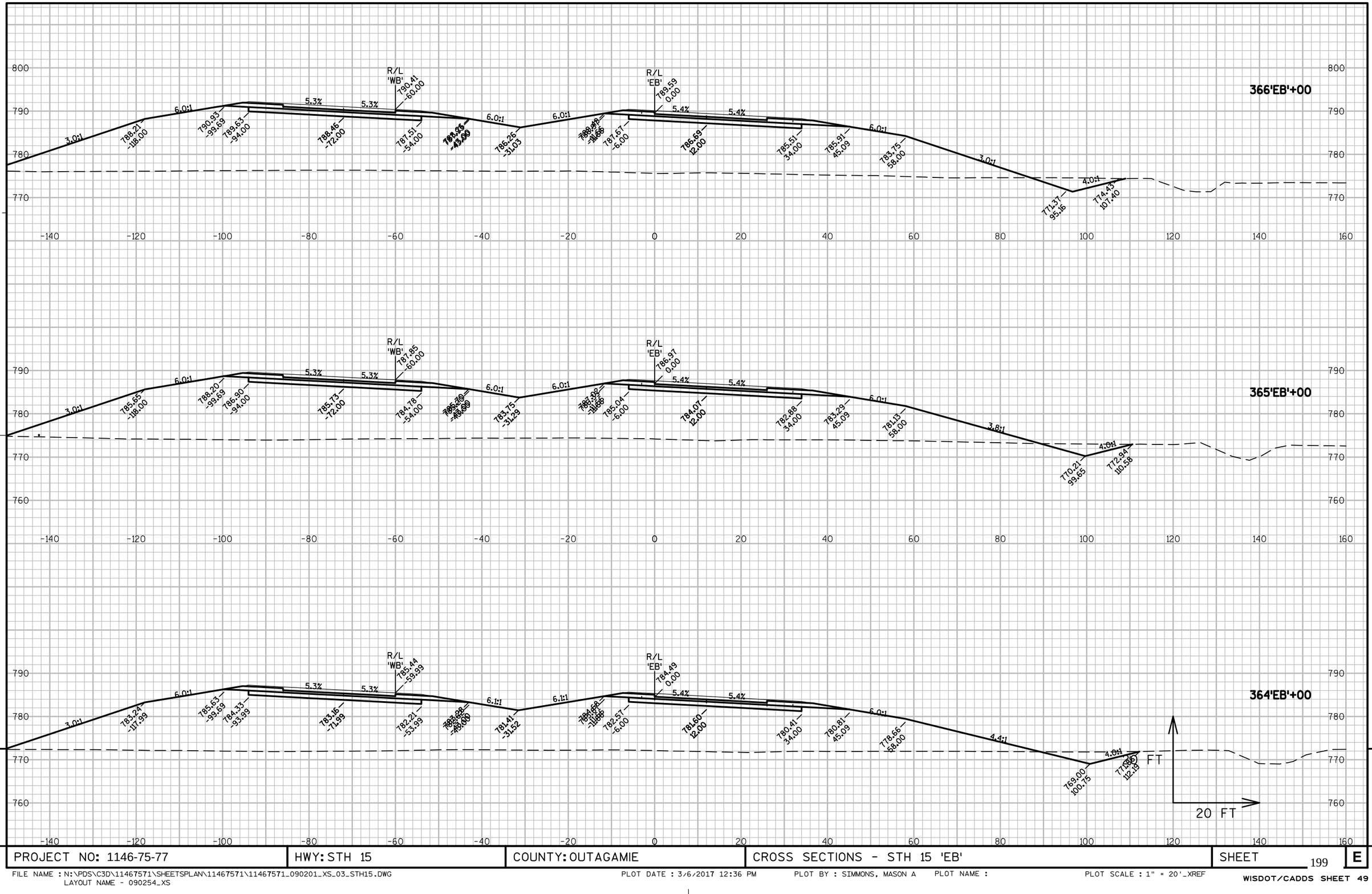


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090253_XS

PLOT DATE : 3/6/2017 12:36 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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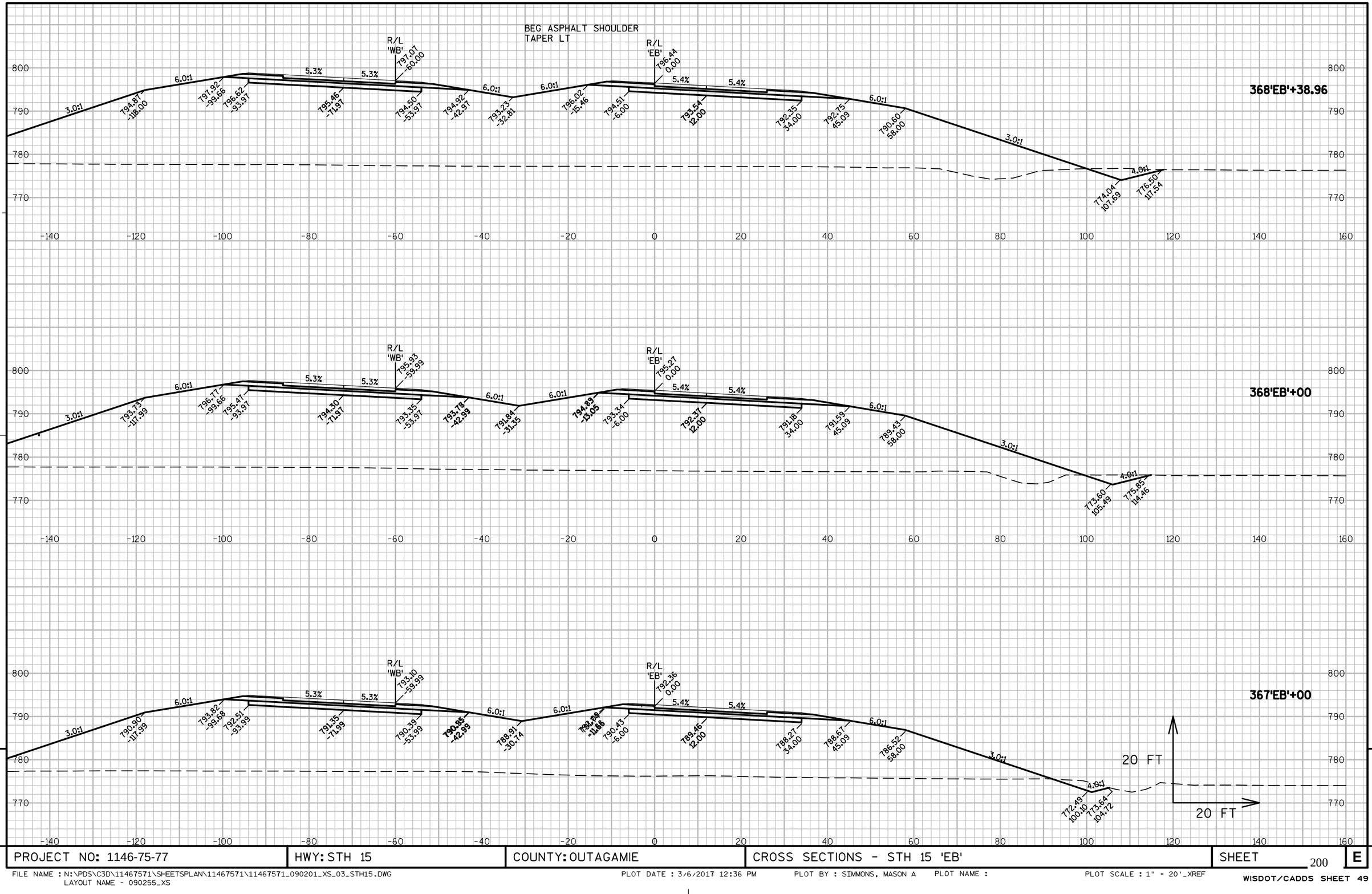
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 199	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090254_XS

PLOT DATE : 3/6/2017 12:36 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

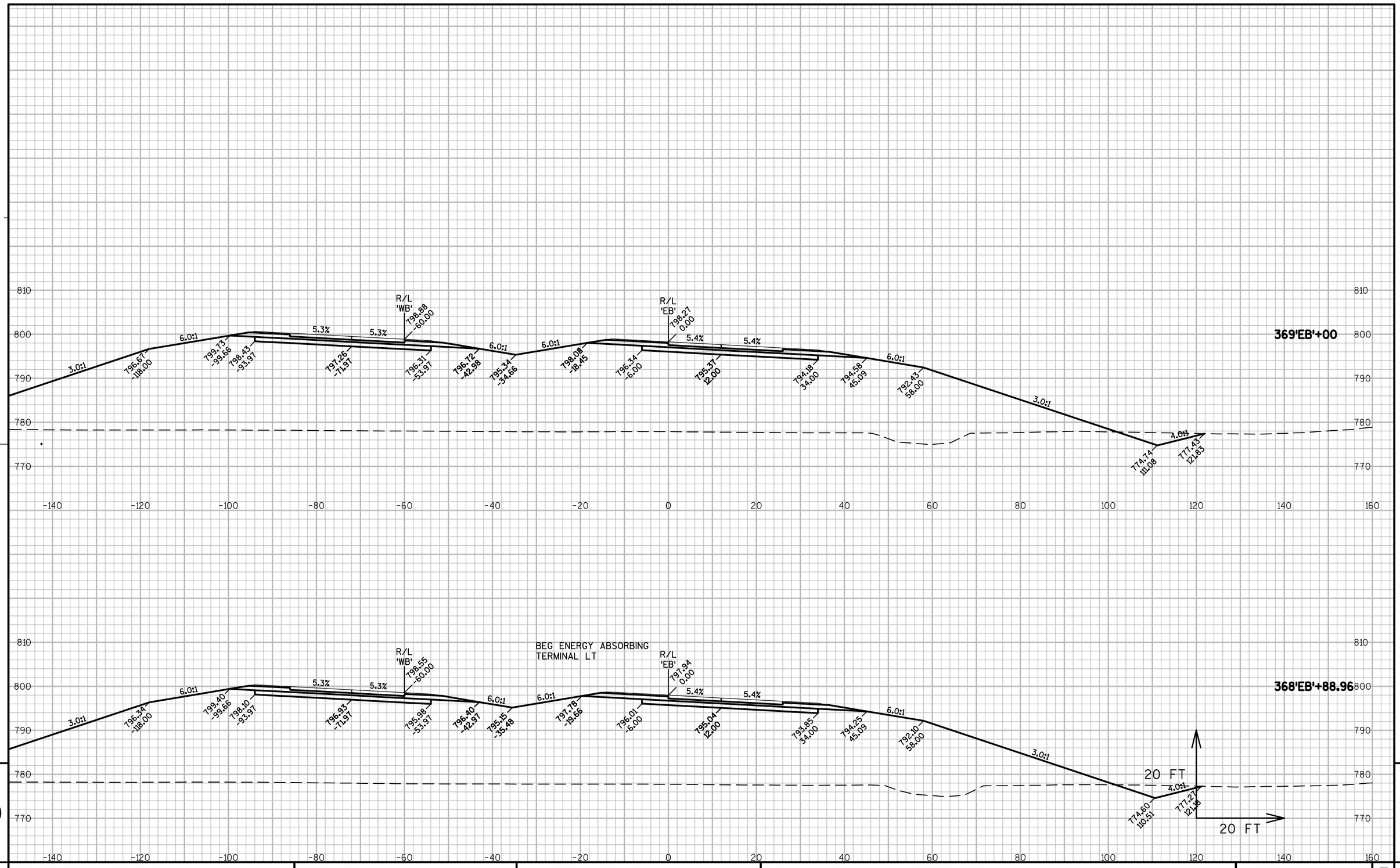


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 200	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090255_XS

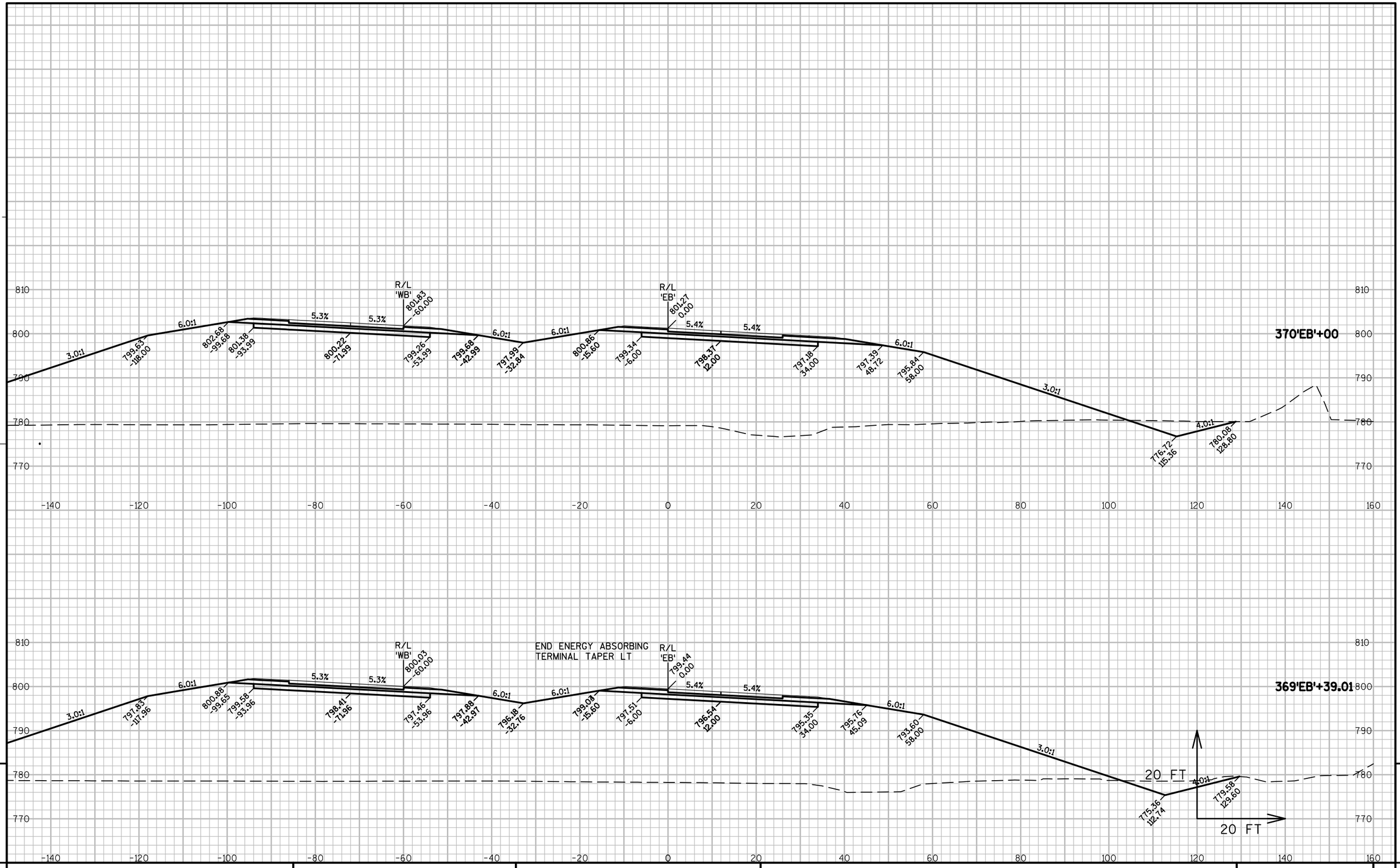
PLOT DATE : 3/6/2017 12:36 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 201	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090256_XS
PLOT DATE : 3/6/2017 12:37 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



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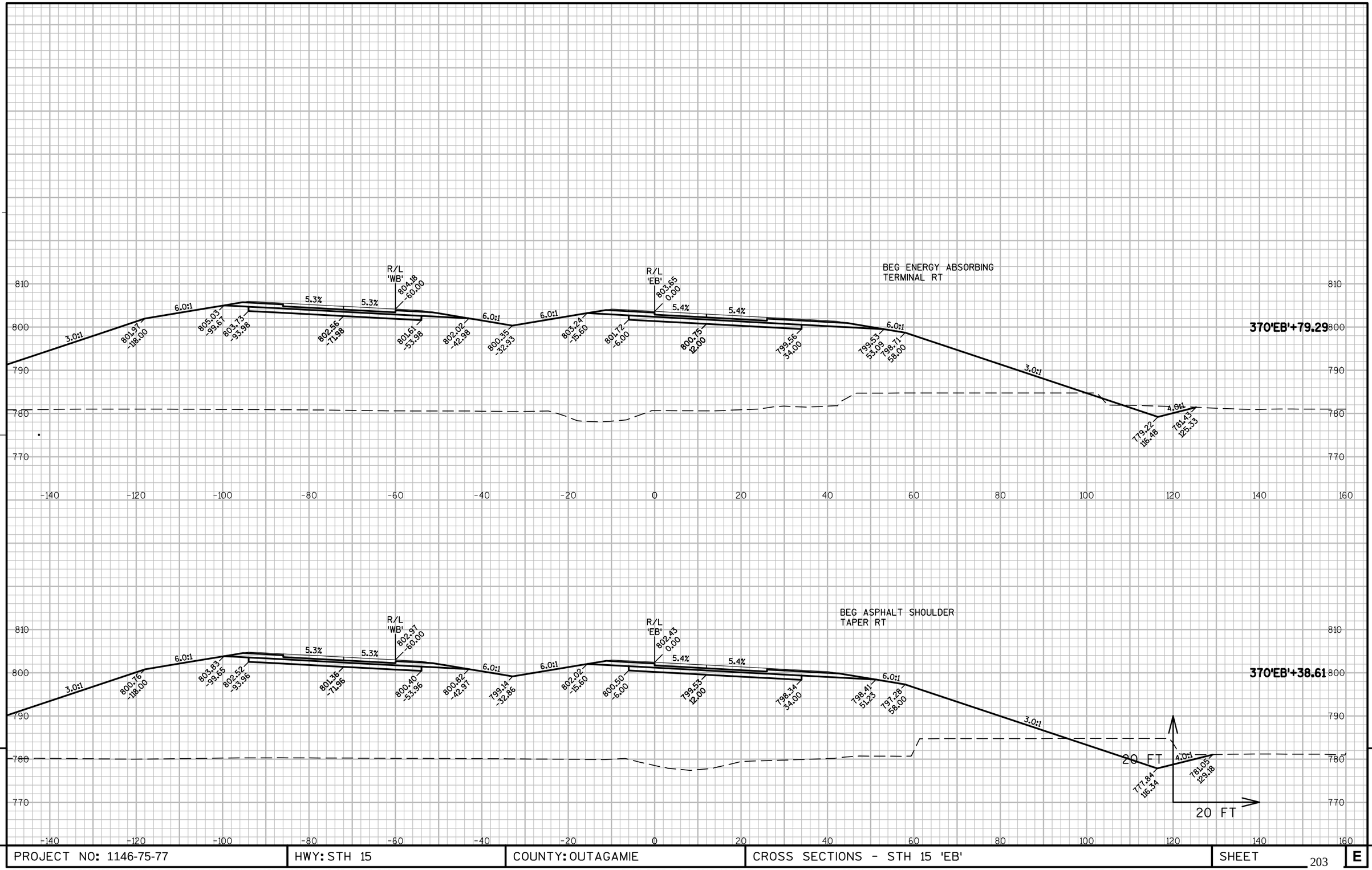
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 202	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090257_XS

PLOT DATE : 3/6/2017 12:37 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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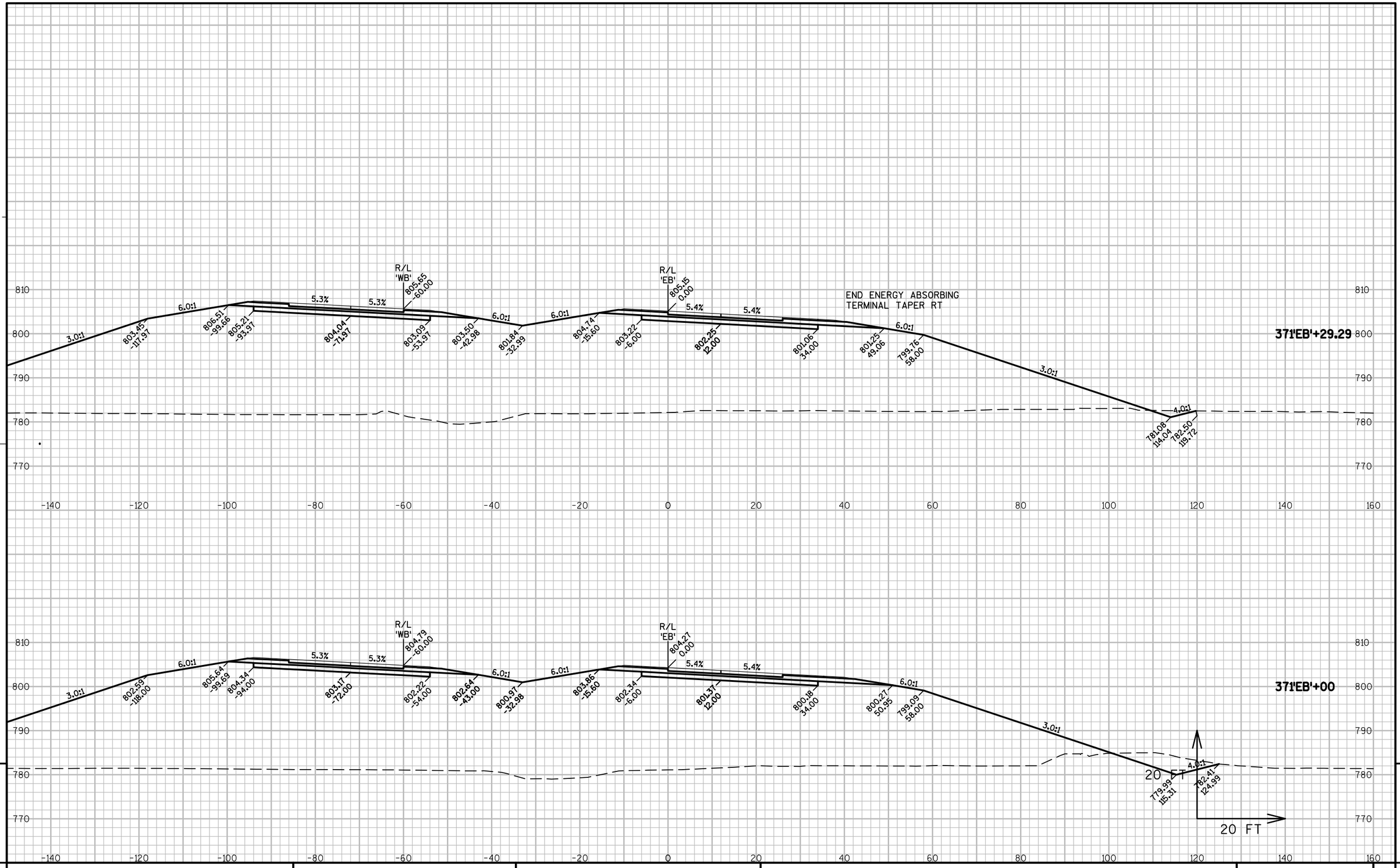
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 203	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090258_XS

PLOT DATE : 3/6/2017 12:37 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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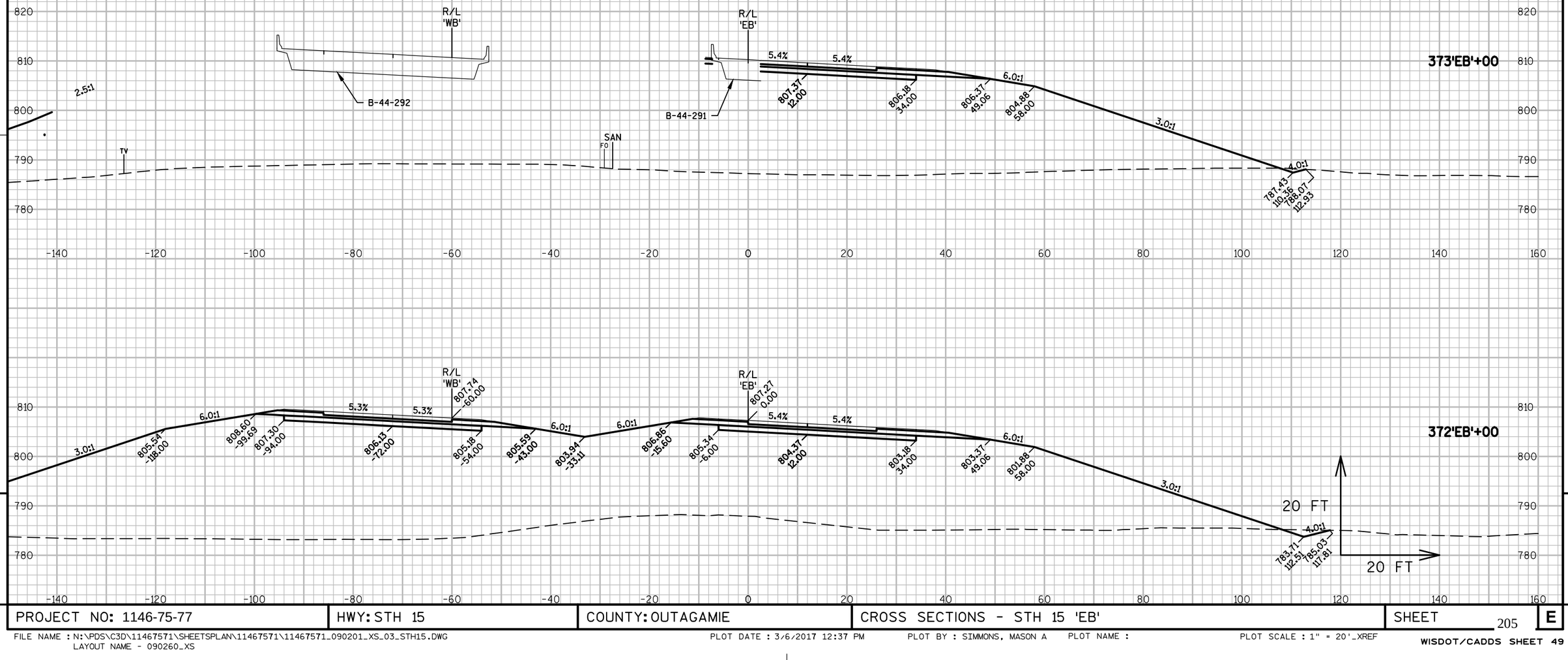
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 204	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090259_XS

PLOT DATE : 3/6/2017 12:37 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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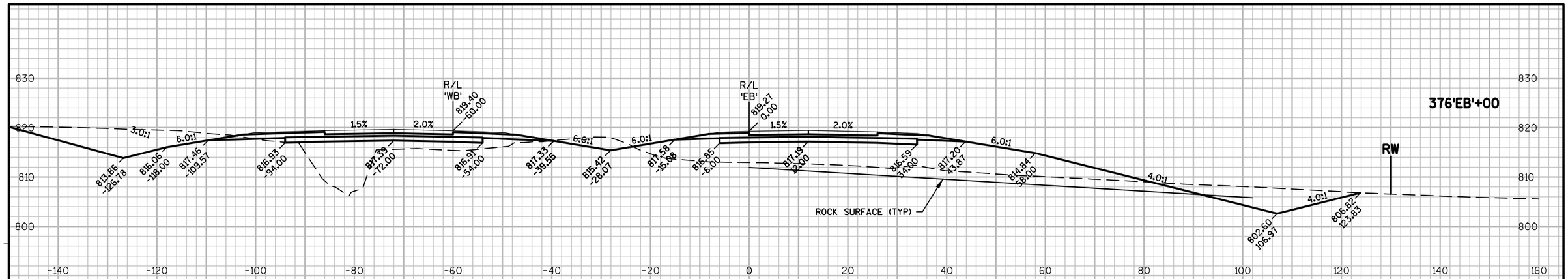
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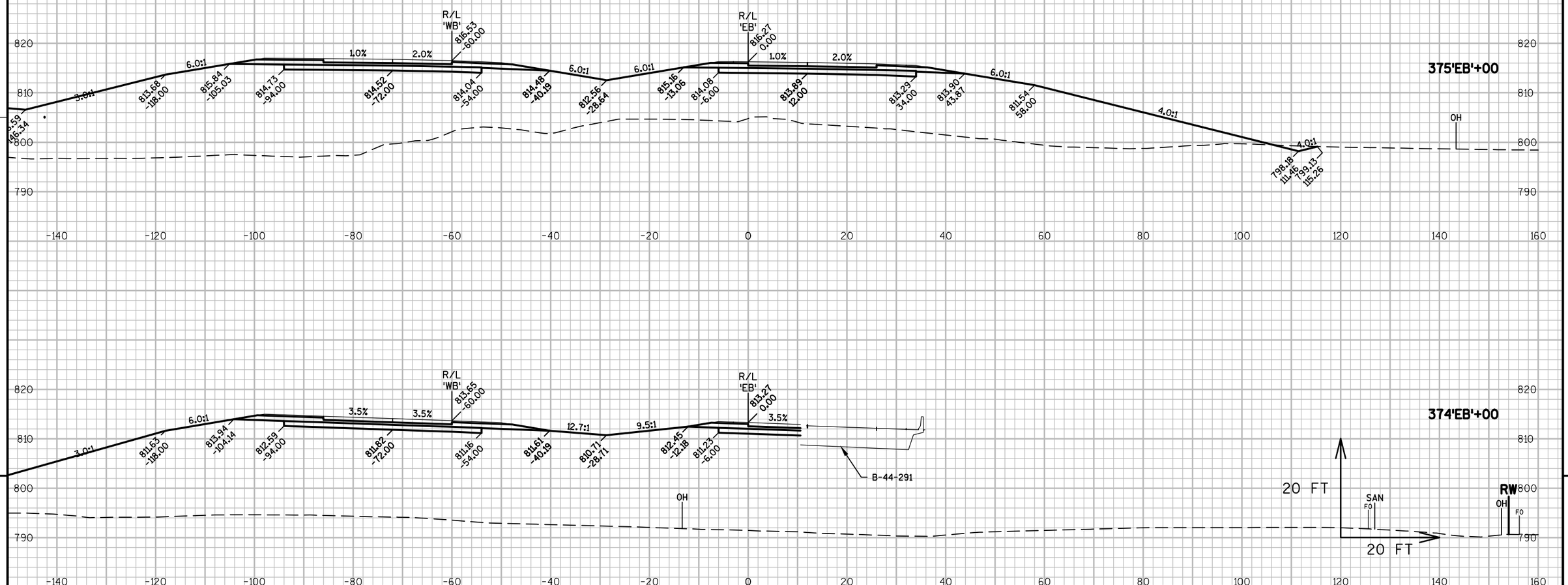
PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 205 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090260_XS

PLOT DATE : 3/6/2017 12:37 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

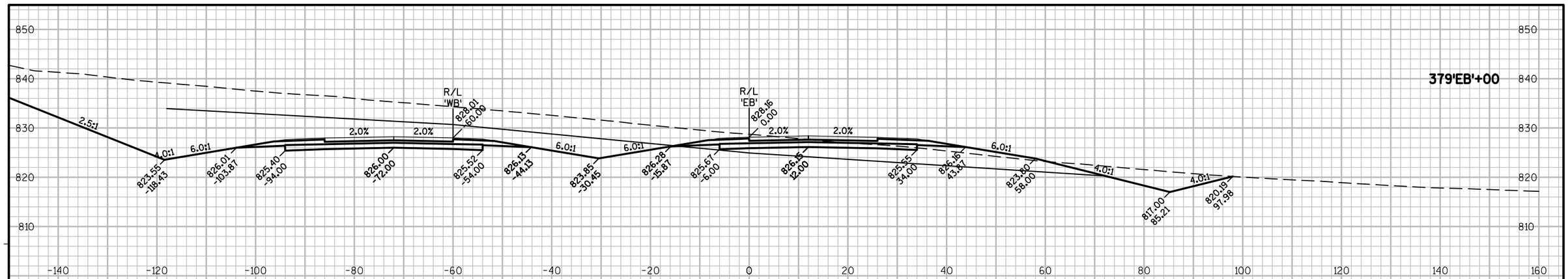


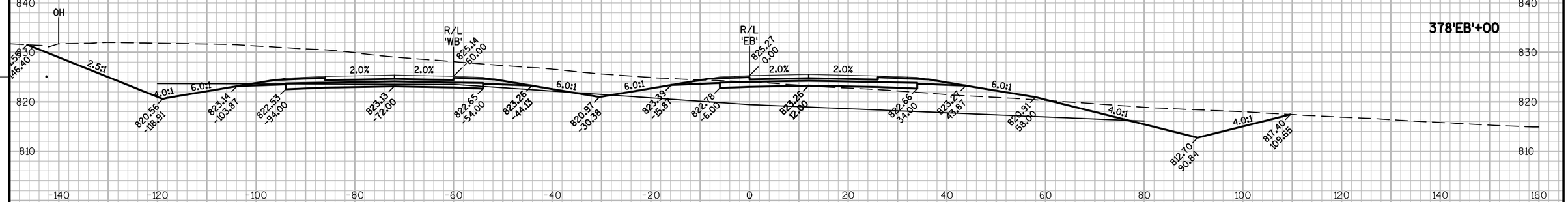


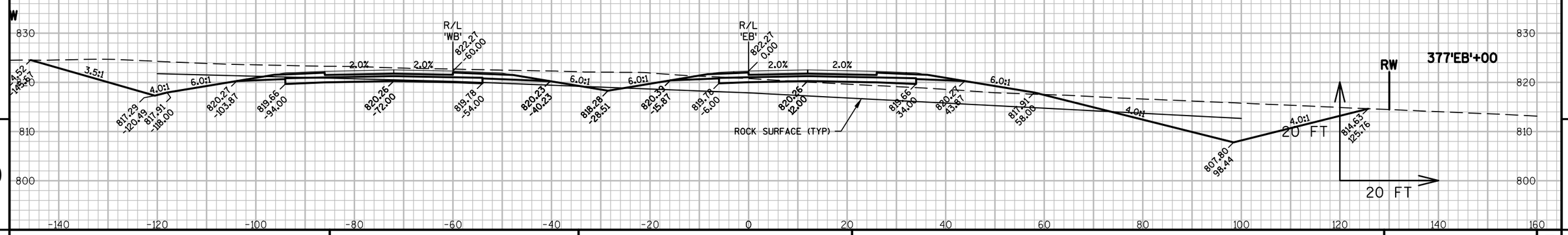
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 206	E

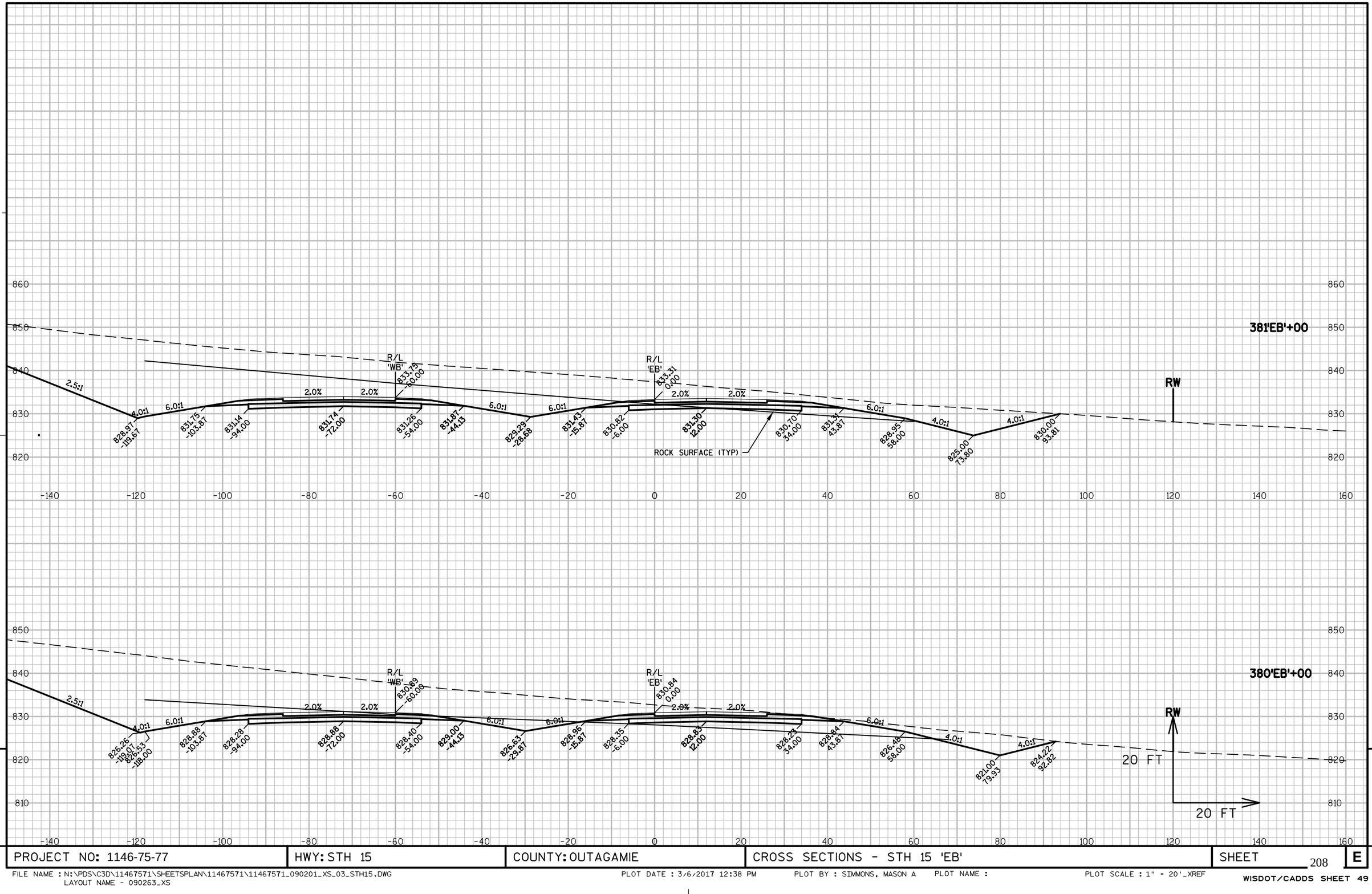






PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 207	E

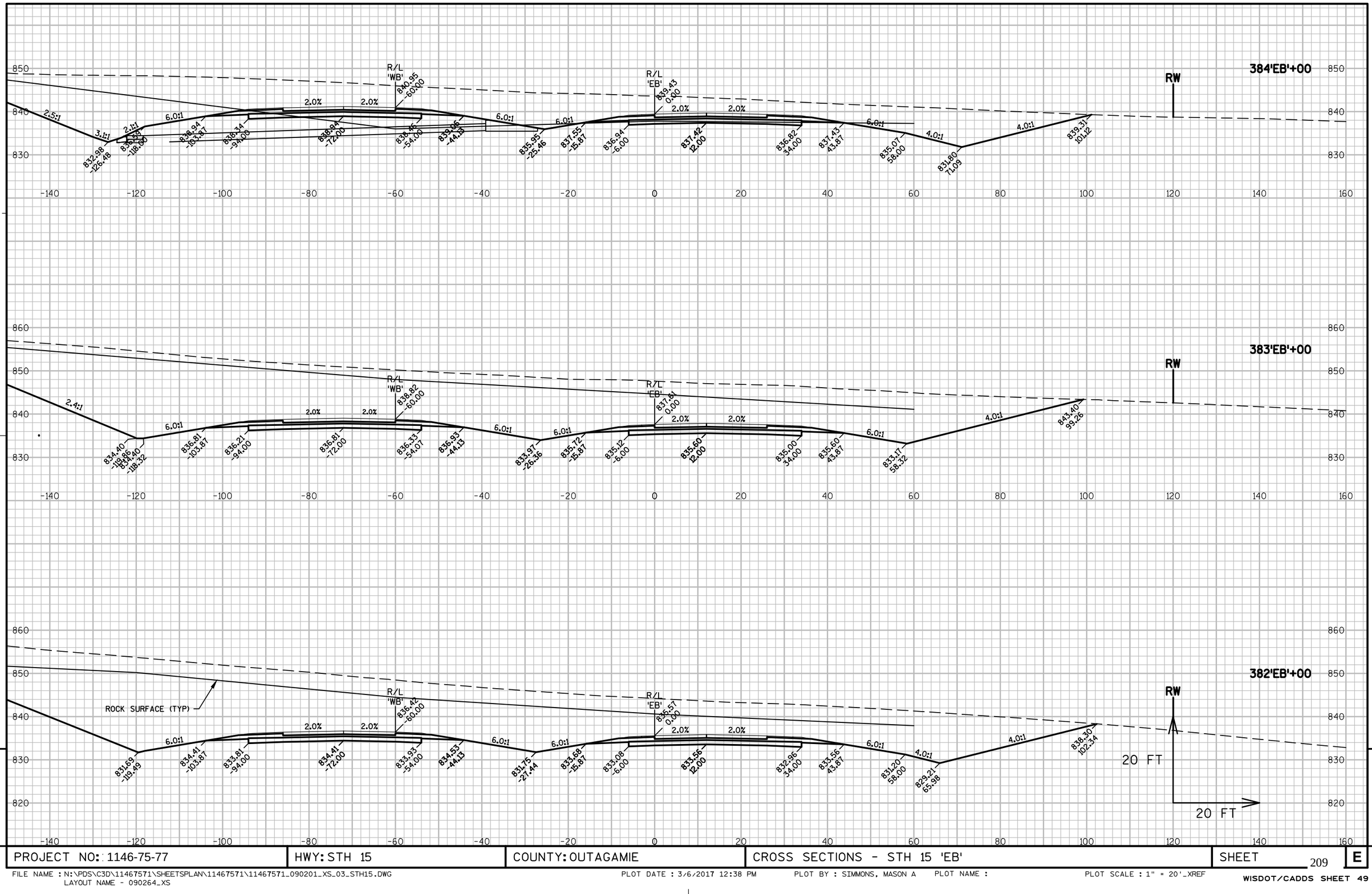
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090262_XS
PLOT DATE : 3/6/2017 12:38 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



9

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 208	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090263_XS
PLOT DATE : 3/6/2017 12:38 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



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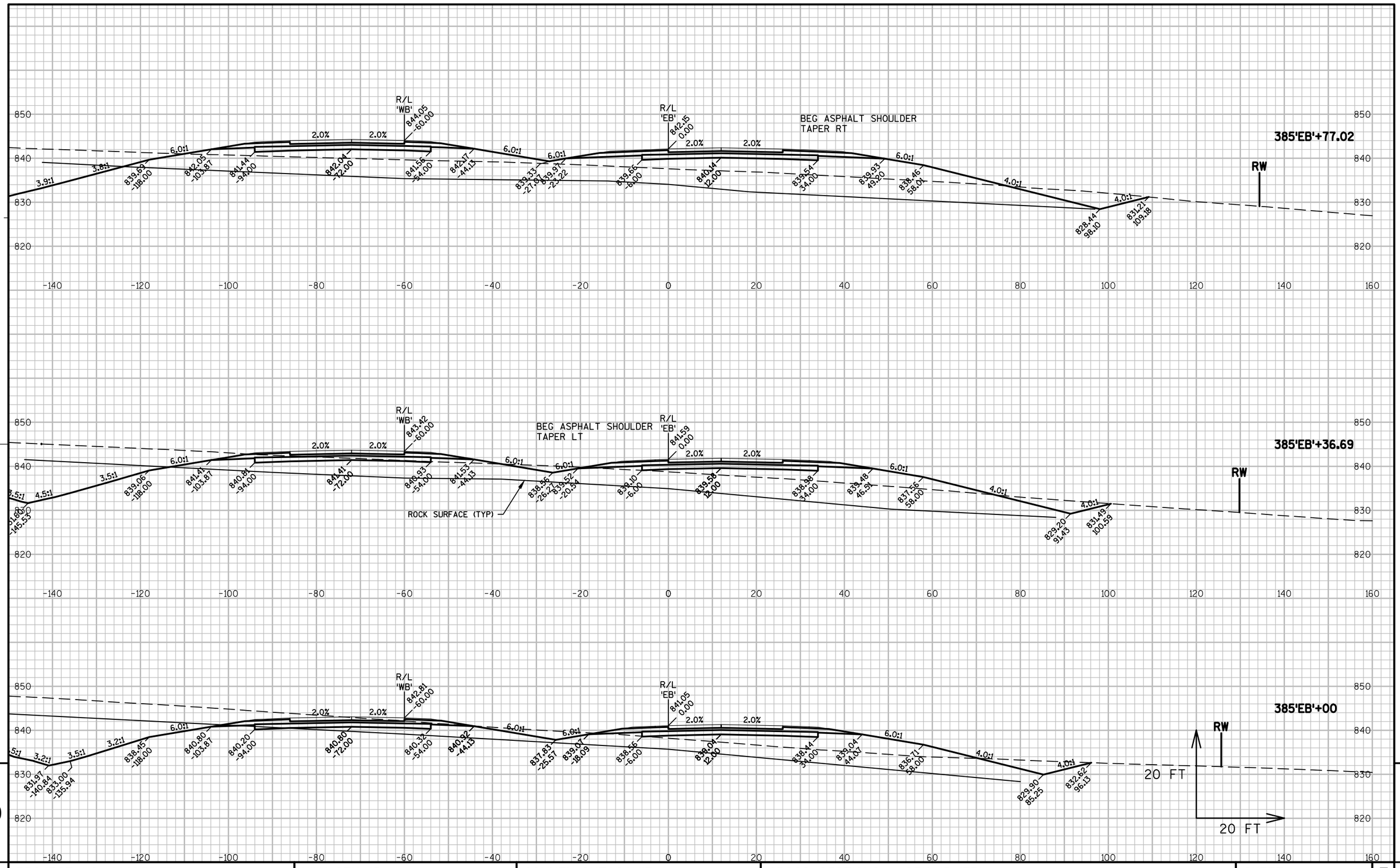
PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 209	E

9

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090264_XS

PLOT DATE : 3/6/2017 12:38 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 210	E

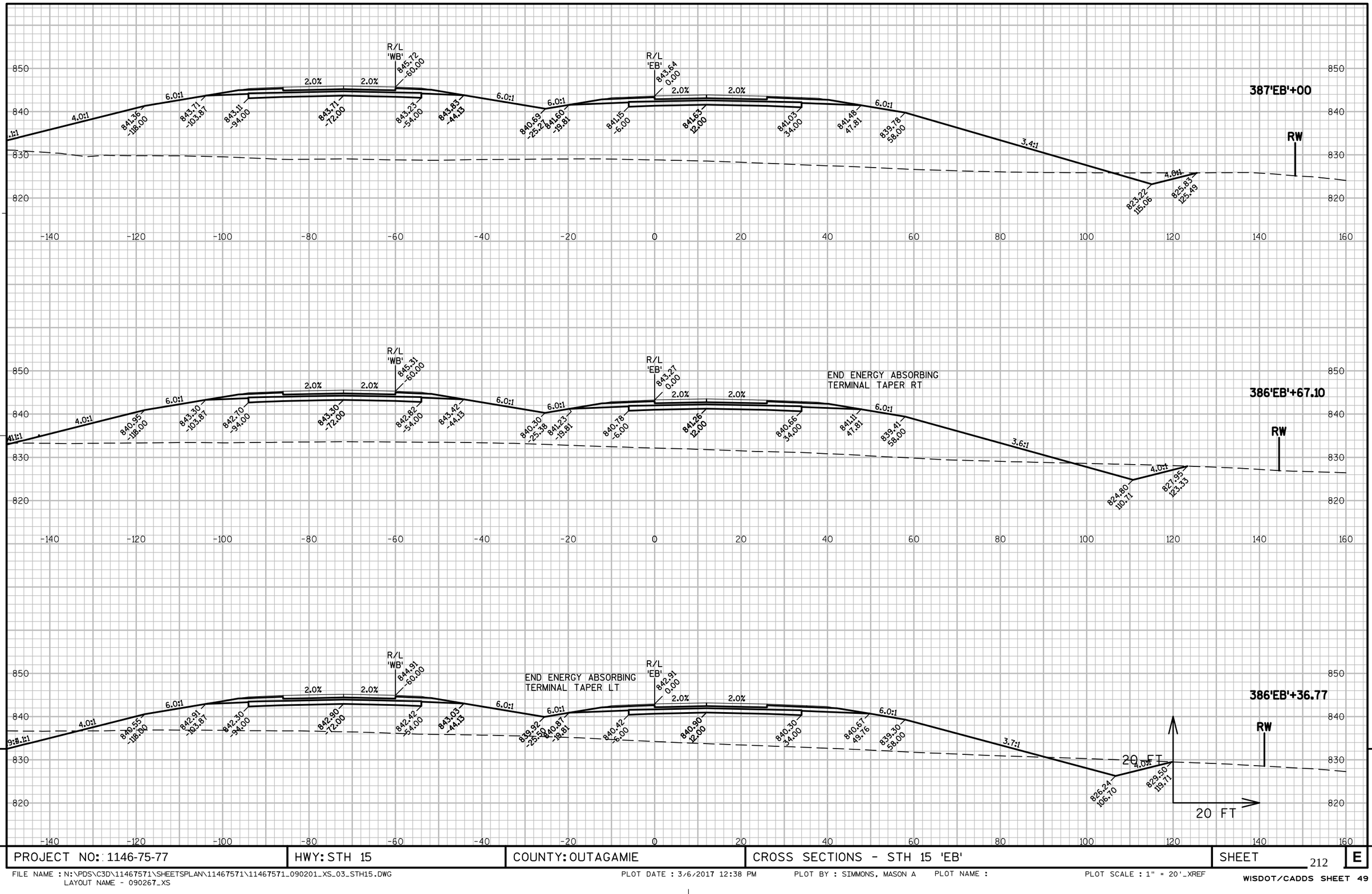
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090265_XS
PLOT DATE : 3/6/2017 12:38 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 211	E

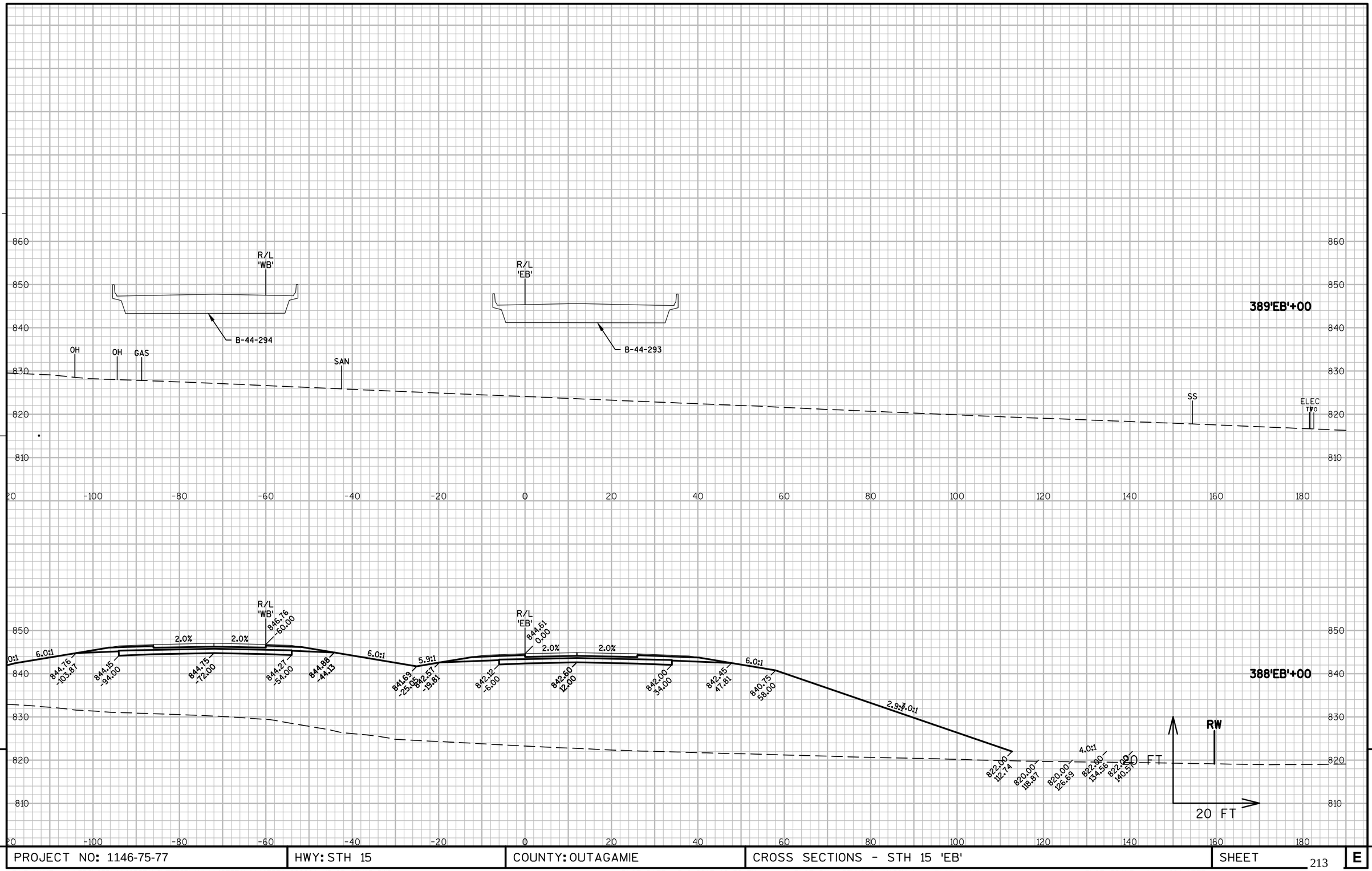
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090266_XS

PLOT DATE : 3/6/2017 12:38 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 212	E

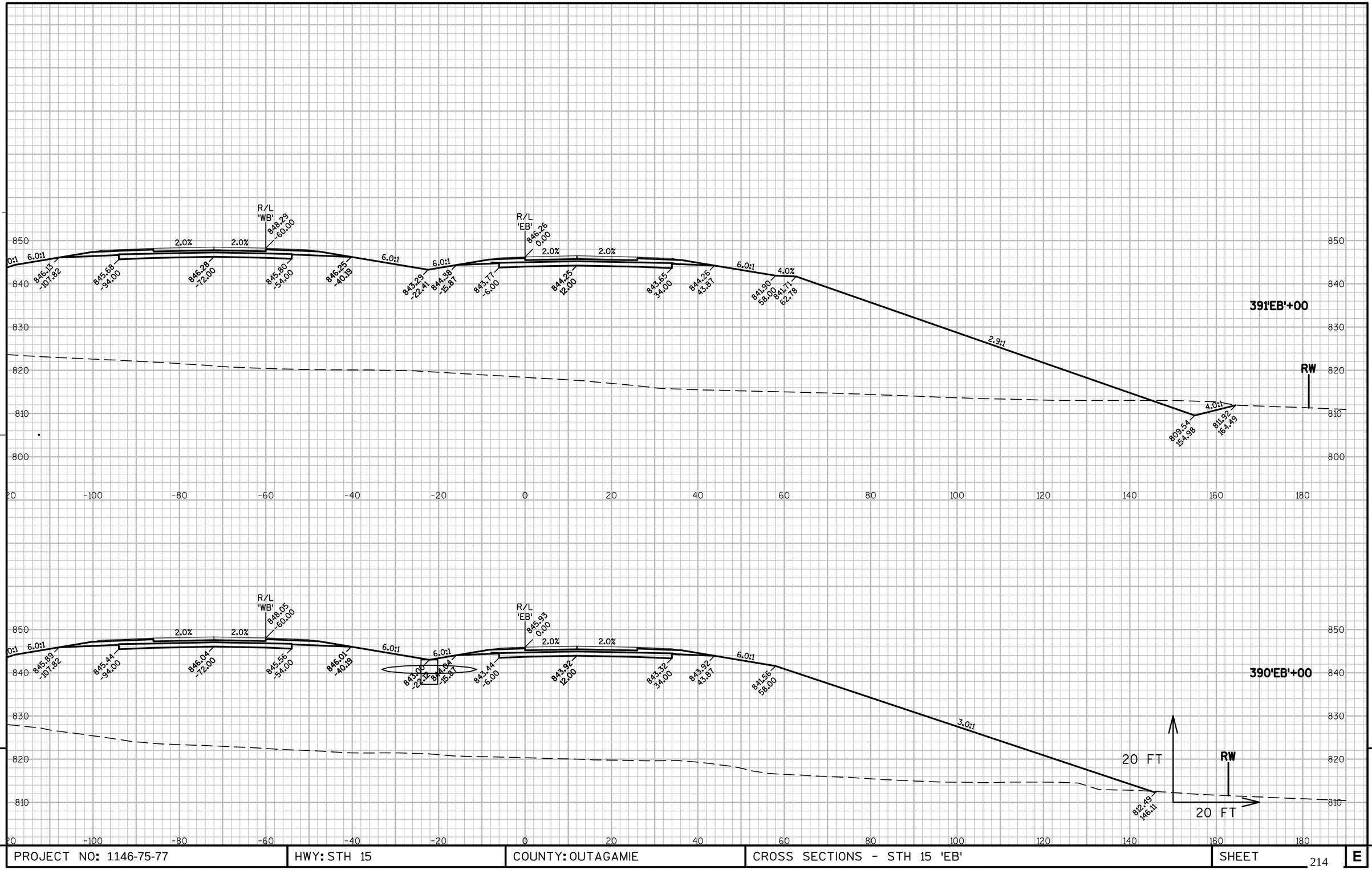


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 213 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090268_XS

PLOT DATE : 3/6/2017 12:39 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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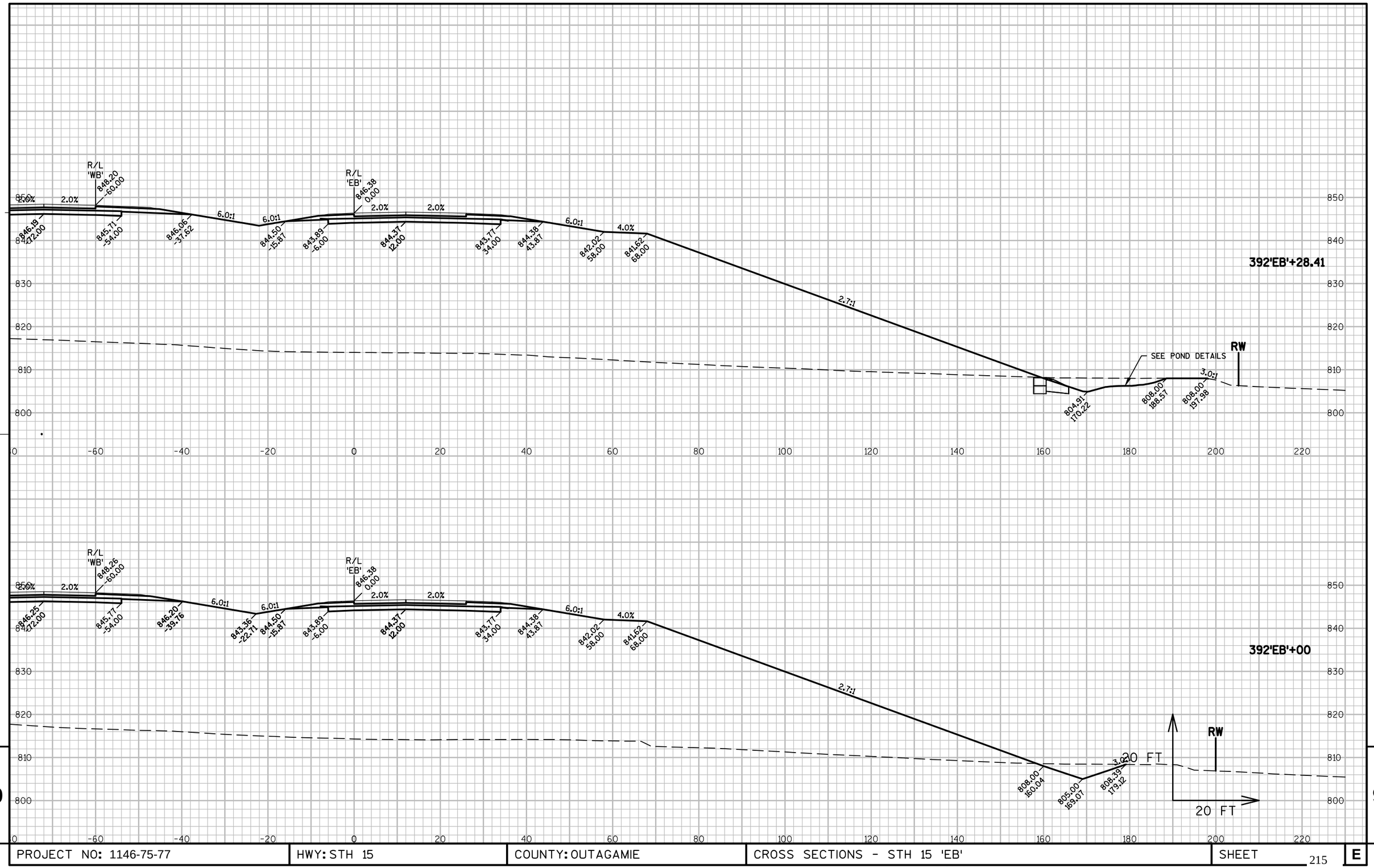
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 214	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090269_XS

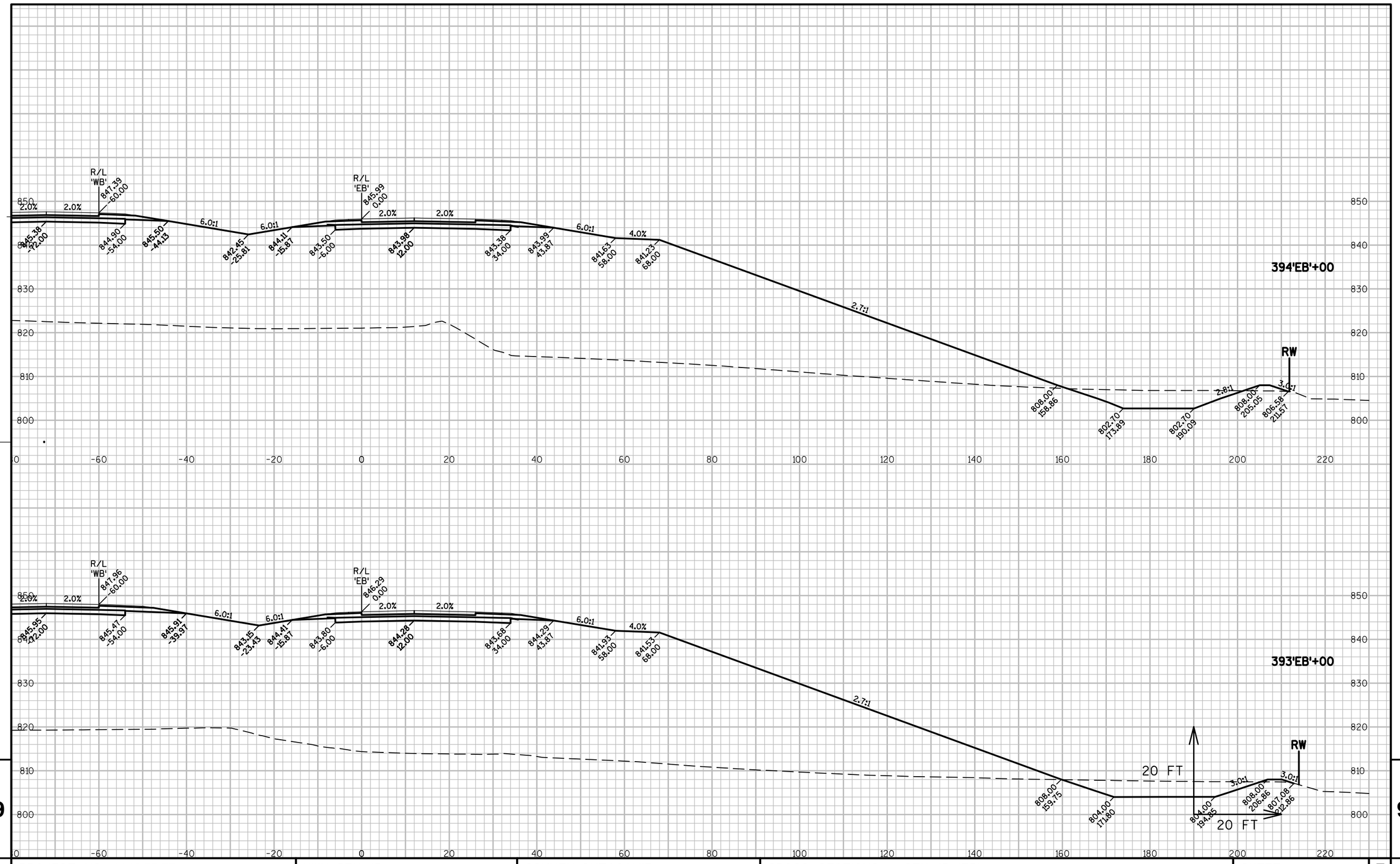
PLOT DATE : 3/6/2017 12:39 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 215 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090270_XS
PLOT DATE : 3/6/2017 12:39 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



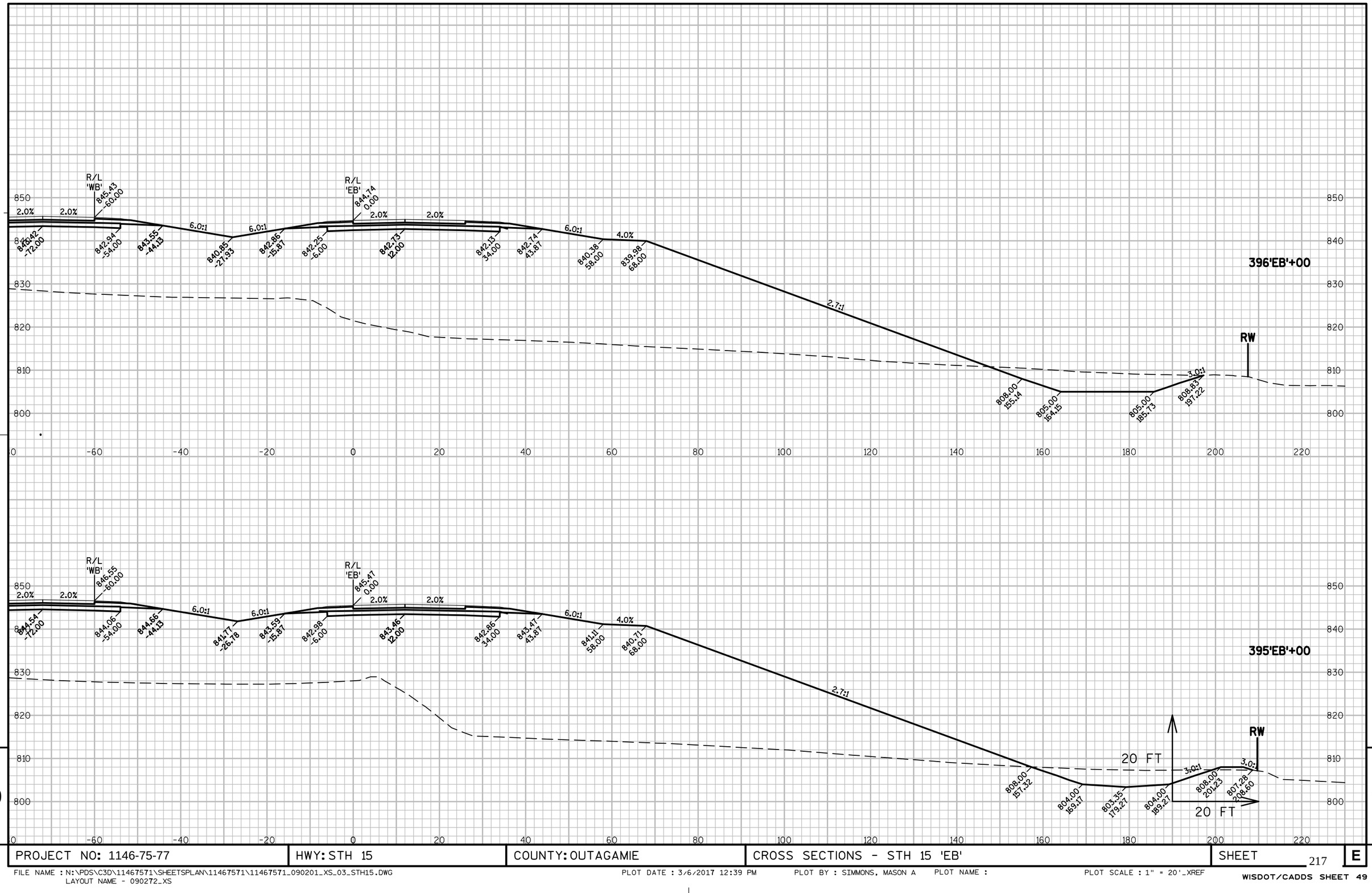
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 216	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090271_XS

PLOT DATE : 3/6/2017 12:39 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

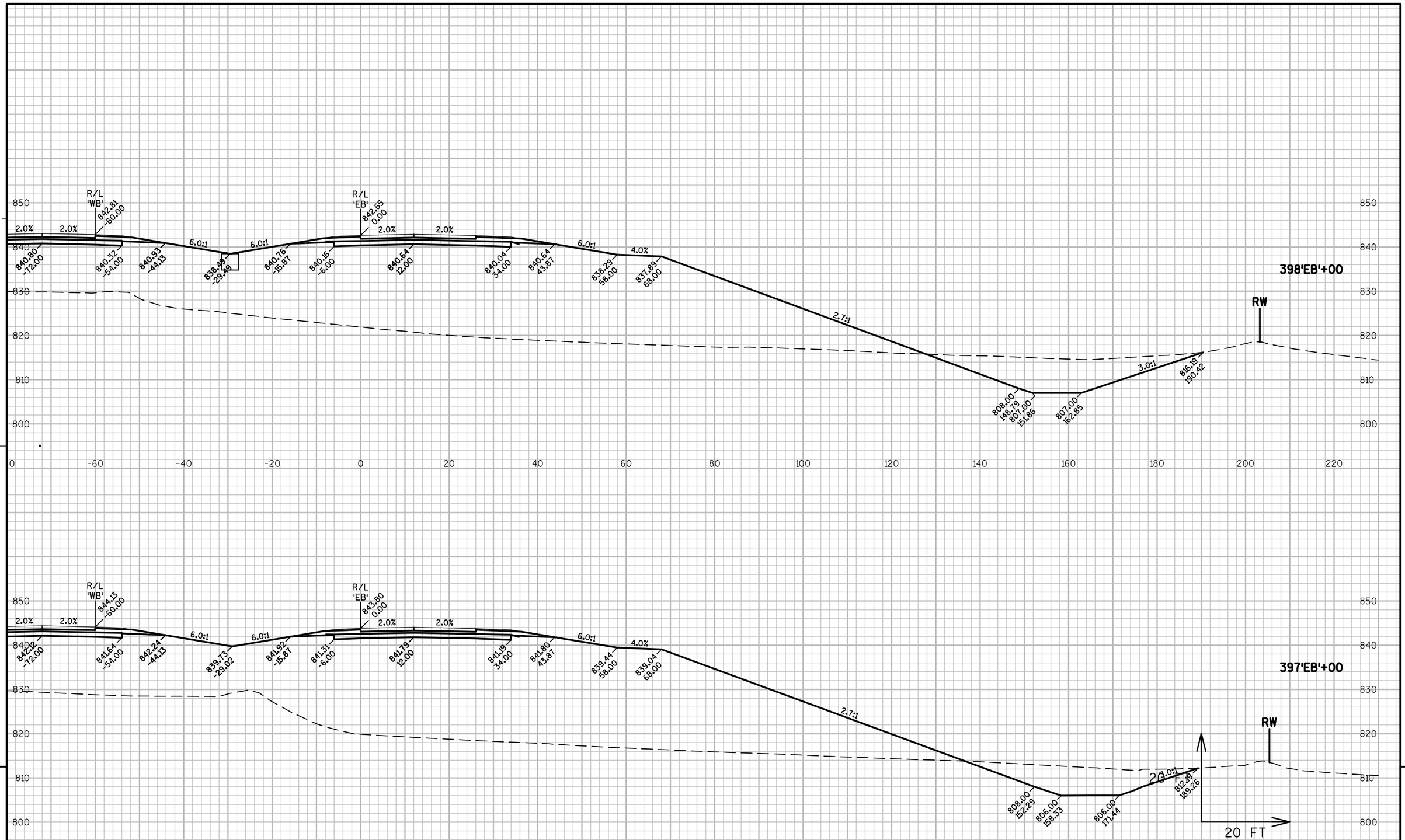


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9

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 217	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090272_XS
PLOT DATE : 3/6/2017 12:39 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



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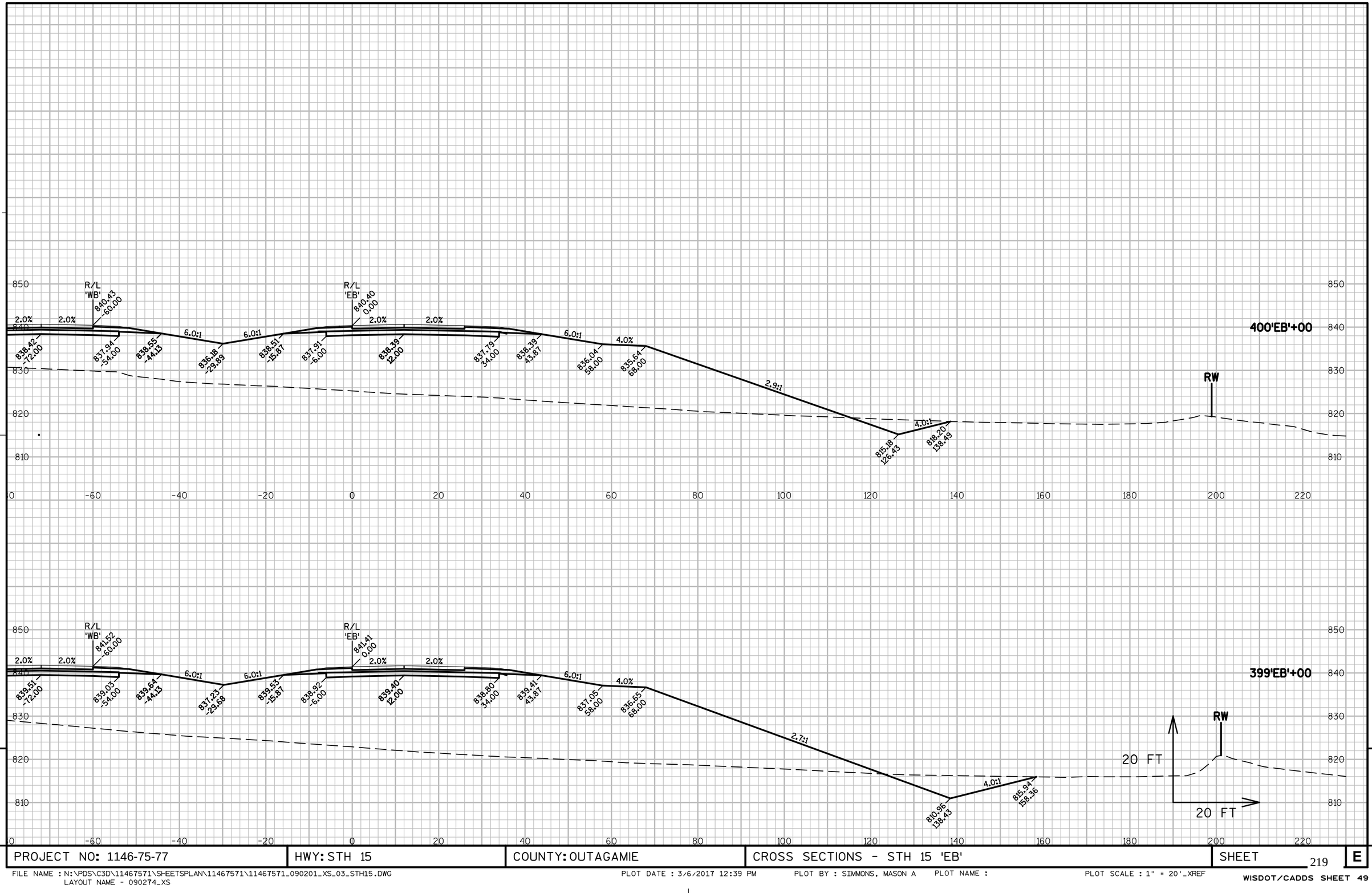
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 218	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090273_XS

PLOT DATE : 3/6/2017 12:39 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

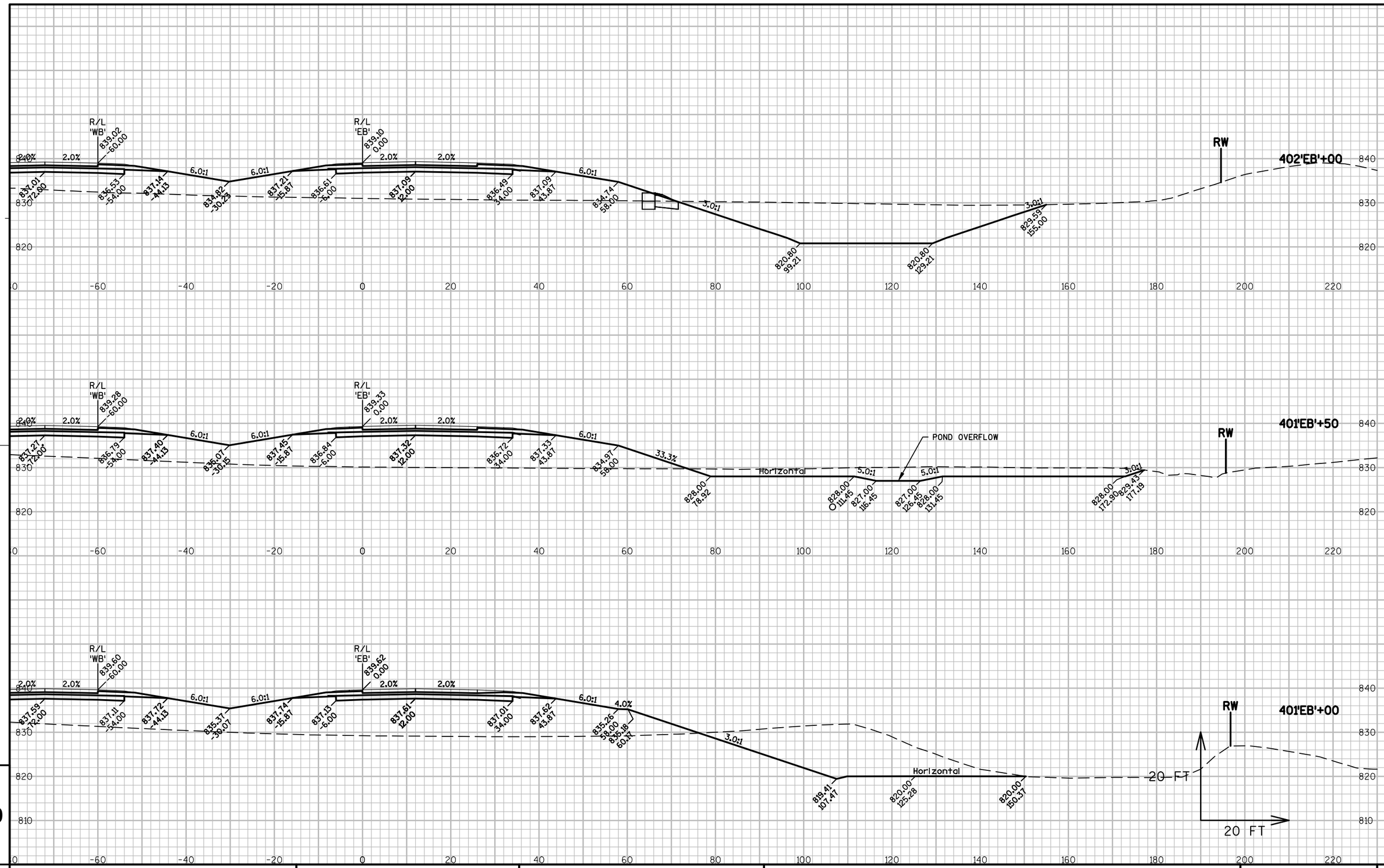


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 219	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090274_XS

PLOT DATE : 3/6/2017 12:39 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



9

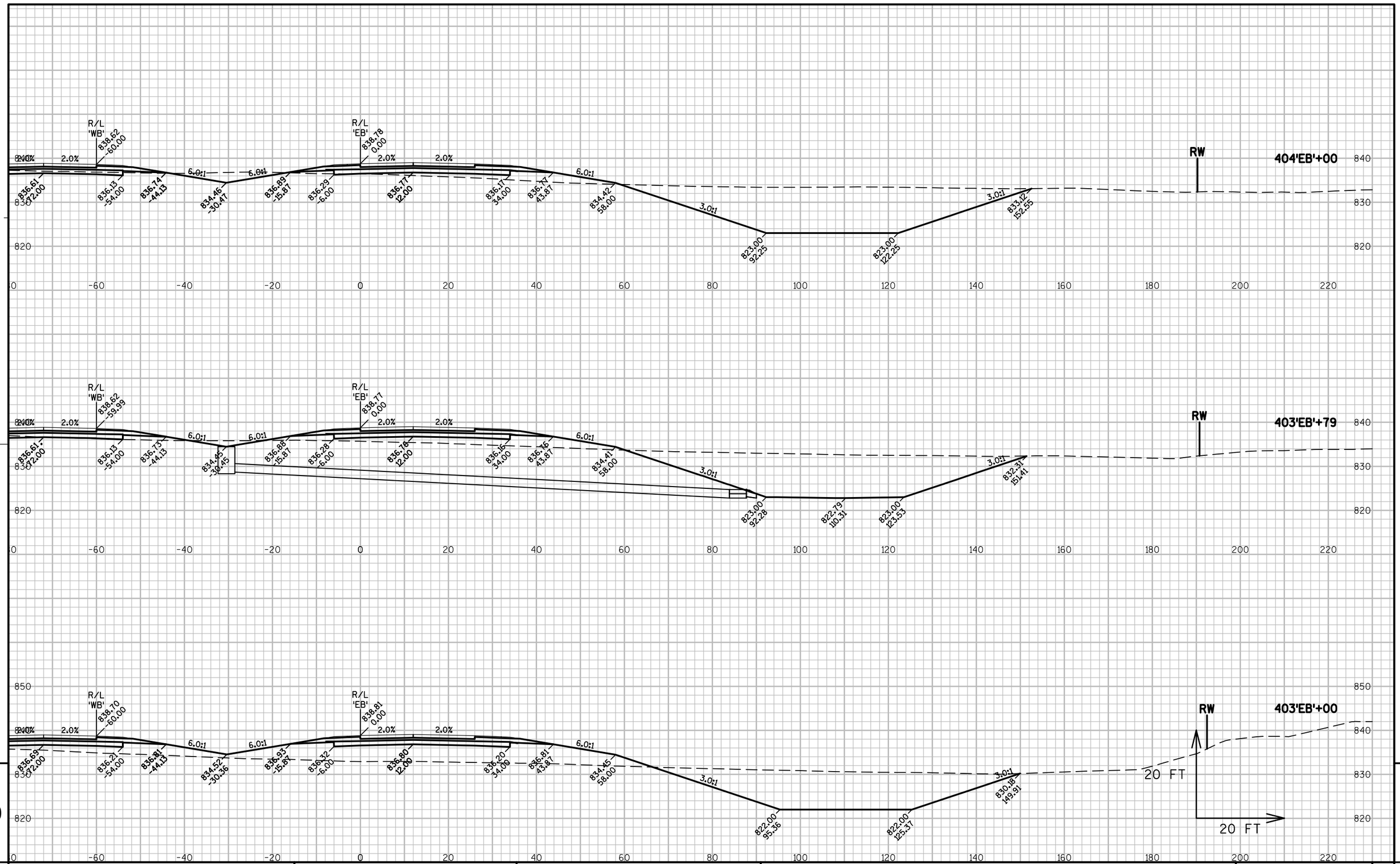
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 220	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090275_XS

PLOT DATE : 3/6/2017 12:40 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 221	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090276_XS

PLOT DATE : 3/6/2017 12:40 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

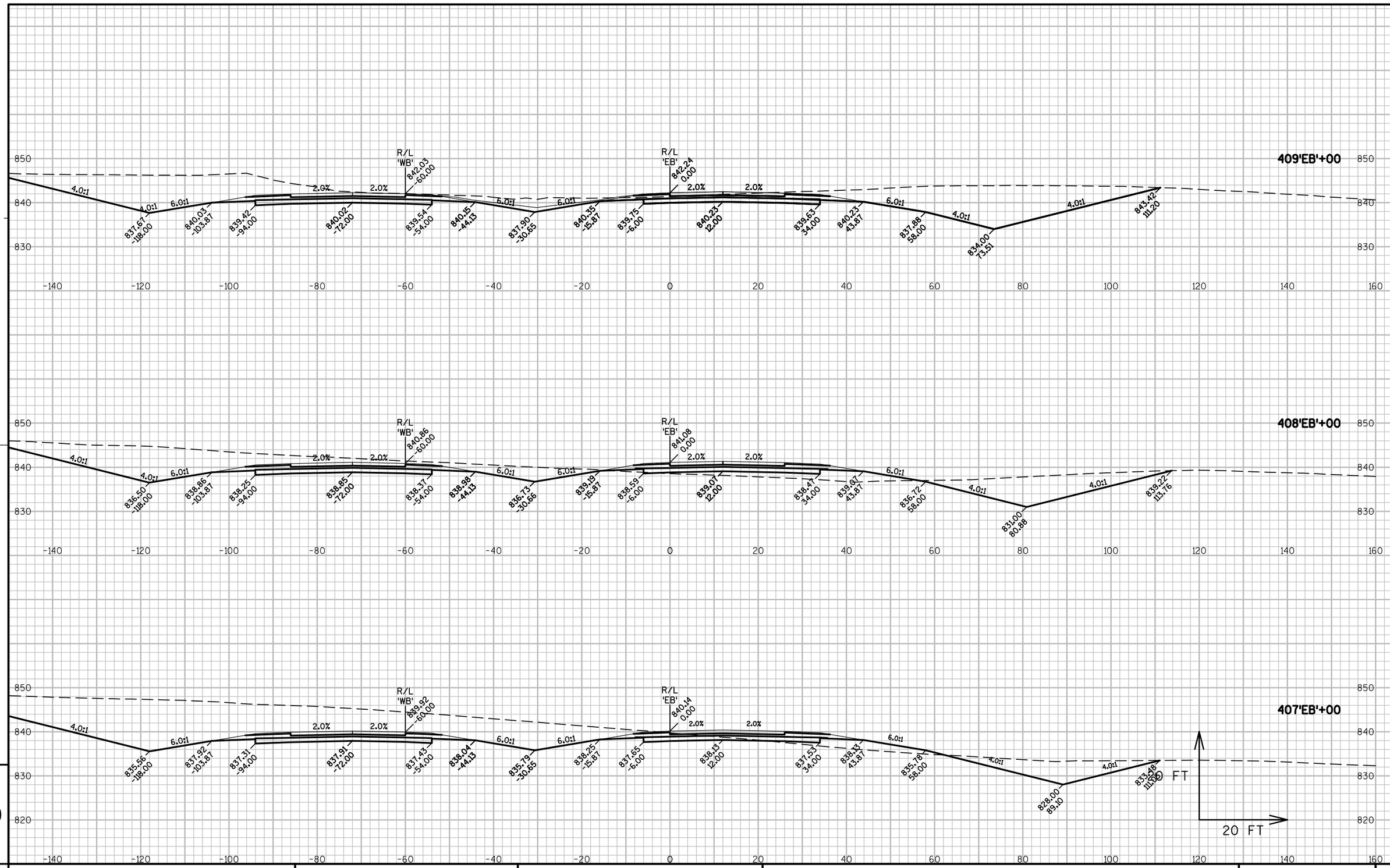
WISDOT/CADDS SHEET 49

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 222	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090277_XS

PLOT DATE : 3/6/2017 12:40 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

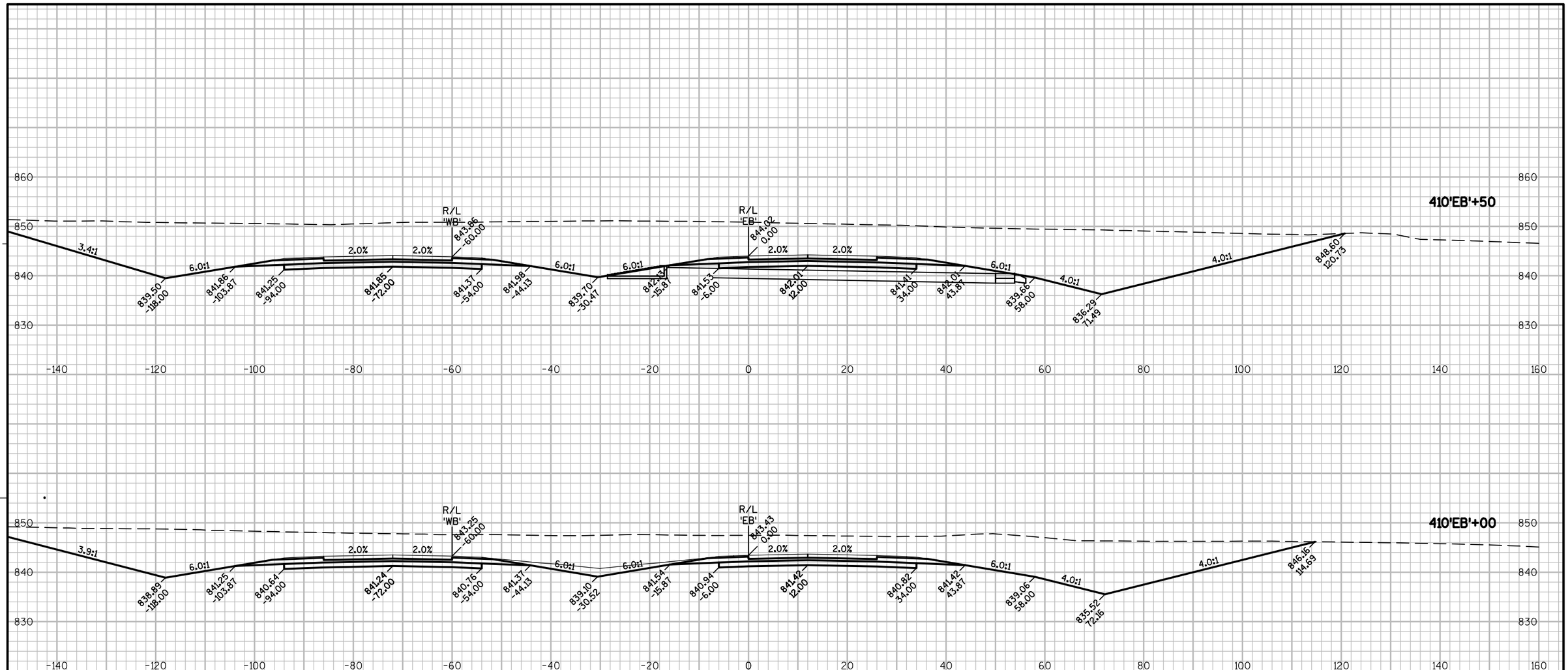
WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 223	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090280_XS

PLOT DATE : 3/6/2017 12:50 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

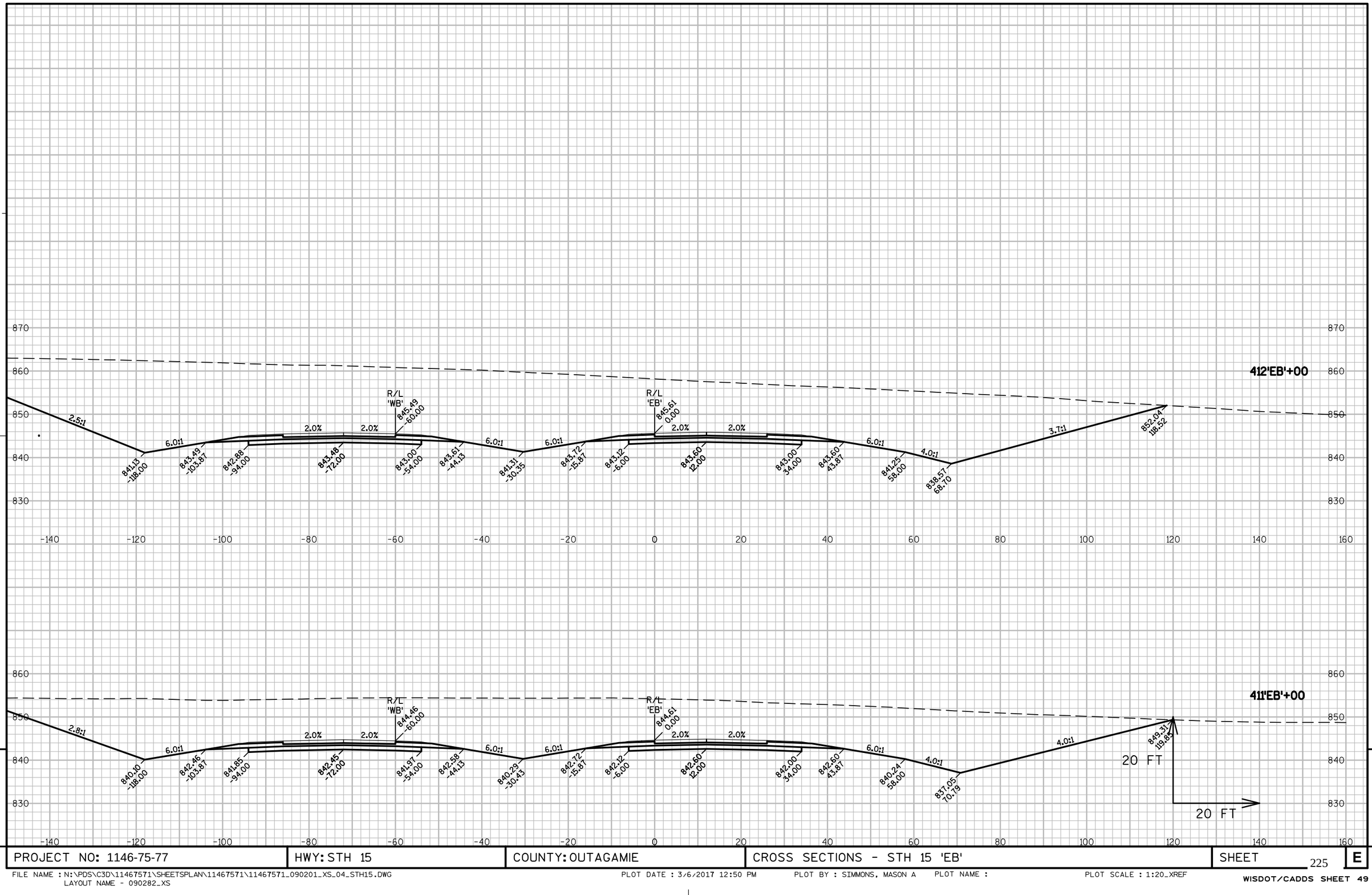


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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 224	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090281_XS
PLOT DATE : 3/6/2017 12:50 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49

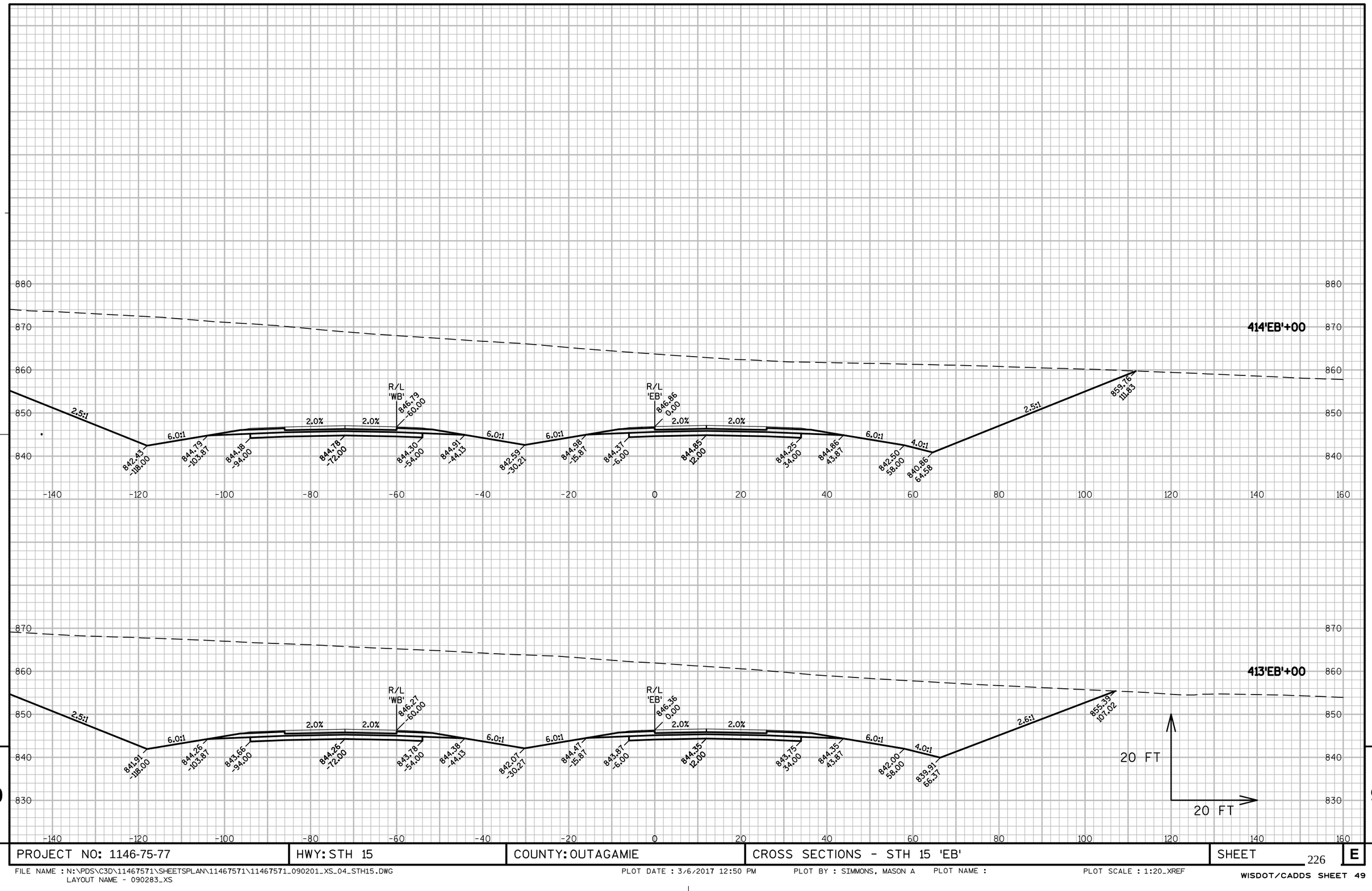


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9

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 225	E

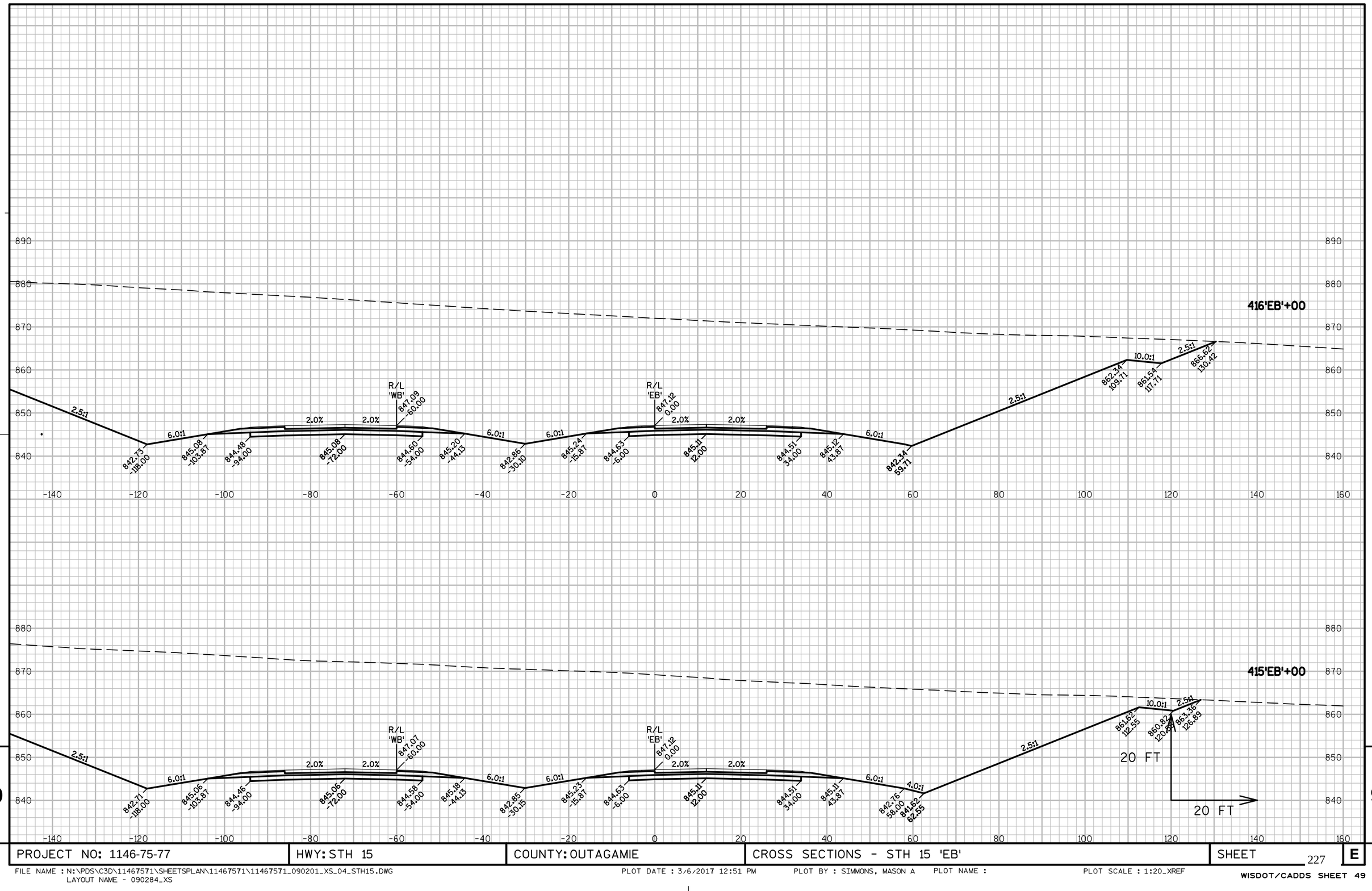
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090282_XS
PLOT DATE : 3/6/2017 12:50 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 226	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090283_XS

PLOT DATE : 3/6/2017 12:50 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



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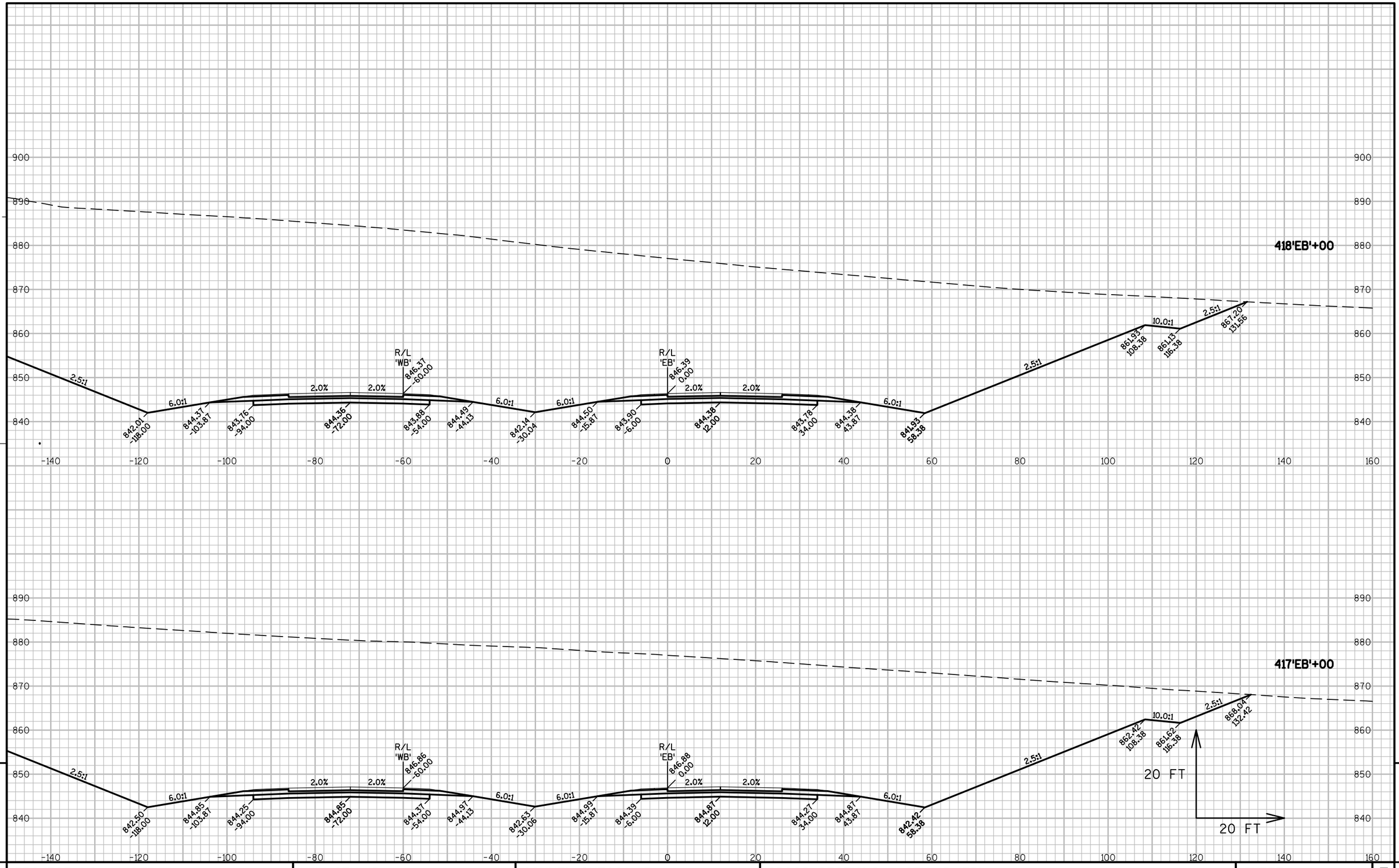
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 227	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090284_XS

PLOT DATE : 3/6/2017 12:51 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

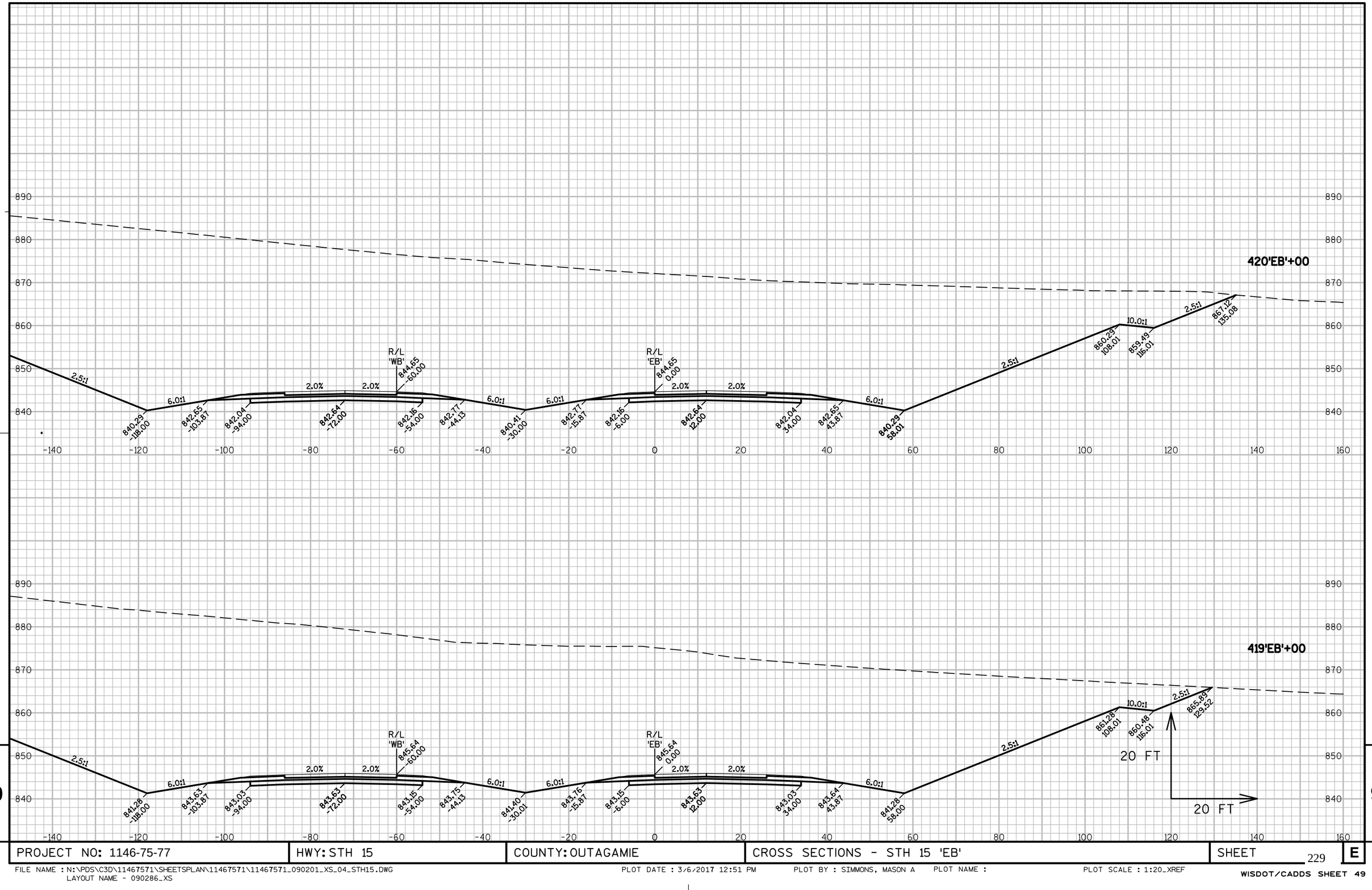


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 228 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090285_XS

PLOT DATE : 3/6/2017 12:51 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



9

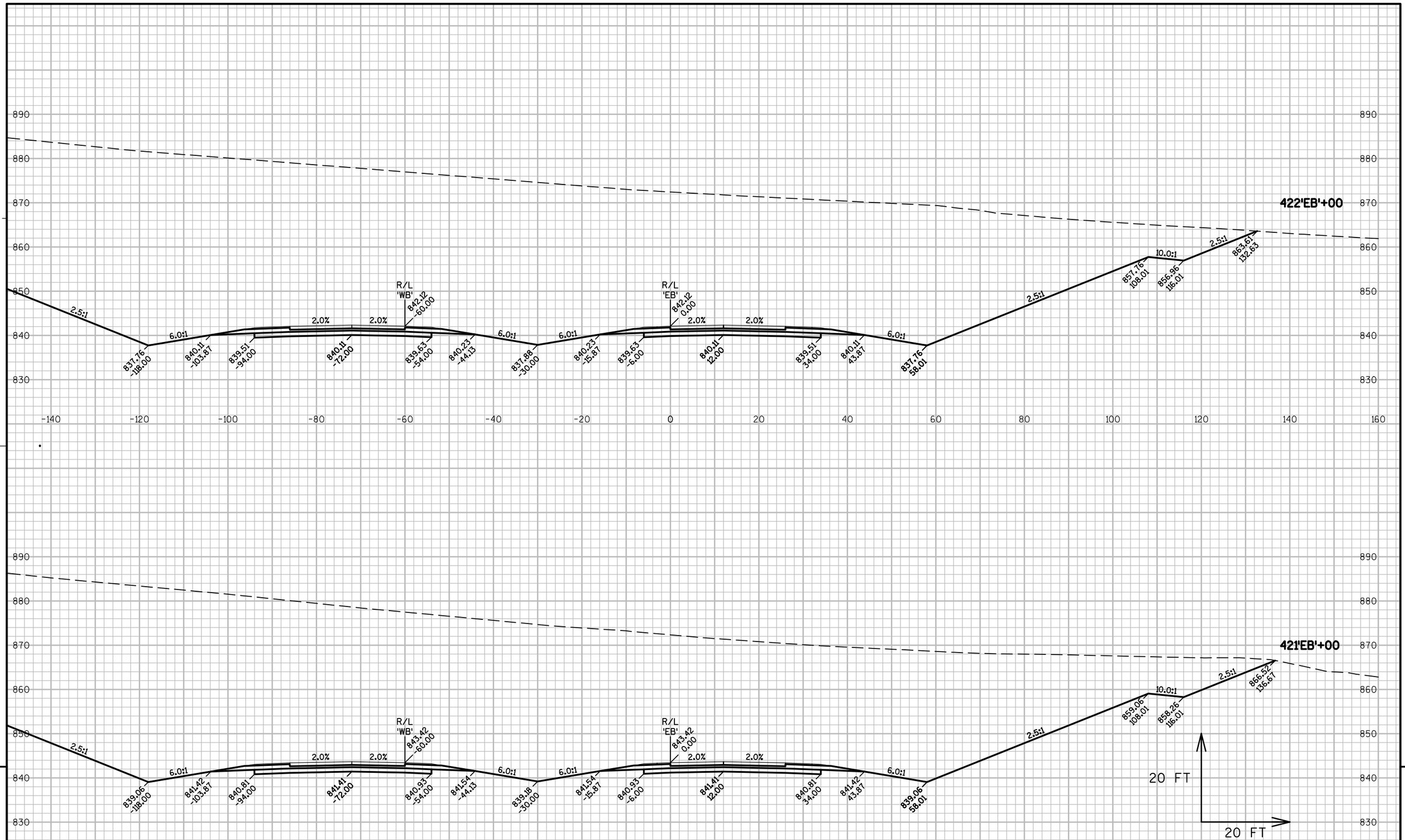
PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 229	E

9

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090286_XS

PLOT DATE : 3/6/2017 12:51 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



9

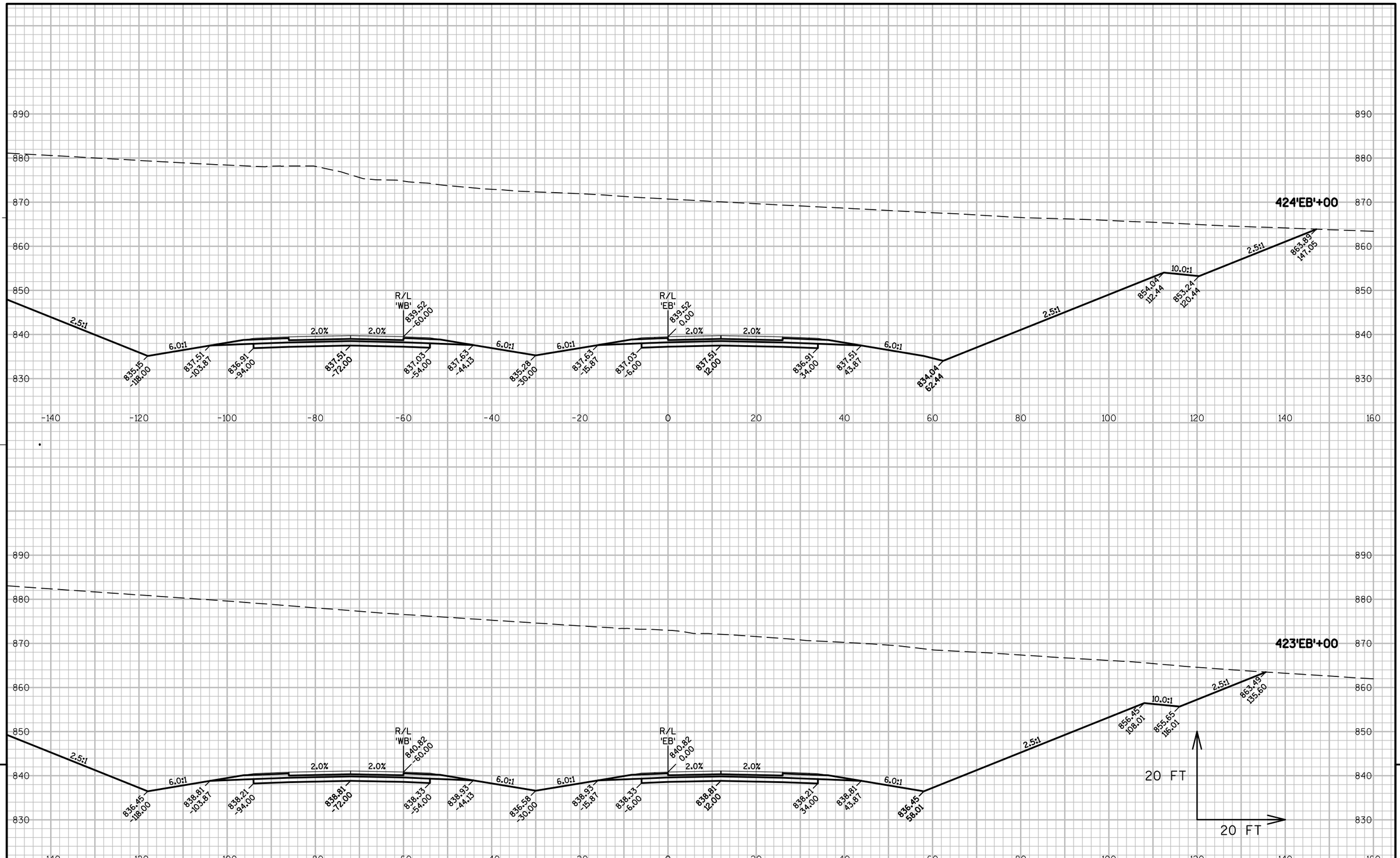
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 230	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090287_XS

PLOT DATE : 3/6/2017 12:51 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



9

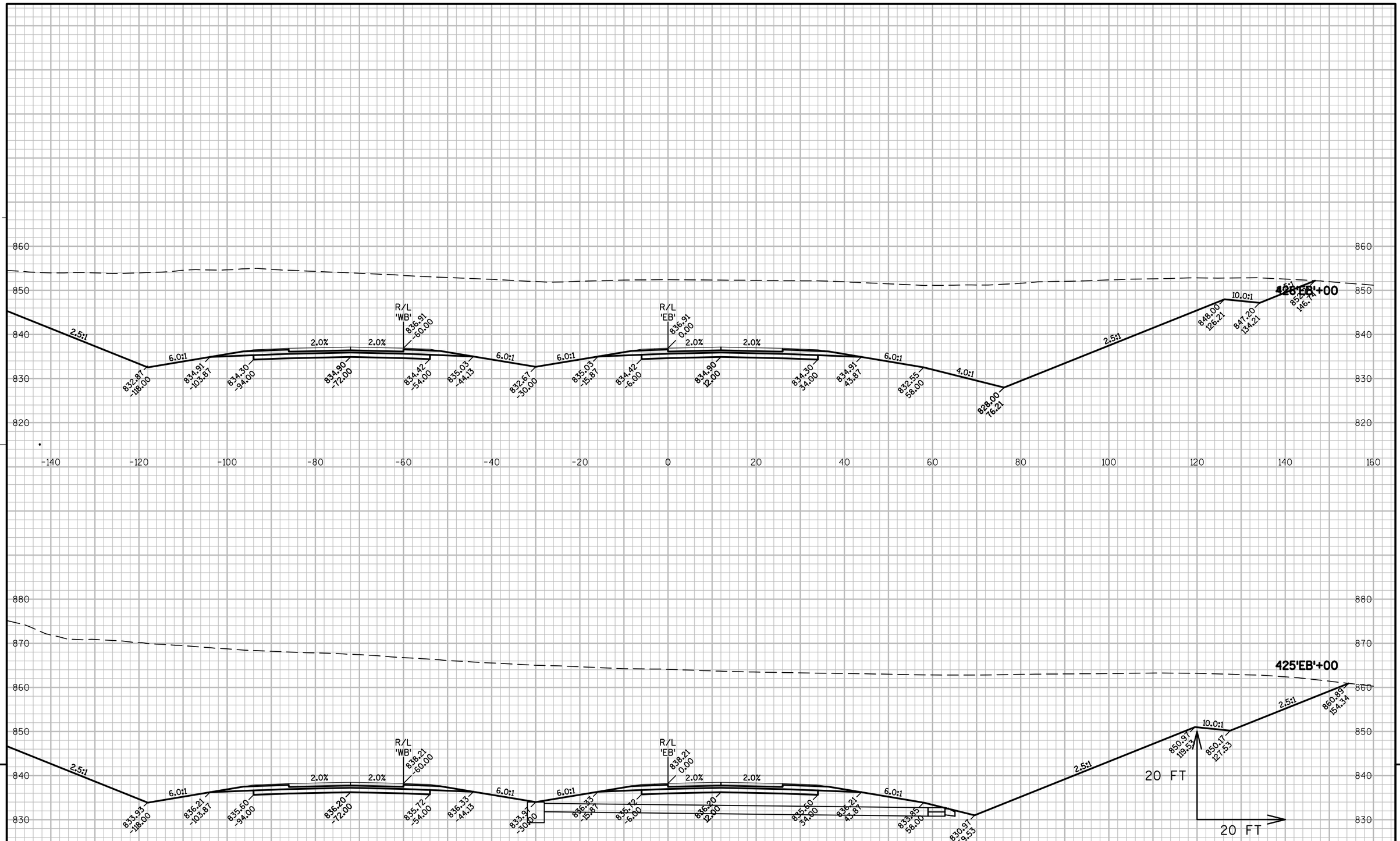
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 231 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090288_XS

PLOT DATE : 3/6/2017 12:51 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



9

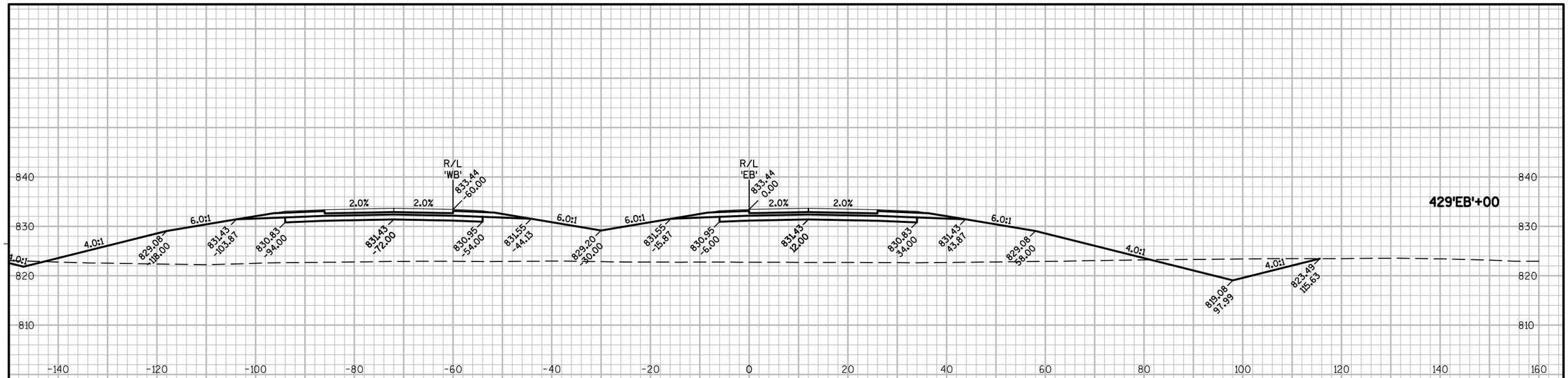
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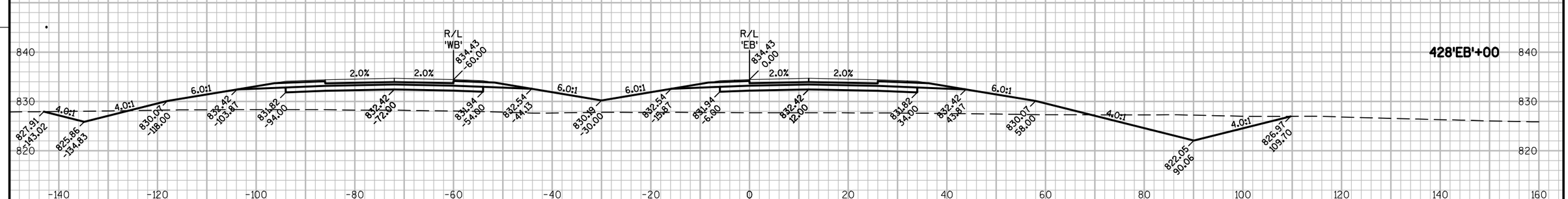
PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 232 E

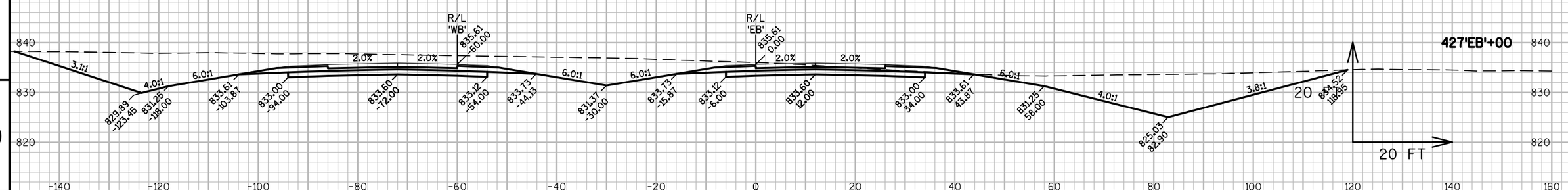
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090289_XS

PLOT DATE : 3/6/2017 12:51 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49







9

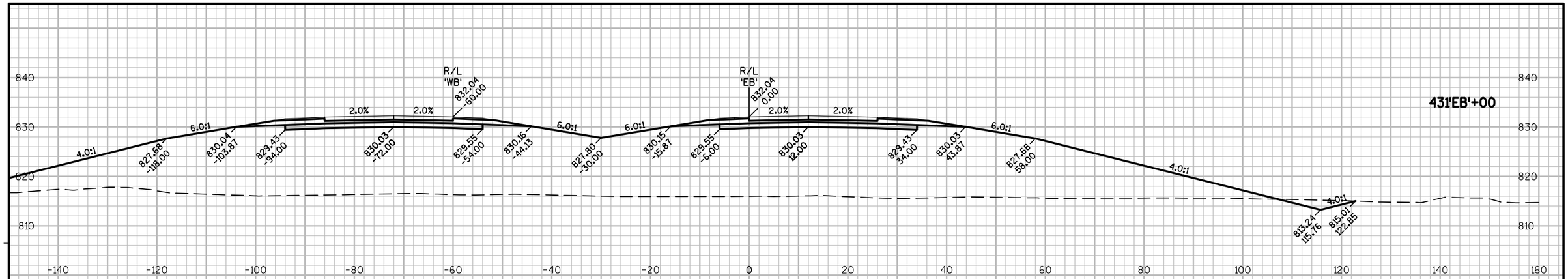
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 233	E

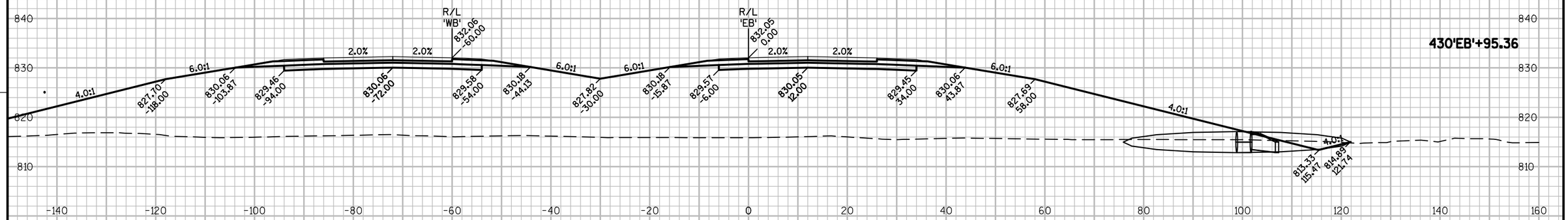
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090290_XS

PLOT DATE : 3/6/2017 12:51 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

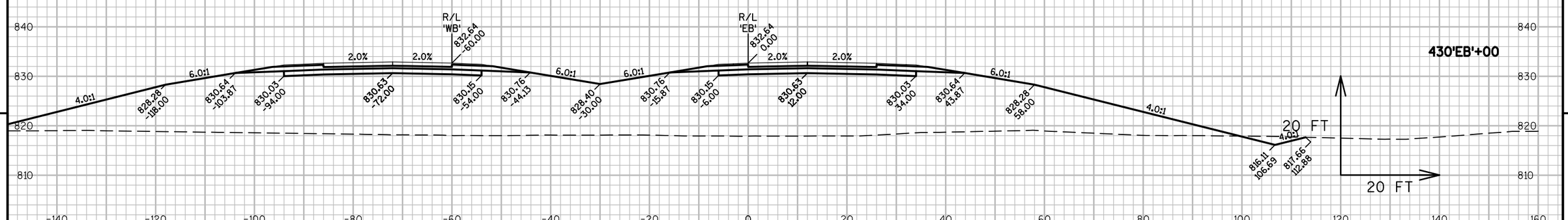
WISDOT/CADDS SHEET 49



431'EB'+00



430'EB'+95.36



430'EB'+00

9

9

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 234	E

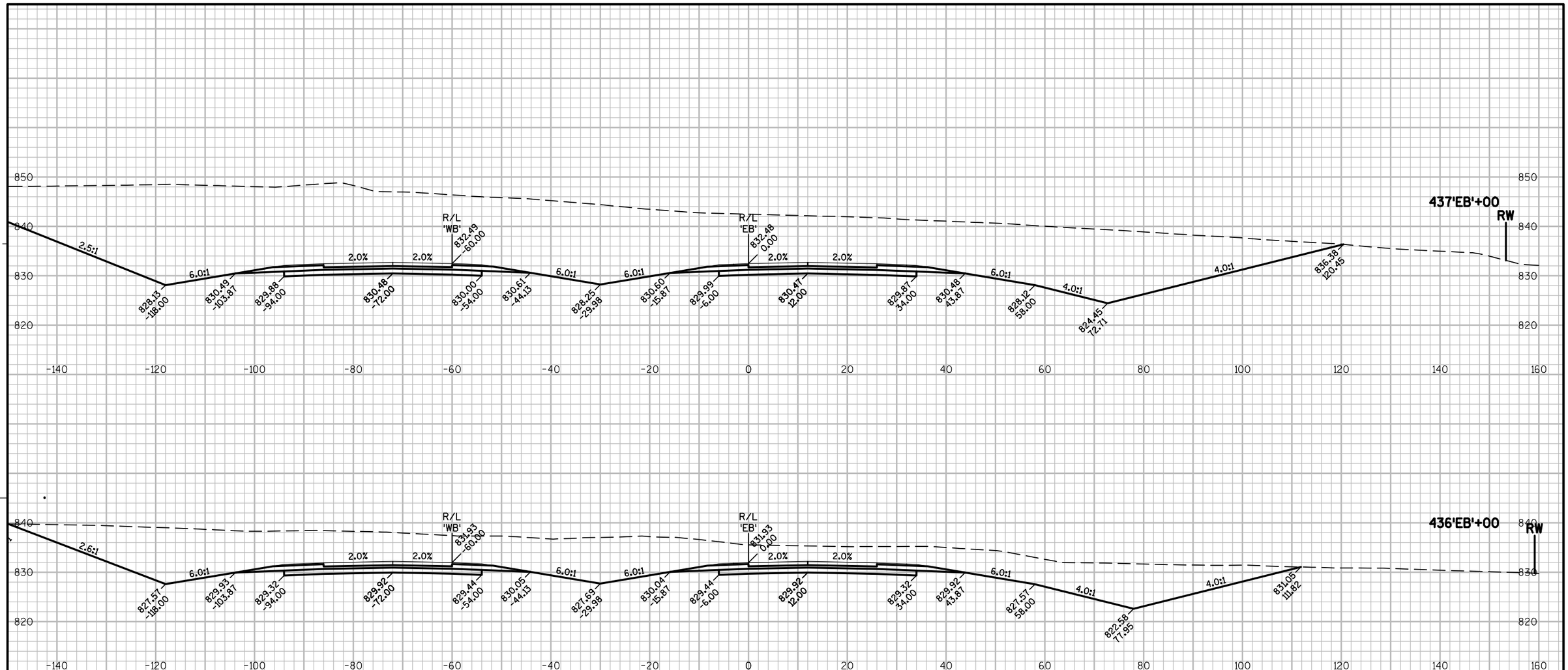
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 235	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090292_XS
PLOT DATE : 3/6/2017 12:52 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49

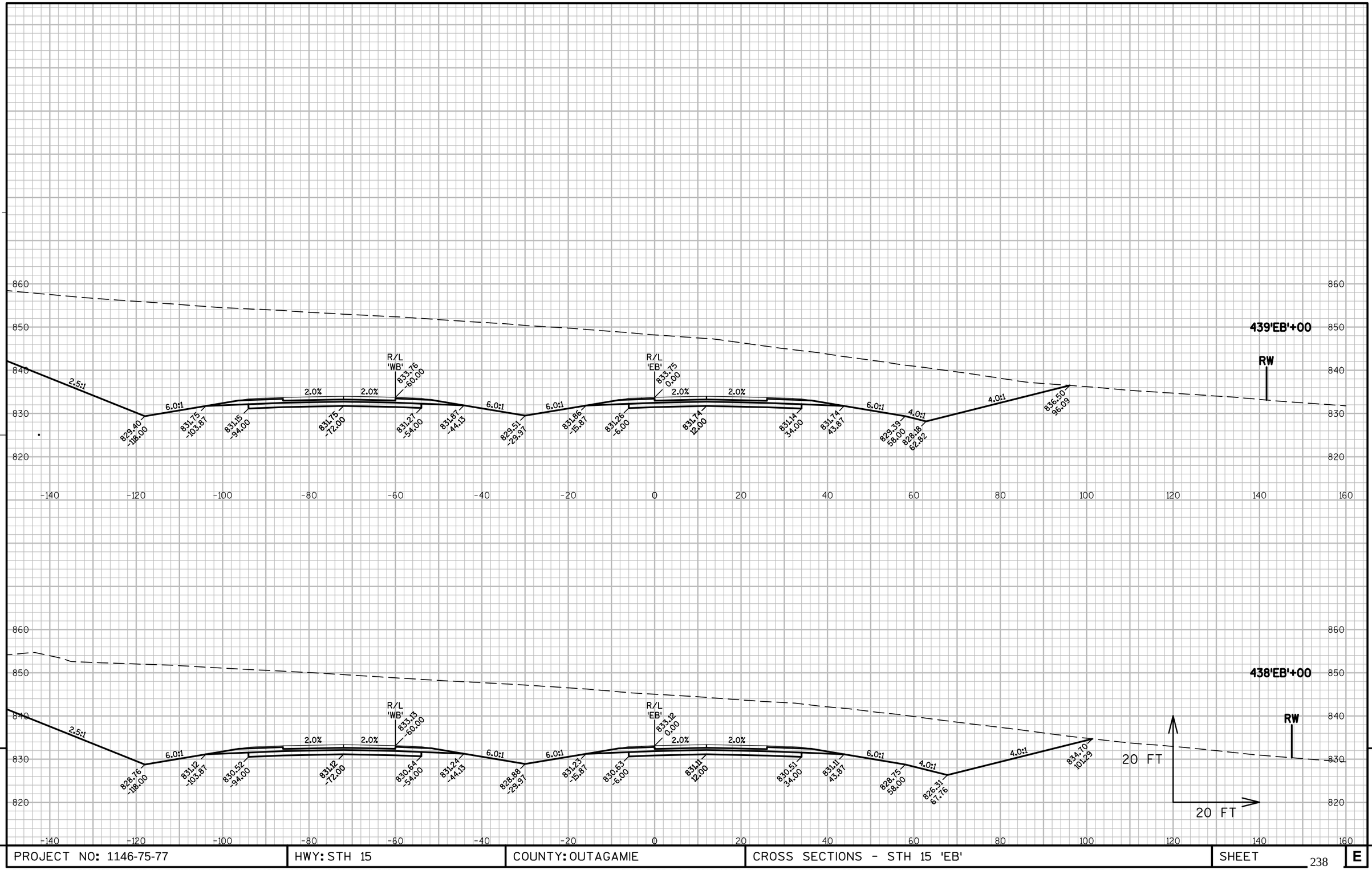
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 236	E



PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 237 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090294_XS
PLOT DATE : 3/6/2017 12:52 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49



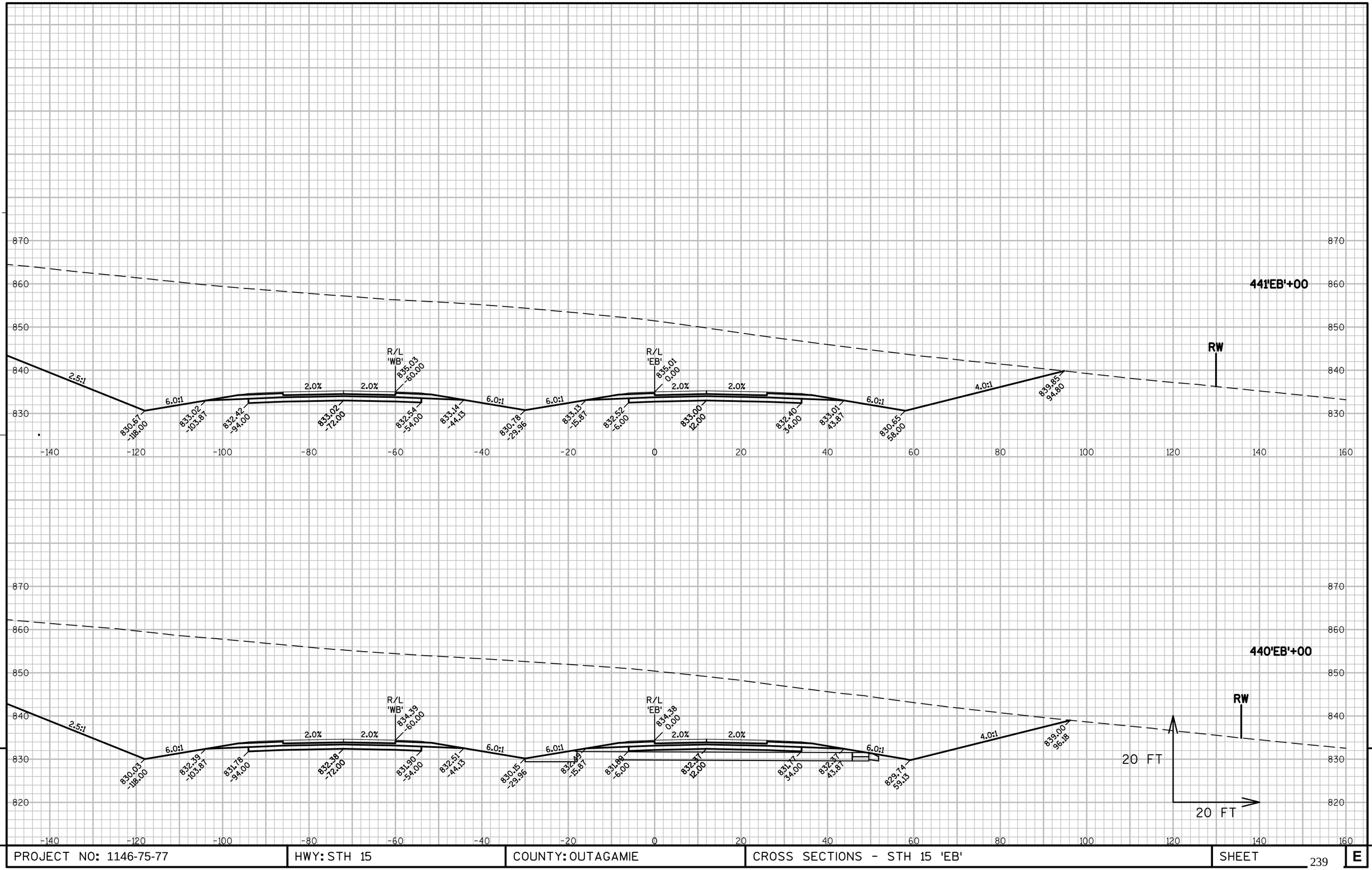
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 238	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090295_XS

PLOT DATE : 3/6/2017 12:52 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



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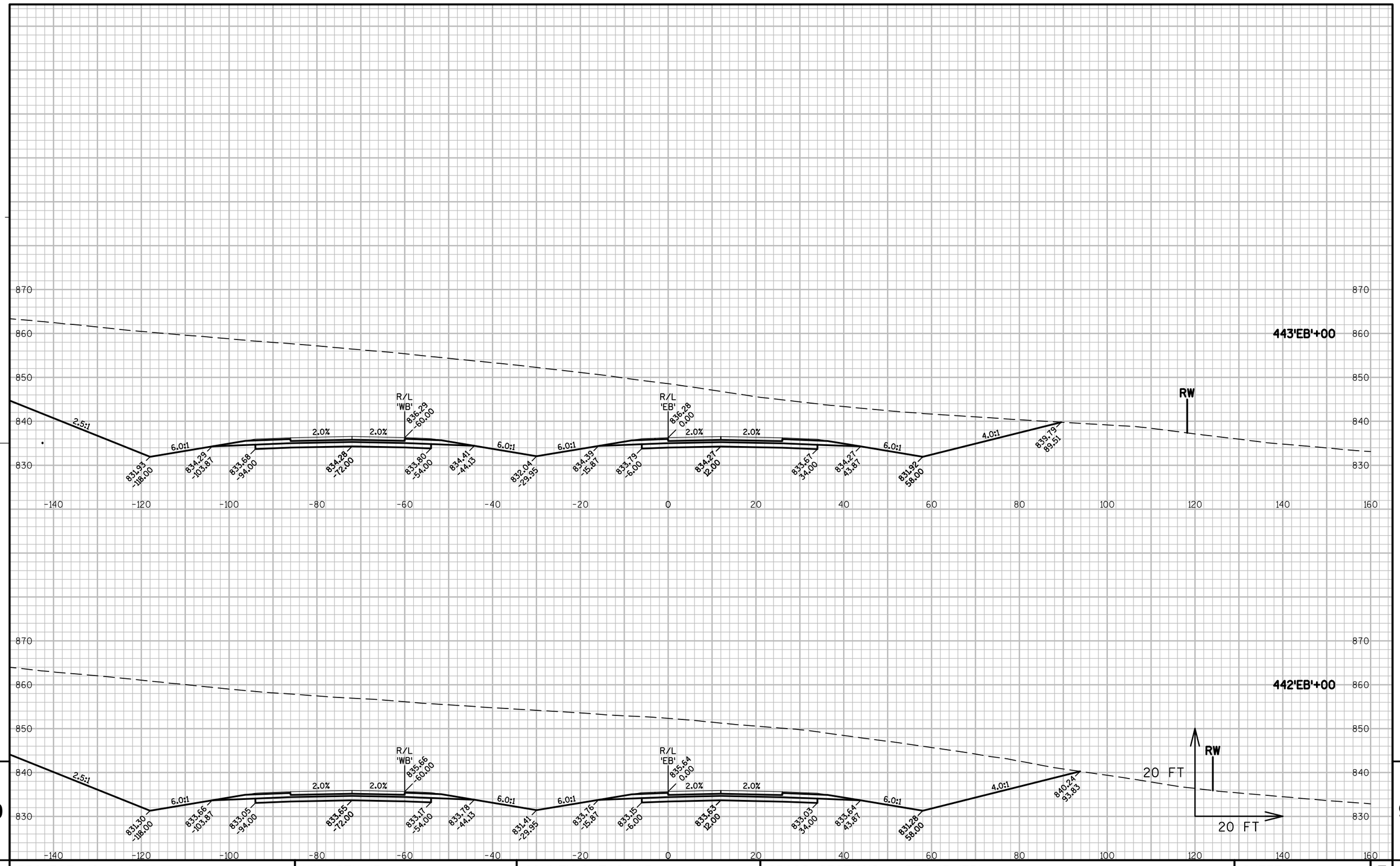
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 239	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090296_XS

PLOT DATE : 3/6/2017 12:52 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

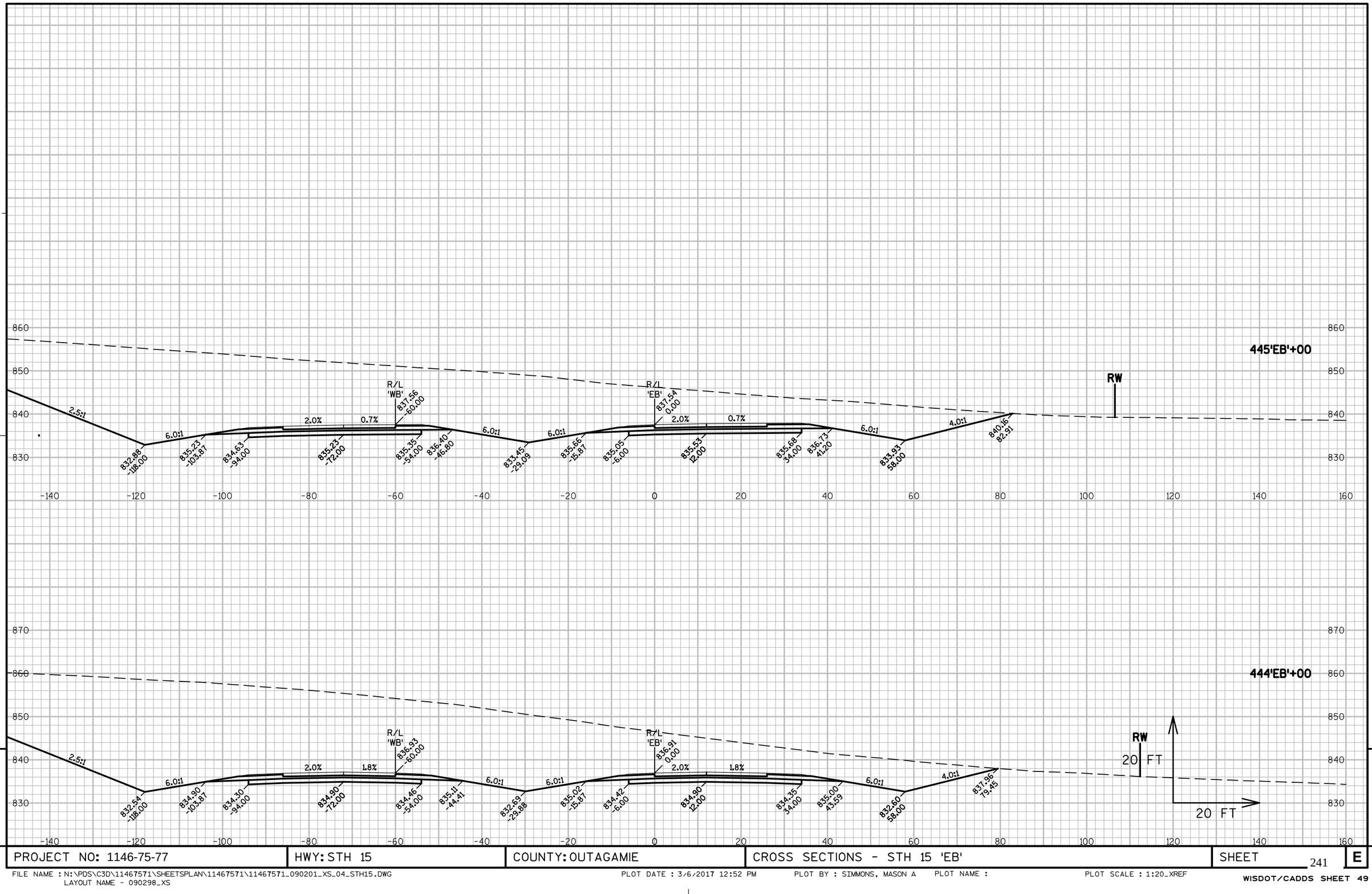


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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 240	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090297_XS

PLOT DATE : 3/6/2017 12:52 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



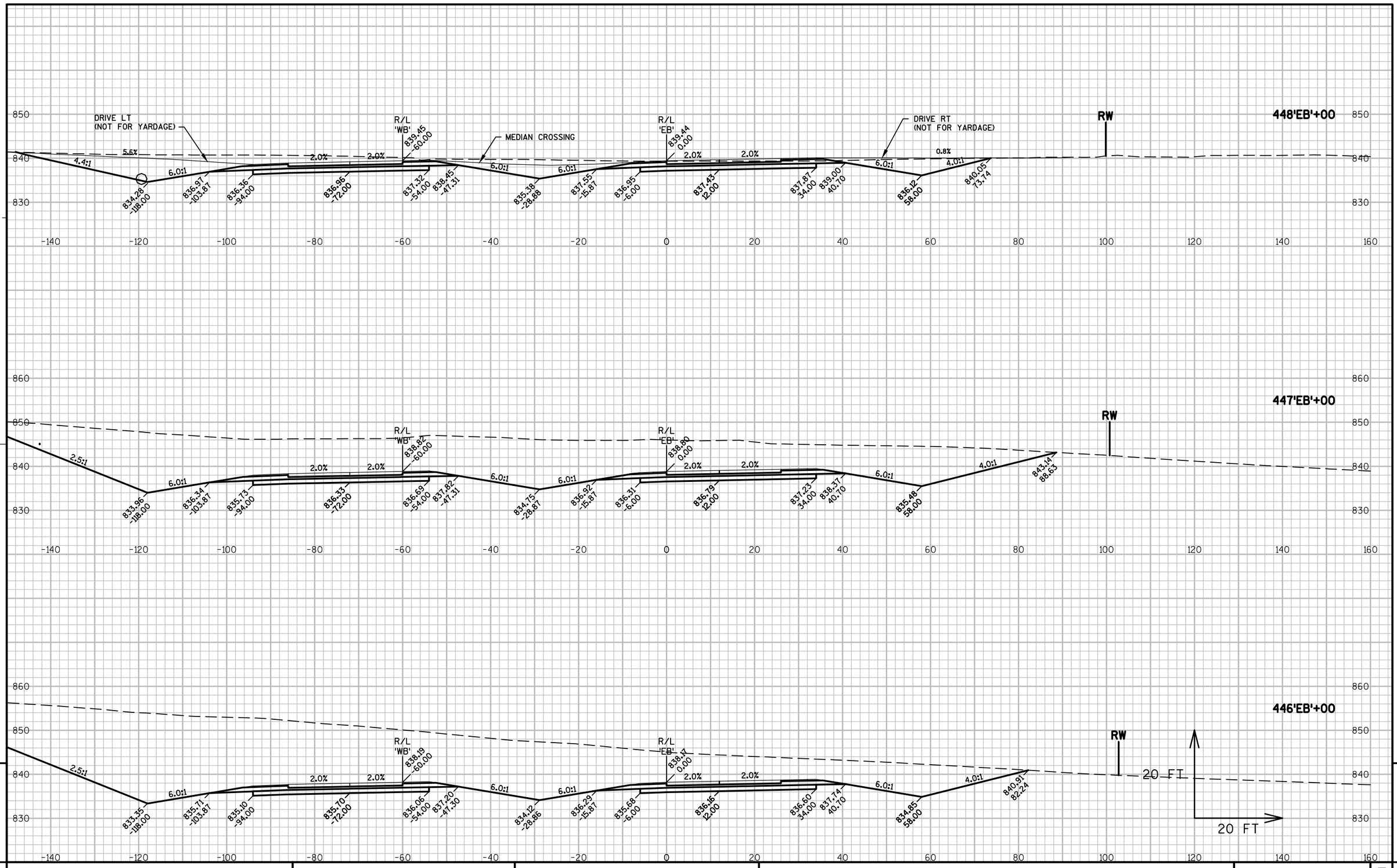
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 241	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090298_XS

PLOT DATE : 3/6/2017 12:52 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

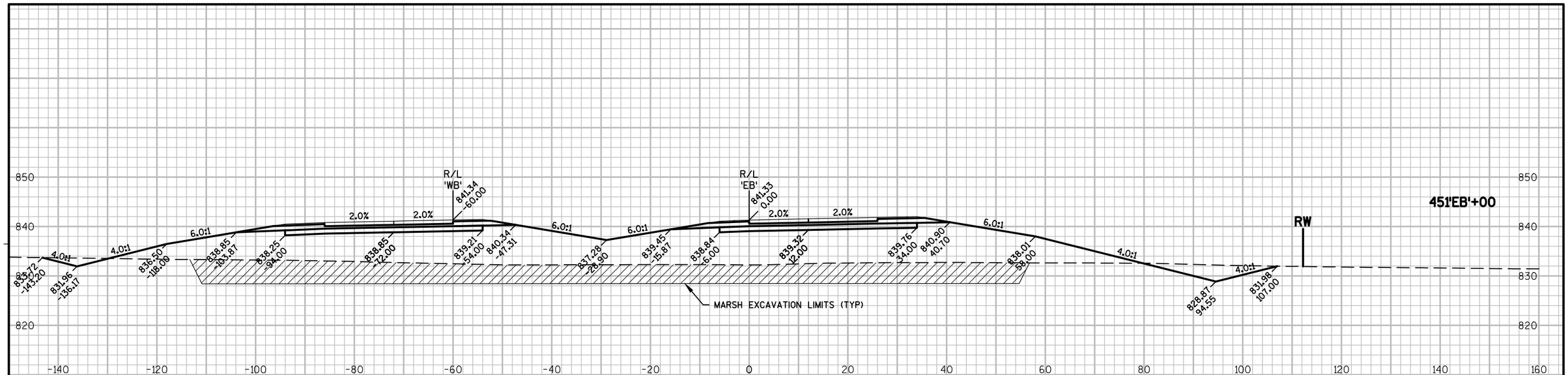


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 242	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090299_XS

PLOT DATE : 3/6/2017 12:53 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

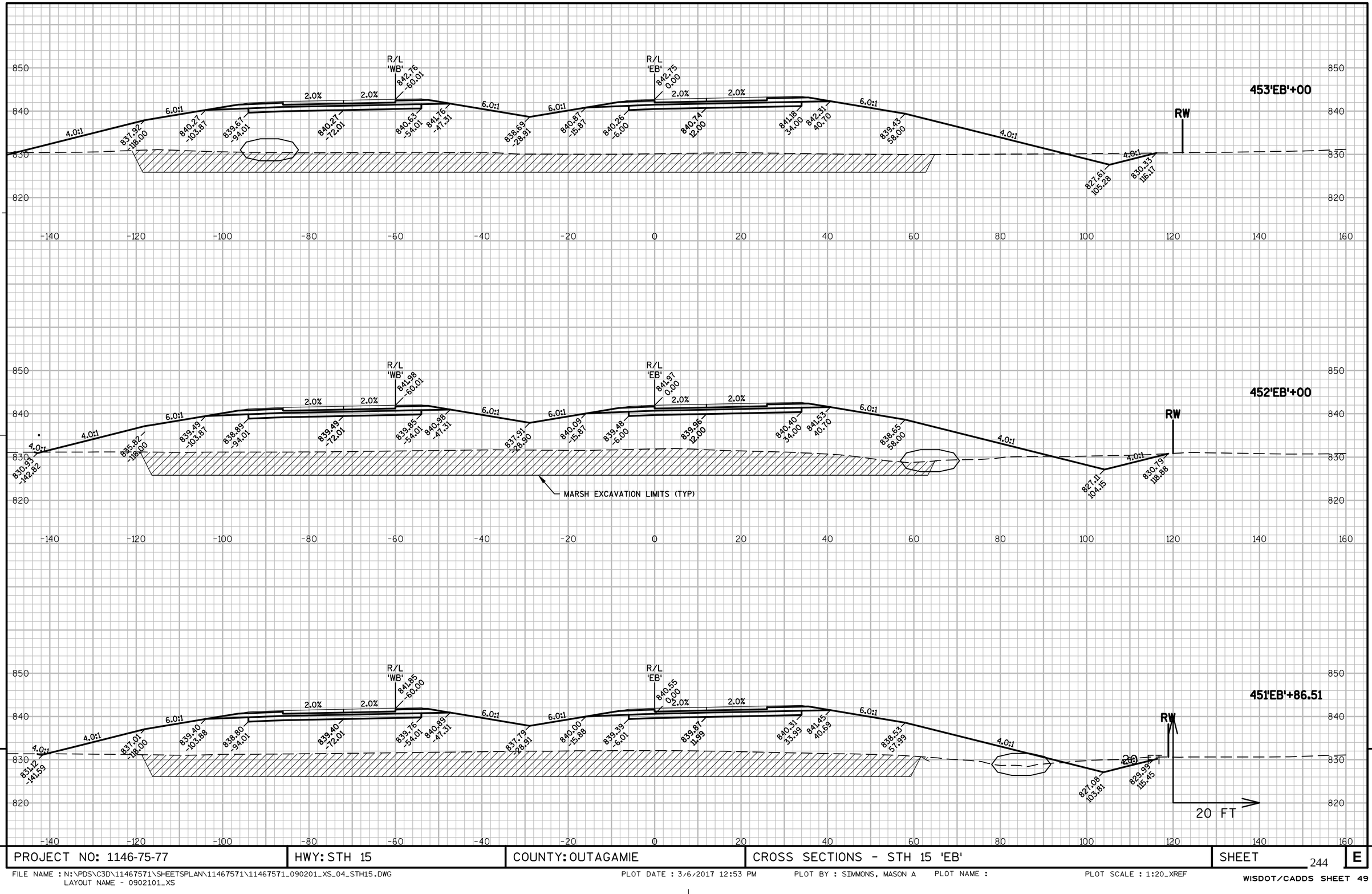


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 243 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 0902100_XS

PLOT DATE : 3/6/2017 12:53 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

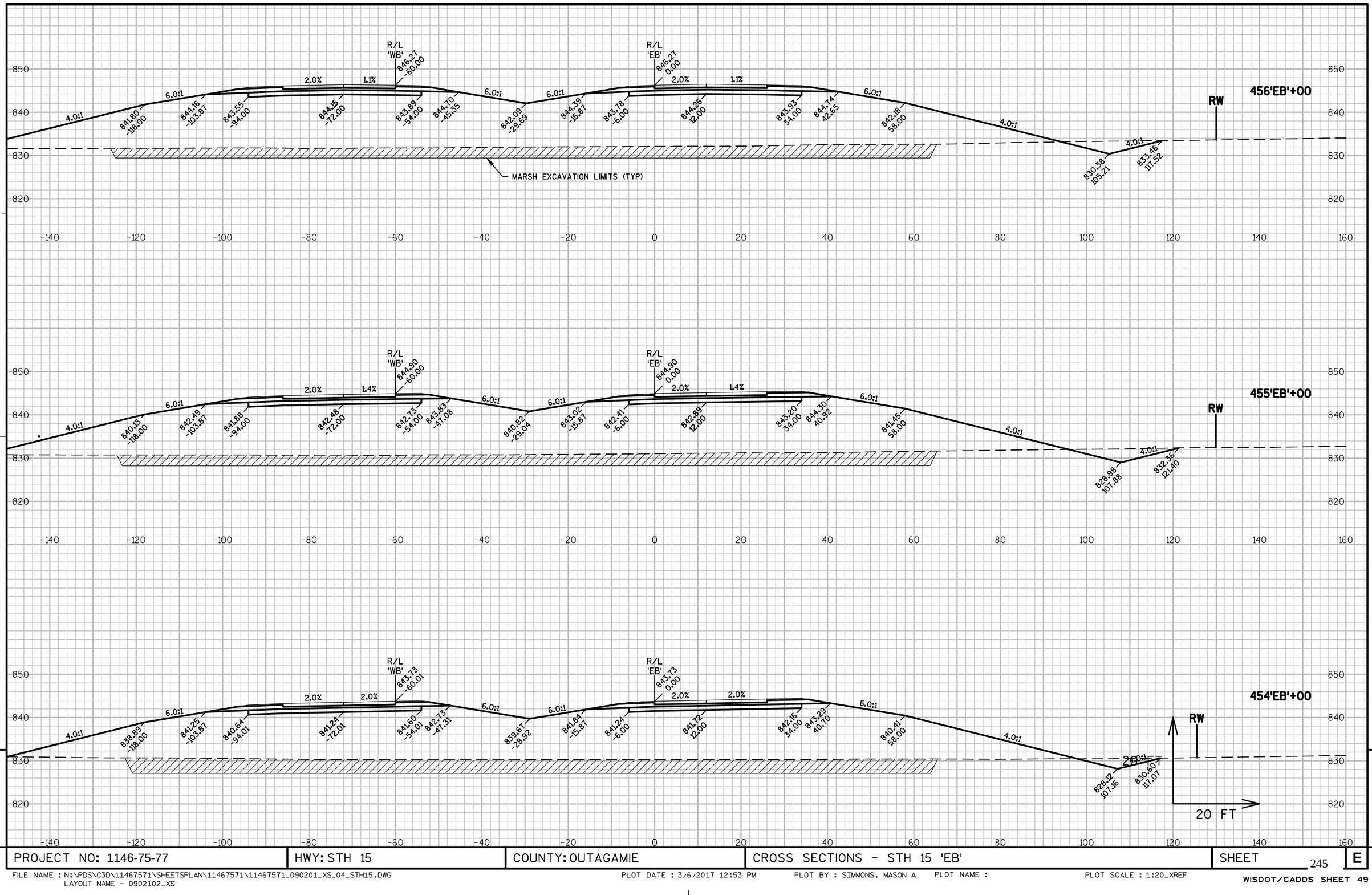
WISDOT/CADDS SHEET 49



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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 244 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 0902101_XS
PLOT DATE : 3/6/2017 12:53 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49

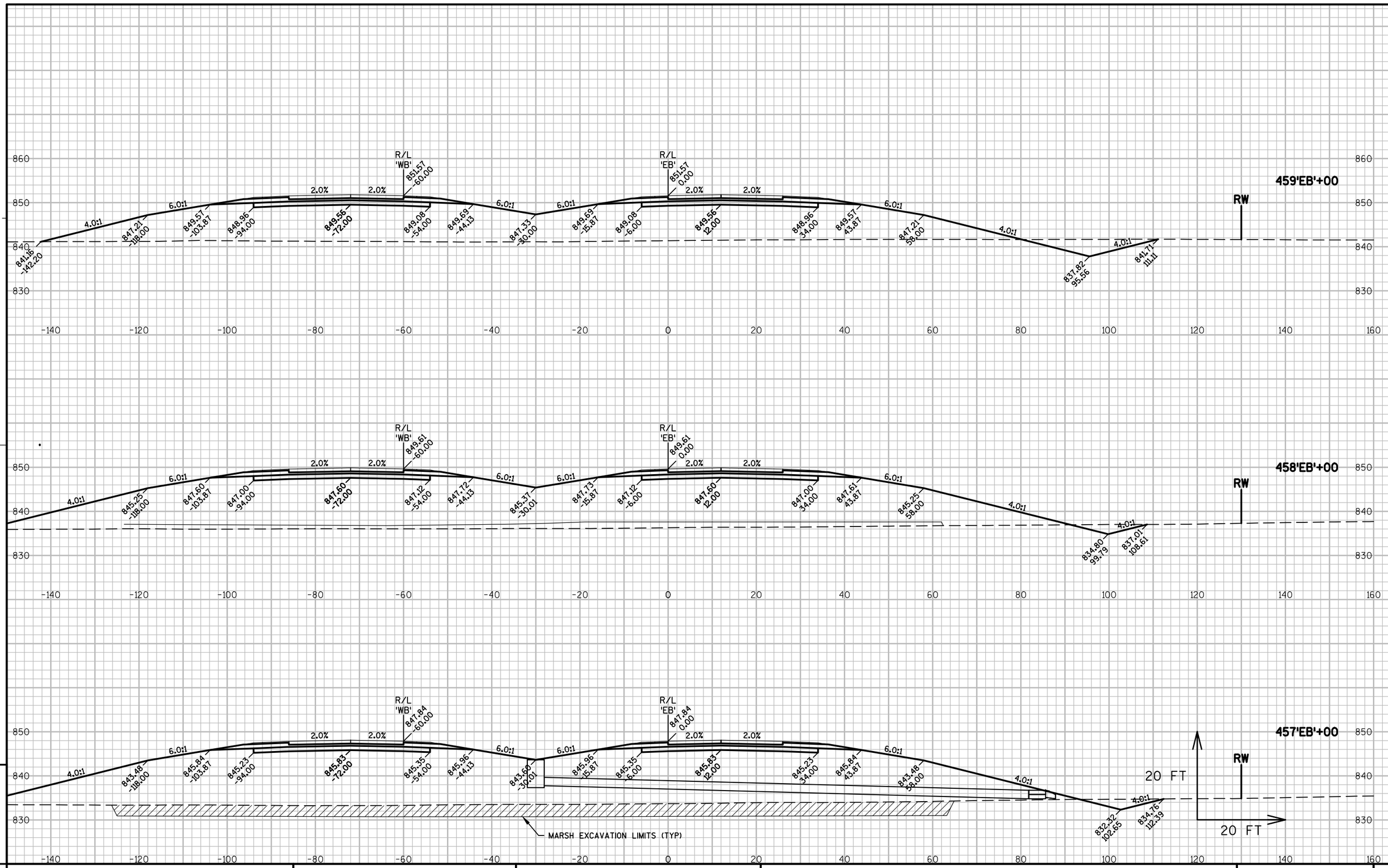


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 245	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 0902102_XS

PLOT DATE : 3/6/2017 12:53 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

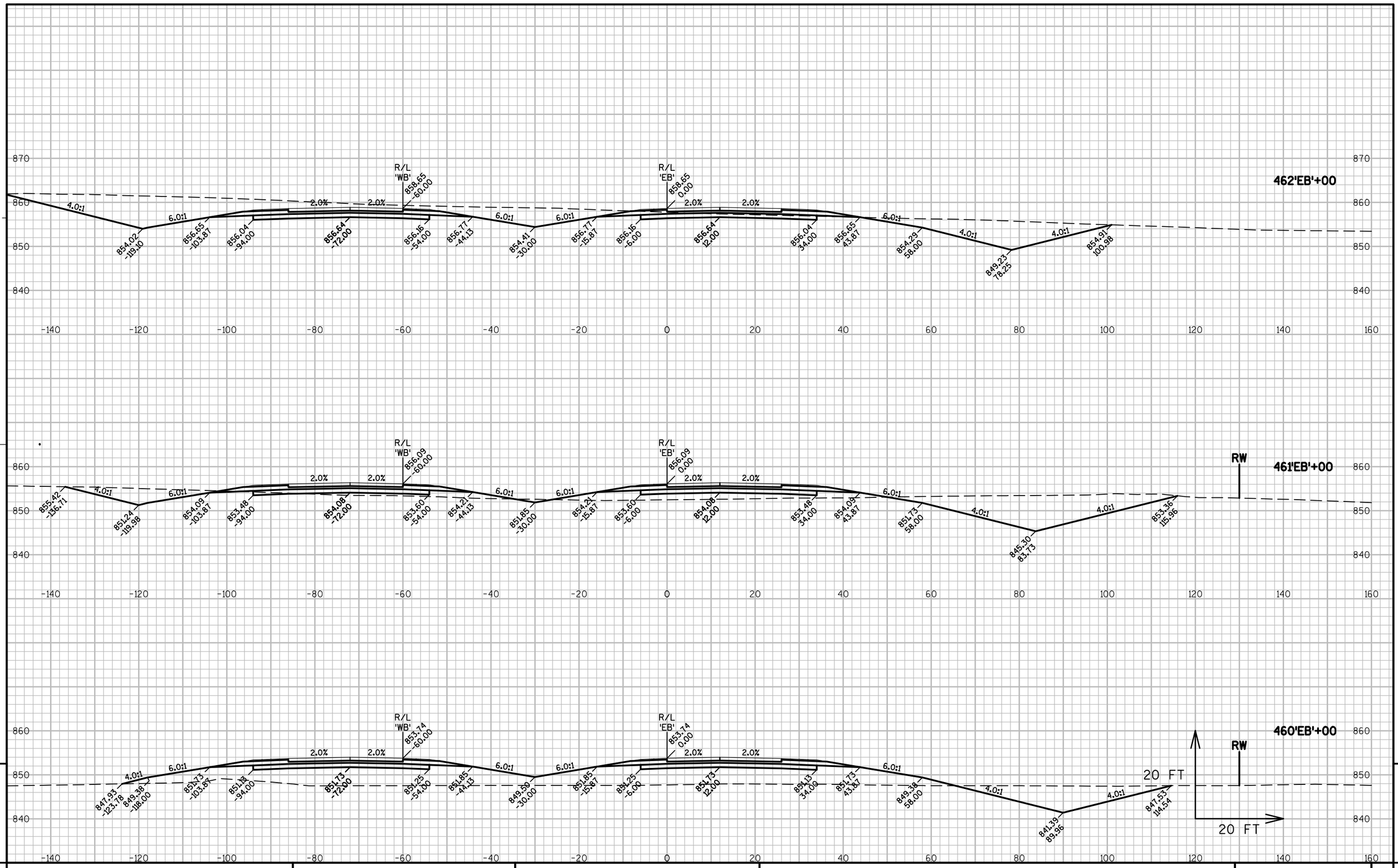


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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 246	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 0902103_XS
PLOT DATE : 3/6/2017 12:53 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49



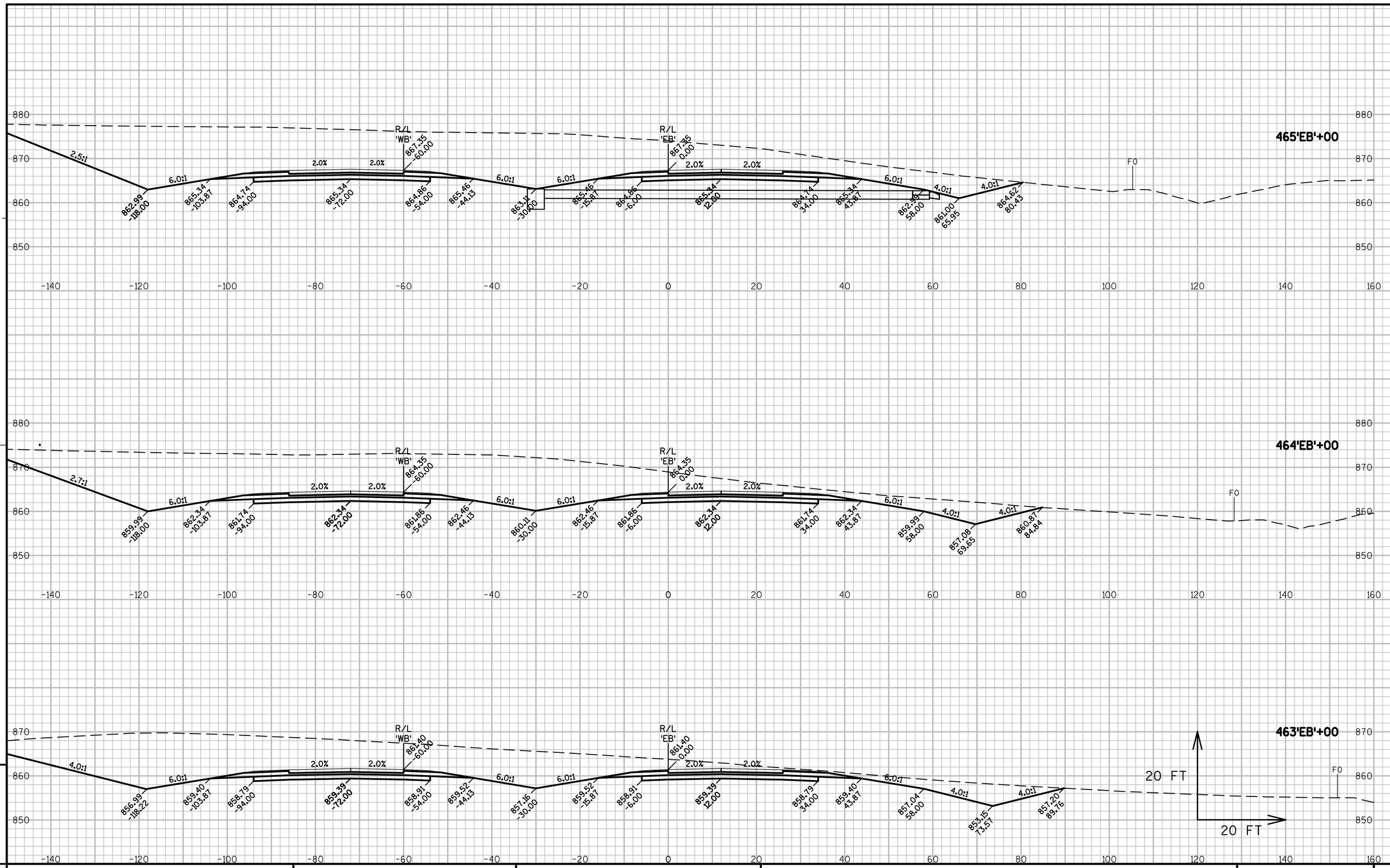
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 247	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 0902104_XS

PLOT DATE : 3/6/2017 12:53 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

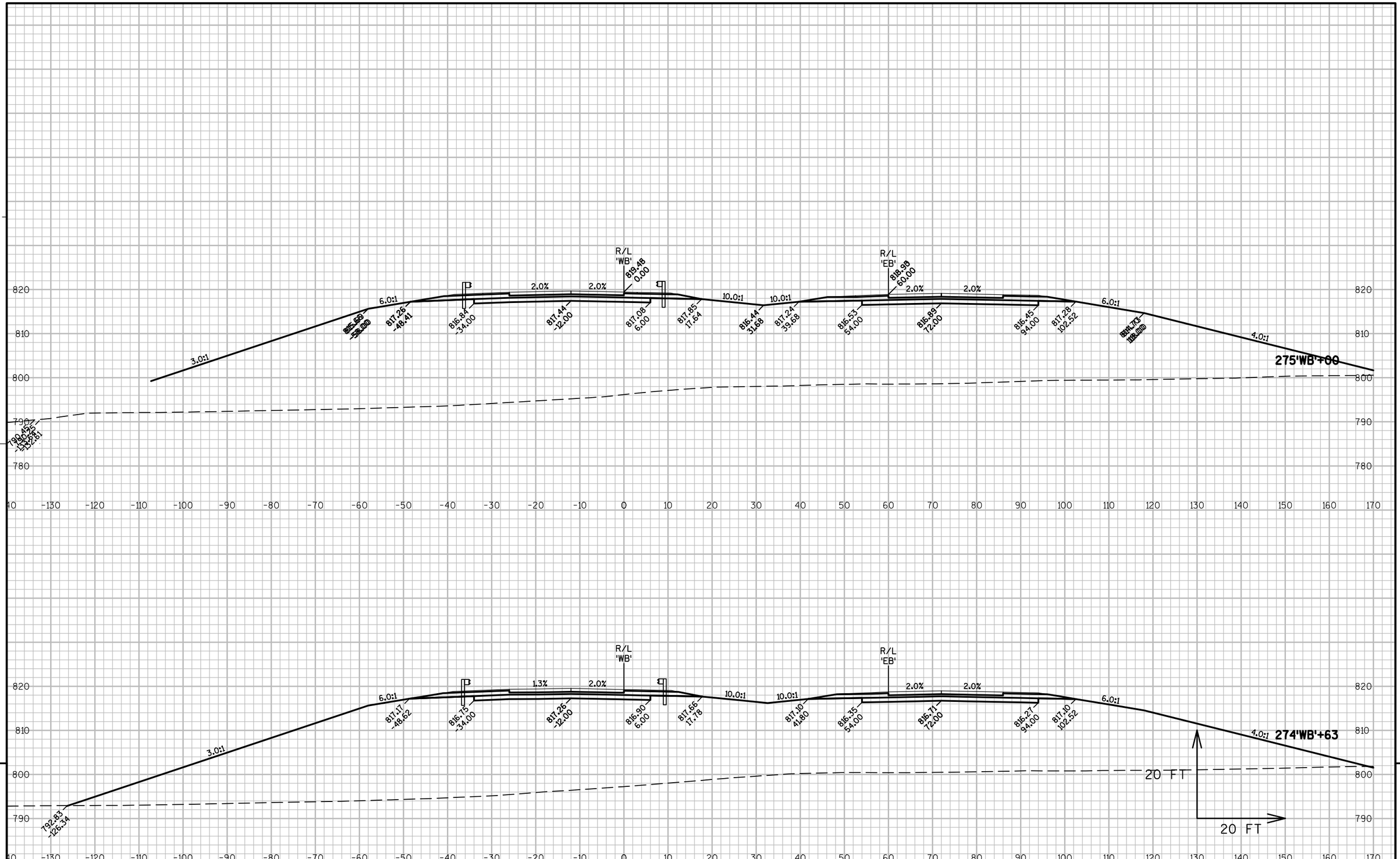


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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 248	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 0902105_XS
PLOT DATE : 3/6/2017 12:53 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

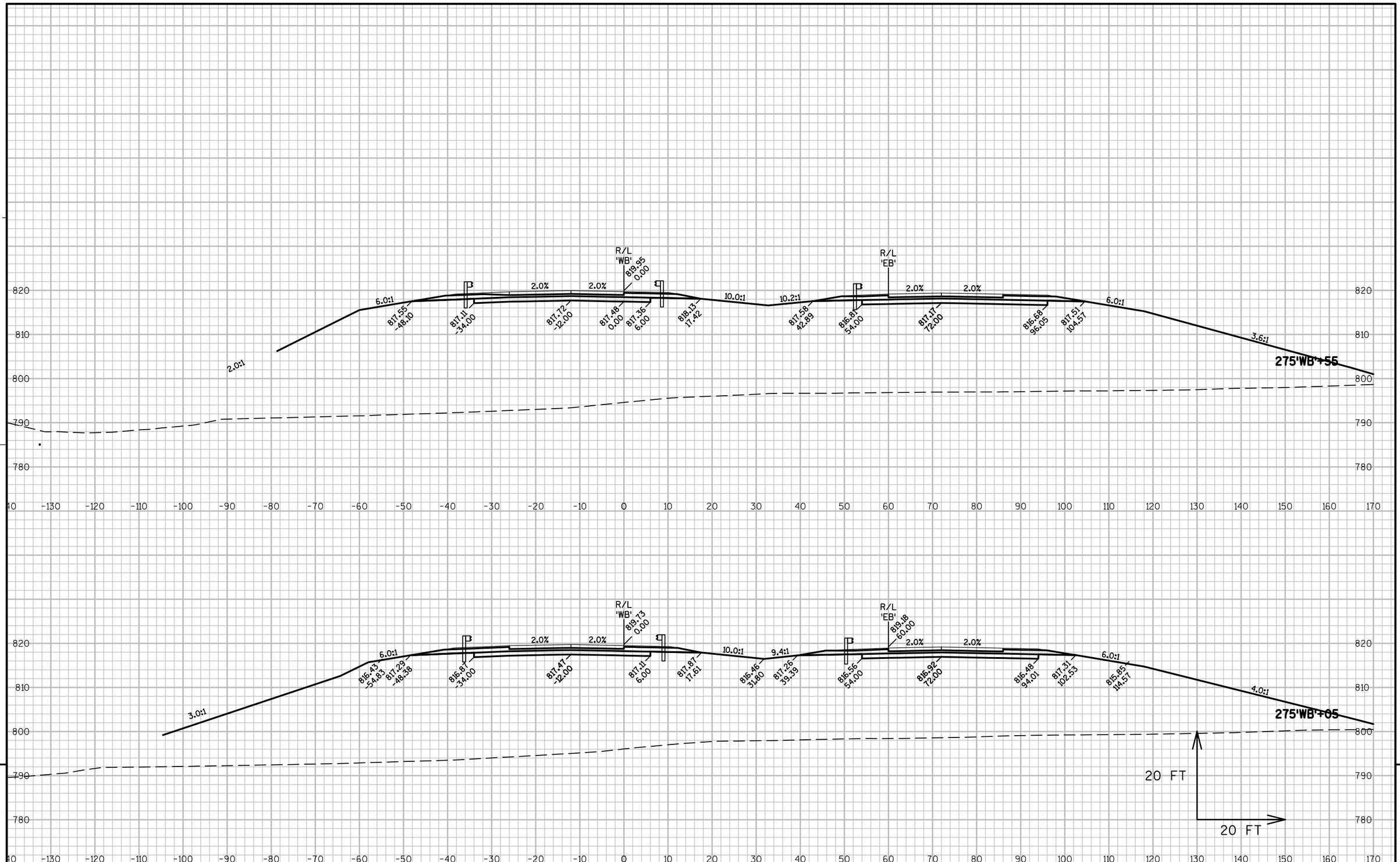


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 249	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_01_STH15.DWG
LAYOUT NAME - 090313_XS

PLOT DATE : 3/1/2017 8:57 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



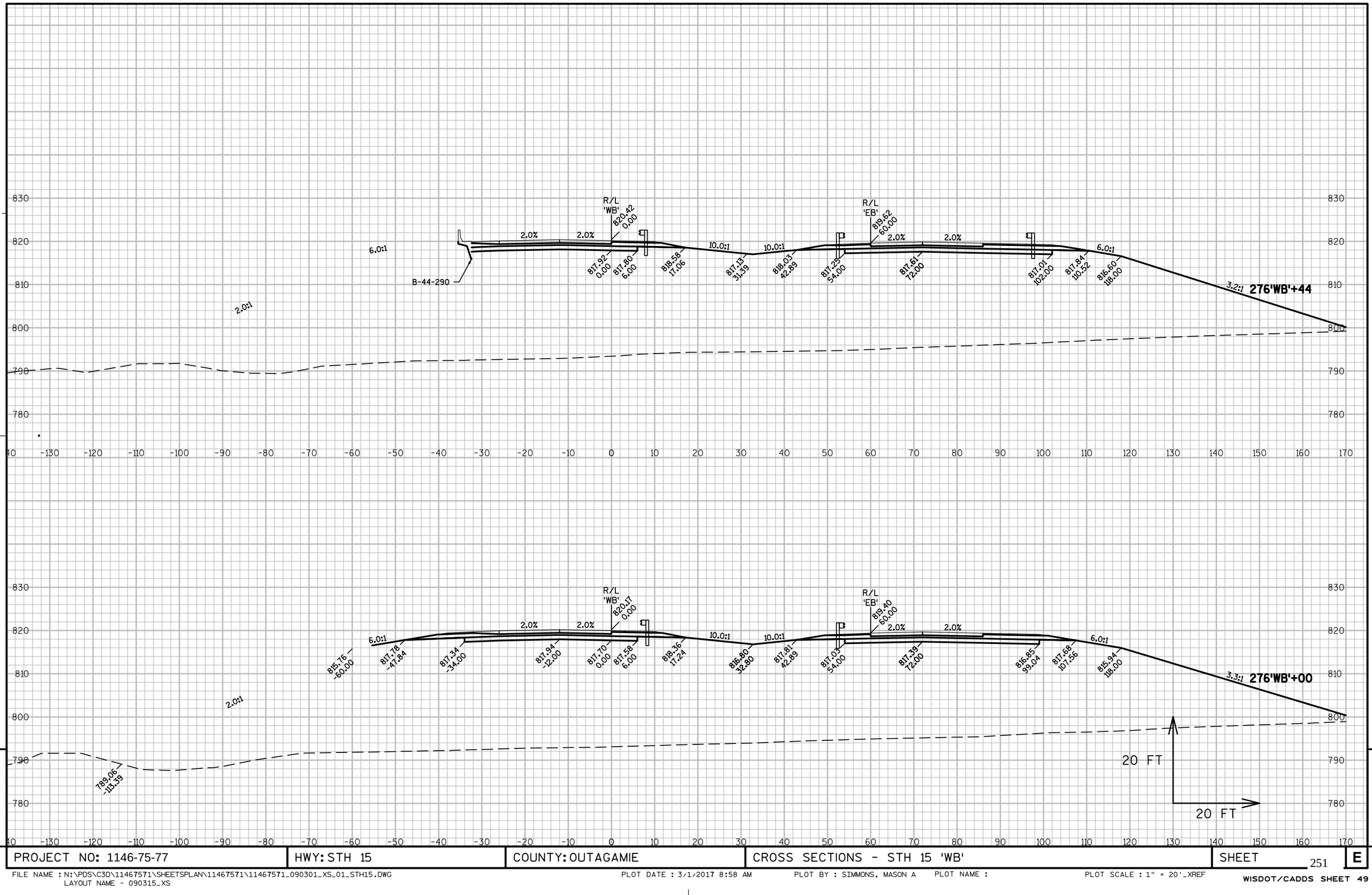
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 250	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_01_STH15.DWG
LAYOUT NAME - 090314_XS

PLOT DATE : 3/1/2017 8:57 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



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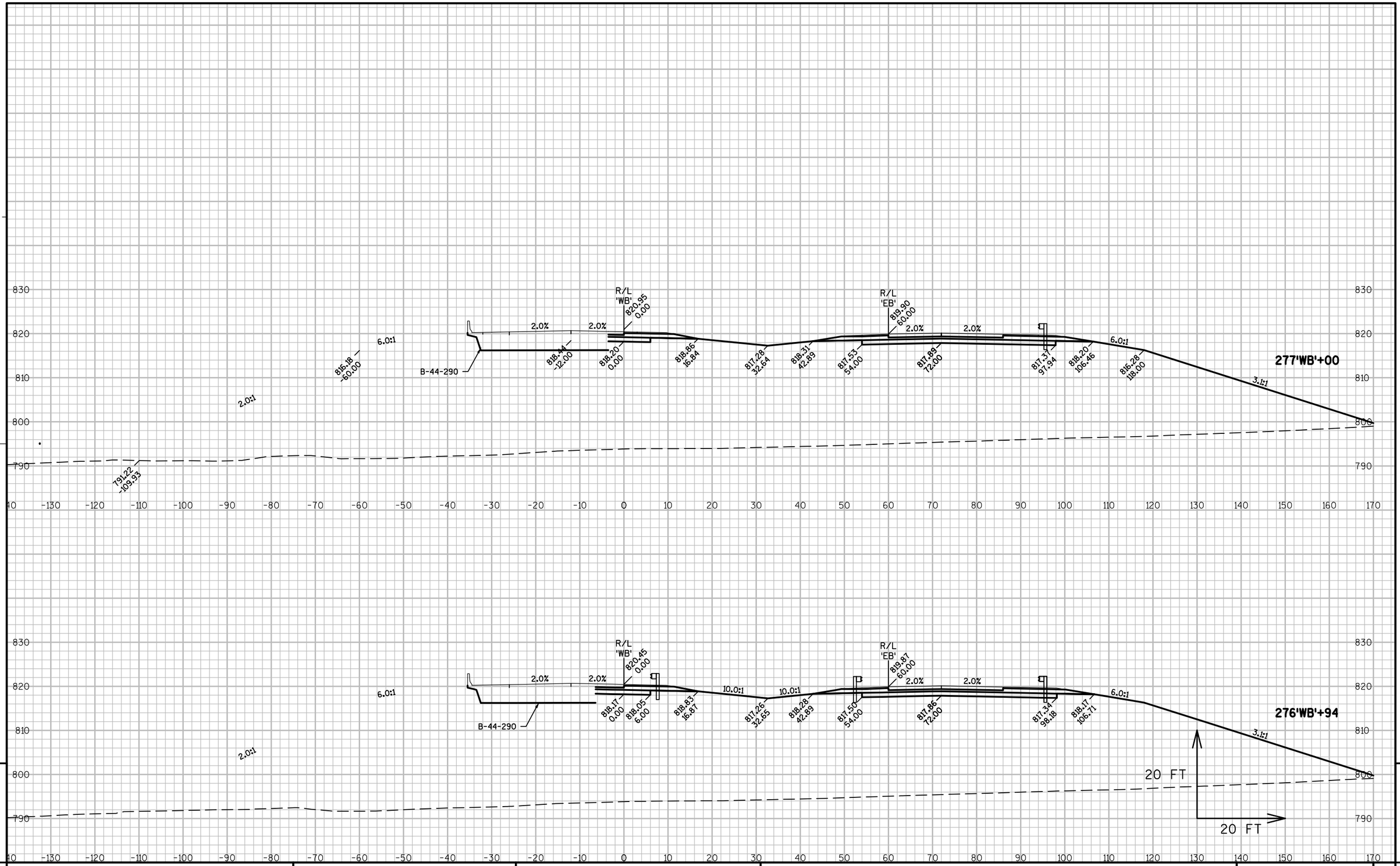
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 251	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_01_STH15.DWG
LAYOUT NAME - 090315_XS

PLOT DATE : 3/1/2017 8:58 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



9

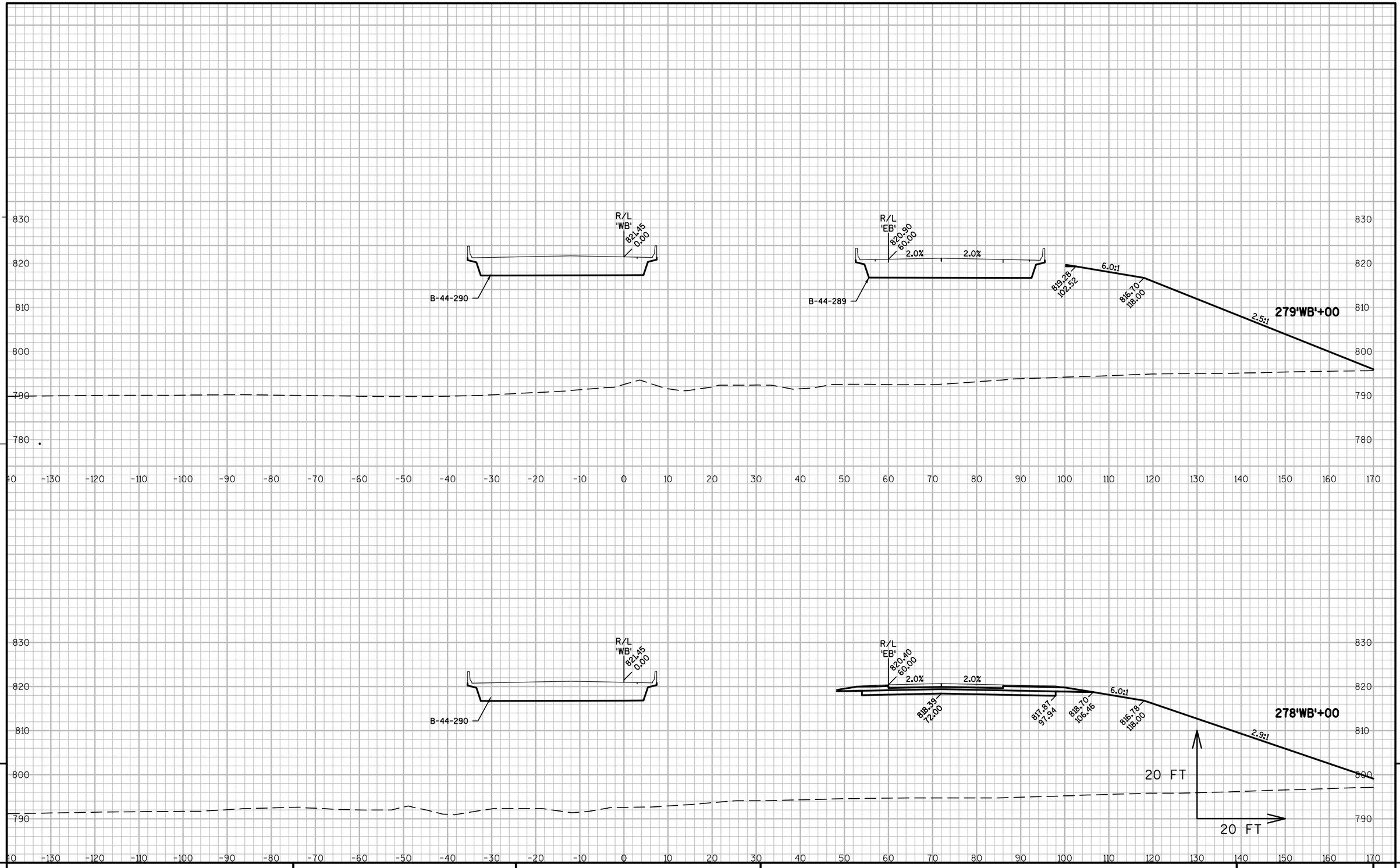
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 252	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_01_STH15.DWG
LAYOUT NAME - 090316_XS

PLOT DATE : 3/1/2017 8:58 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

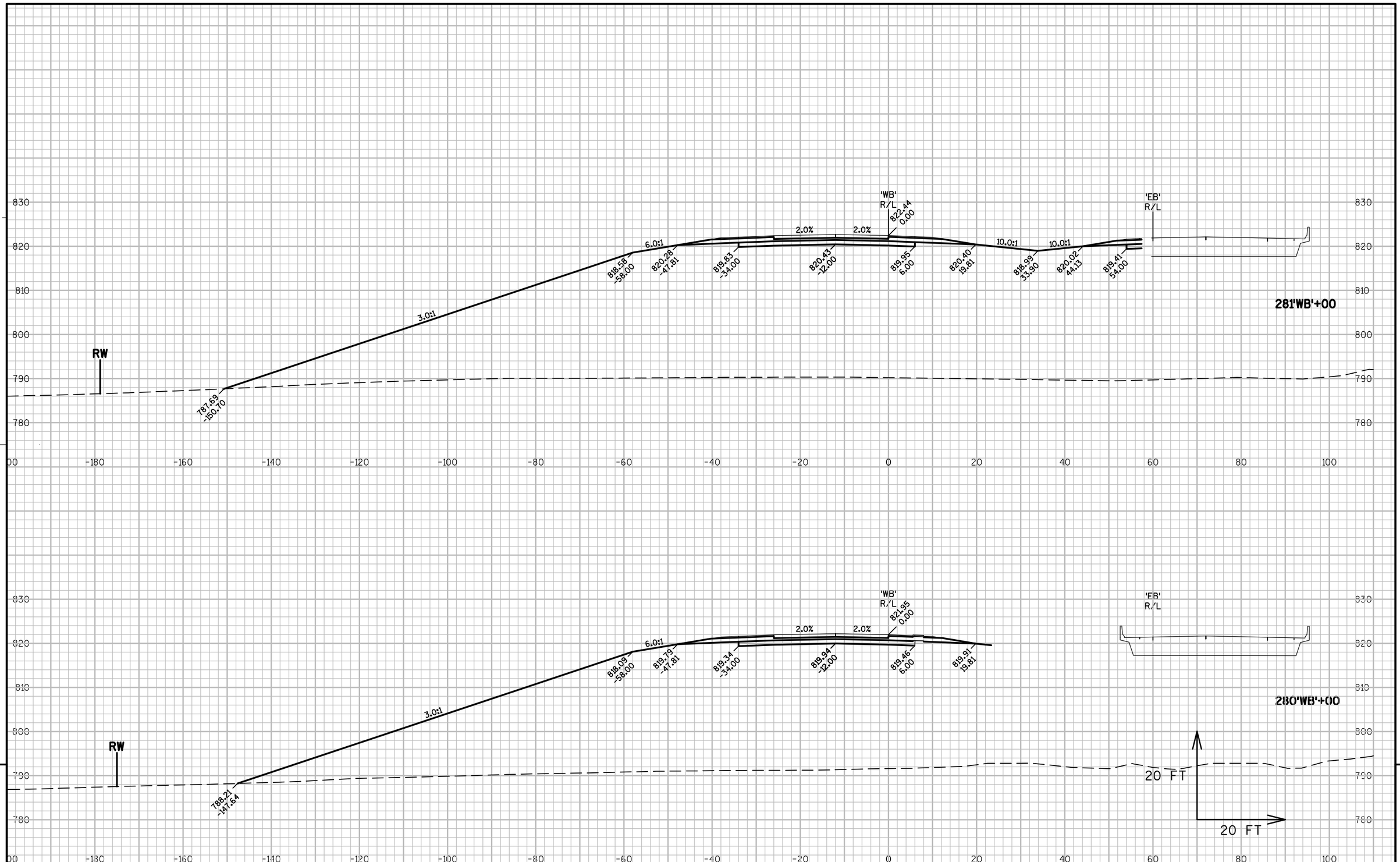
WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 253	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_01_STH15.DWG
LAYOUT NAME - 090317_XS

PLOT DATE : 3/1/2017 8:58 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

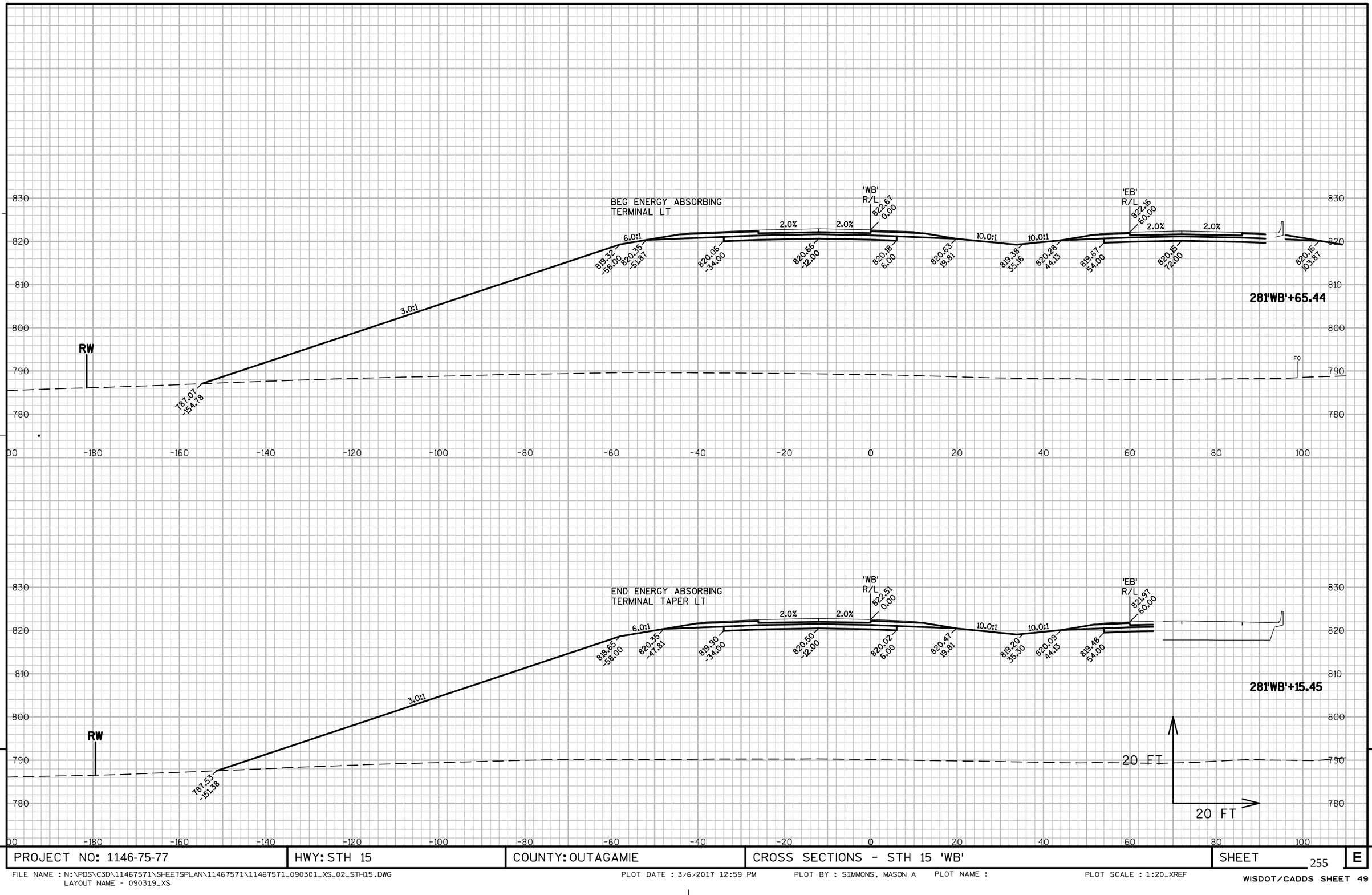


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 254	E

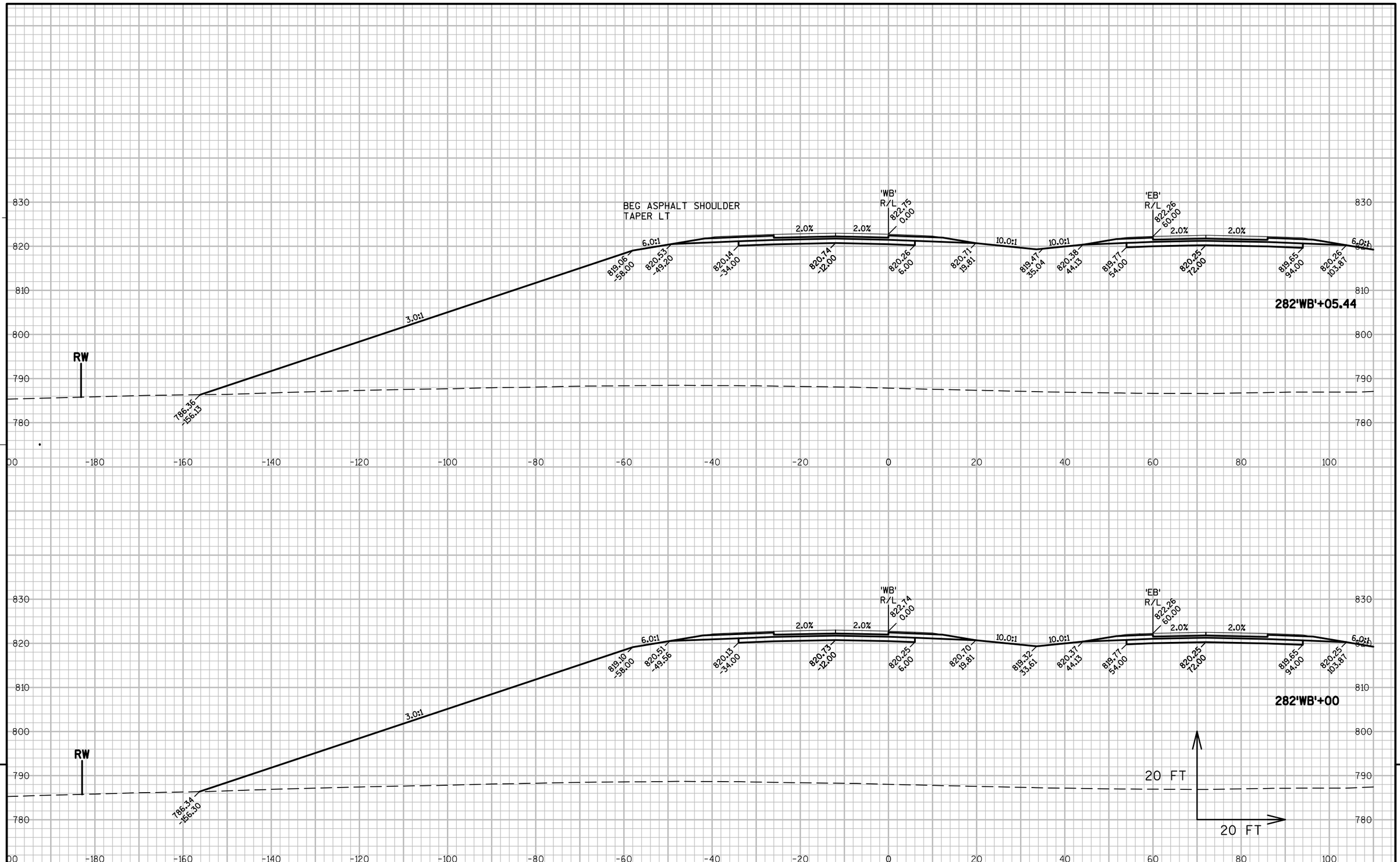
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090318_XS

PLOT DATE : 3/6/2017 12:58 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 255	E

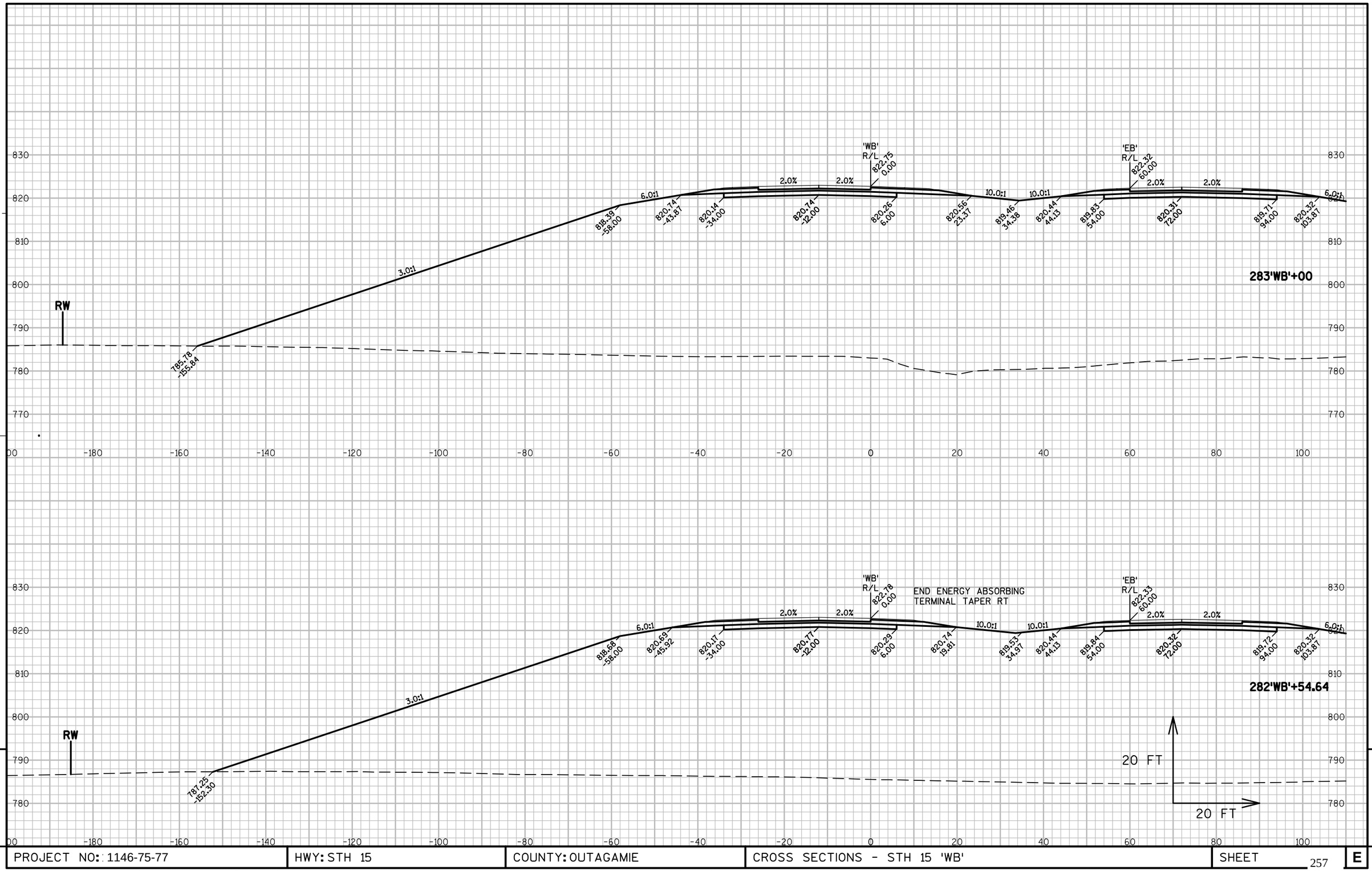


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 256	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090320_XS

PLOT DATE : 3/6/2017 12:59 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

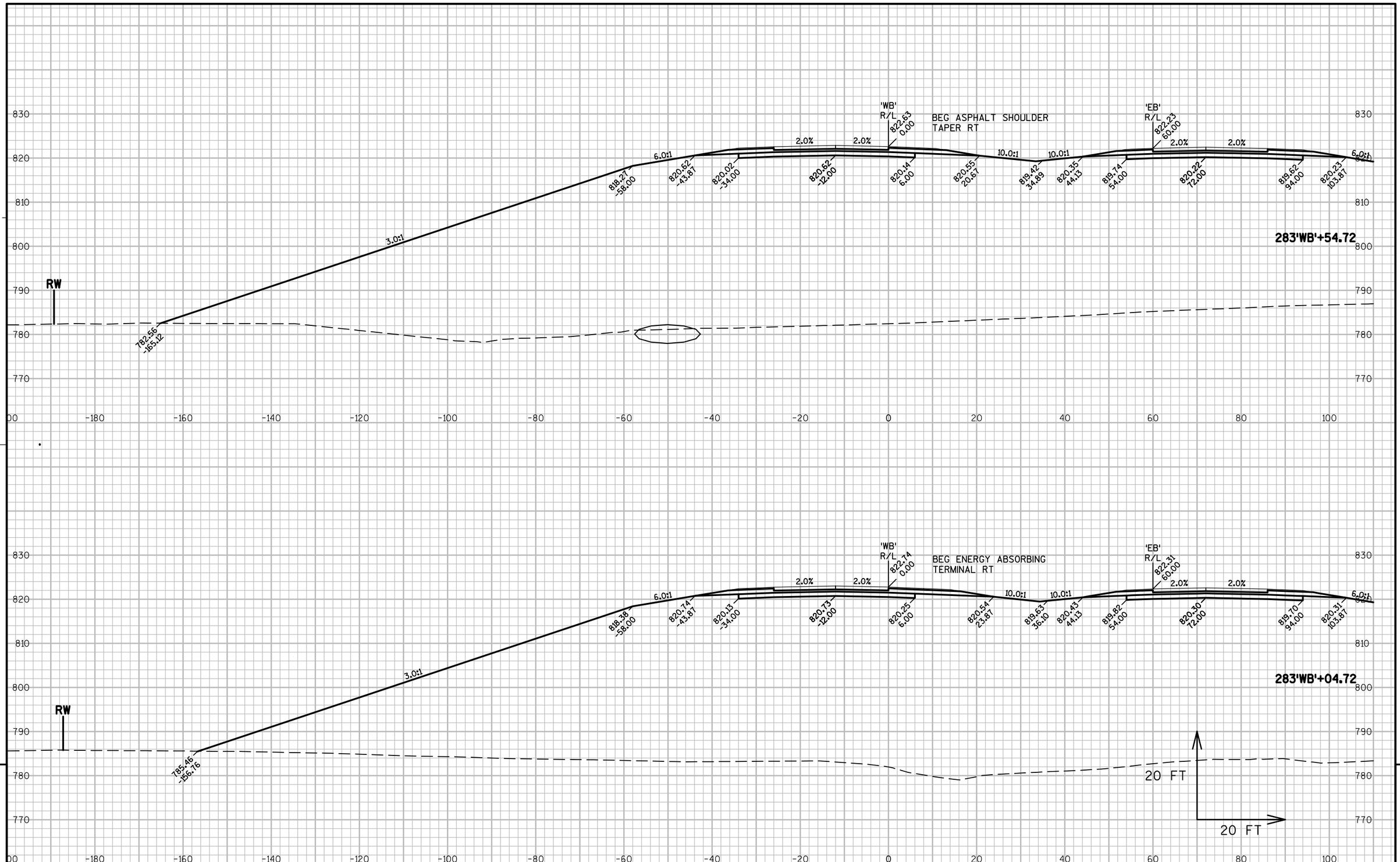


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 257 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090321_XS

PLOT DATE : 3/6/2017 12:59 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

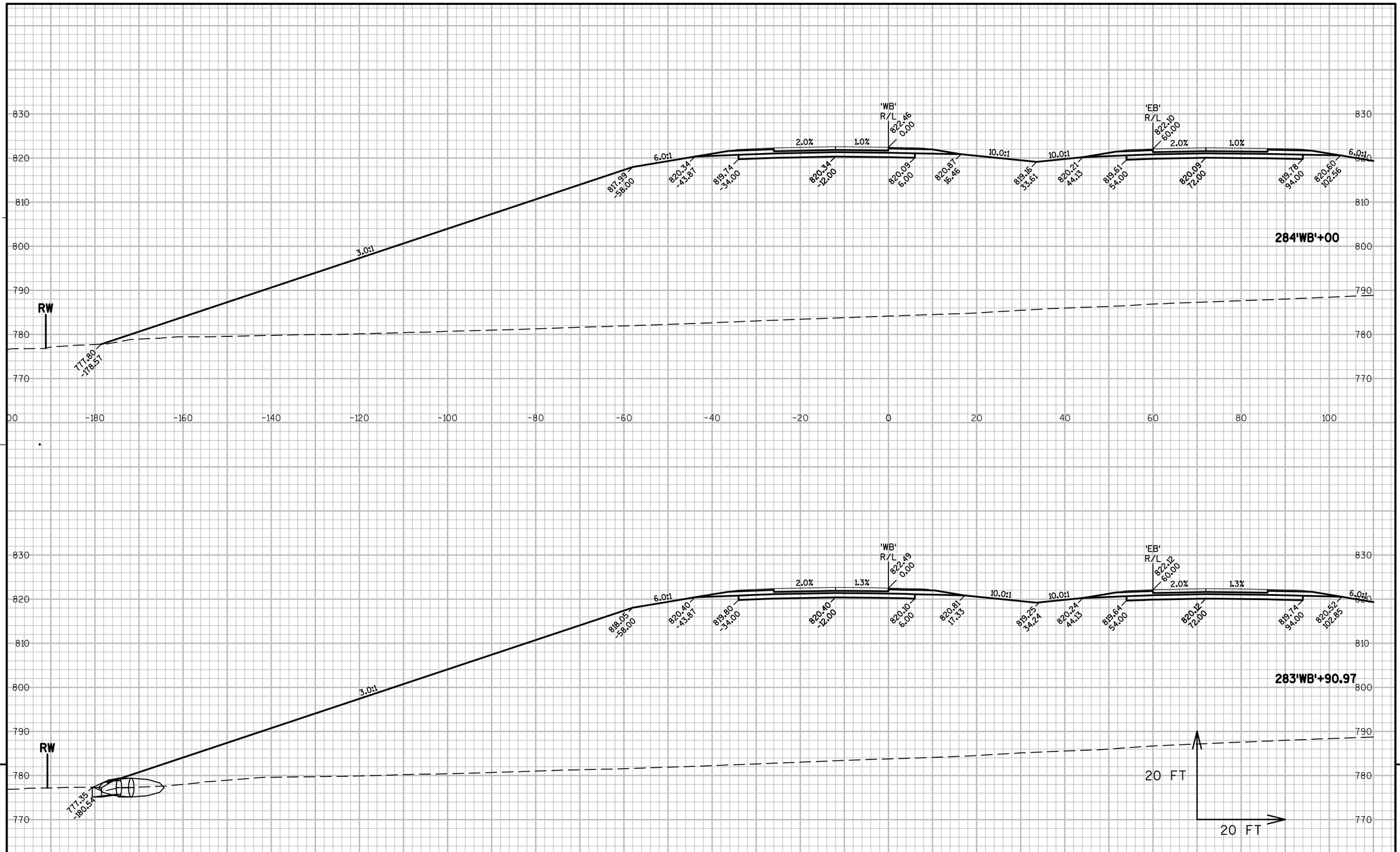


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 258 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090322_XS

PLOT DATE : 3/6/2017 12:59 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



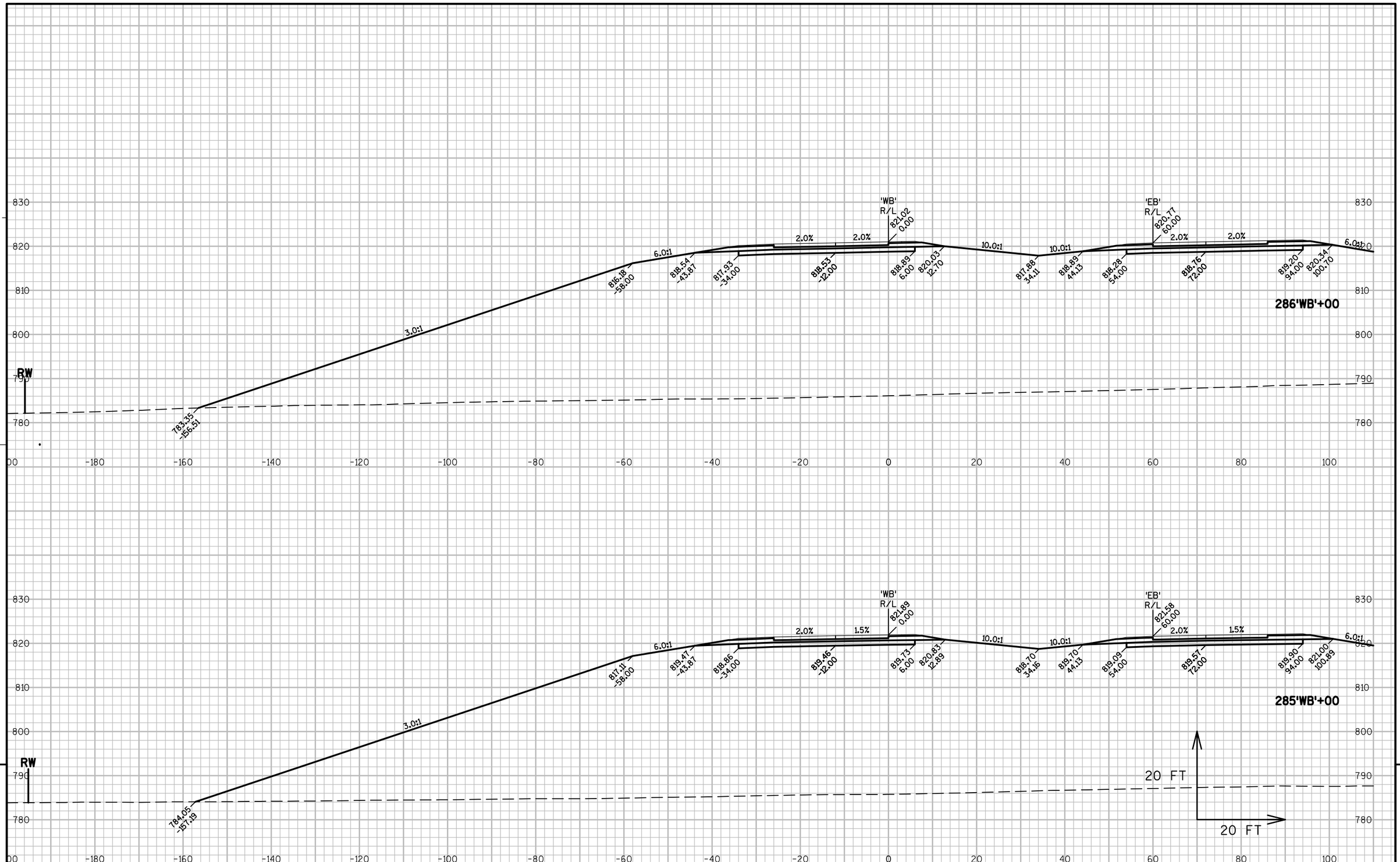
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 259	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090323_XS

PLOT DATE : 3/6/2017 12:59 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

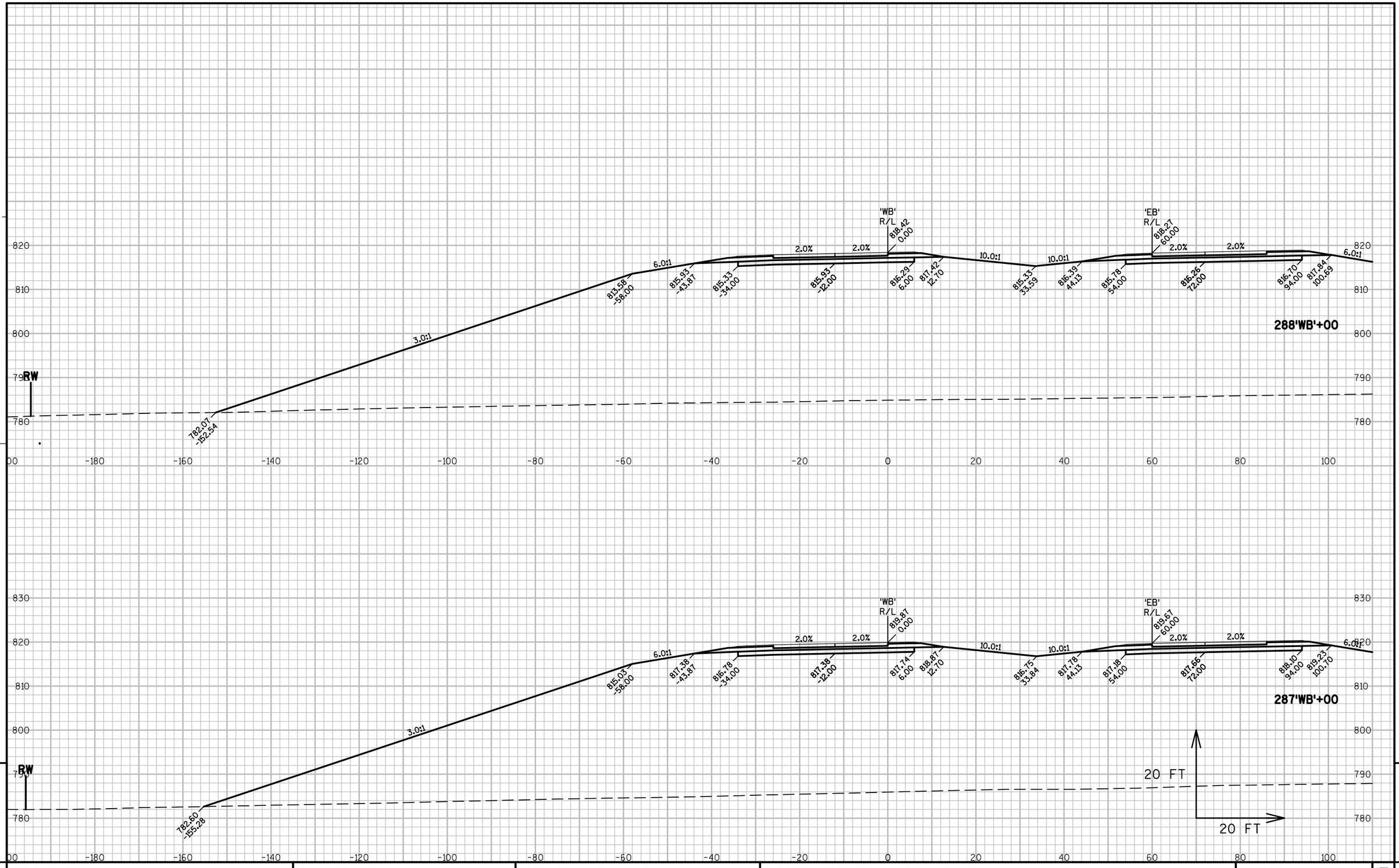


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 260 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090324_XS

PLOT DATE : 3/6/2017 12:59 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

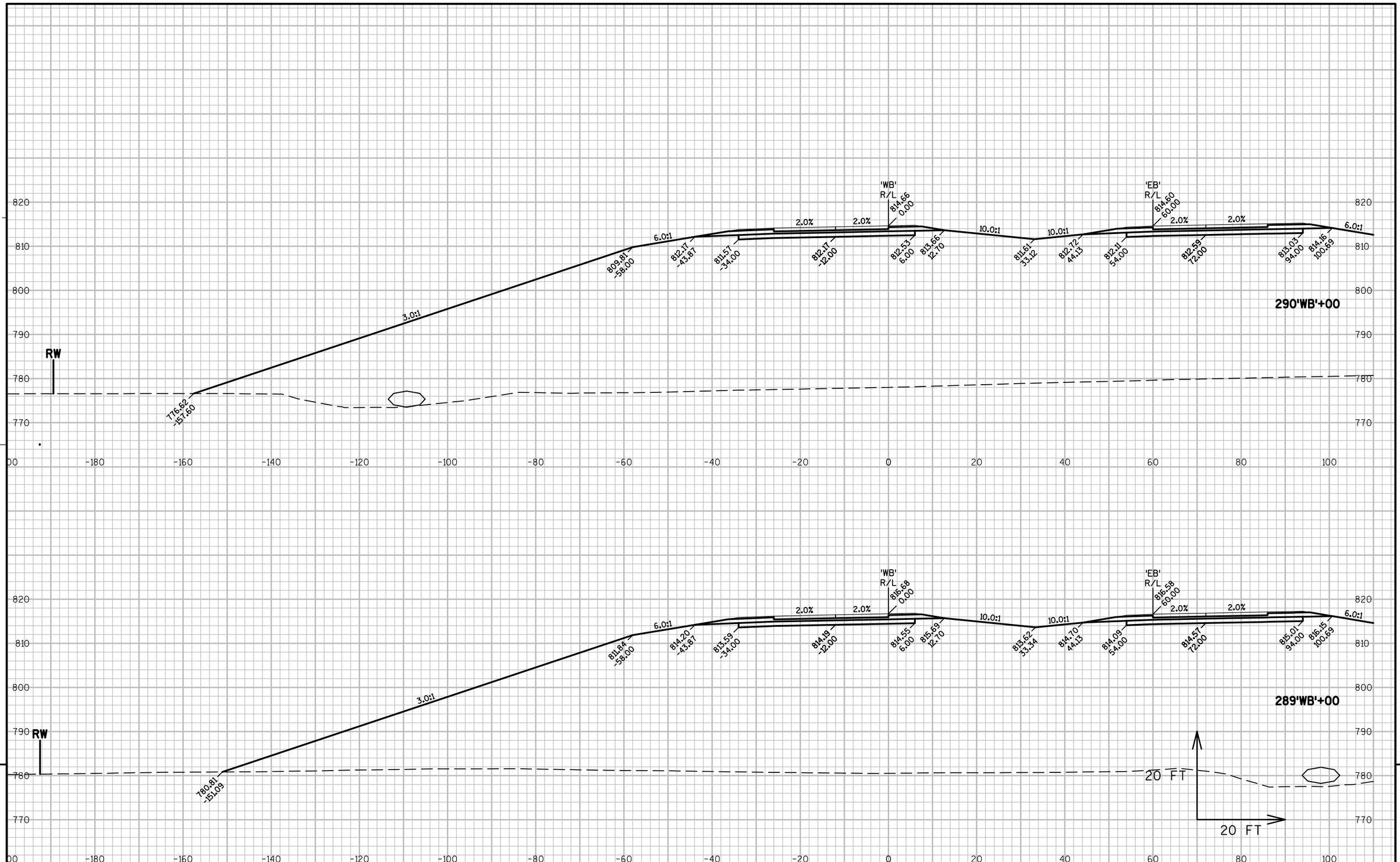


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 261	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090325_XS

PLOT DATE : 3/6/2017 12:59 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

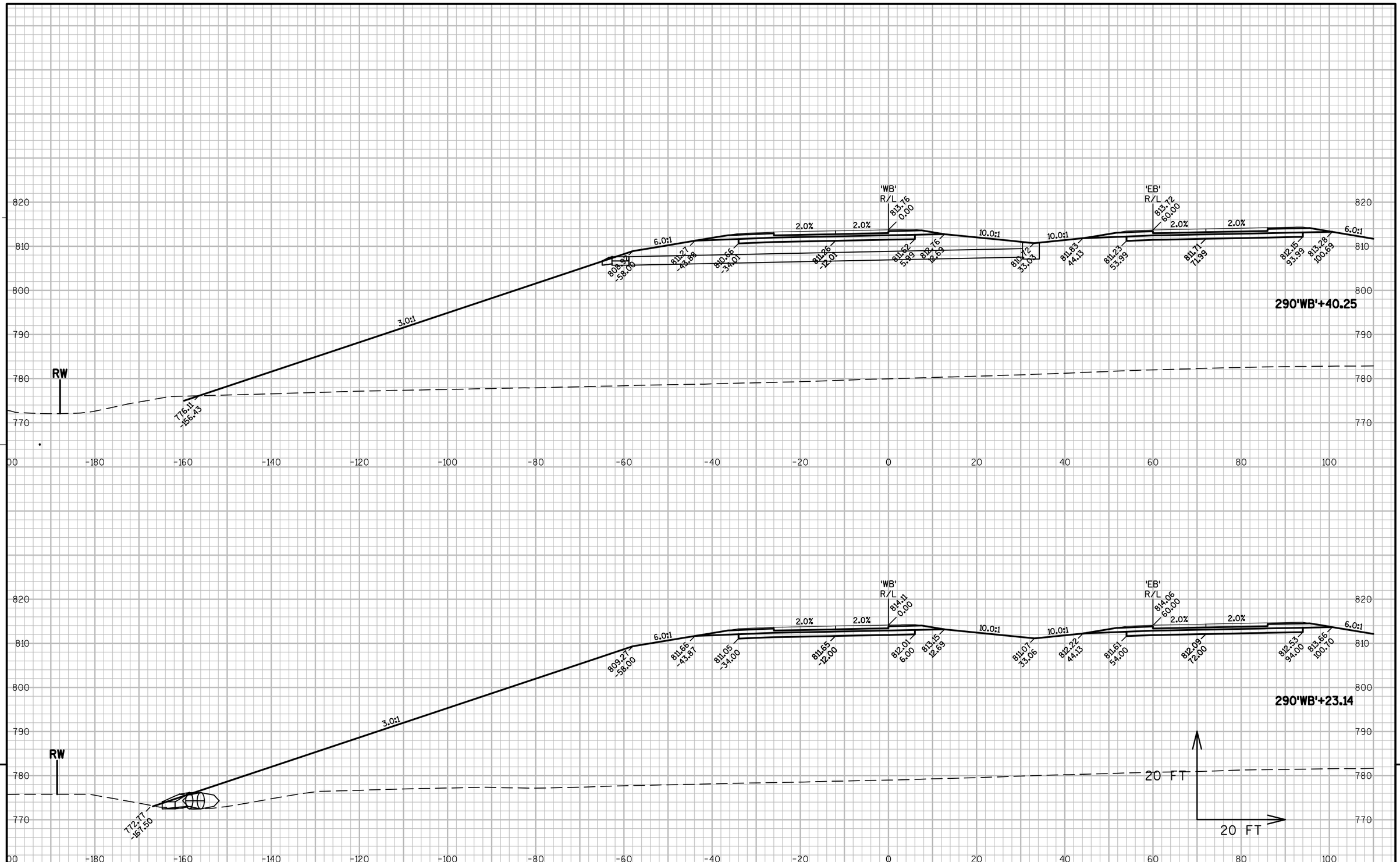


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 262 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090326_XS

PLOT DATE : 3/6/2017 12:59 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



9

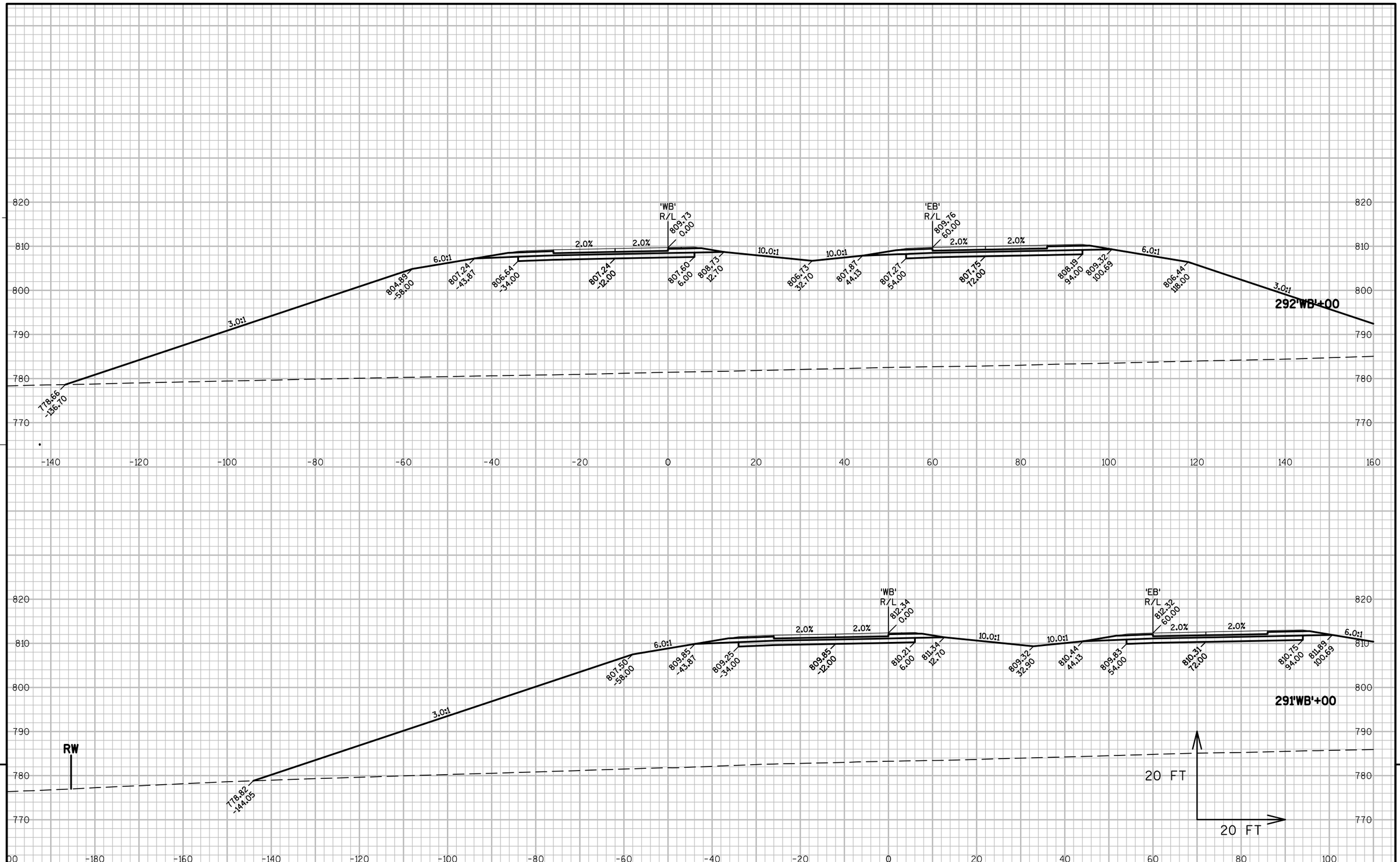
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 263	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090327_XS

PLOT DATE : 3/6/2017 12:59 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



9

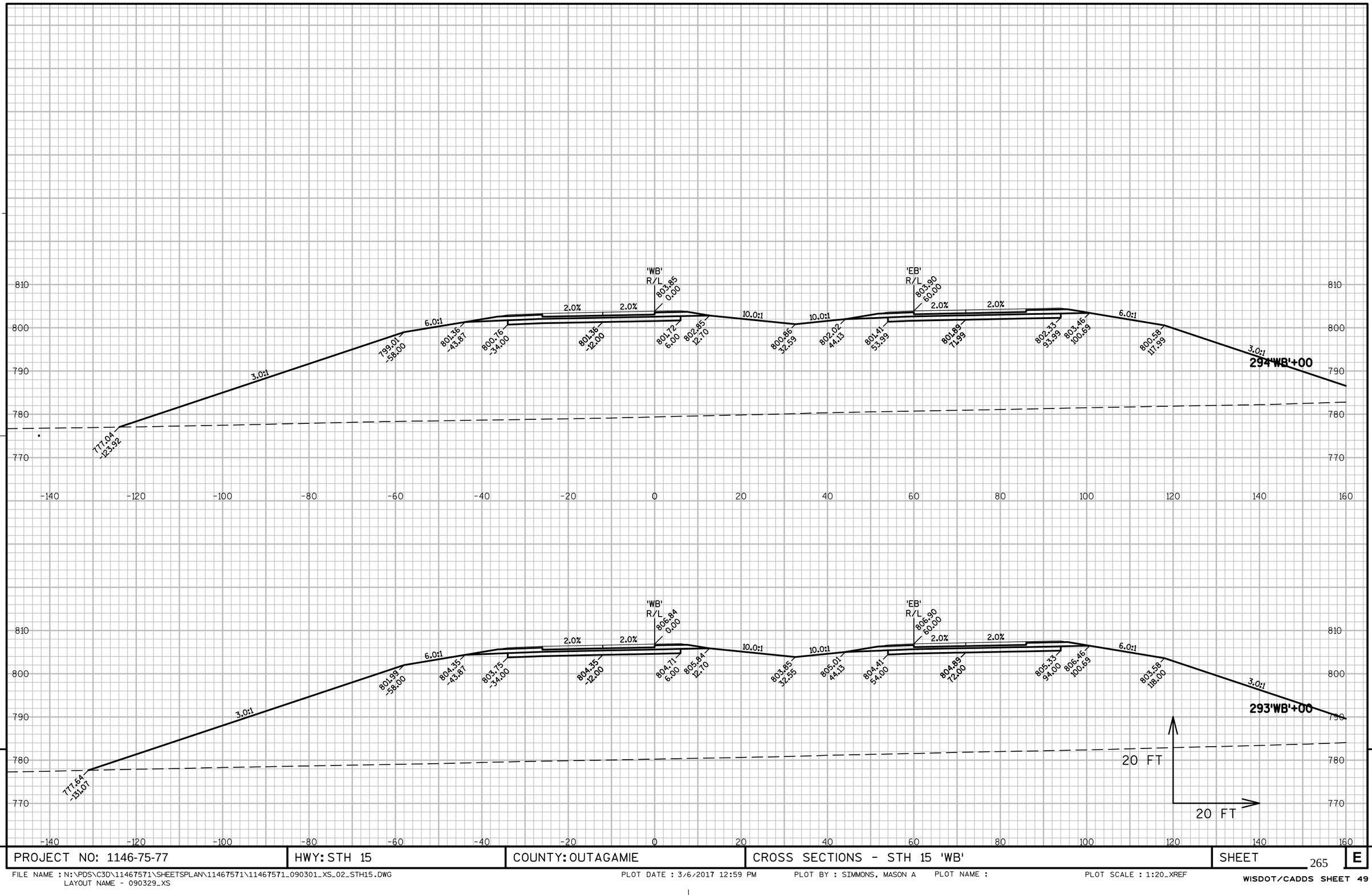
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 264	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090328_XS

PLOT DATE : 3/6/2017 12:59 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



9

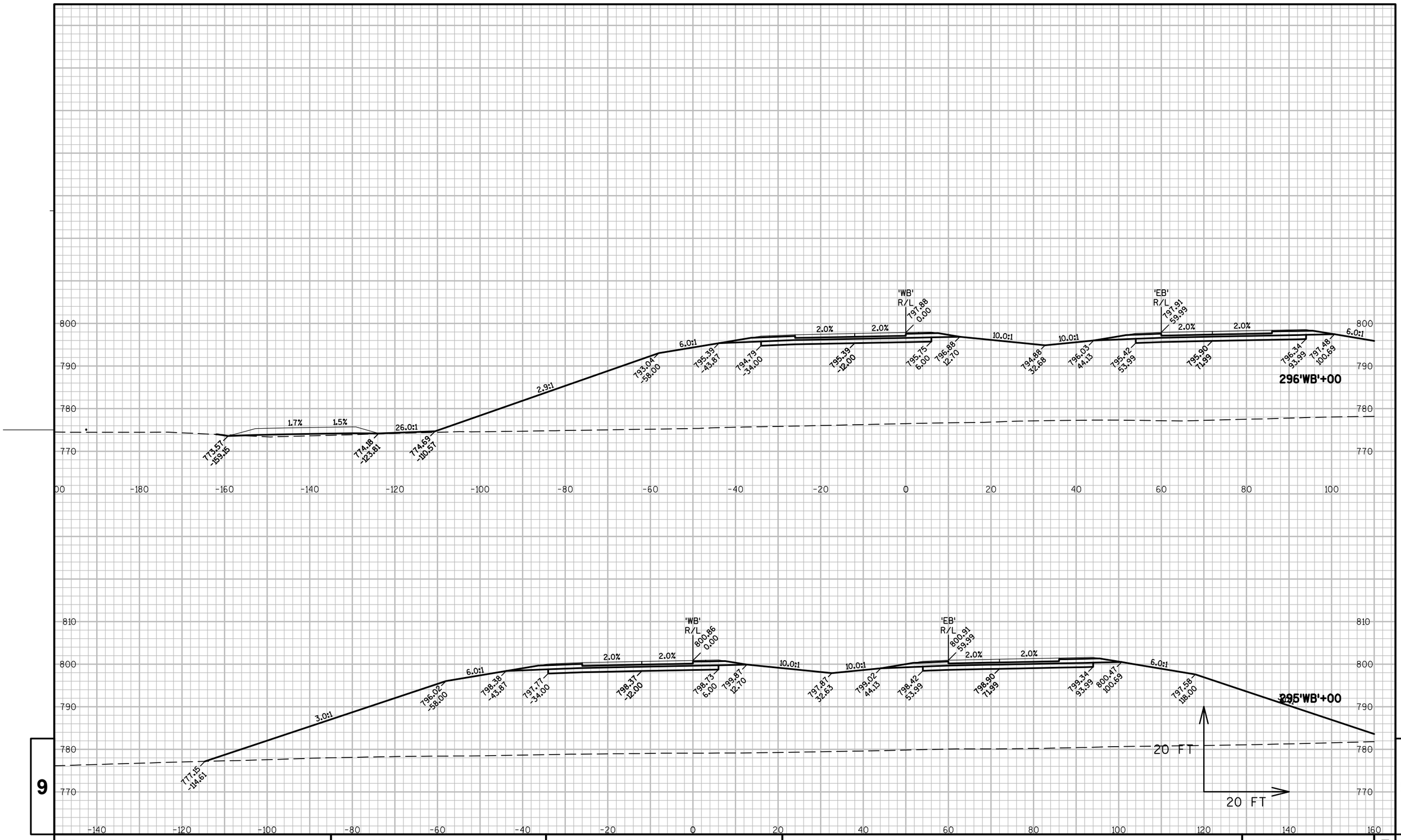
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 265	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090329_XS

PLOT DATE : 3/6/2017 12:59 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

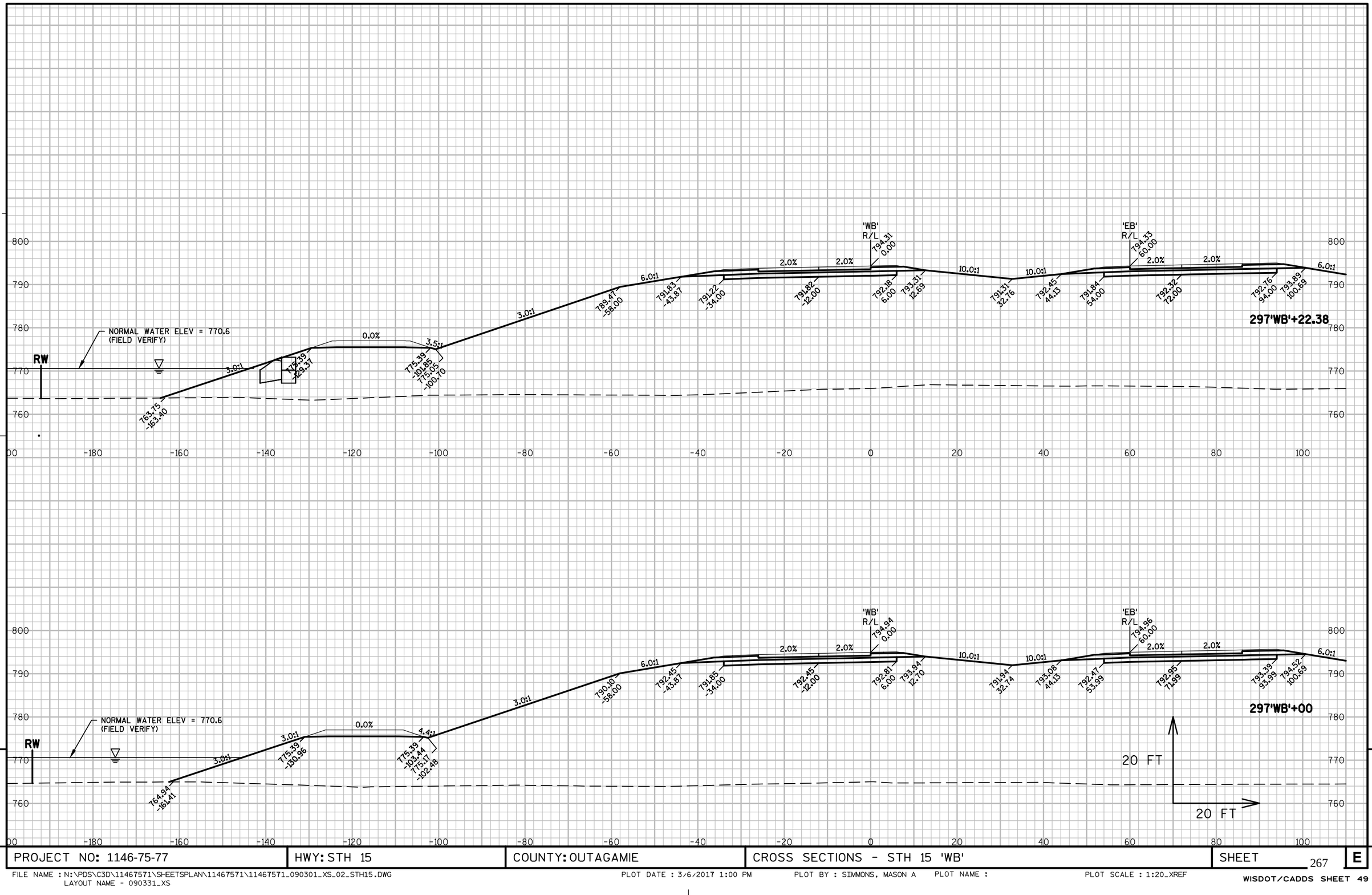
WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 266	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090330_XS

PLOT DATE : 3/6/2017 12:59 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

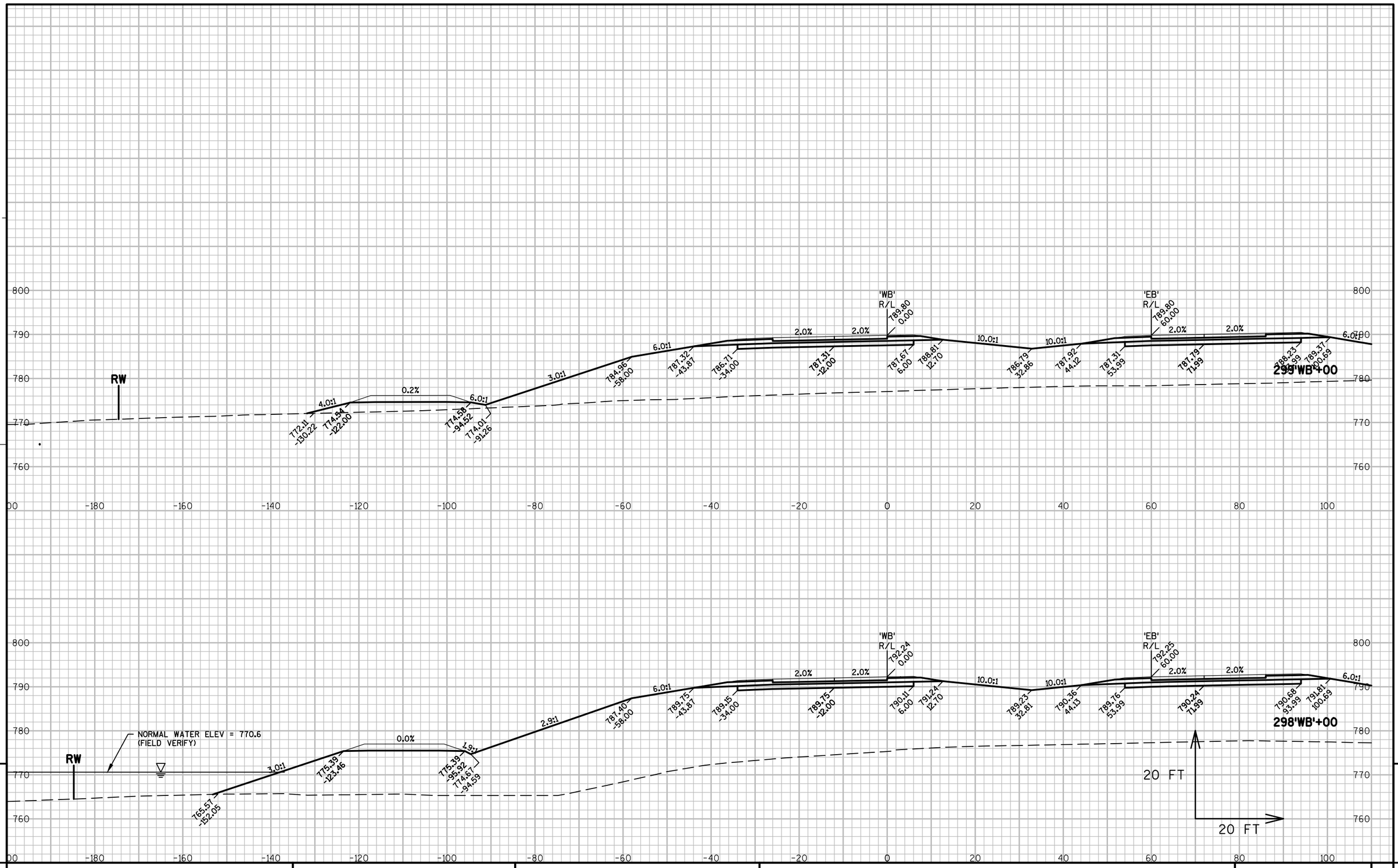


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 267	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090331_XS

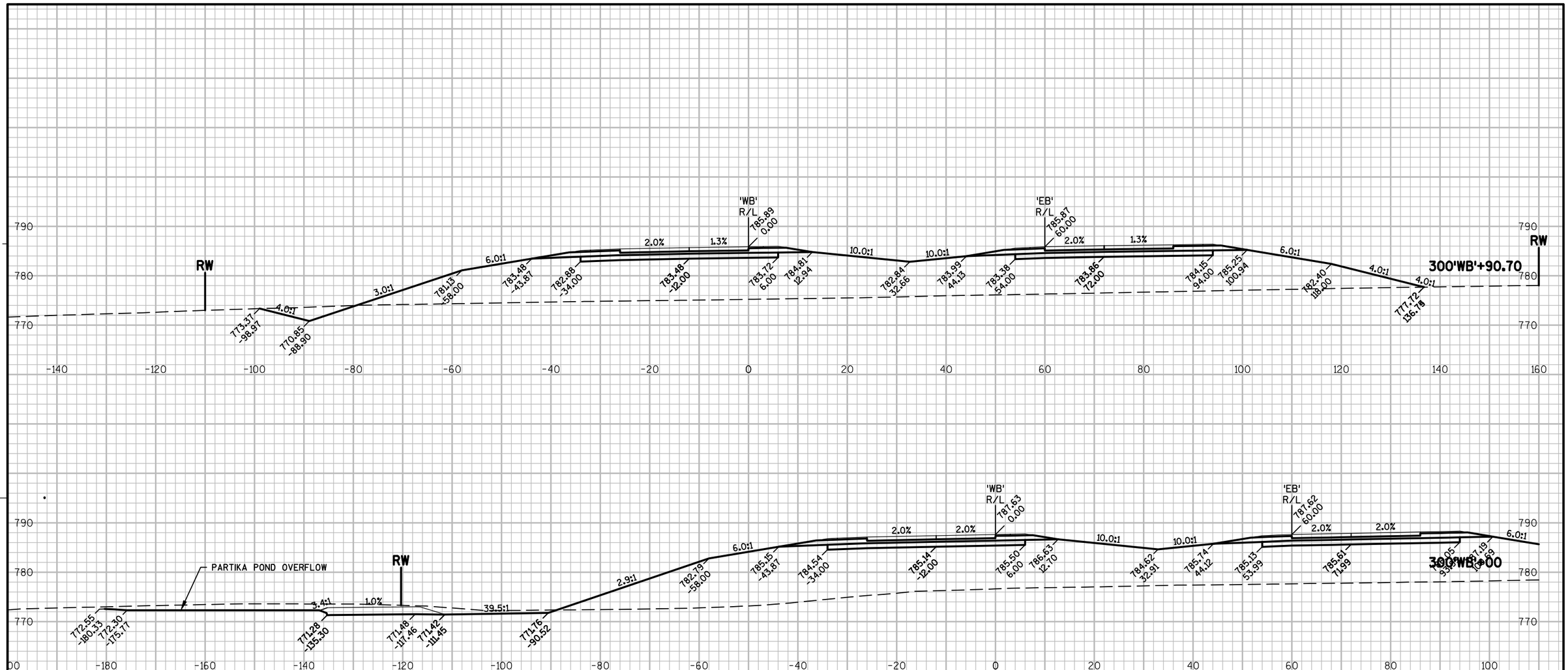
PLOT DATE : 3/6/2017 1:00 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

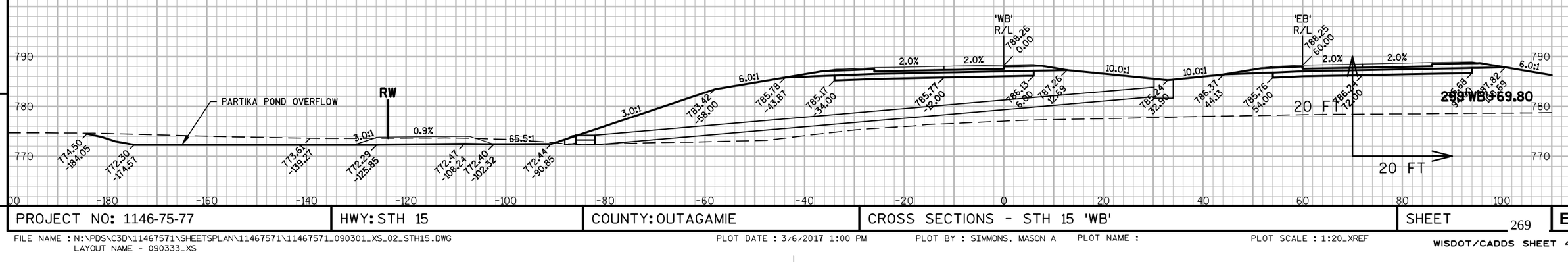
WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 268	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090332_XS
PLOT DATE : 3/6/2017 1:00 PM
PLOT BY : SIMMONS, MASON A
PLOT NAME :
PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49





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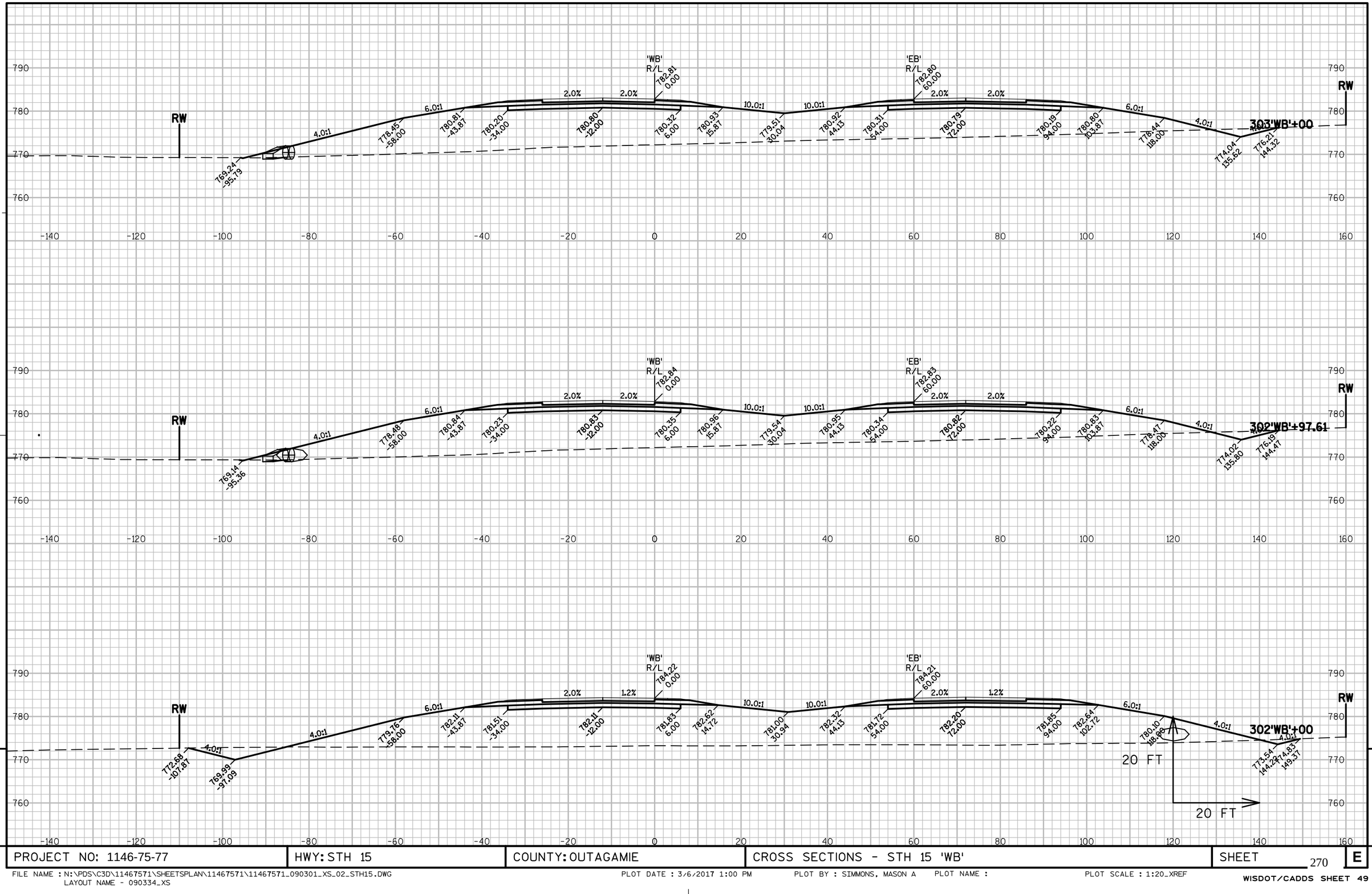
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 269	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090333_XS

PLOT DATE : 3/6/2017 1:00 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



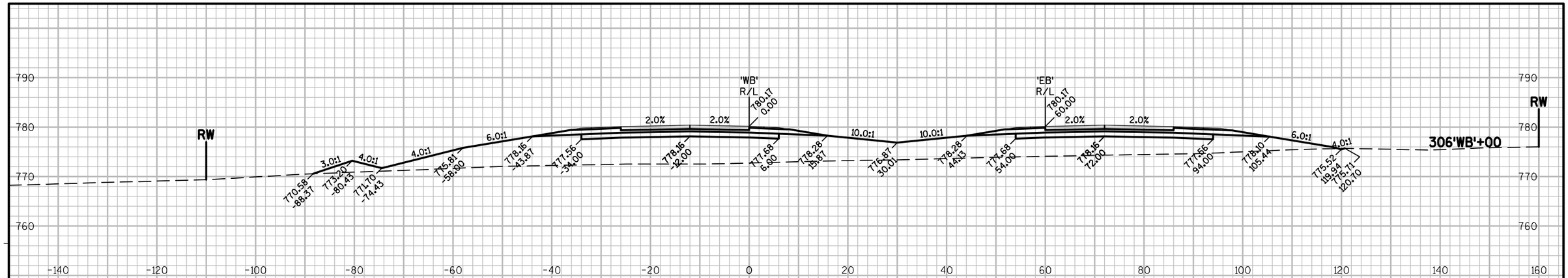
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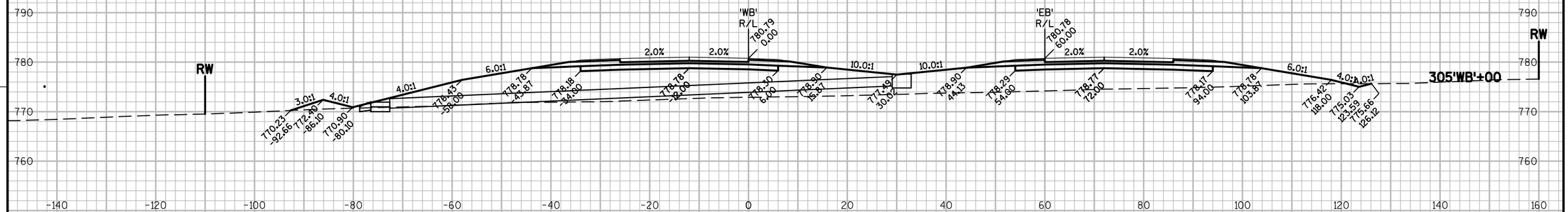
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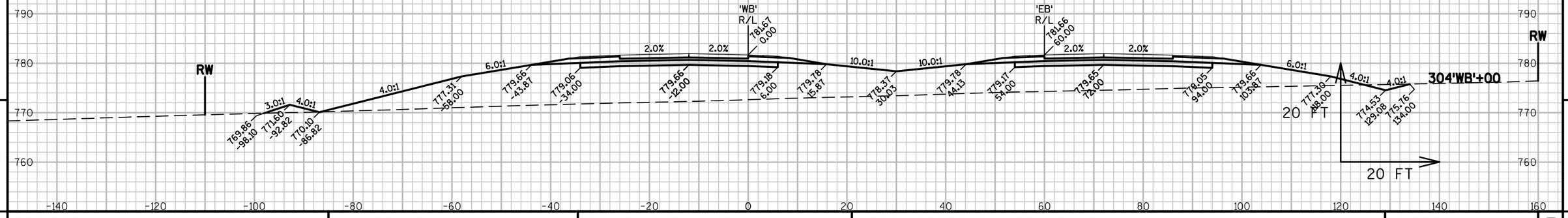
PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 270	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090334_XS

PLOT DATE : 3/6/2017 1:00 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



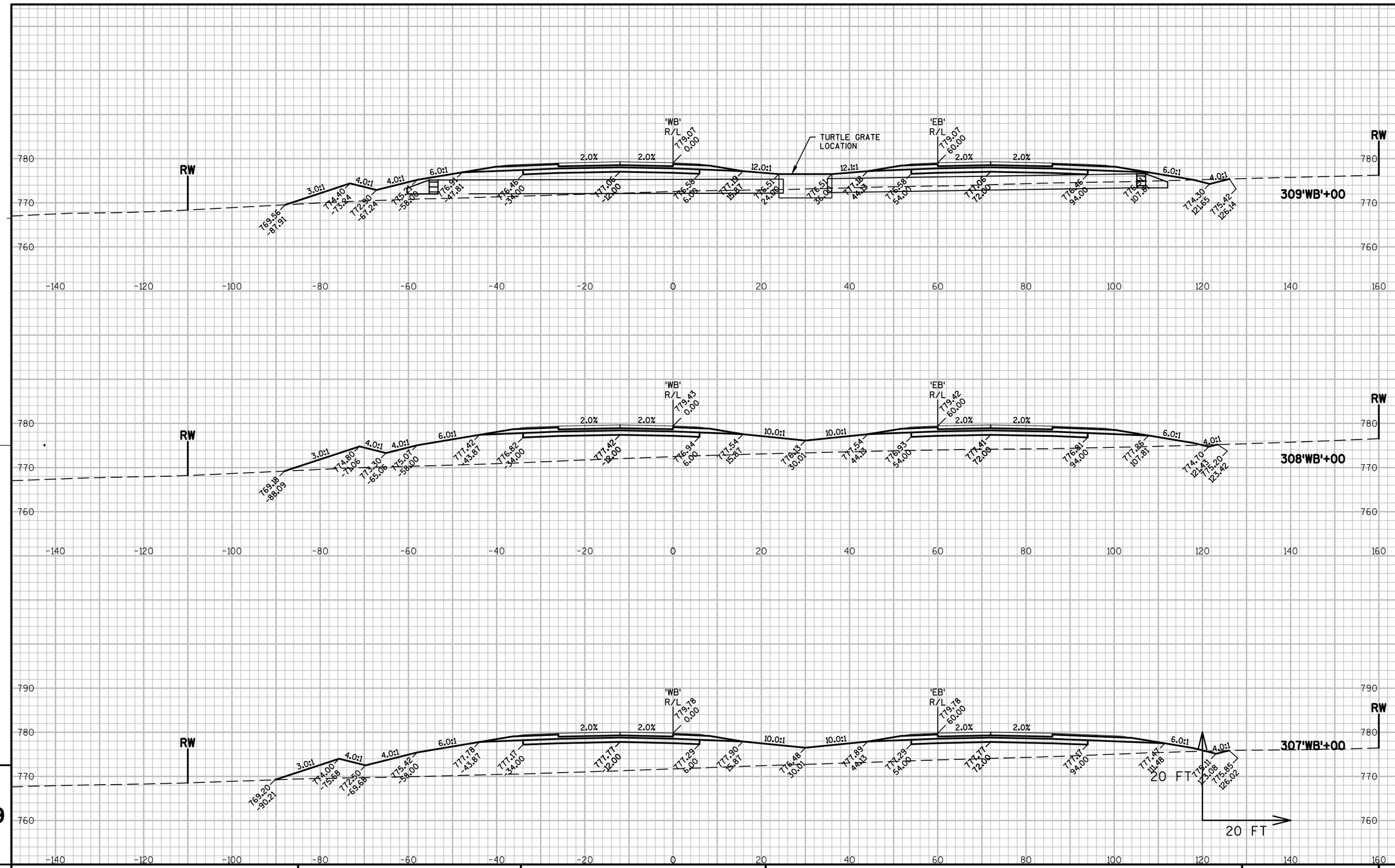




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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 271	E



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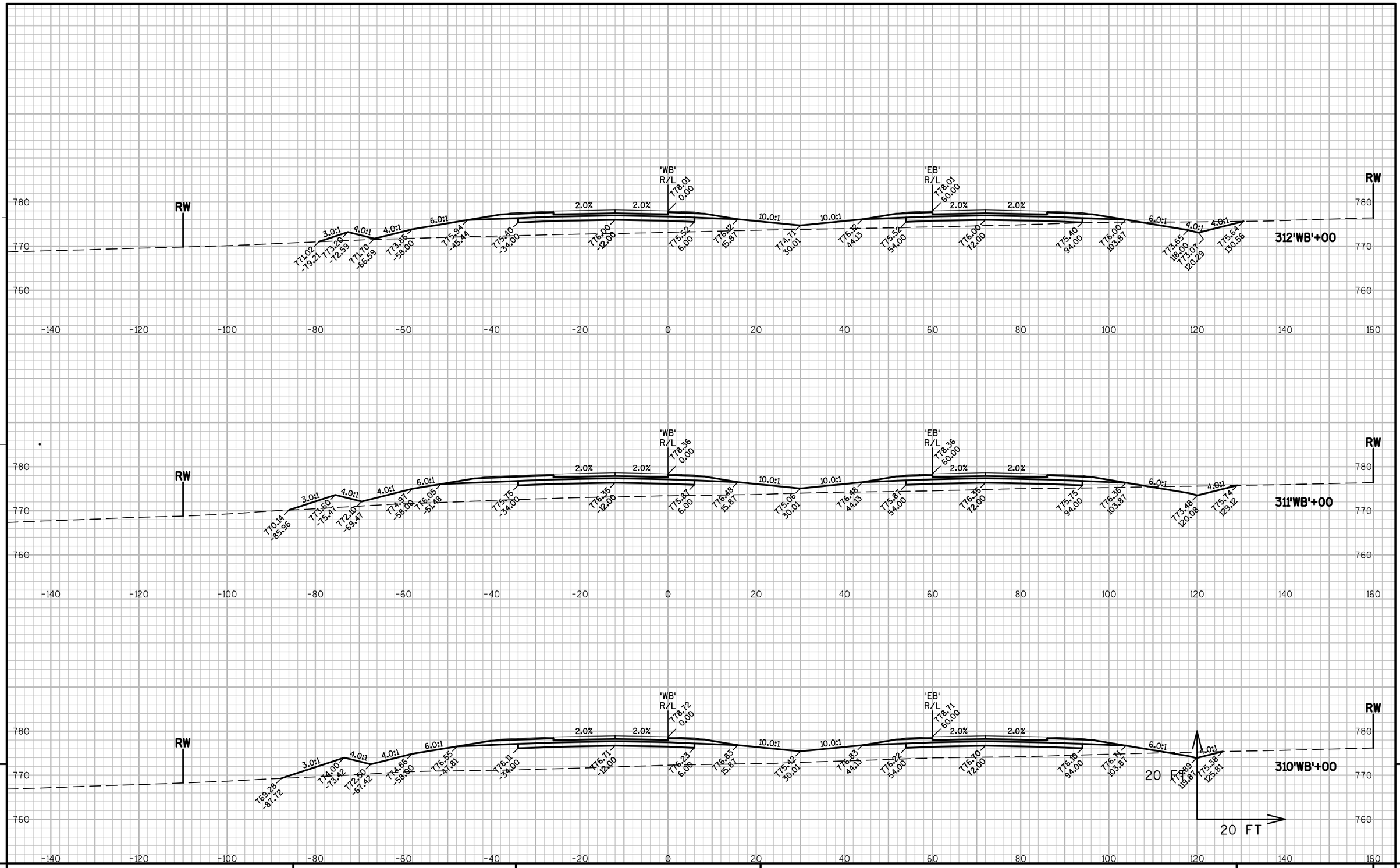
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 272	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090336_XS

PLOT DATE : 3/6/2017 1:00 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



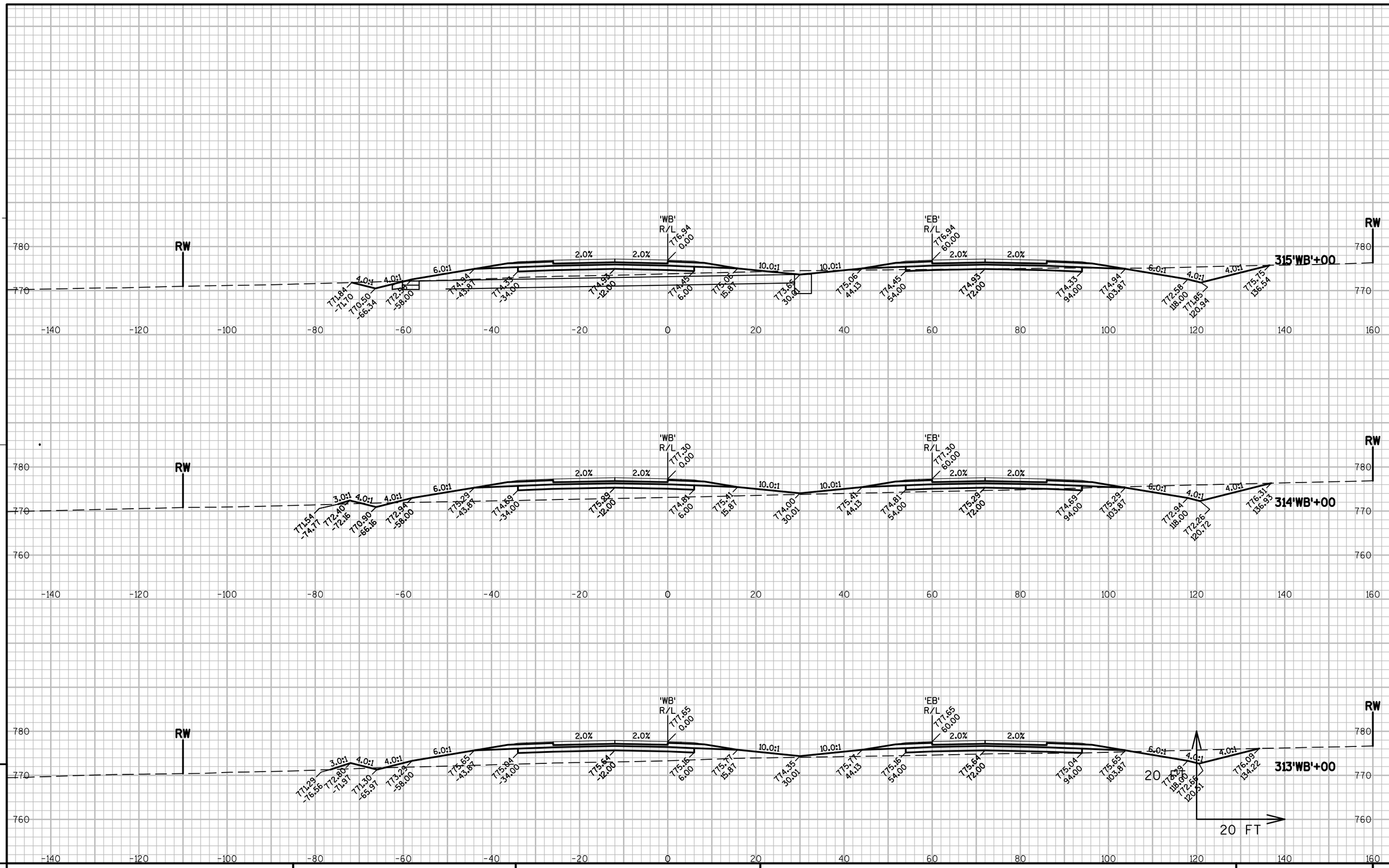
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 273 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090337_XS

PLOT DATE : 3/6/2017 1:00 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

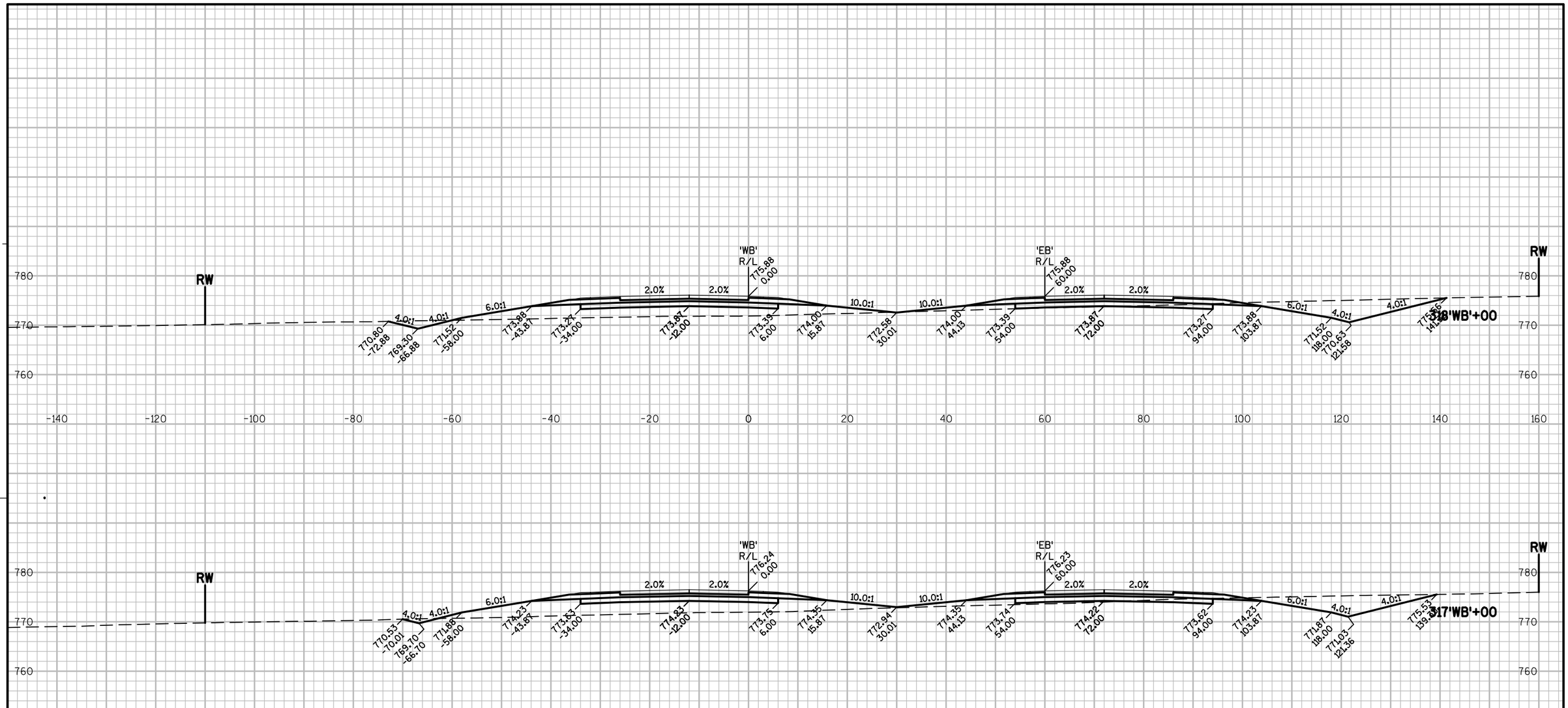


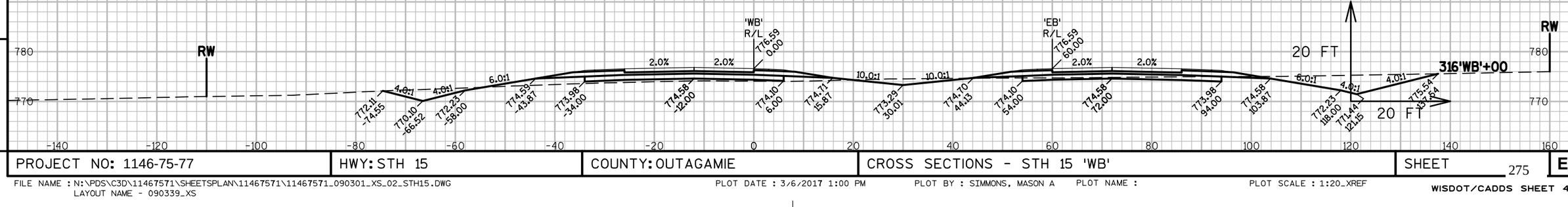
PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 274 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090338_XS

PLOT DATE : 3/6/2017 1:00 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



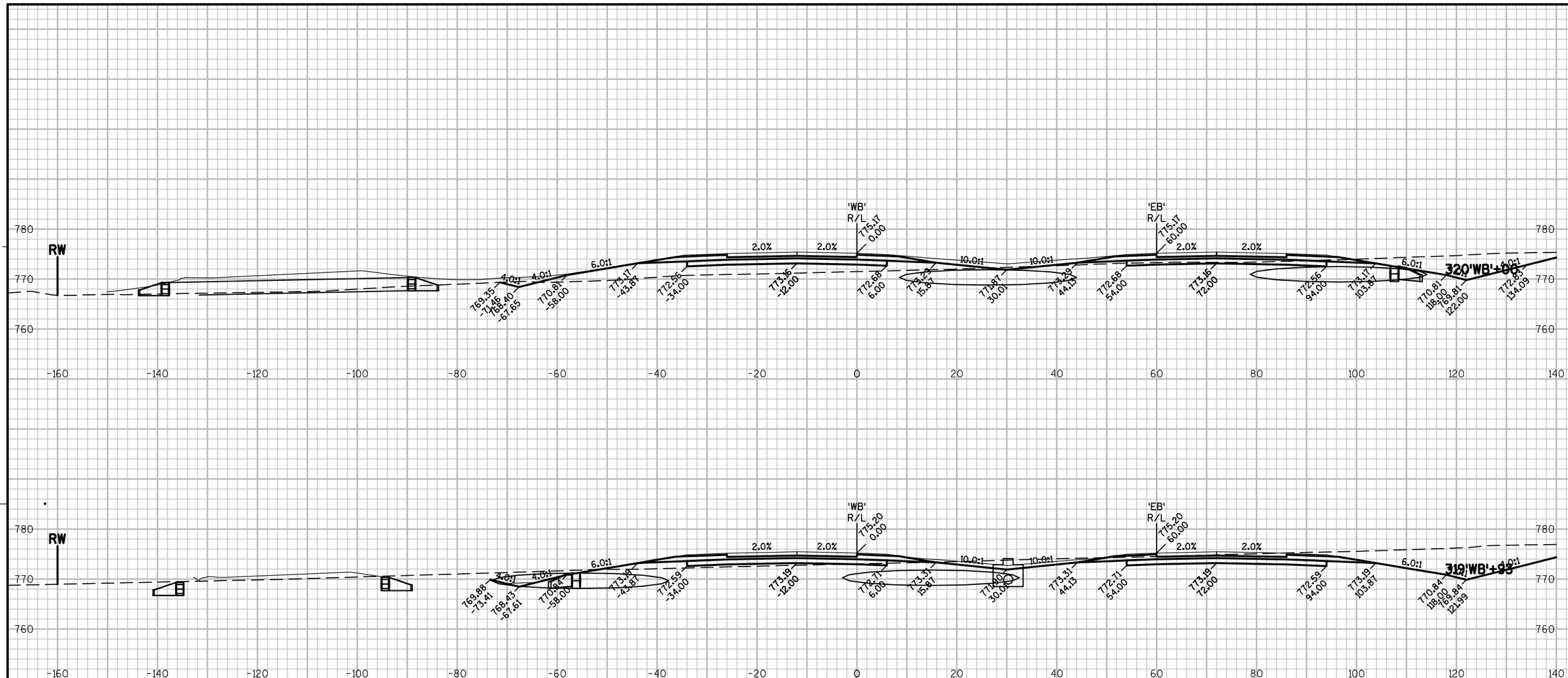


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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 275	E

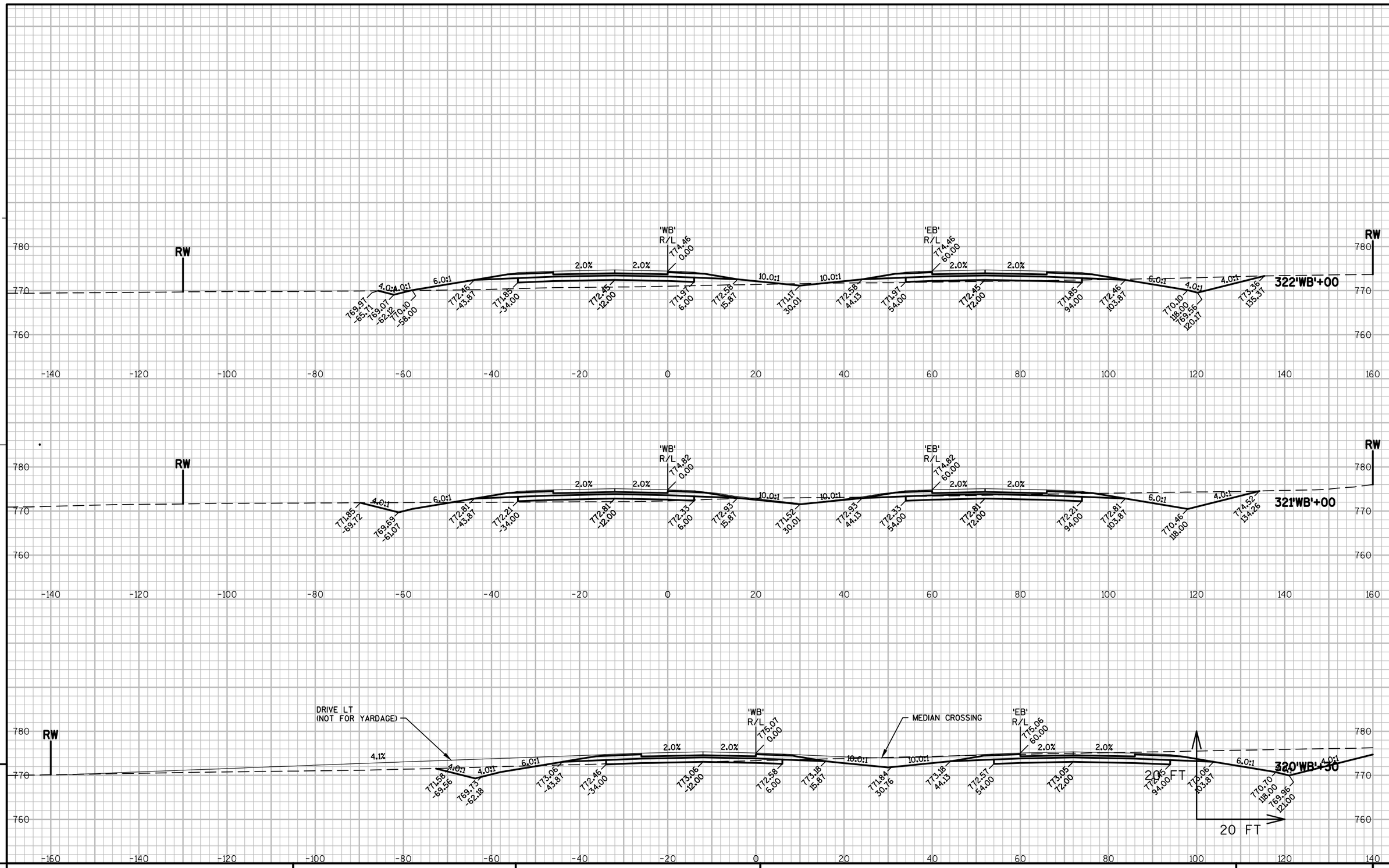
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090339_XS
PLOT DATE : 3/6/2017 1:00 PM
PLOT BY : SIMMONS, MASON A
PLOT NAME :
PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 276 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090340_XS

PLOT DATE : 3/6/2017 1:00 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

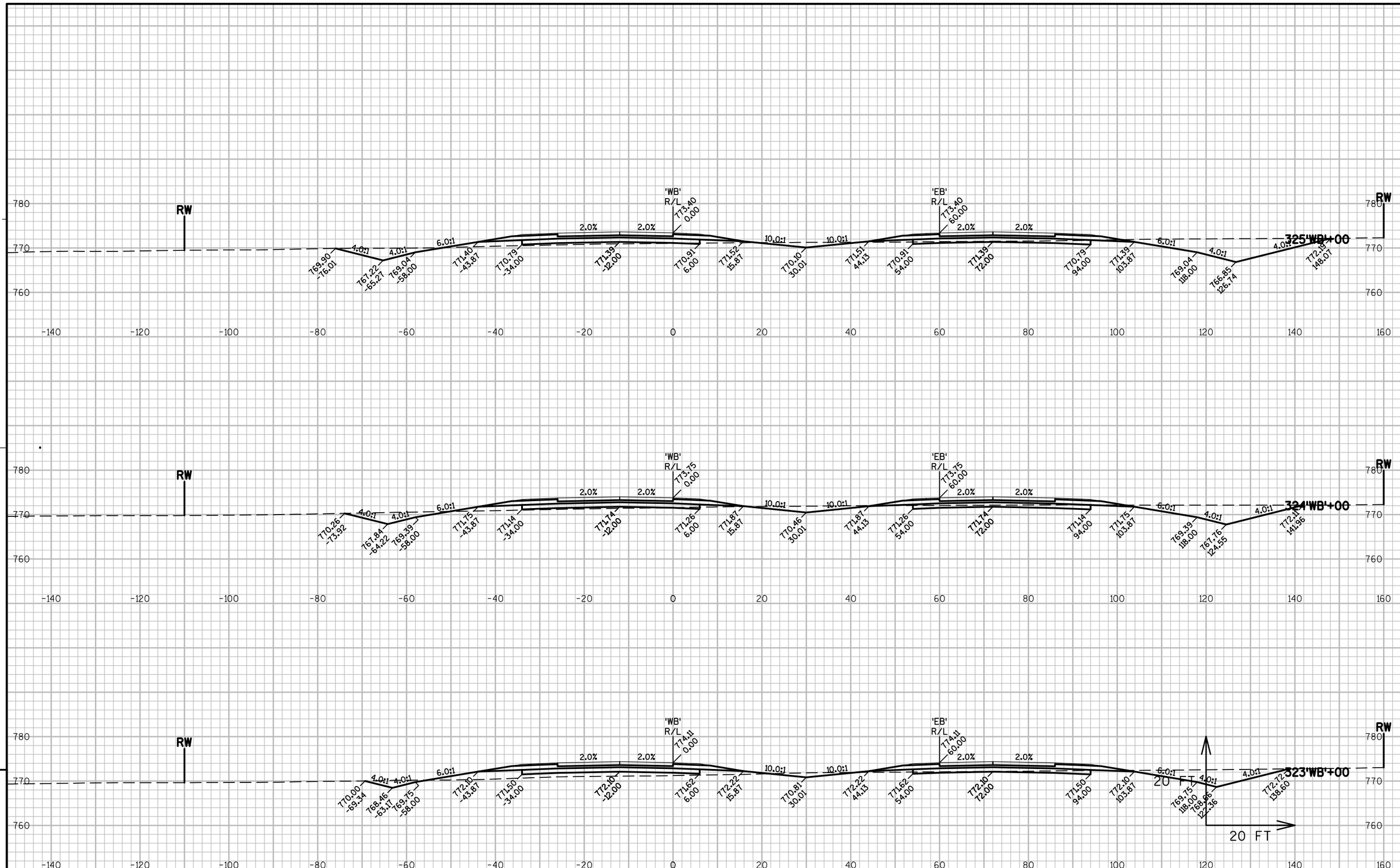


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 277	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090341_XS

PLOT DATE : 3/6/2017 1:00 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

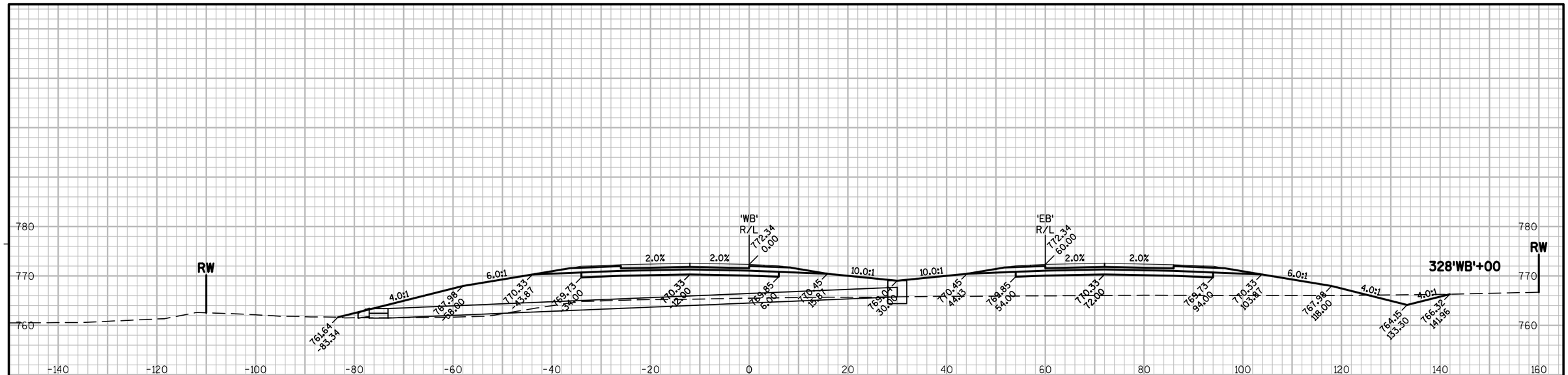


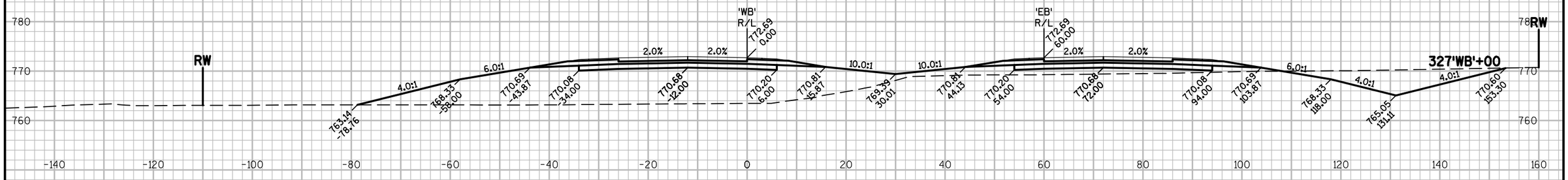
PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 278 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090342_XS

PLOT DATE : 3/6/2017 1:00 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49





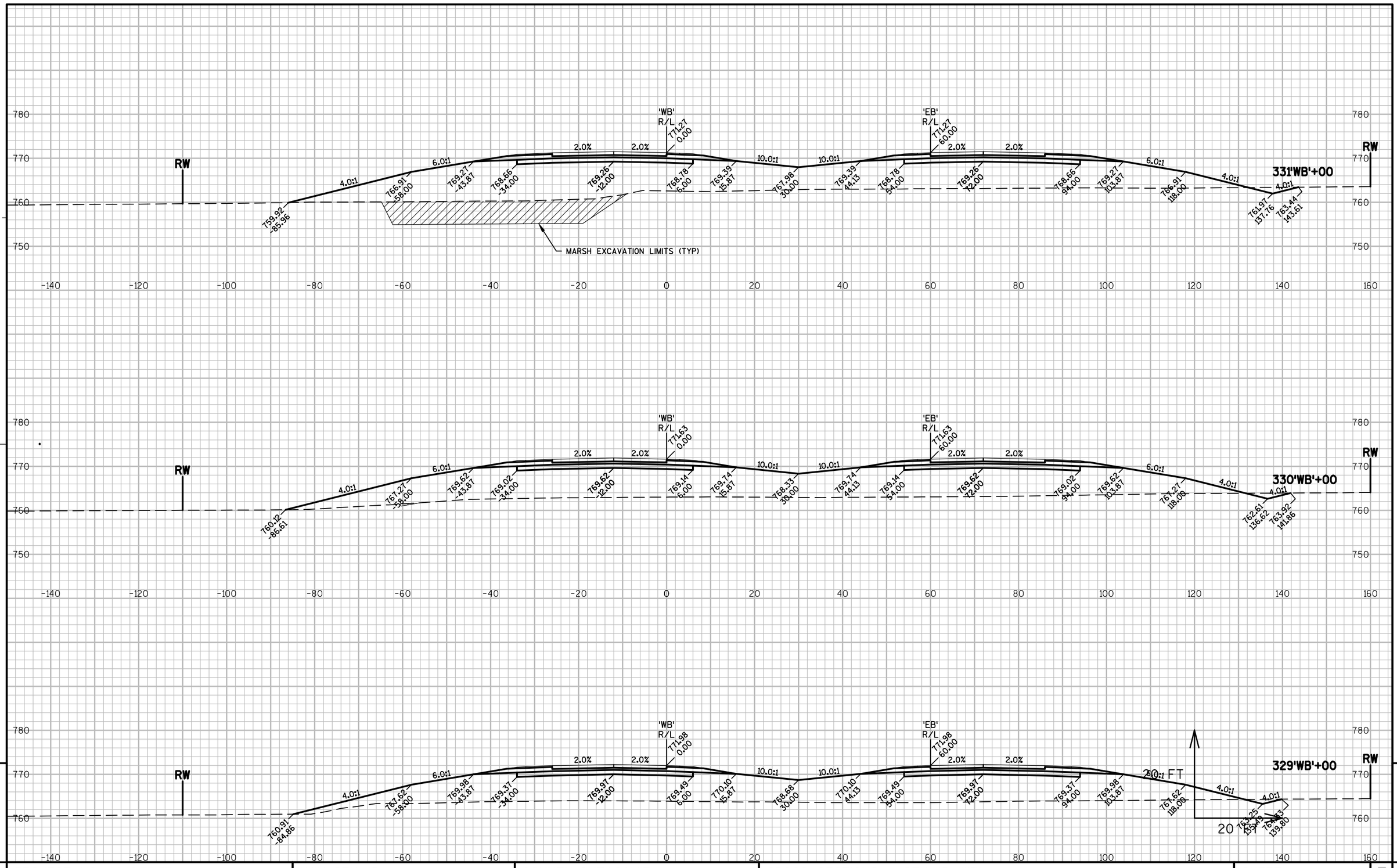


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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 279	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090343_XS
PLOT DATE : 3/6/2017 1:01 PM
PLOT BY : SIMMONS, MASON A
PLOT NAME :
PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 280	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090344_XS

PLOT DATE : 3/6/2017 1:01 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

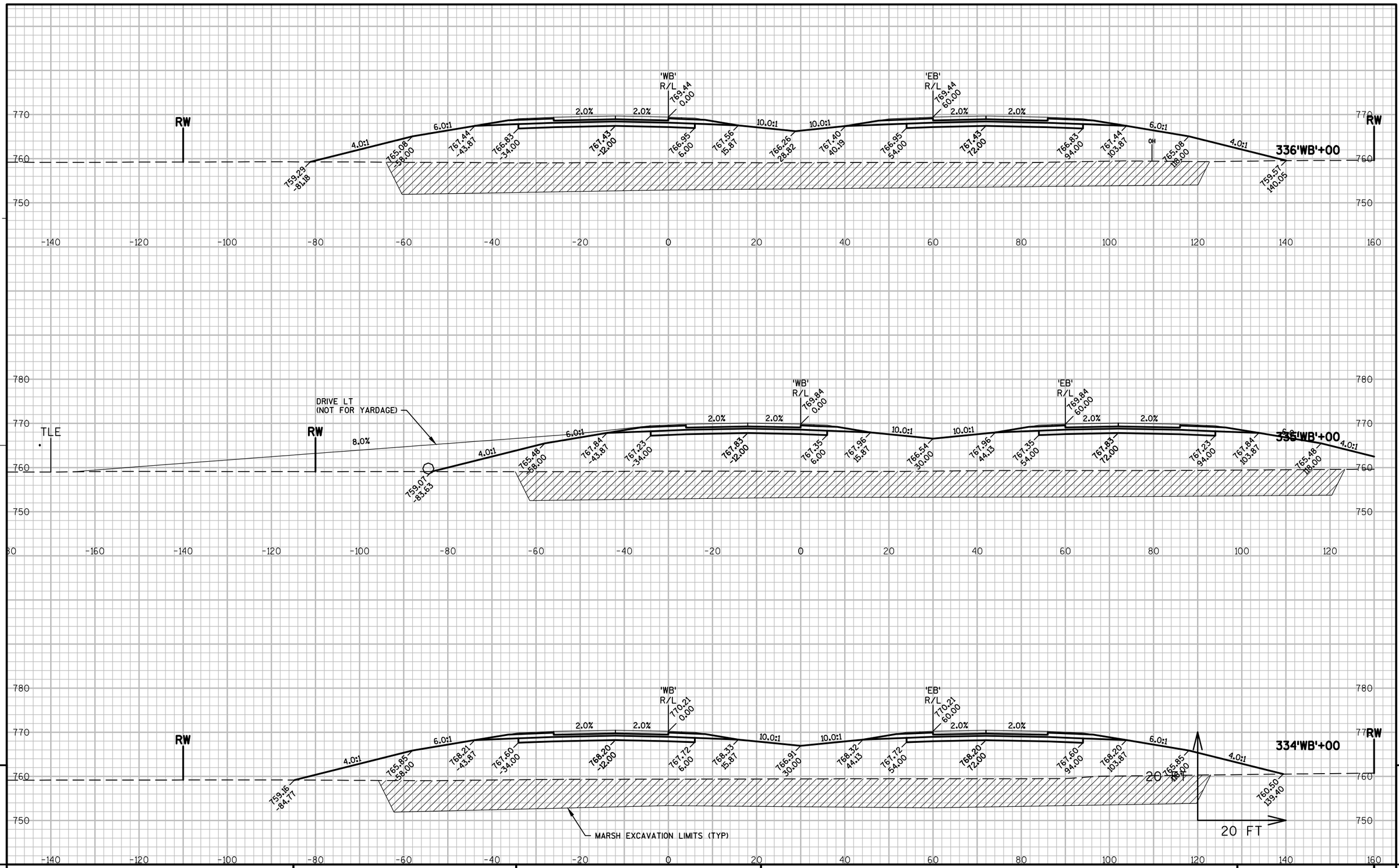
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 281	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090345_XS

PLOT DATE : 3/6/2017 1:01 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



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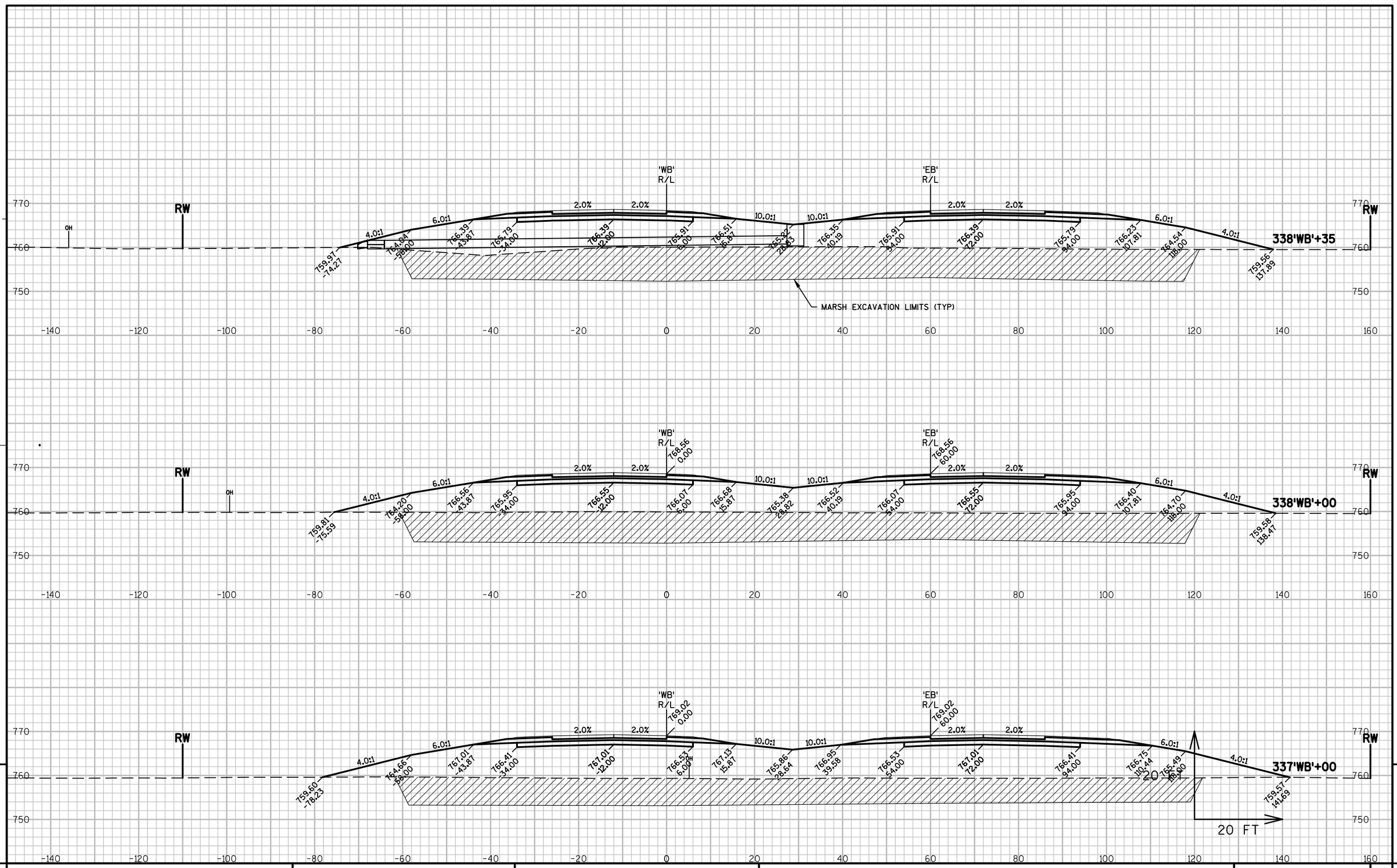
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 282	E

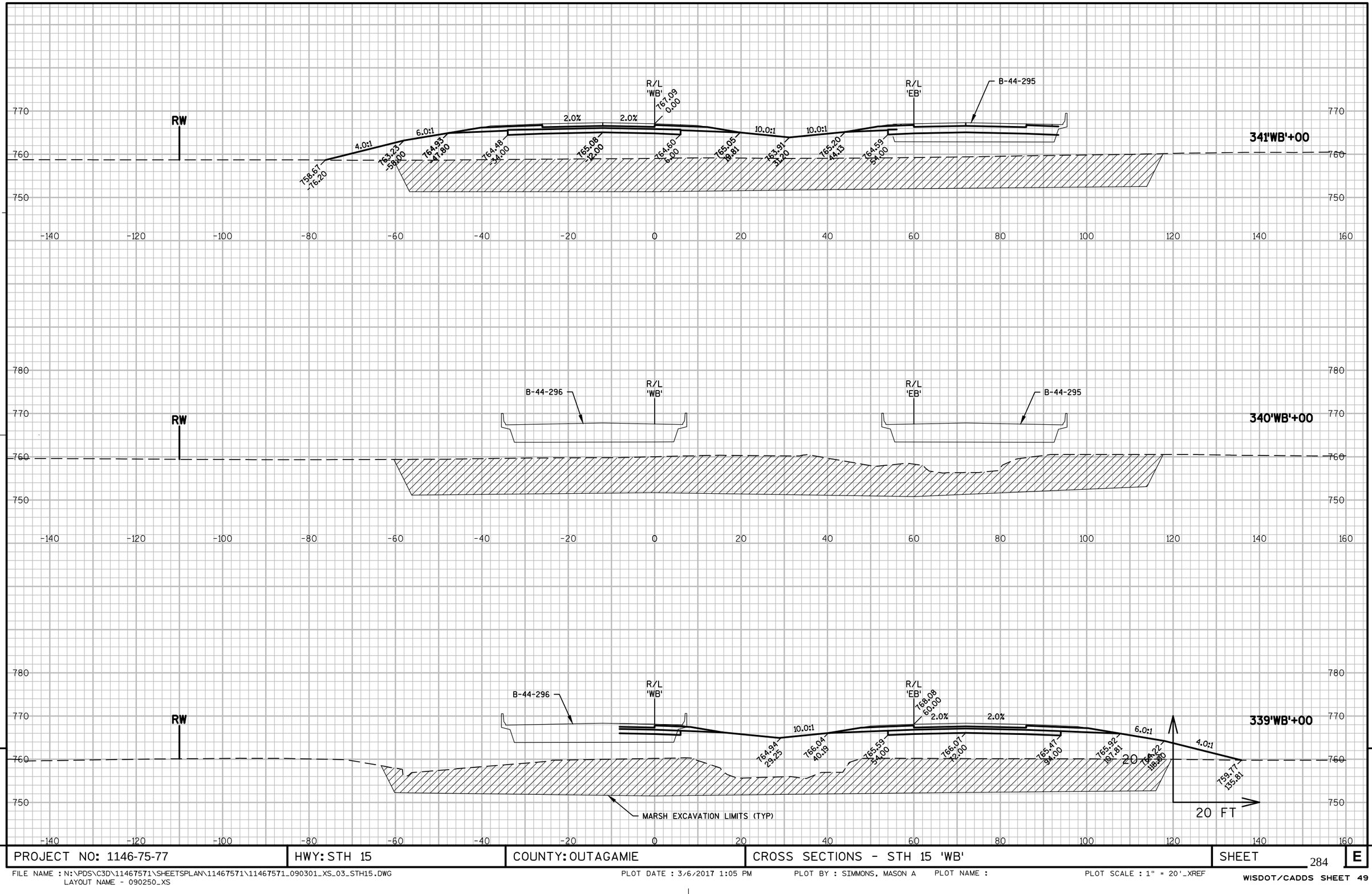
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090346_XS

PLOT DATE : 3/6/2017 1:01 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 283	E

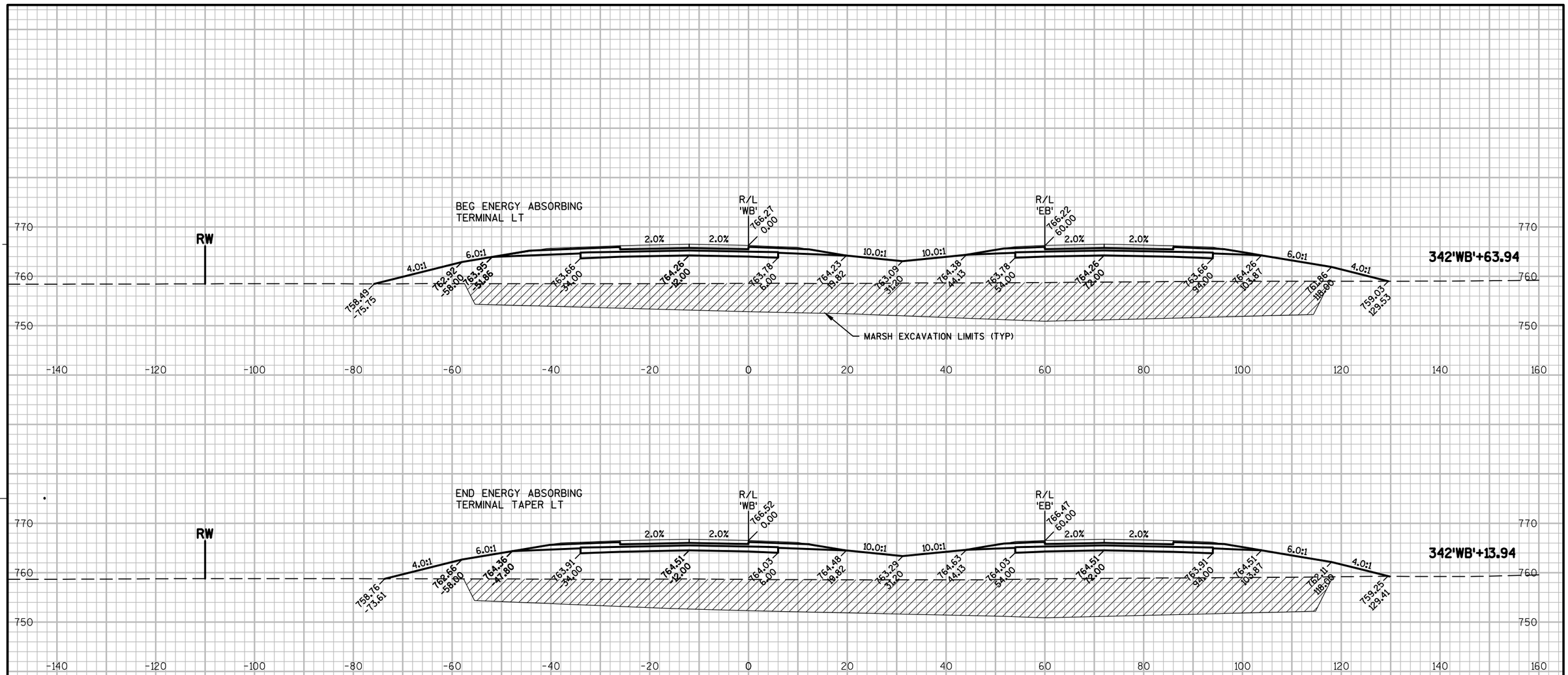


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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 284 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090250_XS
PLOT DATE : 3/6/2017 1:05 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



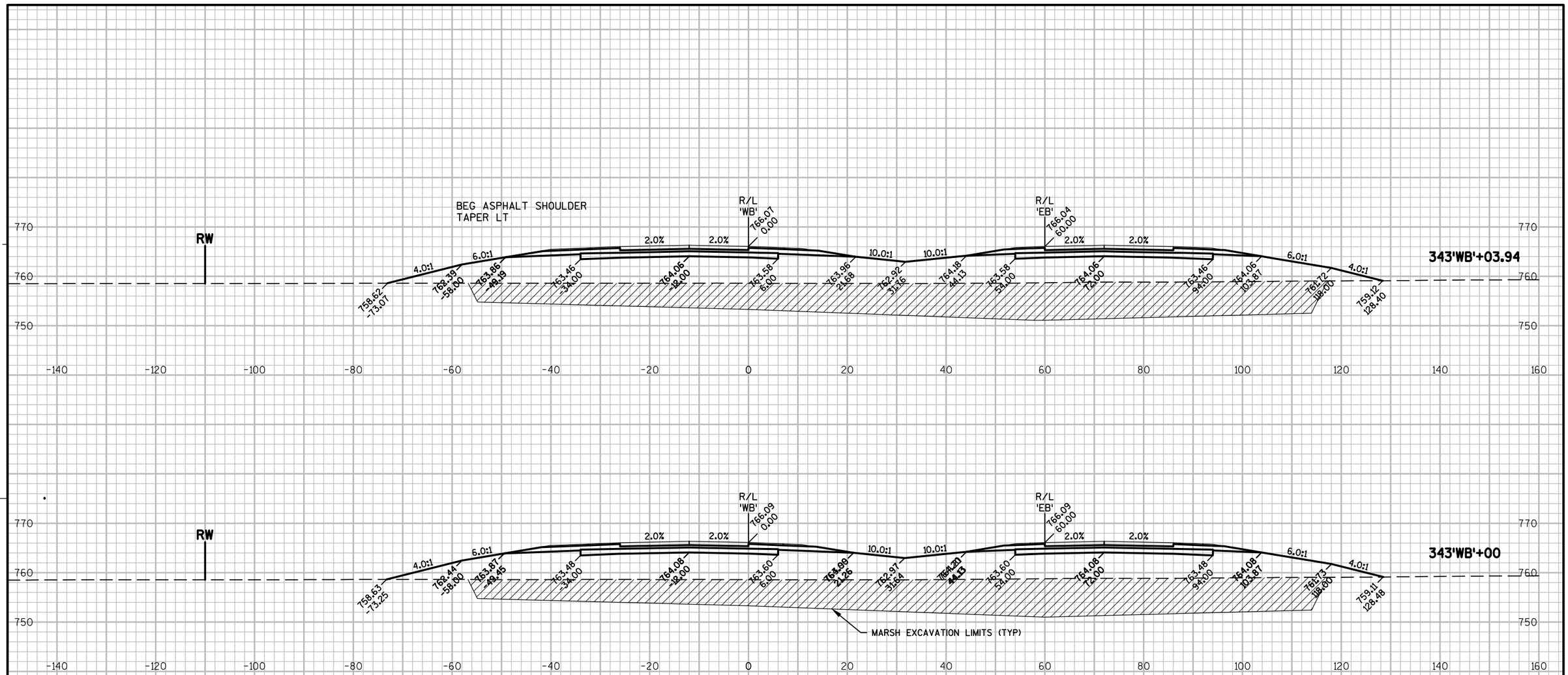
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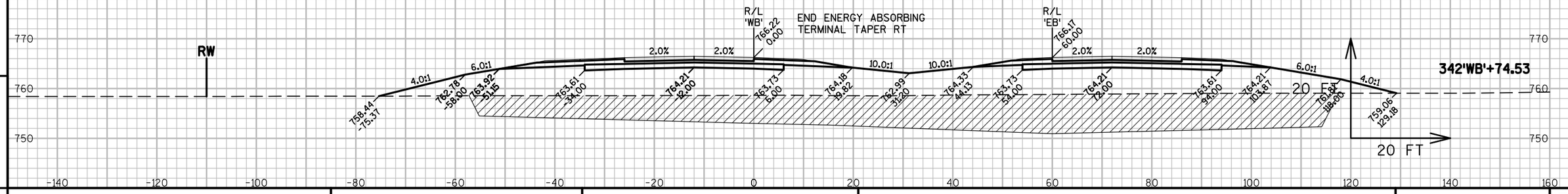
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 285	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090251_XS

PLOT DATE : 3/6/2017 1:05 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF





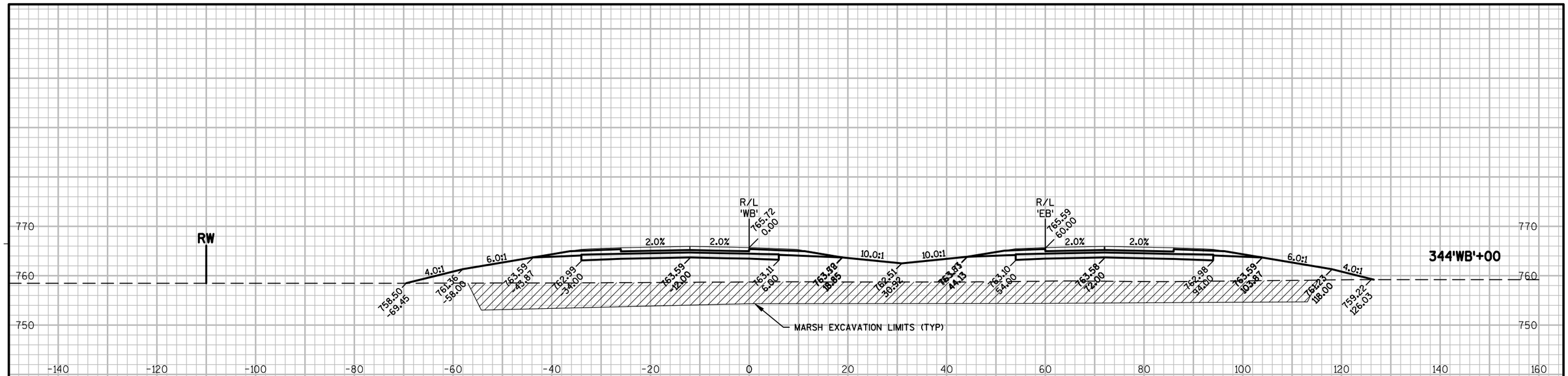
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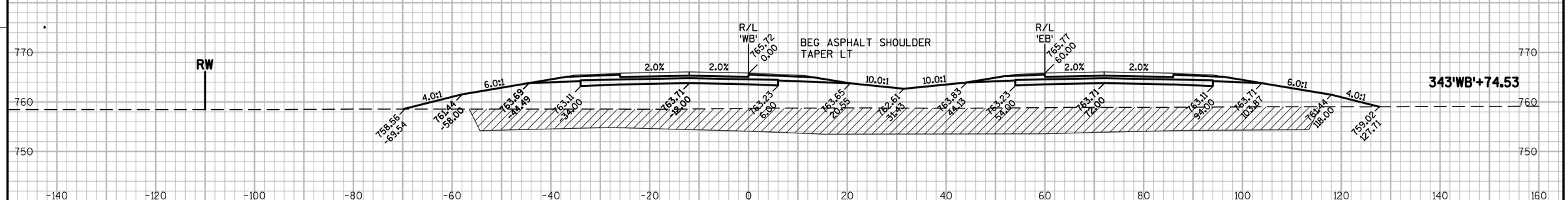
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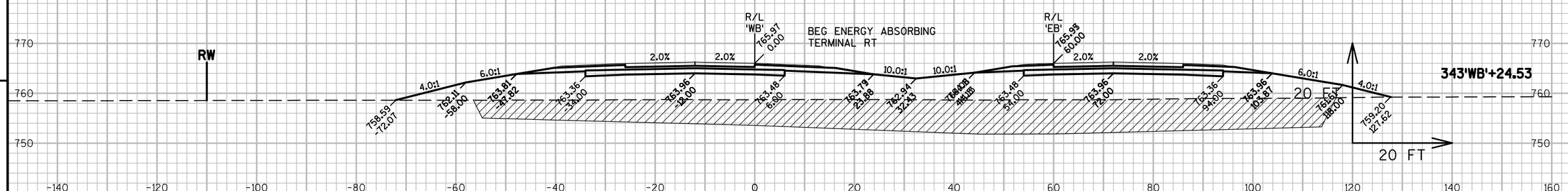
PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 286	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090252_XS

PLOT DATE : 3/6/2017 1:05 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF







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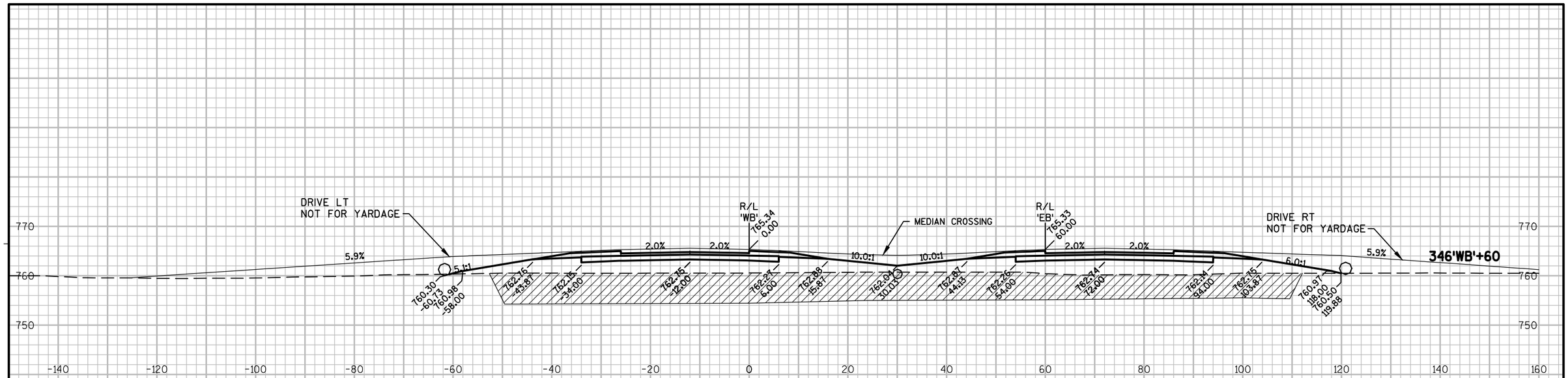
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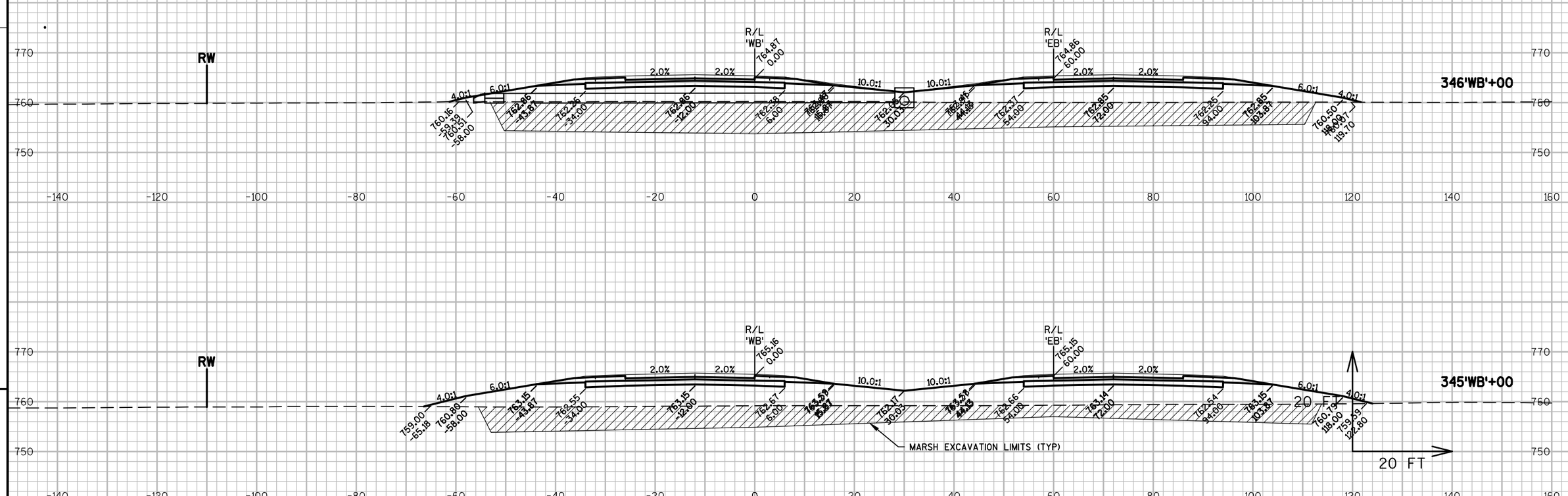
PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 287	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090253_XS

PLOT DATE : 3/6/2017 1:05 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49





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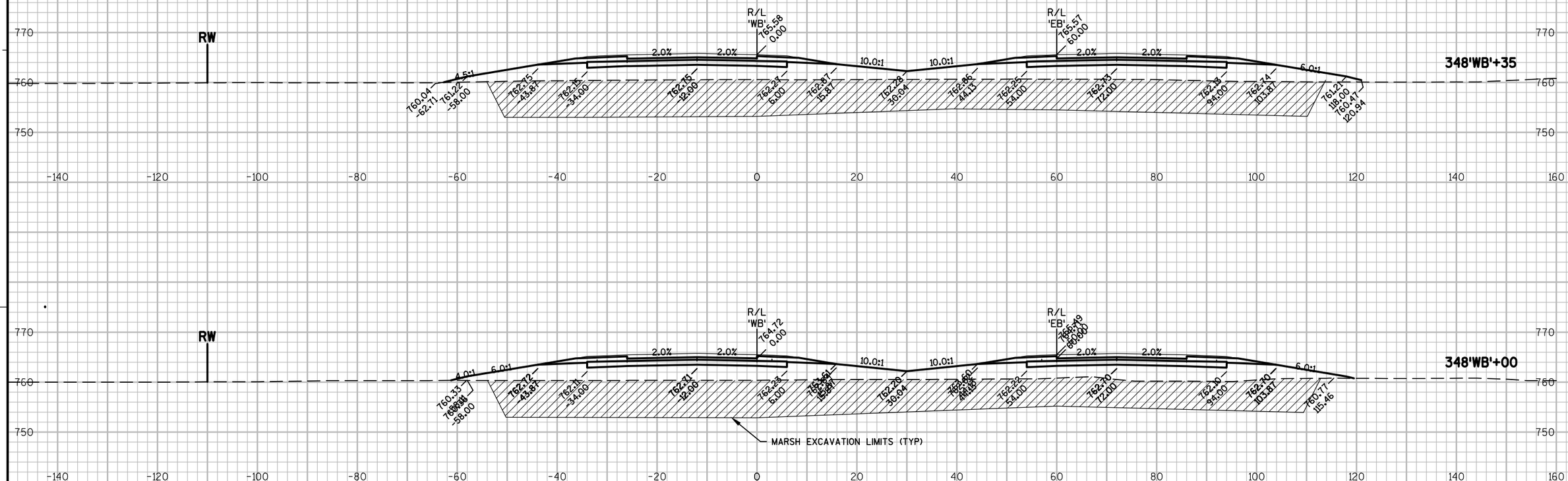
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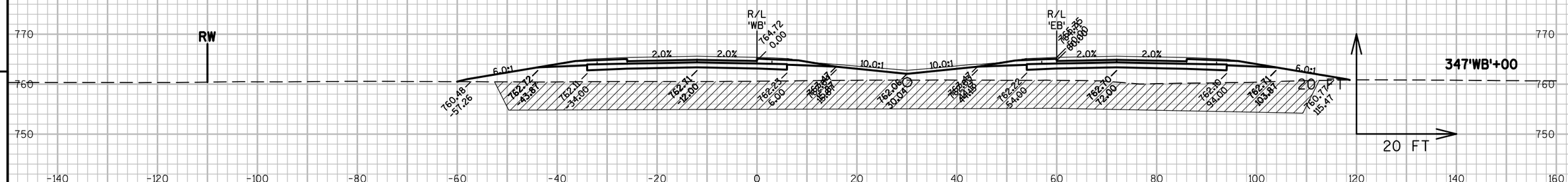
PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 288	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090254_XS

PLOT DATE : 3/6/2017 1:05 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49





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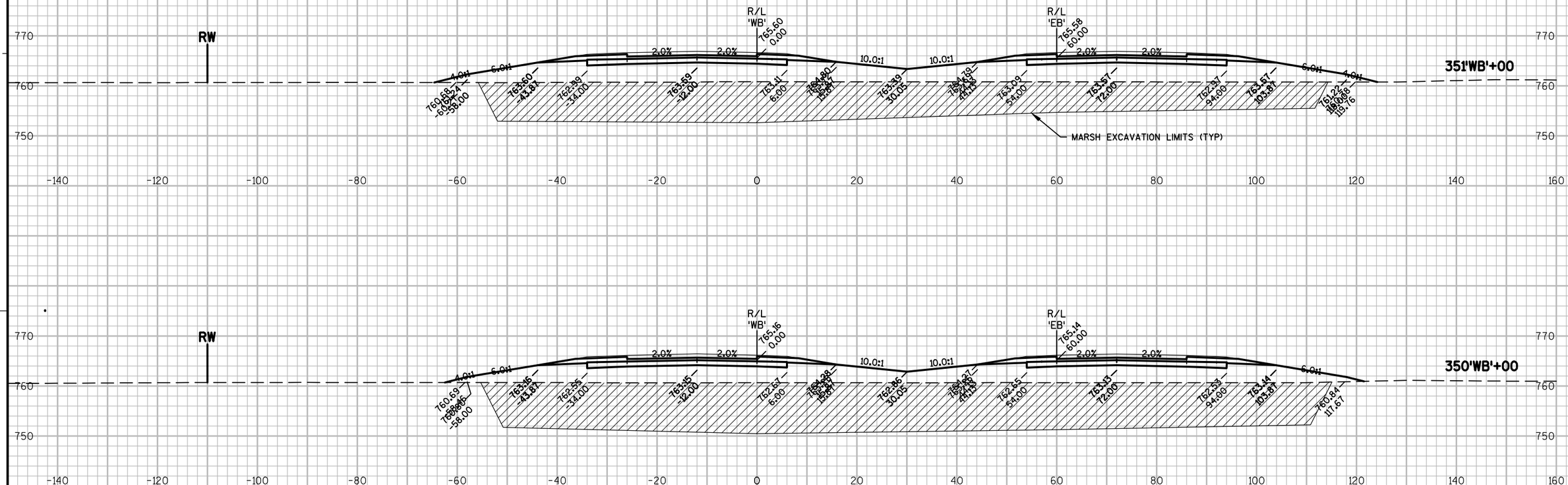
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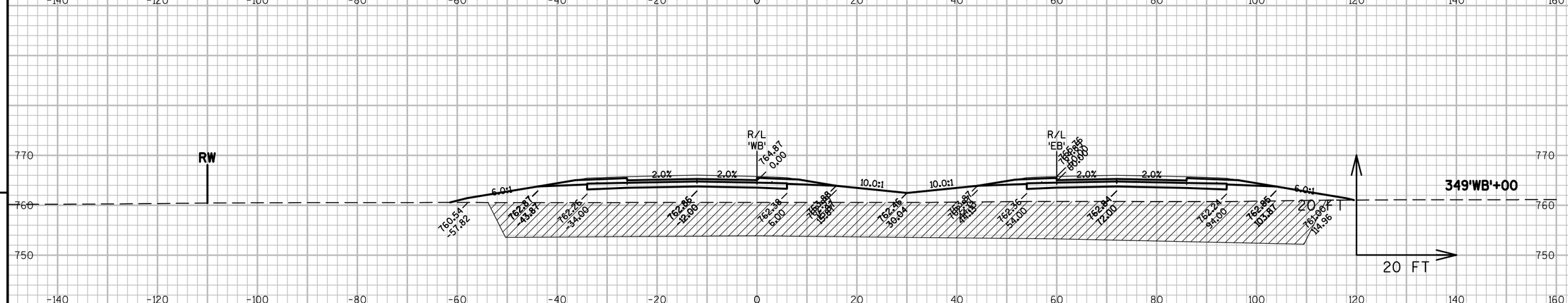
PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 289	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090255_XS

PLOT DATE : 3/6/2017 1:05 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49





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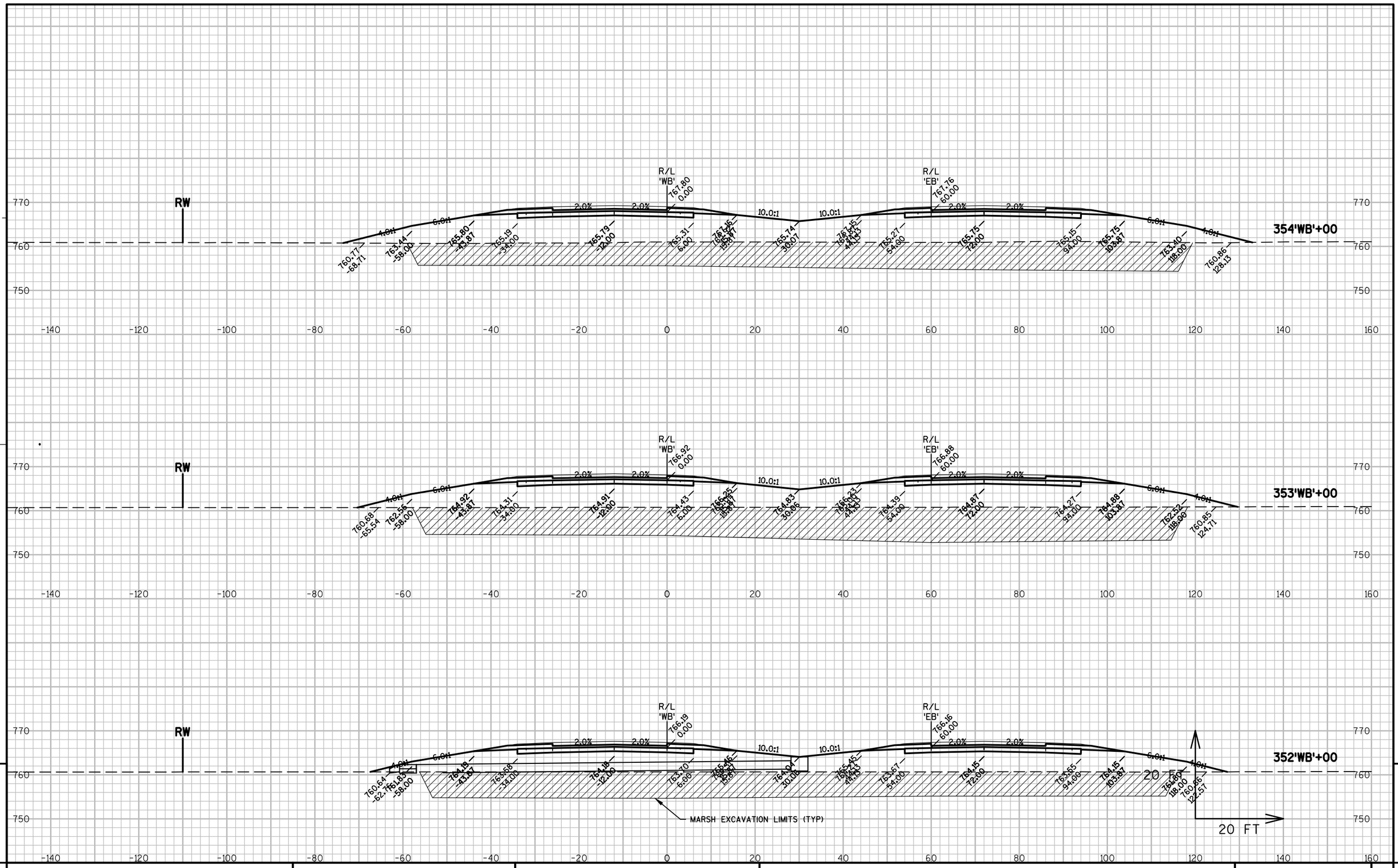
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 290	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090256_XS

PLOT DATE : 3/6/2017 1:05 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 291 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090257_XS

PLOT DATE : 3/6/2017 1:05 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

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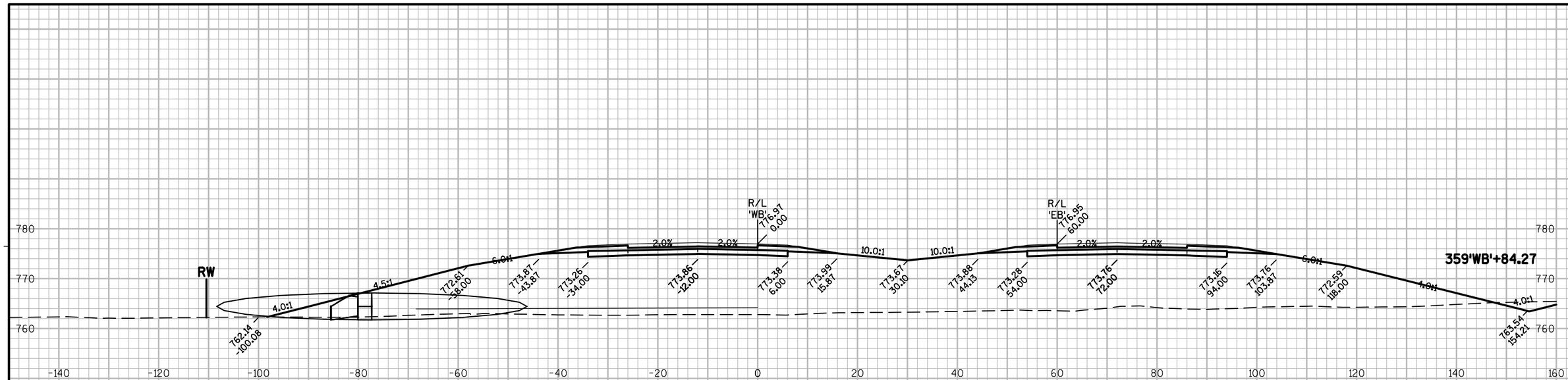
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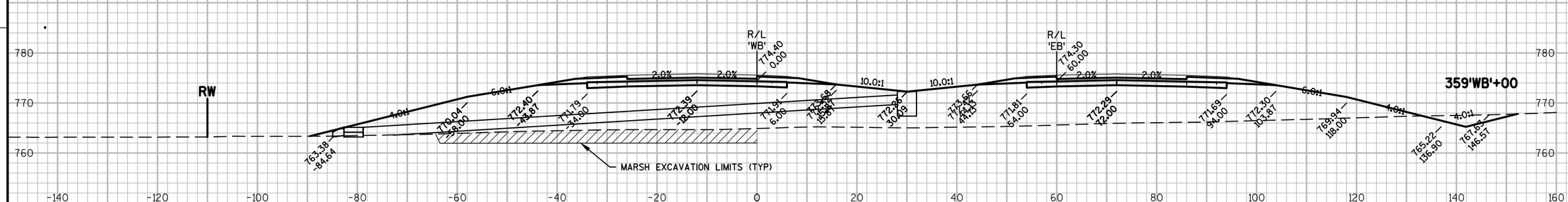
PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 292	E

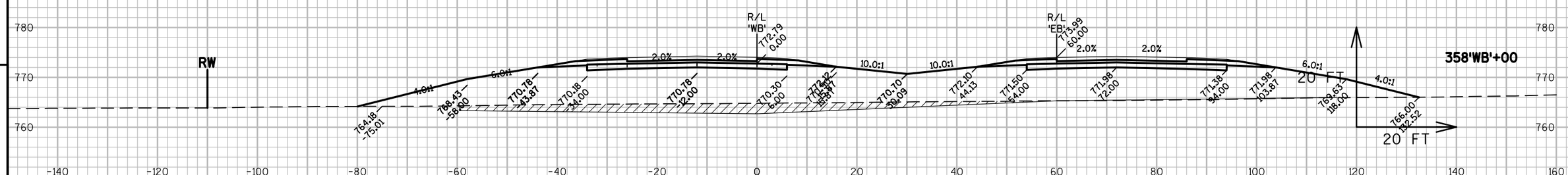
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LAYOUT NAME - 090258_XS

PLOT DATE : 3/6/2017 1:06 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49





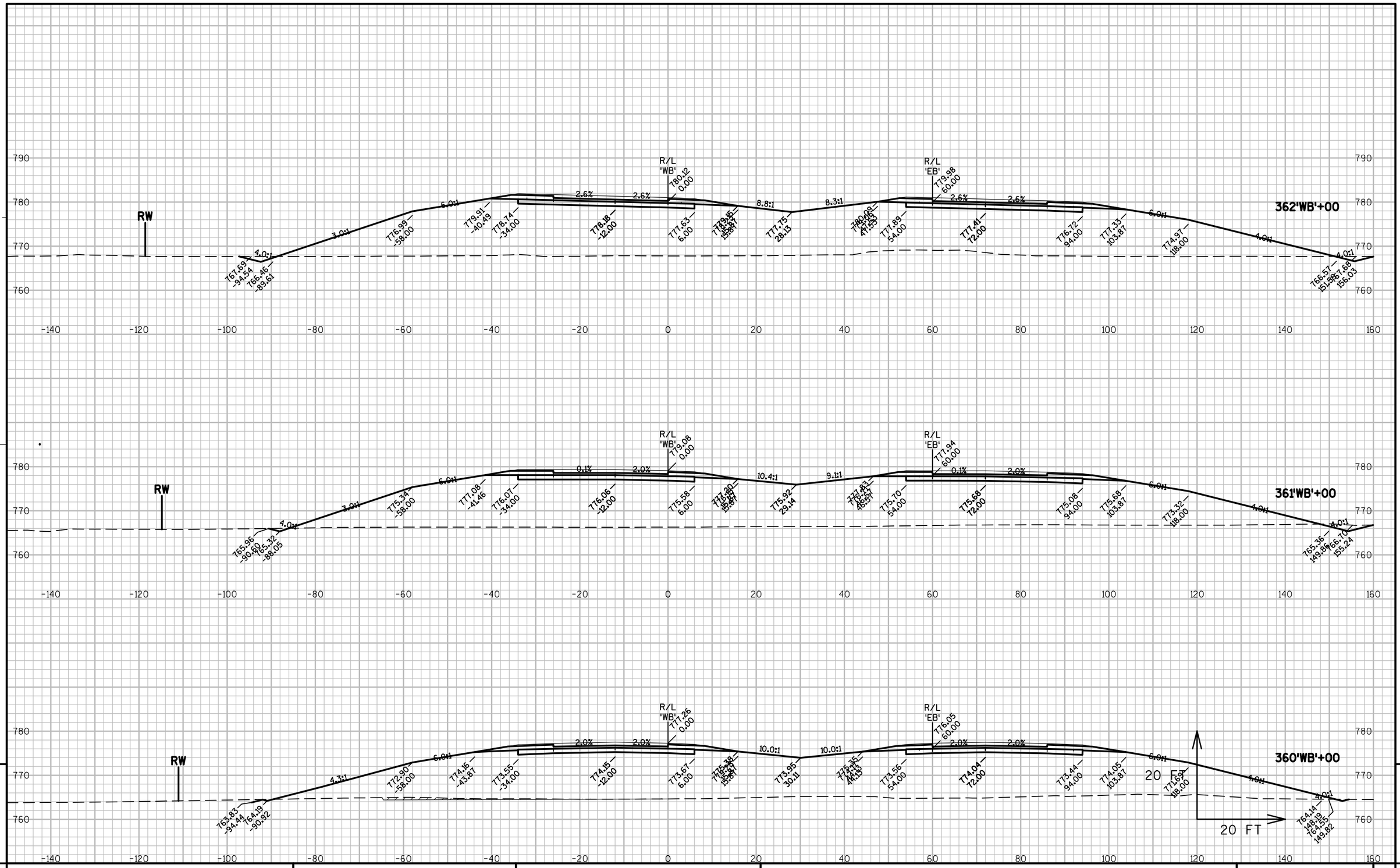


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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 293	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090259_XS
PLOT DATE : 3/6/2017 1:06 PM
PLOT BY : SIMMONS, MASON A
PLOT NAME :
PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



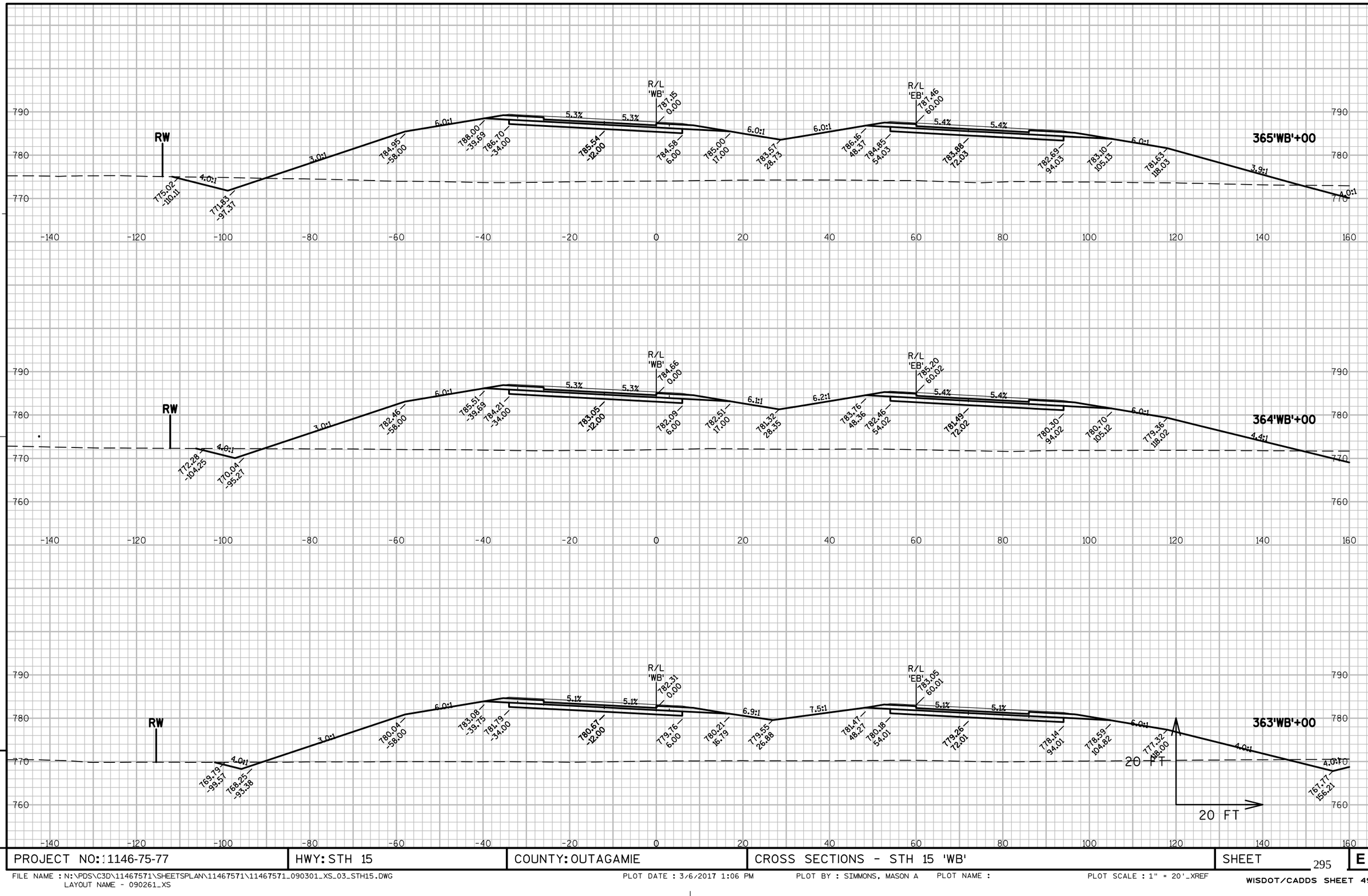
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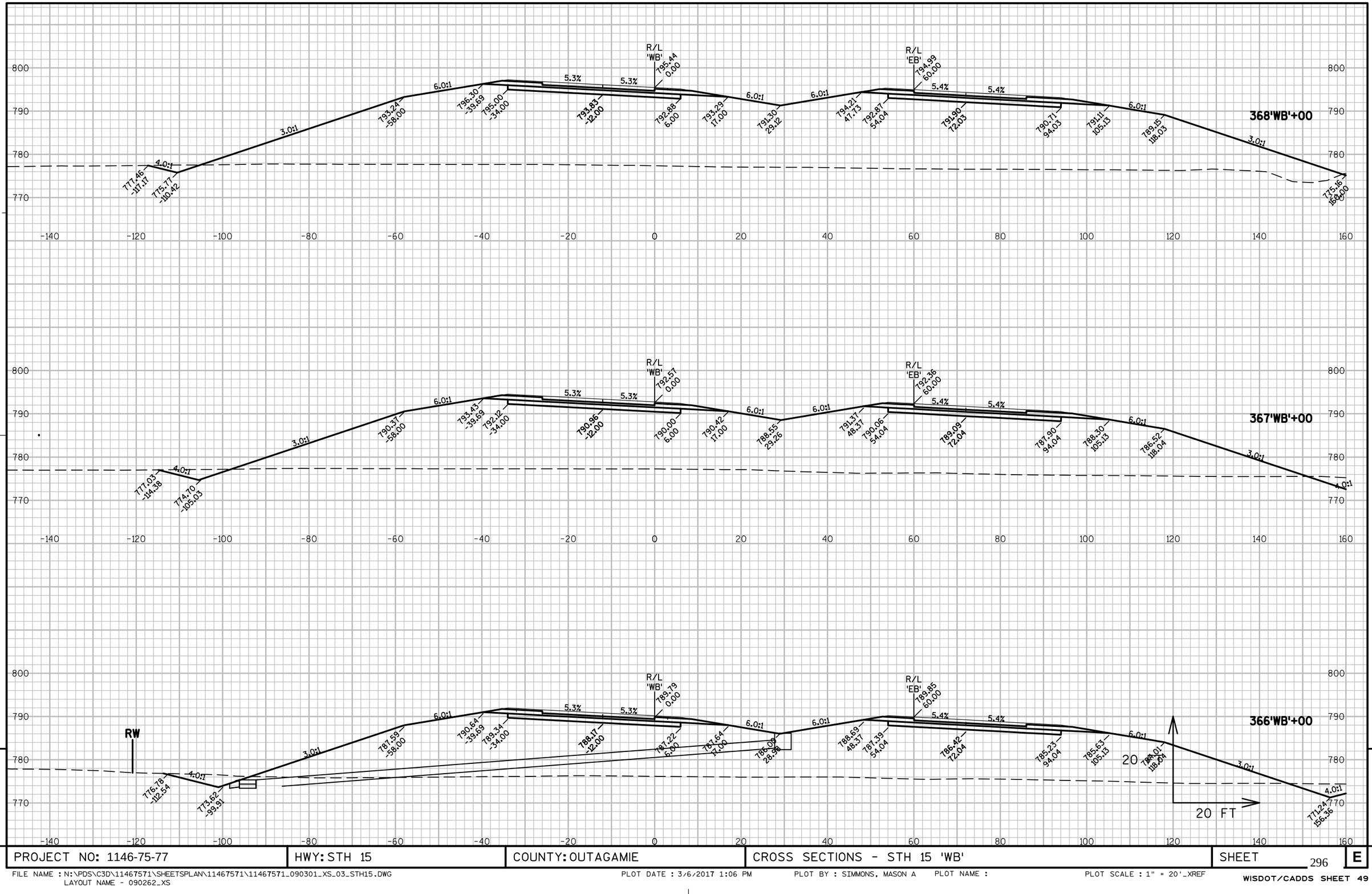
PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 294	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090260_XS

PLOT DATE : 3/6/2017 1:06 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

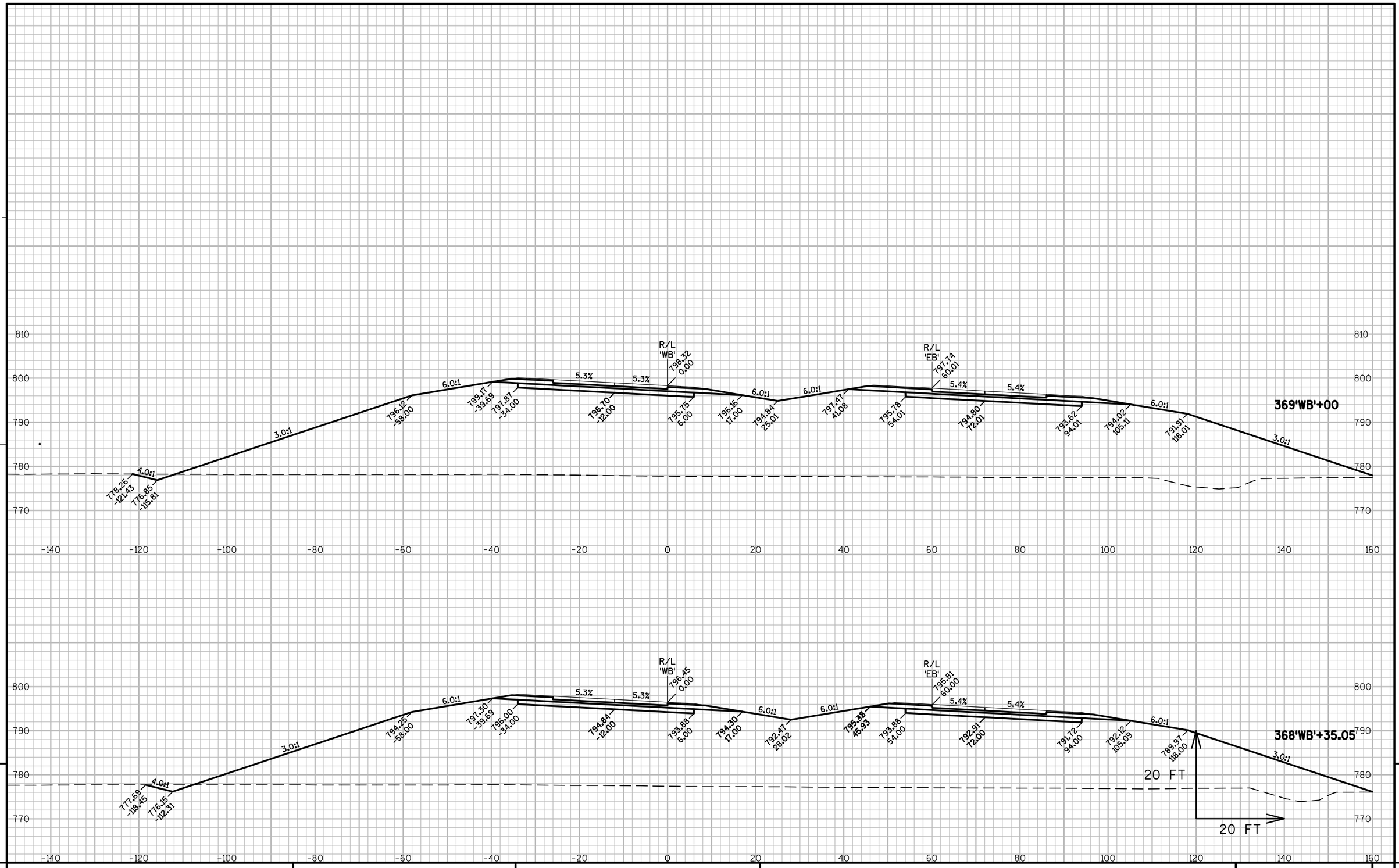


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 295	E



PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 296 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090262_XS
PLOT DATE : 3/6/2017 1:06 PM
PLOT BY : SIMMONS, MASON A
PLOT NAME :
PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



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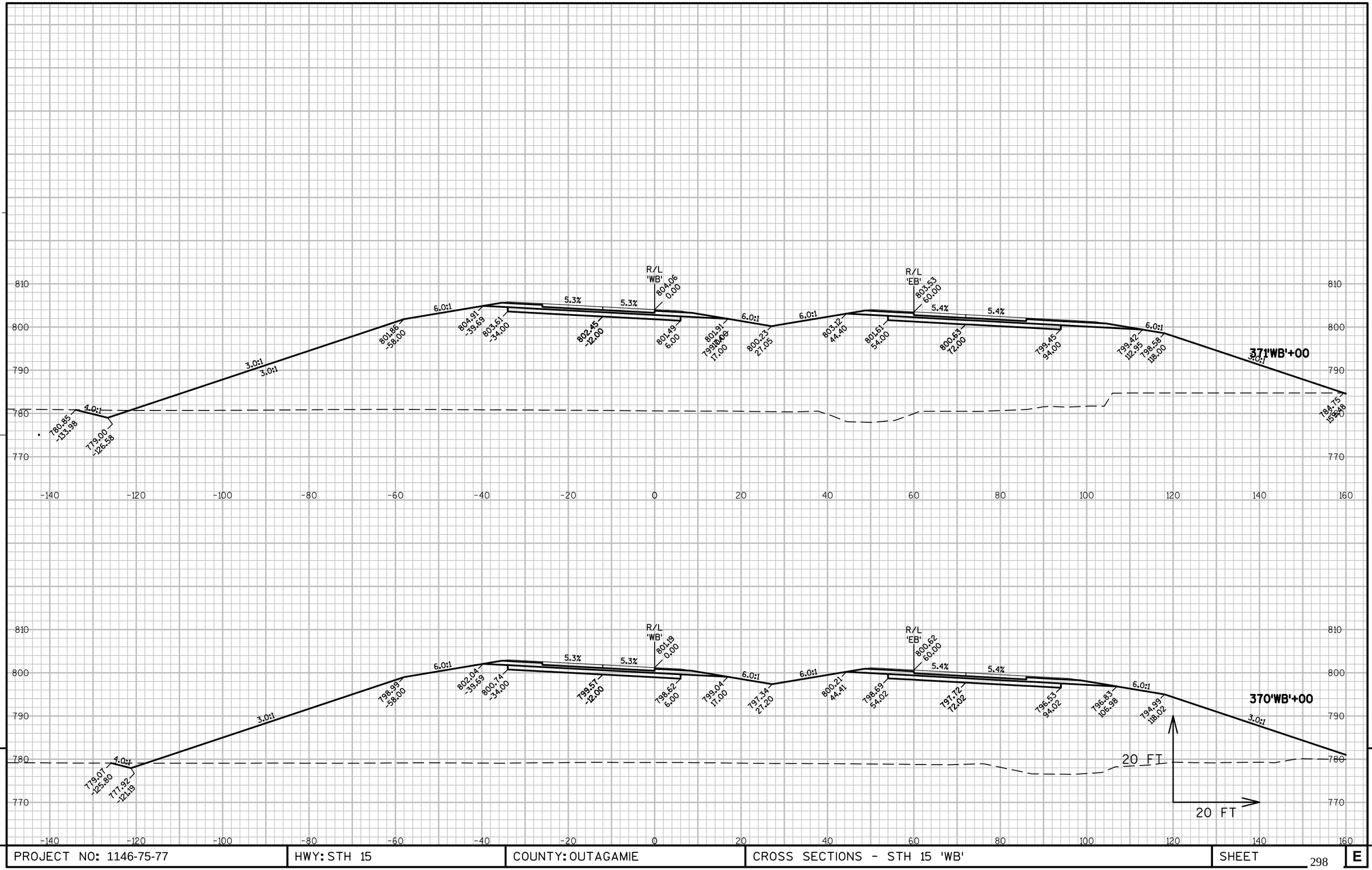
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 297	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090263_XS

PLOT DATE : 3/6/2017 1:06 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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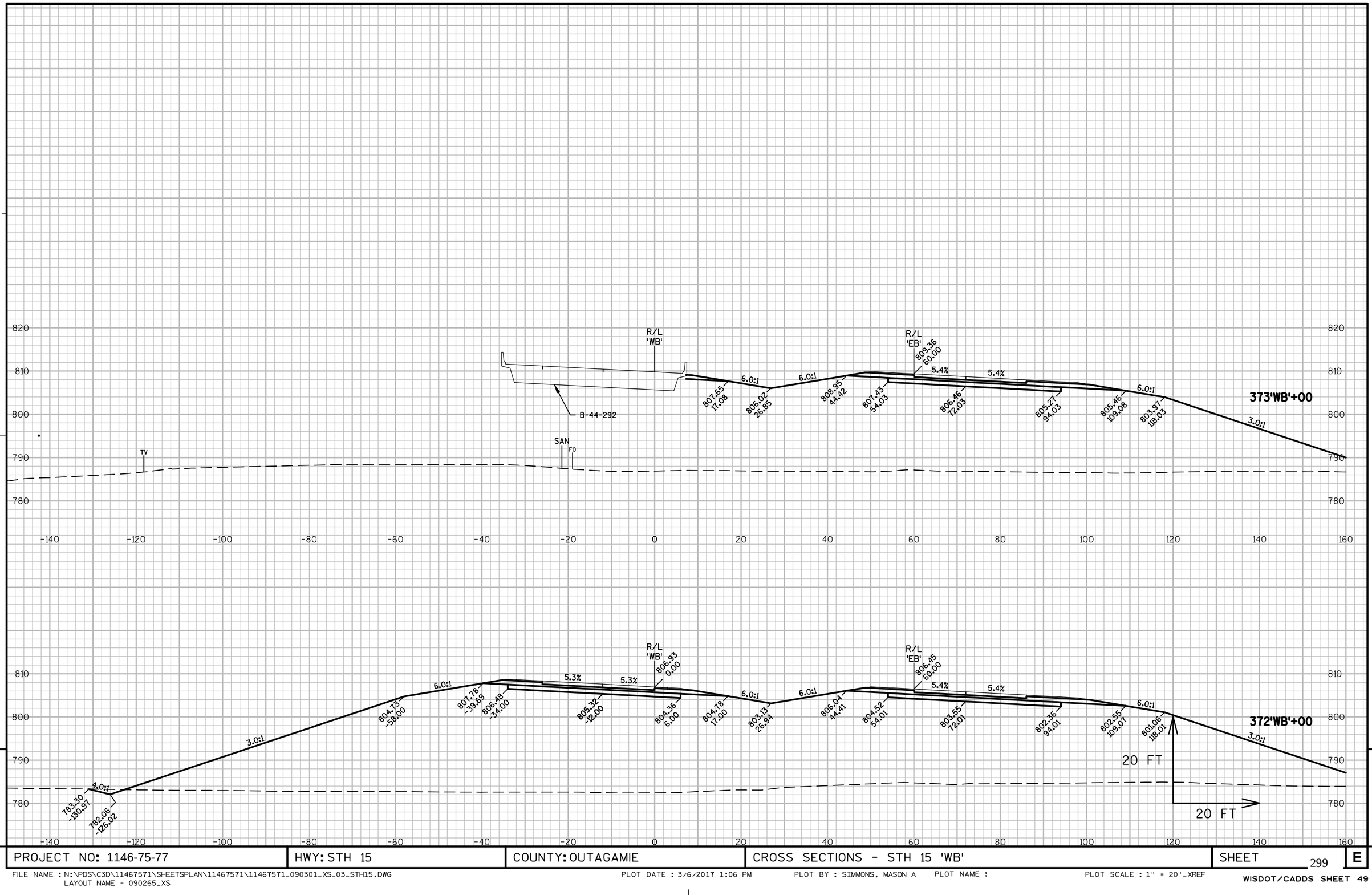
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 298	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090264_XS

PLOT DATE : 3/6/2017 1:06 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

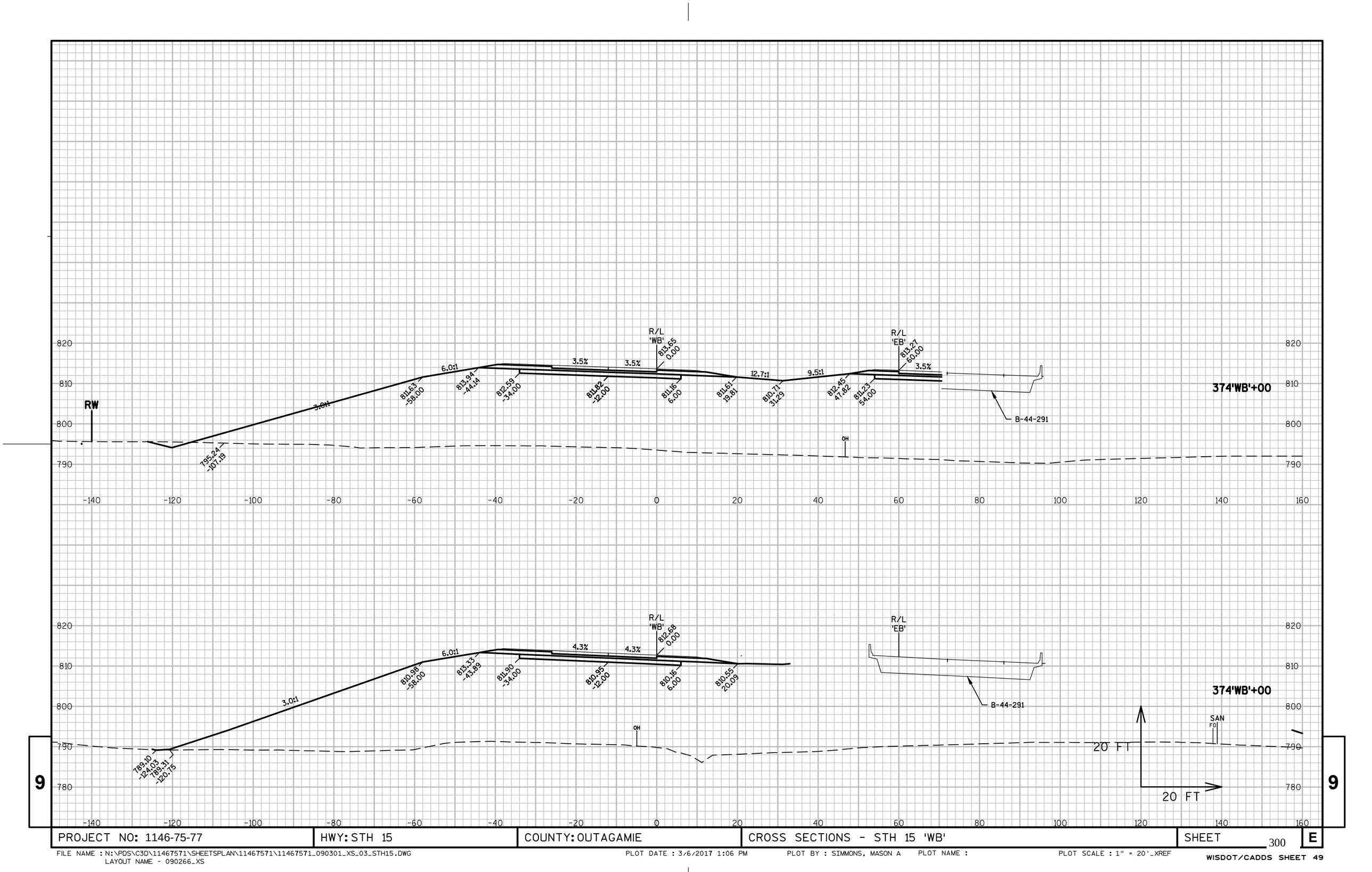


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 299	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090265_XS

PLOT DATE : 3/6/2017 1:06 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



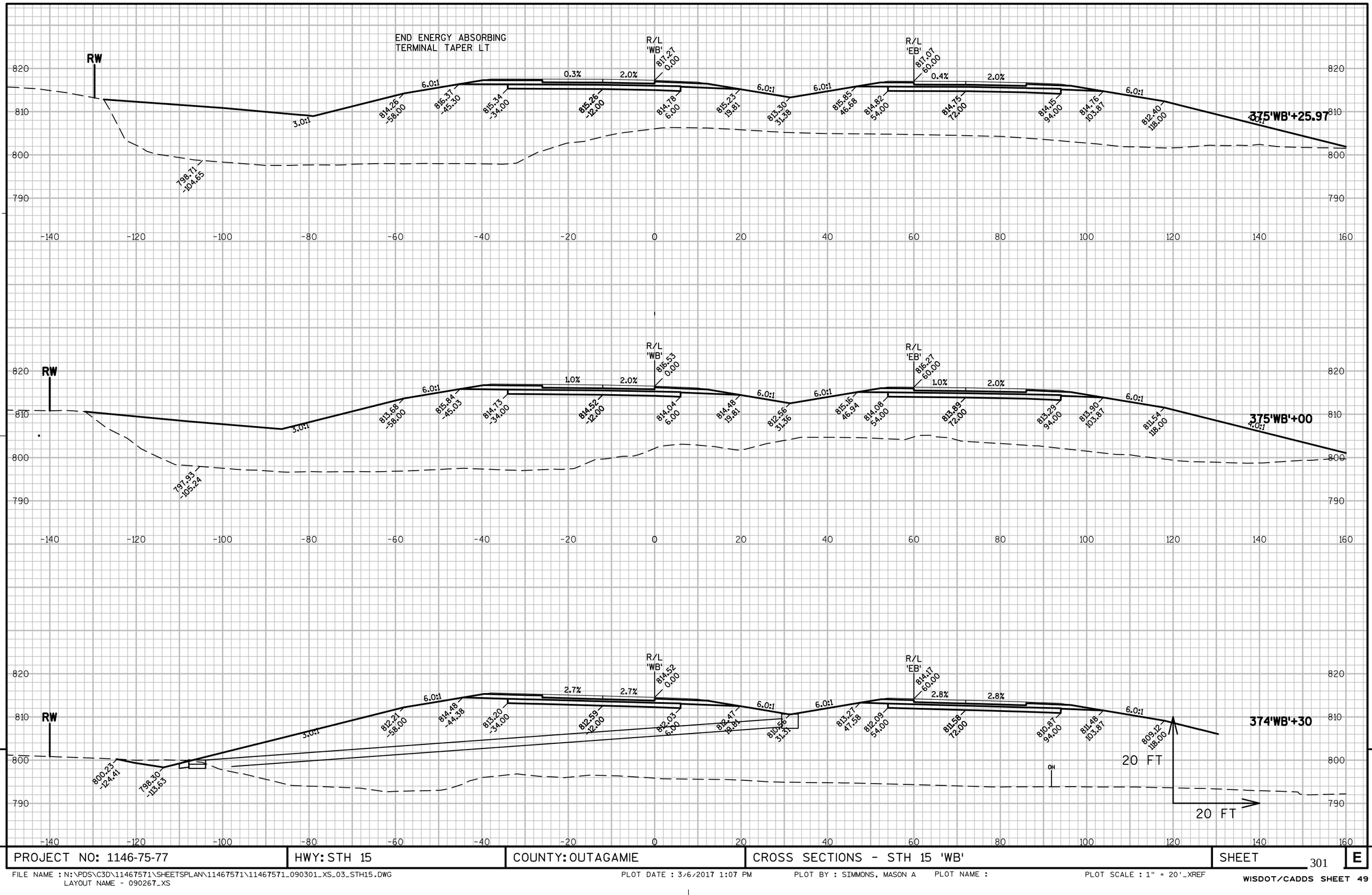
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 300	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090266_XS

PLOT DATE : 3/6/2017 1:06 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

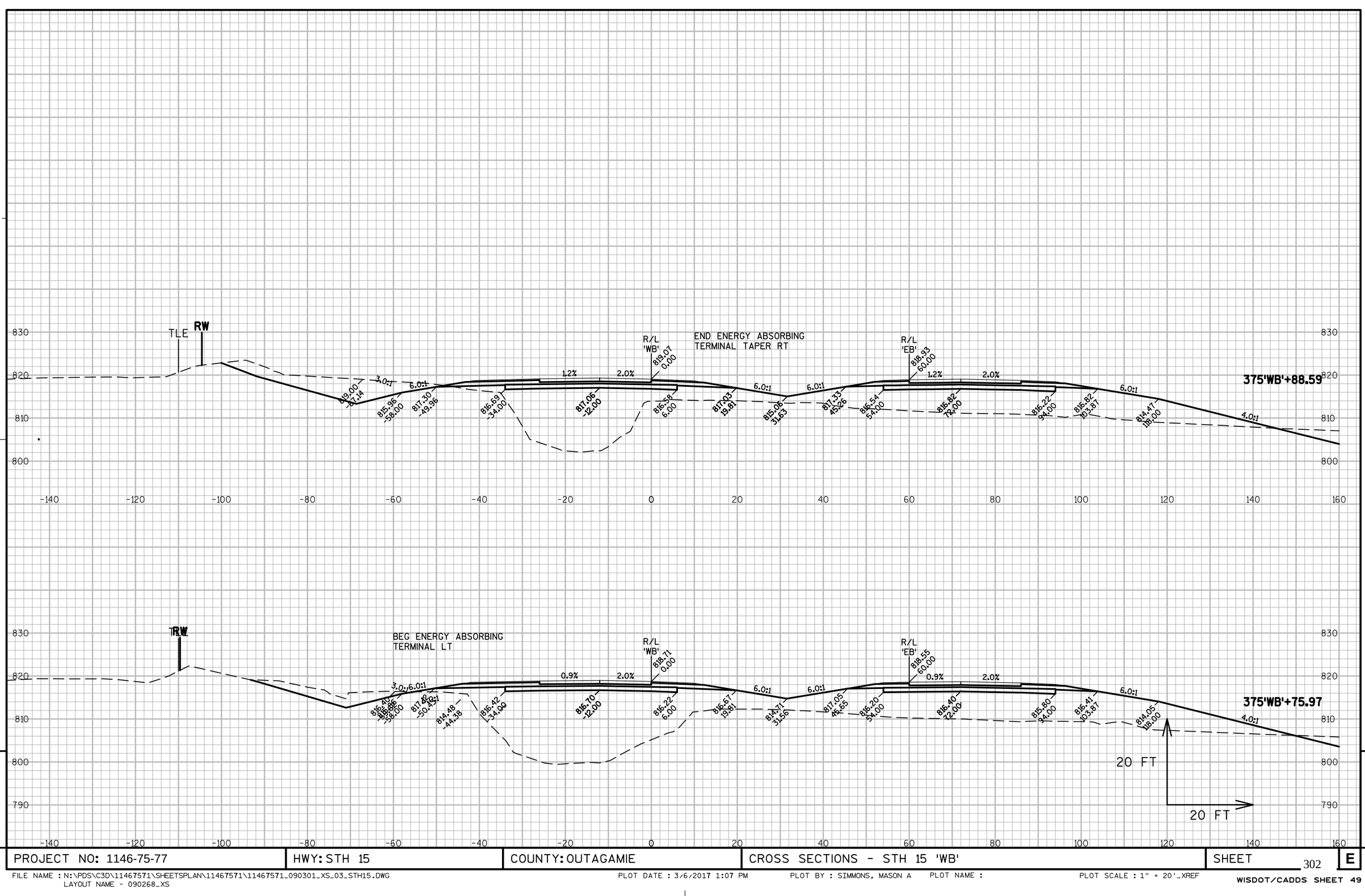


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 301	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090267_XS

PLOT DATE : 3/6/2017 1:07 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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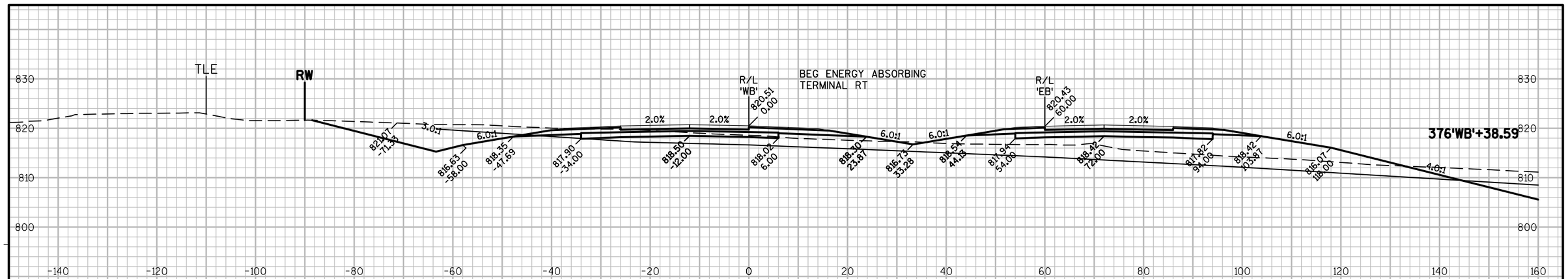
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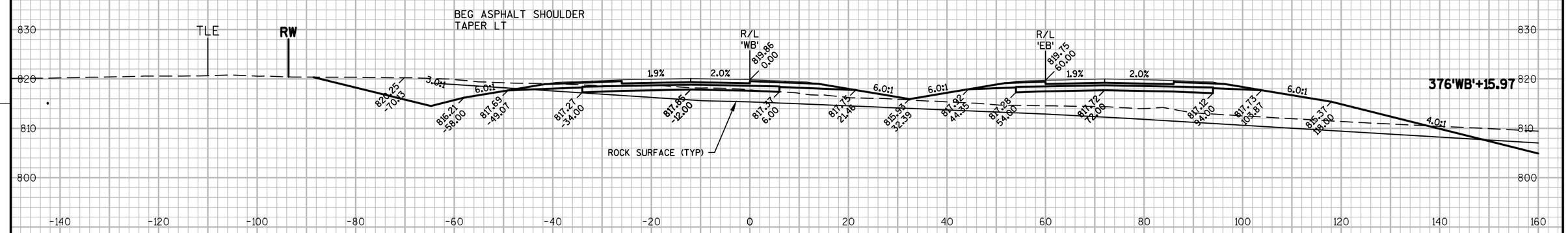
PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 302	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090268_XS

PLOT DATE : 3/6/2017 1:07 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49





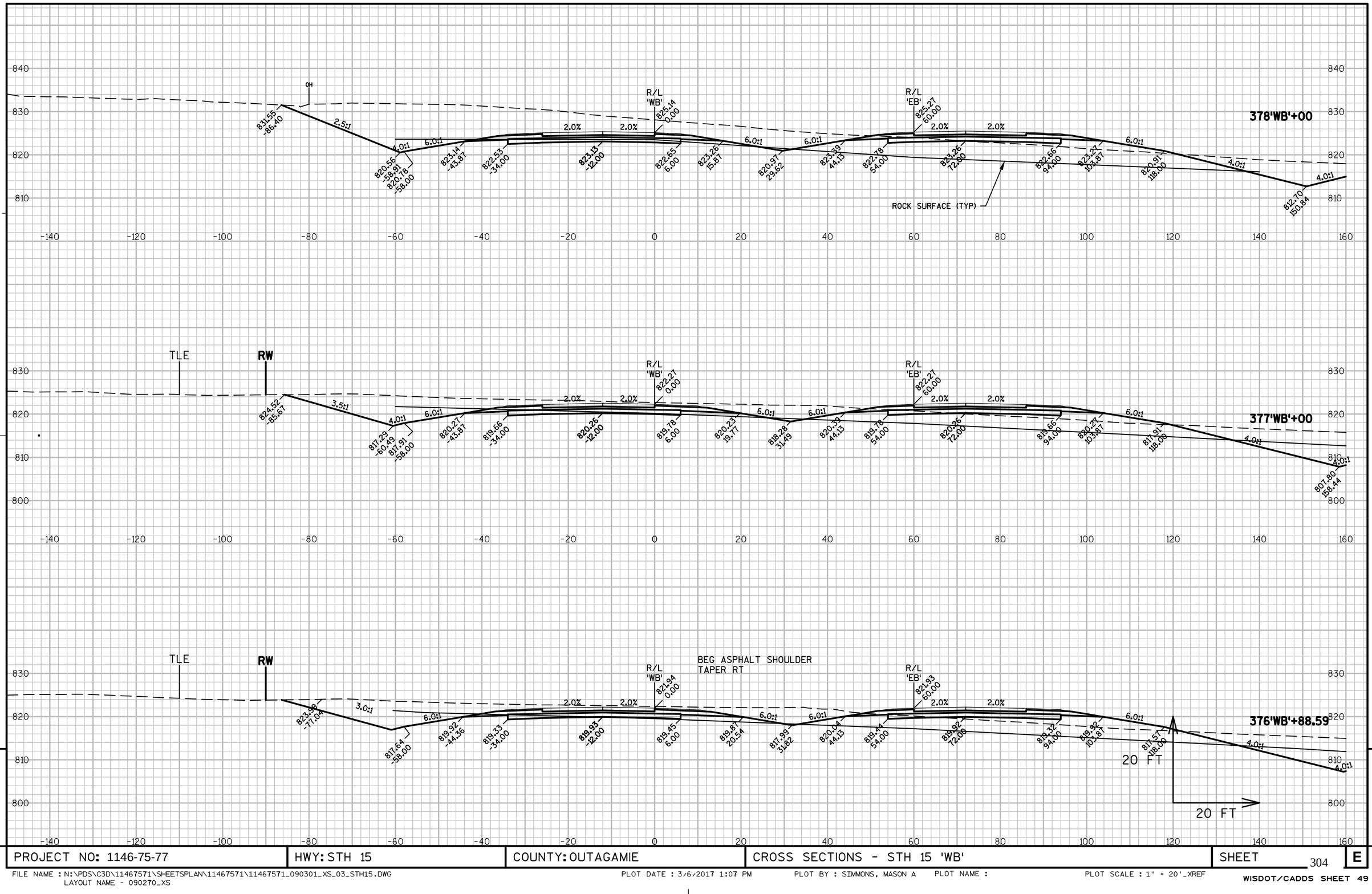


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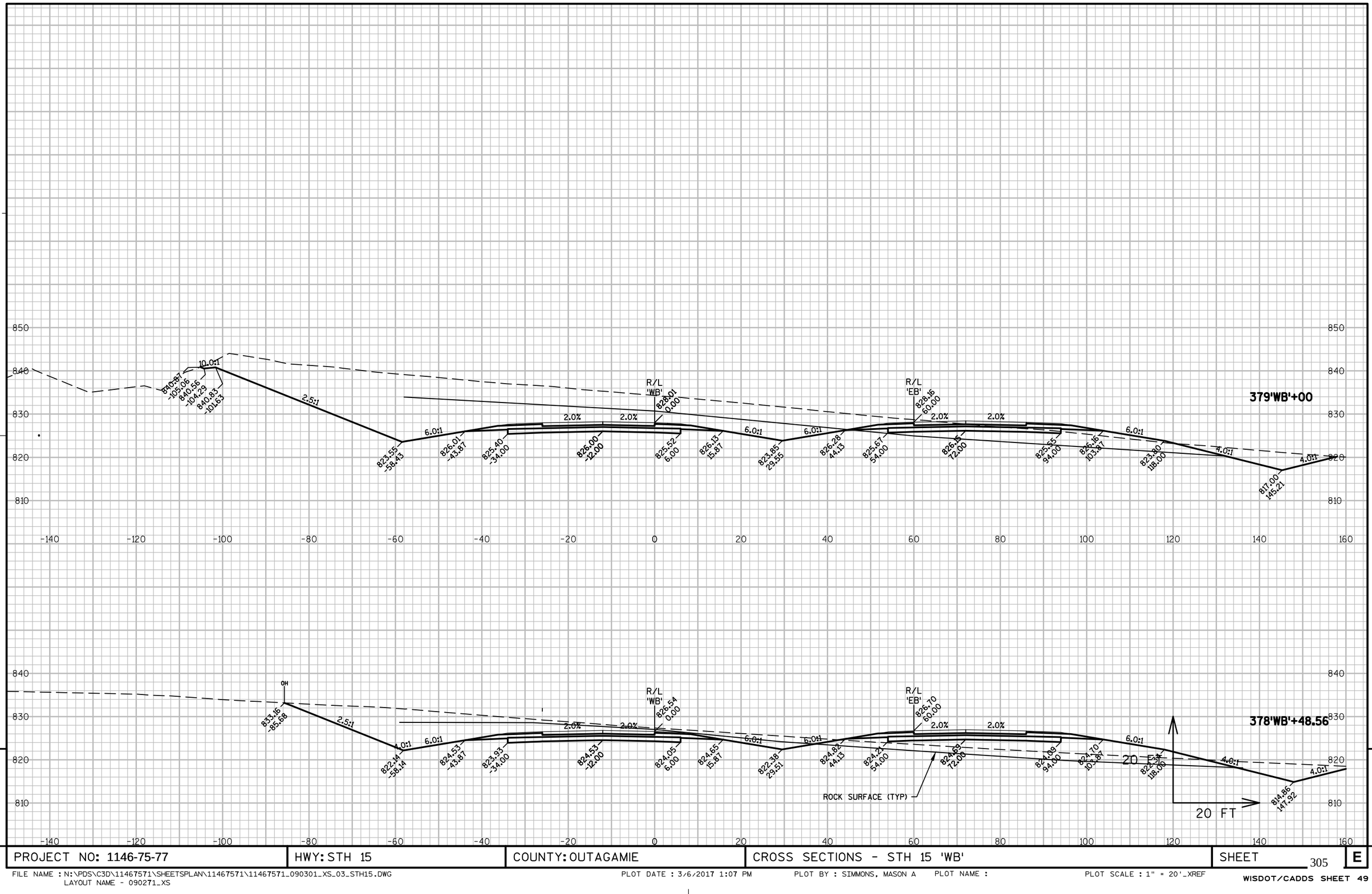
PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 303	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090269_XS
PLOT DATE : 3/6/2017 1:07 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 304	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090270_XS
PLOT DATE : 3/6/2017 1:07 PM
PLOT BY : SIMMONS, MASON A
PLOT NAME :
PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49

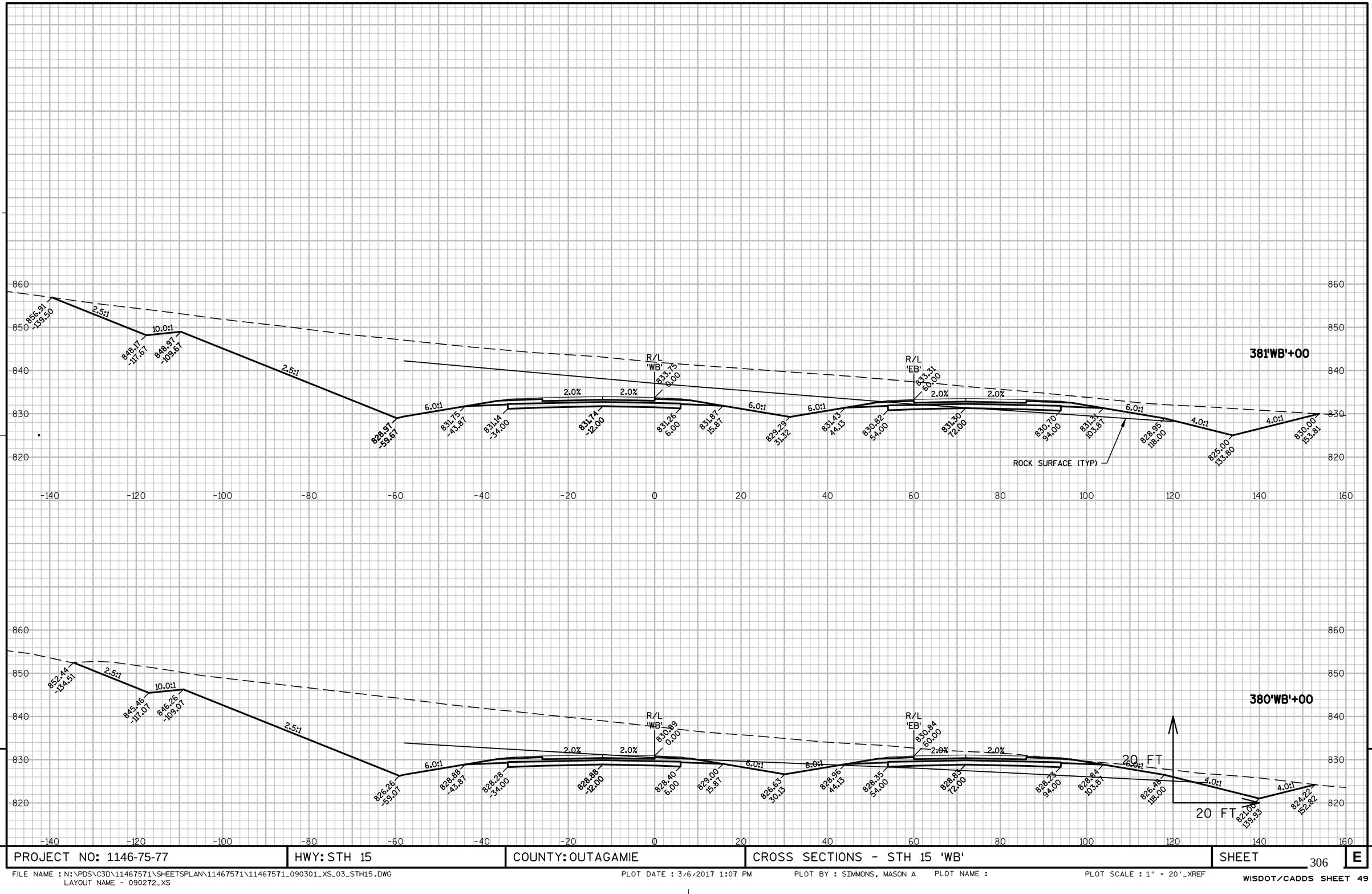


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 305	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090271_XS

PLOT DATE : 3/6/2017 1:07 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

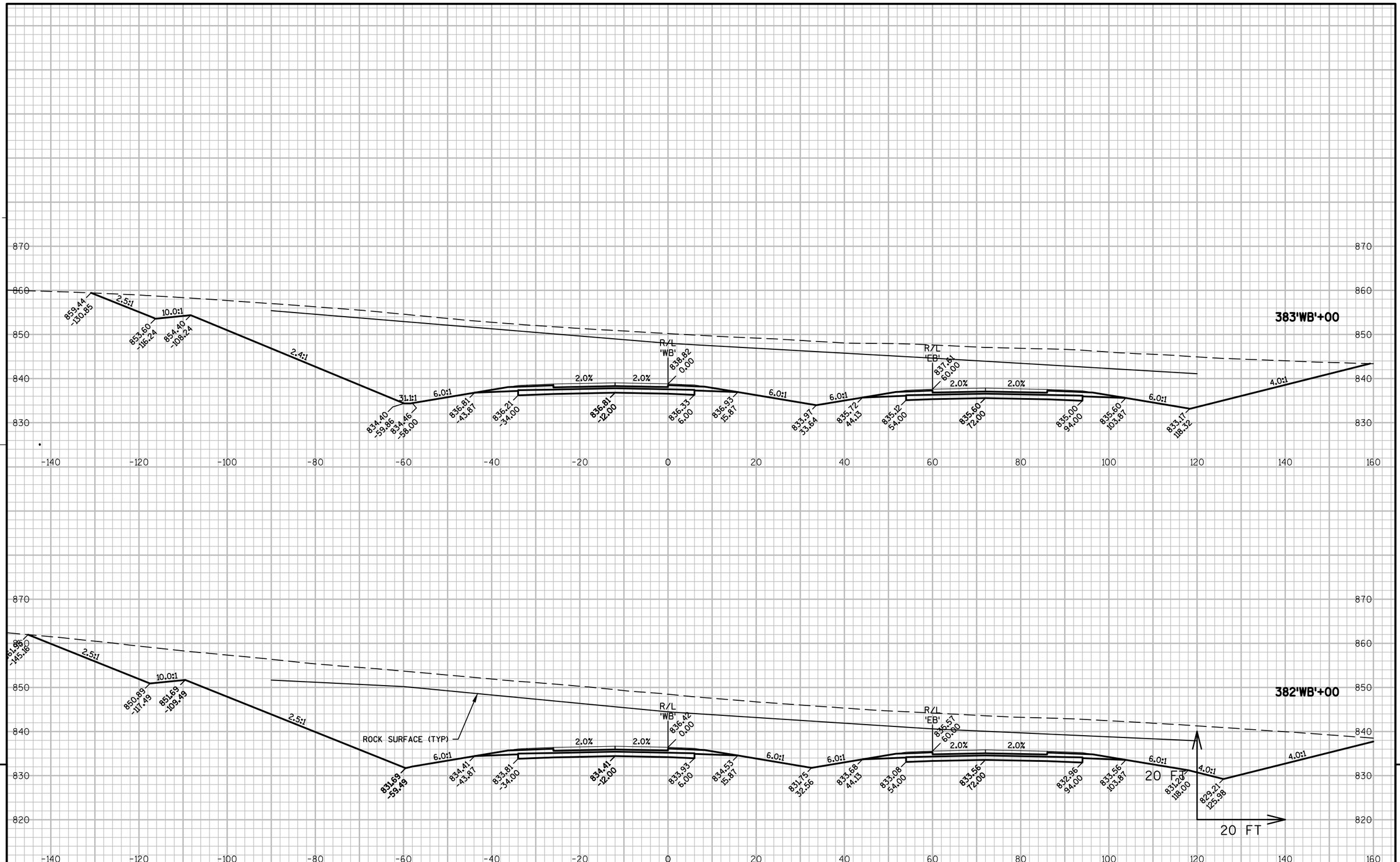


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 306	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090272_XS

PLOT DATE : 3/6/2017 1:07 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



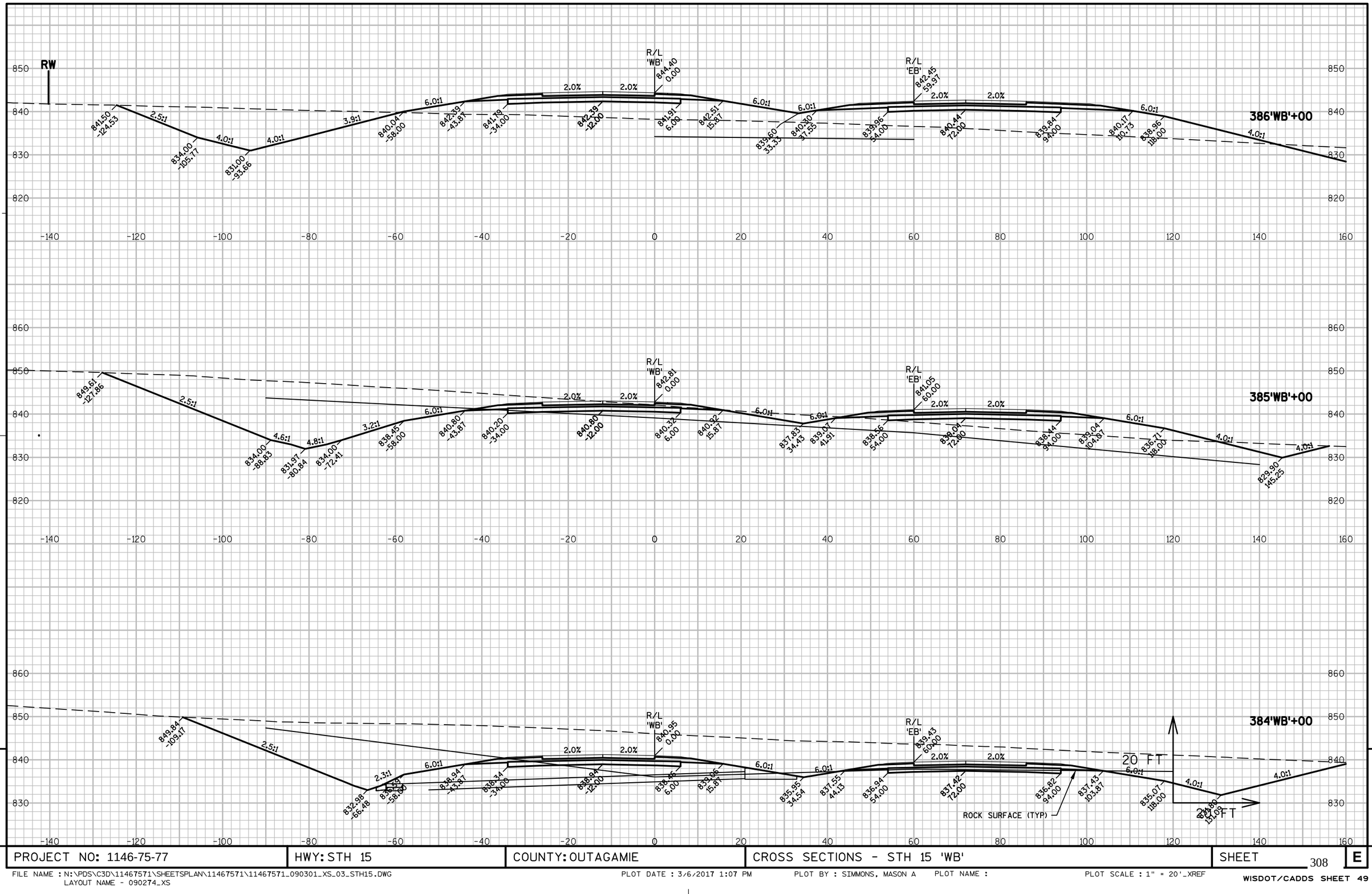
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 307 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090273_XS

PLOT DATE : 3/6/2017 1:07 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

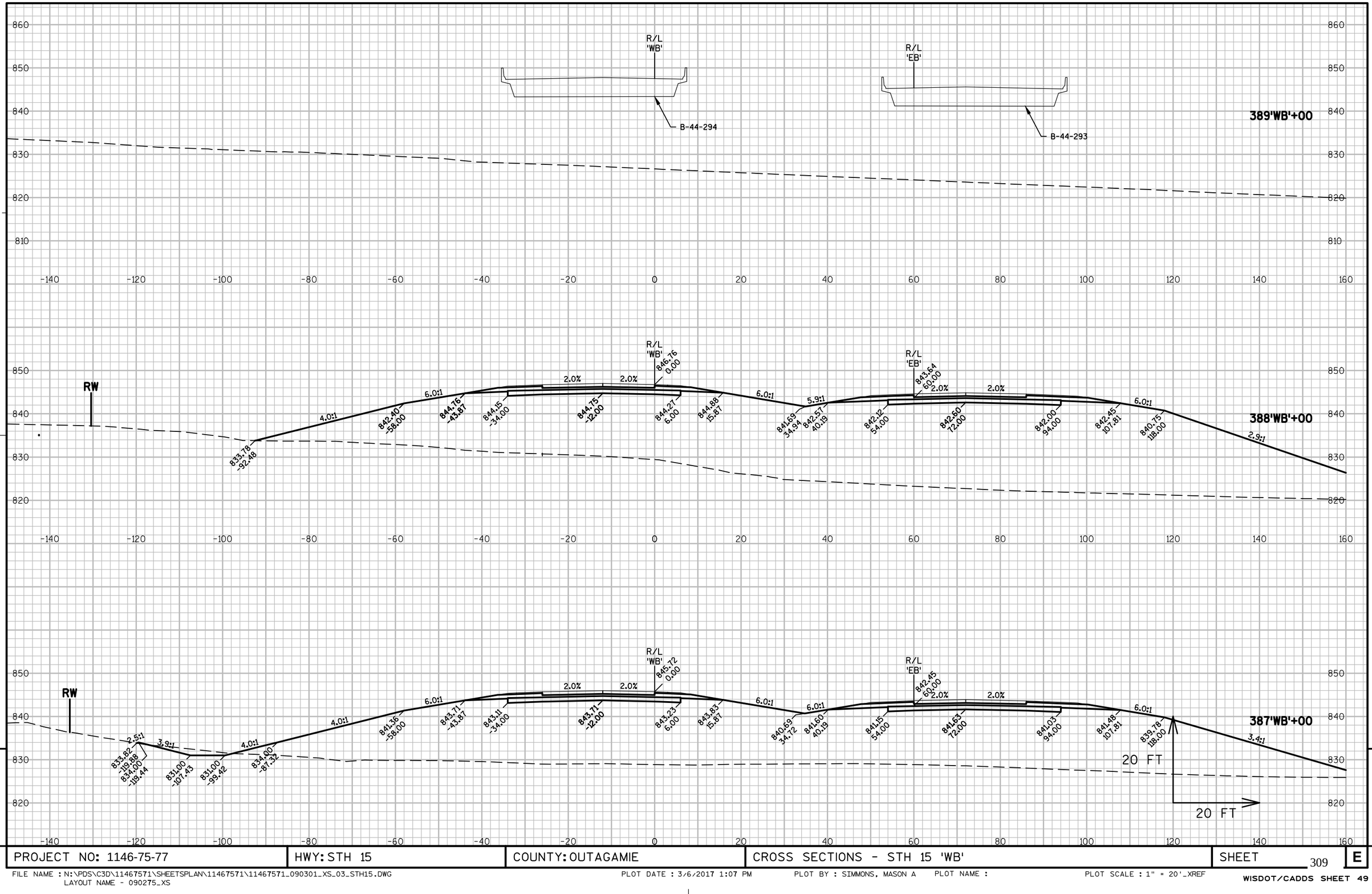
WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090274_XS

PLOT DATE : 3/6/2017 1:07 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



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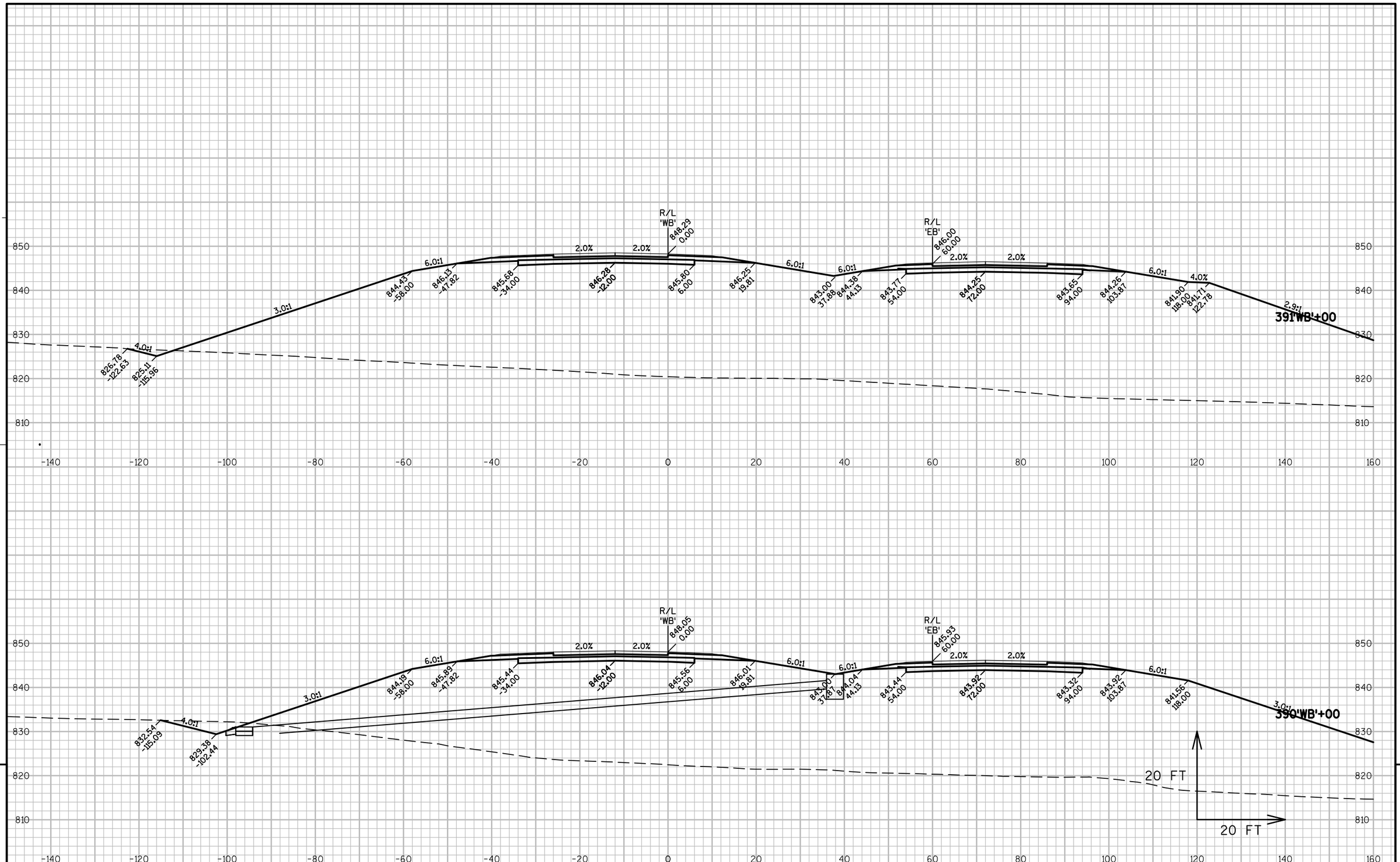
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 309	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090275_XS

PLOT DATE : 3/6/2017 1:07 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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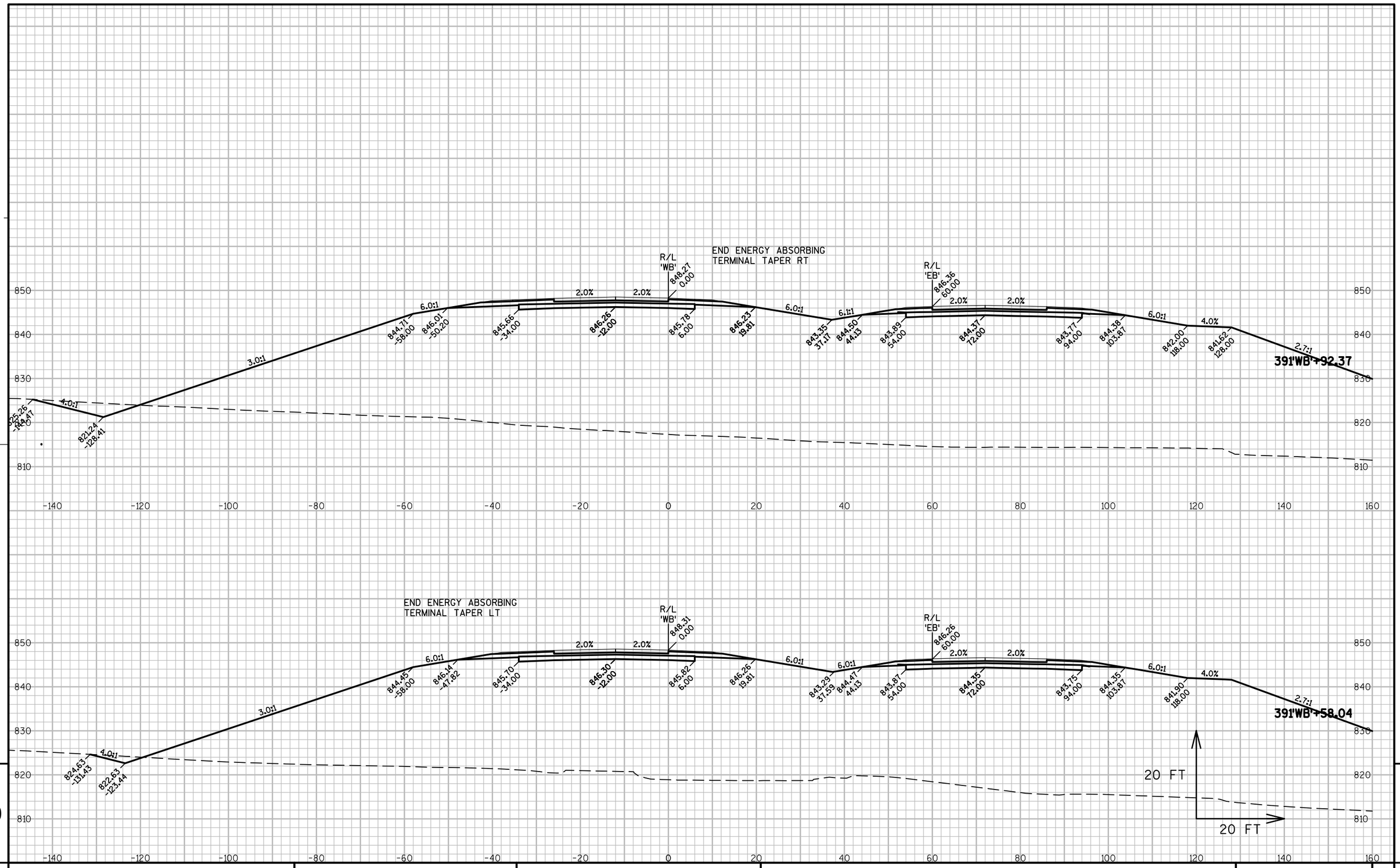
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 310	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090276_XS

PLOT DATE : 3/6/2017 1:08 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



9

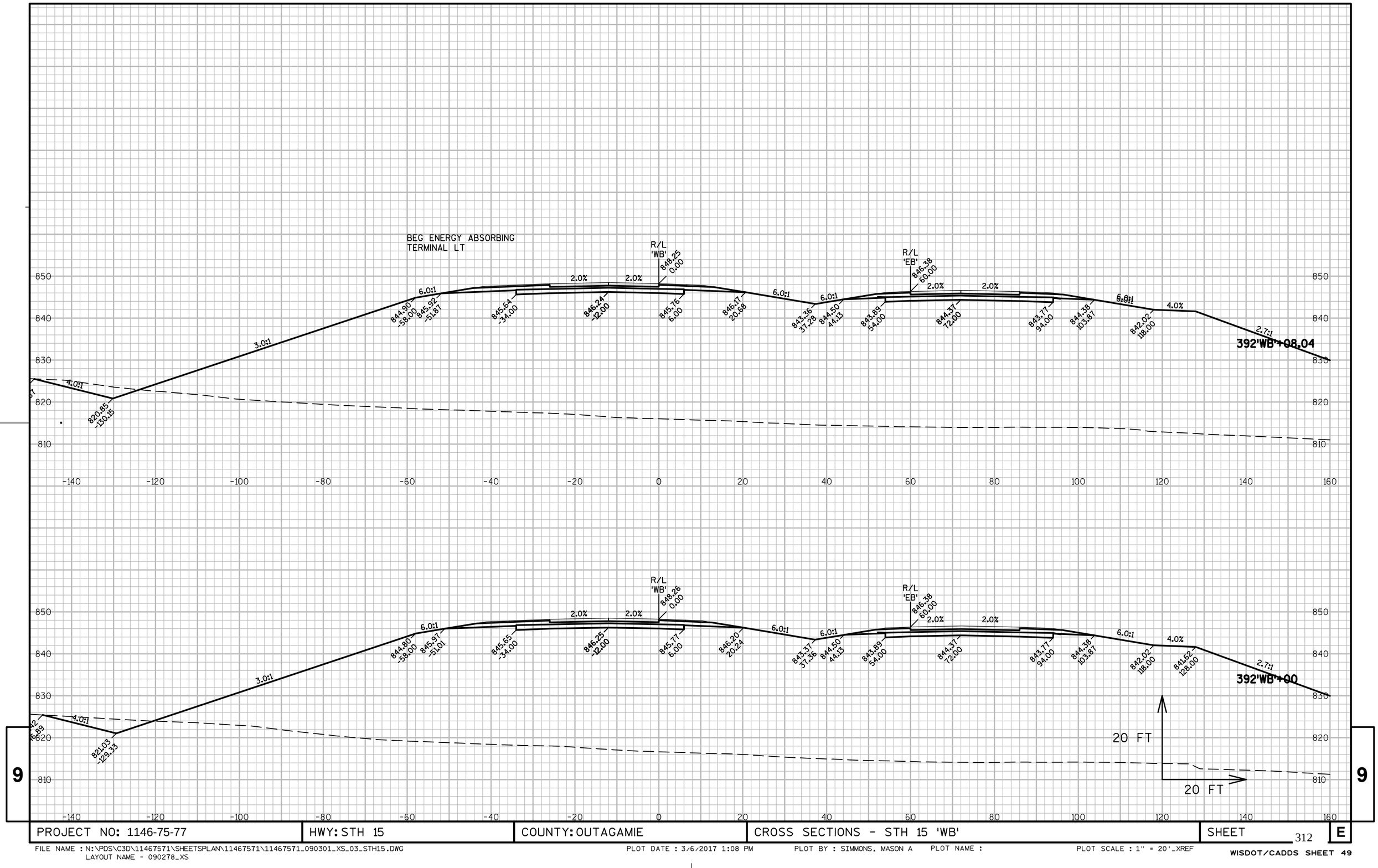
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 311	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090277_XS

PLOT DATE : 3/6/2017 1:08 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

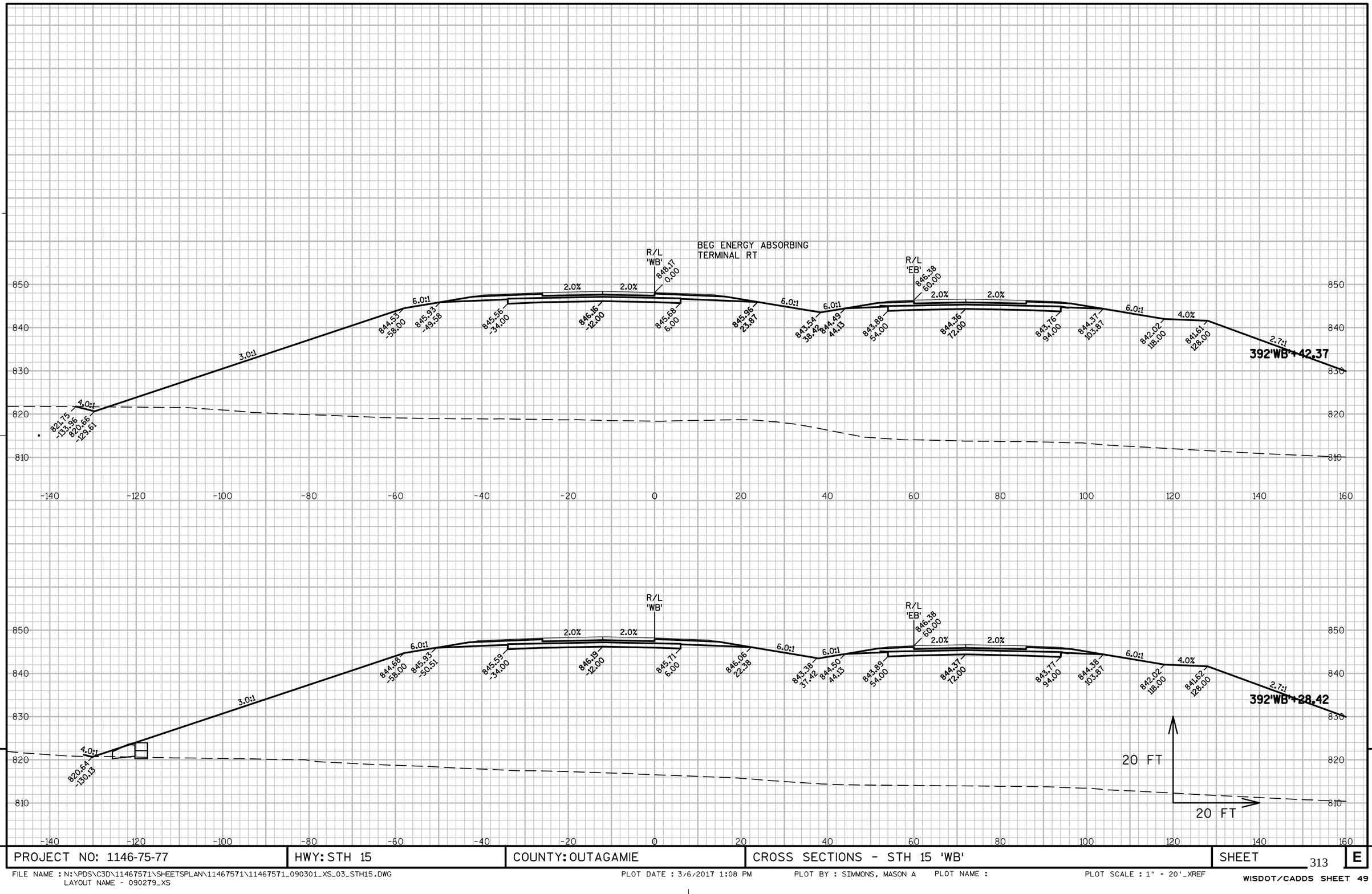


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 312	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090278_XS

PLOT DATE : 3/6/2017 1:08 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

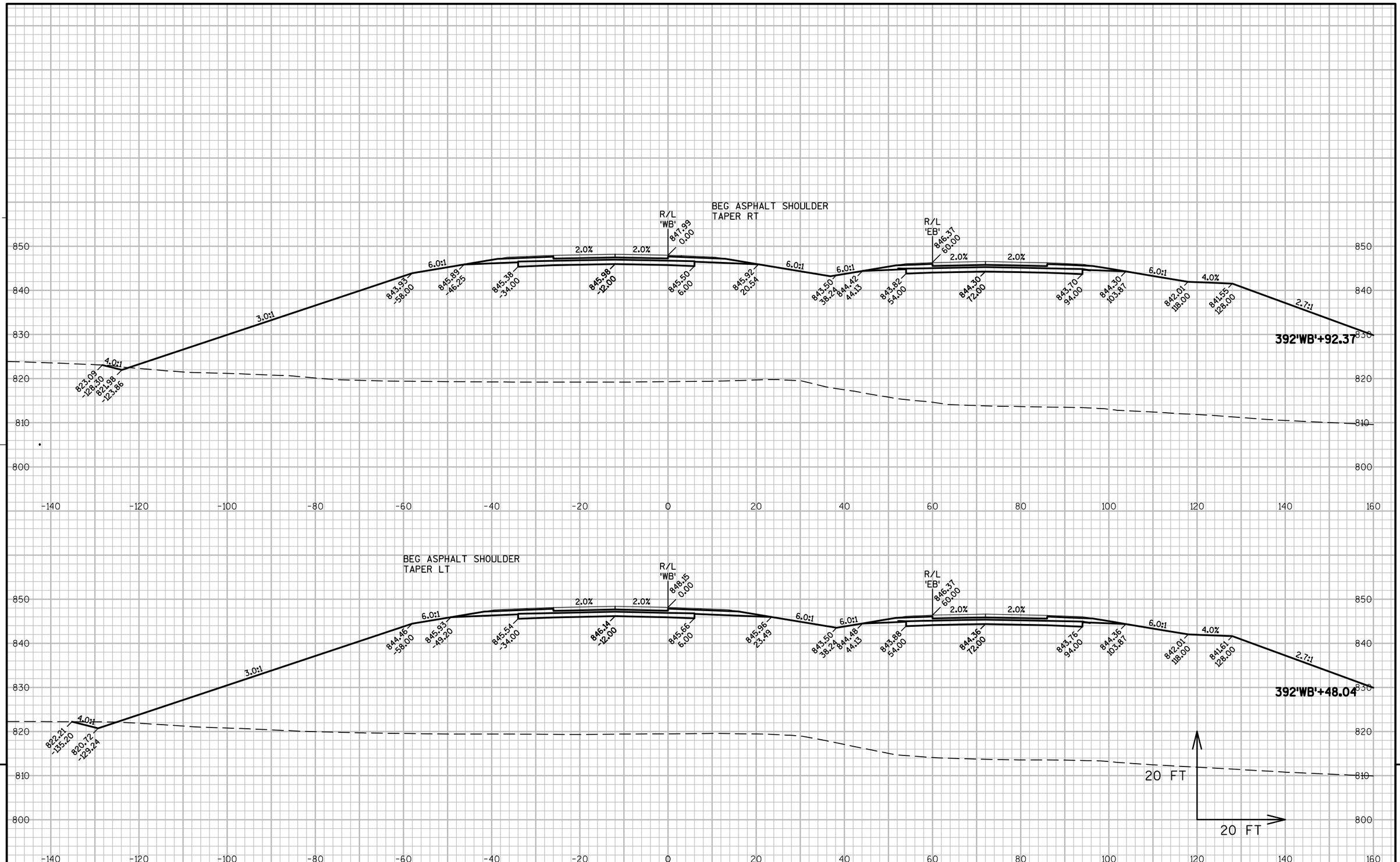


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 313	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090279_XS

PLOT DATE : 3/6/2017 1:08 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

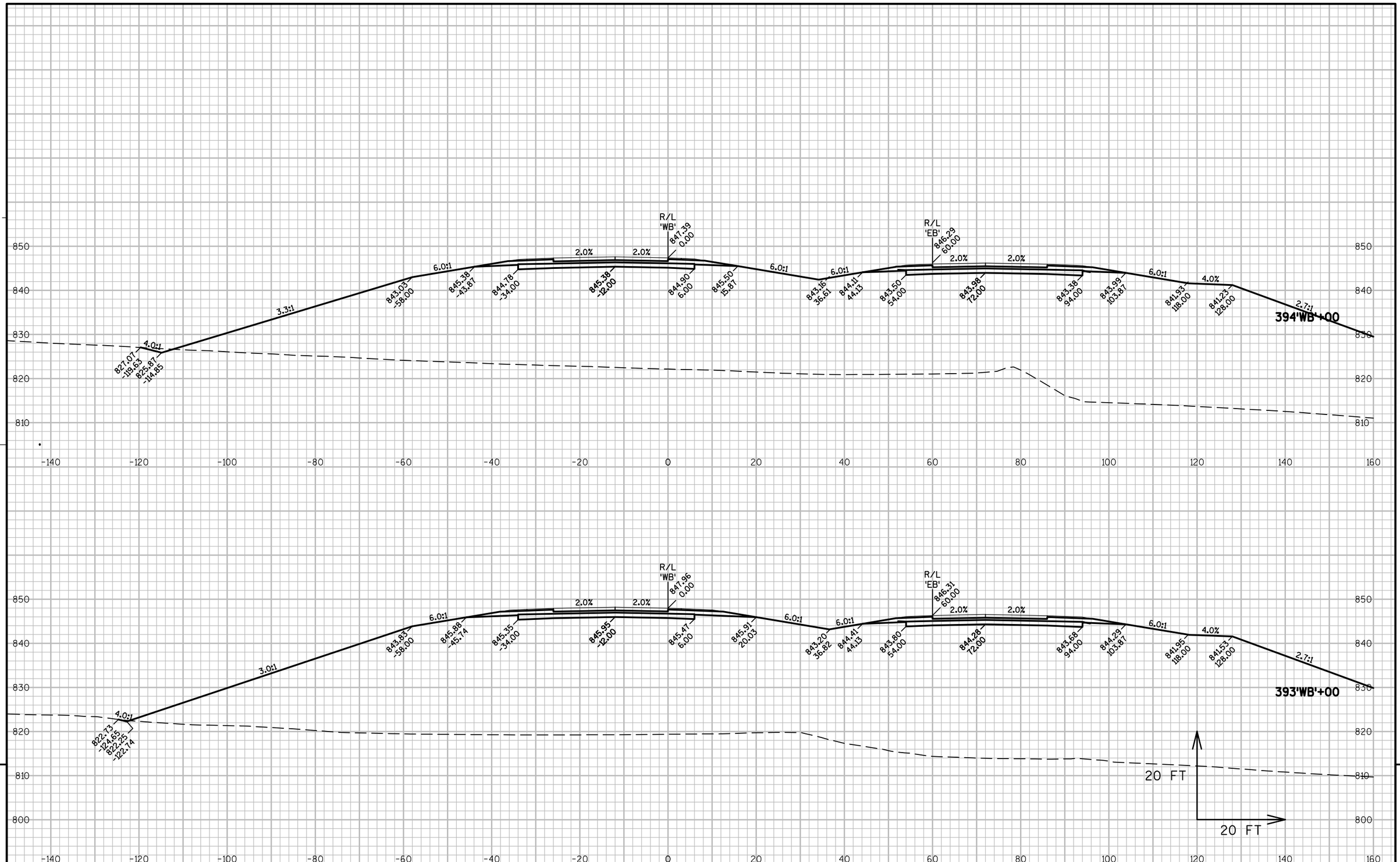
WISDOT/CADDS SHEET 49



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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 314 E



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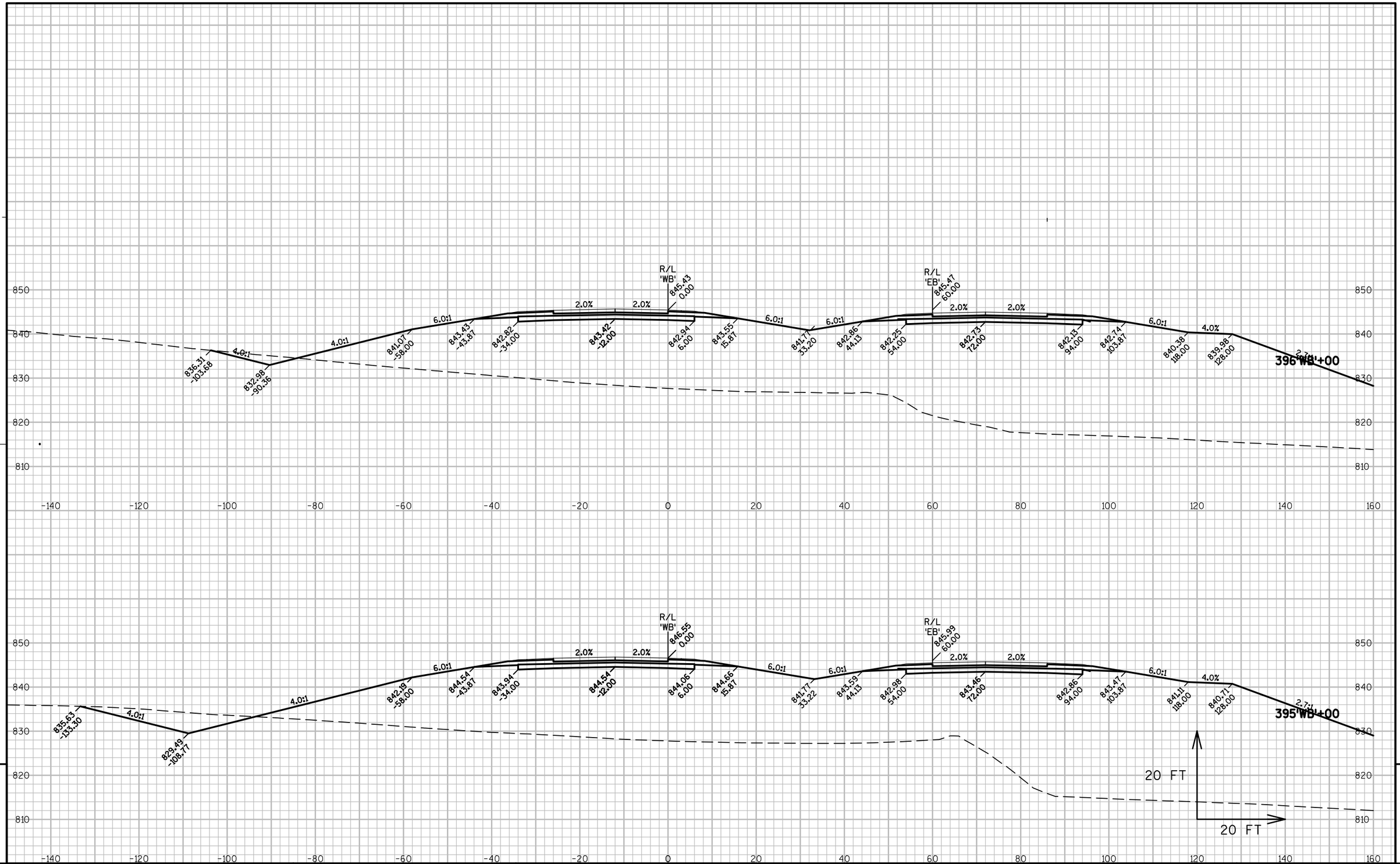
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 315	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090281_XS

PLOT DATE : 3/6/2017 1:08 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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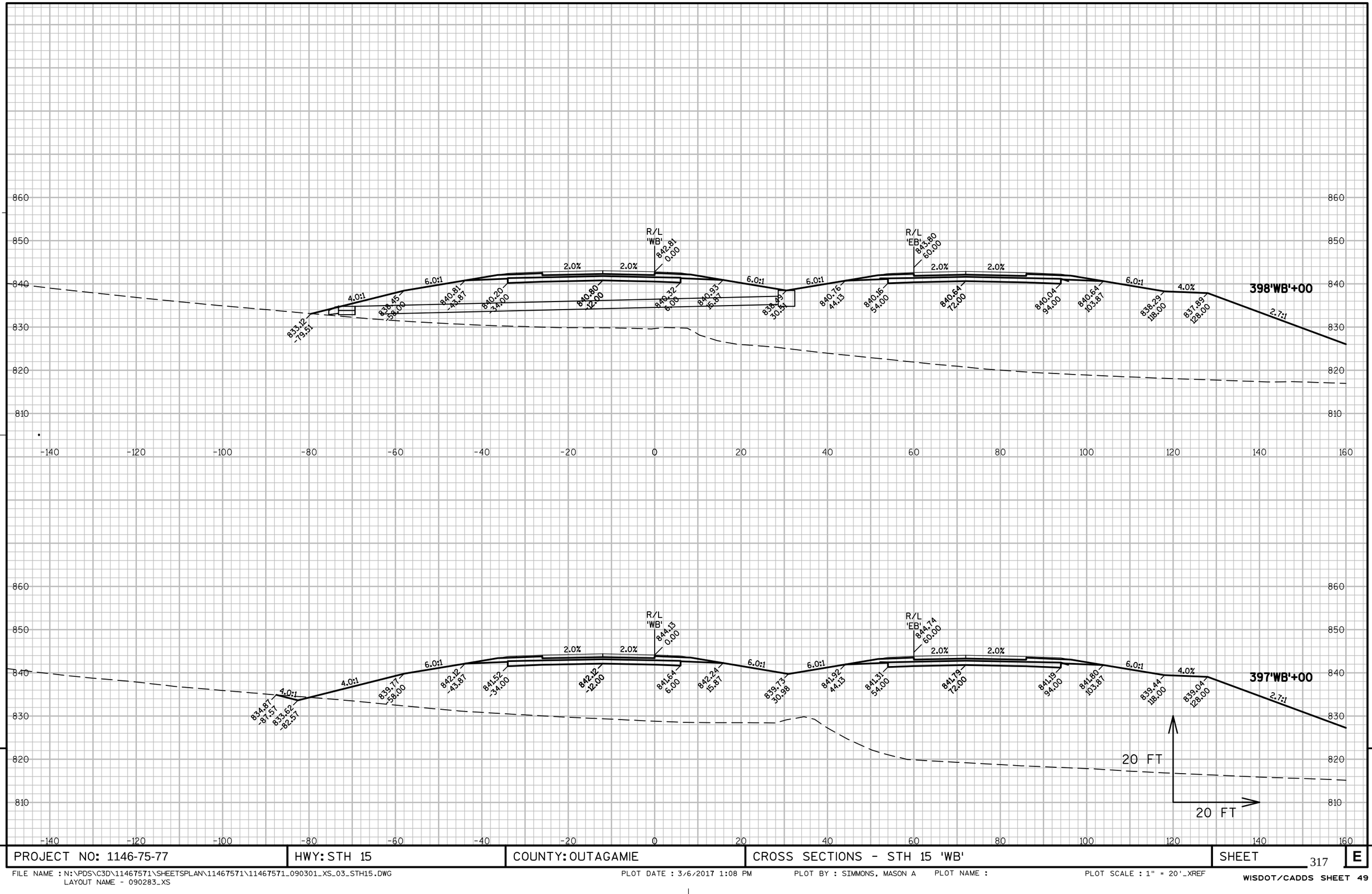
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 316	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090282_XS

PLOT DATE : 3/6/2017 1:08 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

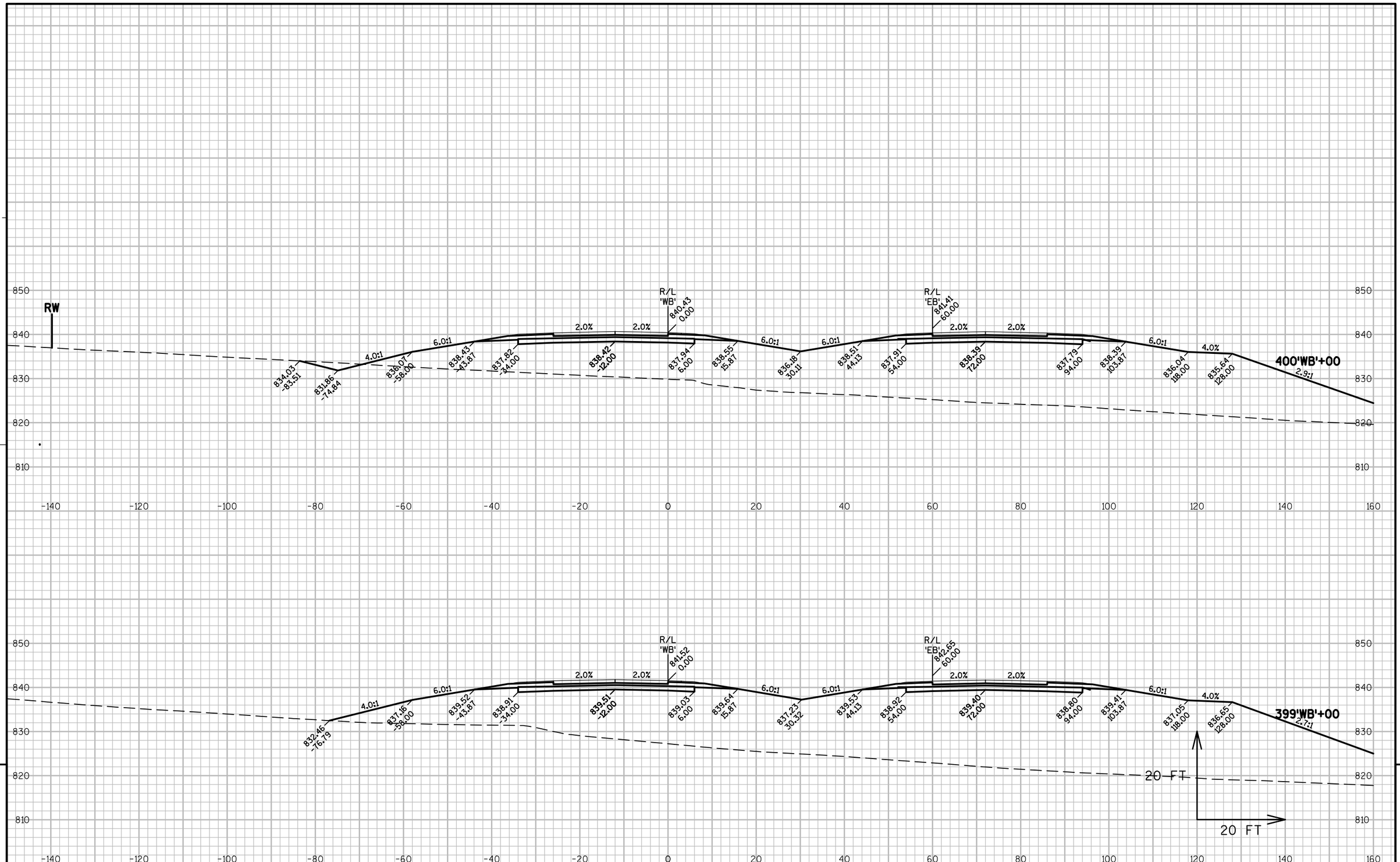


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 317 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090283_XS

PLOT DATE : 3/6/2017 1:08 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

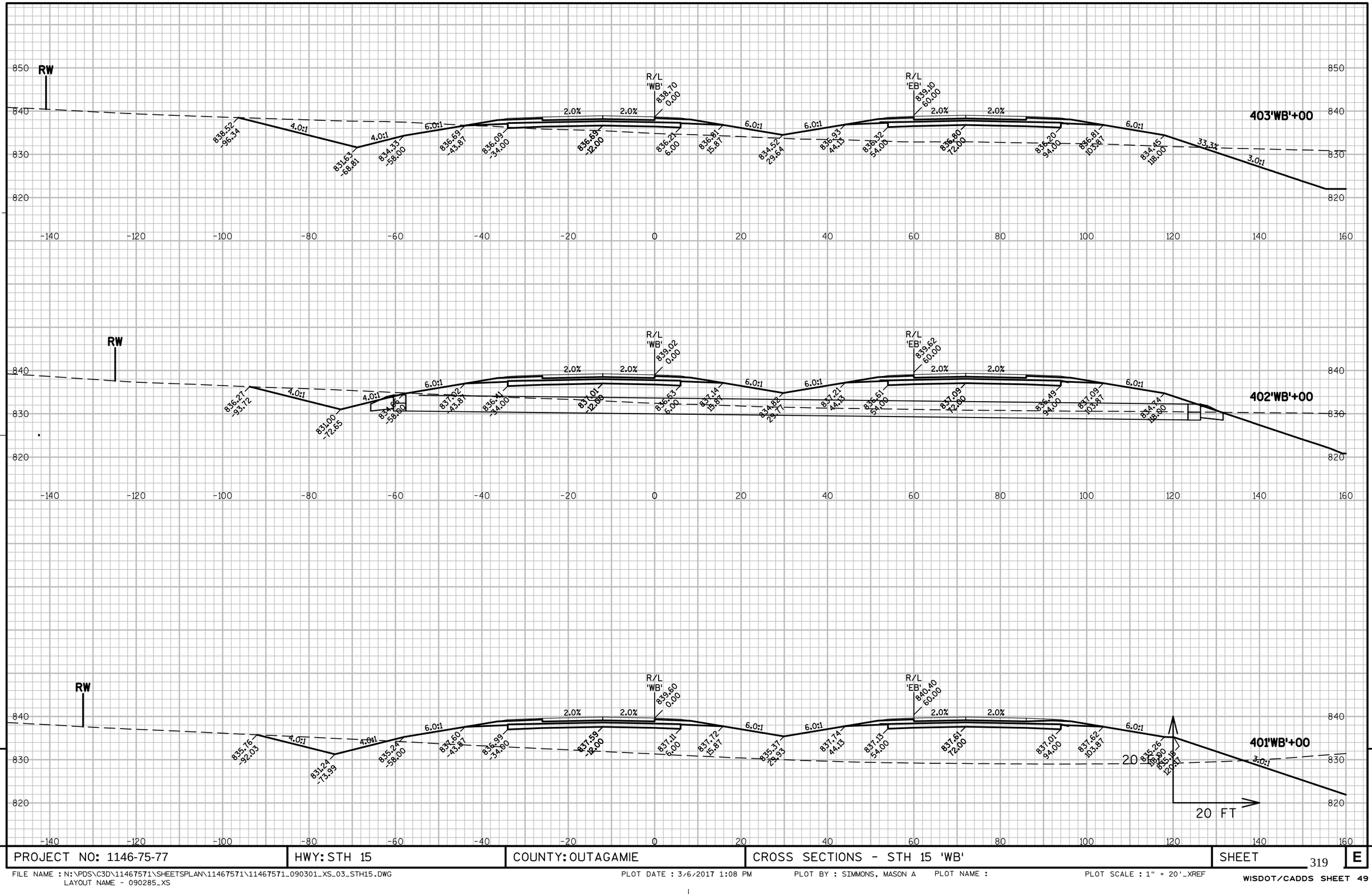


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 318 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090284_XS

PLOT DATE : 3/6/2017 1:08 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

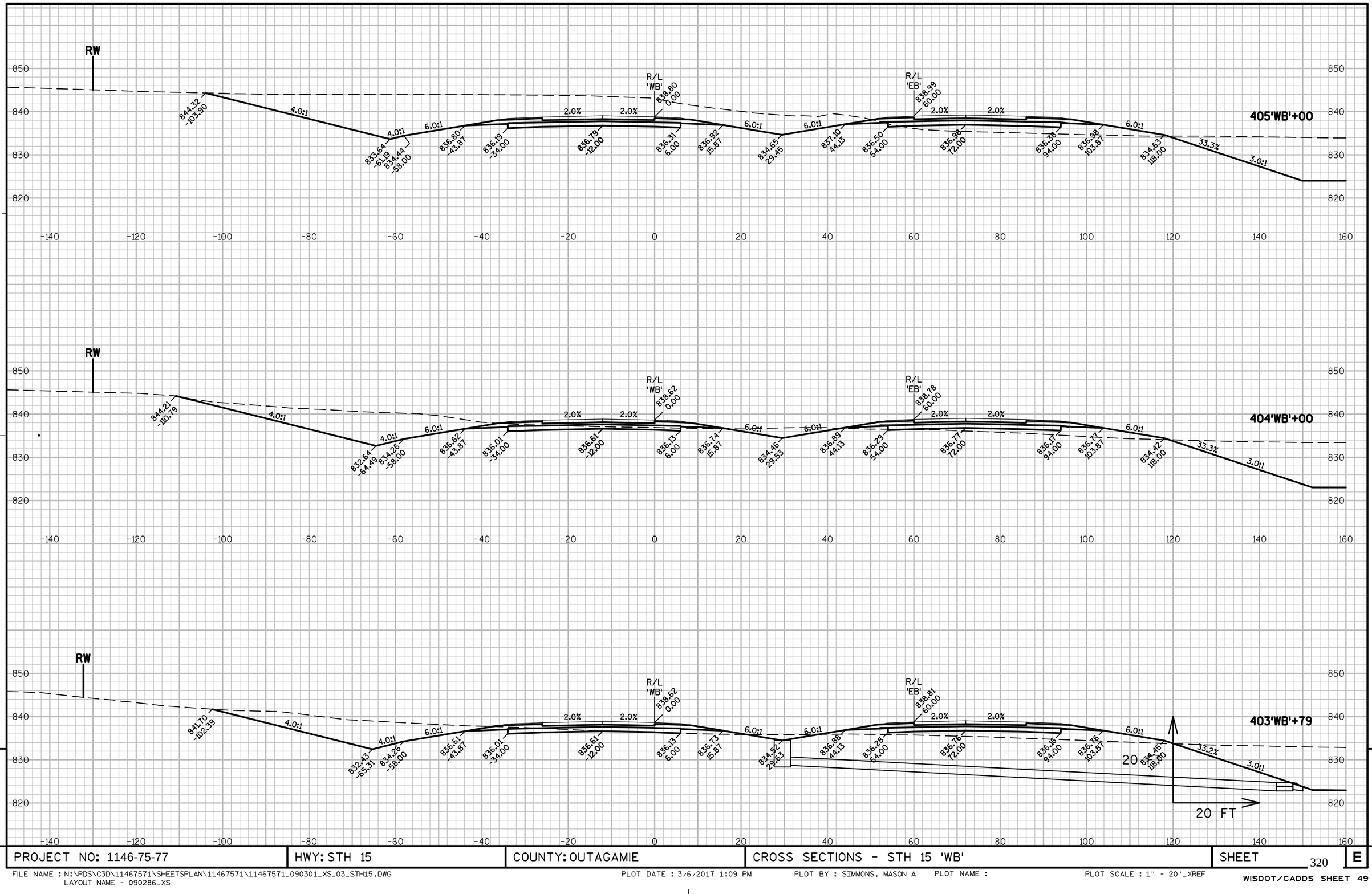


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 319	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090285_XS

PLOT DATE : 3/6/2017 1:08 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

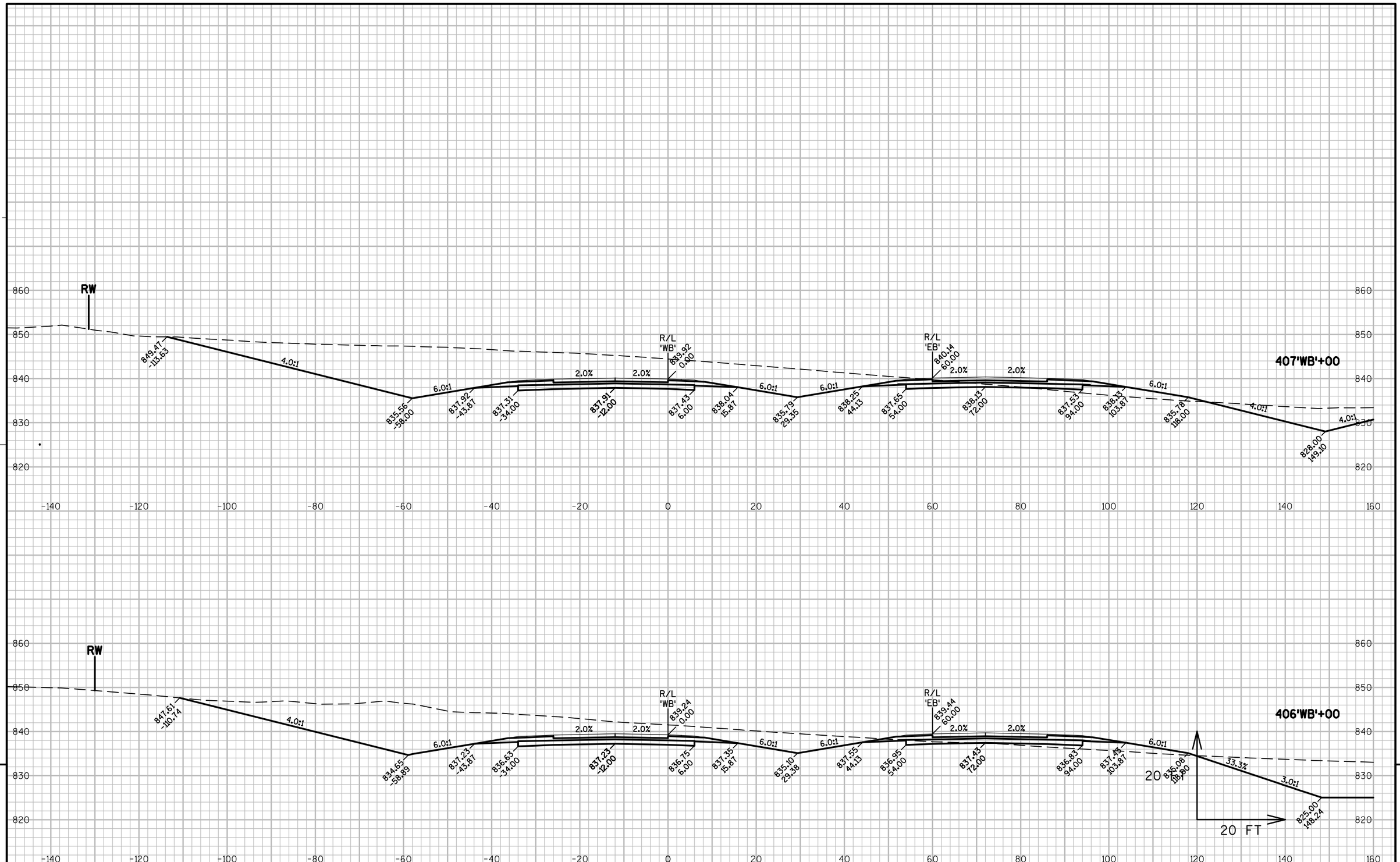
WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 320	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090286_XS

PLOT DATE : 3/6/2017 1:09 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



9

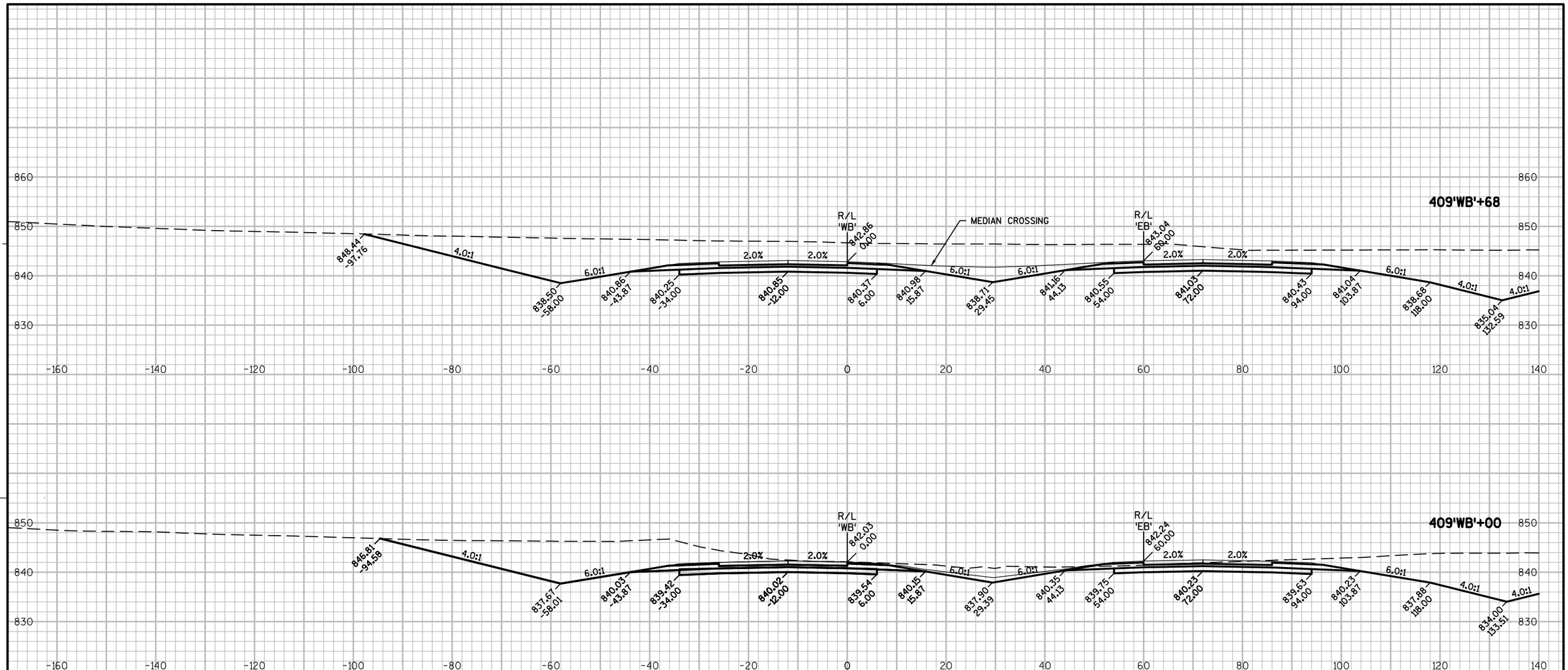
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090287_XS

PLOT DATE : 3/6/2017 1:09 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

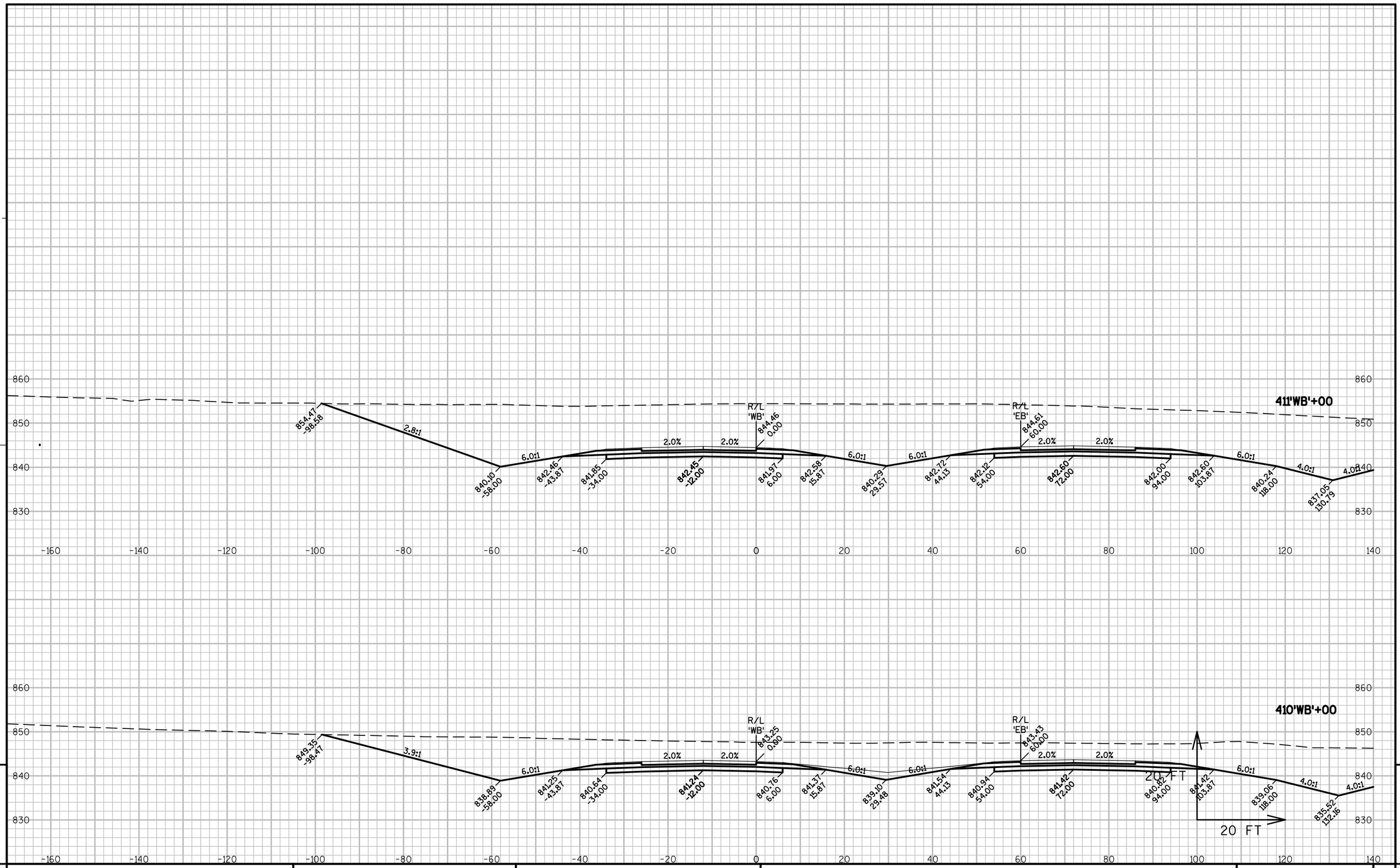


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 322 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 090389_XS

PLOT DATE : 3/6/2017 1:14 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

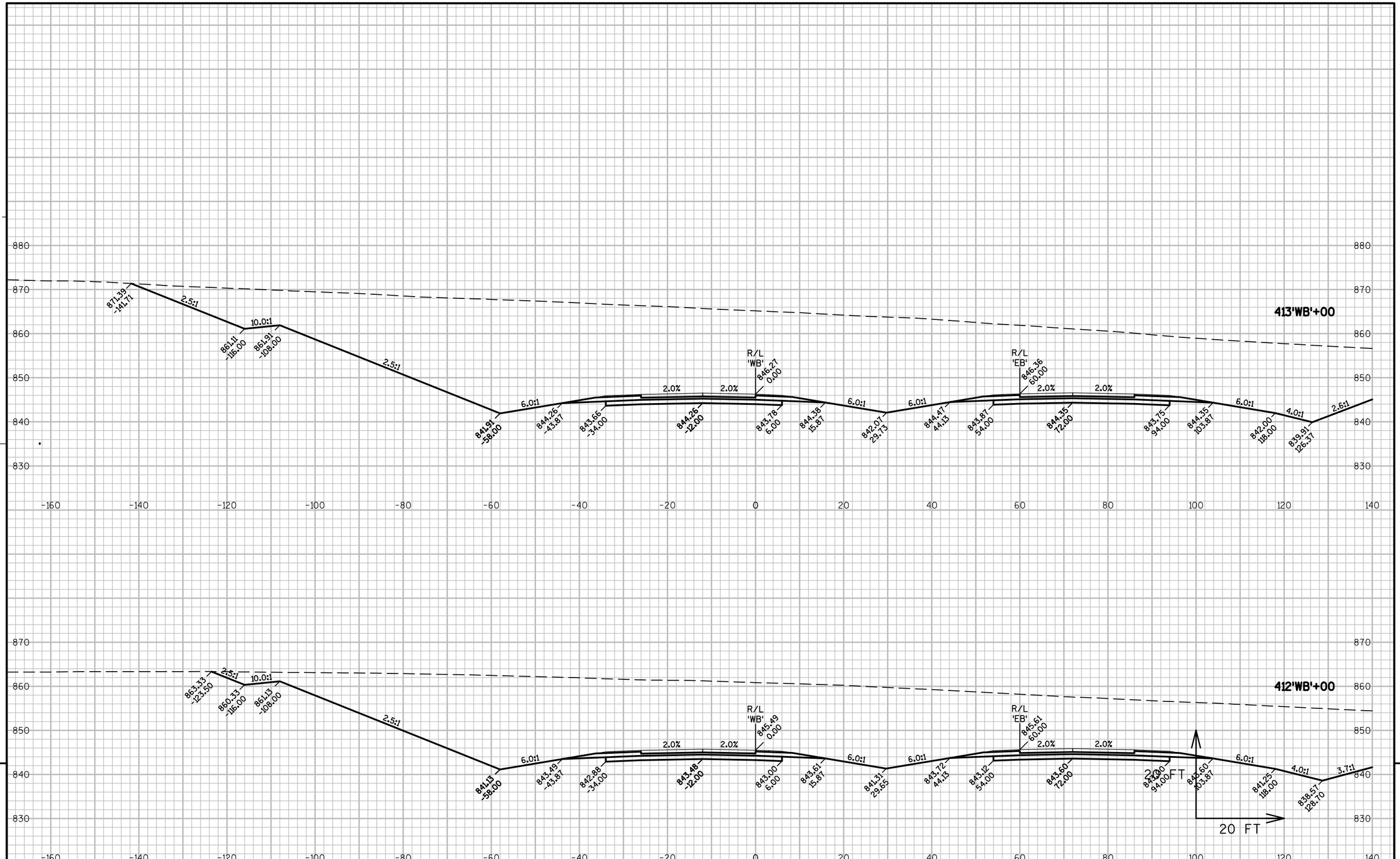


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 323	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 090390_XS

PLOT DATE : 3/6/2017 1:14 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



9

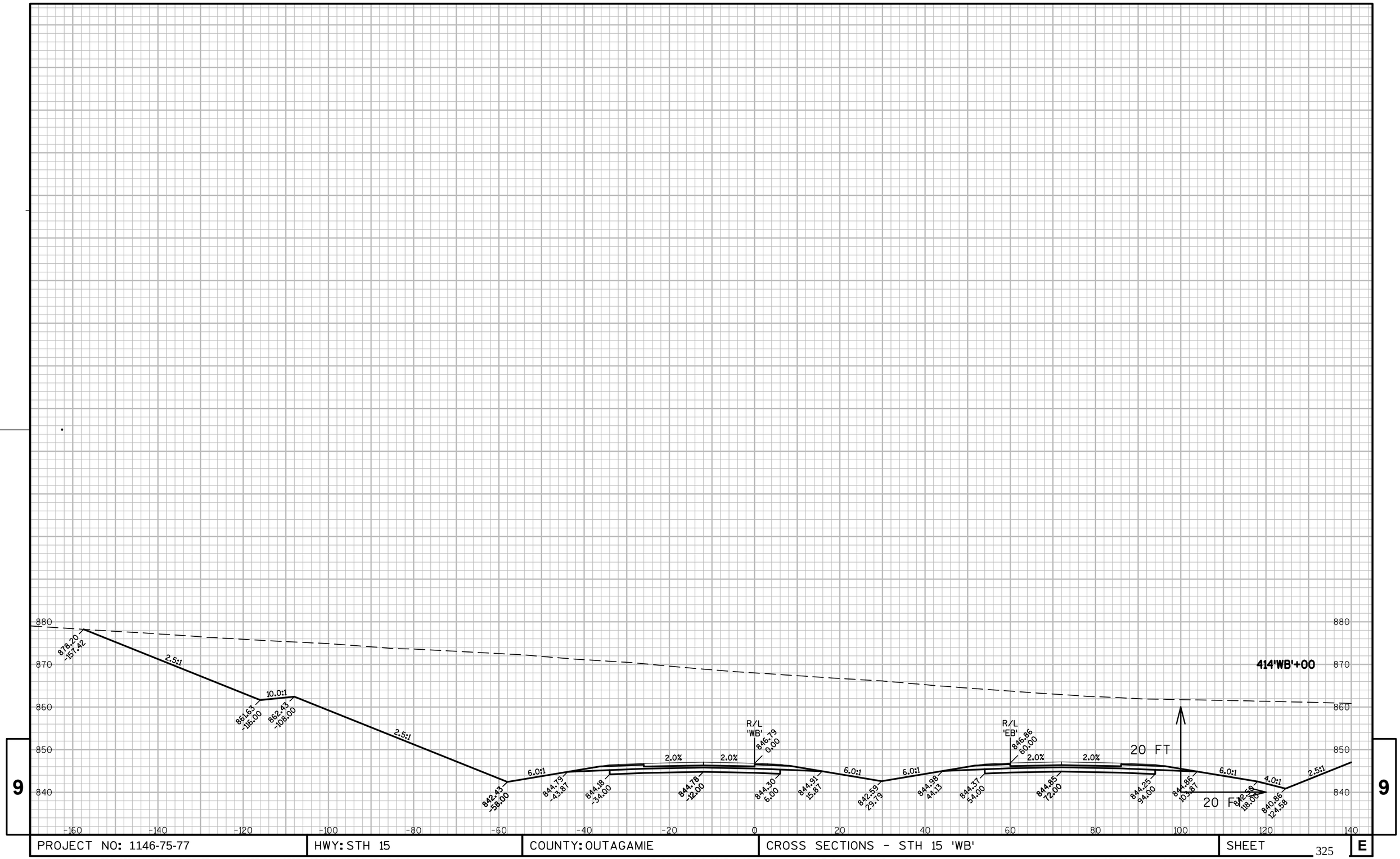
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 324	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 090391_XS

PLOT DATE : 3/6/2017 1:15 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



9

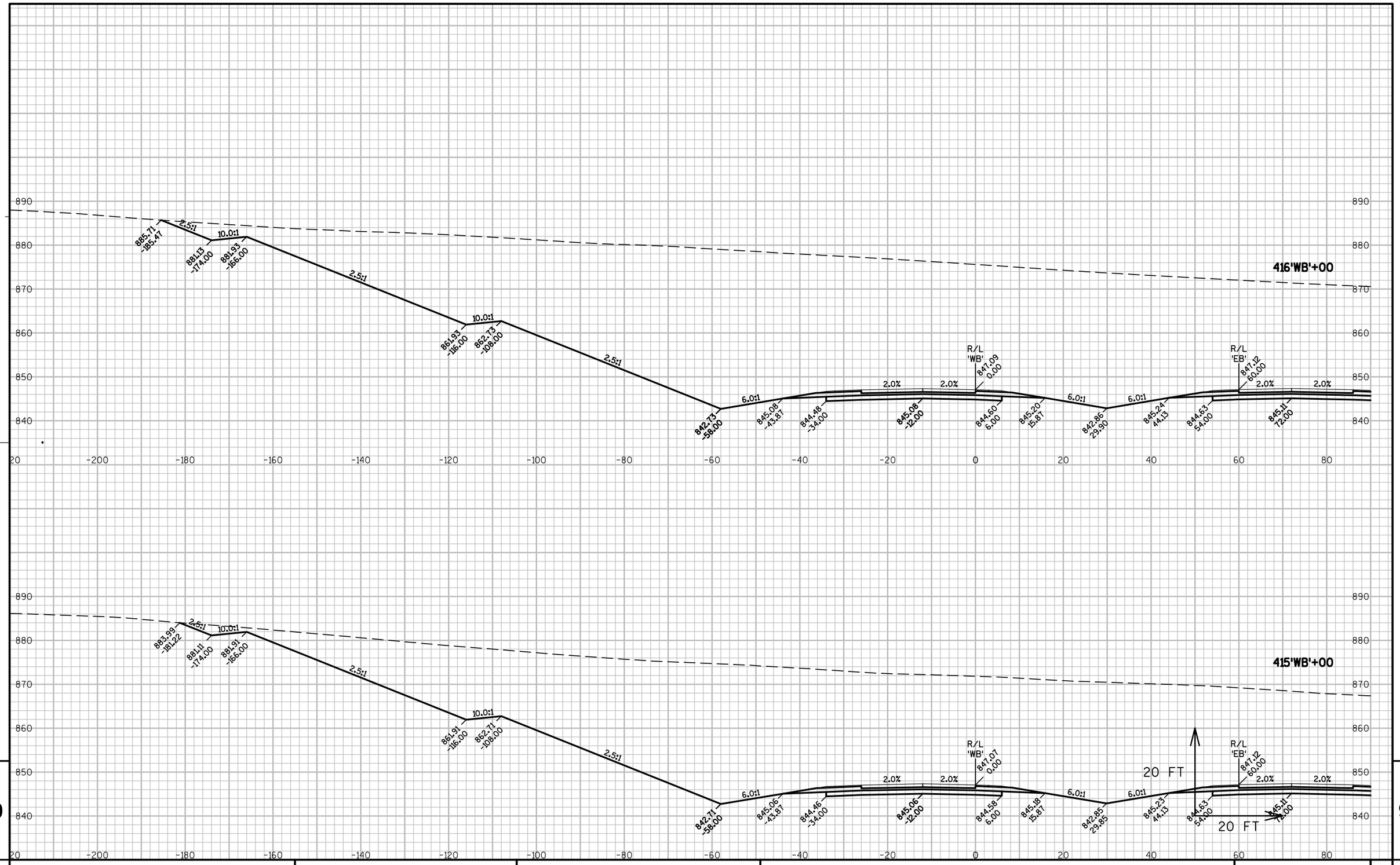
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 325	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 090392_XS

PLOT DATE : 3/6/2017 1:15 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



9

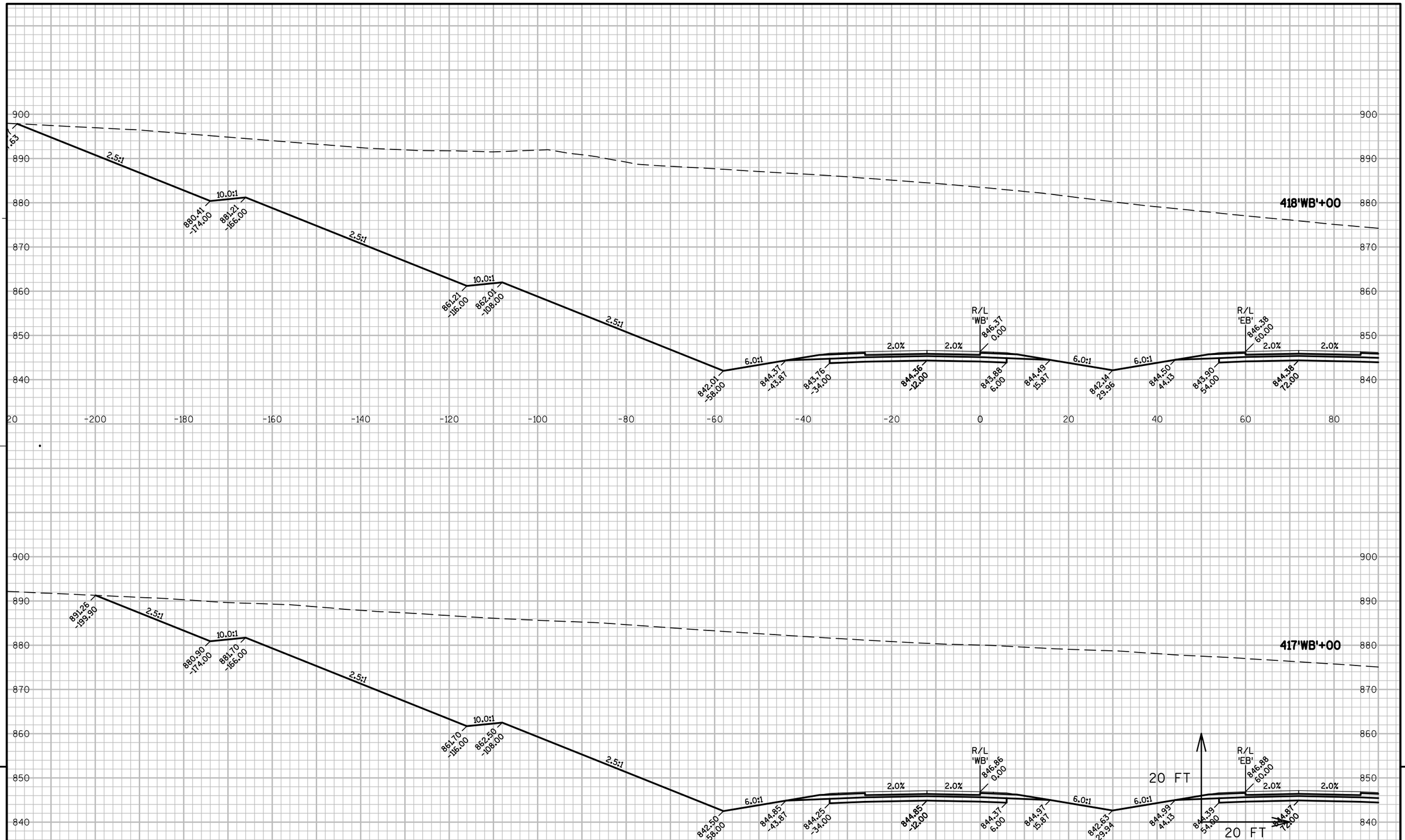
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 326	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 090393_XS

PLOT DATE : 3/6/2017 1:15 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

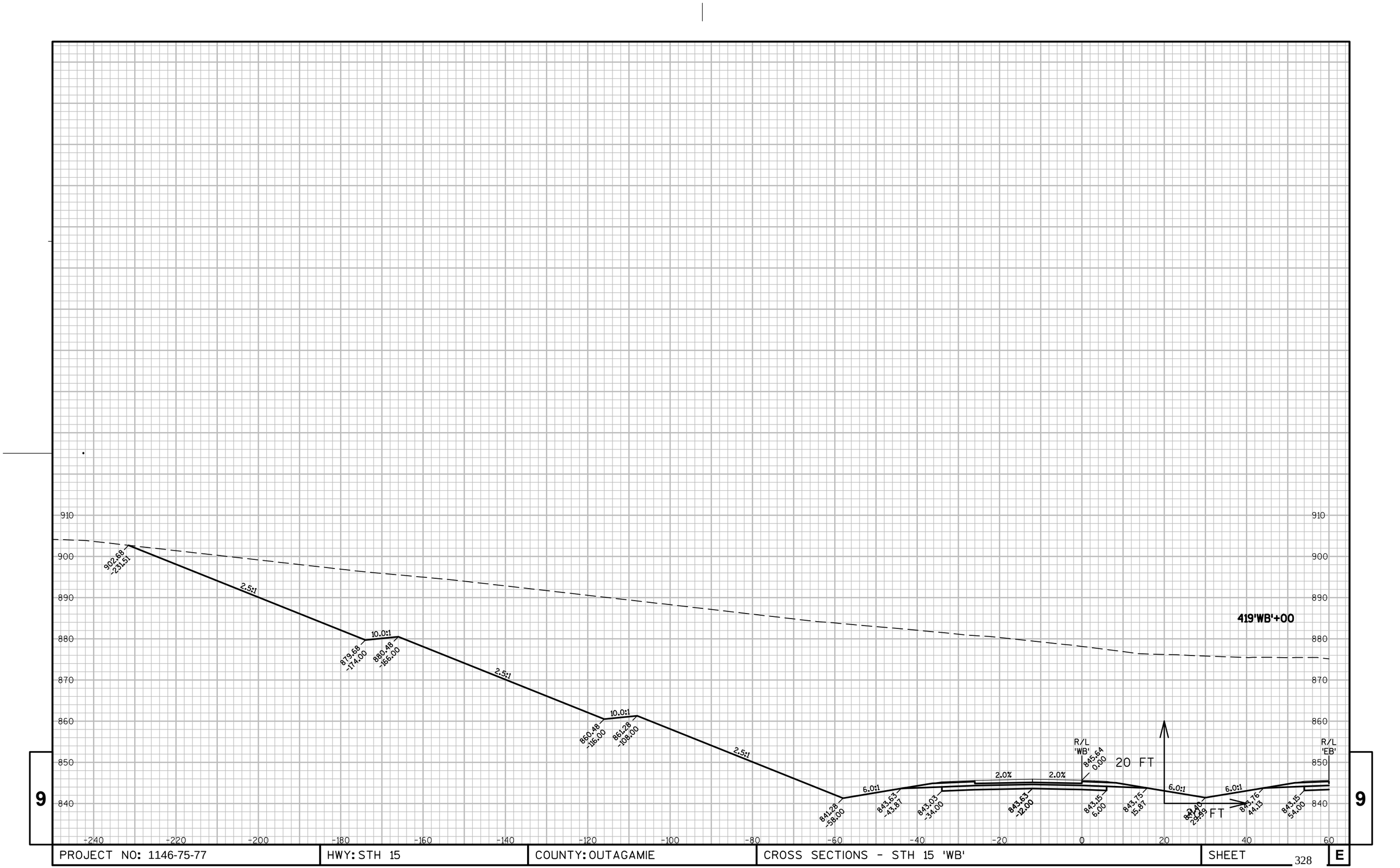


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 327	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 090394_XS

PLOT DATE : 3/6/2017 1:16 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



9

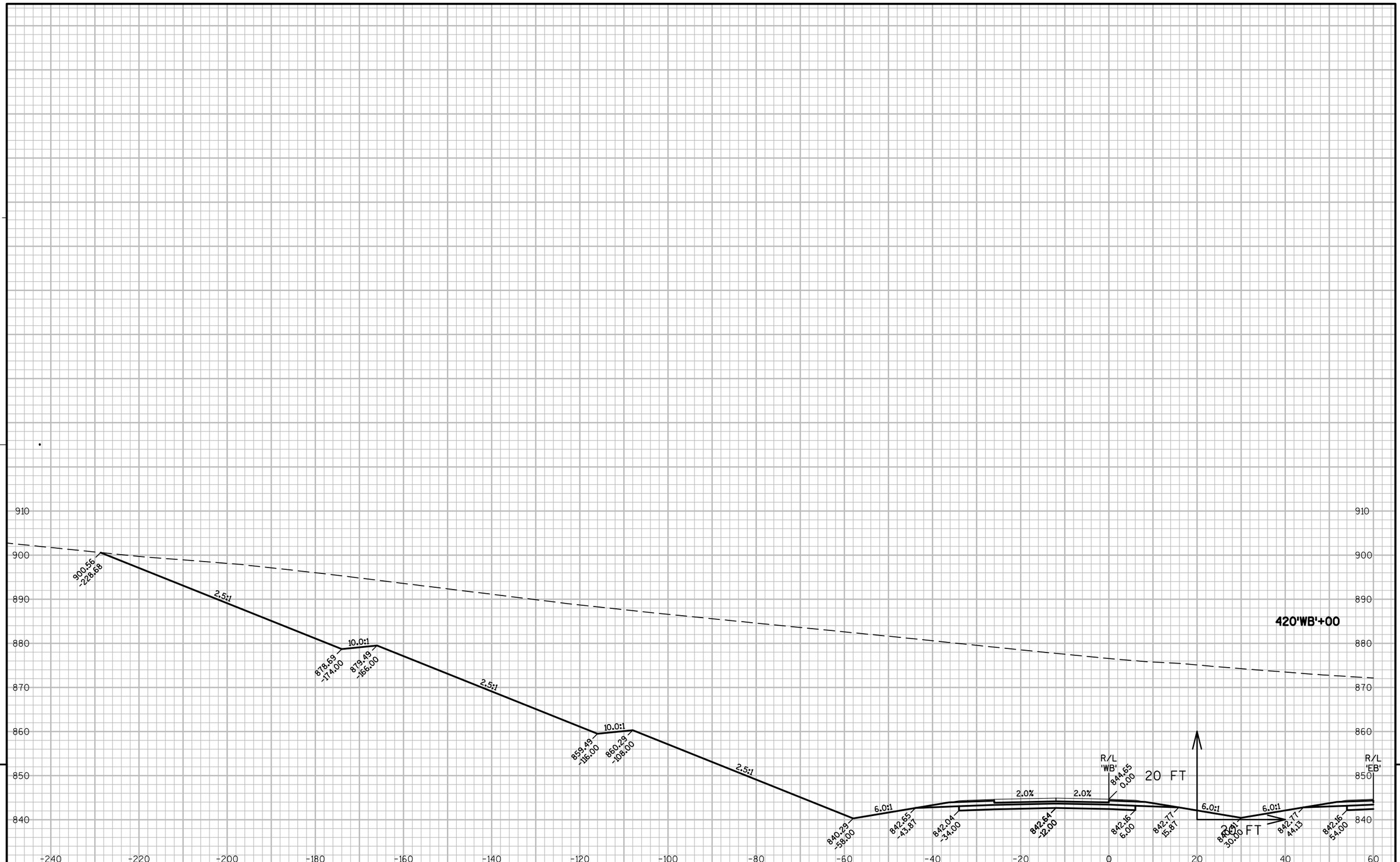
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 328 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 090395_XS

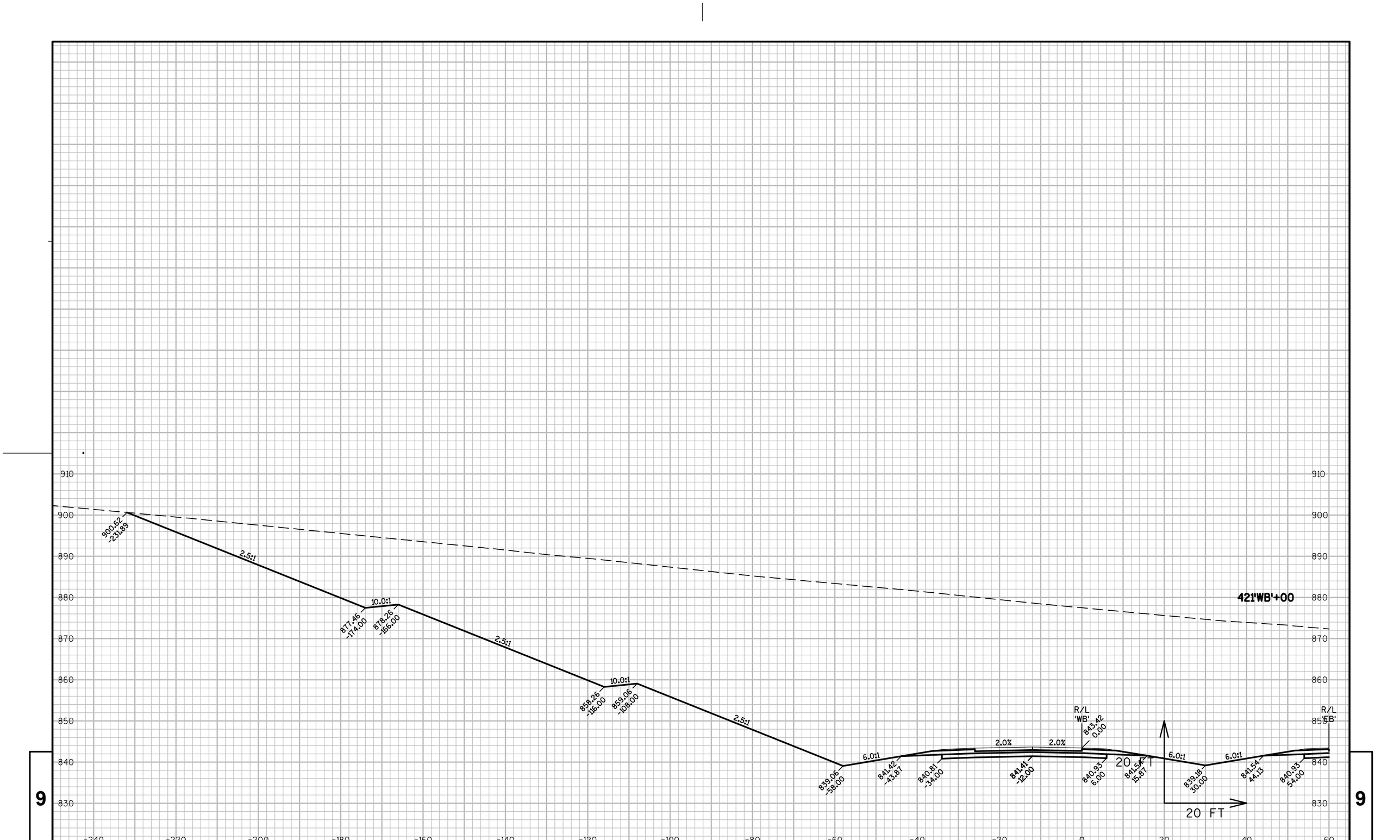
PLOT DATE : 3/6/2017 1:16 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



9 9

PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 329 E



9

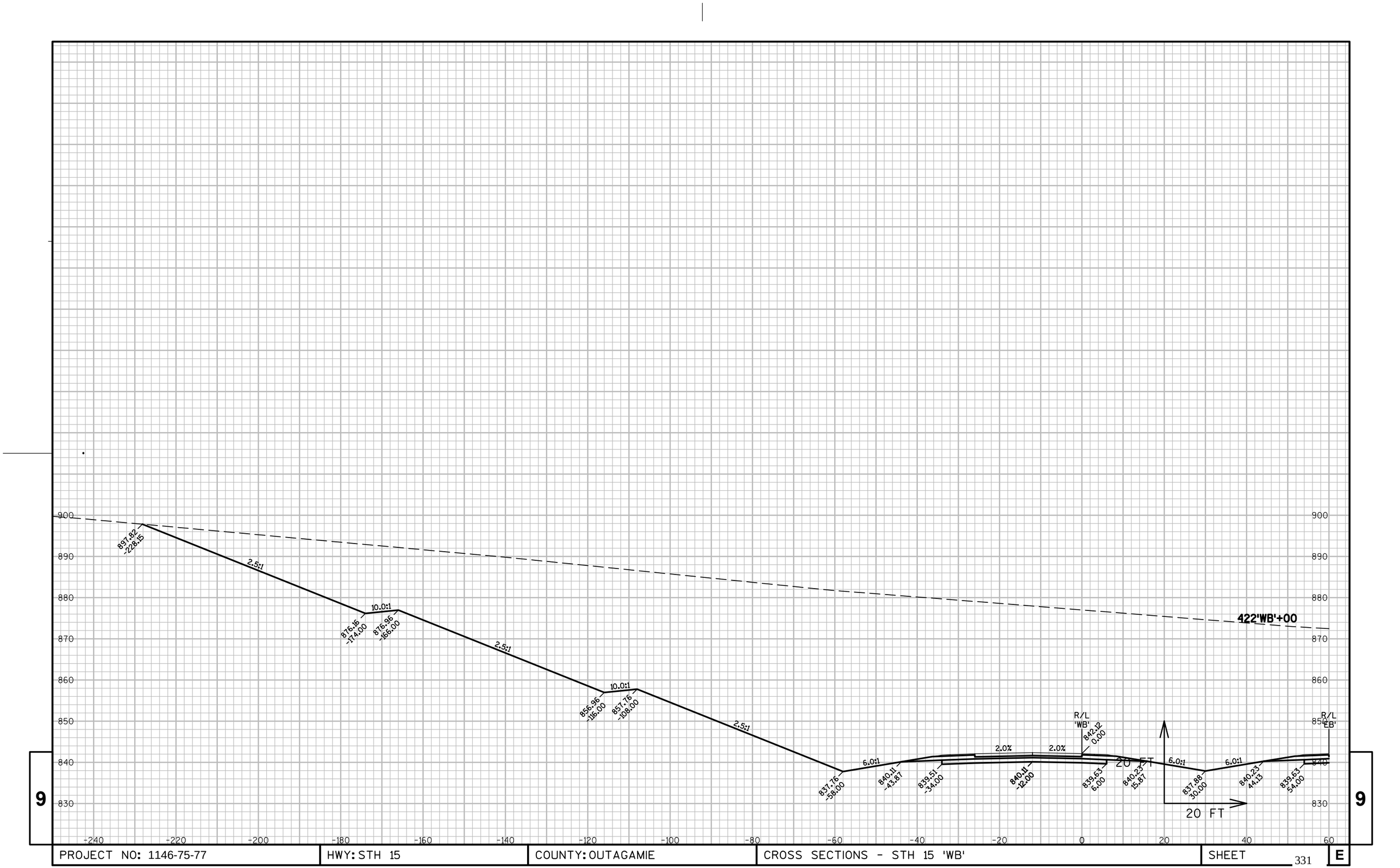
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 330	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 090397_XS

PLOT DATE : 3/6/2017 1:17 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

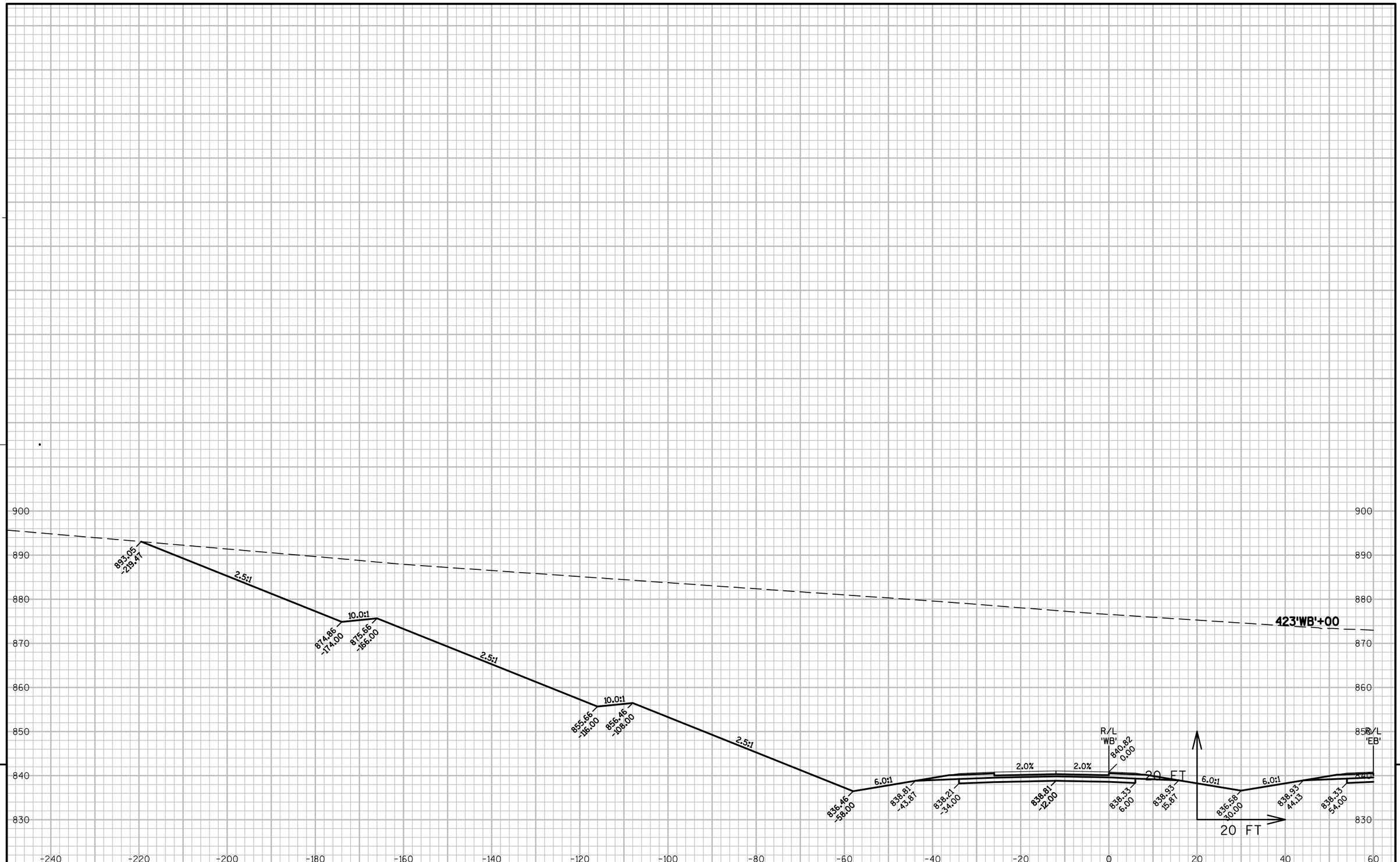


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 331 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 090398_XS

PLOT DATE : 3/6/2017 1:17 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



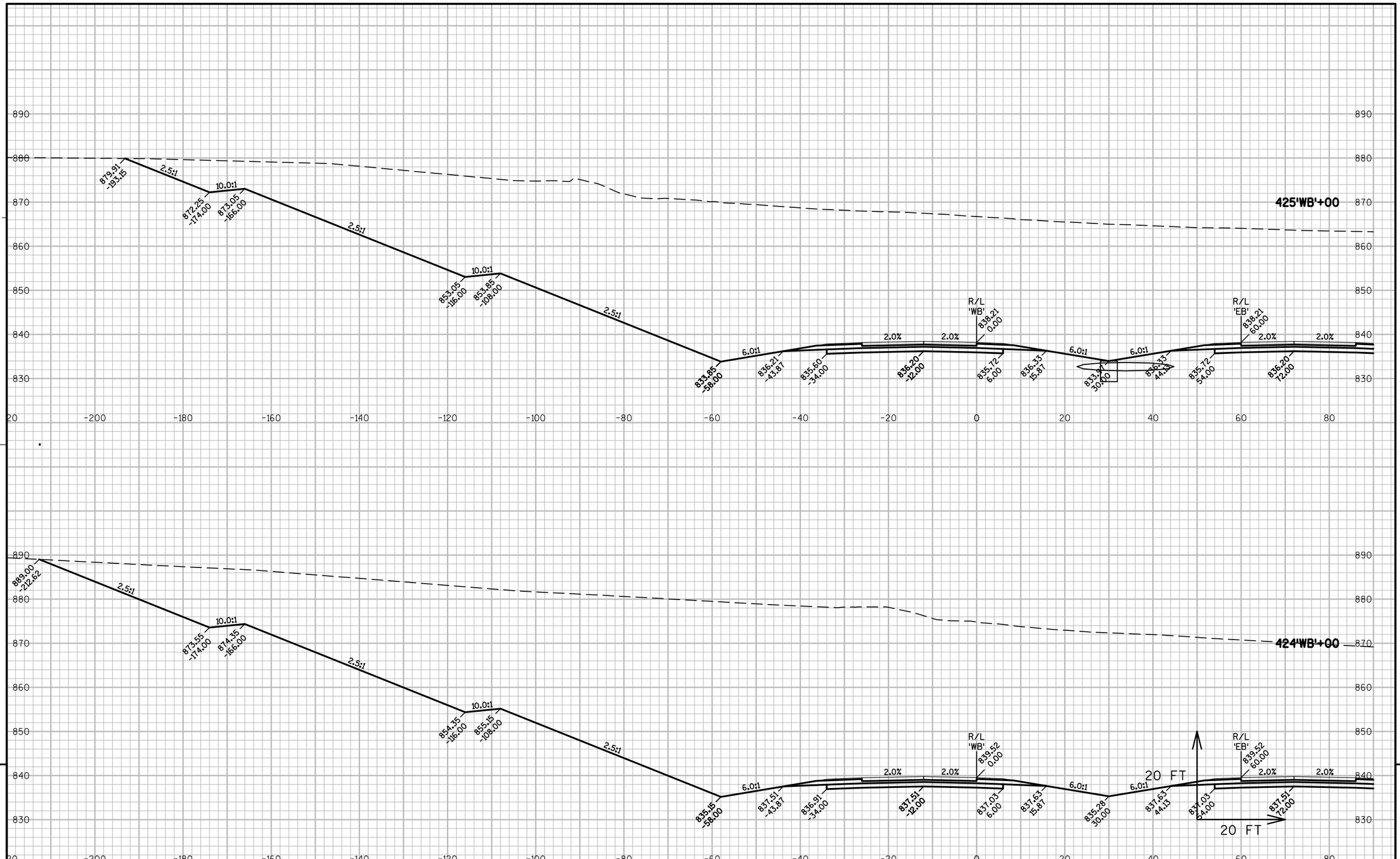
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 332 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 090399_XS

PLOT DATE : 3/6/2017 1:17 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



9

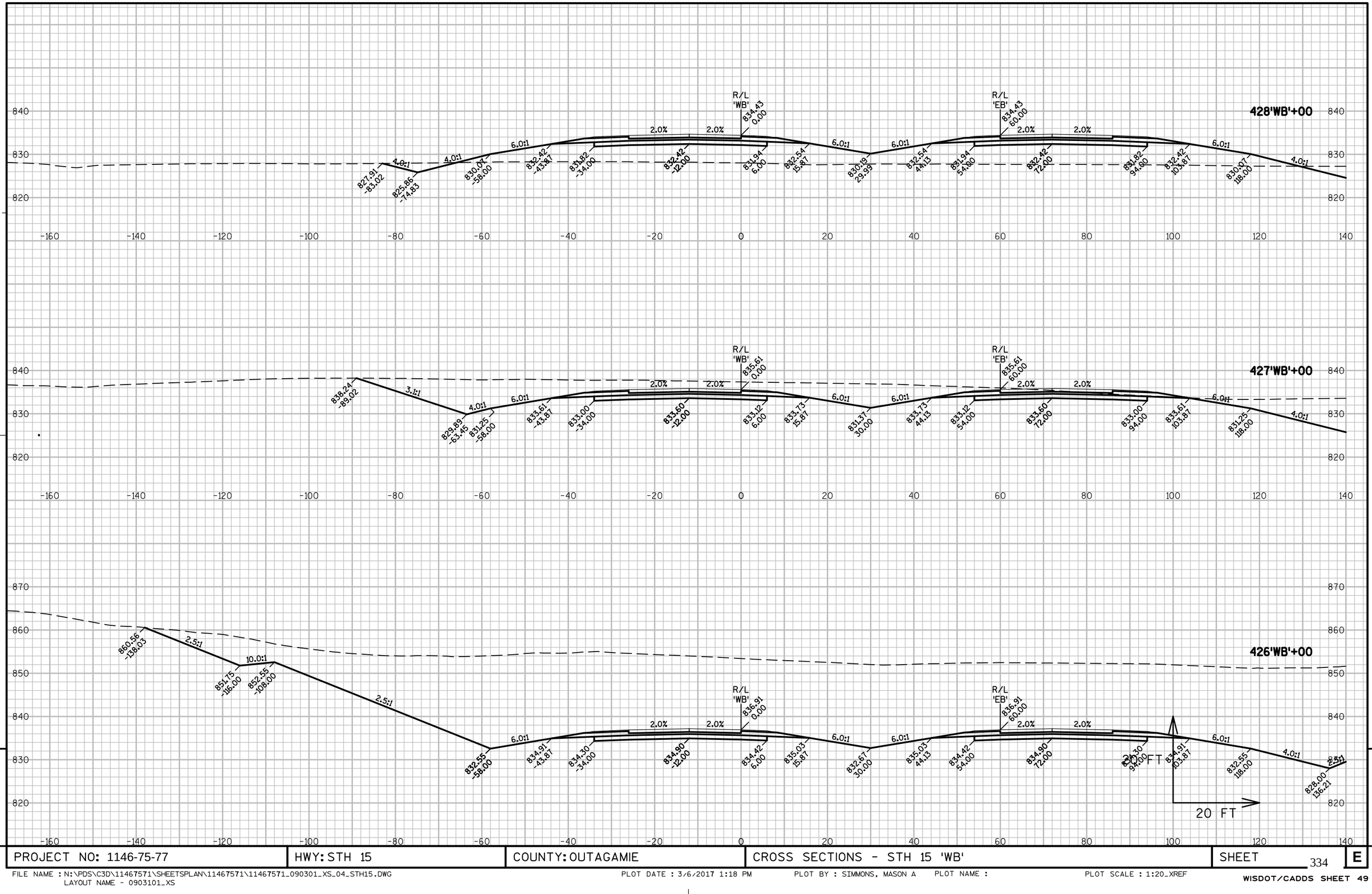
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 333	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903100_XS

PLOT DATE : 3/6/2017 1:17 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

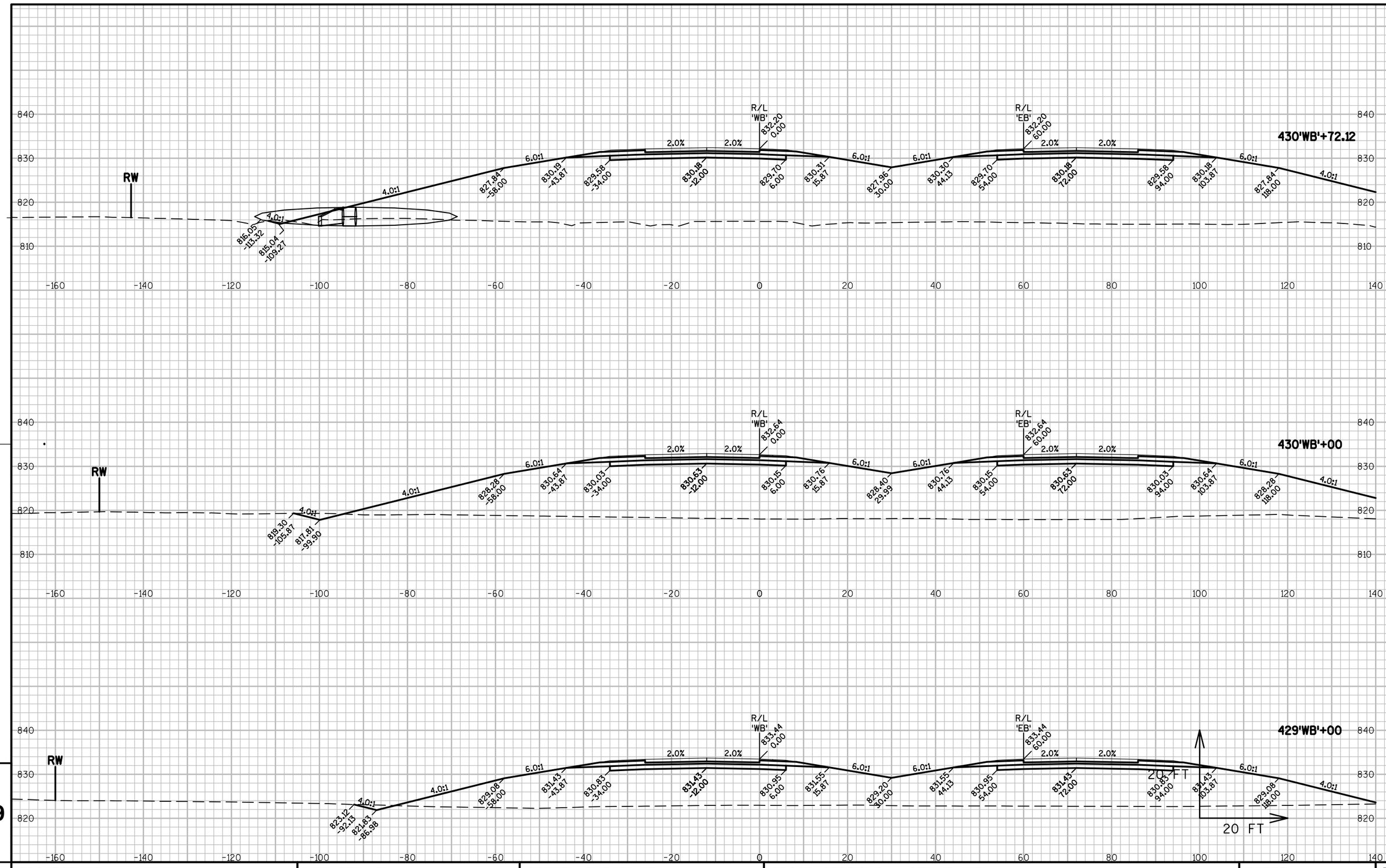
WISDOT/CADDS SHEET 49



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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 334	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903101_XS
PLOT DATE : 3/6/2017 1:18 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49



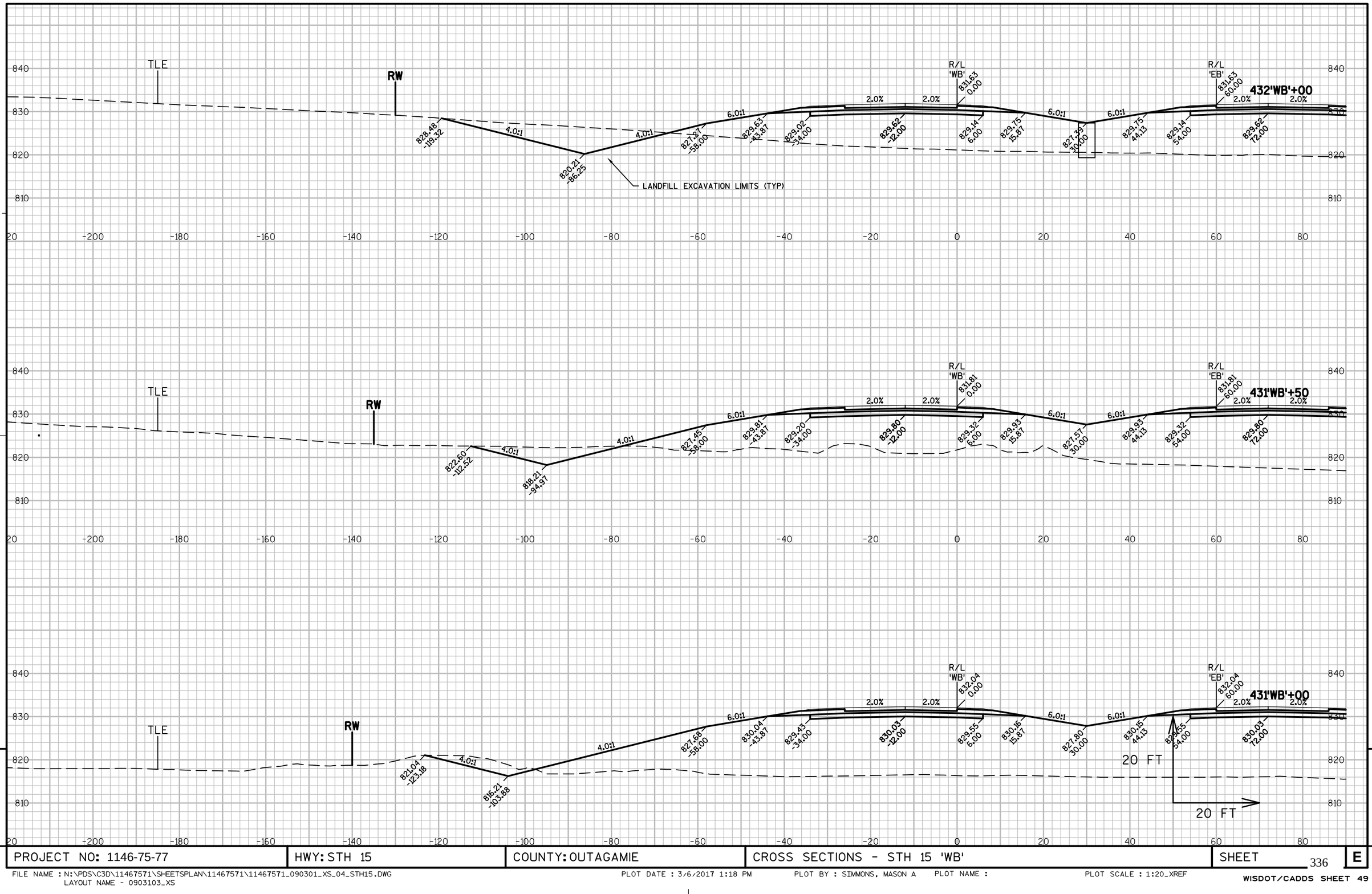
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 335	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903102_XS

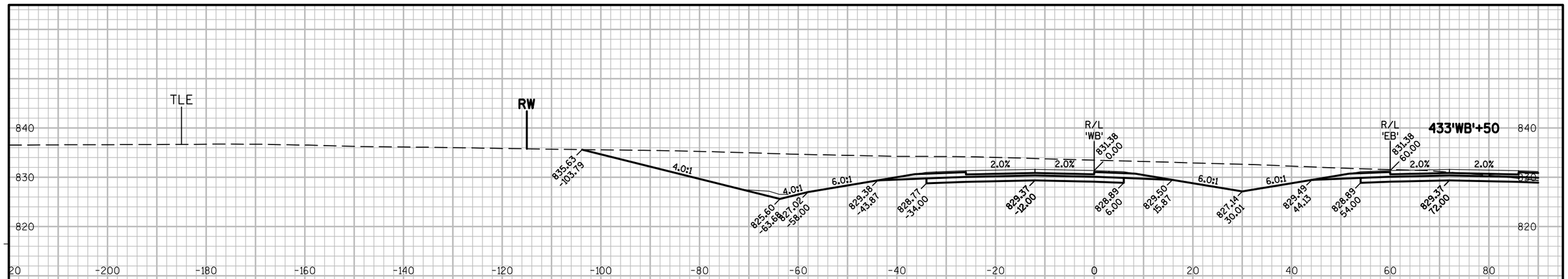
PLOT DATE : 3/6/2017 1:18 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

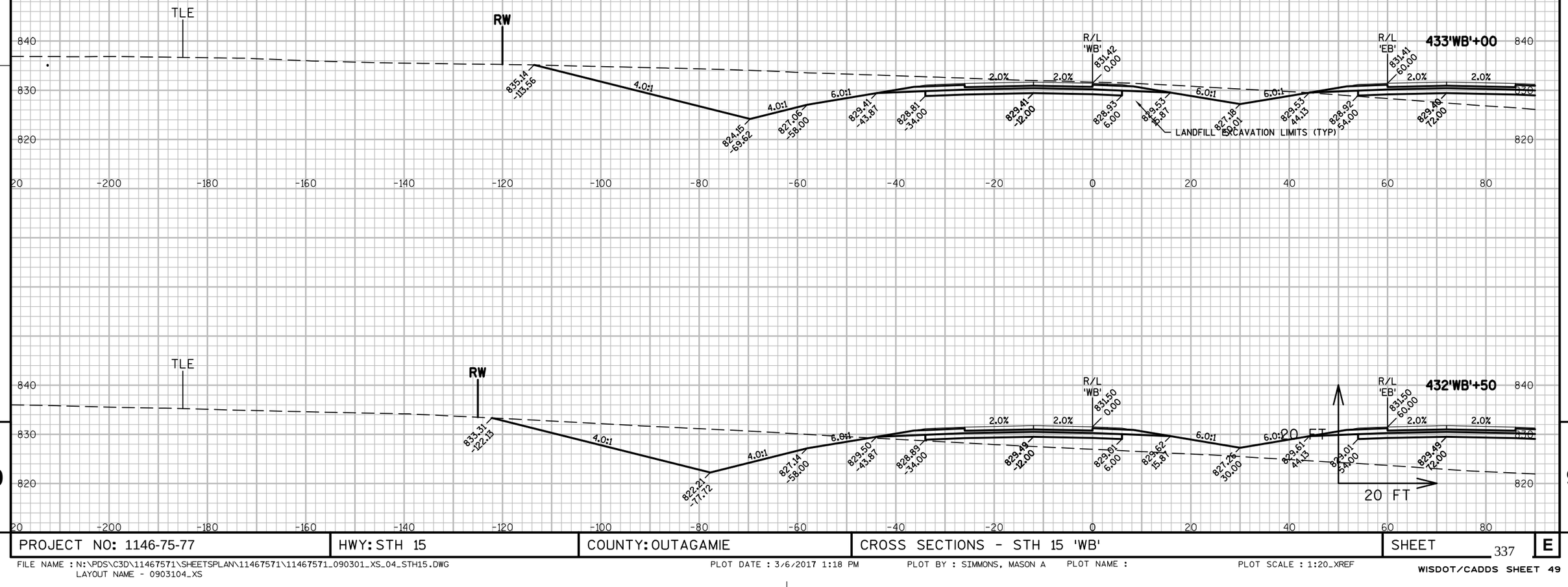


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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 336	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903103_XS
PLOT DATE : 3/6/2017 1:18 PM
PLOT BY : SIMMONS, MASON A
PLOT NAME :
PLOT SCALE : 1:20_XREF





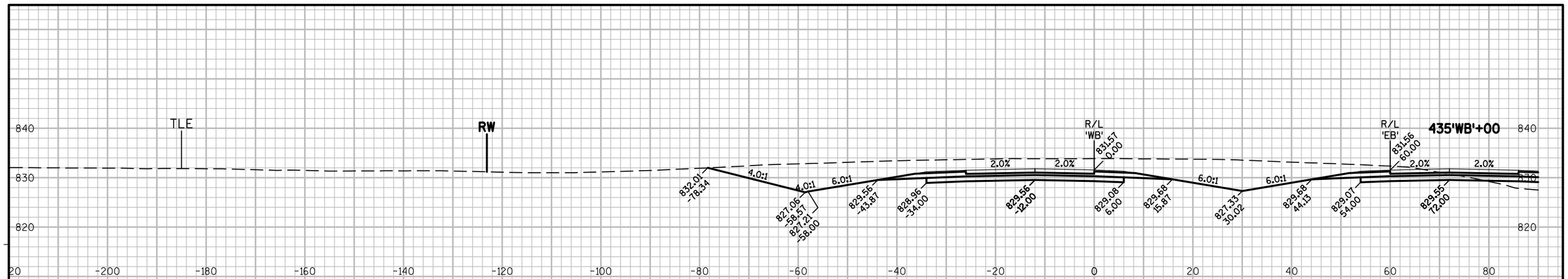
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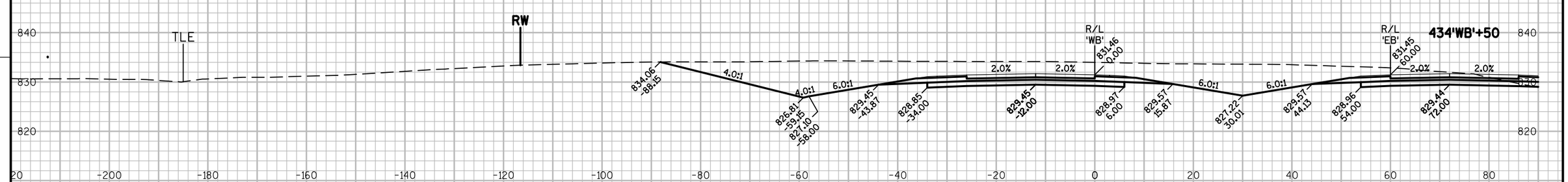
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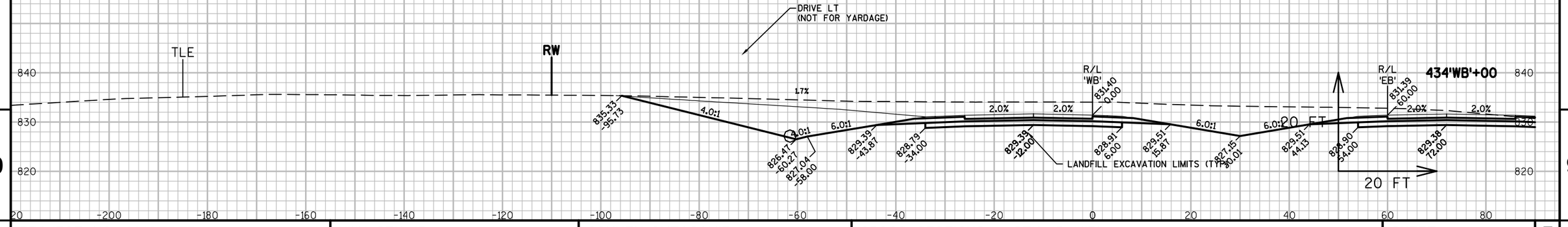
PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 337	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903104_XS

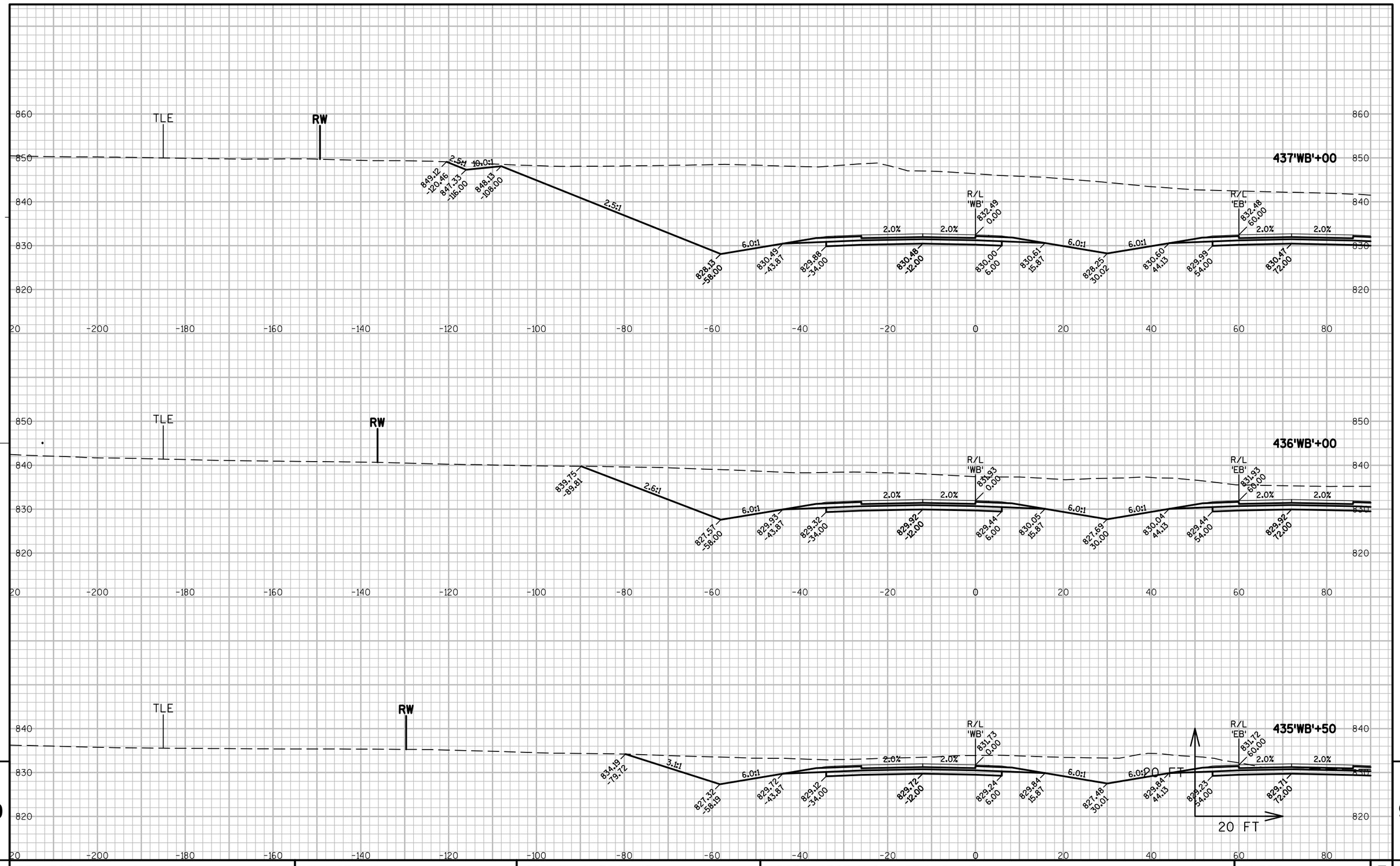
PLOT DATE : 3/6/2017 1:18 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF







PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 338	E



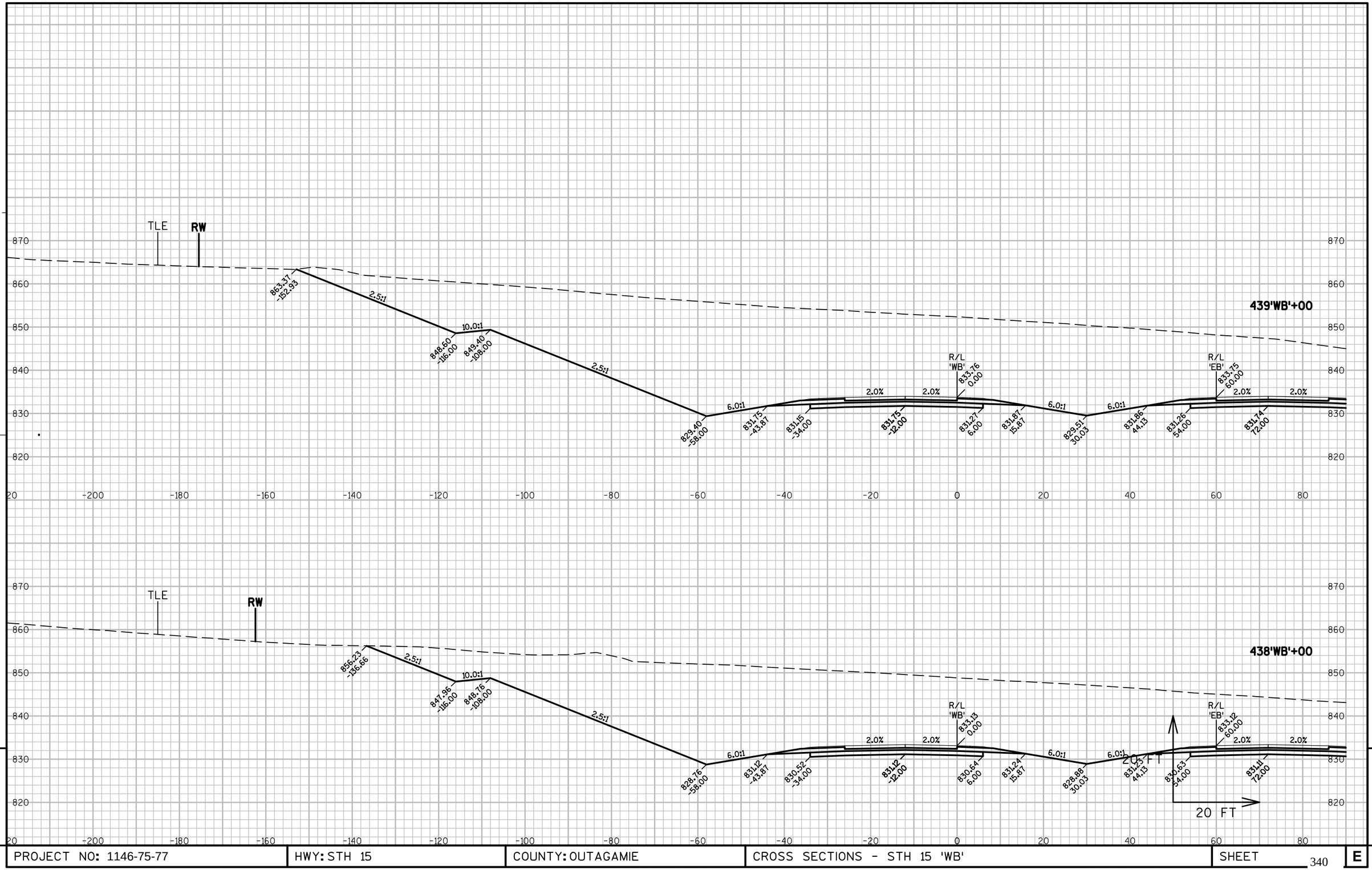
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 339	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903106_XS

PLOT DATE : 3/6/2017 1:19 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

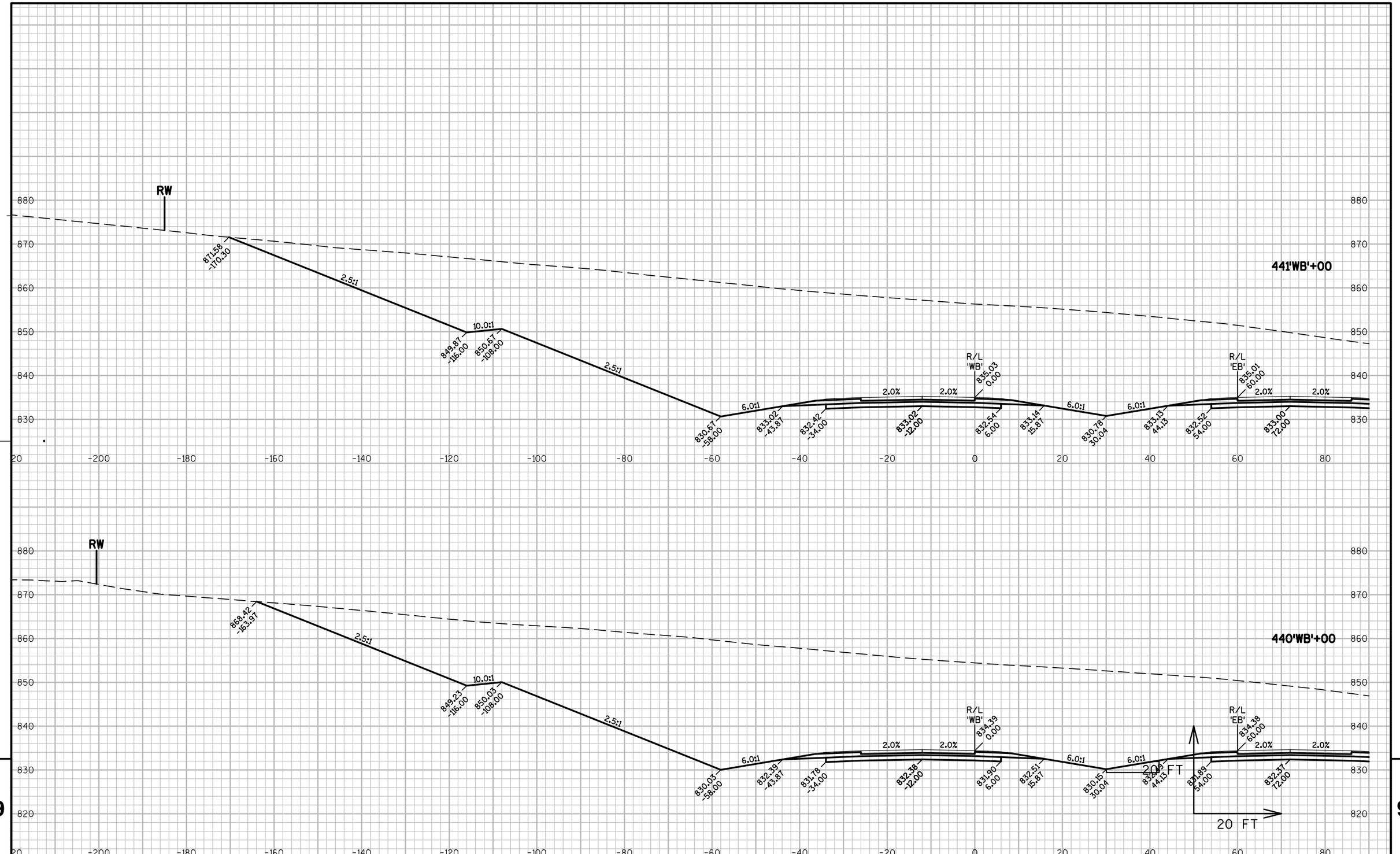


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 340	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903107_XS

PLOT DATE : 3/6/2017 1:19 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



9

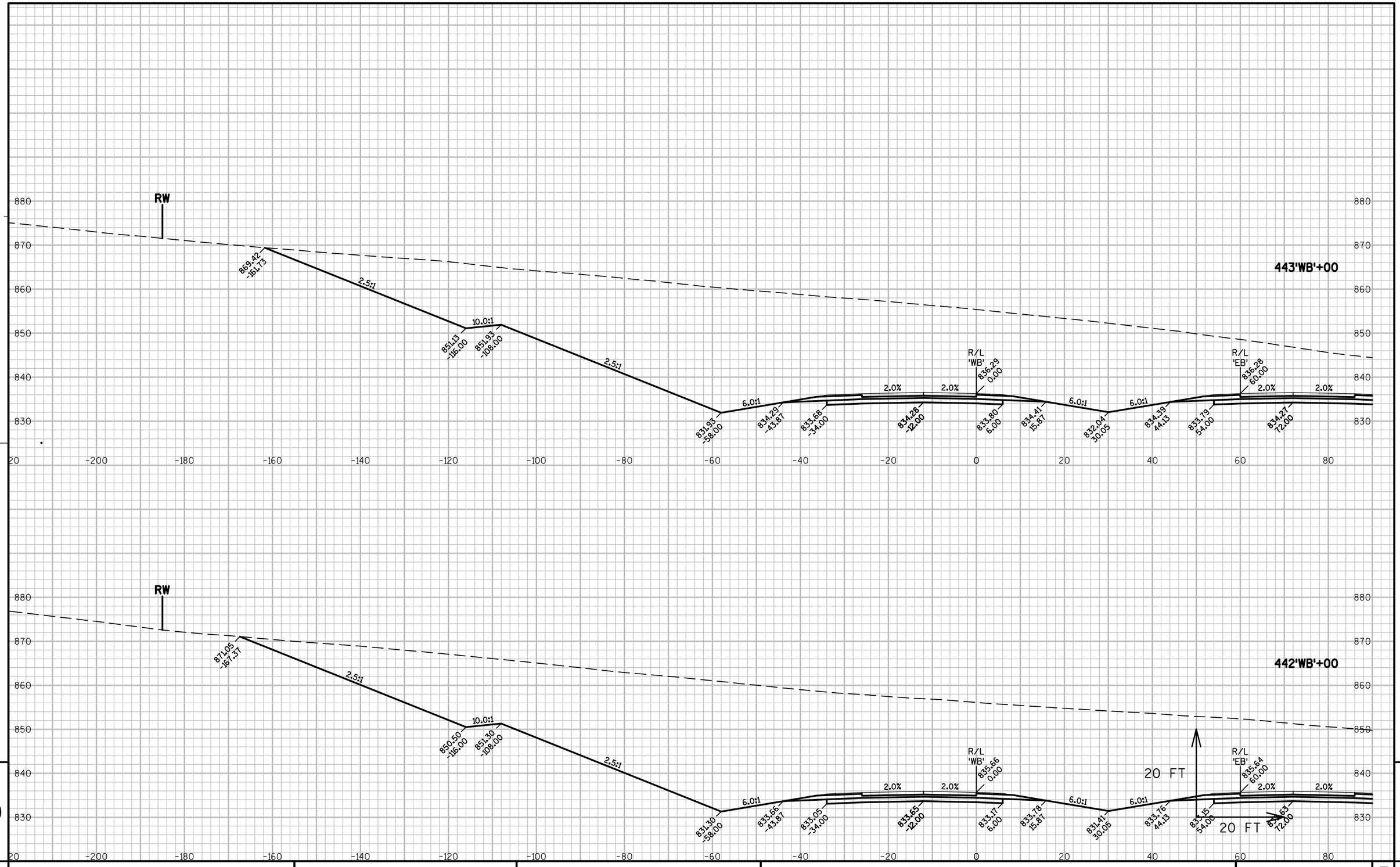
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 341	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903108_XS

PLOT DATE : 3/6/2017 1:20 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

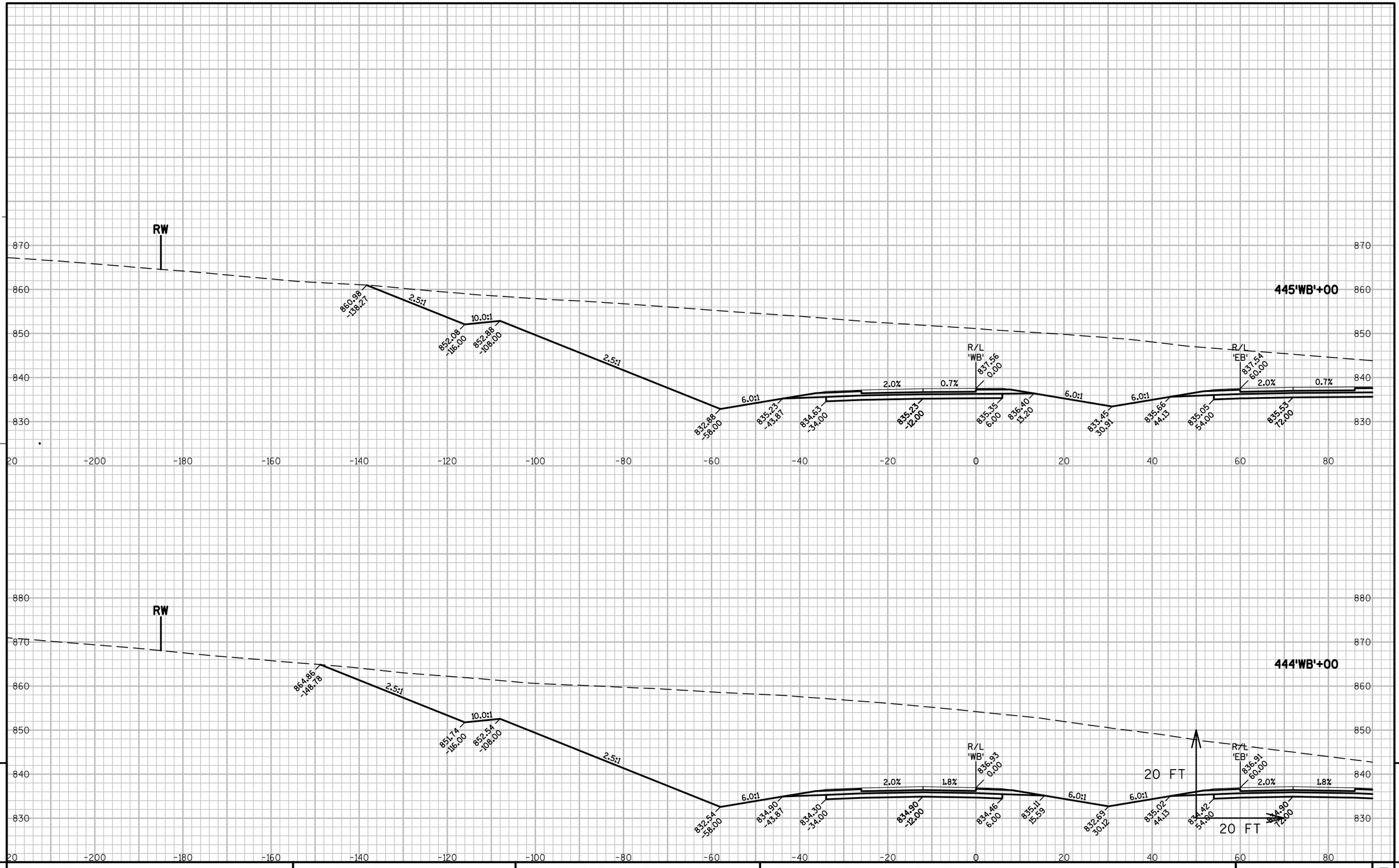


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 342	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903109_XS

PLOT DATE : 3/6/2017 1:20 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

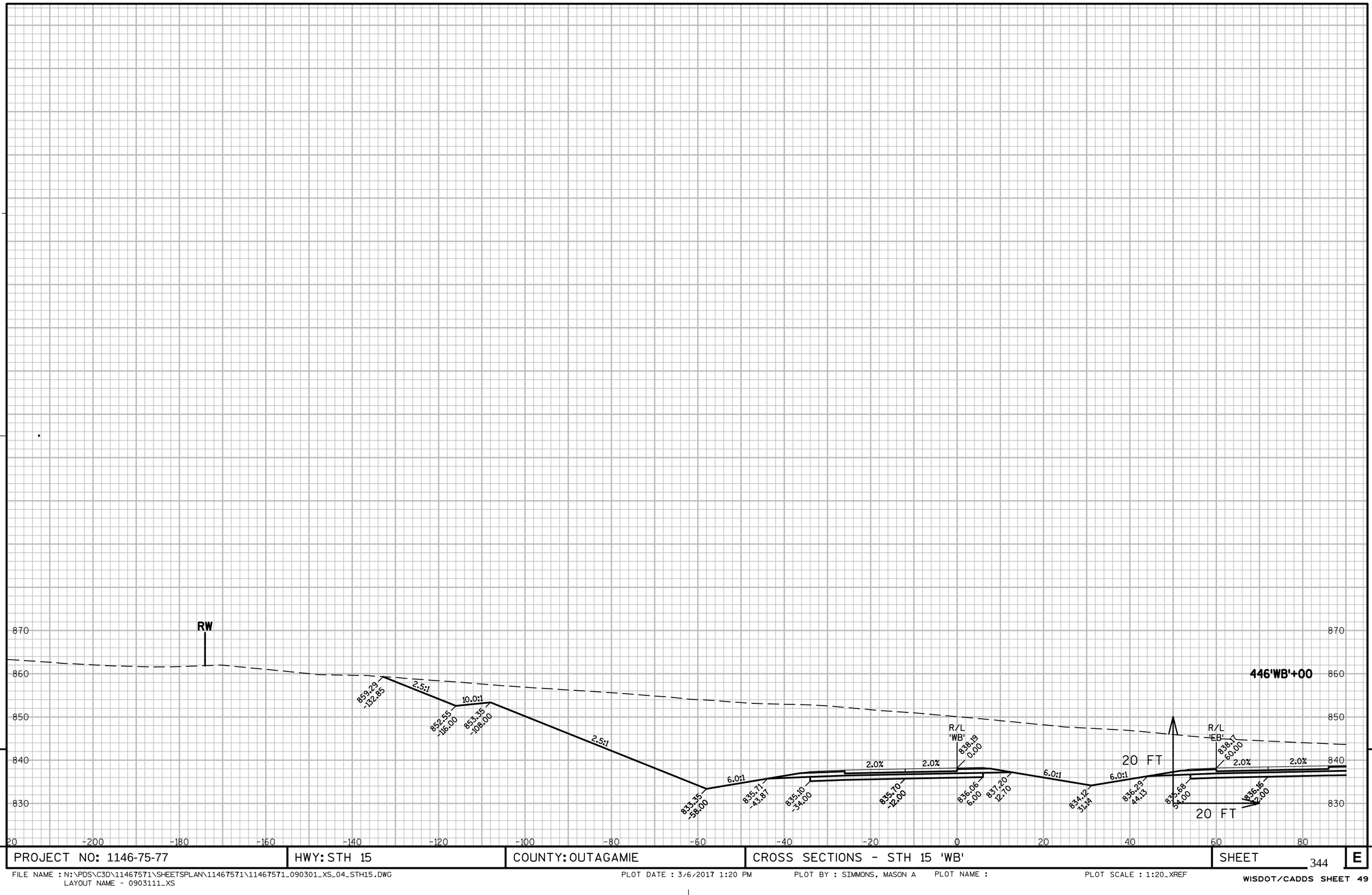
WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 343	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903110_XS

PLOT DATE : 3/6/2017 1:20 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

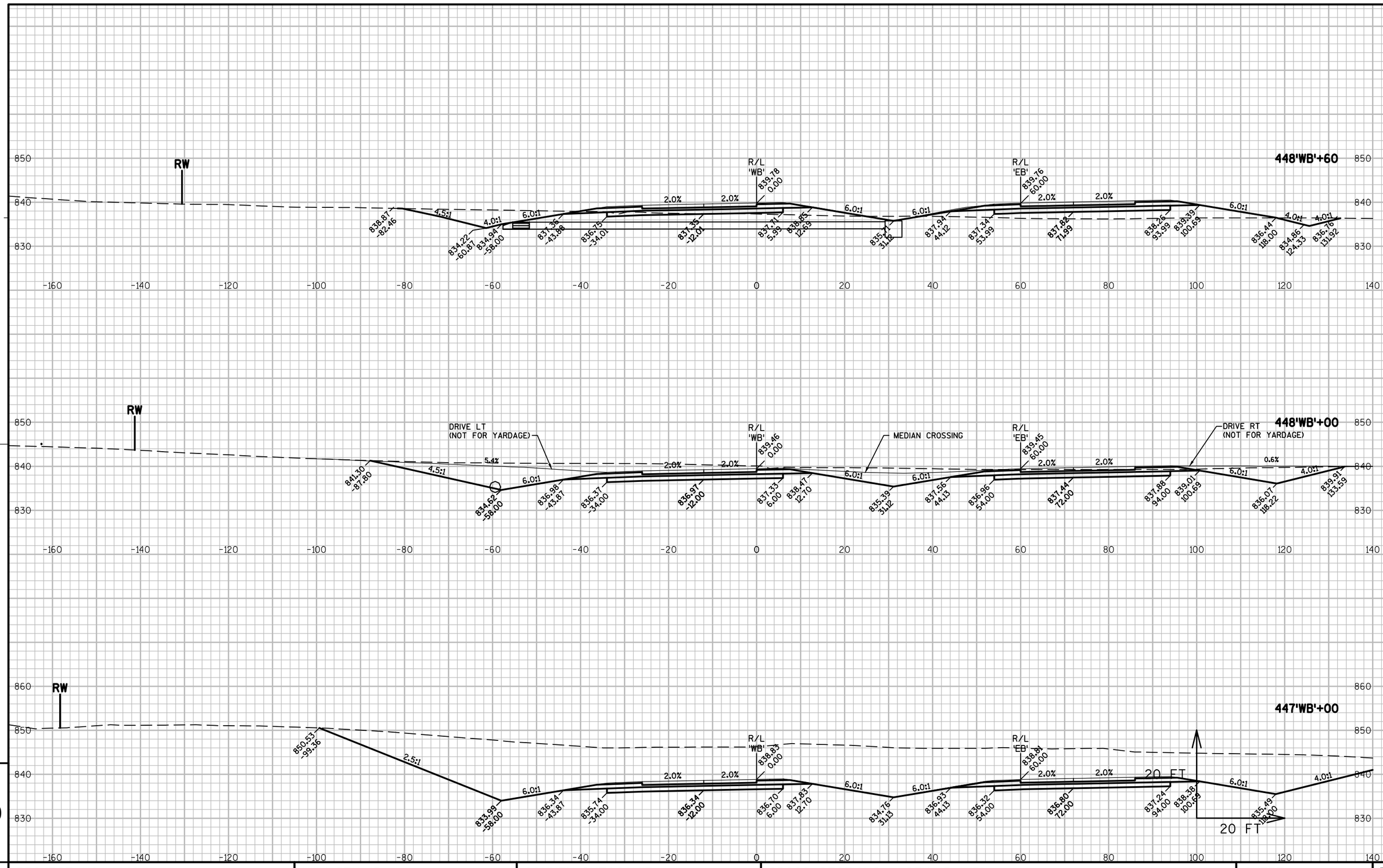


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 344	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903111_XS

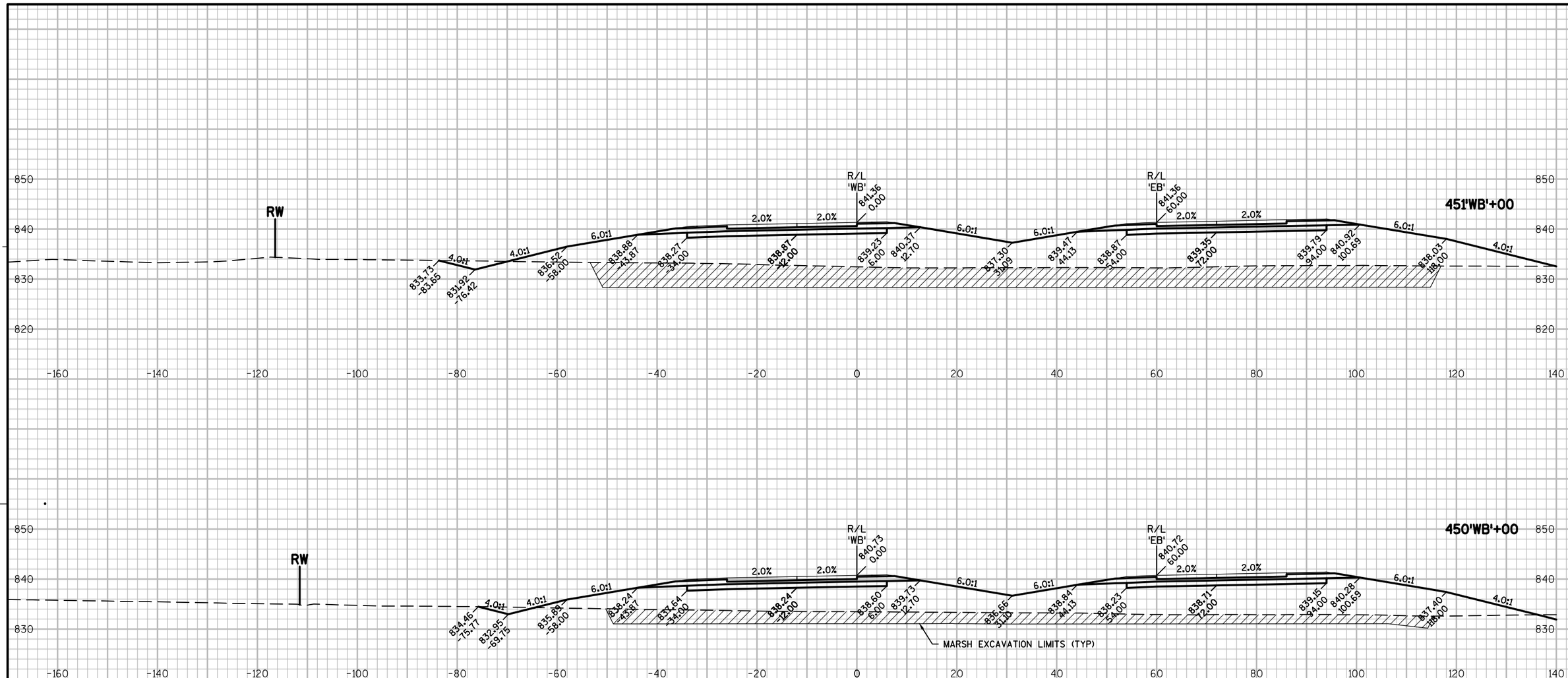
PLOT DATE : 3/6/2017 1:20 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

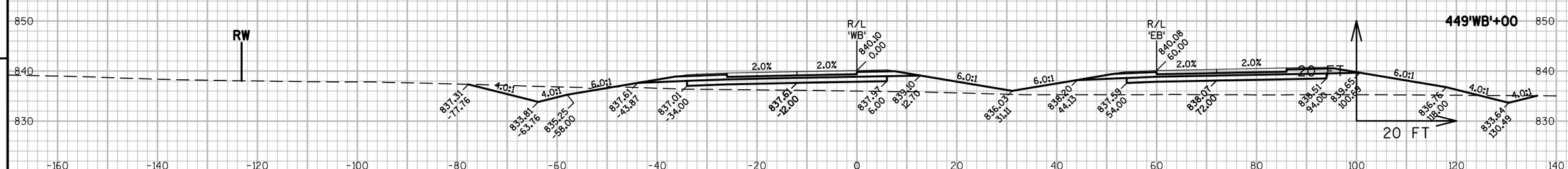
WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 345	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903112_XS
PLOT DATE : 3/6/2017 1:21 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49





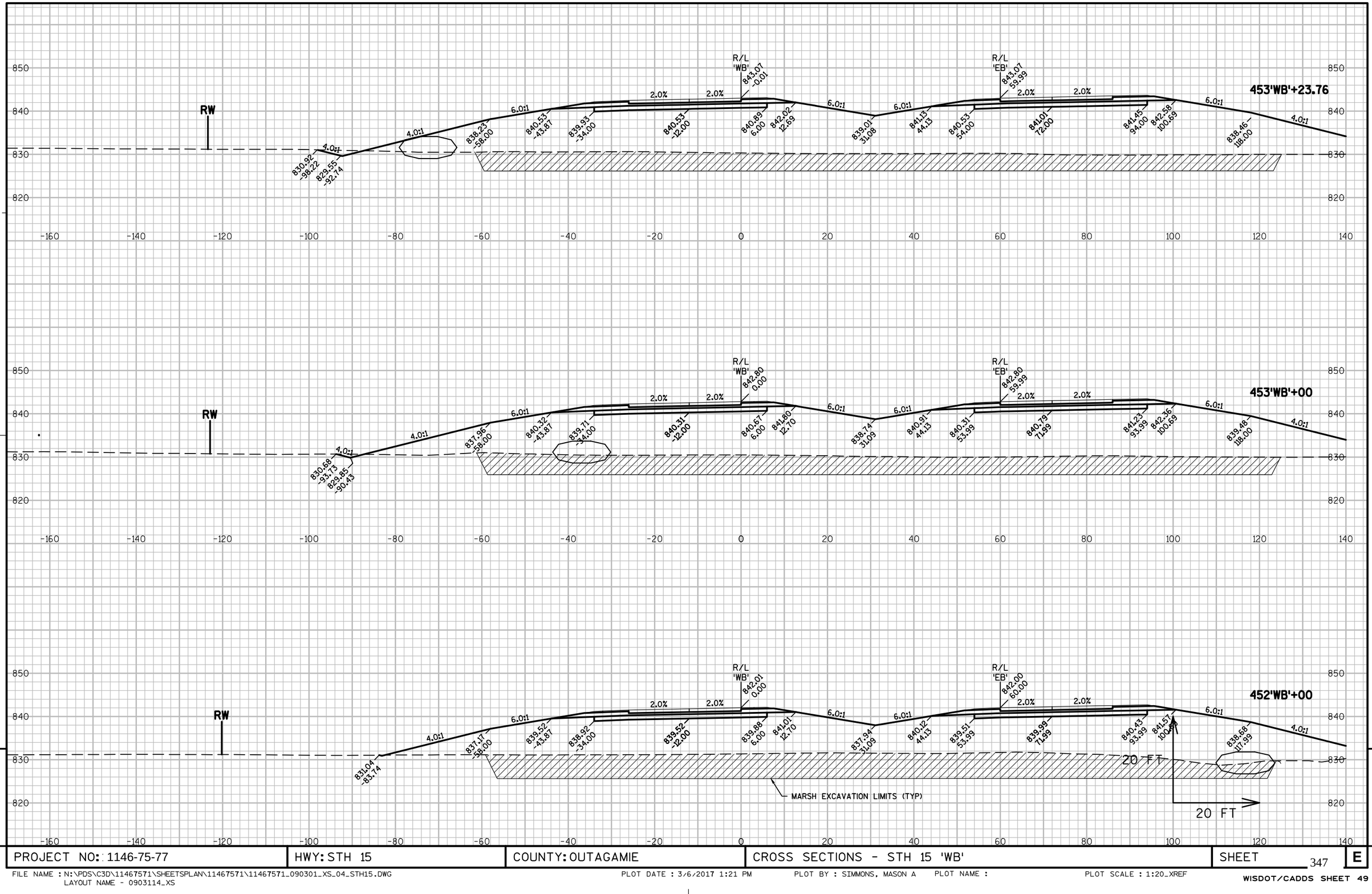
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9

PROJECT NO 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 346	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903113_XS

PLOT DATE : 3/6/2017 1:21 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

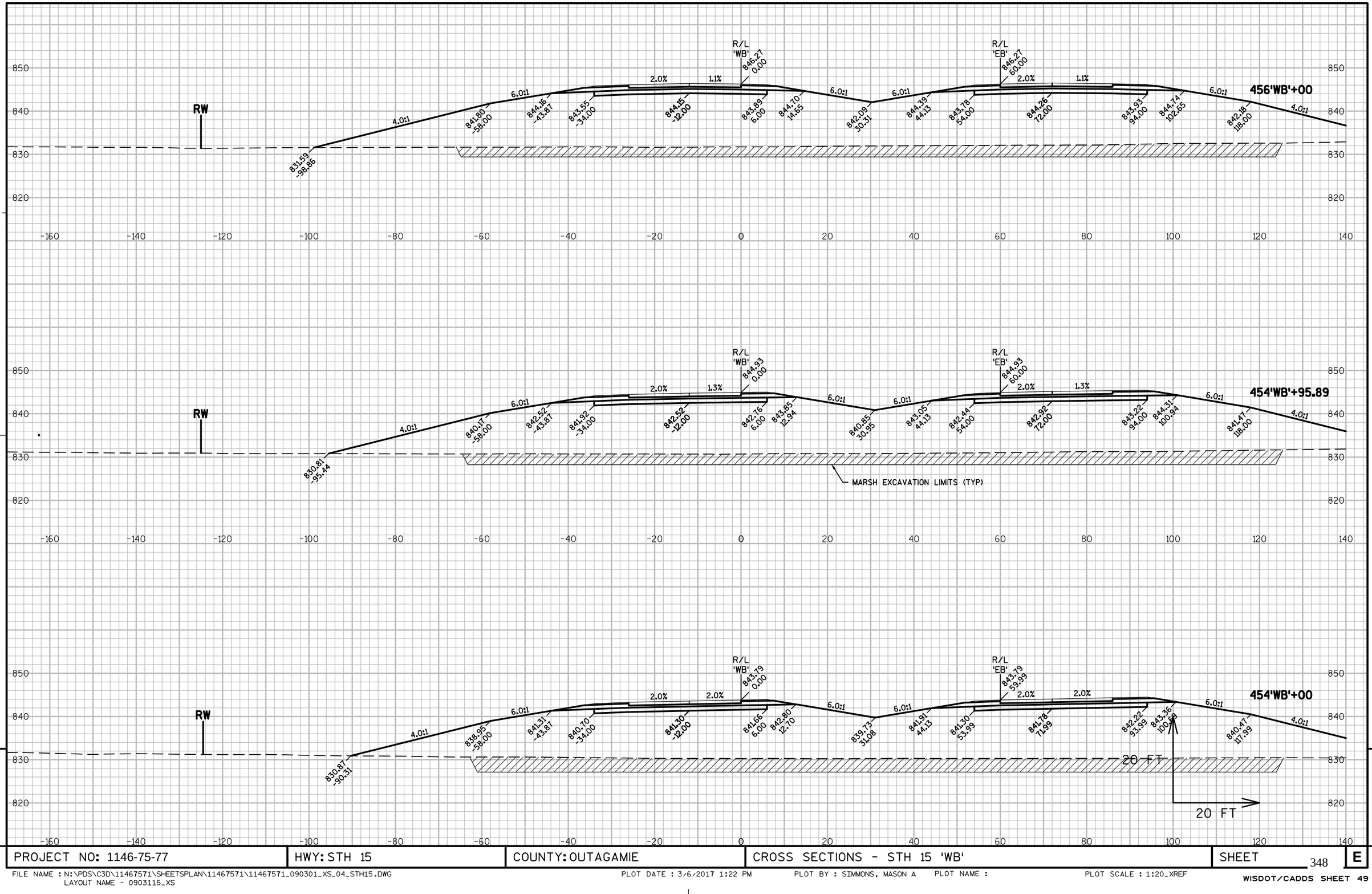


PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 347	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903114_XS

PLOT DATE : 3/6/2017 1:21 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



9

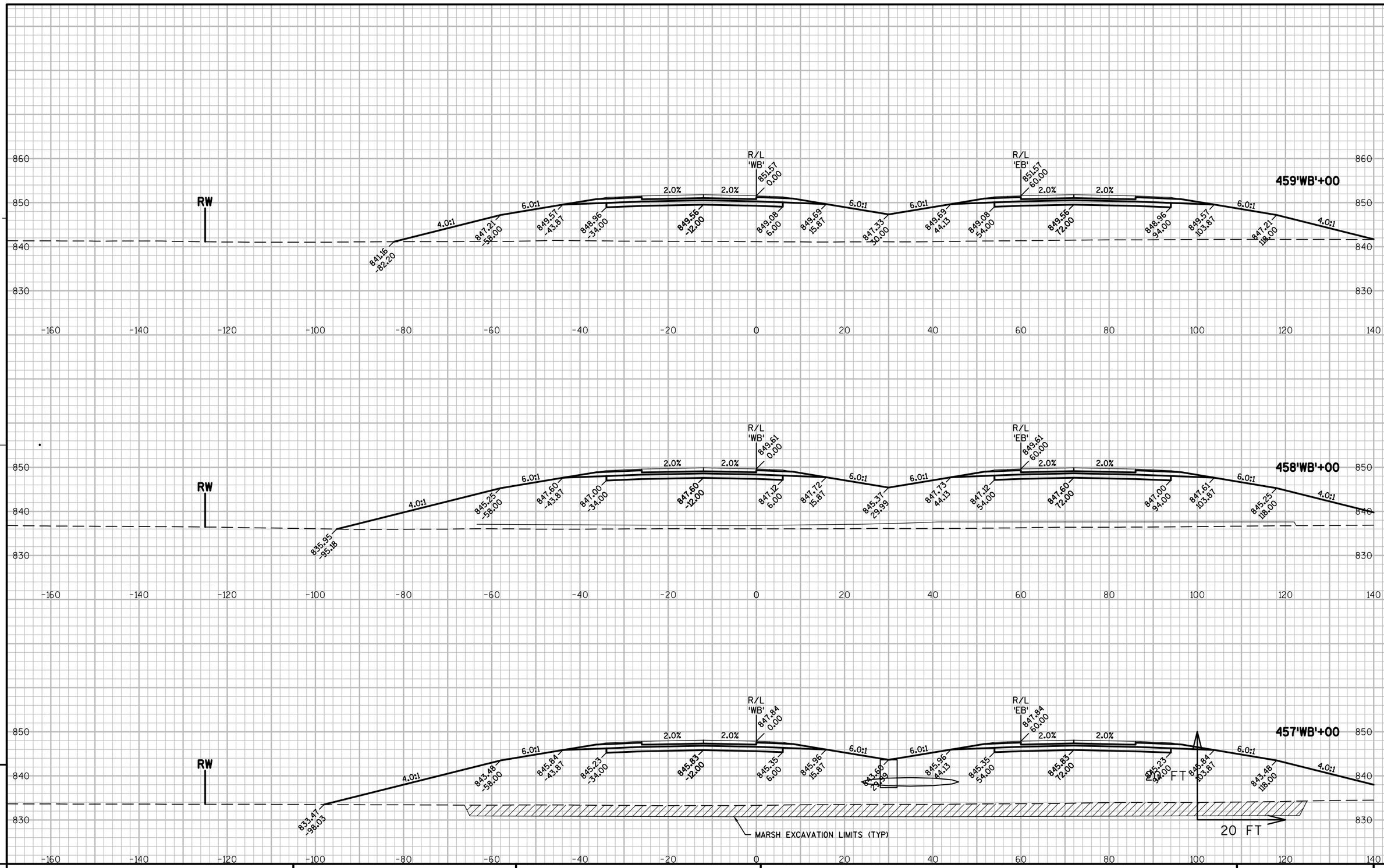
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 348	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903115_XS

PLOT DATE : 3/6/2017 1:22 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

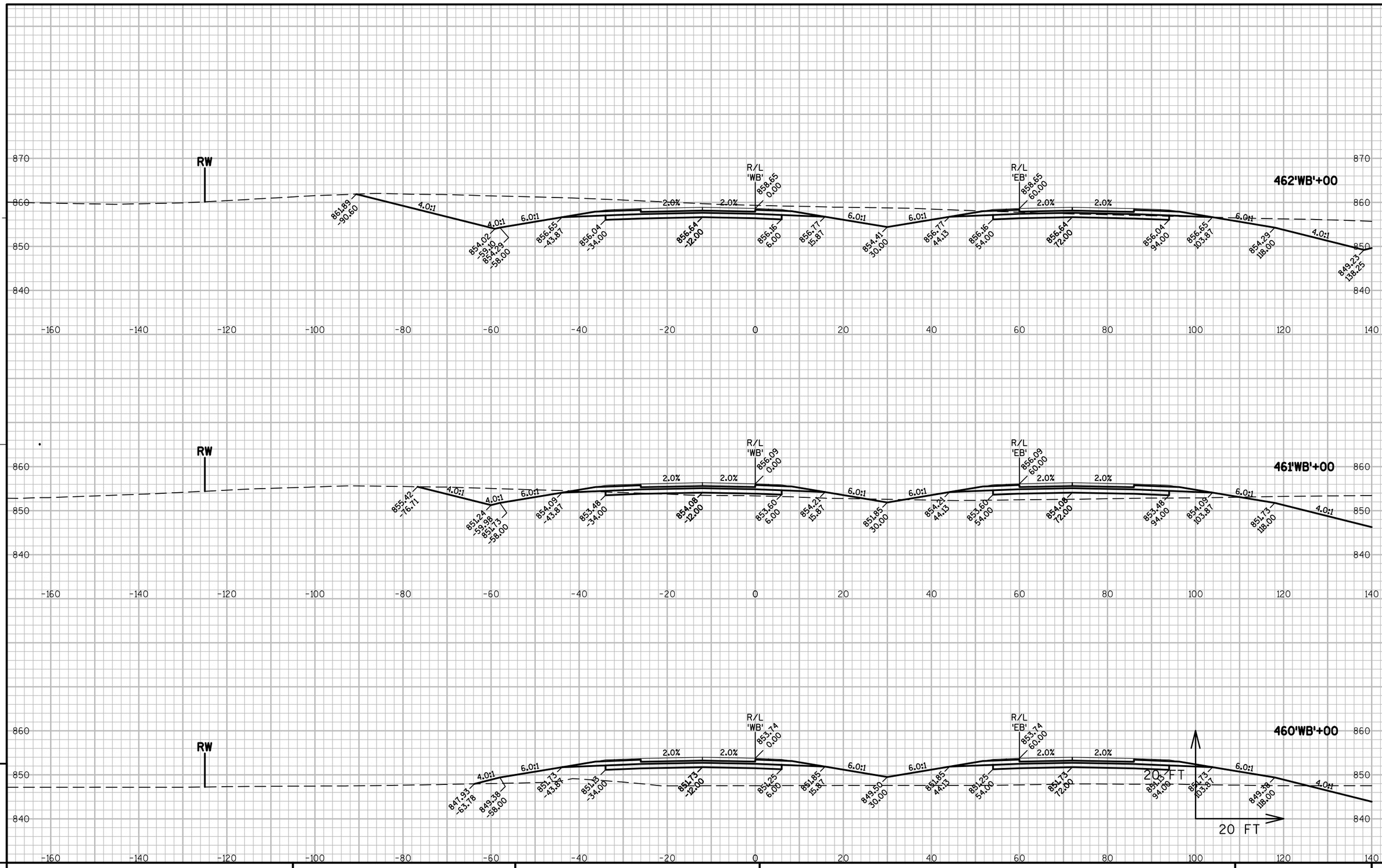


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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 349	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903116_XS
PLOT DATE : 3/6/2017 1:22 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49



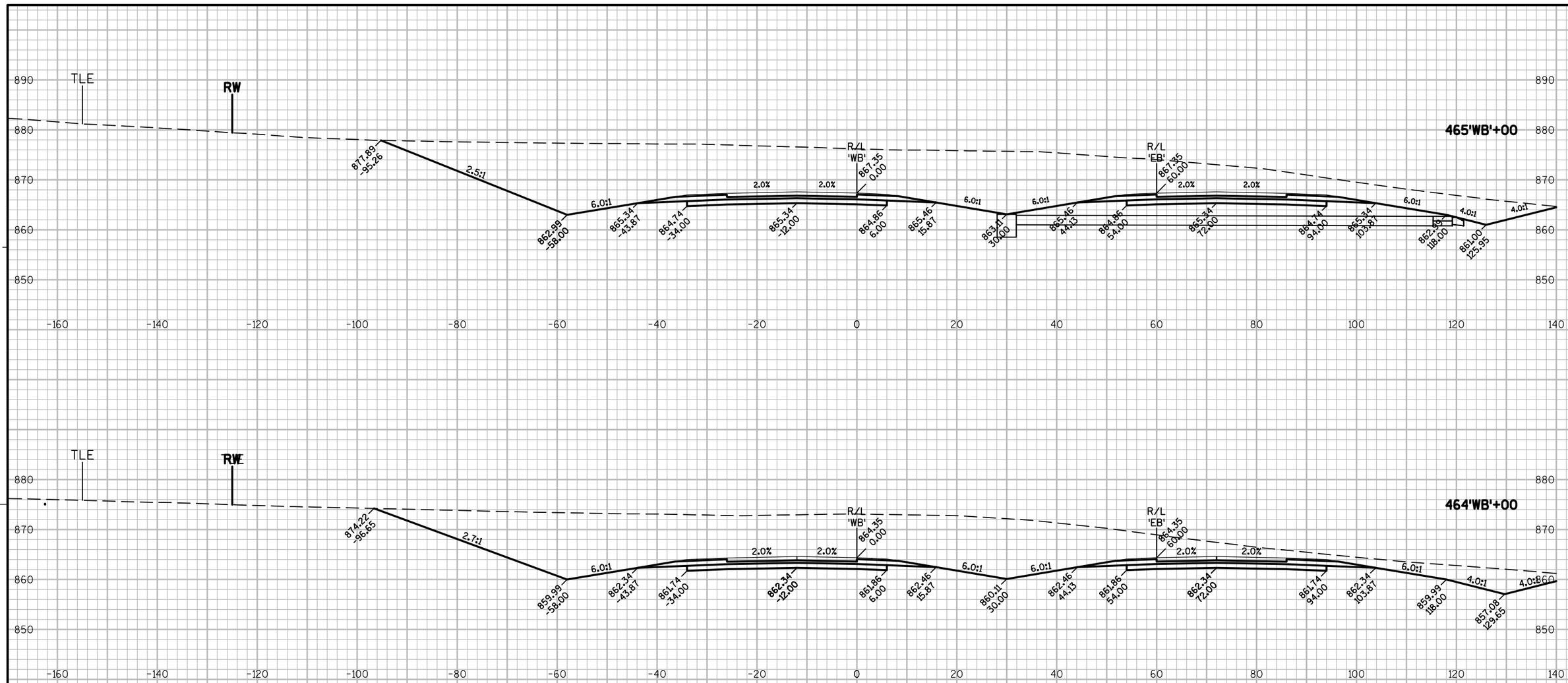
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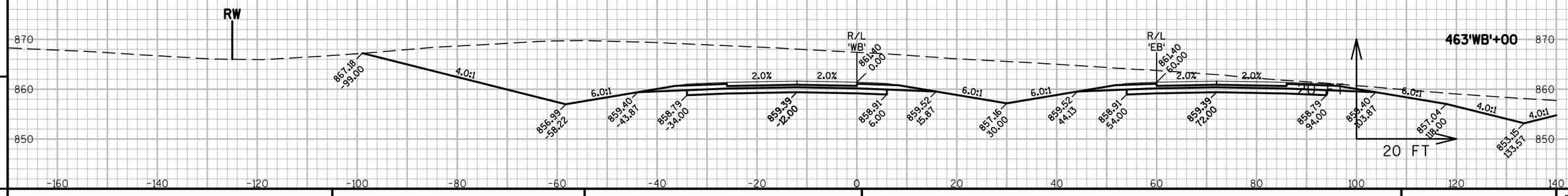
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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 350	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903117_XS

PLOT DATE : 3/6/2017 1:22 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF





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PROJECT NO: 1146-75-77	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 351	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903118_XS
PLOT DATE : 3/6/2017 1:23 PM
PLOT BY : SIMMONS, MASON A
PLOT NAME :
PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49

Wisconsin Department of Transportation

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