EAU | NOVEMBER 2025

PROJECT ID: **1530-05-75**

WITH: N/A

COUNTY: **PEPIN**

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 = 270



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

ELLSWORTH - DURAND

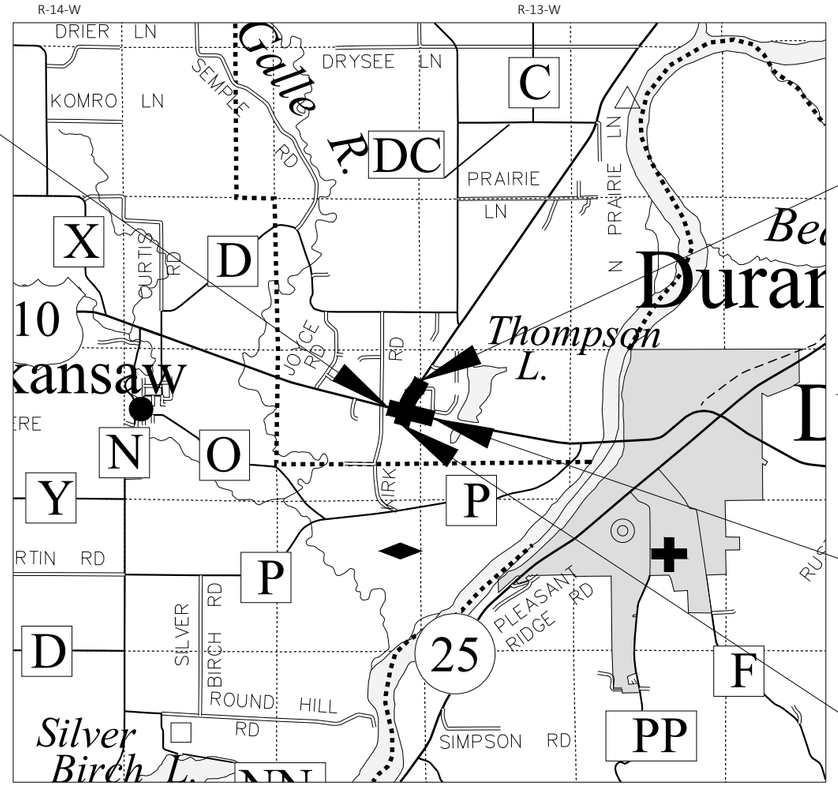
STH 25 N INTERSECTION

USH 10

PEPIN COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1530-05-75	WISC 2026049	1

STATE PROJECT NUMBER
1530-05-75



BEGIN PROJECT
STA 372+82EB
Y= 281,728.823
X= 609,638.546

END CONSTRUCTION
STA 108+02SB

END PROJECT
STA 389+67EB

BEGIN CONSTRUCTION
STA 98+18SB

LAYOUT
SCALE 0 1 MI

TOTAL NET LENGTH OF CENTERLINE = 0.319 MI

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

DESIGN DESIGNATION 1530-05-75

A.A.D.T.	2026	=	6,940
A.A.D.T.	2046	=	7,520
D.H.V.		=	670
D.D.		=	50/50
T.		=	14.6%
DESIGN SPEED		=	60 MPH
ESALS		=	3,500,000

CONVENTIONAL SYMBOLS

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

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

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

ORIGINAL PLANS PREPARED BY

cbs²

WISCONSIN
TAMMY S. TUCKER
E-40780
WAUKESHA, WI
PROFESSIONAL ENGINEER

DATE: 7/25/2025 Tammy Tucker
(Professional Engineer Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	CBS SQUARED, INC.
Designer	CBS SQUARED, INC.
Project Manager	NATHAN ULNESS, P.E.
Regional Examiner	NW REGION
Regional Supervisor	NATHAN ULNESS, P.E

APPROVED FOR THE DEPARTMENT

DATE: 7/28/2025 Nathan Ulness
(Signature)

E

GENERAL NOTES

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

THE LOCATIONS OF THE 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.

WHEN THE QUANTITY OF BASE AGGREGATE IS MEASURED BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

DISTURBED AREAS WITHIN THE RIGHT OF WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED AND E-MAT AS SPECIFIED IN PLANS.

WHEN PORTIONS OF EXISTING ASPHALTIC SURFACES ARE TO BE REMOVED TO ACCOMMODATE NEW CONSTRUCTION, THE LINE OF SUCH REMOVAL SHALL BE NEATLY DELINEATED WITH A SAW CUT JOINT THROUGH THE ASPHALTIC SURFACE SO THAT REMOVAL OF THE ASPHALT SHALL BE ACCOMPLISHED WITHOUT DAMAGE TO REMAINING PORTIONS. THE LOCATION OF SAW JOINTS AND THE AMOUNT REMOVED AT SIDE ROADS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

APPLY TACK COAT AT A RATE OF 0.07 GAL/SY TO MILLED PAVEMENT SURFACES AND 0.05 GAL/SY BETWEEN LAYERS OF HMA PAVEMENT.

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

THE CONTRACTOR'S PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, PASSING OR PARKING LANE.

ALL CONCRETE JOINTS REQUIRE FILLING AND PAID UNDER BID ITEM CONCRETE PAVEMENT JOINT FILLING.

STANDARD ABBREVIATIONS

AC	ACRE
AGG	AGGREGATE
AH	AHEAD
AADT	ANNUAL AVERAGE DAILY TRAFFIC
ASPH	ASPHALTIC
AVG	AVERAGE
BK	BACK
BAD	BASE AGGREGATE DENSE
BM	BENCH MARK
BR	BRIDGE
CL OR C/L	CENTER LINE
CE	COMMERCIAL ENTRANCE
CONC	CONCRETE
CO	COUNTY
CTH	COUNTY TRUNK HIGHWAY
CR	CREEK
CABC	CRUSHED AGGREGATE BASE COURSE
CY OR CUYD	CUBIC YARD
CULV	CULVERT
CP	CULVERT PIPE
C&G	CURB AND GUTTER
D	DEGREE OF CURVE
DIA	DIAMETER
DISCH	DISCHARGE
E	EAST
EB	EASTBOUND
EL OR ELEV	ELEVATION
EW	END WALL
ENT	ENTRANCE
EXC	EXCAVATION
EX	EXISTING
FERT	FERTILIZER
FE	FIELD ENTRANCE
FL OR F/L	FLOW LINE
FT	FOOT
HMA	HOT MIX ASPHALT
CWT	HUNDREDWEIGHT
INL	INLET
INV	INVERT
JCT	JUNCTION
LT	LEFT
L	LENGTH OF CURVE
LIN FT OR LF	LINEAR FOOT
LS	LUMP SUM
NC	NORMAL CROWN
N	NORTH
NB	NORTHBOUND
NO	NUMBER
PT	POINT
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
LB	POUND
PE	PRIVATE ENTRANCE
R	RADIUS
RL OR R/L	REFERENCE LINE
RT	RIGHT
R/W	RIGHT-OF-WAY
RD	ROAD
SHLDR	SHOULDER
SB	SOUTHBOUND
SF OR SQ FT	SQUARE FEET
SY OR SQ YD	SQUARE YARD
SDD	STANDARD DETAIL DRAWINGS
STH	STATE TRUNK HIGHWAY
SE	SUPERELEVATION
T	TANGENT
TEMP	TEMPORARY
USH	UNITED STATES HIGHWAY
V	VELOCITY OR DESIGN SPEED
VC	VERTICAL CURVE
WB	WESTBOUND
YD	YARD

UTILITY CONTACTS

ELECTRICITY

PIERCE PEPIN COOPERATIVE SERVICES
BRAD RISTOW
W7725 US HWY 10
P.O. BOX 420
ELLSWORTH, WI 54011-0420
(715) 273-2473
BRISTOW@PIERCEPEPIN.COOP

GAS/PETROLEUM

WE ENERGIES
STEVEN CHAVERS
104 W SOUTH AVE
RICE LAKE, WI 54868
(715) 234-9605 (OFFICE)
(715) 213-4327 (CELL)
STEVEN.CHAVERS@WE-ENERGIES.COM

COMMUNICATIONS

NTEC
MATT HOYT
318 3RD AVE W
DURAND, WI 54736
(715) 672-4204
MATT@NTECFIBER.COM

CHIPPEWA VALLEY CABLE
MATT HOYT
318 3RD AVE W
DURAND, WI 54736
(715) 672-4204
MATT@NTECFIBER.COM

RUNOFF COEFFICIENT TABLE

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

TOTAL PROJECT AREA = 10.30 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 5.89 ACRES

AREA CONTACTS

WISDOT CONTACT

NATHAN ULNESS
WISDOT NORTHWEST REGION
718 W CLAIREMONT AVENUE
EAU CLAIRE, WI 53701
(715) 836-3914
NATHAN.ULNESS@DOT.WI.GOV

DESIGN CONTACT

TAMMY TUCKER
CBS SQUARED, INC.
2500 E. ENTERPRISE AVE, SUITE A
APPLETON, WI 54913
(262) 613-8999
TTUCKER@CBSSQUAREDINC.COM

WISCONSIN DNR CONTACT

AMY LESIK
DNR NORTHWEST REGION
1300 WEST CLAIREMONT AVE
EAU CLAIRE, WI 54701
(715)836-6571
(715)495-1903
AMYL.LESIK@WISCONSIN.GOV

ORDER OF SECTION 2 SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
EROSION CONTROL
STORM SEWER
LIGHTING PLAN "DESIGN BY MSA PROFESSIONAL SERVICES"
PAVEMENT MARKING
TRAFFIC CONTROL
ALIGNMENT PLAN

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

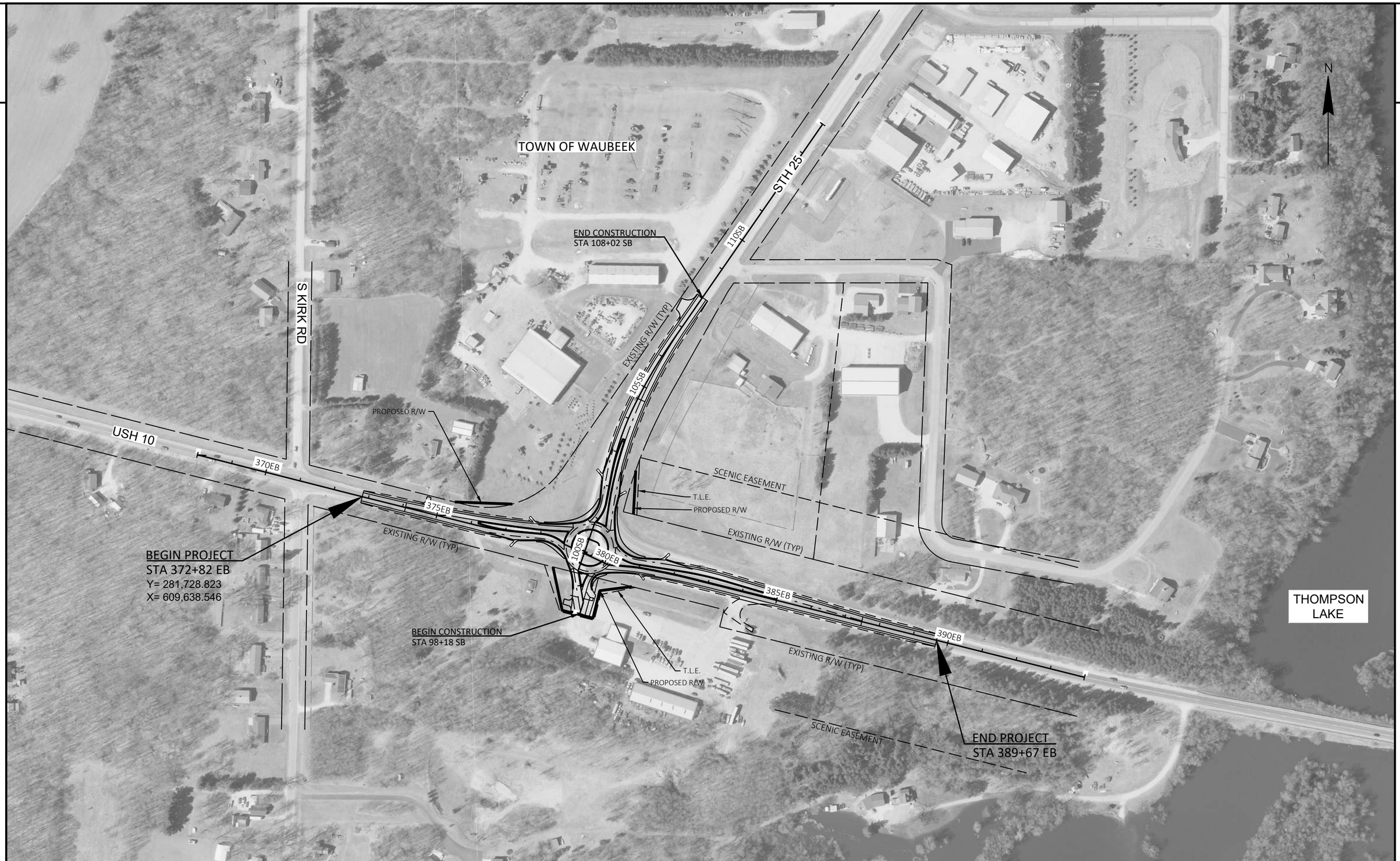
2

BORING & CORING LOG SUMMARY - FOR REFERENCE ONLY									
POINT	STATION	OFFSET	LAYER 1 HMA (IN)	LAYER 2 MATERIAL	LAYER 2 (INCHES)	LAYER 3 MATERIAL	LAYER 3 (THICKNESS)	LAYER 4 (THICKNESS)	LAYER 5 (THICKNESS)
B1	102+30	3' RT	6" ASPH.	BASE	5.0	SANDY CLAY, LIMESTONE FRAGMENTS	1.5-FT	SAND WITH GR, SILT 1.5-FT	SAND, WITH GR, TRACE SILT 2.0-FT
B2	377+39	17' RT	5" ASPH.	BASE	7.0	SANDY CLAY, LIMESTONE FRAGMENTS	1.0-FT	SAND, WITH SILT, TRACE GR, 2.0-FT	SAND, WITH GR, TRACE SILT 2.0-FT
B3	382+80	14' LT	1.5" ASPH.	BASE	11.5	SANDY CLAY, LIMESTONE FRAGMENTS	1.5-FT	SAND, TRACE GR, TRACE SILT, 6.0-FT	
B4	100+61	49' LT	9" CLAYEY SAND, TRACE GR	CLAYEY SAND, LIMESTONE FRAGMENTS	1.3	SAND, WITH GR, TRACE SILT	2.0-FT	SAND, TRACE GR, TRACE SILT, 6.0-FT	
B5	379+85	35' RT	7" CLAYEY SAND, TRACE GR	SANDY CLAY, LIMESTONE FRAGMENTS	1.4"	SAND, TRACE GR, TRACE SILT, 10.0-FT			

NOTES:

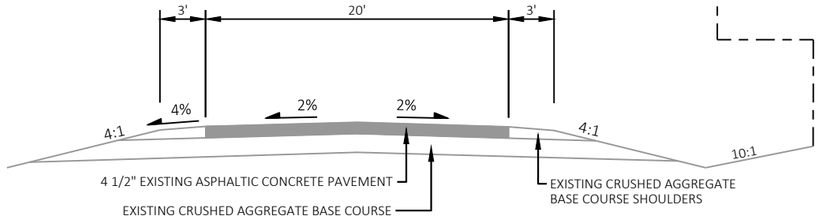
GR = GRAVEL

2



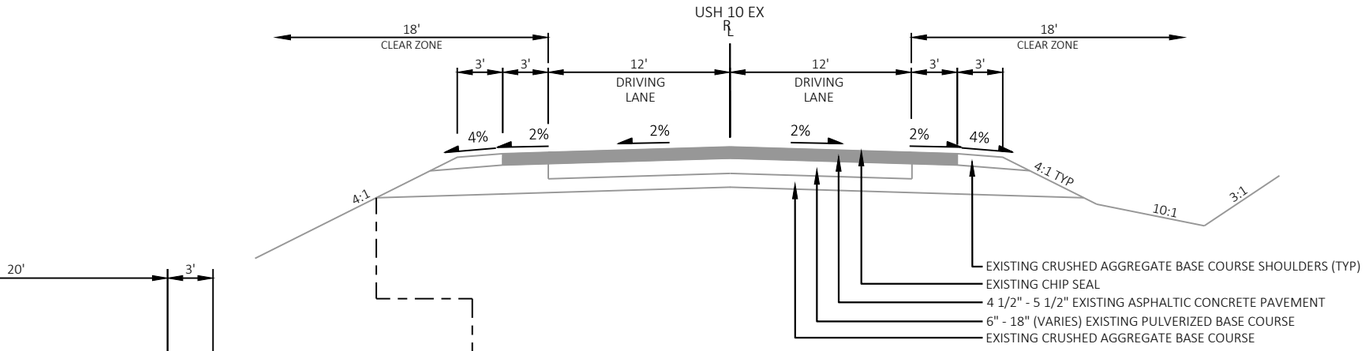
PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	PROJECT OVERVIEW	SHEET 4	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\020201-PO.DWG
LAYOUT NAME - 01
PLOT DATE : 7/31/2025 1:56 PM
PLOT BY : ED OCHS
PLOT NAME :
PLOT SCALE : 1 IN:250 FT
WISDOT/CADDS SHEET 44



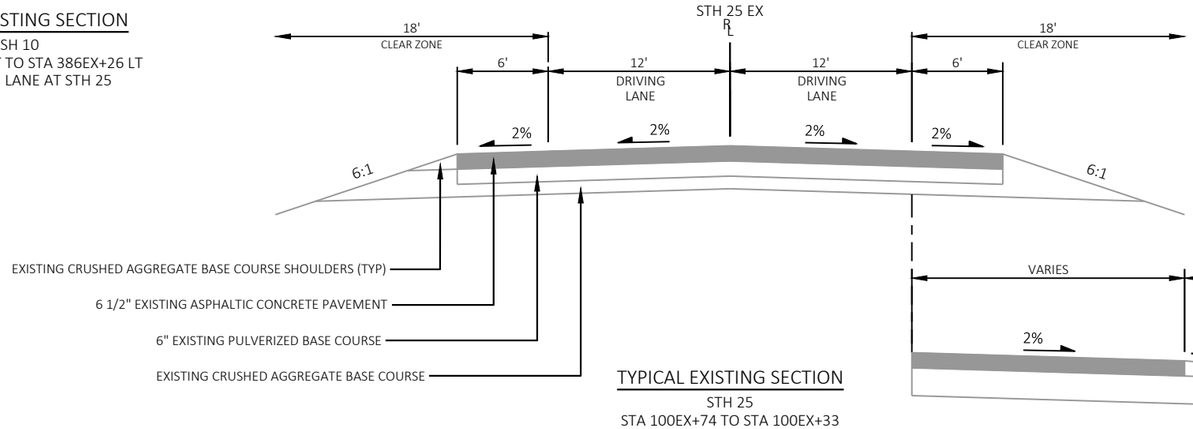
TYPICAL EXISTING SECTION

USH 10
STA 379EX+58 LT TO STA 386EX+26 LT
RIGHT TURN LANE AT STH 25



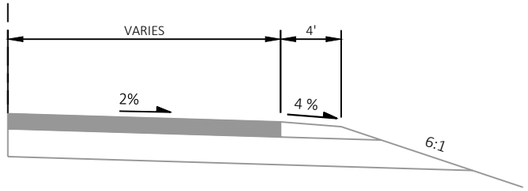
TYPICAL EXISTING SECTION

USH 10
STA 372EX+82 TO STA 375EX+82
STA 382EX+61 TO STA 389EX+60



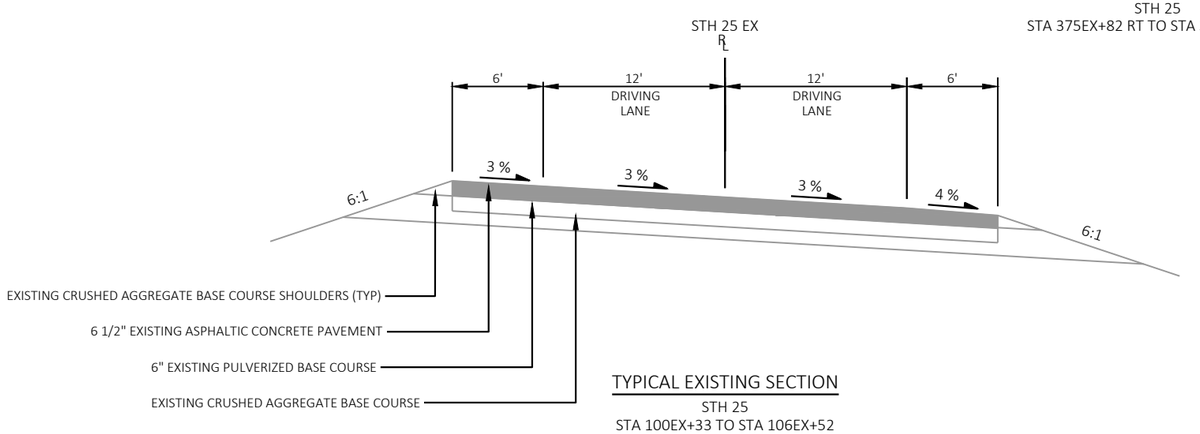
TYPICAL EXISTING SECTION

STH 25
STA 100EX+74 TO STA 100EX+33
STA 106EX+52 TO STA 107EX+13



TYPICAL EXISTING PARTIAL SECTION - RIGHT TURN LANE

STH 25
STA 375EX+82 RT TO STA 382EX+61 RT



TYPICAL EXISTING SECTION

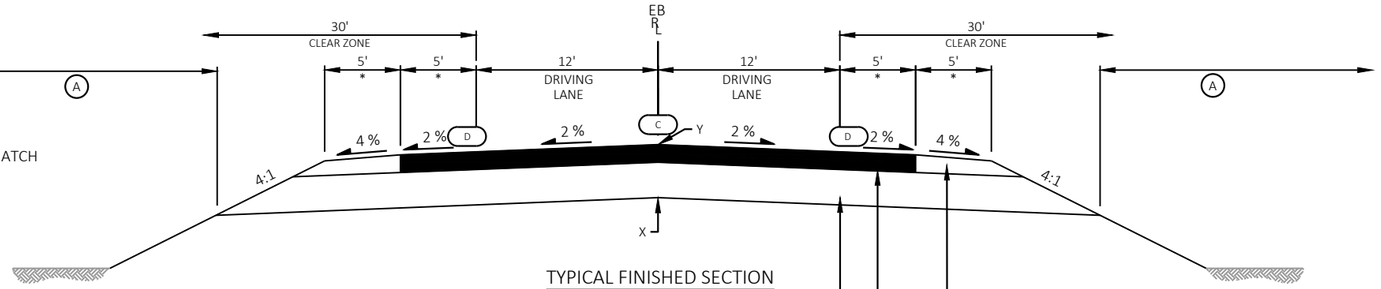
STH 25
STA 100EX+33 TO STA 106EX+52

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	TYPICAL SECTIONS	SHEET 5	E

2

NOTE:

* 80' TRANSITION REQUIRED TO MATCH EXISTING SHOULDER WIDTHS



TYPICAL FINISHED SECTION

USH 10
STA 372EB+82 TO STA 374EB+08
STA 387EB+49 TO SAT 389EB+67

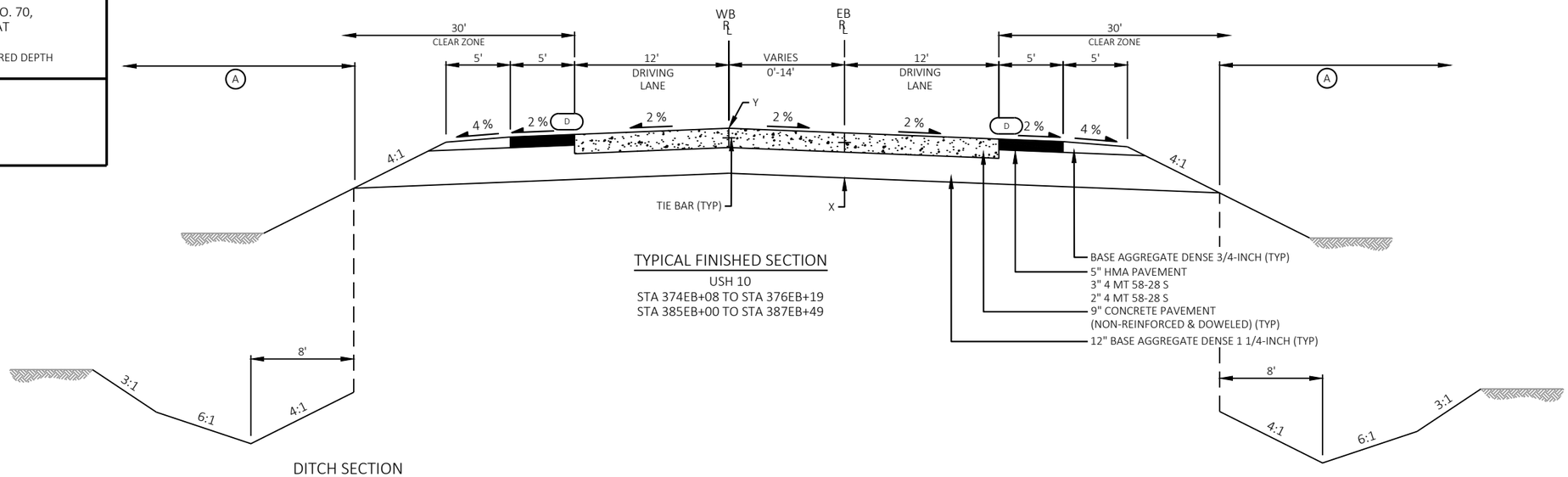
LEGEND

X	POINT REFERRED TO ON CROSS SECTIONS
Y	POINT REFERRED TO ON PROFILE
(A)	TOPSOIL*, SEED MIXTURE NO. 40, FERTILIZER B, AND EROSION MAT.
(B)	TOPSOIL*, SEEDING MIXTURE NO. 70, FERTILIZER TYPE B, EROSION MAT

*SEE STANDARD SPEC 625.3.3 FOR REQUIRED DEPTH

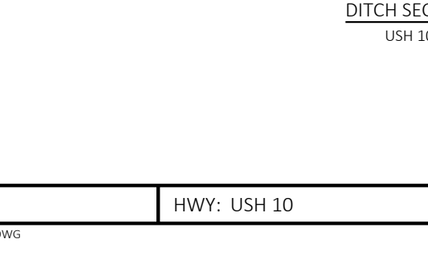
(C)	CENTERLINE RUMBLE STRIPS
(D)	SHOULDER RUMBLE STRIPS

SEE MQ SHEETS FOR EXACT LOCATIONS



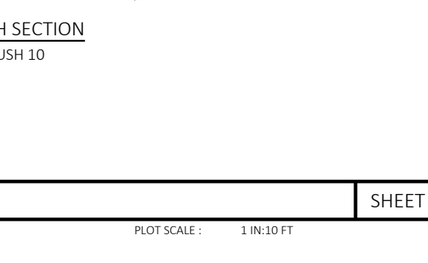
TYPICAL FINISHED SECTION

USH 10
STA 374EB+08 TO STA 376EB+19
STA 385EB+00 TO STA 387EB+49



DITCH SECTION

USH 10



DITCH SECTION

USH 10

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	TYPICAL SECTIONS	SHEET 6	E

2

LEGEND

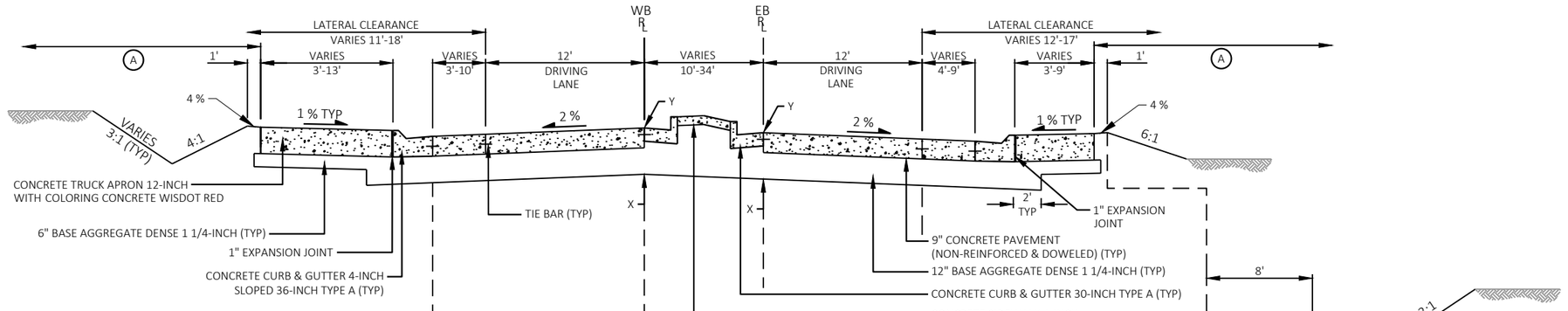
X POINT REFERRED TO ON CROSS SECTIONS

Y POINT REFERRED TO ON PROFILE

(A) TOPSOIL*, SEED MIXTURE NO. 40, FERTILIZER B, AND EROSION MAT.

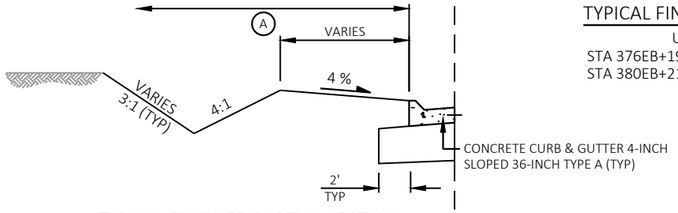
(B) TOPSOIL*, SEEDING MIXTURE NO. 70, FERTILIZER TYPE B, EROSION MAT

*SEE STANDARD SPEC 625.3.3 FOR REQUIRED DEPTH

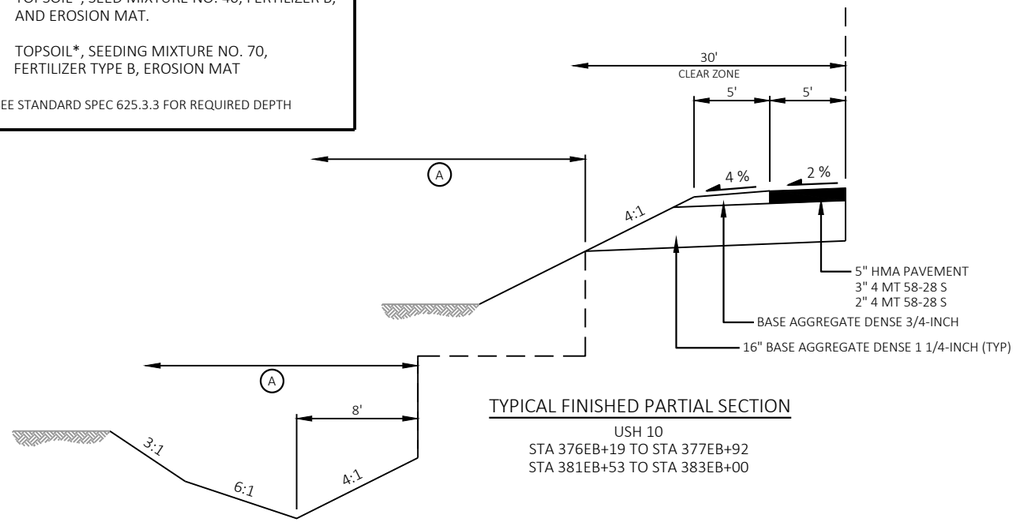


TYPICAL FINISHED SECTION
USH 10
STA 376EB+19 TO STA 378EB+67
STA 380EB+21 TO STA 383EB+02

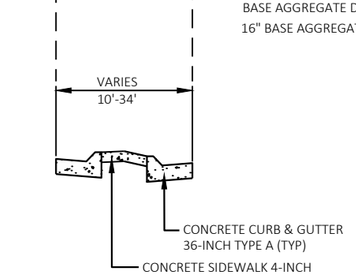
DITCH SECTION
USH 10



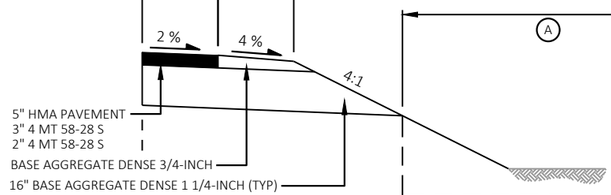
TYPICAL FINISHED PARTIAL SECTION
USH 10
STA 377EB+92 TO STA 378EB+06
STA 381EB+12 TO STA 381EB+53



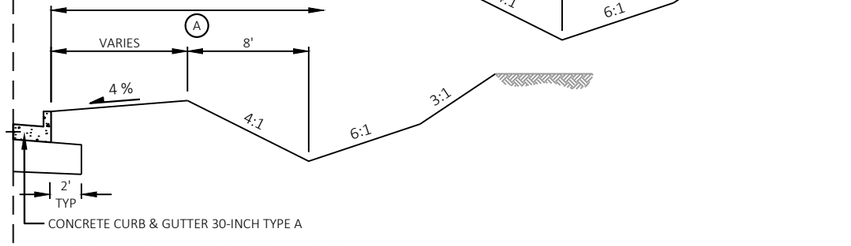
TYPICAL FINISHED PARTIAL SECTION
USH 10
STA 376EB+19 TO STA 377EB+92
STA 381EB+53 TO STA 383EB+00



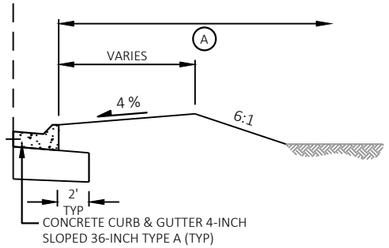
TYPICAL FINISHED PARTIAL SECTION
USH 10
STA 381EB+73 TO STA 385EB+00



TYPICAL FINISHED PARTIAL SECTION
USH 10
STA 376EB+23 TO STA 377EB+00
STA 380EB+19 TO STA 383EB+02



TYPICAL FINISHED PARTIAL SECTION
USH 10
STA 381EB+73 TO STA 385EB+00



TYPICAL FINISHED PARTIAL SECTION
USH 10
STA 377EB+41 TO STA 377EB+91

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	TYPICAL SECTIONS	SHEET 7	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\020301-TS.DWG
LAYOUT NAME - 03

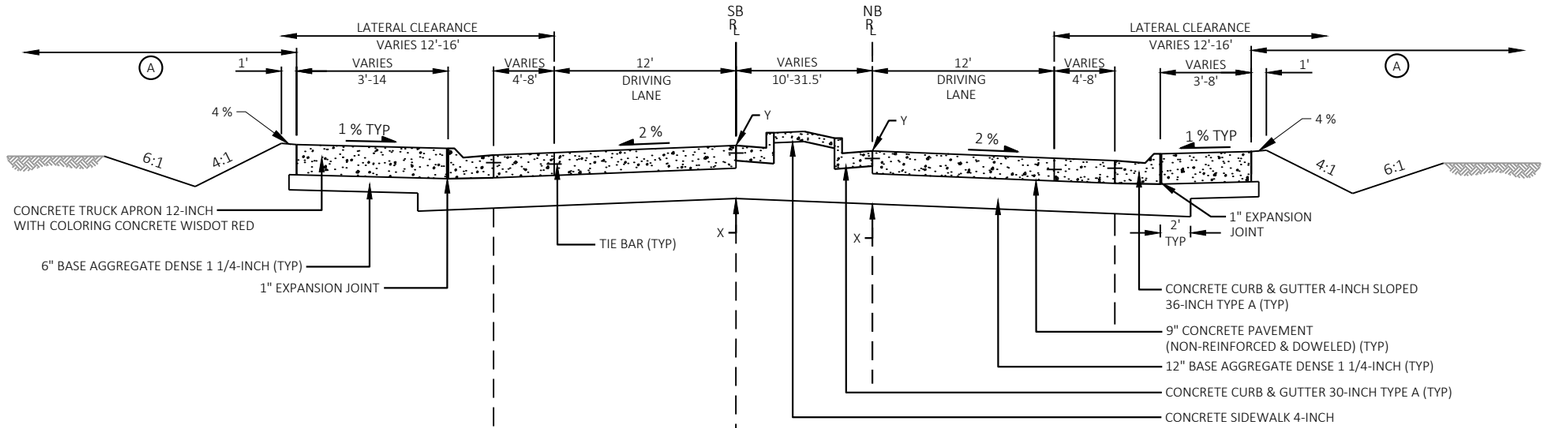
PLOT DATE : 7/31/2025 4:25 PM PLOT BY : ED OCHS PLOT NAME : PLOT SCALE : 1 IN:10 FT

2

LEGEND

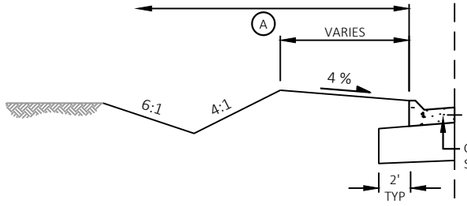
X	POINT REFERRED TO ON CROSS SECTIONS
Y	POINT REFERRED TO ON PROFILE
(A)	TOPSOIL*, SEED MIXTURE NO. 40, FERTILIZER B, AND EROSION MAT.
(B)	TOPSOIL*, SEEDING MIXTURE NO. 70, FERTILIZER TYPE B, EROSION MAT

*SEE STANDARD SPEC 625.3.3 FOR REQUIRED DEPTH



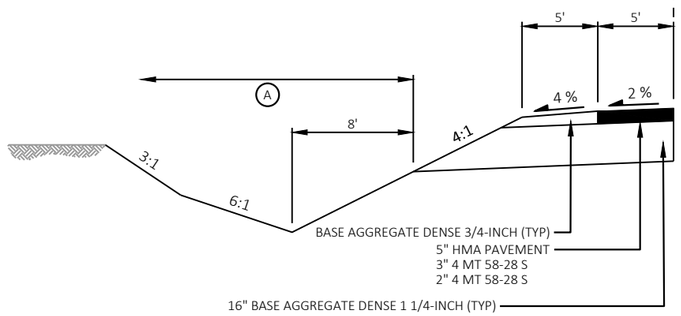
TYPICAL FINISHED SECTION

STH 25/SOUTH APPROACH
STA 98SB+87 TO STA 99SB+42
STA 100SB+87 TO STA 103SB+40



TYPICAL FINISHED PARTIAL SECTION

STH 25/SOUTH APPROACH
STA 99SB+42 TO STA 99SB+87
STA 101SB+59 TO STA 102SB+16

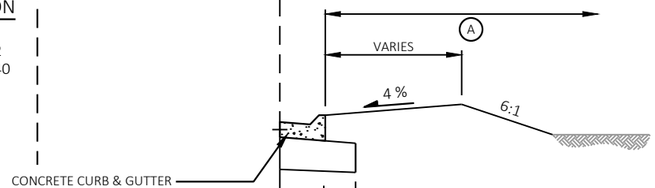


TYPICAL FINISHED PARTIAL SECTION

STH 25
STA 102SB+16 TO STA 103SB+40

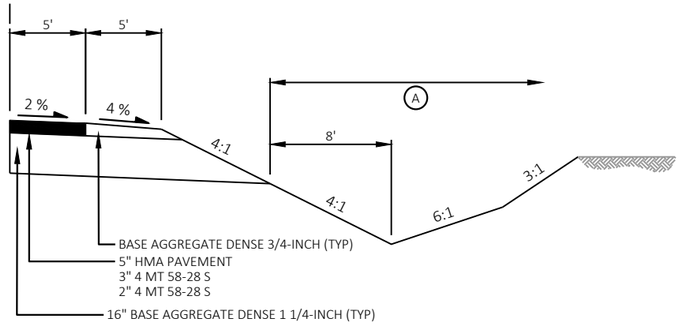
TYPICAL FINISHED SECTION

USH 10
STA 102+40SB TO STA 103SB+40



TYPICAL FINISHED PARTIAL SECTION

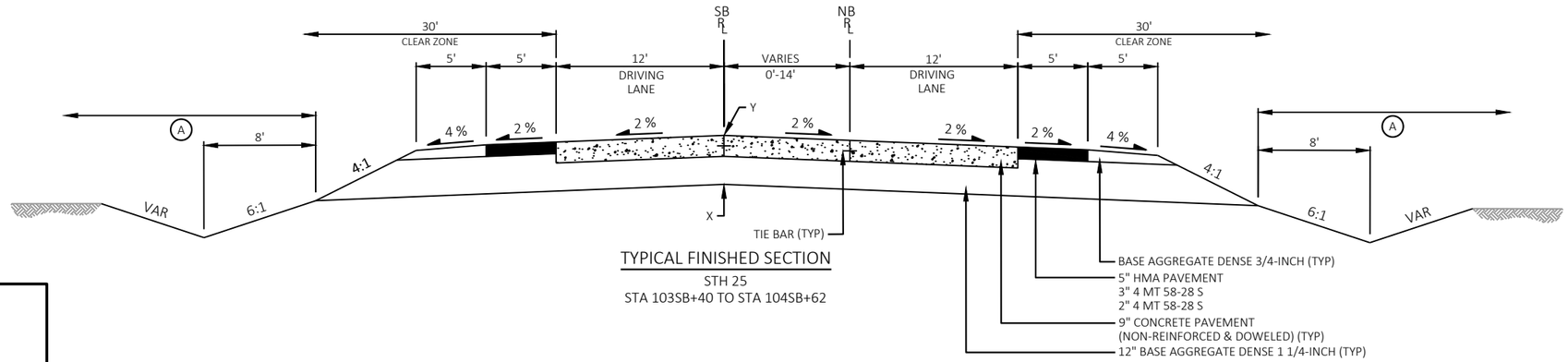
STH 25/SOUTH APPROACH
STA 98SB+87 TO STA 98SB+92
STA 101SB+49 TO STA 101SB+69



TYPICAL FINISHED PARTIAL SECTION

STH 25
STA 101SB+69 TO STA 103SB+40

2



TYPICAL FINISHED SECTION

STH 25

STA 103SB+40 TO STA 104SB+62

LEGEND

X POINT REFERRED TO ON CROSS SECTIONS

Y POINT REFERRED TO ON PROFILE

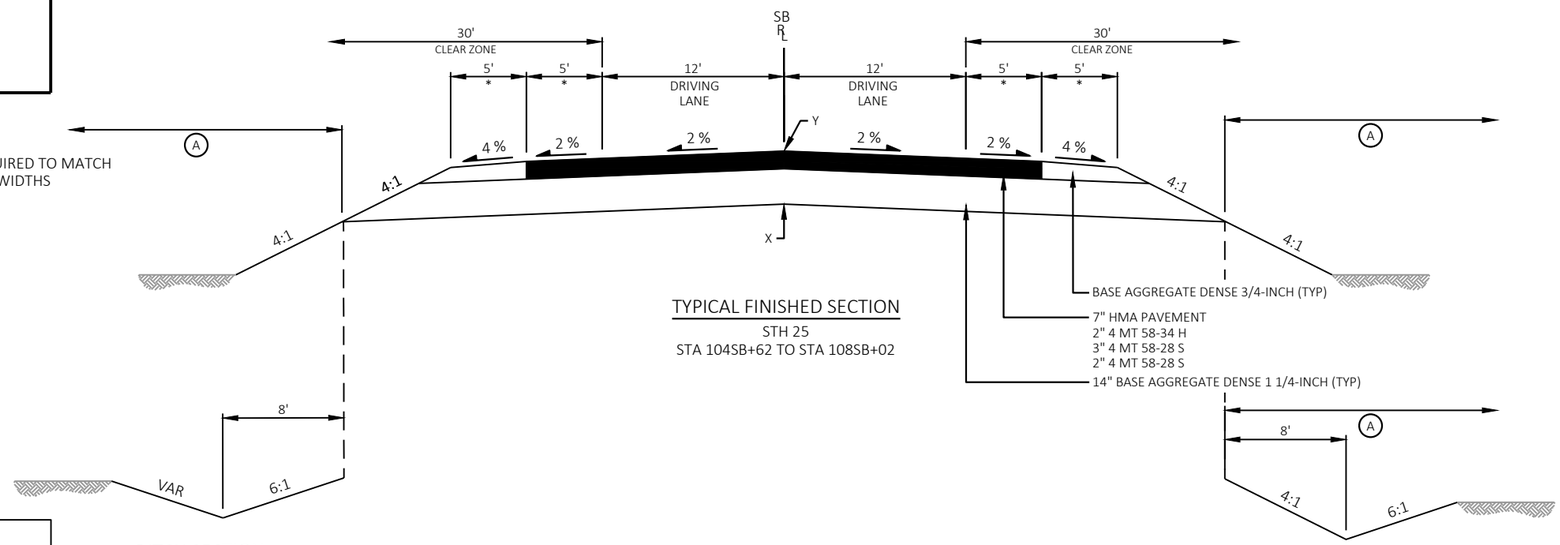
(A) TOPSOIL*, SEED MIXTURE NO. 40, FERTILIZER B, AND EROSION MAT.

(B) TOPSOIL*, SEEDING MIXTURE NO. 70, FERTILIZER TYPE B, EROSION MAT

*SEE STANDARD SPEC 625.3.3 FOR REQUIRED DEPTH

NOTE:

* 80' TRANSITION REQUIRED TO MATCH EXISTING SHOULDER WIDTHS



DITCH SECTION

STH 25

TYPICAL FINISHED SECTION

STH 25

STA 104SB+62 TO STA 108SB+02

DITCH SECTION

STH 25

LEGEND

X POINT REFERRED TO ON CROSS SECTIONS

Y POINT REFERRED TO ON PROFILE

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	TYPICAL SECTIONS	SHEET 9	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\020301-TS.DWG
LAYOUT NAME - 05

PLOT DATE : 7/31/2025 4:25 PM PLOT BY : ED OCHS PLOT NAME : PLOT SCALE : 1 IN:10 FT

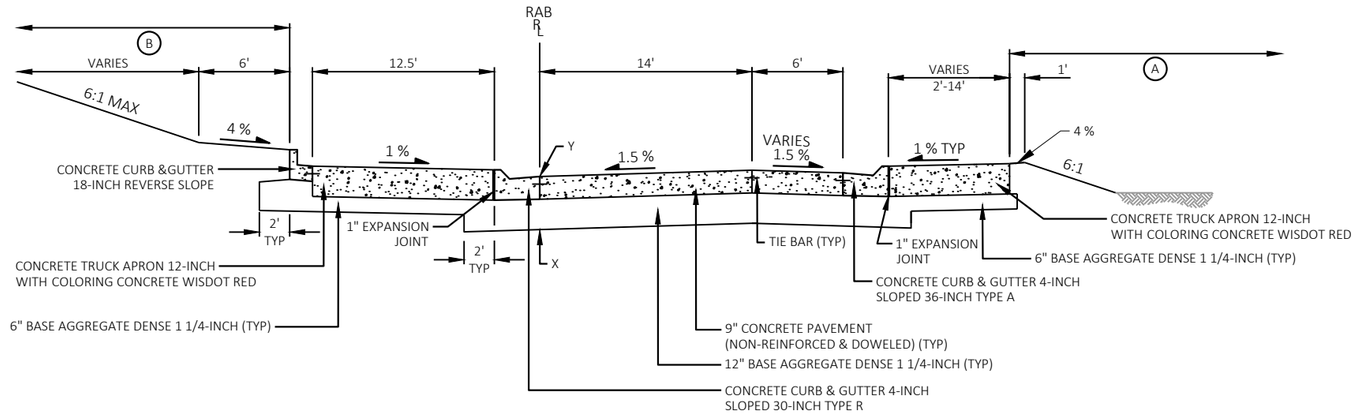
WISDOT/CADDS SHEET 42

2

LEGEND

X	POINT REFERRED TO ON CROSS SECTIONS
Y	POINT REFERRED TO ON PROFILE
(A)	TOPSOIL*, SEED MIXTURE NO. 40, FERTILIZER B, AND EROSION MAT.
(B)	TOPSOIL*, SEEDING MIXTURE NO. 70, FERTILIZER TYPE B, EROSION MAT

*SEE STANDARD SPEC 625.3.3 FOR REQUIRED DEPTH

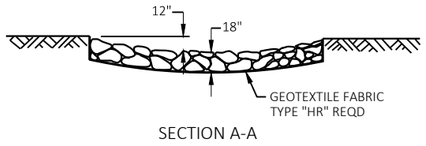


TYPICAL FINISHED SECTION

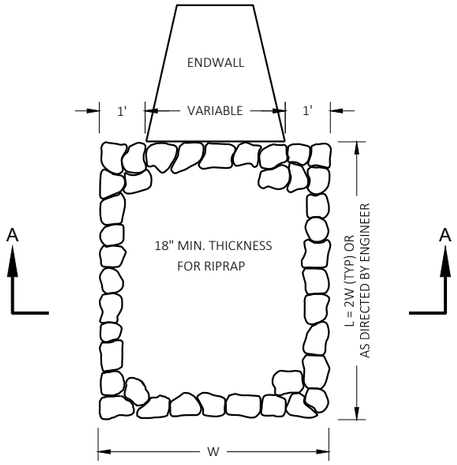
USH 10 / STH 25 ROUNDABOUT
STA 10+00 RAB TO STA 13+31.01 RAB

LEGEND

X	POINT REFERRED TO ON CROSS SECTIONS
Y	POINT REFERRED TO ON PROFILE

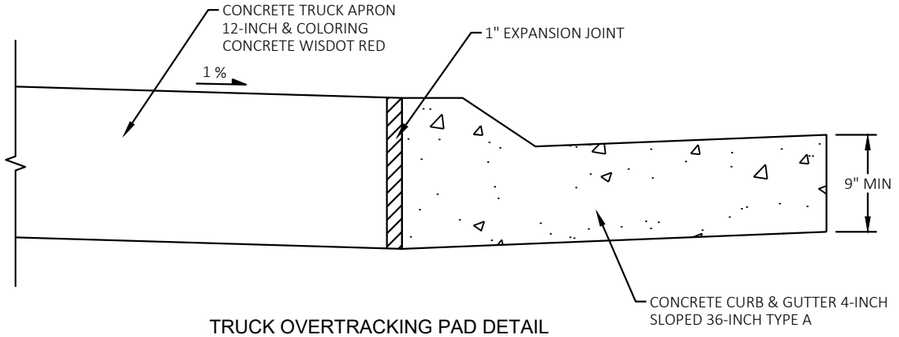


SECTION A-A

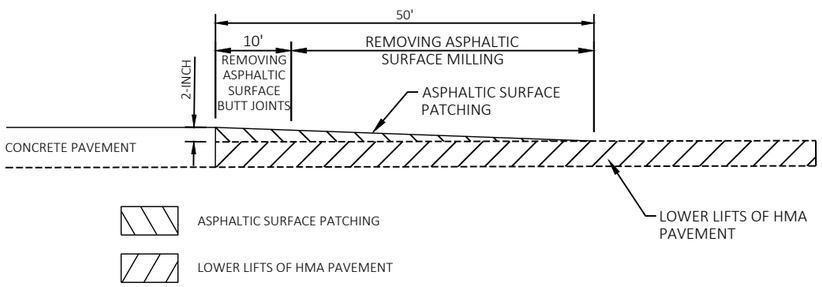


MEDIUM RIPRAP TREATMENT AT CULVERTS

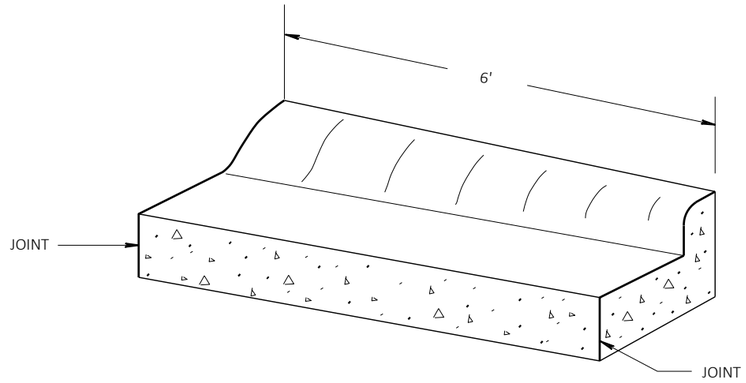
NOTE: PLACE 6" BASE AGGREGATE DENSE 1 1/4-INCH
UNDER CONCRETE TRUCK APRON 12-INCH AND
EXTEND TWO-FOOT BEYOND EDGE OF CONCRETE



TRUCK OVERTRACKING PAD DETAIL

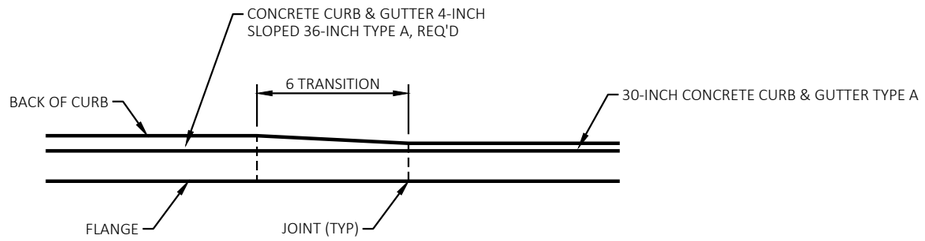


ASPHALTIC SURFACE TEMPORARY WEDGE



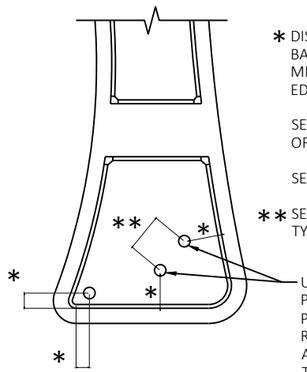
TRANSITION DETAIL

CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A TO CONCRETE CURB & GUTTER 30-INCH TYPE A (TO BE MEASURED AND PAID FOR AS CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A) REFER TO INTERSECTION DETAILS FOR CURB TRANSITION AREAS



PLAN VIEW

2



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

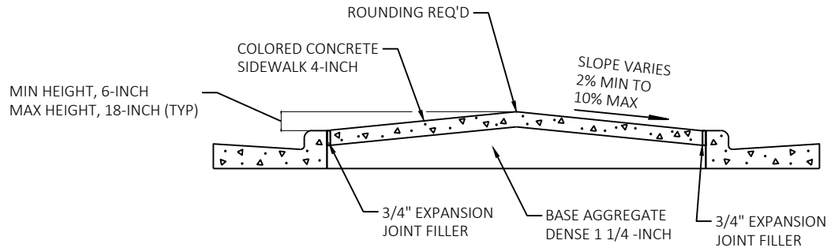
SEE A4-3 SIGN PLATE FOR "TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POST"

SEE A4-3B SIGN PLATE "SIGN POST BOX-OUTS"

** SEE A4-4 SIGN PLATE "TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE SUPPORTS"

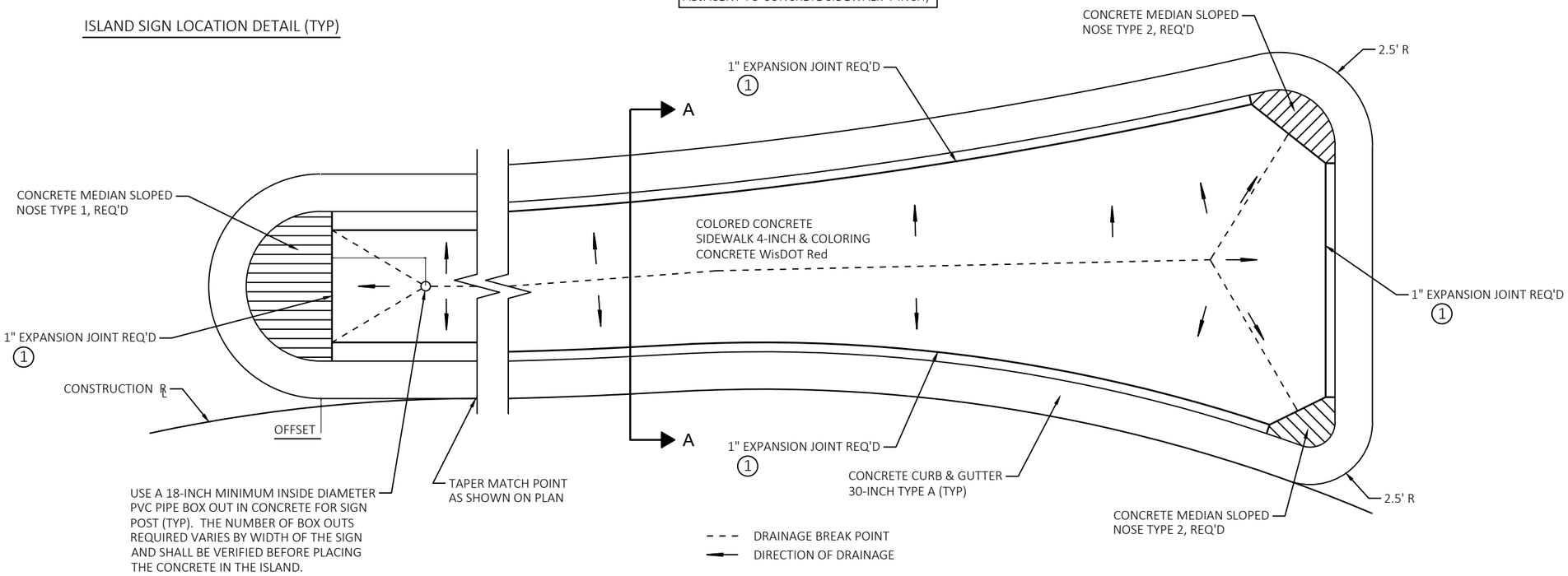
USE A 18-INCH MINIMUM INSIDE DIAMETER PVC PIPE BOX OUT IN CONCRETE FOR SIGN POST (TYP). THE NUMBER OF BOX OUTS REQUIRED VARIES BY WIDTH OF THE SIGN AND SHALL BE VERIFIED BEFORE PLACING THE CONCRETE IN THE ISLAND.

ISLAND SIGN LOCATION DETAIL (TYP)



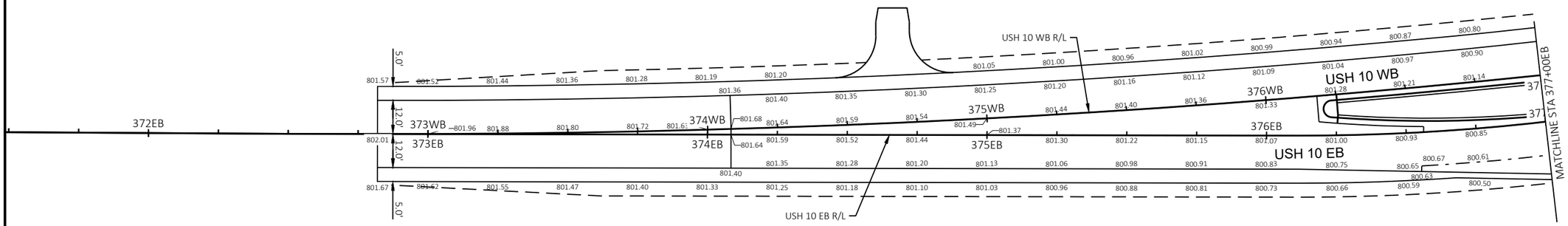
SECTION A-A

① EXPANSION MATERIAL TO BE 1" LONGER THAN ABUTTING MEDIAN CONCRETE THICKNESS. (i.e. 5" IN HEIGHT WHEN ADJACENT TO CONCRETE SIDEWALK 4-INCH)



CONCRETE SPLITTER ISLAND DETAIL WITHOUT CROSSWALK

2

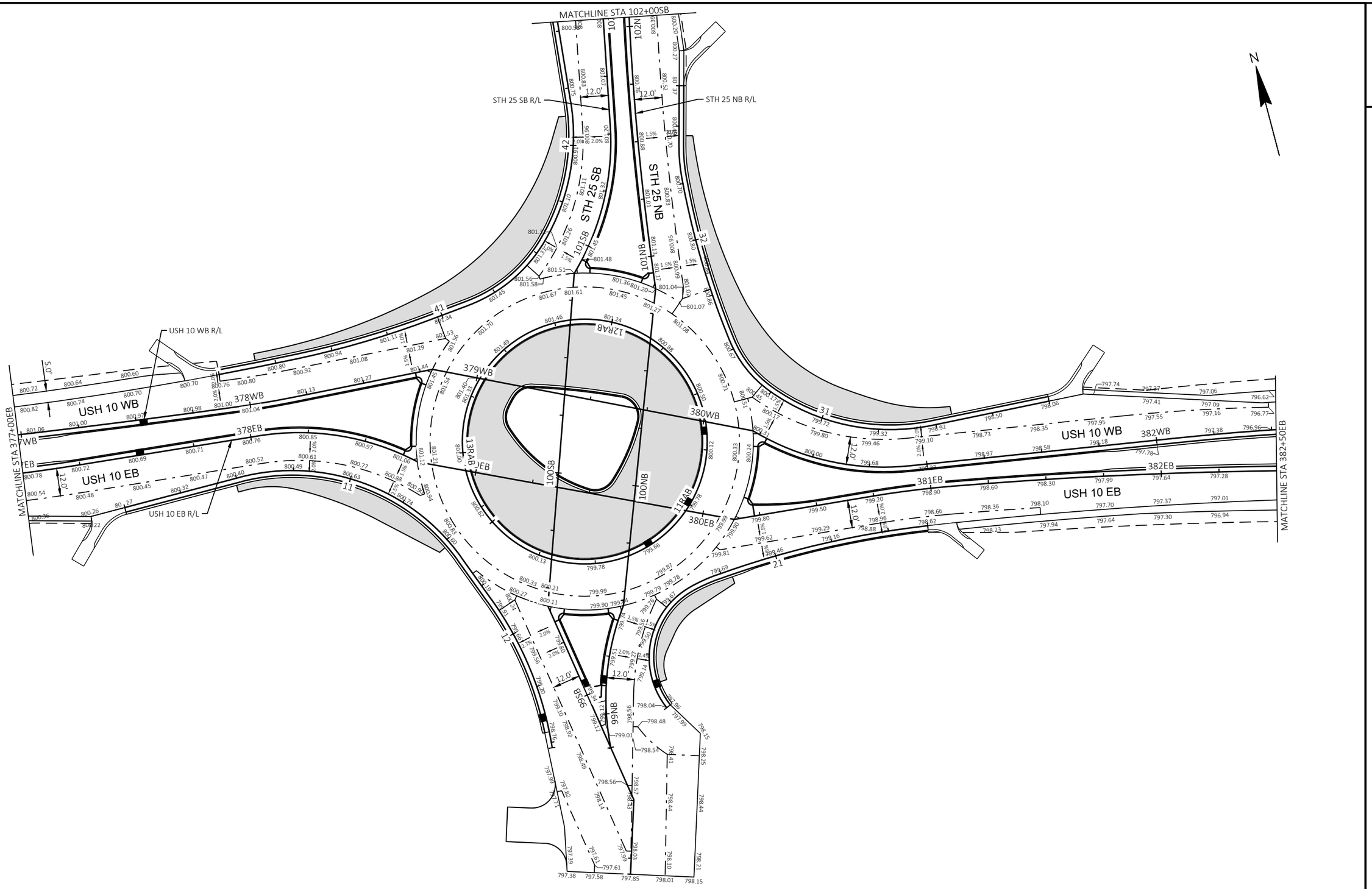


PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	PAVING DETAILS	SHEET 13	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\021201-PD.DWG
LAYOUT NAME - 01

PLOT DATE : 8/1/2025 10:25 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	PAVING DETAILS	SHEET 14	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\021201-PD.DWG
LAYOUT NAME - 02

PLOT DATE : 8/1/2025 9:16 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

MATCHLINE STA 382+50EB

383WB

383EB

384WB

384EB

385WB

385EB

386WB

386EB

387WB

387EB

388WB

388EB

USH 10 WB

USH 10 EB

USH 10 WB R/L

USH 10 EB R/L

USH 10 EB R/L

5.0'

12.0'

12.0'

5.0'

MATCHLINE STA 388+00EB

N

MATCHLINE STA 388+00EB

WB

EB

USH 10 WB

USH 10 EB

3 389EB

3 390EB

USH 10 EB R/L

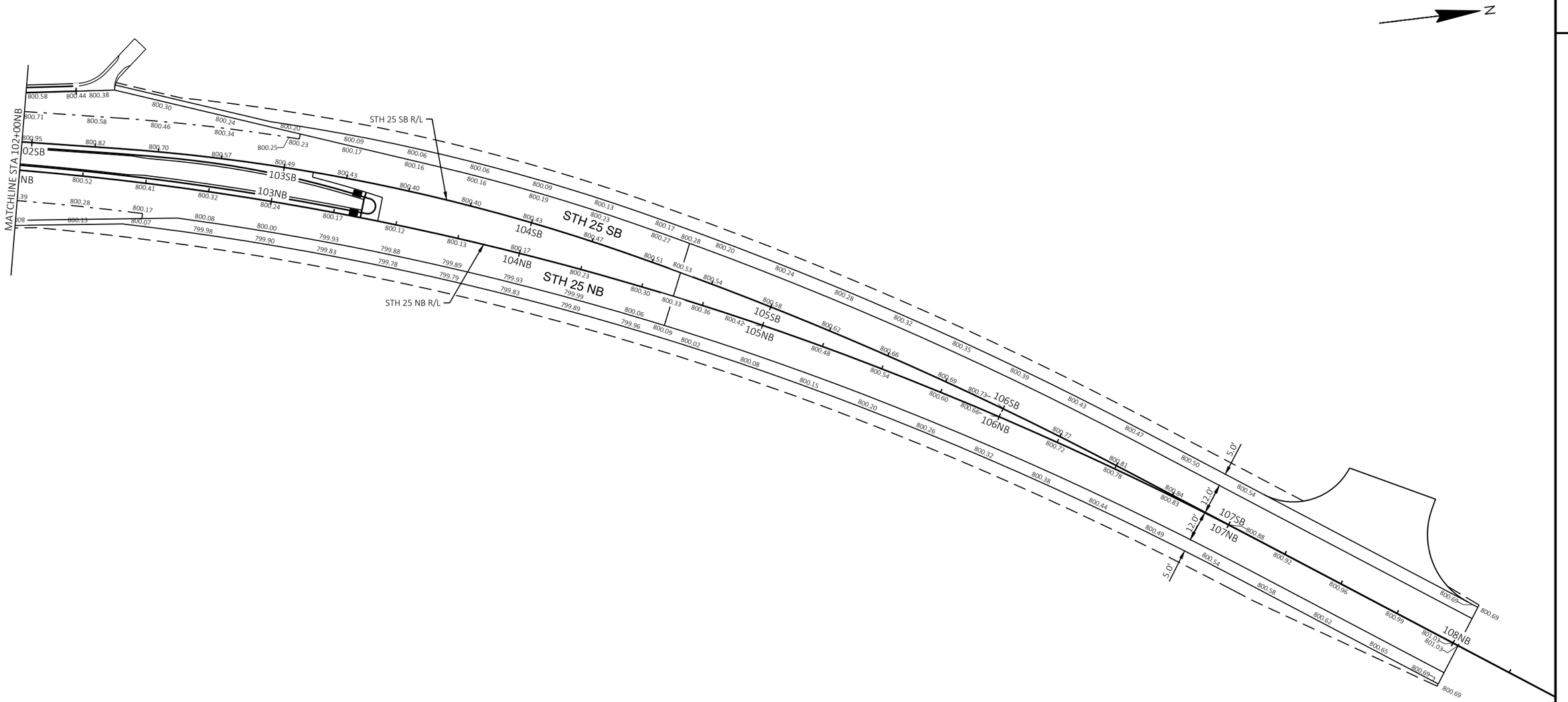
PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	PAVING DETAILS	SHEET 15	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\021201-PD.DWG
LAYOUT NAME - 03

PLOT DATE : 8/1/2025 9:16 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

2



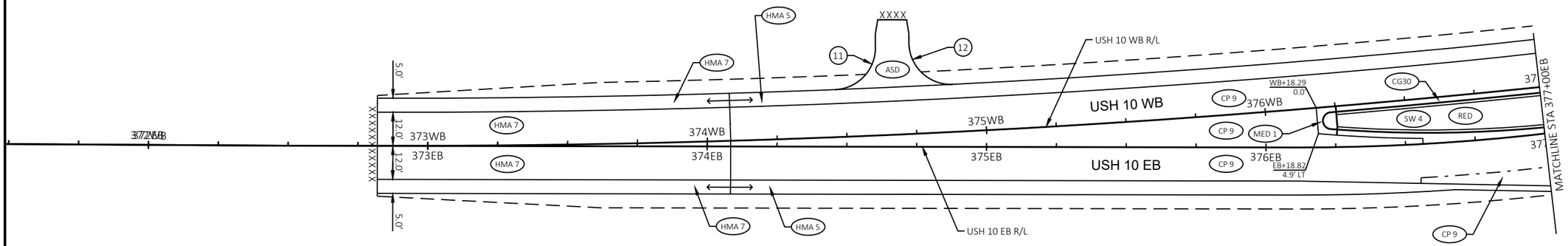
PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	PAVING DETAILS	SHEET 16	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\021201-PD.DWG
LAYOUT NAME - 04

PLOT DATE : 8/1/2025 9:16 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

STATION AND OFFSET TABLE				
POINT NO.	ALIGNMENT	STATION	OFFSET (FT)	RADIUS
11	WB LINE	374+46.52	31.8 LT	15.0'
12	WB LINE	374+93.55	30.0 LT	15.0'



LEGEND

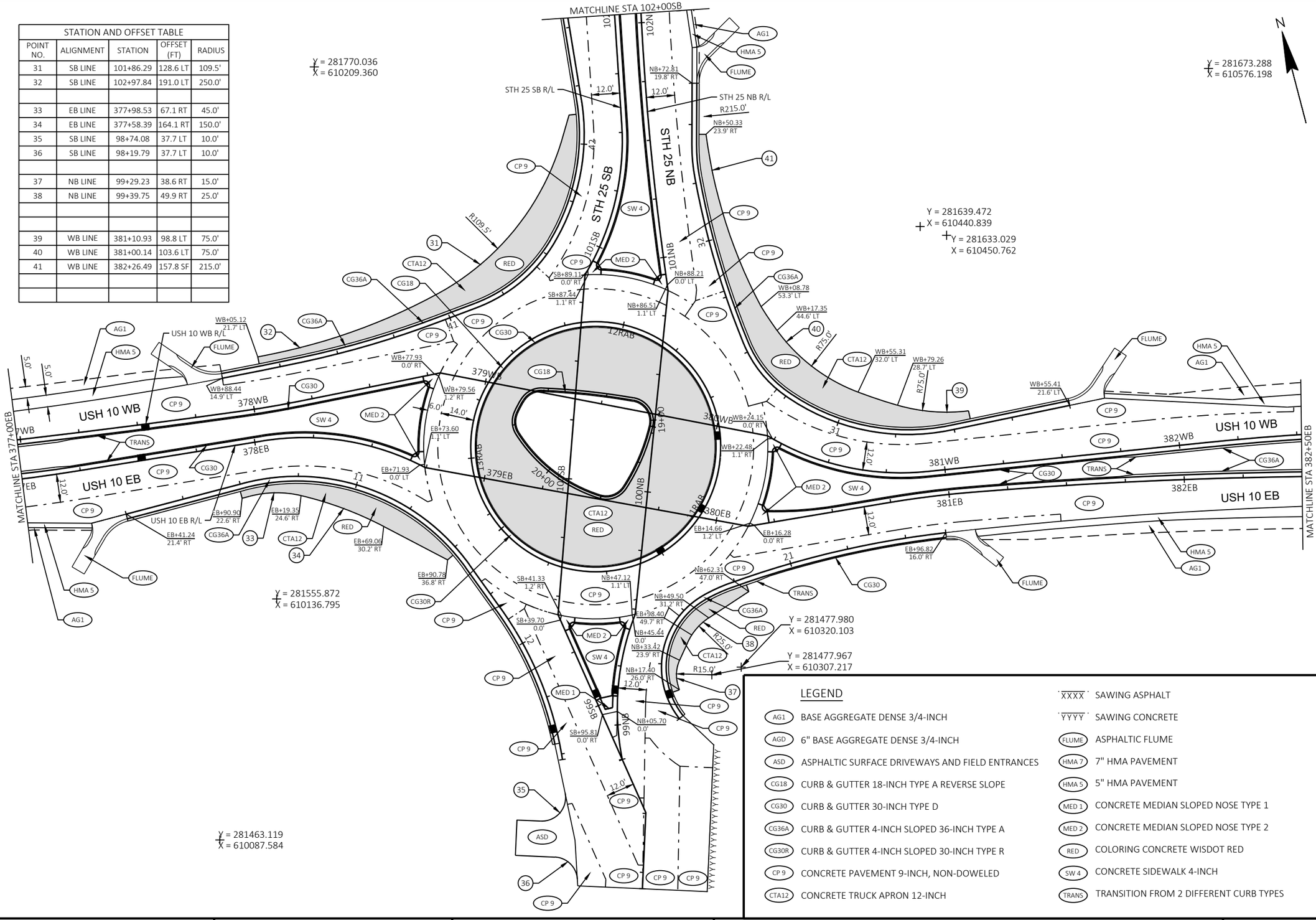
AG1	BASE AGGREGATE DENSE 3/4-INCH
AGD	6" BASE AGGREGATE DENSE 3/4-INCH
ASD	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
CG18	CURB & GUTTER 18-INCH TYPE A REVERSE SLOPE
CG30	CURB & GUTTER 30-INCH TYPE D
CG36A	CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
CG30R	CURB & GUTTER 4-INCH SLOPED 30-INCH TYPE R
CP 9	CONCRETE PAVEMENT 9-INCH, NON-DOWELED
CTA12	CONCRETE TRUCK APRON 12-INCH
XXXX	SAWING ASPHALT
YYYY	SAWING CONCRETE
FLUME	ASPHALTIC FLUME
HMA 7	7" HMA PAVEMENT
HMA 5	5" HMA PAVEMENT
MED 1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
MED 2	CONCRETE MEDIAN SLOPED NOSE TYPE 2
RED	COLORING CONCRETE WISDOT RED
SW 4	CONCRETE SIDEWALK 4-INCH
TRANS	TRANSITION FROM 2 DIFFERENT CURB TYPES

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	PLAN DETAILS	SHEET 17	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\021202-PD.DWG
LAYOUT NAME - 01

PLOT DATE : 8/1/2025 10:28 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:40 FT

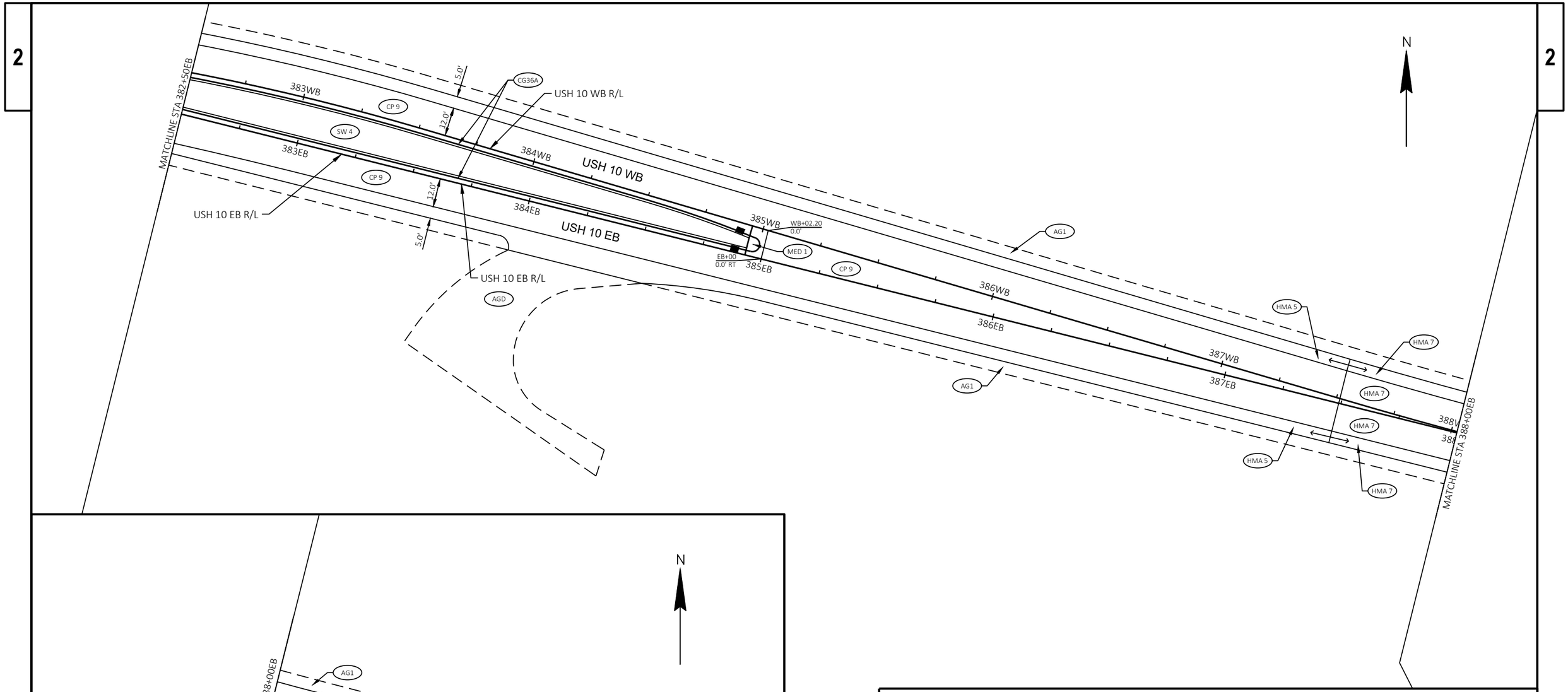
STATION AND OFFSET TABLE				
POINT NO.	ALIGNMENT	STATION	OFFSET (FT)	RADIUS
31	SB LINE	101+86.29	128.6 LT	109.5'
32	SB LINE	102+97.84	191.0 LT	250.0'
33	EB LINE	377+98.53	67.1 RT	45.0'
34	EB LINE	377+58.39	164.1 RT	150.0'
35	SB LINE	98+74.08	37.7 LT	10.0'
36	SB LINE	98+19.79	37.7 LT	10.0'
37	NB LINE	99+29.23	38.6 RT	15.0'
38	NB LINE	99+39.75	49.9 RT	25.0'
39	WB LINE	381+10.93	98.8 LT	75.0'
40	WB LINE	381+00.14	103.6 LT	75.0'
41	WB LINE	382+26.49	157.8 SF	215.0'

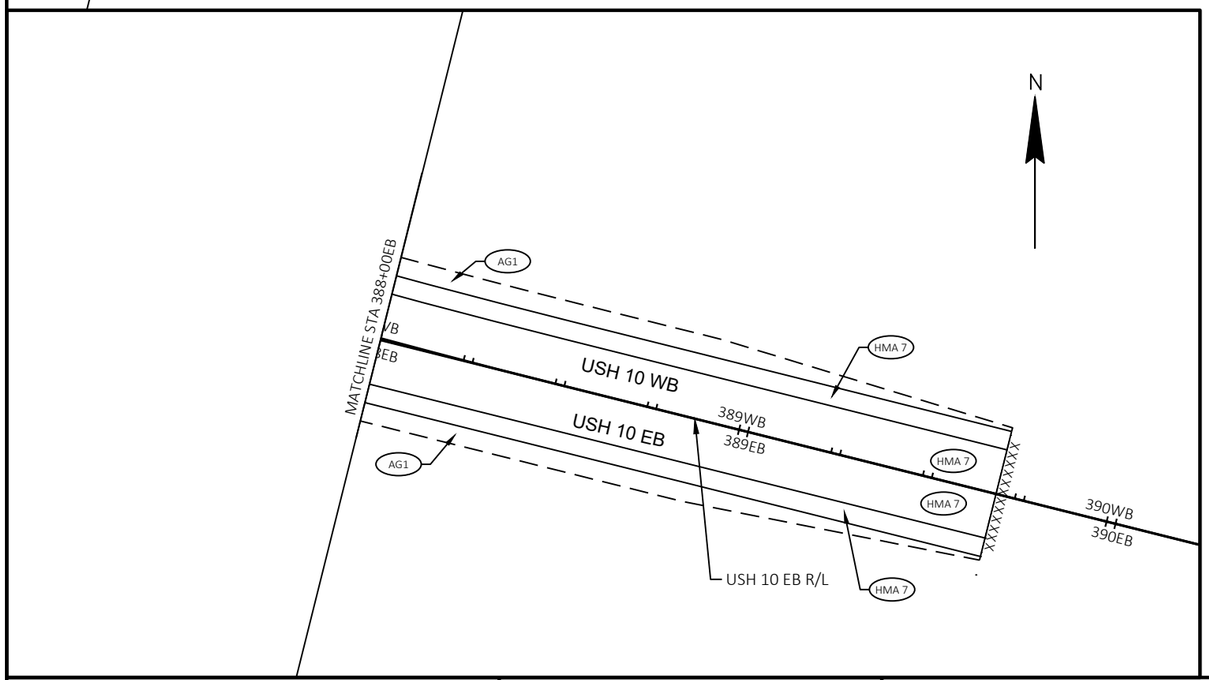


LEGEND

AG1	BASE AGGREGATE DENSE 3/4-INCH	XXXX	SAWING ASPHALT
AGD	6" BASE AGGREGATE DENSE 3/4-INCH	YYYY	SAWING CONCRETE
ASD	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	FLUME	ASPHALTIC FLUME
CG18	CURB & GUTTER 18-INCH TYPE A REVERSE SLOPE	HMA 7	7" HMA PAVEMENT
CG30	CURB & GUTTER 30-INCH TYPE D	HMA 5	5" HMA PAVEMENT
CG36A	CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A	MED 1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CG30R	CURB & GUTTER 4-INCH SLOPED 30-INCH TYPE R	MED 2	CONCRETE MEDIAN SLOPED NOSE TYPE 2
CP 9	CONCRETE PAVEMENT 9-INCH, NON-DOWELED	RED	COLORING CONCRETE WISDOT RED
CTA12	CONCRETE TRUCK APRON 12-INCH	SW 4	CONCRETE SIDEWALK 4-INCH
		TRANS	TRANSITION FROM 2 DIFFERENT CURB TYPES

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	PLAN DETAILS	SHEET 18	E



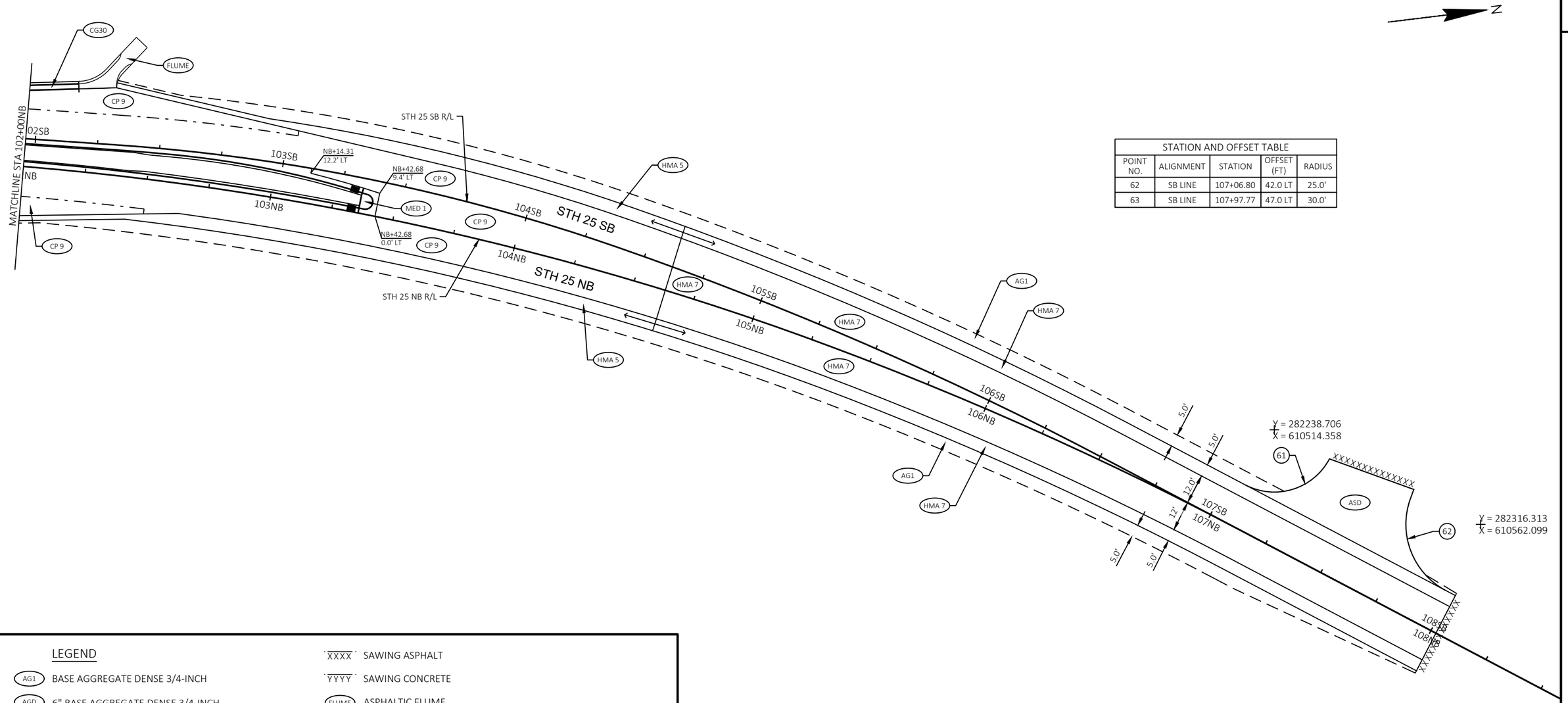


LEGEND

AG1	BASE AGGREGATE DENSE 3/4-INCH	XXXX	SAWING ASPHALT
AGD	6" BASE AGGREGATE DENSE 3/4-INCH	YYYY	SAWING CONCRETE
ASD	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	FLUME	ASPHALTIC FLUME
CG18	CURB & GUTTER 18-INCH TYPE A REVERSE SLOPE	HMA 7	7" HMA PAVEMENT
CG30	CURB & GUTTER 30-INCH TYPE D	HMA 5	5" HMA PAVEMENT
CG36A	CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A	MED 1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CG30R	CURB & GUTTER 4-INCH SLOPED 30-INCH TYPE R	MED 2	CONCRETE MEDIAN SLOPED NOSE TYPE 2
CP 9	CONCRETE PAVEMENT 9-INCH, NON-DOWELED	RED	COLORING CONCRETE WISDOT RED
CTA12	CONCRETE TRUCK APRON 12-INCH	SW 4	CONCRETE SIDEWALK 4-INCH
		TRANS	TRANSITION FROM 2 DIFFERENT CURB TYPES

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	PLAN DETAILS	SHEET 19	E

2



STATION AND OFFSET TABLE				
POINT NO.	ALIGNMENT	STATION	OFFSET (FT)	RADIUS
62	SB LINE	107+06.80	42.0 LT	25.0'
63	SB LINE	107+97.77	47.0 LT	30.0'

LEGEND

AG1	BASE AGGREGATE DENSE 3/4-INCH
AGD	6" BASE AGGREGATE DENSE 3/4-INCH
ASD	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
CG18	CURB & GUTTER 18-INCH TYPE A REVERSE SLOPE
CG30	CURB & GUTTER 30-INCH TYPE D
CG36A	CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
CG30R	CURB & GUTTER 4-INCH SLOPED 30-INCH TYPE R
CP 9	CONCRETE PAVEMENT 9-INCH, NON-DOWELED
CTA12	CONCRETE TRUCK APRON 12-INCH
XXXX	SAWING ASPHALT
YYYY	SAWING CONCRETE
FLUME	ASPHALTIC FLUME
HMA 7	7" HMA PAVEMENT
HMA 5	5" HMA PAVEMENT
MED 1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
MED 2	CONCRETE MEDIAN SLOPED NOSE TYPE 2
RED	COLORING CONCRETE WISDOT RED
SW 4	CONCRETE SIDEWALK 4-INCH
TRANS	TRANSITION FROM 2 DIFFERENT CURB TYPES

2

BEGIN PROJECT
STA 371+92 EX
Y= 281,728.797
X= 609,638.539

S KIRK RD

EXISTING R/W (TYP)

368EB | 370EX | 371EX | USH 10 WB | 372EX | 373EX | 374EX | 375

USH 10 EB

MATCHLINE STA 375+00 EX

TEMPORARY ASPHALT WIDENING

EXISTING R/W (TYP)

LEGEND

- EROSION MAT URBAN CLASS I TYPE B, FERTILIZER TYPE A WITH SEEDING MIX NO. 40
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- FLOW DIRECTION
- SLOPE INTERCEPT
- SILT FENCE
- RIPRAP MEDIUM

NOTE: INSTALL SILT FENCE AS SHOWN ON FINAL EROSION PLAN.

PROPOSED R/W

EXISTING R/W (TYP)

MATCHLINE STA 101+00 EX

STH 25

MATCHLINE STA 375+00 EX

376EX | 377EX | USH 10 WB | 378EX | 379EX | 380EX | 381EX | 382

USH 10 EB

TEMPORARY ASPHALT WIDENING

EXISTING R/W (TYP)

T.L.E.
PROPOSED R/W

T.L.E.
PROPOSED R/W

TEMPORARY ASPHALT WIDENING

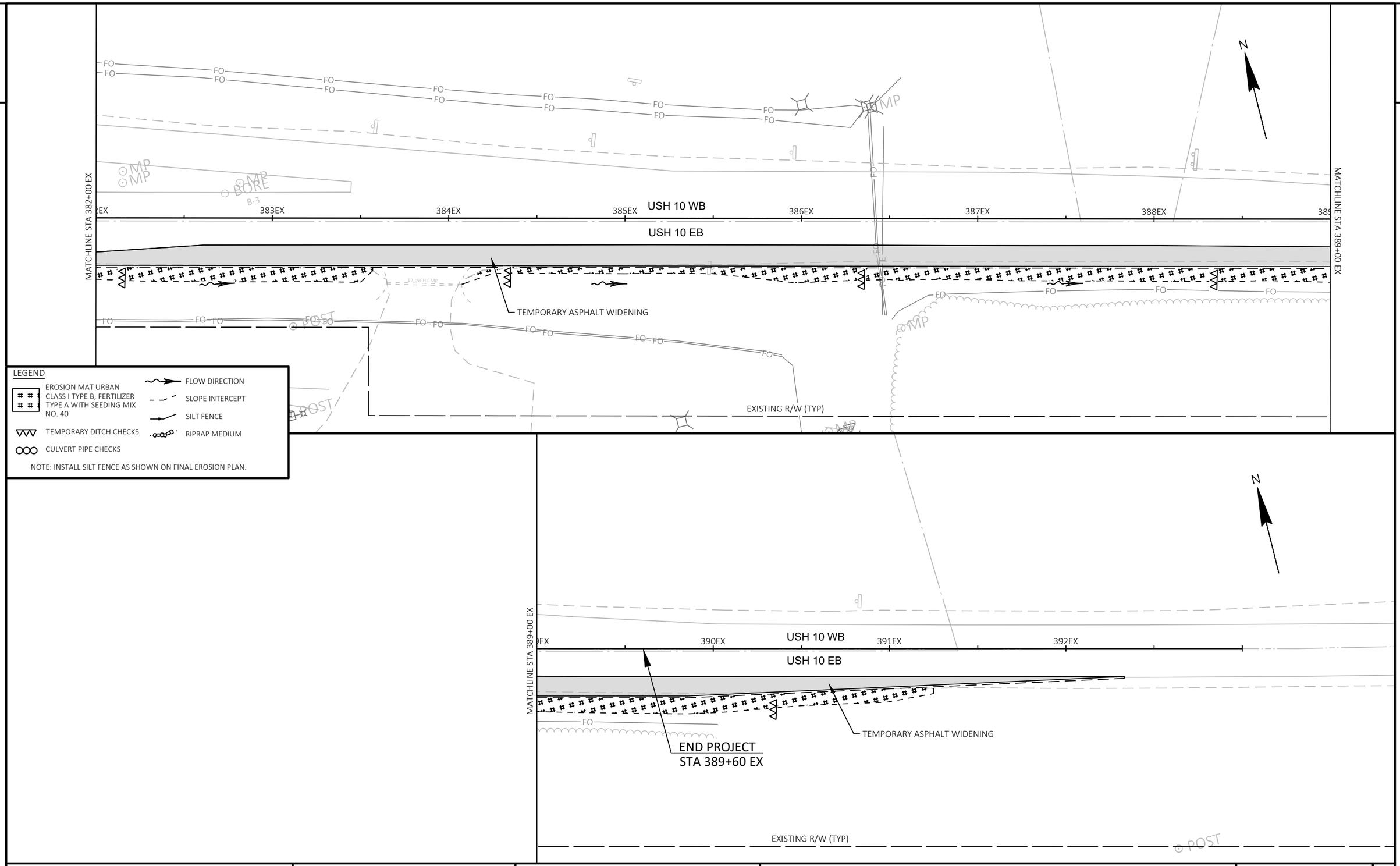
MATCHLINE STA 382+00 EX

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	EROSION CONTROL - STAGE 1	SHEET 21	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\022000-EC_ STAGE 1.DWG
LAYOUT NAME - 01

PLOT DATE : 8/1/2025 6:19 AM | PLOT BY : CORY IHDE | PLOT NAME : | PLOT SCALE : 1 IN:50 FT

2



LEGEND

- EROSION MAT URBAN CLASS I TYPE B, FERTILIZER TYPE A WITH SEEDING MIX NO. 40
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- FLOW DIRECTION
- SLOPE INTERCEPT
- SILT FENCE
- RIPRAP MEDIUM

NOTE: INSTALL SILT FENCE AS SHOWN ON FINAL EROSION PLAN.

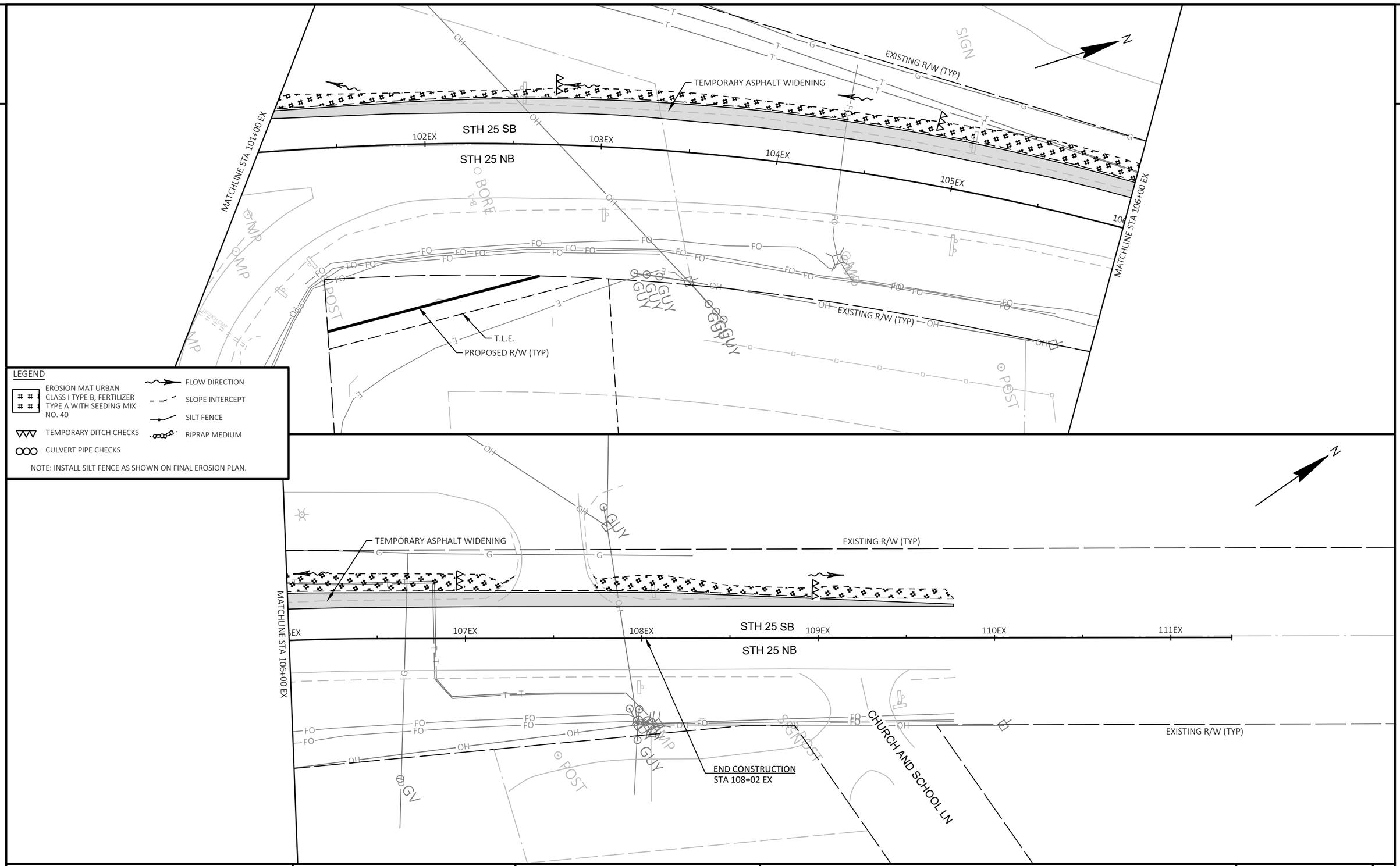
PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	EROSION CONTROL - STAGE 1	SHEET 22	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\022000-EC_ STAGE 1.DWG
LAYOUT NAME - 02

PLOT DATE : 8/1/2025 6:19 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

2



PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	EROSION CONTROL - STAGE 1	SHEET 23	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\022000-EC_ STAGE 1.DWG
LAYOUT NAME - 03

PLOT DATE : 8/1/2025 6:19 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

2

S KIRK RD

EXISTING R/W (TYP)

368EB 369EB 370EB 371EB USH 10 WB USH 10 EB 372EB 373EB 374EB 375

MATCHLINE STA 375+00 EB

BEGIN PROJECT
STA 372+82 EB
Y= 281,728.823
X= 609,638.546

EXISTING R/W (TYP)

LEGEND

- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C
- EROSION MAT URBAN CLASS I TYPE B, FERTILIZER TYPE A WITH SEEDING MIX NO. 40
- EROSION MAT URBAN CLASS I TYPE B, FERTILIZER TYPE A WITH SEEDING MIX NO. 70
- FLOW DIRECTION
- SLOPE INTERCEPT
- SILT FENCE
- RIPRAP MEDIUM
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS

MATCHLINE STA 375+00 EB

PROPOSED R/W

EXISTING R/W (TYP)

4'x 8'

6.5'x 10'

6'x 6'

USH 10 WB

USH 10 EB

376EB 377EB 378EB 379EB

6'x 6'

EXISTING R/W (TYP)

T.L.E.
PROPOSED R/W

MATCHLINE STA 101+00 SB

6'x 6'

USH 10 WB

380EB 381EB USH 10 EB

6'x 6'

5'x 10'

T.L.E.
PROPOSED R/W

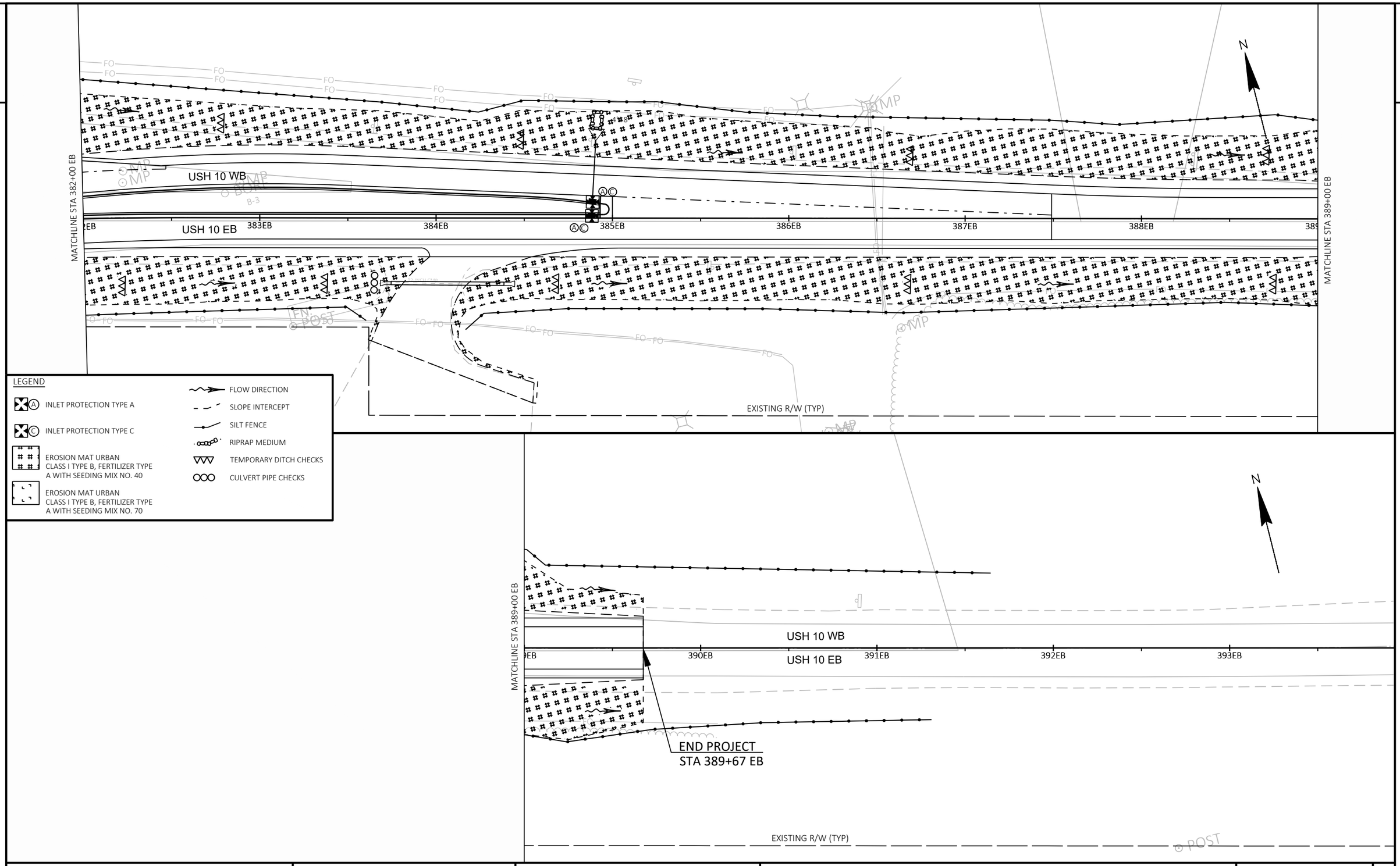
MATCHLINE STA 382+00 EB

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	EROSION CONTROL	SHEET 24	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\022001-EC.DWG
LAYOUT NAME - 01

PLOT DATE : 8/1/2025 6:30 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:50 FT

2



LEGEND

- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C
- EROSION MAT URBAN CLASS I TYPE B, FERTILIZER TYPE A WITH SEEDING MIX NO. 40
- EROSION MAT URBAN CLASS I TYPE B, FERTILIZER TYPE A WITH SEEDING MIX NO. 70
- FLOW DIRECTION
- SLOPE INTERCEPT
- SILT FENCE
- RIPRAP MEDIUM
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	EROSION CONTROL	SHEET 25	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\022001-EC.DWG
LAYOUT NAME - 02

PLOT DATE : 8/1/2025 6:30 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

LEGEND

- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C
- EROSION MAT URBAN CLASS I TYPE B, FERTILIZER TYPE A WITH SEEDING MIX NO. 40
- EROSION MAT URBAN CLASS I TYPE B, FERTILIZER TYPE A WITH SEEDING MIX NO. 70
- FLOW DIRECTION
- SLOPE INTERCEPT
- SILT FENCE
- RIPRAP MEDIUM
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS

MATCHLINE STA 101+00 SB

STH 25 SB

STH 25 NB

102SB 103SB 104SB 105SB 106SB

EXISTING R/W (TYP)

6'x 6'

6'x 6'

4'x 8'

6.5'x 13'

T.L.E.

PROPOSED R/W (TYP)

MATCHLINE STA 106+00 SB

END CONSTRUCTION
STA 108+02 SB

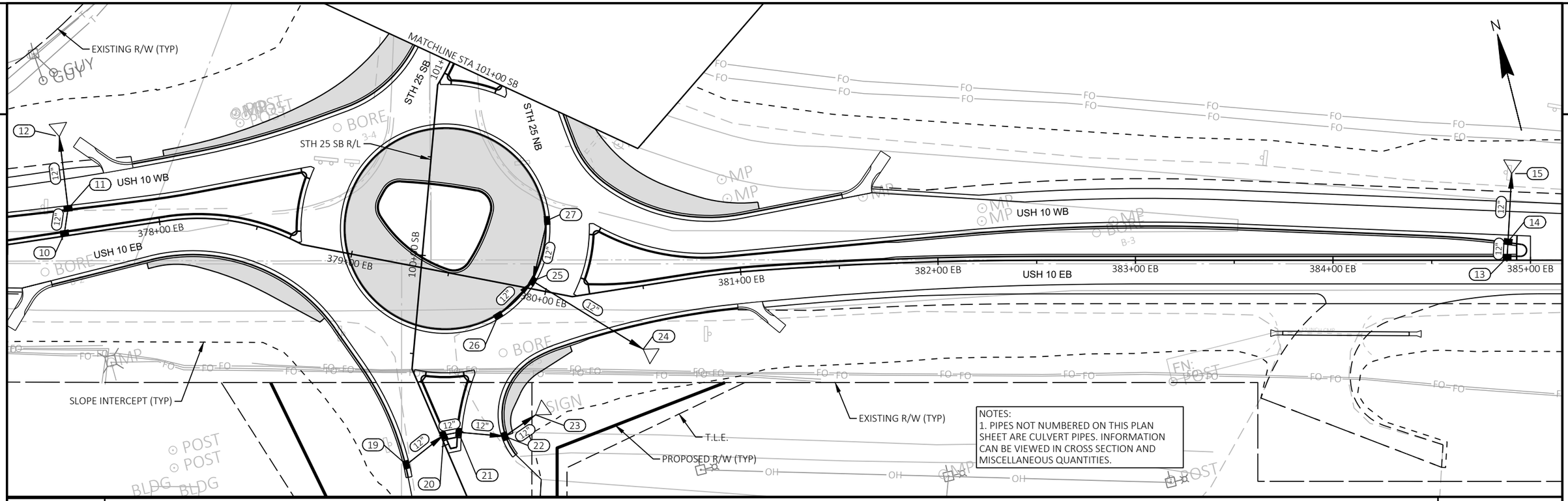
107SB 108SB 109SB 110SB 111SB 112SB

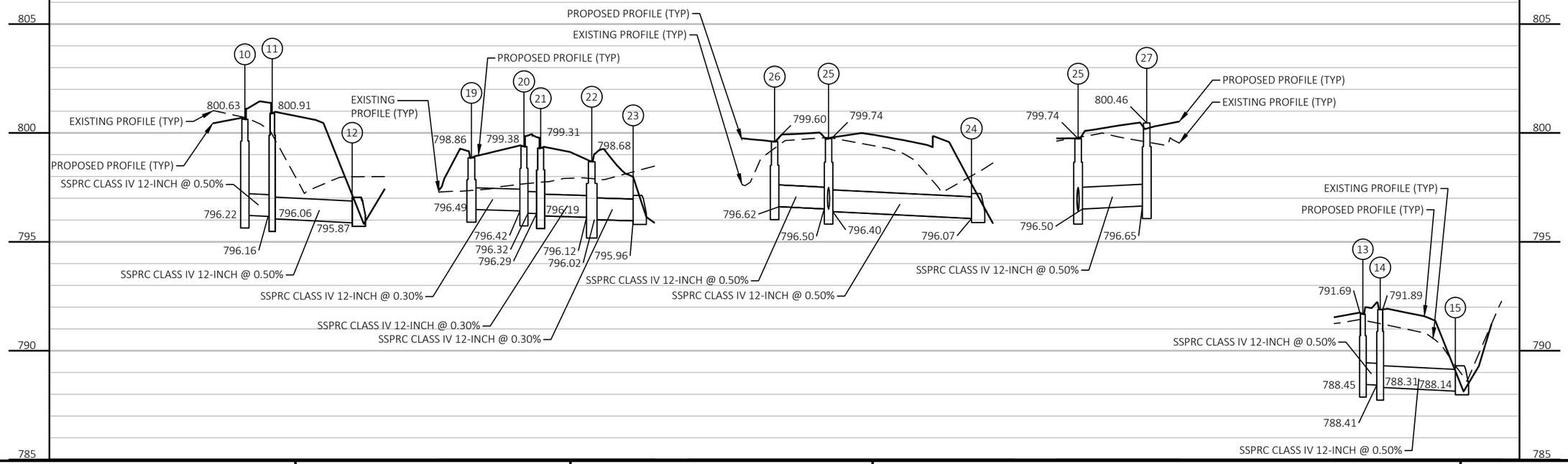
CHURCH AND SCHOOL LN

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	EROSION CONTROL	SHEET 26	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\022001-EC.DWG
LAYOUT NAME - 03

PLOT DATE : 8/1/2025 6:30 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:50 FT



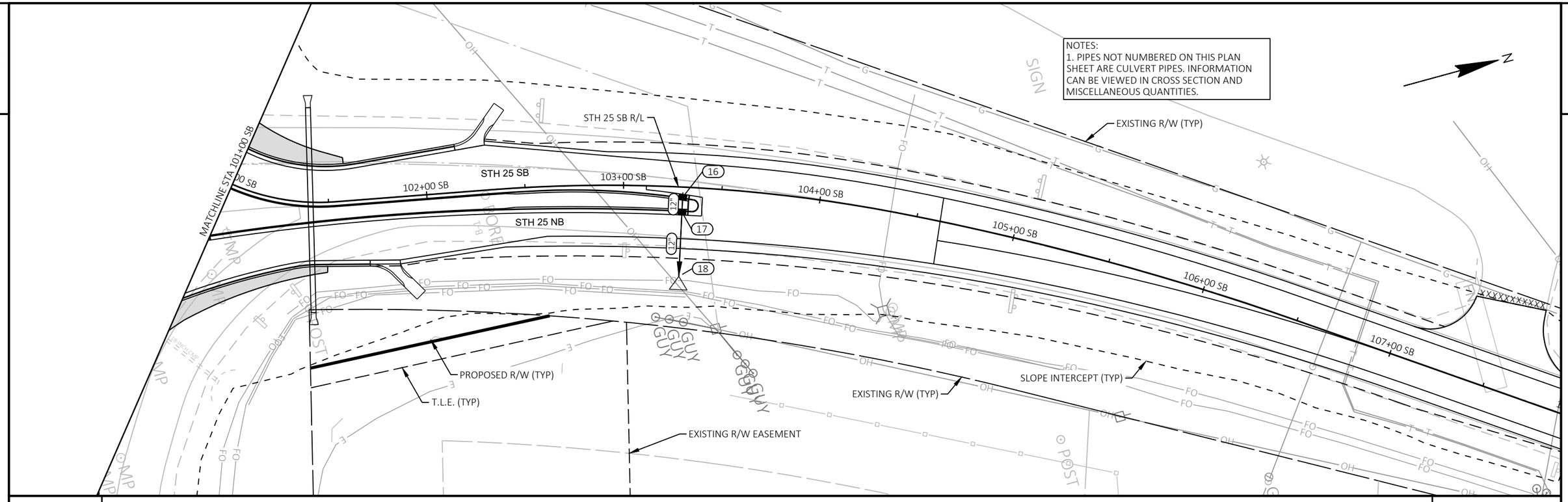


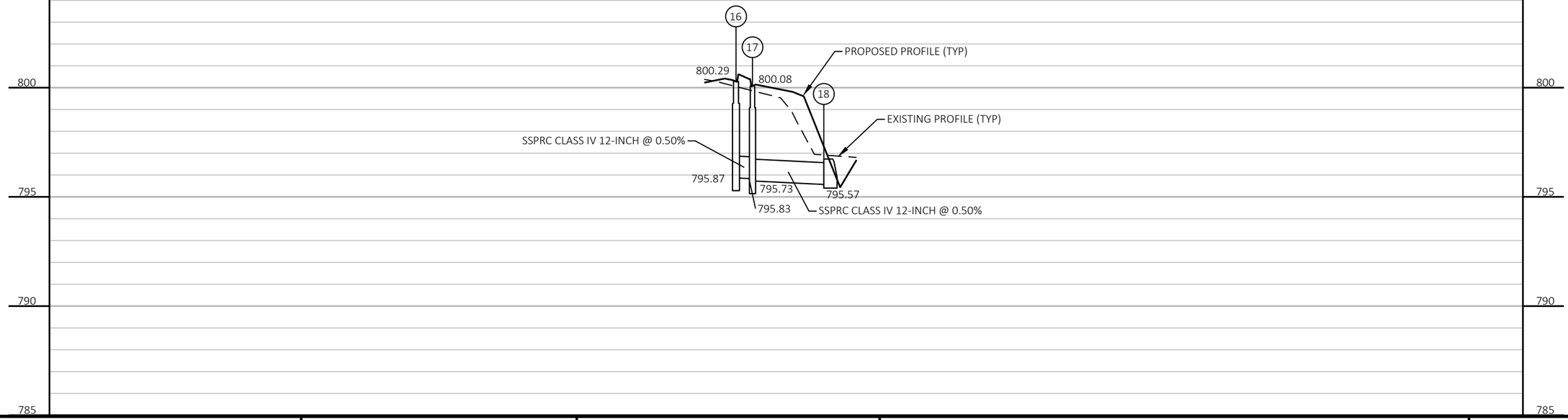
PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	STORM SEWER	SHEET 27	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\022501-SS.DWG
LAYOUT NAME - 01

PLOT DATE : 8/1/2025 6:35 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:50 FT

NOTES:
1. PIPES NOT NUMBERED ON THIS PLAN SHEET ARE CULVERT PIPES. INFORMATION CAN BE VIEWED IN CROSS SECTION AND MISCELLANEOUS QUANTITIES.





PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	STORM SEWER	SHEET 28	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\022501-SS.DWG
LAYOUT NAME - 02

PLOT DATE : 8/1/2025 6:35 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 44

2

N

XCEL ENERGY - ELECTRICITY

WE ENERGIES - GAS

EXISTING R/W (TYP.)

373WB
373EB
374WB
374EB
375WB
375EB
376WB
376EB
377WB
377EB
378WB
378EB

MATCHLINE STA 378+50EB

LC1 - 4 - (1,3)
STA. 375+01.00'EB', 24.0' RT

PB-6
STA. 375+00.89'EB', 29.4' RT

LC1 - 3 - (1,3)
STA. 376+50.43'EB', 24.4' RT

PB - 5
STA. 376+50.10'EB', 29.8' RT

LC1 - 2 - (1,3)
STA. 378+26.12'EB', 28.9' RT

PB - 4
STA. 378+26.42'EB', 33.9' RT

NTEC

EXISTING R/W (TYP.)

PB-15
STA. 380+92.36 WB, -35.0' LT

LC1 - 11 - (1,3)
STA. 380+91.31 WB, -30.0' LT

PB-16
STA. 382+32.33 WB, -30.0' LT

LC1 - 12 - (1,3)
STA. 382+31.74 WB, -24.7' LT

PB-17
STA. 383+80.16 WB, -28.6' LT

LC1 - 13 - (1,3)
STA. 383+80.11 WB, -23.6' LT

NTEC

381WB
381EB
382WB
382EB
383WB
383EB
384WB
384EB
385WB
385EB
386WB
386EB

MATCHLINE STA 380+75EB

NTEC

EXISTING R/W (TYP.)

PROPOSED R/W (TYP.)

PROPOSED TLE (TYP.)

1	1/2"	4 12 LIGHT	2 12 GND	
2	1/2"	2 12 LIGHT	1 12 GND	
3	3/4"	2 12 LIGHT	1 12 GND	
4	3/4"	4 12 LIGHT	4 12 GND	
5	2"	6 12 LIGHT	3 12 GND	

LEGEND

- POLES TYPE 5-ALUMINUM WITH LUMINAIRE ARMS TRUSS TYPE 4 1/2-INCH CLAMP 15-FT CONCRETE BASE TYPE 5, TRANSFORMER BASE LED LAMP TYPE A
- LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE
- CONDUIT RIGID NONMETALLIC SCHEDULE 40 (SCHEDULE 80 BELOW ROADWAY)
- CONDUIT SPECIAL 2-INCH
- PULL BOXES NON-CONDUCTIVE 24X42-INCH

X-X-(X,X) — LIGHTING CONTROL CABINET DESIGNATION / POLE NUMBER / LIGHTING CIRCUIT(S) / ARM LENGTH

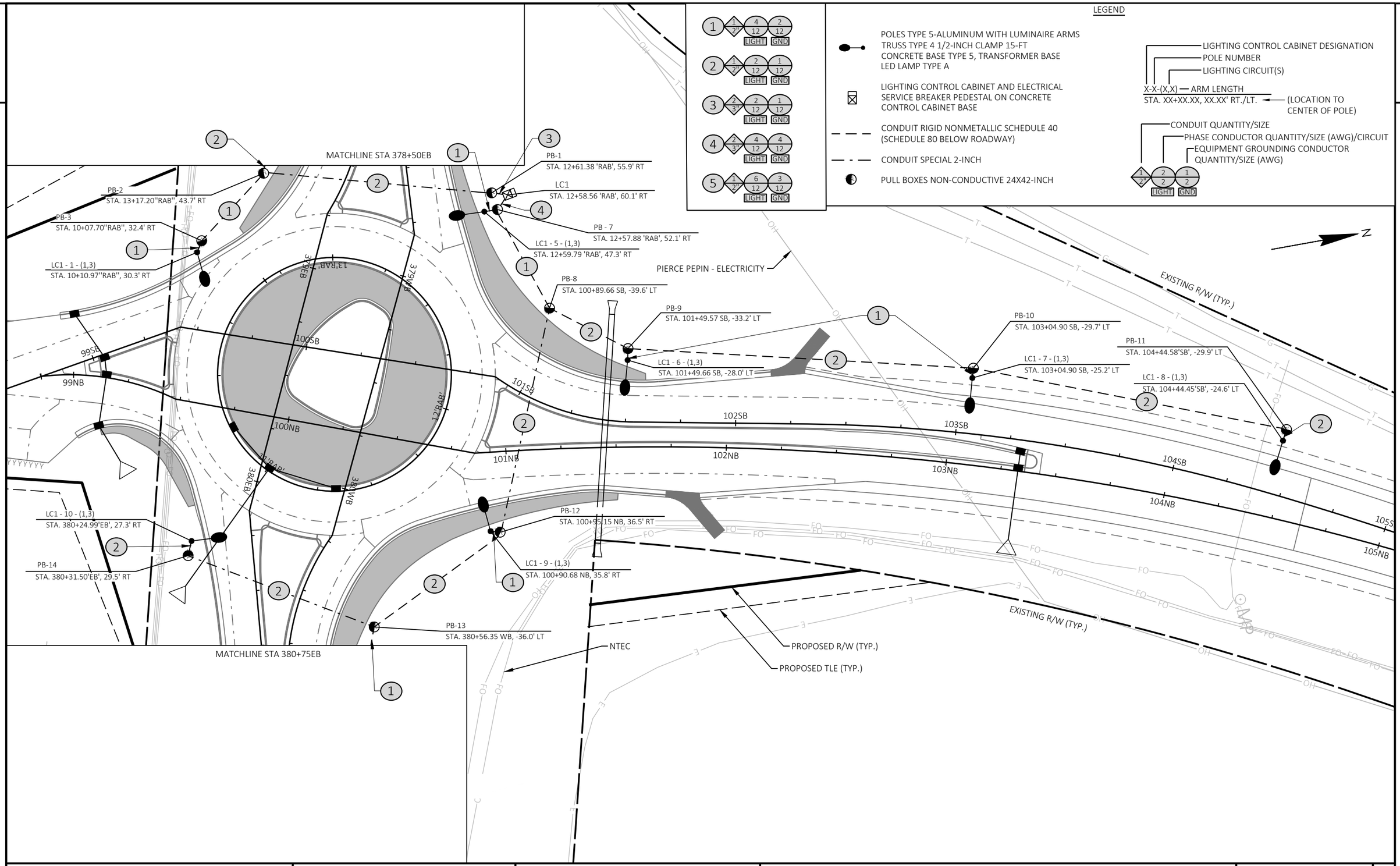
STA. XX+XX.XX, XX.XX' RT./LT. — (LOCATION TO CENTER OF POLE)

CONDUIT QUANTITY/SIZE / PHASE CONDUCTOR QUANTITY/SIZE (AWG)/CIRCUIT / EQUIPMENT GROUNDING CONDUCTOR QUANTITY/SIZE (AWG)

1/2" 2 2 1 2 LIGHT GND

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	LIGHTING PLAN	SHEET 29 E

FILE NAME : G:\13\13544\13544014\CADD\C3D\15300575\SHEETS\023601-LP.DWG
LAYOUT NAME - 023601-lp
PLOT DATE : 7/30/2025 11:43 AM
PLOT BY : NATHAN COOK
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44



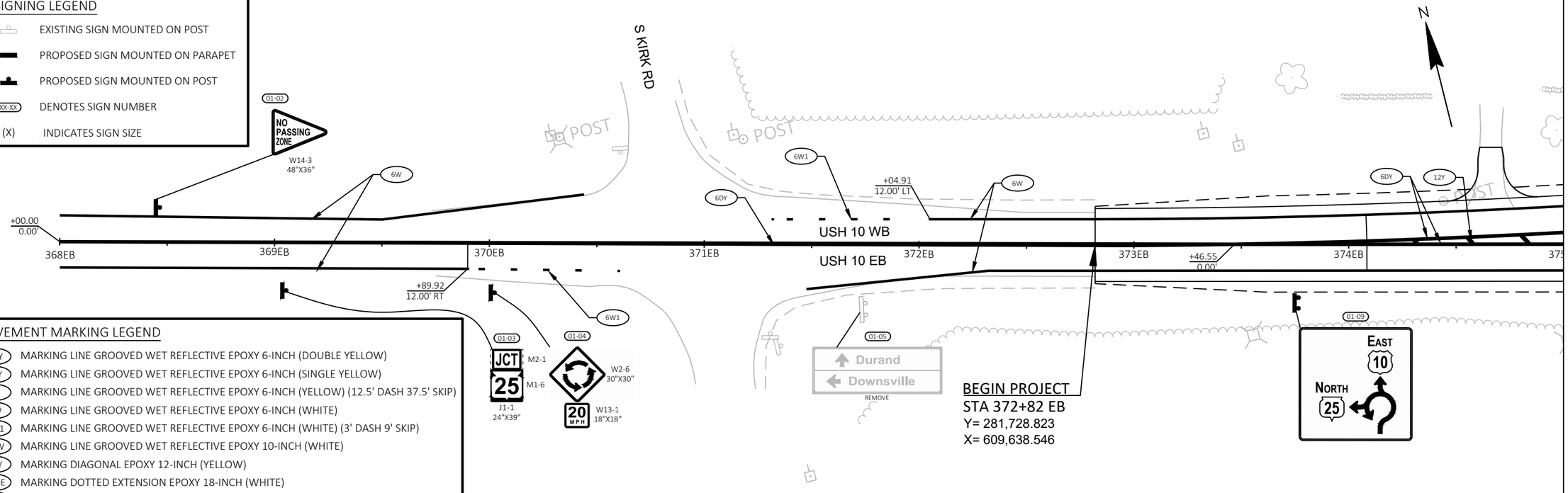
PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	LIGHTING PLAN	SHEET 30	E

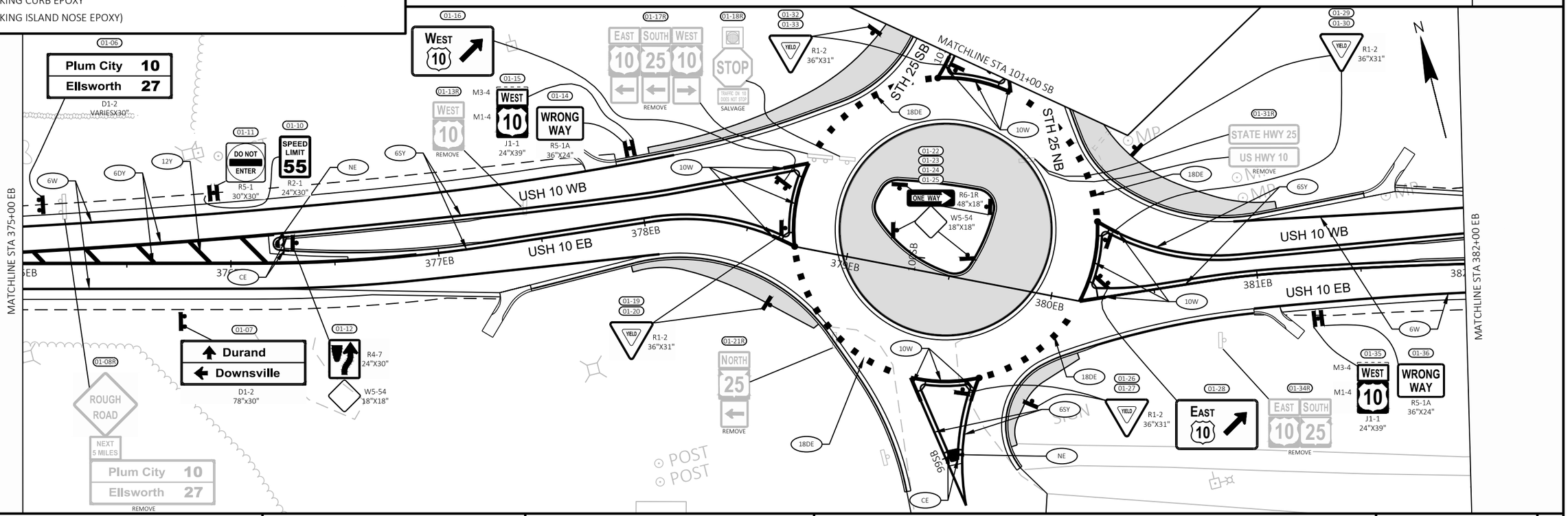
SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST
- PROPOSED SIGN MOUNTED ON PARAPET
- PROPOSED SIGN MOUNTED ON POST
- (XX-XX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

PAVEMENT MARKING LEGEND

- (6DY) MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH (DOUBLE YELLOW)
- (6SY) MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH (SINGLE YELLOW)
- (6Y) MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH (YELLOW) (12.5' DASH 37.5' SKIP)
- (6W) MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH (WHITE)
- (6W1) MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH (WHITE) (3' DASH 9' SKIP)
- (10W) MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH (WHITE)
- (12Y) MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
- (18DE) MARKING DOTTED EXTENSION EPOXY 18-INCH (WHITE)
- (CE) MARKING CURB EPOXY
- (NE) MARKING ISLAND NOSE EPOXY)





PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	PAVEMENT MARKING AND PERMANENT SIGNING	SHEET 31	E

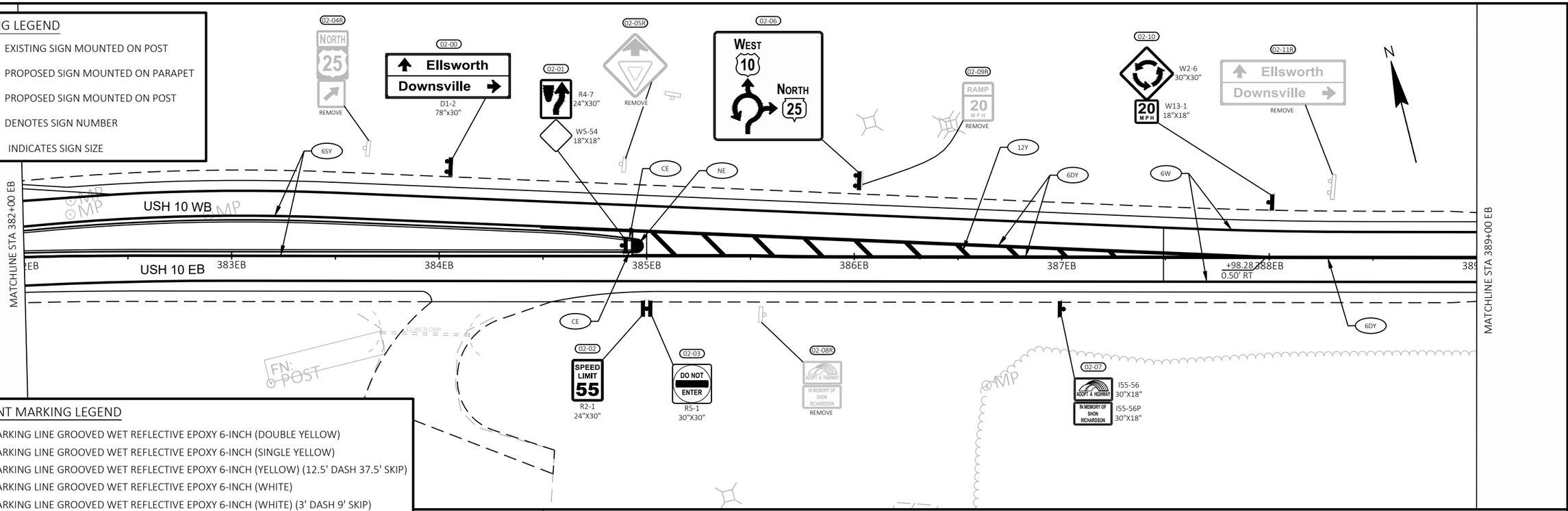
FILE NAME : O:\PDS\C3D\15300505\SHEETS\024501-PM.DWG
LAYOUT NAME - 01
PLOT DATE : 8/1/2025 6:38 AM
PLOT BY : CORY IHDE
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

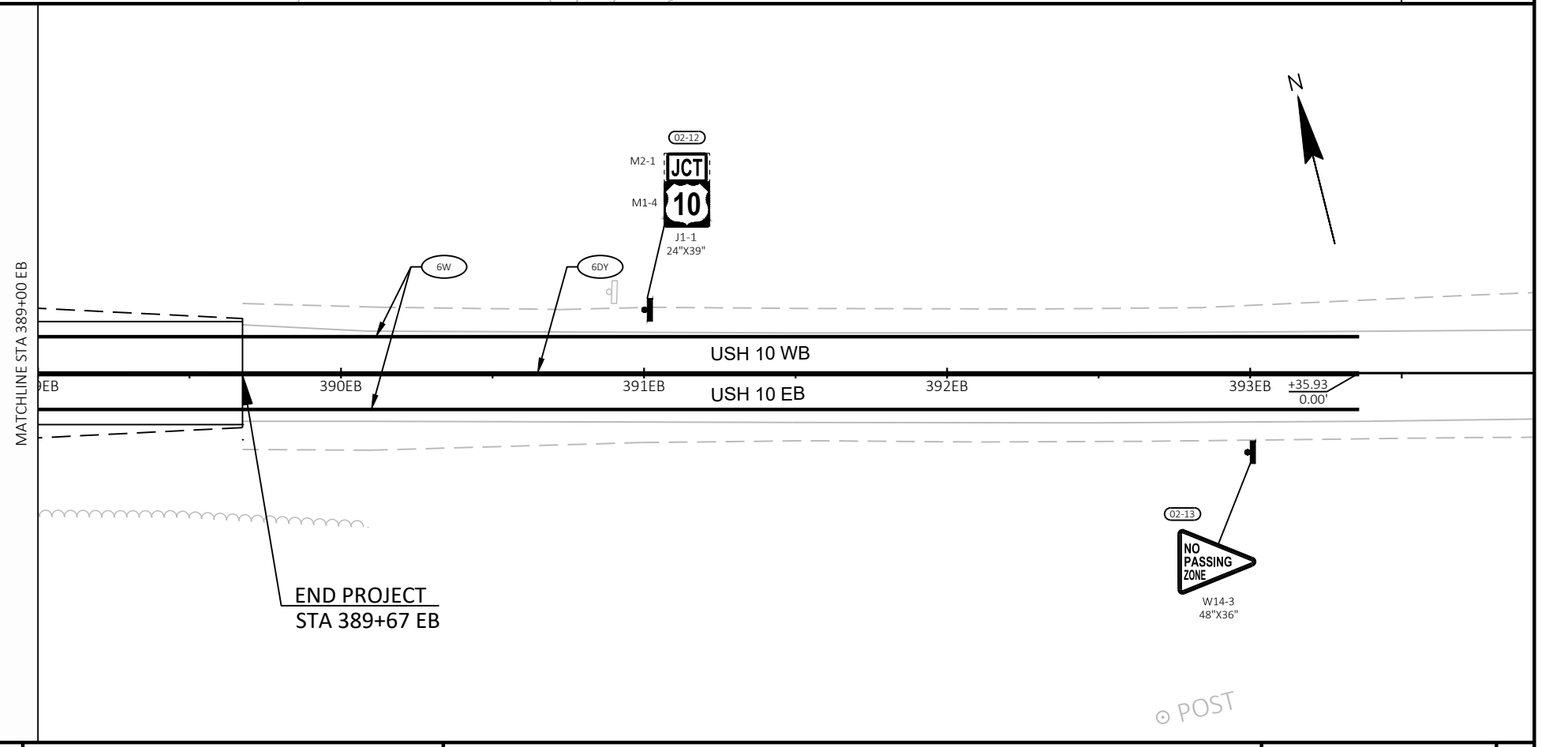
SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST
- PROPOSED SIGN MOUNTED ON PARAPET
- PROPOSED SIGN MOUNTED ON POST
- XX-XX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

PAVEMENT MARKING LEGEND

- 6DY MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH (DOUBLE YELLOW)
- 6SY MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH (SINGLE YELLOW)
- 6Y MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH (YELLOW) (12.5' DASH 37.5' SKIP)
- 6W MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH (WHITE)
- 6W1 MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH (WHITE) (3' DASH 9' SKIP)
- 10W MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH (WHITE)
- 12Y MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
- 18DE MARKING DOTTED EXTENSION EPOXY 18-INCH (WHITE)
- CE MARKING CURB EPOXY
- NE MARKING ISLAND NOSE EPOXY)





PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	PAVEMENT MARKING AND PERMANENT SIGNING	SHEET 32	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\024501-PM.DWG
LAYOUT NAME - 02

PLOT DATE : 8/1/2025 6:38 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:50 FT

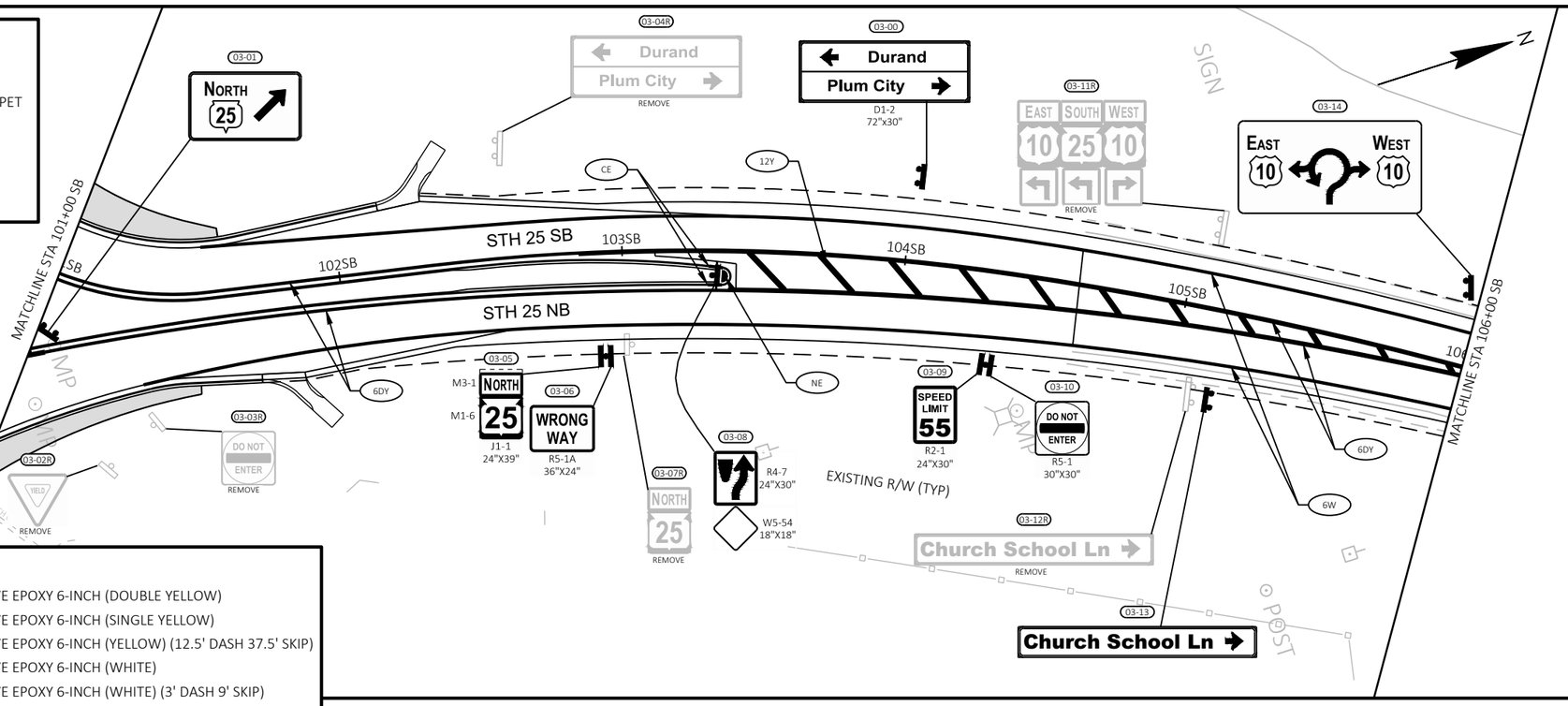
WISDOT/CADDS SHEET 44

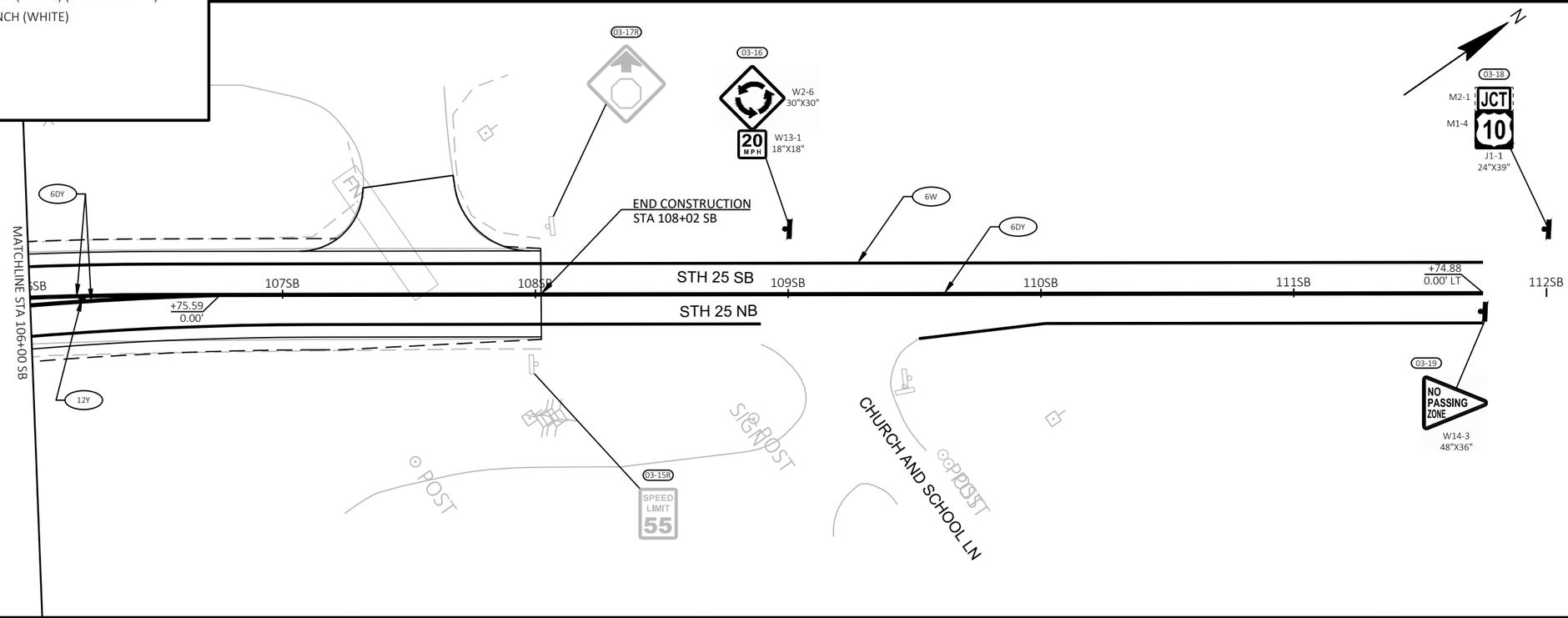
SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST
- PROPOSED SIGN MOUNTED ON PARAPET
- PROPOSED SIGN MOUNTED ON POST
- XX-XX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

PAVEMENT MARKING LEGEND

- 6DY MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH (DOUBLE YELLOW)
- 6SY MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH (SINGLE YELLOW)
- 6Y MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH (YELLOW) (12.5' DASH 37.5' SKIP)
- 6W MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH (WHITE)
- 6W1 MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH (WHITE) (3' DASH 9' SKIP)
- 10W MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH (WHITE)
- 12Y MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
- 18DE MARKING DOTTED EXTENSION EPOXY 18-INCH (WHITE)
- CE MARKING CURB EPOXY
- NE MARKING ISLAND NOSE EPOXY)





PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	PAVEMENT MARKING AND PERMANENT SIGNING	SHEET 33	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\024501-PM.DWG
LAYOUT NAME - 03

PLOT DATE : 8/1/2025 6:38 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 44

LEGEND

SIGN ON PERMANENT SUPPORT

PROJECT LIMITS

NOTE:

SEE S.D.D. "ADVANCED WARNING WIDTH RESTRICTION SIGNING" FOR ADDITIONAL DETAILS AND DIMENSIONS.

N

Arkansaw

Durand

Thompson L.

MO3-2 24"X12" M1-4 24"X24" EAST 10 MAX. 11' WIDTH W12-52 48"X48" 1 3/4 MILES AHEAD WO57-52 48"X36"

MO3-2 24"X12" M1-4 24"X24" EAST 10 MAX. 11' WIDTH W12-52 48"X48"

MO3-3 24"X12" M1-6 24"X24" SOUTH 25 MAX. 11' WIDTH W12-52 48"X48" 2.3 MILES AHEAD WO57-52 48"X36"

MO3-3 24"X12" M1-6 24"X24" SOUTH 25 MAX. 11' WIDTH W12-52 48"X48"

MO3-4 24"X12" M1-4 24"X24" WEST 10 MAX. 11' WIDTH W12-52 48"X48"

MO3-4 24"X12" M1-4 24"X24" WEST 10 MAX. 11' WIDTH W12-52 48"X48" 2 MILES AHEAD WO57-52 48"X36"

MO3-4 24"X12" M1-4 24"X24" WEST 10 MAX. 11' WIDTH W12-52 48"X48" 1 MILES AHEAD WO57-52 48"X36"

MO3-4 24"X12" M1-4 24"X24" WEST 10 MAX. 11' WIDTH W12-52 48"X48"

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	ADVANCED WARNING SIGNING	SHEET 34 E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\025000-AW.DWG
LAYOUT NAME - 01

PLOT DATE : 7/31/2025 3:01 PM PLOT BY : ED OCHS PLOT NAME : PLOT SCALE : 1 IN:0.5 MI

WISDOT/CADDS SHEET 44

TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE/TYPE III BARRICADE WTH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- EXISTING SIGN ON POST
- SIGN ON TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA
- TEMPORARY PAVEMENT
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- REMOVING PAVEMENT MARKING
- FLAGS, 16" X 16" MIN. (ORANGE)

PAVEMENT MARKING LEGEND

P6W	TEMPORARY MARKING LINE PAINT 6-INCH (WHITE)
P6DY	TEMPORARY MARKING LINE PAINT 6-INCH (DOUBLE YELLOW)
P6W3	TEMPORARY MARKING LINE PAINT 6-INCH (WHITE) (3' SKIP)
P6Y3	TEMPORARY MARKING LINE PAINT 6-INCH (YELLOW) (3' SKIP)
P10W3	TEMPORARY MARKING LINE PAINT 10-INCH (WHITE) (3' SKIP)
P18W	TEMPORARY MARKING STOP LINE PAINT 18-INCH (WHITE)
T6W	TEMPORARY LINE REMOVABLE TAPE 6-INCH (WHITE)
T6Y	TEMPORARY LINE REMOVABLE TAPE 6-INCH (YELLOW)
T6DY	TEMPORARY LINE REMOVABLE TAPE 6-INCH (DOUBLE YELLOW)
T18W	TEMPORARY LINE REMOVABLE TAPE STOP LINE 18-INCH (WHITE)

TEMPORARY DRAINAGE LEGEND

TCP	INSTALL TEMPORARY COVER PLATE
TPS	TEMPORARY PIPE SEAL (INCIDENTAL TO PIPE REMOVAL OR PIPE BID ITEM)

TRAFFIC CONTROL GENERAL NOTES:

ALL TRAFFIC CONTROL SIGNS AND DEVICES AND THEIR LOCATION SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD), THE PLANS, SPECIFICATIONS, CONTRACT AND APPLICABLE STANDARD DETAIL DRAWINGS.

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

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

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

ALL SIGNS INAPPROPRIATE TO THE WORK ZONE, INCLUDING PRE-EXISTING SIGNING, SHALL BE COVERED, REMOVED, OR ALTERED AS SPECIFIED IN THE PLANS AND/OR SPECIALS PROVISIONS OR AS DIRECTED BY THE ENGINEER.

ALL EXISTING CONFLICTING PAVEMENT MARKING SHALL BE REMOVED.

GENERAL TRAFFIC CONTROL REQUIREMENTS:

MINIMUM LANE WIDTH REQUIRED ON USH 10 AND STH 25 IS 11'.

USE TEMPORARY MARKING LINE REMOVABLE TAPE X-INCH ON FINISHED PAVEMENT SURFACES THAT WILL REMAIN.

TEMPORARY PAVEMENT:

ASPHALTIC SURFACE TEMPORARY SHALL BE A 5" DEPTH.

BASE AGGREGATE 1 1//4" DEPTH SHALL BE 10" OR MATCH ADJACENT PROPOSED SUBGRADE DEPTH.

ALIGNMENT NOTES:

10 EX = EXISTING USH 10 (STAGE 1)
10 EB = PROPOSED USH 10 EASTBOUND (STAGES 2 TO 5)
25 EX =EXISTING STH 25 (STAGE 1)
25 SB =PROPOSED STH 25 SOUTHBOUND (STAGES 2 TO 5)

2

2

LEGEND:

- STAGE 1 TEMPORARY WIDENING (WORK ZONE NOT SHOWN FOR CLARITY)
- STAGE 2
- STAGE 3
- STAGE 4
- STAGE 5

N

S KIRK RD

BEGIN PROJECT
STA 372+82 EB
Y= 281,728.823
X= 609,638.546

END CONSTRUCTION
STA 108+02 SB

PROPOSED R/W

T.L.E.

EXISTING R/W (TYP)

PROPOSED R/W

370

380

390

PROPOSED R/W

T.L.E.

PROPOSED R/W

T.L.E.

EXISTING R/W (TYP)

END PROJECT
STA 389+67 EB

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CONSTRUCTION STAGING OVERVIEW	SHEET 36	E

PCMS MESSAGE OVERVIEW			
		7 DAYS PRIOR TO CONSTRUCTION START	
SIGN OWNER	PCMS SITE NO. (DIR.)	FRAME 1 (2 SEC)	FRAME 2 (2 SEC)
CONTRACTOR	USH 10 EB	ROAD WORK BEGINS	{DAY} {DATE}

STAGE 1 CONSTRUCTION:

- CONSTRUCT TEMPORARY WIDENING ON THE SOUTH SIDE OF USH 10.
- CONSTRUCT TEMPORARY WIDENING ON THE WEST SIDE OF STH 25.
- CONSTRUCT ROUNDABOUT STORM SEWER OUTFALL PIPE.

STAGE 1 TRAFFIC:

- CLOSE SHOULDER TO COMPLETE WORK. SEE S.D.D. "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY," AND S.D.D. "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION," FOR ADDITIONAL DETAILS.
- MAINTAIN 11' MINIMUM TRAVEL LANES AND 1' SHY DISTANCE TO DRUMS.
- MAINTAIN ACCESS TO ALL RESIDENCES AND BUSINESSES.

END ROAD WORK
G20-2A
48"X24"

S KIRK RD

EXISTING R/W (TYP)

500'

100' TYP

USH 10

370EX

372EX

374

50' TYP

15' TYP

+53.60
22.77' RT

+56.69
26.97' RT

12'

MATCHLINE STA 374+00 EX

MB

500' 500' 500' 54' TAPER 335'

ROAD WORK AHEAD
W20-1A

RIGHT SHOULDER CLOSED
W21-5A

EXISTING R/W (TYP)

MATCHLINE STA 101+00 EX

STH 25

PROPOSED R/W

COMPLETE STORM SEWER CONSTRUCTION UNDER FLAGGING OPERATION. STORM SEWER CONSTRUCTION REQUIRED FOR TEMP DRAINAGE DURING STAGE 2 CONSTRUCTION AND STAGE 3 TRAFFIC. PAVE TRENCH WITH ASPHALTIC SURFACE TEMPORARY BY THE END OF THE WEEK.

+13.17
-54.59' LT

TPS

TCP

6W

376EX

378EX

380EX

+36.06
26.95' RT

LANE CLOSED
R11-2L
48"X30"

T.L.E.

PROPOSED R/W

MATCHLINE STA 374+00 EX

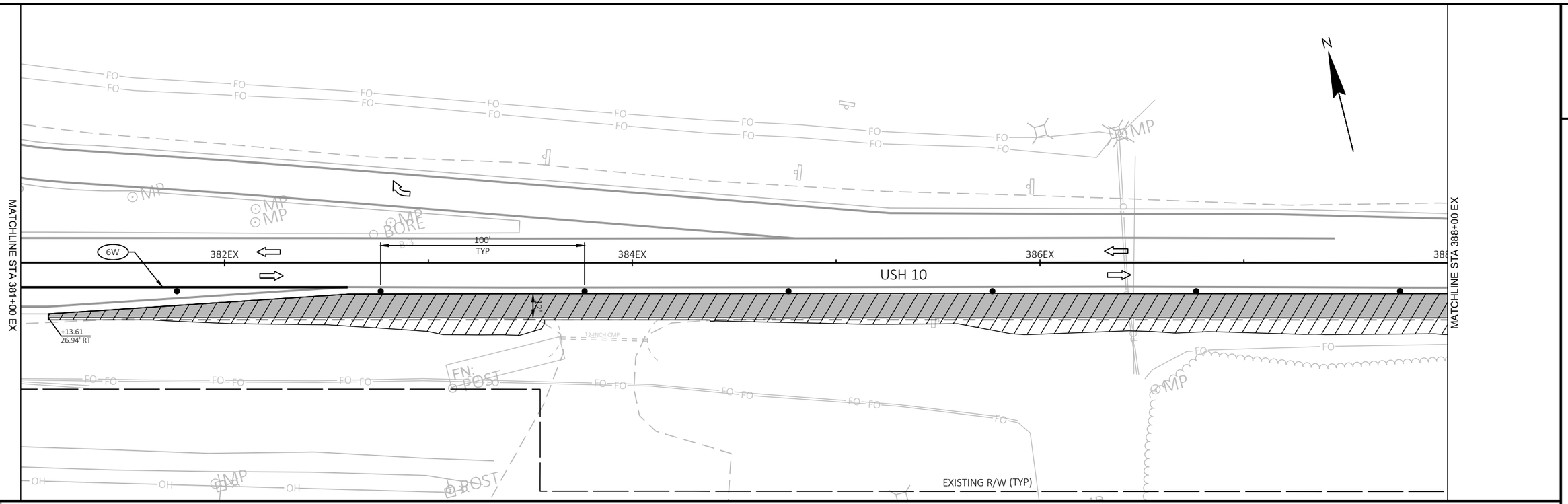
MATCHLINE STA 381+00 EX

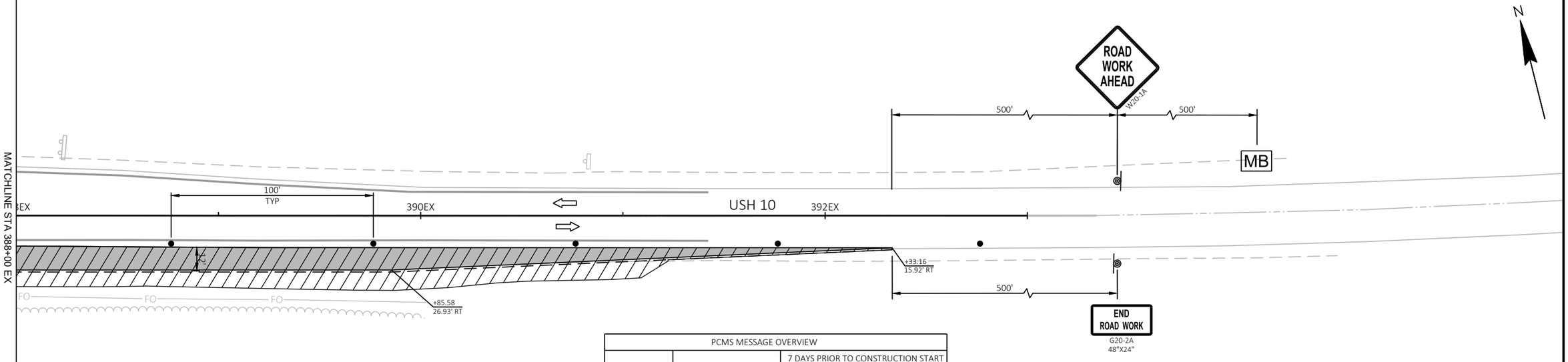
PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	STAGED CONSTRUCTION - STAGE 1	SHEET 37	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\025101-TC-STAGE 1.DWG
LAYOUT NAME - 01

PLOT DATE : 8/1/2025 9:44 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44





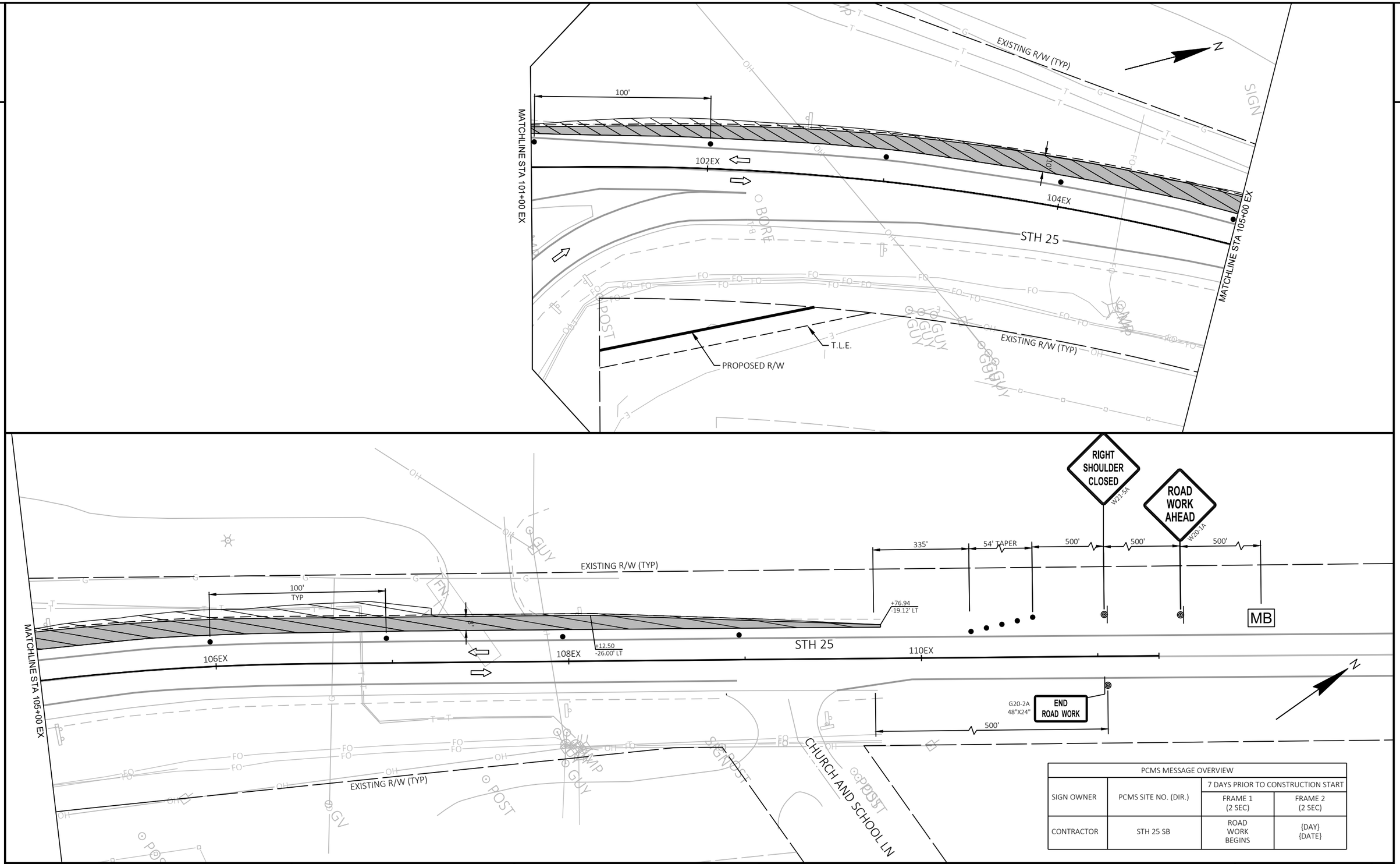
PCMS MESSAGE OVERVIEW			
		7 DAYS PRIOR TO CONSTRUCTION START	
SIGN OWNER	PCMS SITE NO. (DIR.)	FRAME 1 (2 SEC)	FRAME 2 (2 SEC)
CONTRACTOR	USH 10 WB	ROAD WORK BEGINS	{DAY} {DATE}

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	STAGED CONSTRUCTION - STAGE 1	SHEET 38	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\025101-TC-STAGE 1.DWG
LAYOUT NAME - 02

PLOT DATE : 8/1/2025 9:44 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:50 FT

2



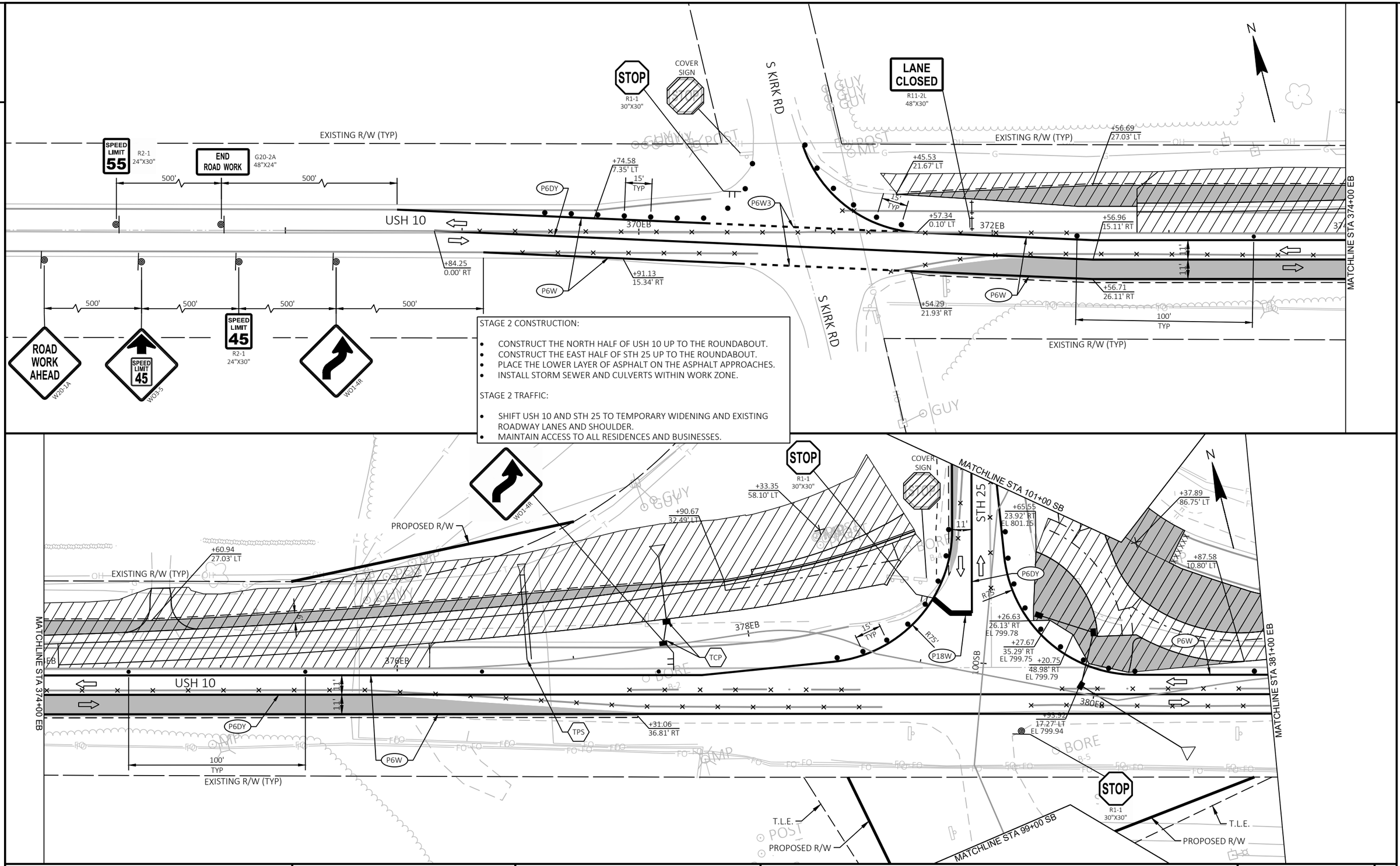
PCMS MESSAGE OVERVIEW			
		7 DAYS PRIOR TO CONSTRUCTION START	
SIGN OWNER	PCMS SITE NO. (DIR.)	FRAME 1 (2 SEC)	FRAME 2 (2 SEC)
CONTRACTOR	STH 25 SB	ROAD WORK BEGINS	{DAY} {DATE}

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	STAGED CONSTRUCTION - STAGE 1	SHEET 39	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\025101-TC-STAGE 1.DWG
LAYOUT NAME - 03

PLOT DATE : 8/1/2025 9:44 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:50 FT

2



PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	STAGED CONSTRUCTION - STAGE 2	SHEET 40	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\025101-TC-STAGE 2.DWG
LAYOUT NAME - 01

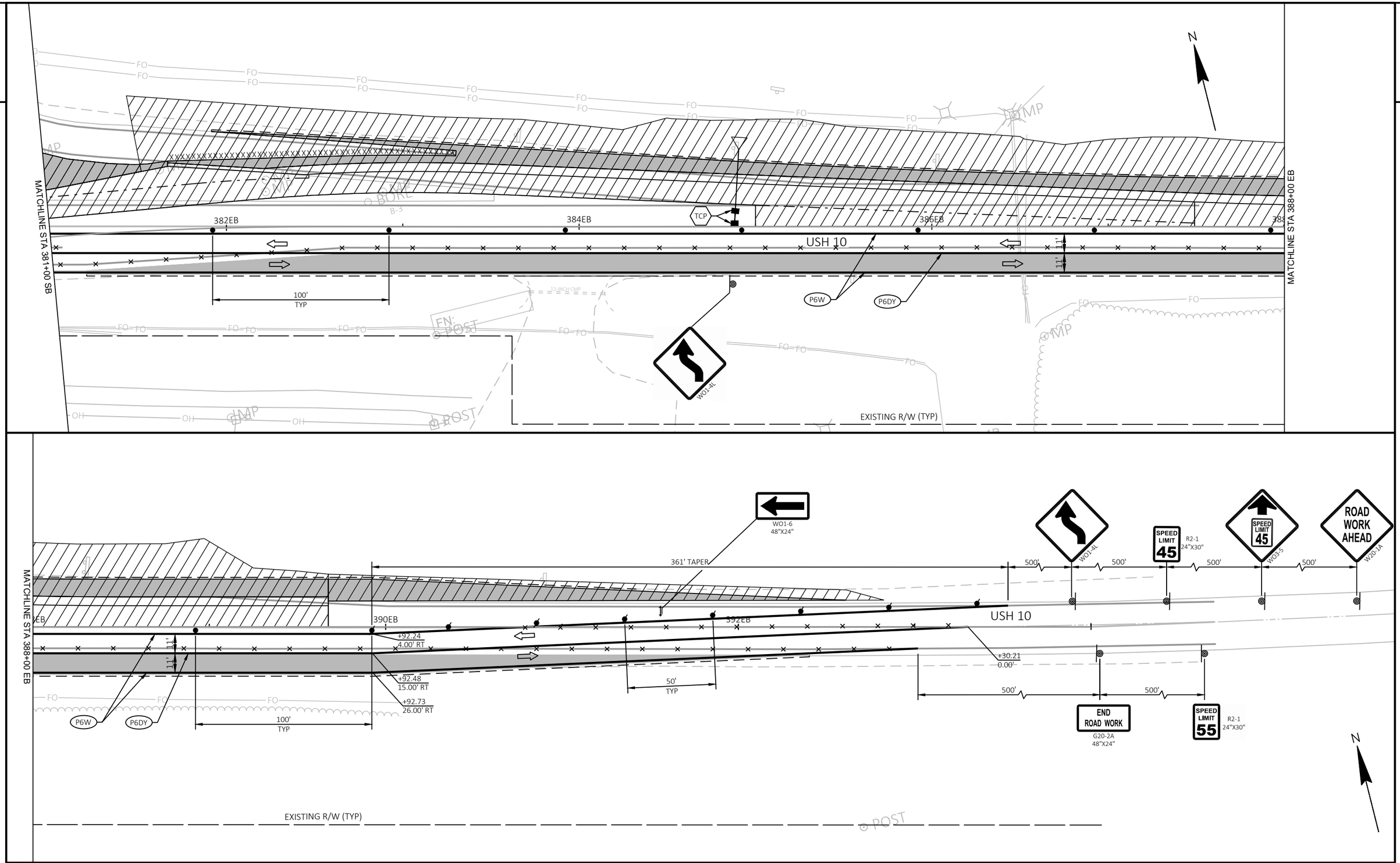
PLOT DATE : 8/1/2025 9:48 AM

PLOT BY : CORY IHDE

PLOT NAME :

PLOT SCALE : 1 IN:50 FT

2



PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	STAGED CONSTRUCTION - STAGE 2	SHEET 41	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\025101-TC-STAGE 2.DWG
LAYOUT NAME - 02

PLOT DATE : 8/1/2025 9:48 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

T.L.E.

PROPOSED R/W

MATCHLINE STA 99+00 SB

BLDG

EXISTING R/W (TYP)

N

100'
TYP

P6W

P6DY

MATCHLINE STA 101+00 SB

STH 25

102SB

104SB

11'

MATCHLINE STA 105+00 SB

+83.98
33.96' RT

+68.57
34.11' RT

+51.88
34.41' RT

T.L.E.

PROPOSED R/W

EXISTING R/W (TYP)

SIGN

POST

GUY

OH

FO

EXISTING R/W (TYP)

100'
TYP

+12.30
14.10' LT

P6W

P6DY

11'

6'

STH 25

106SB

108SB

110SB

112SB

+46.51
0.01' LT

MATCHLINE STA 105+00 SB

+02.44
22.90' RT

+89.13
19.05' RT

15'
TYP

15'
TYP

CHURCH AND SCHOOL LN

STOP

R1-1
30"X30"

COVER
SIGN

500'

W01-4R

MATCHLINE STA 112+25 SB

N

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	STAGED CONSTRUCTION - STAGE 2	SHEET 42	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\025101-TC-STAGE 2.DWG
LAYOUT NAME - 03

PLOT DATE : 8/1/2025 9:48 AM

PLOT BY : CORY IHDE

PLOT NAME :

PLOT SCALE : 1 IN:50 FT

2

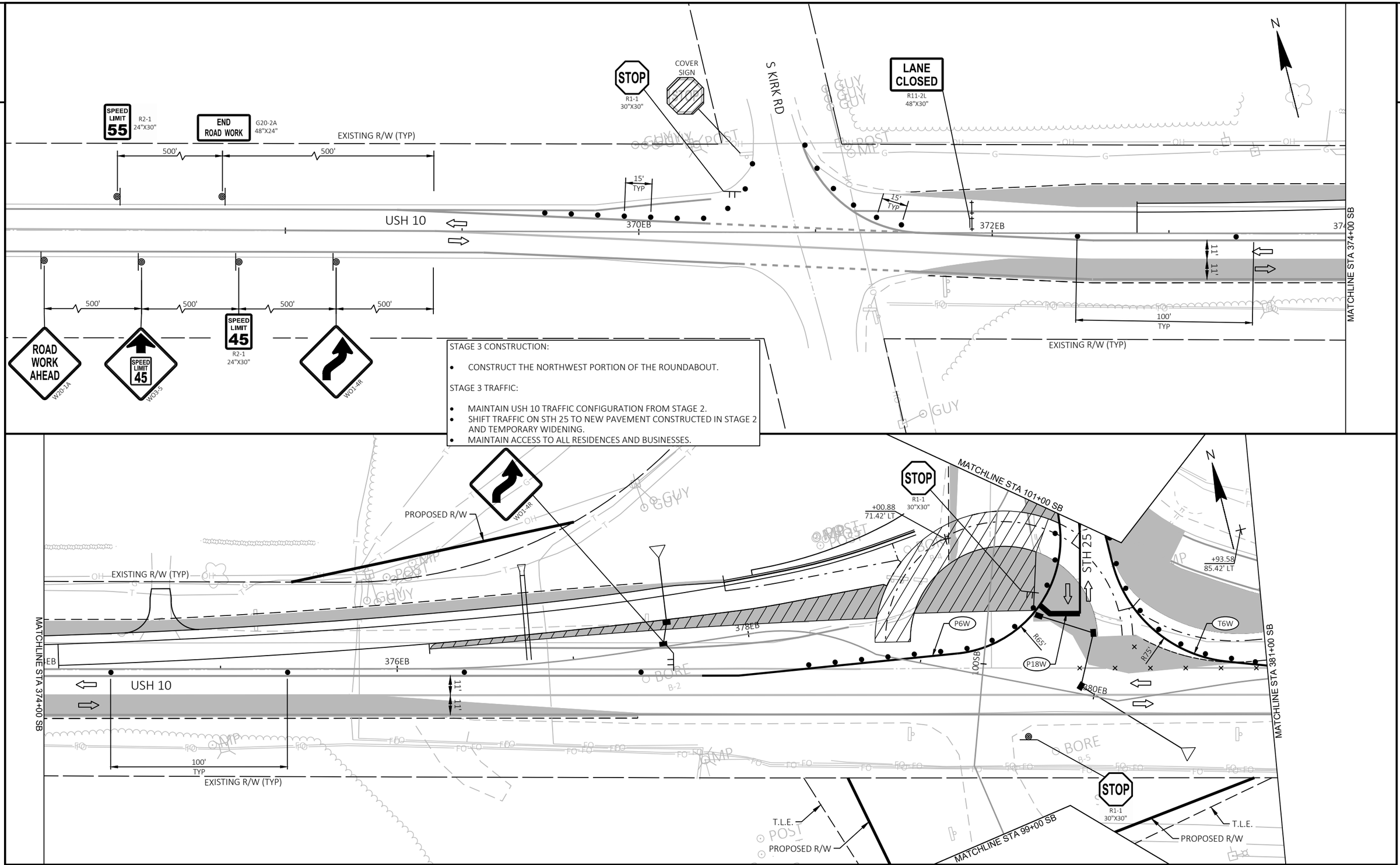


PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	STAGED CONSTRUCTION - STAGE 2	SHEET 43	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\025101-TC-STAGE 2.DWG
LAYOUT NAME - 04

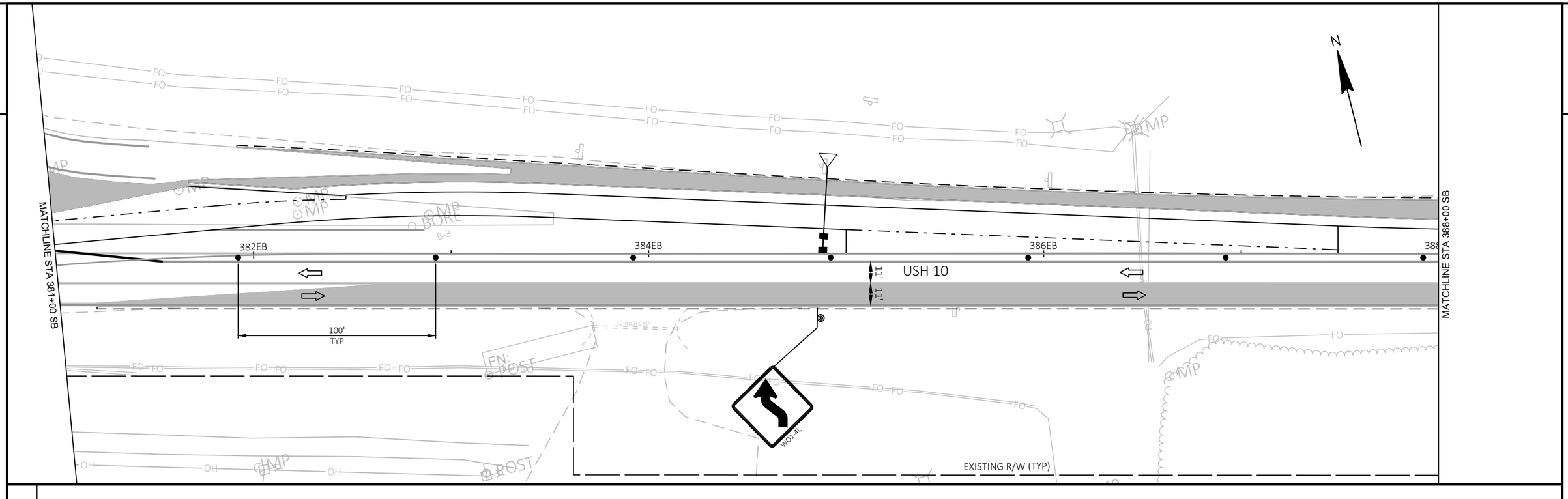
PLOT DATE : 8/1/2025 9:48 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : ##########

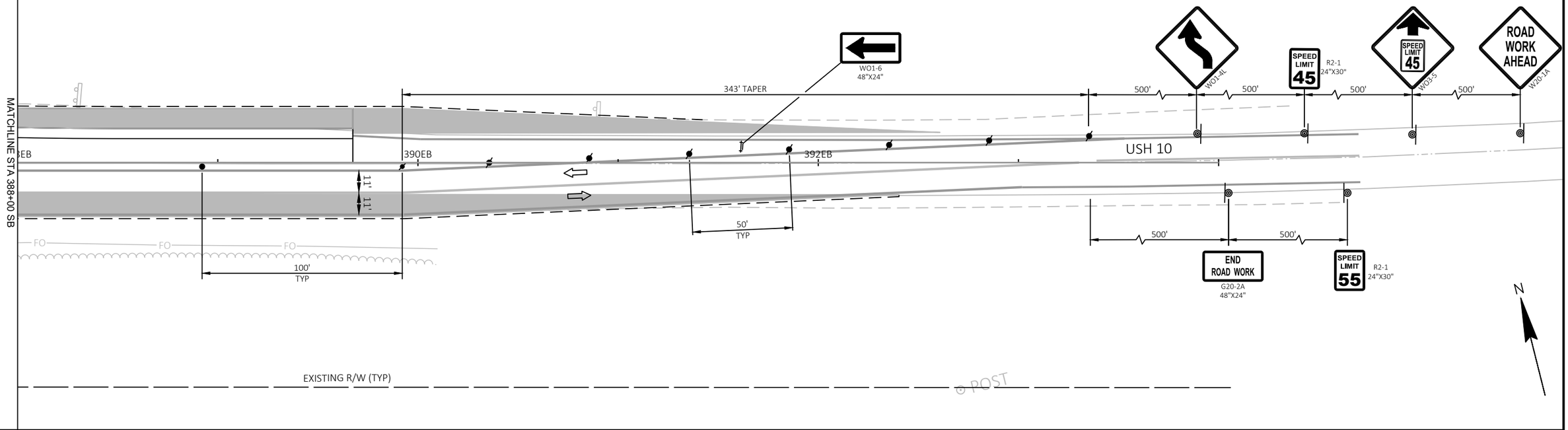
2



PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	STAGED CONSTRUCTION - STAGE 3	SHEET 44	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\025101-TC-STAGE 3.DWG
LAYOUT NAME - 01
PLOT DATE : 9/12/2025 2:41 PM
PLOT BY : CORY IHDE
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44





PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	STAGED CONSTRUCTION - STAGE 3	SHEET 45	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\025101-TC-STAGE 3.DWG
LAYOUT NAME - 02

PLOT DATE : 9/12/2025 2:41 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

T.L.E.

PROPOSED R/W

MATCHLINE STA 99+00 SB

MATCHLINE STA 101+00 SB

EXISTING R/W (TYP)

N

SIGN

100'
TYP

102SB

104SB

T6W

T6DY

P6W

P6DY

STH 25

11'

11'

5'

MATCHLINE STA 105+00 EB

T.L.E.

PROPOSED R/W

W01-4L

EXISTING R/W (TYP)

BLDG

BLDG

WELL

POST

SIGN POST

GUY

GGUY

OHP

FO

OH

MATCHLINE STA 105+00 EB

EXISTING R/W (TYP)

W01-6
48"X24"

360' TAPER

100'
TYP

50'
TYP

500'

500'

500'

500'

W01-4L

R2-1
24"X30"

SPEED LIMIT 45

W03-3

ROAD WORK AHEAD

W20-1A

106SB

108SB

110SB

112SB

P6W

P6DY

11'

11'

5'

+00
11.00' RT

+47.25
0.00'

STH 25

LANE CLOSED
R11-2L
48"X30"

SIGN POST

CHURCH AND SCHOOL LN

STOP
R1-1
30"X30"

COVER SIGN

500'

500'

END ROAD WORK
G20-2A
48"X24"

SPEED LIMIT 55
R2-1
24"X30"

N

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	STAGED CONSTRUCTION - STAGE 3	SHEET 46	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\025101-TC-STAGE 3.DWG
LAYOUT NAME - 03

PLOT DATE : 9/12/2025 2:41 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:50 FT

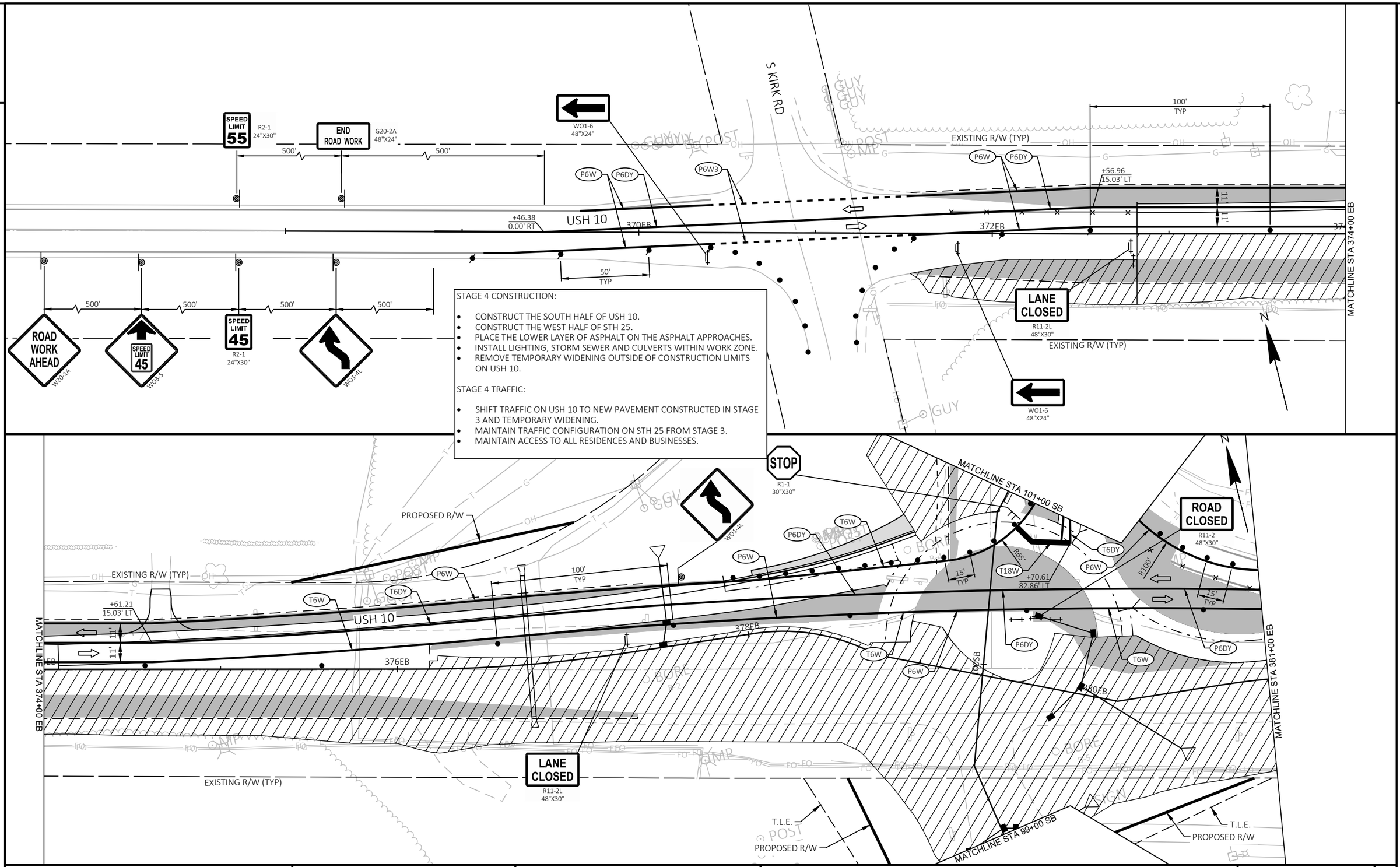
2

STAGE 4 CONSTRUCTION:

- CONSTRUCT THE SOUTH HALF OF USH 10.
- CONSTRUCT THE WEST HALF OF STH 25.
- PLACE THE LOWER LAYER OF ASPHALT ON THE ASPHALT APPROACHES.
- INSTALL LIGHTING, STORM SEWER AND CULVERTS WITHIN WORK ZONE.
- REMOVE TEMPORARY WIDENING OUTSIDE OF CONSTRUCTION LIMITS ON USH 10.

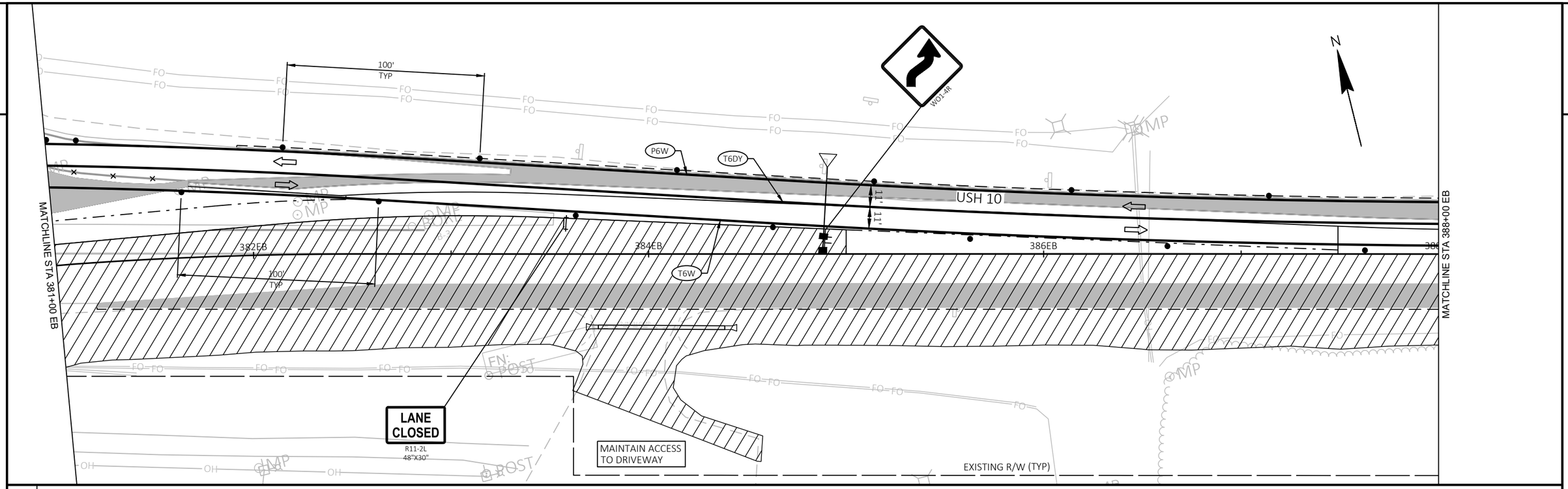
STAGE 4 TRAFFIC:

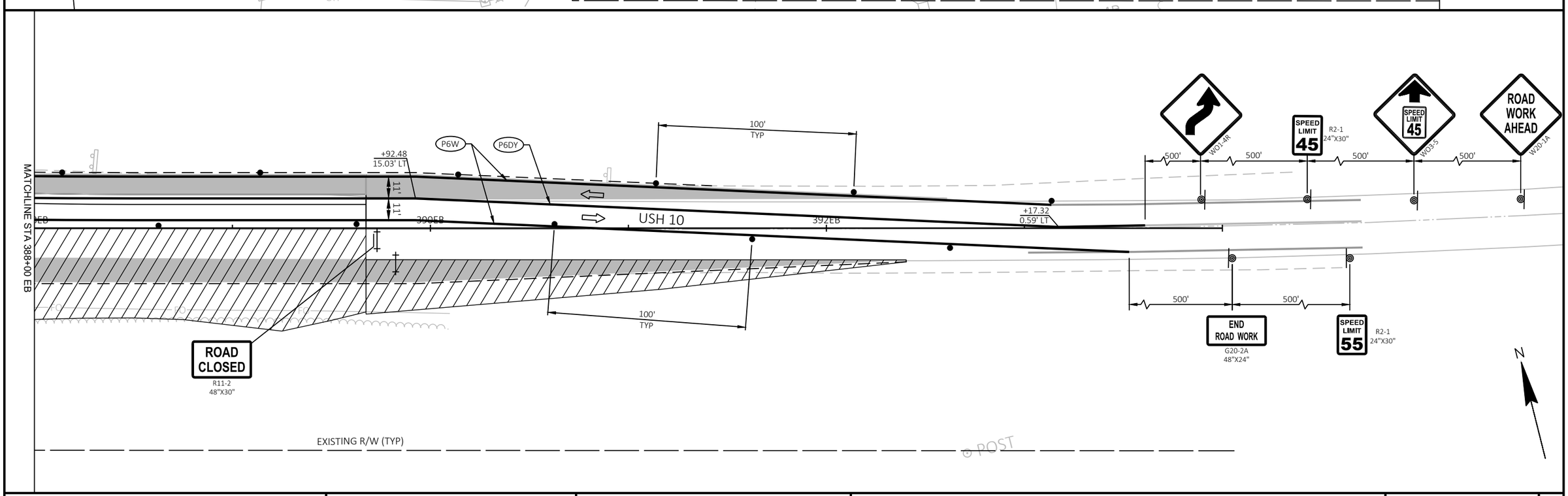
- SHIFT TRAFFIC ON USH 10 TO NEW PAVEMENT CONSTRUCTED IN STAGE 3 AND TEMPORARY WIDENING.
- MAINTAIN TRAFFIC CONFIGURATION ON STH 25 FROM STAGE 3.
- MAINTAIN ACCESS TO ALL RESIDENCES AND BUSINESSES.



PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	STAGED CONSTRUCTION - STAGE 4	SHEET 47	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\025101-TC-STAGE 4.DWG
LAYOUT NAME - 01
PLOT DATE : 9/12/2025 2:44 PM
PLOT BY : CORY IHDE
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44





PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	STAGED CONSTRUCTION - STAGE 4	SHEET 48	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\025101-TC-STAGE 4.DWG
LAYOUT NAME - 02

PLOT DATE : 9/12/2025 2:44 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

PROPOSED R/W

T.L.E.

MATCHLINE STA 99+00 SB

MATCHLINE STA 101+00 SB

+61.70
121.06' LT

EXISTING R/W (TYP)

N

SIGN

100'
TYP

102SB

104SB

STH 25

38'

15'
TYP

100'

15'
TYP

11'

11'

T6W

T6DY

P6W

T6Y

T.L.E.

PROPOSED R/W

WO1-4L

EXISTING R/W (TYP)

MATCHLINE STA 105+00 SB

+08.25
161.31' LT

BLDG

LANE CLOSED
R11-2L
48"X30"

WO1-6
48"X24"

EXISTING R/W (TYP)

360' TAPER

100'
TYP

50'
TYP

500'

WO1-4L

R2-1
24"X30"

SPEED LIMIT 45

WO3-5

ROAD WORK AHEAD
W20-1A

MATCHLINE STA 105+00 SB

106SB

108SB

110SB

+47.26
0.00' LT

112SB

11'

11'

5'

STH 25

CHURCH AND SCHOOL LN

END ROAD WORK
G20-2A
48"X24"

SPEED LIMIT 55
R2-1
24"X30"

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	STAGED CONSTRUCTION - STAGE 4	SHEET 49	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\025101-TC-STAGE 4.DWG
LAYOUT NAME - 03

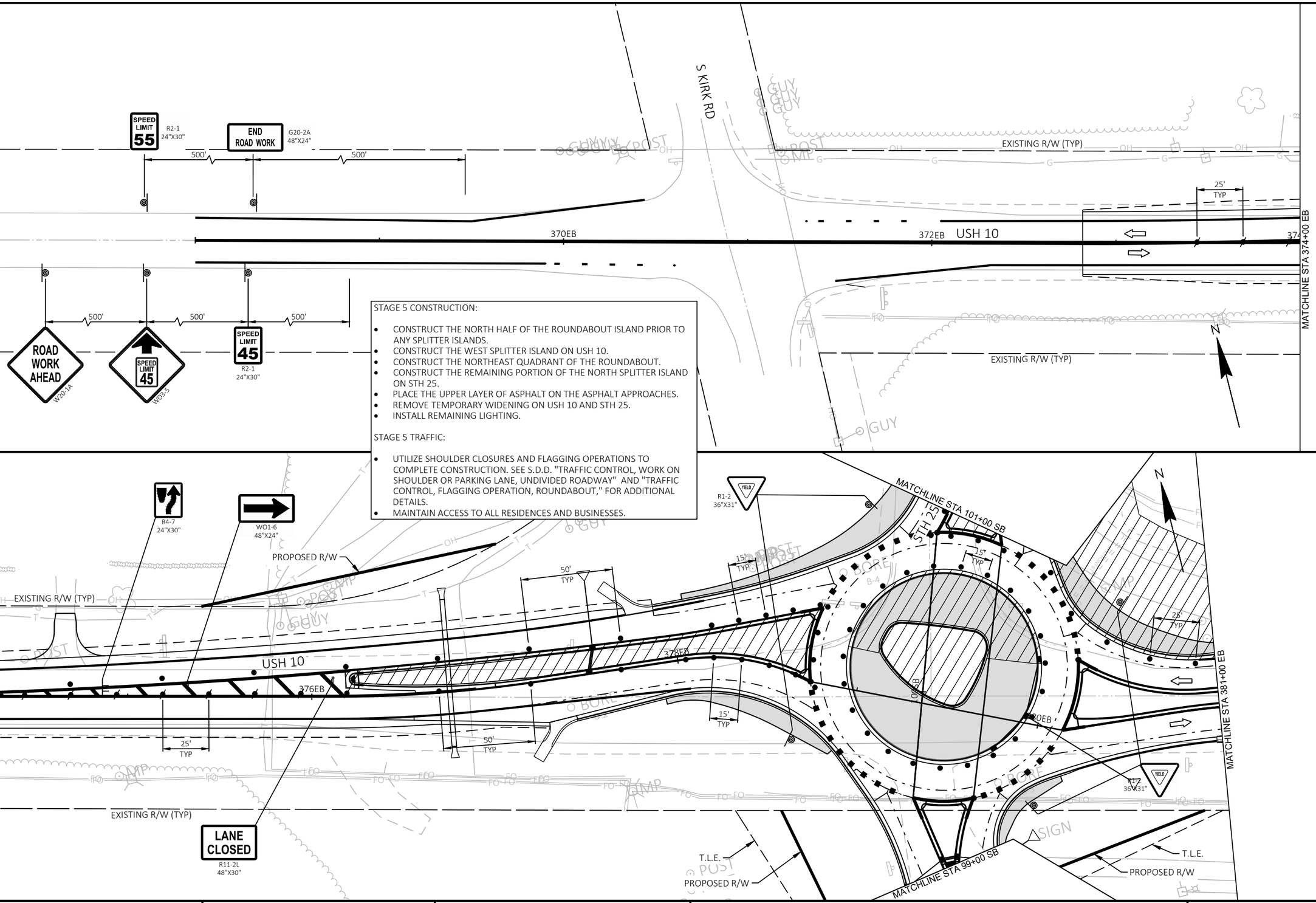
PLOT DATE : 9/12/2025 2:44 PM

PLOT BY : CORY IHDE

PLOT NAME :

PLOT SCALE : 1 IN:50 FT

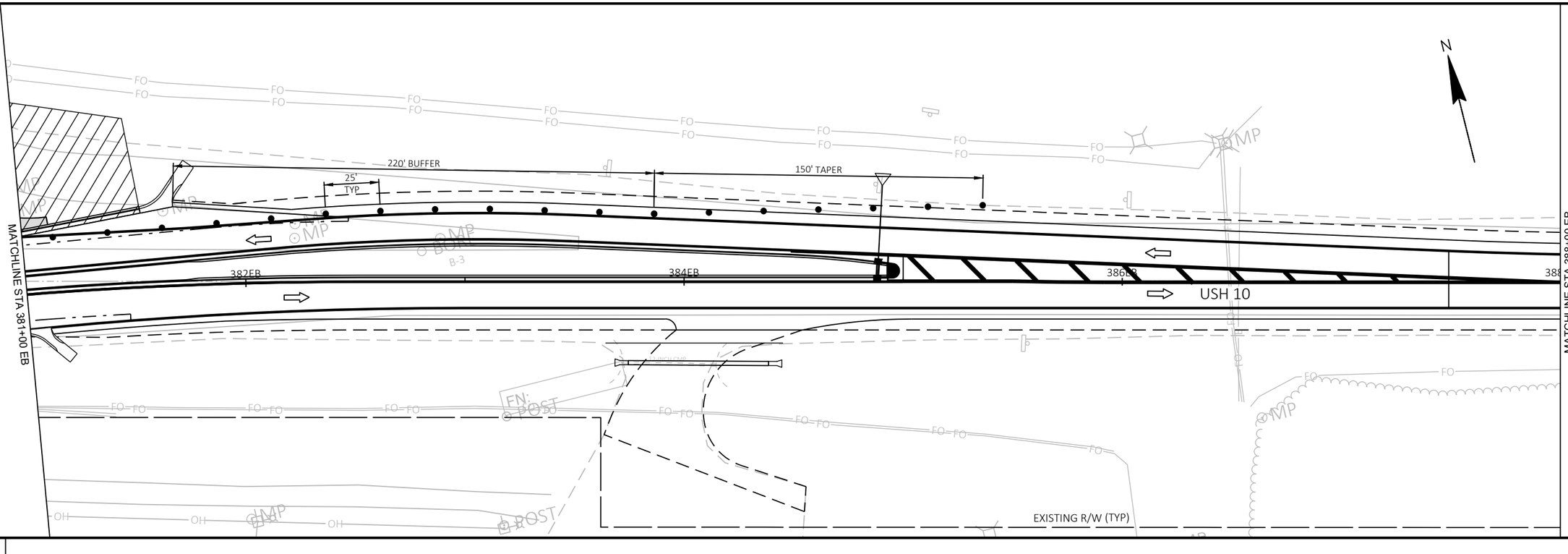
2

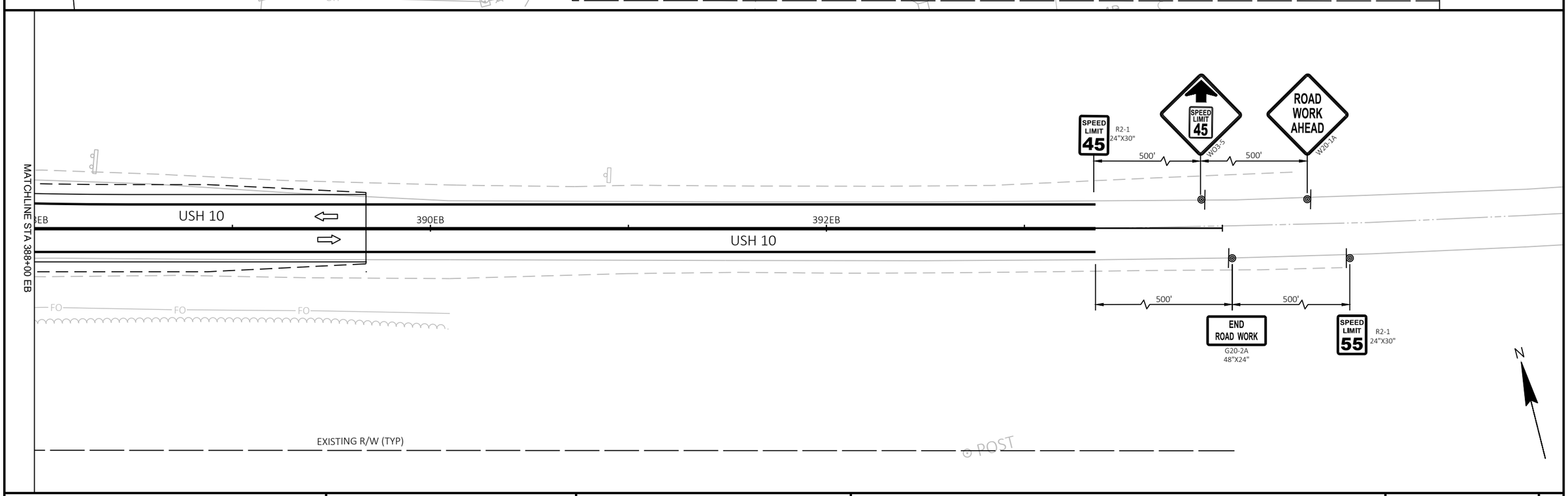


PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	STAGED CONSTRUCTION - STAGE 5	SHEET 50	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\025101-TC-STAGE 5.DWG
LAYOUT NAME - 01
PLOT DATE : 7/31/2025 3:23 PM
PLOT BY : ED OCHS
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

2





2

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	STAGED CONSTRUCTION - STAGE 5	SHEET 51	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\025101-TC-STAGE 5.DWG
LAYOUT NAME - 02

PLOT DATE : 7/31/2025 3:23 PM PLOT BY : ED OCHS PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

T.L.E.
PROPOSED R/W
MATCHLINE STA 99+00 SB
MATCHLINE STA 101+00 SB
15' TYP
25' TYP
25' TYP
25' TYP
102SB
104SB
STH 25
EXISTING R/W (TYP)
LANE CLOSED
R11-2L
48"X30"
WO1-6
48"X24"
SIGN
N
MATCHLINE STA 105+00 SB
T.L.E.
PROPOSED R/W
EXISTING R/W (TYP)
BLDG
BLDG

MATCHLINE STA 105+00 SB
25' TYP
25' TYP
106SB
108SB
110SB
112SB
STH 25
EXISTING R/W (TYP)
R4-7
24"X30"
SIGNPOST
CHURCH AND SCHOOL LN
POST
R2-1
24"X30"
SPEED LIMIT 45
WO3-5
SPEED LIMIT 45
ROAD WORK AHEAD
W20-1A
500'
500'
500'
500'
500'
END ROAD WORK
G20-2A
48"X24"
SPEED LIMIT 55
R2-1
24"X30"
N

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	STAGED CONSTRUCTION - STAGE 5	SHEET 52	E

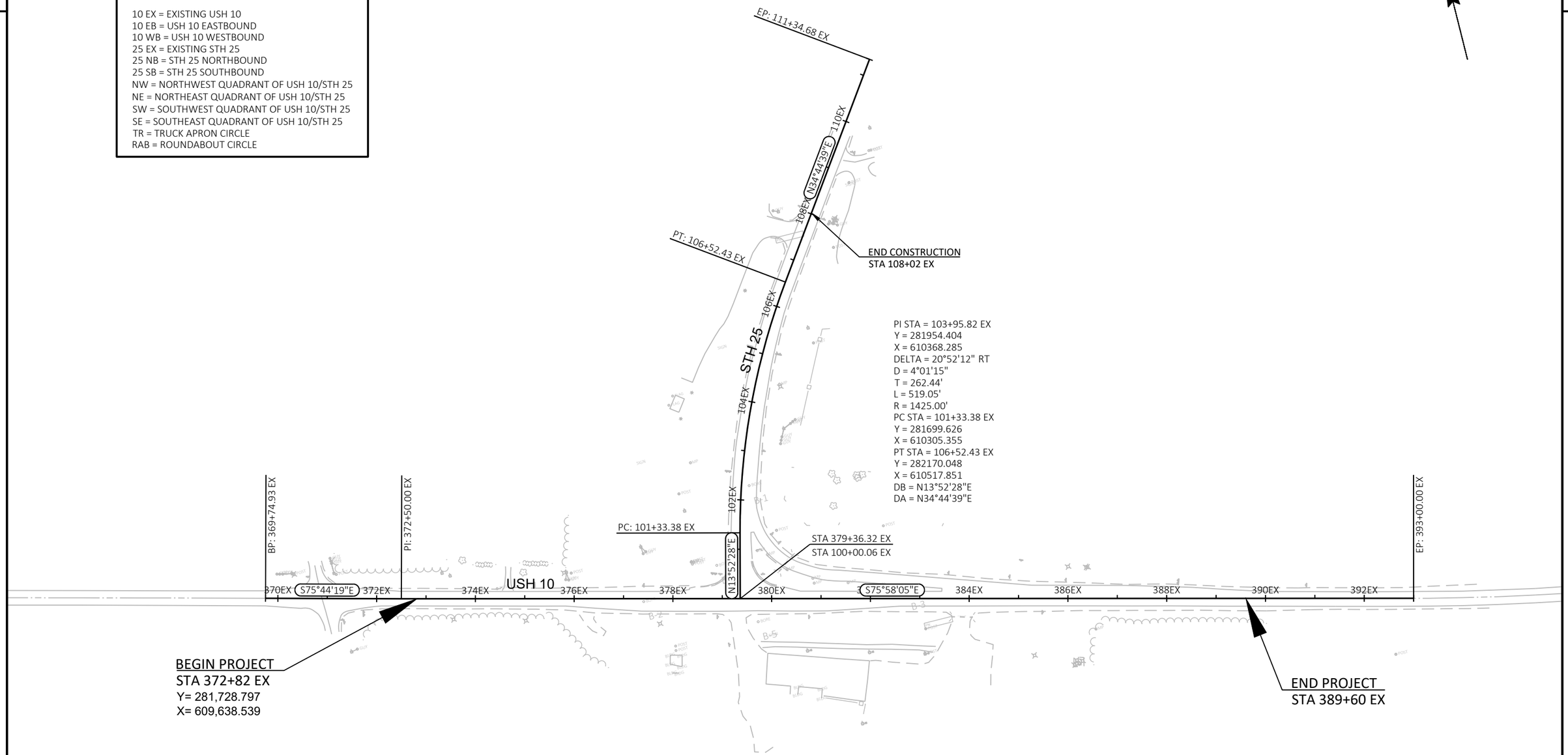
FILE NAME : O:\PDS\C3D\15300505\SHEETS\025101-TC-STAGE 5.DWG
LAYOUT NAME - 03

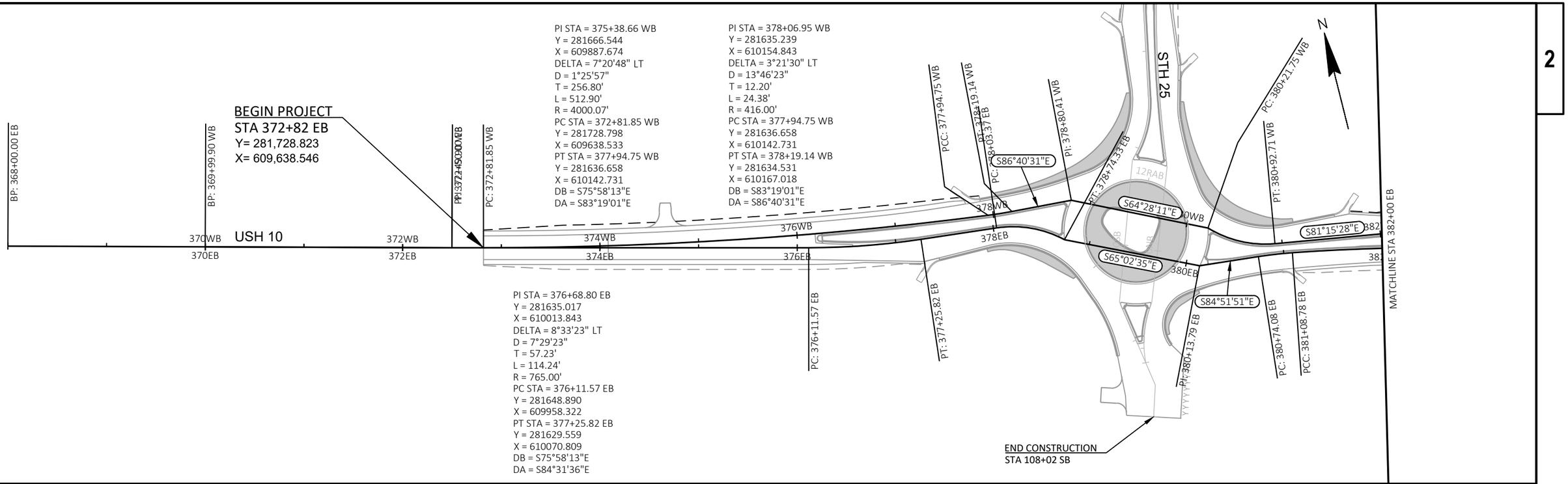
PLOT DATE : 7/31/2025 3:23 PM PLOT BY : ED OCHS PLOT NAME : PLOT SCALE : 1 IN:50 FT

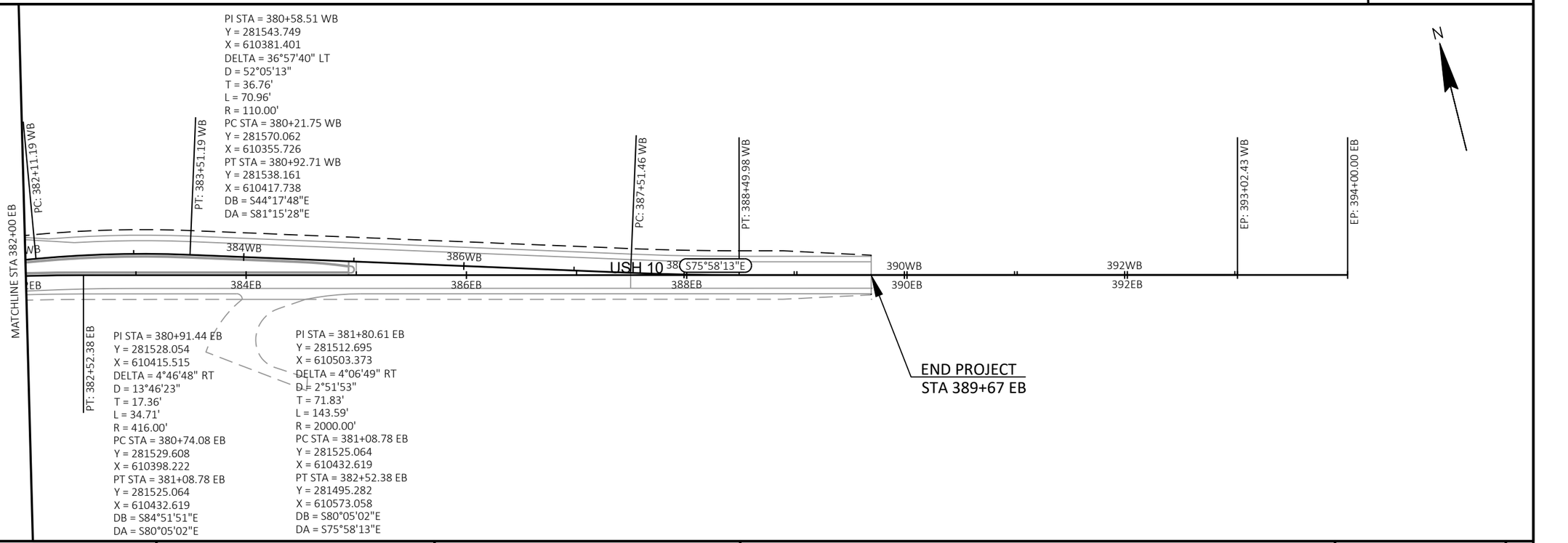
2

ALIGNMENT LEGEND

10 EX = EXISTING USH 10
10 EB = USH 10 EASTBOUND
10 WB = USH 10 WESTBOUND
25 EX = EXISTING STH 25
25 NB = STH 25 NORTHBOUND
25 SB = STH 25 SOUTHBOUND
NW = NORTHWEST QUADRANT OF USH 10/STH 25
NE = NORTHEAST QUADRANT OF USH 10/STH 25
SW = SOUTHWEST QUADRANT OF USH 10/STH 25
SE = SOUTHEAST QUADRANT OF USH 10/STH 25
TR = TRUCK APRON CIRCLE
RAB = ROUNDABOUT CIRCLE

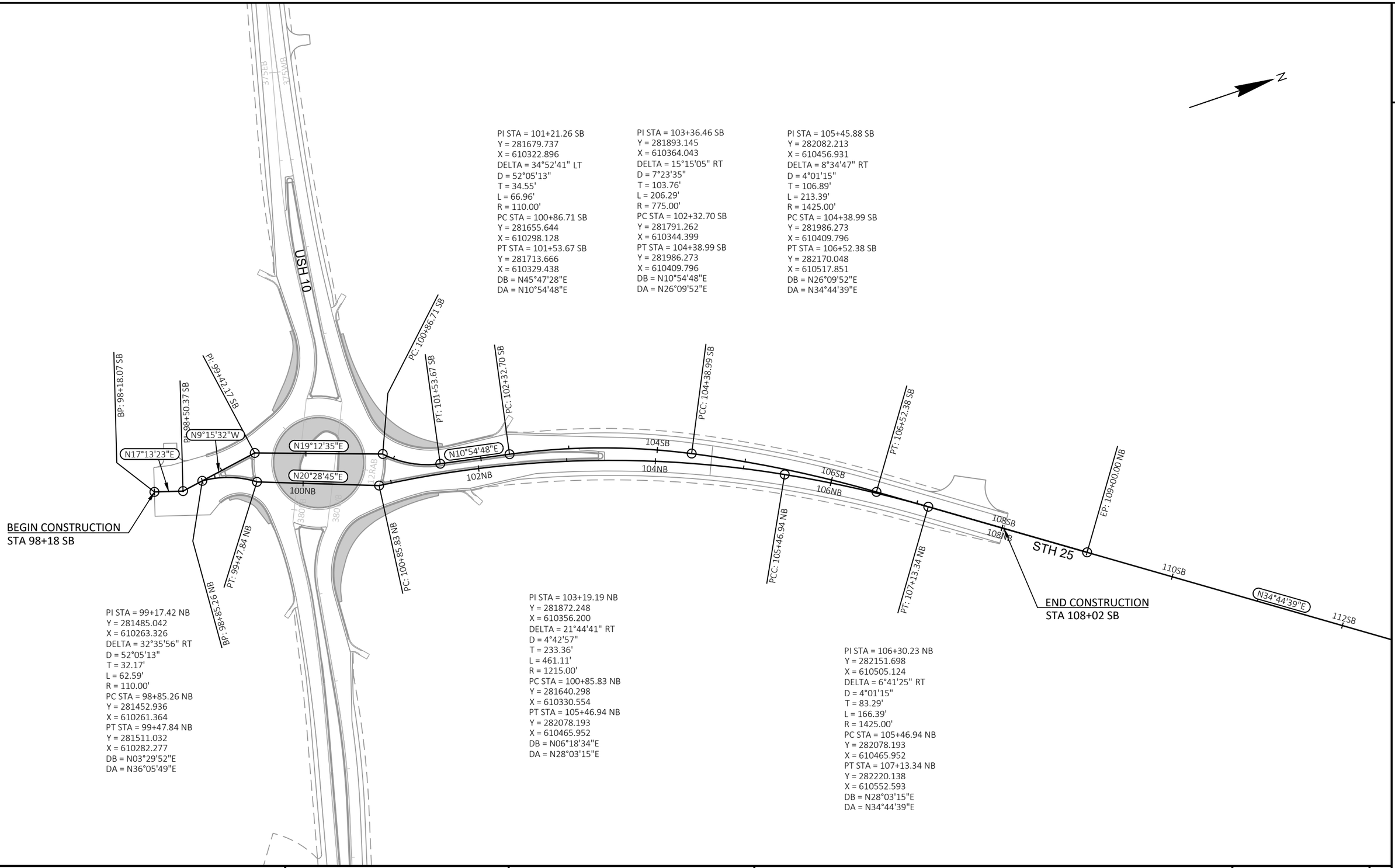






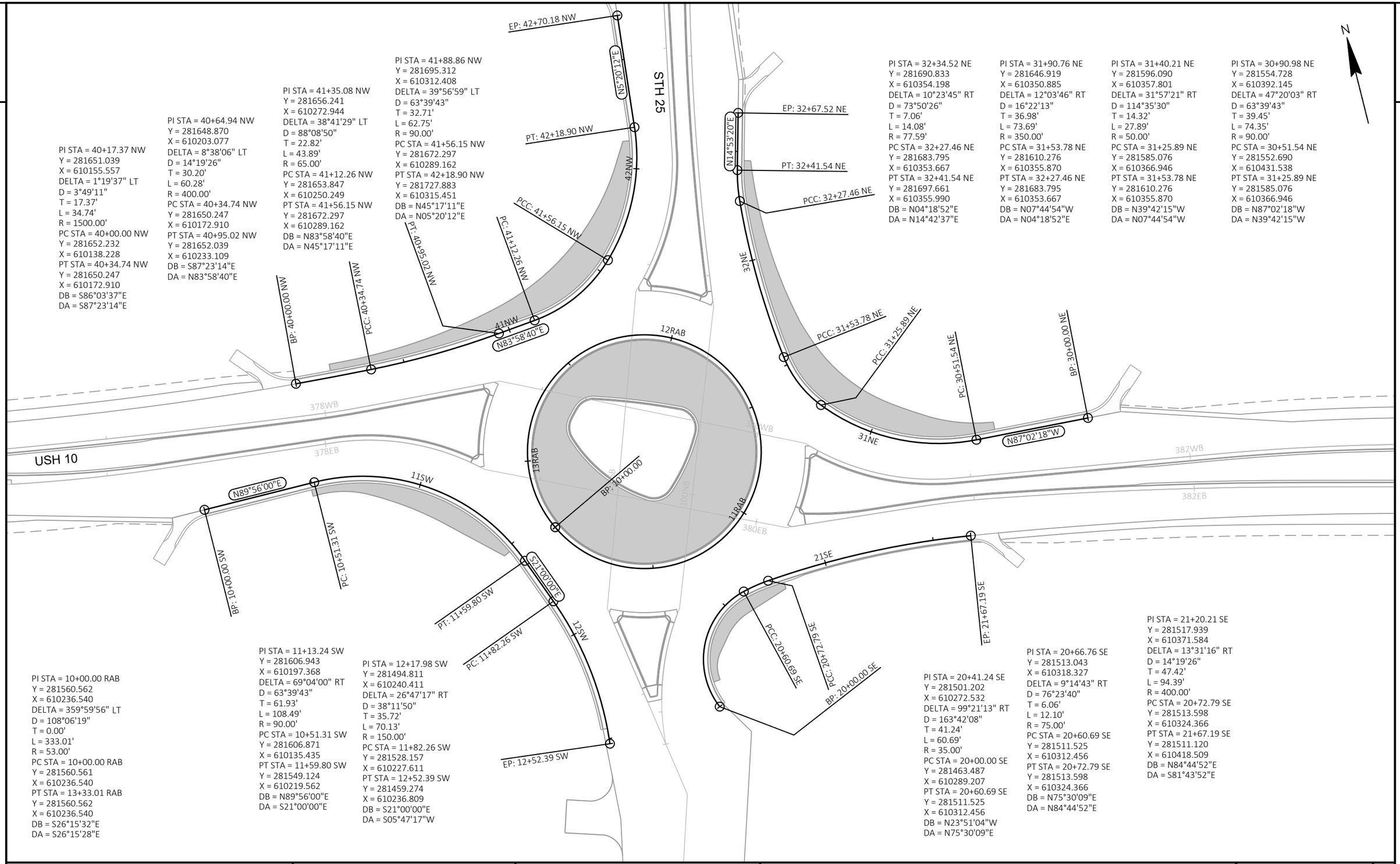
PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	ALIGNMENT - PROPOSED	SHEET 54	E

2



PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	ALIGNMENT - PROPOSED	SHEET 55	E

2



PI STA = 40+17.37 NW
Y = 281651.039
X = 610155.557
DELTA = 1°19'37" LT
D = 3°49'11"
T = 17.37'
L = 34.74'
R = 1500.00'
PC STA = 40+00.00 NW
Y = 281652.232
X = 610138.228
PT STA = 40+34.74 NW
Y = 281650.247
X = 610172.910
DB = S86°03'37"E
DA = S87°23'14"E

PI STA = 40+64.94 NW
Y = 281648.870
X = 610203.077
DELTA = 8°38'06" LT
D = 14°19'26"
T = 30.20'
L = 60.28'
R = 400.00'
PC STA = 40+34.74 NW
Y = 281650.247
X = 610172.910
PT STA = 40+95.02 NW
Y = 281652.039
X = 610233.109
DB = S87°23'14"E
DA = N83°58'40"E

PI STA = 41+35.08 NW
Y = 281656.241
X = 610272.944
DELTA = 38°41'29" LT
D = 88°08'50"
T = 22.82'
L = 43.89'
R = 65.00'
PC STA = 41+12.26 NW
Y = 281653.847
X = 610250.249
PT STA = 41+56.15 NW
Y = 281672.297
X = 610289.162
DB = N83°58'40"E
DA = N45°17'11"E

PI STA = 41+88.86 NW
Y = 281695.312
X = 610312.408
DELTA = 39°56'59" LT
D = 63°39'43"
T = 32.71'
L = 62.75'
R = 90.00'
PC STA = 41+56.15 NW
Y = 281672.297
X = 610289.162
PT STA = 42+18.90 NW
Y = 281727.883
X = 610315.451
DB = N45°17'11"E
DA = N05°20'12"E

PI STA = 32+34.52 NE
Y = 281690.833
X = 610354.198
DELTA = 10°23'45" RT
D = 73°50'26"
T = 7.06'
L = 14.08'
R = 77.59'
PC STA = 32+27.46 NE
Y = 281683.795
X = 610353.667
PT STA = 32+41.54 NE
Y = 281697.661
X = 610355.990
DB = N04°18'52"E
DA = N14°42'37"E

PI STA = 31+90.76 NE
Y = 281646.919
X = 610350.885
DELTA = 12°03'46" RT
D = 16°22'13"
T = 36.98'
L = 73.69'
R = 350.00'
PC STA = 31+53.78 NE
Y = 281610.276
X = 610355.870
PT STA = 32+27.46 NE
Y = 281683.795
X = 610353.667
DB = N07°44'54"W
DA = N04°18'52"E

PI STA = 31+40.21 NE
Y = 281596.090
X = 610357.801
DELTA = 31°57'21" RT
D = 114°35'30"
T = 14.32'
L = 27.89'
R = 50.00'
PC STA = 31+25.89 NE
Y = 281585.076
X = 610366.946
PT STA = 31+53.78 NE
Y = 281610.276
X = 610355.870
DB = N39°42'15"W
DA = N07°44'54"W

PI STA = 30+90.98 NE
Y = 281554.728
X = 610392.145
DELTA = 47°20'03" RT
D = 63°39'43"
T = 39.45'
L = 74.35'
R = 90.00'
PC STA = 30+51.54 NE
Y = 281552.690
X = 610431.538
PT STA = 31+25.89 NE
Y = 281585.076
X = 610366.946
DB = N87°02'18"W
DA = N39°42'15"W

PI STA = 10+00.00 RAB
Y = 281560.562
X = 610236.540
DELTA = 359°59'56" LT
D = 108°06'19"
T = 0.00'
L = 333.01'
R = 53.00'
PC STA = 10+00.00 RAB
Y = 281560.561
X = 610236.540
PT STA = 13+33.01 RAB
Y = 281560.562
X = 610236.540
DB = S26°15'32"E
DA = S26°15'28"E

PI STA = 11+13.24 SW
Y = 281606.943
X = 610197.368
DELTA = 69°04'00" RT
D = 63°39'43"
T = 61.93'
L = 108.49'
R = 90.00'
PC STA = 10+51.31 SW
Y = 281606.871
X = 610135.435
PT STA = 11+59.80 SW
Y = 281549.124
X = 610219.562
DB = N89°56'00"E
DA = S21°00'00"E

PI STA = 12+17.98 SW
Y = 281494.811
X = 610240.411
DELTA = 26°47'17" RT
D = 38°11'50"
T = 35.72'
L = 70.13'
R = 150.00'
PC STA = 11+82.26 SW
Y = 281528.157
X = 610227.611
PT STA = 12+52.39 SW
Y = 281459.274
X = 610236.809
DB = S21°00'00"E
DA = S05°47'17"W

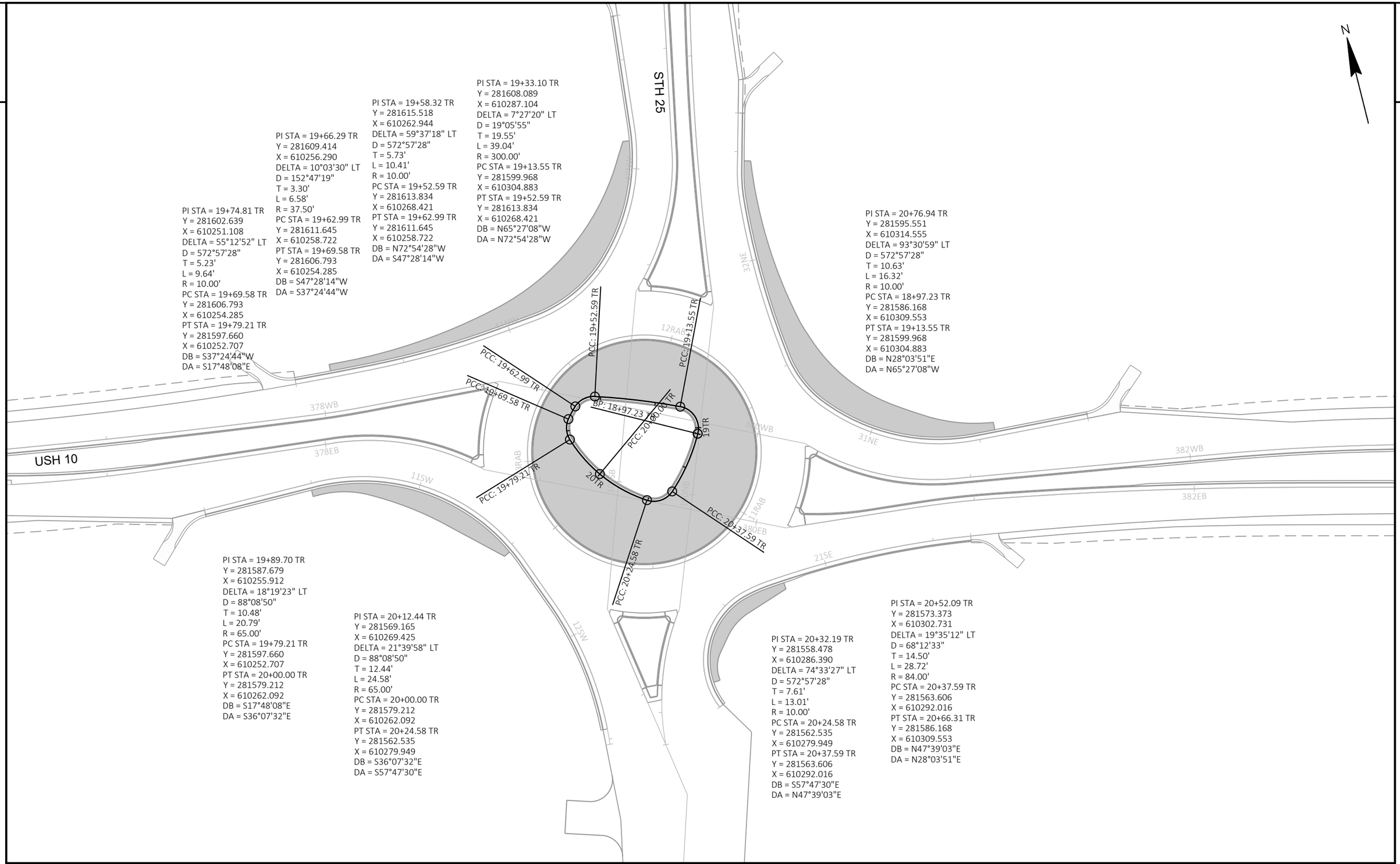
PI STA = 20+41.24 SE
Y = 281501.202
X = 610272.532
DELTA = 99°21'13" RT
D = 163°42'08"
T = 41.24'
L = 60.69'
R = 35.00'
PC STA = 20+00.00 SE
Y = 281463.487
X = 610289.207
PT STA = 20+60.69 SE
Y = 281511.525
X = 610312.456
DB = N23°51'04"W
DA = N75°30'09"E

PI STA = 20+66.76 SE
Y = 281513.043
X = 610318.327
DELTA = 9°14'43" RT
D = 76°23'40"
T = 6.06'
L = 12.10'
R = 75.00'
PC STA = 20+60.69 SE
Y = 281511.525
X = 610312.456
PT STA = 20+72.79 SE
Y = 281513.598
X = 610324.366
DB = N75°30'09"E
DA = N84°44'52"E

PI STA = 21+20.21 SE
Y = 281517.939
X = 610371.584
DELTA = 13°31'16" RT
D = 14°19'26"
T = 47.42'
L = 94.39'
R = 400.00'
PC STA = 20+72.79 SE
Y = 281513.598
X = 610324.366
PT STA = 21+67.19 SE
Y = 281511.120
X = 610418.509
DB = N84°44'52"E
DA = S81°43'52"E

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	ALIGNMENT - PROPOSED	SHEET 56	E

2



PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	ALIGNMENT - PROPOSED	SHEET 57	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\027205-AD.DWG
LAYOUT NAME - 04

PLOT DATE : 7/31/2025 3:27 PM PLOT BY : ED OCHS PLOT NAME : PLOT SCALE : 1 IN:40 FT

Estimate Of Quantities

1530-05-75

Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	4.000	4.000
0004	201.0205	Grubbing	STA	4.000	4.000
0006	203.0100	Removing Small Pipe Culverts	EACH	2.000	2.000
0008	204.0115	Removing Asphaltic Surface Butt Joints	SY	625.000	625.000
0010	204.0150	Removing Curb & Gutter	LF	162.000	162.000
0012	204.0195	Removing Concrete Bases	EACH	1.000	1.000
0014	204.0220	Removing Inlets	EACH	1.000	1.000
0016	204.0245	Removing Storm Sewer (size) 01. 12-Inch	LF	33.000	33.000
0018	205.0100	Excavation Common	CY	13,261.000	13,261.000
0020	208.0100	Borrow	CY	202.000	202.000
0022	213.0100	Finishing Roadway (project) 01. 1530-05-75	EACH	1.000	1.000
0024	305.0110	Base Aggregate Dense 3/4-Inch	TON	2,083.000	2,083.000
0026	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	13,398.000	13,398.000
0028	405.0100	Coloring Concrete WisDOT Red	CY	363.000	363.000
0030	415.0090	Concrete Pavement 9-Inch	SY	6,569.000	6,569.000
0032	415.2010	Concrete Truck Apron 12-inch	SY	1,085.000	1,085.000
0034	415.4100	Concrete Pavement Joint Filling	SY	6,569.000	6,569.000
0036	455.0605	Tack Coat	GAL	750.000	750.000
0038	460.2000	Incentive Density HMA Pavement	DOL	940.000	940.000
0040	460.6224	HMA Pavement 4 MT 58-28 S	TON	1,160.000	1,160.000
0042	460.6444	HMA Pavement 4 MT 58-34 H	TON	306.000	306.000
0044	465.0110	Asphaltic Surface Patching	TON	120.000	120.000
0046	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	39.000	39.000
0048	465.0125	Asphaltic Surface Temporary	TON	1,496.000	1,496.000
0050	465.0315	Asphaltic Flumes	SY	138.000	138.000
0052	465.0520	Asphaltic Rumble Strips, Shoulder	LF	2,930.000	2,930.000
0054	465.0560	Asphaltic Rumble Strips, Centerline	LF	620.000	620.000
0056	520.1012	Apron Endwalls for Culvert Pipe 12-Inch	EACH	2.000	2.000
0058	520.1018	Apron Endwalls for Culvert Pipe 18-Inch	EACH	2.000	2.000
0060	520.3318	Culvert Pipe Class III-A 18-Inch	LF	64.000	64.000
0062	522.0424	Culvert Pipe Reinforced Concrete Class IV 24-Inch	LF	184.000	184.000
0064	522.1012	Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	EACH	3.000	3.000
0066	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	4.000	4.000
0068	601.0405	Concrete Curb & Gutter 18-Inch Type A	LF	163.000	163.000
0070	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	1,135.000	1,135.000
0072	601.0551	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type A	LF	1,872.000	1,872.000
0074	601.0581	Concrete Curb & Gutter 4-Inch Sloped 30-Inch Type R	LF	248.000	248.000
0076	602.0405	Concrete Sidewalk 4-Inch	SF	9,485.000	9,485.000
0078	606.0200	Riprap Medium	CY	42.000	42.000
0080	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	364.000	364.000
0082	611.0606	Inlet Covers Type B	EACH	1.000	1.000
0084	611.0624	Inlet Covers Type H	EACH	2.000	2.000
0086	611.0627	Inlet Covers Type HM	EACH	6.000	6.000
0088	611.0639	Inlet Covers Type H-S	EACH	2.000	2.000
0090	611.0652	Inlet Covers Type T	EACH	3.000	3.000
0092	611.3004	Inlets 4-FT Diameter	EACH	1.000	1.000
0094	611.3220	Inlets 2x2-FT	EACH	1.000	1.000
0096	611.3225	Inlets 2x2.5-FT	EACH	3.000	3.000
0098	611.3230	Inlets 2x3-FT	EACH	9.000	9.000

1530-05-75

Line	Item	Item Description	Unit	Total	Qty
0100	611.8120.S	Cover Plates Temporary	EACH	6.000	6.000
0102	618.0100	Maintenance and Repair of Haul Roads (project) 01. 1530-05-75	EACH	1.000	1.000
0104	619.1000	Mobilization	EACH	1.000	1.000
0106	620.0300	Concrete Median Sloped Nose	SF	505.000	505.000
0108	624.0100	Water	MGAL	240.000	240.000
0110	625.0100	Topsoil	SY	17,800.000	17,800.000
0112	628.1504	Silt Fence	LF	6,700.000	6,700.000
0114	628.1520	Silt Fence Maintenance	LF	6,700.000	6,700.000
0116	628.1905	Mobilizations Erosion Control	EACH	5.000	5.000
0118	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000
0120	628.2008	Erosion Mat Urban Class I Type B	SY	17,800.000	17,800.000
0122	628.7005	Inlet Protection Type A	EACH	13.000	13.000
0124	628.7015	Inlet Protection Type C	EACH	12.000	12.000
0126	628.7504	Temporary Ditch Checks	LF	75.000	75.000
0128	628.7555	Culvert Pipe Checks	EACH	10.000	10.000
0130	629.0210	Fertilizer Type B	CWT	12.500	12.500
0132	630.0140	Seeding Mixture No. 40	LB	325.000	325.000
0134	630.0170	Seeding Mixture No. 70	LB	5.000	5.000
0136	630.0200	Seeding Temporary	LB	128.000	128.000
0138	630.0400	Seeding Nurse Crop	LB	2.000	2.000
0140	630.0500	Seed Water	MGAL	310.000	310.000
0142	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	7.000	7.000
0144	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	30.000	30.000
0146	637.2110	Signs Type II Non Reflective	SF	151.290	151.290
0148	637.2230	Signs Type II Reflective F	SF	57.930	57.930
0150	638.2602	Removing Signs Type II	EACH	27.000	27.000
0152	638.3000	Removing Small Sign Supports	EACH	27.000	27.000
0154	642.5201	Field Office Type C	EACH	1.000	1.000
0156	643.0300	Traffic Control Drums	DAY	17,150.000	17,150.000
0158	643.0420	Traffic Control Barricades Type III	DAY	2,030.000	2,030.000
0160	643.0705	Traffic Control Warning Lights Type A	DAY	4,050.000	4,050.000
0162	643.0715	Traffic Control Warning Lights Type C	DAY	4,680.000	4,680.000
0164	643.0900	Traffic Control Signs	DAY	22,100.000	22,100.000
0166	643.0920	Traffic Control Covering Signs Type II	EACH	10.000	10.000
0168	643.1050	Traffic Control Signs PCMS	DAY	42.000	42.000
0170	643.3165	Temporary Marking Line Paint 6-Inch	LF	30,952.000	30,952.000
0172	643.3180	Temporary Marking Line Removable Tape 6-Inch	LF	1,528.000	1,528.000
0174	643.3805	Temporary Marking Stop Line Paint 18-Inch	LF	49.000	49.000
0176	643.3850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	34.000	34.000
0178	643.5000	Traffic Control	EACH	1.000	1.000
0180	645.0120	Geotextile Type HR	SY	140.000	140.000
0182	646.2040	Marking Line Grooved Wet Ref Epoxy 6-Inch	LF	15,982.000	15,982.000
0184	646.4040	Marking Line Grooved Wet Ref Epoxy 10-Inch	LF	246.000	246.000
0186	646.6320	Marking Dotted Extension Epoxy 18-Inch	LF	309.000	309.000
0188	646.7120	Marking Diagonal Epoxy 12-Inch	LF	298.000	298.000
0190	646.8120	Marking Curb Epoxy	LF	40.000	40.000
0192	646.8220	Marking Island Nose Epoxy	EACH	4.000	4.000
0194	646.9002	Marking Removal Line 6-Inch	LF	6,700.000	6,700.000
0196	650.4000	Construction Staking Storm Sewer	EACH	19.000	19.000

1530-05-75

Line	Item	Item Description	Unit	Total	Qty
0198	650.4500	Construction Staking Subgrade	LF	6,818.000	6,818.000
0200	650.5000	Construction Staking Base	LF	3,861.000	3,861.000
0202	650.6000	Construction Staking Pipe Culverts	EACH	2.000	2.000
0204	650.7000	Construction Staking Concrete Pavement	LF	2,957.000	2,957.000
0206	650.8501	Construction Staking Electrical Installations (project) 01. 1530-05-75	EACH	1.000	1.000
0208	650.9911	Construction Staking Supplemental Control (project) 01. 1530-05-75	EACH	1.000	1.000
0210	650.9920	Construction Staking Slope Stakes	LF	6,863.000	6,863.000
0212	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	1,190.000	1,190.000
0214	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	14.000	14.000
0216	652.0605	Conduit Special 2-Inch	LF	290.000	290.000
0218	653.0164	Pull Boxes Non-Conductive 24x42-Inch	EACH	17.000	17.000
0220	654.0105	Concrete Bases Type 5	EACH	13.000	13.000
0222	654.0230	Concrete Control Cabinet Bases Type L30	EACH	1.000	1.000
0224	655.0610	Electrical Wire Lighting 12 AWG	LF	10,210.000	10,210.000
0226	656.0201	Electrical Service Meter Breaker Pedestal (location) 01. Station 12+59 'RAB', 60.1' Rt	EACH	1.000	1.000
0228	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	13.000	13.000
0230	657.0322	Poles Type 5-Aluminum	EACH	13.000	13.000
0232	657.0715	Luminaire Arms Truss Type 4 1/2-Inch Clamp 15-FT	EACH	13.000	13.000
0234	659.1115	Luminaires Utility LED A	EACH	13.000	13.000
0236	659.2130	Lighting Control Cabinets 120/240 30-Inch	EACH	1.000	1.000
0238	682.0100	Salvage Geodetic Survey Disk	EACH	1.000	1.000
0240	682.0200	Geodetic Survey Monument	EACH	1.000	1.000
0242	690.0150	Sawing Asphalt	LF	219.000	219.000
0244	690.0250	Sawing Concrete	LF	63.000	63.000
0246	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	1,975.000	1,975.000
0248	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	400.000	400.000
0250	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	800.000	800.000
0252	SPV.0060	Special 01. Temporary Lighting	EACH	1.000	1.000
0254	SPV.0060	Special 02. Salvaging Solar Powered Flashing Beacons	EACH	1.000	1.000
0256	SPV.0090	Special 01. Cure and Seal Treatment, Concrete Curb and Gutter	LF	3,418.000	3,418.000
0258	SPV.0090	Special 02. Filling Rumble Strips	LF	1,150.000	1,150.000
0260	SPV.0165	Special 01. Cure and Seal Treatment, Concrete Sidewalk	SF	9,485.000	9,485.000

3

CLEARING AND GRUBBING

CATEGORY	STATION	TO	STATION	LOCATION	201.0105 CLEARING STA	201.0205 GRUBBING STA
0010	372+83	-	375+55	USH 10 RT	4	4
				TOTAL 0010	4	4

TEMPORARY STORM SEWER REMOVAL

CATEGORY	STATION	LOCATION	204.0220 REMOVING INLETS EACH	204.0245.01 REMOVING STORM SEWER (SIZE) (01. 12-INCH) LF	REMARKS
0010	379+61	USH 10	1	0	TEMPORARY INLET 28
0010	379+61	USH 10	0	33	TEMPORARY PIPE 27-28
		TOTAL 0010	1	33	

3

PIPE REMOVALS

CATEGORY	STATION	LOCATION	203.0100 REMOVING SMALL PIPE CULVERTS EACH	REMARKS
0010	380+15	USH 10 LT	1	47' OF 18" CMCP
0010	383+95	USH 10 RT	1	43' OF 12" CMCP
		TOTAL 0010	2	

BUTT JOINT

CATEGORY	STATION	TO	STATION	LOCATION	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	REMARKS
0010	373+58	-	374+08	USH 10	190	STAGE 5
0010	384+49	-	384+99	USH 10	190	STAGE 5
0010	104+62	-	105+12	STH 25	245	STAGE 5
				TOTAL 0010	625	

REMOVING CURB AND GUTTER

CATEGORY	LOCATION	204.0150 REMOVING CURB & GUTTER LF	REMARKS
0010	NW 10/25 INTERSECTION	87	STAGE 1
0010	NE 10/25 INTERSECTION	75	STAGE 2
	TOTAL 0010	162	

REMOVING CONCRETE BASES

CATEGORY	STATION	LOCATION	204.0195 REMOVING CONCRETE BASES EACH	REMARKS
0010	100+50	STH 25 LT	1	EXISTING BASE FOR FLASHING STOP SIGN
		TOTAL 0010	1	

EARTHWORK SUMMARY

DIVISION	FROM/TO STATION	LOCATION	205.0100 COMMON EXCAVATION (1) CUT (2)	205.0100 COMMON EXCAVATION (1) EBS EXCAVATION (10%) (3)	SALVAGED/UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	UNEXPANDED FILL	EXPANDED FILL (6) FACTOR 1.15	MASS ORDINATE +/- (7)	WASTE	208.0100 BORROW	COMMENT
DIVISION 1												
STH 10 - STAGE 1	371+64/391+25	10	464	47	0	464	308	354	110	110	0	
STH 25 - STAGE 1	101+25/109+72.00	25	259	26	0	259	55	63	196	196	0	
DIVISION 1 SUBTOTAL			723	73	0	723	363	417	306	306	0	
DIVISION 2												
STH 10-EB - STAGE 2	372+81.96/389+67.483	10-EB	1,340	134	77	1,263	145	167	1,096	1,096	0	
STH 10-WB - STAGE 2	376+23.369/384+95.494	10-WB	1,300	130	0	1,300	807	928	372	372	0	
STH 25-SB - STAGE 2	98+50/108+02	25-SB	814	82	194	620	342	393	227	227	0	
STH 25-NB - STAGE 2	99+07.703/103+37.705	25-NB	152	16	58	94	270	311	-217	0	0	
STH 10/25 RAB - STAGE 2	11+27.106/12+72.71	RAB	17	2	0	17	95	109	-92	0	0	
DIVISION 2 SUBTOTAL			3,623	364	329	3,294	1,659	1,908	1,386	1,444	0	
DIVISION 3												
STH 10-WB - STAGE 3	376+23.369/384+95.494	10-WB	26	3	0	26	60	69	-43	0	43	
STH 25-SB - STAGE 3	100+86.71/101+00	25-SB	0	0	0	0	2	0	0	0	0	
STH 25-NB - STAGE 3	100+95/101+44.405	25-NB	0	0	0	0	11	13	-13	0	13	
STH 10/25 RAB - STAGE 3	11+50/13+00	RAB	9	1	9	0	127	146	-146	0	146	
DIVISION 3 SUBTOTAL			35	4	9	26	200	228	-202	0	202	
DIVISION 4												
STH 10-EB - STAGE 4	372+81.96/389+67.483	10-EB	4,303	431	956	3,347	72	83	3,264	3,264	0	
STH 10-WB - STAGE 4	376+23.369/384+95.494	10-WB	140	14	0	140	0	0	140	140	0	
STH 25-SB - STAGE 4	98+50/108+02	25-SB	2,108	211	503	1,605	449	516	1,089	1,089	0	
STH 25-NB - STAGE 4	99+07.703/103+37.705	25-NB	116	12	0	116	343	394	-278	0	0	
STH 10/25 RAB - STAGE 4	10+00.01/13+30	RAB	420	42	0	420	143	164	256	256	0	
DIVISION 4 SUBTOTAL			7,087	710	1,459	5,628	1,007	1,158	4,470	4,470	0	
DIVISION 5												
10-WB WEST- STAGE 5	372+50/377+72	10-WB WEST	178	18	65	113	20	23	90	90	0	
10-WB EAST- STAGE 5	381+71.00/391+50	10-WB-EAST	327	33	237	90	0	0	90	90	0	
25NB - STAGE 5	102+00.00/108+89.00	25-NB	78	8	60	18	0	0	18	18	0	
DIVISION 5 SUBTOTAL			583	59	362	221	20	23	198	198	0	
GRAND TOTAL			12,051	1,210	2,159	9,892	3,249	3,734	6,158	6,947	202	
TOTAL COMMON EXC			13,261									

NOTES:
(1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100
(2) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
(3) EBS EXCAVATION TO BE BACKFILLED WITH BORROW MATERIAL.
(4) SALVAGED/UNUSABLE PAVEMENT MATERIAL
(5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSUABLE PAVEMENT MATERIAL
(6) EXPANDED FILL FACTOR = 1.15
EXPANDED FILL = (UNEXPANDED FILL) * FILL FACTOR
(7) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.
(8) FACTORS USED TO COMPUTE ANTICIPATED WASTE AND THE COMPUTED WASTE VOLUME IDENTIFIED ARE FOR GENERAL INFORMATION ONLY.

BASE AGGREGATE

CATEGORY	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 MGAL	REMARKS
0010	371+53	-	377+32	USH 10	132	363	8	
0010	381+19	-	392+41	USH 10	258	670	14	
0010	100+50	-	109+72	STH 25	222	313	9	
				STAGE 1 SUBTOTAL	612	1,346	31	
0010	371+45	-	377+88	USH 10	135	1,270	22	
0010	371+45	-	392+83	USH 10	256	2,298	39	
0010	100+95	-	108+90	STH 25	173	1,171	21	
				STAGE 2 SUBTOTAL	564	4,739	82	
0010	376+18		379+63	USH 10	--	319	5	
				STAGE 3 SUBTOTAL	0	319	5	
0010	372+82		378+96	USH 10	100	554	10	
0010	98+18		100+21	STH 25	--	1,066	16	
0010	379+79		389+68	USH 10	253	2,059	35	
0010	100+65		108+03	STH 25	128	1,548	26	
				STAGE 4 SUBTOTAL	481	5,227	87	
0010	372+82	-	378+68	USH 10	104	710	13	
0010	381+67	-	389+68	USH 10	173	376	9	
0010	99+90	-	108+03	STH 25	149	681	13	
				STAGE 5 SUBTOTAL	426	1,767	35	
				TOTAL 0010	2,083	13,398	240	

CONCRETE

CATEGORY	STATION	TO	STATION	LOCATION	405.0100 COLORING CONCRETE WISDOT RED CY	415.0090 CONCRETE PAVEMENT 9-INCH SY	415.2010 CONCRETE TRUCK APRON 12-INCH SY	415.4100 CONCRETE PAVEMENT JOINT FILLING SY	602.0405 CONCRETE SIDEWALK 4-INCH SF	620.0300 CONCRETE MEDIAN SLOPED NOSE SF	SPV.0165.01 SPECIAL (01. CURE AND SEAL TREATMENT, CONCRETE SIDEWALK) SF	REMARKS
0010	374+08	-	377+88	USH 10 - W LEG	19	886	57	886	--	--	--	
0010	371+45	-	387+49	USH 10 - E LEG	--	1,521	--	1,521	--	--	--	
0010	100+95	-	104+63	STH 25 - N LEG	--	804	--	804	--	--	--	
				STAGE 2 SUBTOTAL	19	3,211	57	3,211	0	0	0	
0010	376+18	-	379+63	USH 10	--	272	--	272	--	--	--	
				STAGE 3 SUBTOTAL	0	272	0	272	0	0	0	
0010	374+08	-	378+93	USH 10 - W LEG	23	157	69	157	--	--	--	
0010	98+93	-	100+21	STH 25 - S LEG	118	1,141	353	1,141	414	106	414	
0010	379+92	-	387+49	USH 10 - E LEG	11	1,106	33	1,106	4,252	160	4,252	
0010	100+65	-	104+63	STH 25 - N LEG	38	682	112	682	--	69	--	
0010	101+38		103+34	STH 25 - N LEG	--	--	--	--	1,291	--	1,291	
				STAGE 4 SUBTOTAL	190	3,086	567	3,086	5,957	335	5,957	
0010	376+25	-	378+75	USH 10 - W LEG	--	--	--	--	2,785	120	2,785	
0010	99+95	-	101+37	STH 25 - N LEG	154	--	461	--	--	50	--	
0010	100+93	-	101+38	STH 25 - N LEG	--	--	--	--	743	--	743	
				STAGE 5 SUBTOTAL	154	0	461	0	3,528	170	3,528	
				TOTAL 0010	363	6,569	1,085	6,569	9,485	505	9,485	

3

ASPHALT

CATEGORY	STATION	TO	STATION	LOCATION	455.0605 TACK COAT GAL	460.6224 HMA PAVEMENT 4 MT 58-28 S TON	460.6444 HMA PAVEMENT 4 MT 58-34 H TON	465.0110 ASPHALTIC SURFACE PATCHING TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	465.0125 ASPHALTIC SURFACE TEMPORARY TON	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
0010	371+53	-	377+32	USH 10 - W LEG	33	--	--	--	--	183	--	--
0010	100+50	-	109+72	STH 25 - N LEG	29	--	--	--	--	158	--	--
0010	381+19	-	392+41	USH 10 - E LEG	61	--	--	--	--	338	--	--
				STAGE 1 SUBTOTAL	123	0	0	0	0	679	0	0
0010	371+45	-	377+91	USH 10 - W LEG	24	--	--	20	--	131	--	--
0010	372+81	-	374+08	USH 10 - W LEG	25	70	--	--	--	--	--	--
0010	374+08	-	377+76	USH 10 - W LEG	11	57	--	--	--	--	--	--
0010	379+45	-	387+49	USH 10 - E LEG	85	--	--	--	--	472	186	--
0010	381+68		387+49	USH 10 - E LEG	16	85	--	--	--	--	--	--
0010	387+49	-	389+68	USH 10 - E LEG	42	118	--	20	--	--	16	--
0010	101+05	-	108+02	STH 25 - N LEG	7	--	--	--	--	39	--	--
0010	101+68	-	104+63	STH 25 - N LEG	7	38	--	20	--	--	--	--
0010	104+62	-	108+02	STH 25 - N LEG	64	179	--	--	--	--	17	--
				STAGE 2 SUBTOTAL	281	547	0	60	0	642	219	0
0010	376+18	-	379+63	USH 10	24	--	--	--	--	132	--	--
				STAGE 3 SUBTOTAL	24	0	0	0	0	132	0	0
0010	372+81	-	374+08	USH 10 - W LEG	34	67	--	20	--	43	--	--
0010	374+08	-	377+26	USH 10 - W LEG	8	43	--	--	--	--	--	--
0010	98+18	-	100+21	STH 25 - S LEG	--	--	--	--	14	--	--	63
0010	381+09	-	387+49	USH 10 - E LEG	60	219	--	--	--	--	--	--
0010	387+49	-	389+68	USH 10 - E LEG	--	--	--	20	--	--	--	--
0010	102+31	-	104+63	STH 25 - N LEG	82	284	--	--	25	--	--	--
0010	104+63	-	108+02	STH 25 - N LEG	--	--	--	20	--	--	--	--
				STAGE 4 SUBTOTAL	184	613	0	60	39	43	0	63
0010	372+82		374+08	USH 10 - W LEG	25	--	55	--	--	--	--	--
0010	387+49		389+67	USH 10 - E LEG	42	--	94	--	--	--	--	--
0010	104+62		108+02	STH 25 - N LEG	71	--	157	--	--	--	--	--
				STAGE 5 SUBTOTAL	138	0	306	0	0	0	0	0
				TOTAL 0010	750	1,160	306	120	39	1,496	219	63

RUMBLE STRIPS

CATEGORY	STATION	TO	STATION	LOCATION	465.0520 ASPHALTIC RUMBLE STRIPS, SHOULDER LF	465.0560 ASPHALTIC RUMBLE STRIPS, CENTERLINE LF	SPV.0090.02 SPECIAL (02. FILLING RUMBLE STRIPS) LF
0010	372+82	-	377+41	USH 10 W LEG	700	--	--
0010	381+48	-	393+36	USH 10 E LEG	1,550	150	--
0010	368+00	-	372+82	USH 10 W LEG	310	100	410
0010	381+48	-	393+36	USH 10 E LEG	370	370	740
				TOTAL 0010	2,930	620	1,150

CULVERT PIPE SUMMARY

STATION	LOCATION	520.1018 AEW FOR CULVERT PIPE 18-INCH EACH	520.3318 CULVERT PIPE CLASS III-A 18-INCH LF***	522.0424 CPRC CLASS IV 24-INCH LF	522.1024 AEW FOR CPRC 24-INCH EACH	650.6000 CONSTRUCTION STAKING PIPE CULVERTS	STEEL THICKNESS (INCHES)	INLET** ELEVATION	OUTLET** ELEVATION
376+75	10	-	-	80	2	1	-	796.81	796.28
101+40	25	-	-	104	2	1	-	794.61	794.33
384+06 RT	10	2	64	-	-	-	0.064	790.20	788.67
	TOTAL 0010	2	64	184	4	2			

**PIPE INVERT AT END OF PIPE FOR INFORMATION ONLY. FIELD VERIFY.
***LENGTH BASED ON THE USE OF CONCRETE PIPE WITH CONCRETE ENDWALLS. ADJUST PIPE LENGTH FOR OTHER MATERIAL TYPES.

STORM SEWER STRUCTURES

STRUCTURE	STATION	OFFSET*	LOCATION	520.1012 AEW FOR CULVERT PIPE 12-INCH EACH	522.1012 AEW FOR CPRC 12-INCH EACH	611.0606 INLET COVERS TYPE B EACH	611.0624 INLET COVERS TYPE H EACH	611.0627 INLET COVERS TYPE HM EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0652 INLET COVERS TYPE T EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3220 INLETS 2X2-FT EACH	611.3225 INLETS 2X2.5-FT EACH	611.3230 INLETS 2X3-FT EACH	650.4000 CONSTRUCTION STAKING STORM SEWER EACH
10	377+51.53	1.50' LT	10	-	-	-	-	-	1	-	-	-	-	1	1
11	377+55.20	13.52' LT	10	-	-	-	-	-	1	-	-	-	-	1	1
12	377+56.26	50.21' LT	10	-	1	-	-	-	-	-	-	-	-	-	1
13	384+88.17	1.50' LT	10	-	-	-	-	1	-	-	-	-	-	1	1
14	384+88.62	9.42' LT	10	-	-	-	-	1	-	-	-	-	-	1	1
15	384+90.52	43.87' LT	10	-	1	-	-	-	-	-	-	-	-	-	1
16	103+30.28	5.14' RT	25	-	-	-	-	1	-	-	-	-	-	1	1
17	103+30.28	12.70' RT	25	-	-	-	-	1	-	-	-	-	-	1	1
18	103+30.28	45.37' RT	25	-	1	-	-	-	-	-	-	-	-	-	1
19	379+47.44	99.43' RT	SOUTH LEG	-	-	-	-	1	-	-	-	-	-	1	1
20	379+63.13	81.14' RT	SOUTH LEG	-	-	-	1	-	-	-	-	-	-	1	1
21	379+70.27	78.32' RT	SOUTH LEG	-	-	-	1	-	-	-	-	-	-	1	1
22	379+93.60	75.90' RT	SOUTH LEG	-	-	-	-	1	-	-	1	-	-	-	1
23	380+06.85	62.28' RT	SOUTH LEG	1	-	-	-	-	-	-	-	-	-	-	1
24	380+45.12	31.86' RT	10	1	-	-	-	-	-	-	-	-	-	-	1
25	379+92.72	3.93' LT	10	-	-	-	-	-	-	1	-	-	1	-	1
26	379+78.78	16.57' RT	10	-	-	-	-	-	-	1	-	-	1	-	1
27	379+93.95	35.42' LT	10	-	-	-	-	-	-	1	-	-	1	-	1
28	379+60.89	38.88' LT	10	-	-	1	-	-	-	-	-	1		-	1
			TOTAL 0010	2	3	1	2	6	2	3	1	1	3	9	19

REMARKS:
STATIONS AND OFFSET ARE FROM 10 EB OR 25 SB ALIGNMENTS ARE TO CENTER OF STRUCTURE.
**RIM ELEV IS AT THE INLET COVER FLANGE LOCATION
***FOR STRUCTURES WITH SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE SUMP. FOR STRUCTURES WITHOUT SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE LOWEST PIPE FLOW LINE
****DEPTH = RIM ELEV - TOP OF STRUCTURE BASE ELEV - COVER HEIGHT - 6-INCH ADJUSTMENT RING HEIGHT

3

STORM SEWER PIPES

608.0412
STORM SEWER PIPE REINFORCED
CONCRETE CLASS IV 12-INCH

FROM	- TO	LOCATION	LF	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT
10	- 11	10	13	796.22	796.16	0.0050
11	- 12	10	37	796.06	795.87	0.0050
13	- 14	10	8	788.45	788.41	0.0050
14	- 15	10	35	788.31	788.14	0.0050
16	- 17	25	8	795.87	795.83	0.0050
17	- 18	25	33	795.73	795.57	0.0050
19	- 20	SOUTH LEG	24	796.49	796.42	0.0030
20	- 21	SOUTH LEG	8	796.32	796.29	0.0030
21	- 22	SOUTH LEG	23	796.19	796.12	0.0030
22	- 23	SOUTH LEG	19	796.02	795.96	0.0030
24	- 25	10	66	796.40	796.07	0.0050
25	- 26	10	25	796.62	796.50	0.0050
27	- 25	10	32	796.65	796.50	0.0050
27	- 28	10	33	796.85	796.75	0.0030
		TOTAL 0010	364			

TEMPORARY COVER PLATES

611.8120.S
COVER PLATES
TEMPORARY

CATEGORY	LOCATION	EACH	REMARKS
0010	STRUCTURE 25	1	STAGE 1
0010	STRUCTURE 10	1	STAGE 2
0010	STRUCTURE 11	1	STAGE 2
0010	STRUCTURE 27	1	STAGE 2
0010	STRUCTURE 13	1	STAGE 2
0010	STRUCTURE 14	1	STAGE 2
	TOTAL 0010	6	

3

CURB AND GUTTER

CATEGORY	STATION	TO	STATION	LOCATION	465.0315 ASPHALTIC FLUMES SY	601.0405 CONCRETE CURB & GUTTER 18-INCH TYPE A LF	601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A LF	601.0551 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A LF	601.0581 CONCRETE CURB & GUTTER 4-INCH SLOPED 30-INCH TYPE R LF	SPV.0090.01 SPECIAL (01. CURE AND SEAL TREATMENT, CONCRETE CURB AND GUTTER) LF	REMARKS
0010	377+91	-	378+66	USH 10 - W LEG	--	--	--	112	--	112	
0010	101+40	-	103+36	STH 25 - N LEG	--	--	103	94	--	197	
				STAGE 2 SUBTOTAL	0	0	103	206	0	309	
0010	376+26	-	378+67	USH 10 - W LEG	23	--	148	95	--	243	
0010	10+00	-	11+31	RAB	--	--	--	--	47	47	
0010	12+84	-	13+33	RAB	--	--	--	--	52	52	
0010	380+14	-	385+00	USH 10 - E LEG	23	--	321	640	--	961	
0010	98+93	-	99+68	STH 25 - S LEG WEST	--	--		242	--	242	
0010	99+02	-	99+36	STH 25 - S LEG	--	--	81	--	--	81	
0010	98+82	-	99+92	STH 25 - S LEG EAST	--	--	83	80	--	163	
0010	100+71	-	102+31	STH 25 - N LEG WEST	23	--	--	155	--	155	
0010	100+94	-	103+33	STH 25 - N LEG	--	--	148	94	--	242	
				STAGE 4 SUBTOTAL	69	0	781	1306	99	2186	
0010	376+26	-	378+74	USH 10 - W LEG	23	--	180	96	--	276	
0010	11+31	-	13+33	RAB	--	--	--	--	149	149	
0010	10+00		13+33	RAB	--	163	--	--	--	163	
0010	101+09	-	101+84	STH 25 - N LEG EAST	46	--	--	264	--	264	
0010	100+86	-	99+36	STH 25 - N LEG	--	0	71	--	--	71	
				STAGE 5 SUBTOTAL	69	163	251	360	149	923	
				TOTAL 0010	138	163	1,135	1,872	248	3,418	

EROSION CONTROL AND RESTORATION

CATEGORY	STATION	TO	STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	625.0100 TOPSOIL SY	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.2008 EROSION MAT URBAN CLASS I TYPE B 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	629.0210 FERTILIZER TYPE B CWT	630.0140 SEEDING MIXTURE NO. 40 LB	630.0170 SEEDING MIXTURE NO. 70 LB	630.0200 SEEDING TEMPORARY LB	630.0400 SEEDING NURSE CROP LB	630.0500 SEED WATER MGAL	645.0120 GEOTEXTILE TYPE HR SY	REMARKS
0010	371+54	-	391+43	USH 10 EXIST	--	1,409	--	--	1,409	--	--	14	--	0.9	26	--	10	--	24	--	
0010	100+00	-	109+77	STH 25 EXIST	--	647	--	--	647	--	--	6	--	0.5	12	--	5	--	11	--	
				STAGE 1 SUBTOTAL	0	2,056	0	0	2,056	0	0	20	0	1.4	38	0	15	0	35	0	
0010	372+82	-	374+61	USH 10 W LEG - LT	--	281	340	340	281	2	2	--	--	0.2	6	--	2	--	5	--	
0010	374+71	-	379+06	USH 10 W LEG - LT	--	1,356	420	420	1,356	--	--	2	--	0.9	25	--	10	--	23	--	
0010	101+27	-	107+32	STH 25 - LT	--	1,517	620	620	1,517	--	--	3	3	1.0	28	--	11	--	26	--	CULVERT 101+34
0010	372+82	-	379+68	USH 10 W LEG -RT	--	1,361	820	820	1,361	--	--	--	3	0.9	25	--	10	--	23	--	CULVERT 376+75
0010	379+09	-	379+65	RAB	--	199	--	--	199	2	2	--	--	0.2	--	4	--	1	4	--	
0010	101+43	-	108+02	STH 25 - RT	--	1,495	750	750	1,495	--	--	4	--	1.0	27	--	11	--	26	--	
0010	379+69	-	389+67	USH 10 E LEG - LT	--	3,076	1,150	1,150	3,076	2	2	14	--	2.0	56	--	21	--	52	--	
0010	379+95	-	383+96	USH 10 E LEG - RT	--	1,271	390	390	1,271	--	--	4	2	0.9	23	--	9	--	22	--	CULVERT 383+68
0010	384+09	-	389+67	USH 10 E LEG - RT	--	1,525	630	630	1,525	--	--	10	--	1.0	28	--	11	--	26	--	
0010	98+92	-	99+05	SOUTH LEG	--	--	40	40	--	5	4	--	--	--	--	--	--	--	--	--	
0010	107+68	-	108+02	STH 25 N LEG	--	54	200	200	54	2	2	--	--	0.1	1	--	1	--	1	--	
0010		-			30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	110	
				STAGE 2 TO 5 SUBTOTAL	30	12,135	5,360	5,360	12,135	13	12	37	8	8.2	219	4	86	1	208	110	
0010	UNDISTRIBUTED (25%)			PROJECT	12	3,609	1,340	1,340	3,609	0	0	18	2	2.9	68	1	27	1	67	30	
				TOTAL 0010	42	17,800	6,700	6,700	17,800	13	12	75	10	12.5	325	5	128	2	310	140	

3

EROSION CONTROL MOBILZIATIONS

CATEGORY	LOCATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
0010	PROJECT	5	3
	TOTAL 0010	5	3

TEMPORARY PAVEMENT MARKING

CATEGORY	STATION	TO	STATION	LOCATION	643.3165 TEMPORARY MARKING LINE PAINT 6-INCH WHITE SOLID LF	643.3165 TEMPORARY MARKING LINE PAINT 6-INCH WHITE 2' SKIPS	643.3165 TEMPORARY MARKING LINE PAINT 6-INCH YELLOW SOLID LF	643.3180 TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH WHITE SOLID LF	643.3180 TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH YELLOW SOLID LF	643.3805 TEMPORARY MARKING STOP LINE PAINT 18-INCH WHITE LF	643.3850 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH LF	646.9002 MARKING REMOVAL LINE 6-INCH LF
0010	371+53	-	392+33	USH 10 EXISTING	566	0	0	0	0	0	0	0
				STAGE 1 SUBTOTAL	566	0	0	0	0	0	0	0
0010	368+62	-	393+53	USH 10	6,774	115	3,400	0	0	0	0	2,950
0010	99+93	-	111+81	STH 25	4,806	0	4,476	0	0	25	0	2,500
				STAGE 2 SUBTOTAL	11,580	115	7,876	0	0	25	0	5,450
0010	368+62	-	393+53	USH 10	1,946	0	1,262	508	820	24	0	950
				STAGE 3 SUBTOTAL	1,946	0	1,262	508	820	24	0	950
0010	368+84	-	393+61	USH 10	3,584	57	3,966	1,020	978	0	0	300
0010	100+72	-	101+50	STH 25	0	0	0	0	246	0	34	0
				STAGE 4 SUBTOTAL	3,584	57	3,966	1,020	1,224	0	34	300
				TOTAL 0010	30,952			1,528		49	34	6,700

PERMANENT SIGNING

CATEGORY	STATION	LOCATION	SIGN #	SIGN CODE	SIZE IN X IN	DESCRIPTION	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	MOUNTED ON SAME POST AS SIGN #
0010	368+45	USH 10	01-02	W14-3	48 X 36	NO PASSING ZONE	-	1	-	5.56	-	-	
0010	369+07	USH 10	01-03	J1-1	24 X 39	JUNCTION ASSEMBLY	-	1	6.50	-	-	-	
0010	370+05	USH 10	01-04	W2-6	30 X 30	CIRCULAR INTERSECTION SIGN	-	1	-	6.25	-	-	
0010	370+05	USH 10		W13-1	18 X 18	ADVISORY SPEED PLATE (YELLOW BACK)	-	-	-	2.25	-	-	01-07
0010	371+75	USH 10	01-05		- X -		-	-	-	-	1	2	
0010	375+07	USH 10	01-06	D1-2	78 X 24	DESTINATION SIGN - DISTANCE	-	2	-	-	-	-	
0010	375+78	USH 10	01-07	D1-2	78 X 30	TWO DESTINATION (ARROWS)	-	2	-	-	-	-	
0010	375+18	USH 10	01-08R		- X -		-	-	-	-	3	2	
0010	373+74	USH 10	01-09		66 X 78		-	-	-	-			
0010	375+91	USH 10	01-10	R2-1	24 X 30	SPEED LIMIT 55 MPH	-	1	5.00	-	-	-	
0010	375+91	USH 10	01-11	R5-1	30 X 30	DO NOT ENTER	-	-	6.25	-	-	-	01-10
0010	376+33	USH 10	01-12	R4-7	24 X 30	KEEP RIGHT	-	1	5.00	-	-	-	
0010	376+33	USH 10		W5-54	18 X 18	CLEARANCE MARKER	-	-	-	2.25	-	-	01-12
0010	377+40	USH 10	01-13R		- X -		-	-	-	-	1	1	
0010	378+2	USH 10	01-14	R5-1A	36 X 24	WRONG WAY	-	1	6.00	-	-	-	
0010	378+2	USH 10	01-15	J1-1	24 X 39	JUNCTION ASSEMBLY	-	-	6.50	-	-	-	01-14
0010	378+58	USH 10	01-16		42 X 30		-	-	-	-	-	-	
0010	378+68	USH 10	01-17R		- X -		-	-	-	-	1	2	
0010	378+89	USH 10	01-18R		- X -		-	-	-	-	-	-	
0010	378+63	USH 10	01-19	R1-2	36 X 31	YIELD	-	1	3.88	-	-	-	
0010	378+72	USH 10	01-20	R1-2	36 X 31	YIELD	-	1	3.88	-	-	-	
0010	378+99	USH 10	01-21R		- X -		-	-	-	-	3	1	
0010	379+17	USH 10	01-22	R6-1R	48 X 18	ONE WAY RIGHT ARROW	1	-	3.00	-	-	-	
0010	379+23	USH 10	01-23	R6-1R	48 X 18	ONE WAY RIGHT ARROW	1	-	3.00	-	-	-	
0010	379+58	USH 10	01-24	R6-1R	48 X 18	ONE WAY RIGHT ARROW	1	-	3.00	-	-	-	
0010	379+59	USH 10	01-25	R6-1R	48 X 18	ONE WAY RIGHT ARROW	1	-	3.00	-	-	-	
0010	379+17	USH 10		W5-54	18 X 18	CLEARANCE MARKER	-	-	-	2.25	-	-	01-22
0010	379+23	USH 10		W5-54	18 X 18	CLEARANCE MARKER	-	-	-	2.25	-	-	01-23
0010	379+58	USH 10		W5-54	18 X 18	CLEARANCE MARKER	-	-	-	2.25	-	-	01-24
0010	379+59	USH 10		W5-54	18 X 18	CLEARANCE MARKER	-	-	-	2.25	-	-	01-25
0010	379+65	USH 10	01-26	R1-2	36 X 31	YIELD	-	1	3.88	-	-	-	
0010	380+2	USH 10	01-27	R1-2	36 X 31	YIELD	-	1	3.88	-	-	-	
0010	380+28	USH 10	01-28		42 X 30		-	-	-	-	-	-	
0010	380+34	USH 10	01-29	R1-2	36 X 31	YIELD	-	1	3.88	-	-	-	
0010	380+49	USH 10	01-30	R1-2	36 X 31	YIELD	-	1	3.88	-	-	-	
0010	379+77	USH 10	01-31R		- X -		-	-	-	-	2	1	
0010	378+90	USH 10	01-32	R1-2	36 X 31	YIELD	-	1	3.88	-	-	-	
0010	379+36	USH 10	01-33	R1-2	36 X 31	YIELD	-	1	3.88	-	-	-	
0010	380+82	USH 10	01-34R		- X -		-	-	-	-	2	1	
0010	381+32	USH 10	01-35	J1-1	24 X 39	JUNCTION ASSEMBLY	-	1	6.50	-	-	-	
0010	381+32	USH 10	01-36	R5-1A	36 X 24	WRONG WAY	-	-	6.00	-	-	-	01-35
0010	384+04	USH 10	02-00	D1-2	78 X 30	TWO DESTINATION (ARROWS)	-	2	-	-	-	-	
0010	384+89	USH 10	02-01		24 X 30		-	-	-	-	-	-	
0010	384+89	USH 10		W5-54	18 X 18	CLEARANCE MARKER	-	-	-	2.25	-	-	02-37
0010	385	USH 10	02-02	R2-1	24 X 30	SPEED LIMIT 55 MPH	1	-	5.00	-	-	-	
0010	385	USH 10	02-03	R5-1	30 X 30	DO NOT ENTER	-	-	6.25	-	-	-	02-38
0010	383+62	USH 10	02-04R		- X -	-	-	-	-	-	1	1	
0010	384+84	USH 10	02-05R		- X -	-	-	-	-	-	1	1	
0010	385+97	USH 10	02-06		66 X 78	-	-	-	-	-	-	-	
0010	387+3	USH 10	02-07	I55-56	30 X 18	ADOPT A HIGHWAY	1	-	3.75	-	-	-	

CONTINUED ON NEXT PAGE

PERMANENT SIGNING

CATEGORY	STATION	LOCATION	SIGN #	SIGN CODE	SIZE IN X IN	DESCRIPTION	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	MOUNTED ON SAME POST AS SIGN #
CONTINUED FROM PREVIOUS PAGE													
0010	387+4	USH 10		I55-56P	30 X 18	ADOPT A HIGHWAY SPONSOR	-	-	3.75	-	-	-	02-43
0010	385+59	USH 10	02-08R		- X -	-	-	-	-	-	2	1	
0010	385+97	USH 10	02-09R		- X -	-	-	-	-	-	1	1	
0010	387+97	USH 10	02-10	W2-6	30 X 30	CIRCULAR INTERSECTION SIGN	1	-	-	6.25	-	-	
0010	387+97	USH 10		W13-1	18 X 18	ADVISORY SPEED PLATE (YELLOW BACK)	-	-	-	2.25	-	-	02-46
0010	388+28	USH 10	02-11R		- X -	-	-	-	-	-	1	2	
0010	390+99	USH 10	02-12	J1-1	24 X 39	JUNCTION ASSEMBLY	-	1	6.50	-	-	-	
0010	392+97	USH 10	02-13	W14-3	48 X 36	NO PASSING ZONE	-	1	-	5.56	-	-	
0010	104+02	USH 10	03-00	D1-2	72 X 30	TWO DESTINATION (ARROWS)	-	2	-	-	-	-	
0010	101+6	STH 25	03-01		42 X 30	-	-	-	-	-	-	-	
0010	101+29	STH 25	03-02		- X -	-	-	-	-	-	1	1	
0010	101+35	STH 25	03-03R		- X -	-	-	-	-	-	1	1	
0010	102+57	STH 25	03-04R		- X -	-	-	-	-	-	1	2	
0010	102+93	STH 25	03-05	J1-1	24 X 39	JUNCTION ASSEMBLY	-	1	6.50	-	-	-	
0010	102+93	STH 25	03-06	R5-1A	36 X 24	WRONG WAY	-	-	6.00	-	-	-	03-54
0010	103+4	STH 25	03-07R		- X -	-	-	-	-	-	1	1	
0010	103+31	STH 25	03-08	R4-7	24 X 30	KEEP RIGHT	-	1	5.00	-	-	-	
0010				W5-54	18 X 18	CLEARANCE MARKER	-	-	-	2.25	-	-	03-57
0010	104+33		03-09	R2-1	24 X 30	SPEED LIMIT 55 MPH	-	1	5.00	-	-	-	
0010	104+33	STH 25	03-10	R5-1	30 X 30	DO NOT ENTER	-	-	6.25	-	-	-	03-58
0010	105+6	STH 25	03-11R		- X -	-	-	-	-	-	1	2	
0010	105+9	STH 25	03-12R		- X -	-	-	-	-	-	1	2	
0010	105+16	STH 25	03-13		108 X 15	-	-	-	-	-	-	-	
0010	105+93	STH 25	03-14		96 X 36	-	-	-	-	-	-	-	
0010	108+3	STH 25	03-15R		- X -	-	-	-	-	-	1	1	
0010	108+97	STH 25	03-16	W2-6	30 X 30	CIRCULAR INTERSECTION SIGN	-	1	-	6.25	-	-	
0010		STH 25		W13-1	18 X 18	ADVISORY SPEED PLATE (YELLOW BACK)	-	-	-	2.25	-	-	03-65
0010	108+3	STH 25	03-17R		- X -	-	-	-	-	-	1	1	
0010	111+97	STH 25	03-18	J1-1	24 X 39	JUNCTION ASSEMBLY	-	1	6.50	-	-	-	
0010	111+72	STH 25	03-19	W14-3	48 X 36	NO PASSING ZONE	-	1	-	5.56	-	-	
						TOTAL 0010	7	30	151.29	57.93	27	27	

3

643 - TRAFFIC CONTROL

CATEGORY	LOCATION	ESTIMATED DURATION	643.0300 TRAFFIC CONTROL DRUMS		643.0420 TRAFFIC CONTROL BARRICADES TYPE III		643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A		643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C		643.0900 TRAFFIC CONTROL SIGNS		643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II			643.1050 TRAFFIC CONTROL SIGNS PCMS	
		DAYS	EACH **	DAY	EACH **	DAY	EACH **	DAY	EACH **	DAY	EACH **	DAY	EACH **	NO CYCLES	EACH	EACH **	DAY
STAGE 1																	
0010	USH 10	24	48	1,152	2	48	4	96	--	--	11	264	--	--	--	2	14
0010	STH 25	24	19	456	--	--	--	--	--	--	5	120	--	--	--	1	7
0010	ADVANCED WIDTH RESTRICTION SIGNING	24	--	--	--	--	--	--	--	--	30	720	--	--	--	--	--
	STAGE 1 SUBTOTAL			1,608		48		96		0		1,104			0		21
STAGE 2																	
0010	USH 10	48	37	1,776	3	144	6	288	8	384	24	1,152	1	1	1	--	--
0010	STH 25	48	34	1,632	--	--	--	--	--	--	12	576	2	1	2	--	--
0010	ADVANCED WIDTH RESTRICTION SIGNING	48	--	--	--	--	--	--	--	--	30	1,440	--	--	--	--	--
	STAGE 2 SUBTOTAL			3,408		144		288		384		3,168			3		0
STAGE 3																	
0010	USH 10	10	39	390	3	30	6	60	8	80	24	240	--	--	--	--	--
0010	STH 25	10	47	470	2	20	4	40	6	60	16	160	--	--	--	--	--
0010	ADVANCED WIDTH RESTRICTION SIGNING	10	--	--	--	--	--	--	--	--	30	300	--	--	--	--	--
	STAGE 3 SUBTOTAL			860		50		100		140		700			0		0
STAGE 4																	
0010	USH 10	50	65	3,250	10	500	20	1,000	7	350	27	1,350	--	--	--	--	--
0010	STH 25	50	44	2,200	2	100	4	200	6	300	14	700	--	--	--	--	--
0010	ADVANCED WIDTH RESTRICTION SIGNING	50	--	--	--	--	--	--	--	--	30	1,500	--	--	--	--	--
	STAGE 4 SUBTOTAL			5,450		600		1,200		650		3,550			0		0
STAGE 5																	
0010	USH 10	31	85	2,635	2	62	4	124	12	372	22	682	--	--	--	--	--
0010	STH 25	31	52	1,612	2	62	4	124	22	682	12	372	--	--	--	--	--
0010	ADVANCED WIDTH RESTRICTION SIGNING	31	--	--	--	--	--	--	--	--	30	930	--	--	--	--	--
	STAGE 5 SUBTOTAL			4,247		124		248		1,054		1,984			0		0
	UNDISTRUBTED (10%)			1577		98		186		224		1088	4	1	4		0
	TOTAL 0010			17,150		2,030		4,050		4,680		22,100			10		42

**FOR INFORMATION ONLY

3

PAVEMENT MARKING

CATEGORY	STATION	TO	STATION	LOCATION	646.2040 MARKING LINE GROOVED WET REF EPOXY 6-INCH WHITE SOLID LF	646.2040 MARKING LINE GROOVED WET REF EPOXY 6-INCH WHITE 3' SKIPS LF	646.2040 MARKING LINE GROOVED WET REF EPOXY 6-INCH YELLOW SOLID LF	646.4040 MARKING LINE GROOVED WET REF EPOXY 10-INCH WHITE SOLID LF	646.6320 MARKING DOTTED EXTENSION EPOXY 18-INCH WHITE DOTTED LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH YELLOW SOLID LF	646.8120 MARKING CURB EPOXY YELLOW SOLID LF	646.8220 MARKING ISLAND NOSE EPOXY YELLOW EACH
0010	368+00	-	378+75	USH 10 - W LEG	1,705	37	2,697	--	--	70	10	1
0010	98+75	-	99+42	SOUTH LEG	--	--	106	--	--	--	10	1
0010	380+14	-	393+36	USH 10 - E LEG	2,486	--	3,247	--	--	100	10	1
0010	100+87	-	111+75	STH 25	2,004	--	3,700	--	--	128	10	1
0010	10+00	-	13+33	RAB	--	--	--	246	309	--	--	--
				SUBTOTAL	6195	37	9750	246	309	298	40	4
				TOTAL 0010		15,982		246	309	298	40	4

SALVAGING SOLAR POWERED FLASHING BEACONS

CATEGORY	STATION	LOCATION	SPV.0060.02 SPECIAL (02. SALVAGING SOLAR POWERED FLASHING BEACONS) EACH
0010	100+48	STH 25 LT	1
		TOTAL 0010	1

3

CONSTRUCTION STAKING

CATEGORY	STATION	TO	STATION	LOCATION	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.7000 CONSTRUCTION STAKING CONCRETE PAVEMENT LF	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF	REMARKS
0010	370+64	-	391+43	USH 10 EX	1,701	1,701	--	1,701	STAGE 1 TEMPORARY WIDENING
0010	100+52	-	109+77	STH 25 EX	925	925	--	925	STAGE 1 TEMPORARY WIDENING
0010	371+45	-	372+82	USH 10 EB	137	137	--	137	STAGE 2 TEMPORARY WIDENING
0010	389+67	-	392+61	USH 10 EB	294	294	--	294	STAGE 2 TEMPORARY WIDENING
0010	108+02	-	108+89	STH 25 SB	87	87	--	87	STAGE 2 TEMPORARY WIDENING
0010	372+82	-	389+67	USH 10 EB	1,452	308	1,144	1,685	
0010	376+18	-	385+02	USH 10 WB	743	--	743	743	
0010	98+18	-	108+02	STH 25 SB	839	409	430	984	
0010	98+97	-	103+43	STH 25 NB	307	--	307	307	
0010	10+00	-	13+33	RAB	333	--	333	--	
				TOTAL 0010	6,818	3,861	2,957	6,863	

SURVEY MONUMENTS

CATEGORY	STATION	LOCATION	682.0100 SALVAGE GEODETIC SURVEY DISK EACH	682.0200 GEODETIC SURVEY MONUMENT EACH
0010	378+34	USH 10 LT	1	1
		TOTAL 0010	1	1

STREET LIGHTING ITEMS

CATEGORY	LIGHT NUMBER	STATION	OFFSET	LOCATION	654.0105 CONCRETE BASES TYPE 5 EACH	* 655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0322 POLES TYPE 5-ALUMINUM EACH	657.0715 LUMINAIRE ARMS TRUSS TYPE 4 1/2-INCH CLAMP 15-FT EACH	659.1115 LUMINAIRES UTILITY LED A EACH	REMARKS
STAGE 2											
0010	L5	12+60 'RAB'	47.3'	RT	1	144	1	1	1	1	
				STAGE 2 SUBTOTAL	1	144	1	1	1	1	
STAGE 4											
0010	L1	10+11 'RAB'	30.3'	RT	1	144	1	1	1	1	
0010	L2	378+26 'EB'	28.9'	RT	1	144	1	1	1	1	
0010	L3	376+50 'EB'	24.4'	RT	1	144	1	1	1	1	
0010	L4	375+01 'EB'	24.1'	RT	1	144	1	1	1	1	
0010	L6	101+50 'SB'	28.0'	LT	1	144	1	1	1	1	
0010	L7	103+05 'SB'	25.2'	LT	1	144	1	1	1	1	
0010	L8	104+45 'SB'	24.6'	LT	1	144	1	1	1	1	
0010	L10	380+25 'EB'	27.3'	RT	1	144	1	1	1	1	
				STAGE 4 SUBTOTAL	8	1,152	8	8	8	8	
STAGE 5											
0010	L9	100+91 'NB'	35.8'	RT	1	144	1	1	1	1	
0010	L11	380+91 'WB'	30.0'	LT	1	144	1	1	1	1	
0010	L12	382+31 'WB'	24.9'	LT	1	144	1	1	1	1	
0010	L13	383+79 'WB'	25'	LT	1	144	1	1	1	1	
				STAGE 5 SUBTOTAL	4	576	4	4	4	4	
				TOTAL 0010	**13**	**1,872**	**13**	**13**	**13**	**13**	

*ADDITIONAL QUANTITIES LISTED WITH CONDUIT ITEMS

CONTROL CABINET ITEMS

CATEGORY	CABINET NUMBER	STATION	OFFSET	LOCATION	650.8501.01 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (PROJECT) (01. 1530-05-75) EACH	654.0230 CONCRETE CONTROL CABINET BASES TYPE L30 EACH	656.0201.01 ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) (01. STATION 12+59'RAB', 60.1' RT) EACH	659.2130 LIGHTING CONTROL CABINETS 120/240 30-INCH EACH
0010	LC1	12+59 'RAB'	60.1'	RT	1	1	1	1
				TOTAL 0010	**1**	**1**	**1**	**1**

LIGHTING PULL BOX ITEMS

CATEGORY	PULL BOX NUMBER	STATION	OFFSET	LOCATION	653.0164 PULL BOXES NON-CONDUCTIVE 24X42-INCH EACH
STAGE 2					
0010	PB-1	12+61 'RAB'	55.9'	RT	1
0010	PB-7	12+59 'RAB'	60.1'	RT	1
			STAGE 2 SUBTOTAL		2
STAGE 4					
0010	PB-2	13+17 'RAB'	43.7'	RT	1
0010	PB-3	10+08 'RAB'	32.4'	RT	1
0010	PB-4	378+26 'EB'	33.9'	RT	1
0010	PB-5	376+50 'EB'	29.8'	RT	1
0010	PB-6	375+01 'EB'	29.4'	RT	1
0010	PB-8	100+90 'SB'	39.6'	LT	1
0010	PB-9	101+50 'SB'	33.2'	LT	1
0010	PB-10	103+05 'SB'	29.7'	LT	1
0010	PB-11	104+45 'SB'	29.9'	LT	1
0010	PB-14	380+32 'EB'	29.5'	RT	1
			STAGE 4 SUBTOTAL		10
STAGE 5					
0010	PB-12	100+91 'NB'	36.5'	RT	1
0010	PB-13	380+57 'WB'	36.0'	LT	1
0010	PB-15	380+92 'WB'	35.0'	LT	1
0010	PB-16	382+32 'WB'	30.2'	LT	1
0010	PB-17	383+79 'WB'	30.0'	LT	1
			STAGE 5 SUBTOTAL		5
				TOTAL 0010	**17**

TEMPORARY LIGHTING

CATEGORY	LOCATION	SPV.0060.01 SPECIAL (01. TEMPORARY LIGHTING) EACH
0010	PROJECT 1530-05-75	1
	TOTAL 0010	**1**

LIGHTING CONDUIT AND WIRE ITEMS

CATEGORY	FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF	652.0605 CONDUIT SPECIAL 2-INCH LF	* 655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF
STAGE 2						
0010	LC1	PB-1	-	6	-	80
0010	LC1	PB-7	-	8	-	216
0010	PB-7	L5	3	-	-	144
	STAGE 2 SUBTOTAL		3	14	0	440
STAGE 4						
0010	PB-1	PB-2	-	-	100	396
0010	PB-2	PB-3	40	-	-	432
0010	PB-3	L1	6	-	-	162
0010	PB-2	PB-4	28	-	-	180
0010	PB-4	L2	3	-	-	144
0010	PB-4	PB-5	170	-	-	606
0010	PB-5	L3	3	-	-	144
0010	PB-5	PB-6	148	-	-	540
0010	PB-6	L4	3	-	-	72
0010	PB-7	PB-8	48	-	-	480
0010	PB-8	PB-9	39	-	-	213
0010	PB-9	L6	3	-	-	144
0010	PB-9	PB-10	155	-	-	561
0010	PB-10	L7	3	-	-	144
0010	PB-10	PB-11	143	-	-	525
0010	PB-11	L8	3	-	-	74
0010	PB-14	L10	7	-	-	84
	STAGE 4 SUBTOTAL		802	0	100	4,901
STAGE 5						
0010	PB-8	PB-12	-	-	105	411
0010	PB-12	L9	3	-	-	144
0010	PB-12	PB-13	70	-	-	306
0010	PB-13	PB-15	20	-	-	312
0010	PB-15	L11	3	-	-	216
0010	PB-15	PB-16	136	-	-	504
0010	PB-16	L12	3	-	-	144
0010	PB-16	PB-17	147	-	-	537
0010	PB-17	L13	3	-	-	72
0010	PB-13	PB-14	-	-	85	351
	STAGE 5 SUBTOTAL		385	0	190	2,997
		TOTAL 0010	**1,190**	**14**	**290**	**8,338**

*ADDITIONAL QUANTITIES LISTED WITH STREET LIGHTING ITEMS

TRANSPORTATION PROJECT PLAT NO: 1530-05-25-4.01
AMENDMENT NO: 1

AMENDS UTILITY NUMBERS 80, 81 AND 82 OF TRANSPORTATION PROJECT PLAT NO: 1530-05-25 - 4.01 RECORDED AS DOCUMENT NUMBER 147697 AND FILED IN PLAT CABINET A ON SLIDE A-85.

THAT PART OF LOT 2 AND OUTLOT 2, CERTIFIED SURVEY MAP #603, VOLUME 4 OF CERTIFIED SURVEY MAPS, PAGE 151A-151B, DOCUMENT #135806, AND PART OF LOTS 2 AND 3, CERTIFIED SURVEY MAP #790, VOLUME 6 OF CERTIFIED SURVEY MAPS, PAGE 26A-26B, DOCUMENT #146150, LOCATED IN AND INCLUDING PART OF THE SE 1/4 OF THE NE 1/4, SECTION 19, TOWNSHIP 25 NORTH, RANGE 13 WEST, TOWN OF WAUBEEK, PEPIN COUNTY, WISCONSIN.

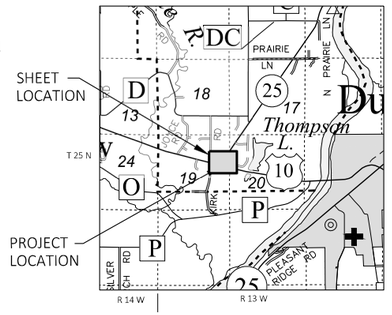
RELOCATION ORDER USH 10, ELLSWORTH-DURAND, STH 25 NORTH INTERSECTION, PEPIN COUNTY

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 SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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

LOCATION SKETCH
NOT TO SCALE



ROAD NAME	BASIS OF EXISTING R/W	YEAR
USH 10, STH 25, KIRK ROAD	CSM #790, VOL 6 CSMS, P26A-26B, DOC #146150	2023
USH 10, STH 25	CSM #603, VOL 4 CSMS, P 151A-151B, DOC #135806	2017
USH 10, KIRK ROAD	CSM #494, VOL 4 CSMS, P 42A-42B, DOC #129184	2013
USH 10	CSM #241, VOL 2 CSMS, P 83A-83B, DOC #113015	2004
STH 25	STATE AID PROJECT NO. 6926-A	1983
USH 10	STATE AID PROJECT NO. 6926	1967
USH 10	PLAT OF RIGHT OF WAY PROJECT T019-1(40)	1967
USH 10	DIVISION JOB NO. 6395B & 6523	1945
STH 25	DIVISION JOB NO. 6308	-

* PEPIN COUNTY PUBLISHED COORDINATE VALUE. COORDINATE VALUES FIELD VERIFIED WITH CORNER TIE SHEETS.

2513C7
FOUND 3" ALUM. DISC
* Y= 283,707.184
X= 610,794.190

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

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTERESTS REQUIRED	R/W SQUARE FEET REQUIRED			TLE SQUARE FEET
			NEW	EXISTING	TOTAL	
1	DANIEL J. ANIBAS	FEE	1195	28724	29919	-
2	MDMA EQUIPMENT DEALERS INC.	FEE	115	46631	46746	-
3	MDMA INC.	FEE	-	30058	30058	-
4	THOMAS J. AND KATHLEEN A. GIANFORTE	FEE/TLE	1916	89772	91688	1360
-	-	-	-	-	-	-
6	DAVID E. & KRISTINE A. POLZER	FEE/TLE	4380	46867	51247	1965
7	KARL E. POLZER	FEE/TLE	10318	42124	52442	1517

Register of Deeds Office)
Pepin County, WI)

Received for Record this 14 day of April, 2025 at 9:30 o'clock AM and recorded in Plat Cabinet A on Slide B-85 as Document number 148046

Lisa M. Traun, Register of Deeds

Pd. $ 25.00 CK# 100032571163

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1530-05-25-4.01
AMENDMENT NO: 1

UTILITY EASEMENT TABLE			
UTILITY NUMBER	PARCEL	RECORDING INFORMATION	NAME
80	1	VOL. 28 RECORDS, P 702, DOC #61671	NELSON TELEPHONE COOPERATIVE
80	2	VOL. 28 RECORDS, P 730, DOC #61699	NELSON TELEPHONE COOPERATIVE
80	4	NO RECORD OF EASEMENT	NELSON TELEPHONE COOPERATIVE
80	6, 7	VOL. 27 RECORDS, P 320, DOC #60788	NELSON TELEPHONE COOPERATIVE
81	6	VOL. 280 RECORDS, P 485, DOC #135874	PIERCE PEPIN COOPERATIVE SERVICES
82	1	PRESCRIPTIVE RIGHTS	WE ENERGIES (GAS)

UTILITY INTERESTS REQUIRED		
UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
80	NELSON TELEPHONE COOPERATIVE	RELEASE OF RIGHTS
81	PIERCE PEPIN COOPERATIVE SERVICES(ELECTRIC)	RELEASE OF RIGHTS
82	WE ENERGIES (GAS)	RELEASE OF RIGHTS

N

SCALE, FEET
0 100 200

CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W OR HE LINE
PROPERTY LINE
LOT, TIE & OTHER MINOR LINES
SLOPE INTERCEPT
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC)
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)
TEMPORARY LIMITED EASEMENT AREA
EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING TO BE REMOVED
BRIDGE

SECTION CORNER SYMBOL
SECTION CORNER MONUMENT
R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
FOUND SURVEY MONUMENT (SEE FOUND MONUMENT TABLE)
GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
SIGN
OFF-PREMISE SIGN

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE		
TELEPHONE POLE		
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)		

ACCESS RESTRICTED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)
PARCEL NUMBER (25) UTILITY NUMBER (40)
PARALLEL OFFSETS

CONVENTIONAL ABBREVIATIONS

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

CURVE DATA

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

CONVENTIONAL UTILITY SYMBOLS

WATER	W
GAS	G
TELEPHONE	T
OVERHEAD TRANSMISSION LINES	OH
ELECTRIC	E
CABLE TELEVISION	TV
FIBER OPTIC	FO
SANITARY SEWER	SAN
STORM SEWER	SS

"EP" 108+00.00 SB
Y=282291.351
X=610601.984

"BP" 368+00.00
Y=281846.091
X=609171.071

"BP" 98+18.07 SB
Y=281397.695
X=610255.774

"EP" 390+93.63
Y=281289.768
X=611395.598

CURVE 113-102
L=180.34'
LCH=176.75'
LCB=N 54°32'08" E
R=260.00'

CURVE 1
PI = 101+21.26SB
Y = 281679.737
X = 610322.896
Δ = 34°52'41"(LT)
D = 52°05'13"
T = 34.55'
L = 66.96'
R = 110.00'
PC = 100+86.71SB
PT = 101+53.67SB
DB = N45° 47' 28"E
DA = N10° 54' 48"E

PI = 105+45.88SB
Y = 282082.213
X = 610456.931
Δ = 8°34'47"(RT)
D = 4°01'15"
T = 106.89'
L = 213.39'
R = 1425.00'
PC = 104+38.99SB
PT = 106+52.38SB
DB = N26° 09' 52"E
DA = N34° 44' 39"E

PI = 103+36.46SB
Y = 281893.145
X = 610364.043
Δ = 15°15'05"(RT)
D = 7°23'35"
T = 103.76'
L = 206.29'
R = 775.00'
PC = 102+32.70SB
PCC = 104+38.99SB
DB = N10° 54' 48"E
DA = N26° 09' 52"E

PI: 98+50.37'SB
Y = 281428.552
X = 610265.339
Δ = 26°28'55" LT

CURVE 103-104
L=239.24'
LCH=238.93'
LCB=S 24°22'09" W
R=1357.39'

COURSE TABLE			
FROM	TO	DIRECTION	DISTANCE
50004	50003	N 75° 56' 47" W	159.82'
		(S 75° 57' 25" E)	(159.88')
50003	50002	N 14° 02' 42" E	50.00'
		(S 14° 02' 35" W)	(50.00')
50002	112	N 75° 57' 43" W	269.80'
112	111	S 82° 45' 20" W	91.22'
111	110	S 14° 01' 47" W	80.00'
110	109	N 75° 58' 13" W	90.00'
109	108	N 11° 53' 42" W	125.80'
108	50000	N 75° 56' 58" W	69.32'
50000	107	N 75° 45' 55" W	647.03'
107	700	N 01° 50' 55" E	61.17'
700	100	N 01° 50' 55" E	51.45'
100	101	S 75° 45' 55" E	425.14'
101	113	S 87° 55' 32" E	163.52'
102	701	N 34° 39' 53" E	471.97'
701	702	S 55° 15' 21" E	50.18'
702	703	S 55° 15' 21" E	68.89'
703	103	S 29° 22' 59" W	126.24'
104	105	S 02° 59' 27" W	124.30'
105	106	S 75° 57' 43" E	314.86'
106	704	S 75° 56' 47" E	95.81'

RECOVERED MONUMENTS			
POINT	Y	X	DESCRIPTION
50000	281546.697	610112.246	3/4" IRON REBAR
50001	281513.779	610243.778	3/4" IRON REBAR
50002	281408.619	610664.361	3/4" IRON REBAR
50003	281360.114	610652.227	3/4" IRON REBAR
50004	281321.305	610807.262	3/4" IRON REBAR
72014	282186.532	610605.853	1" IRON PIPE
72015	282035.757	610543.925	1.5" IRON PIPE
72016	281883.468	610445.044	1" IRON PIPE
72017	281898.657	610329.957	1" IRON PIPE
72021	281369.097	611070.662	SURVEY NAIL
72022	281511.296	611078.488	1" IRON PIPE
72023	281568.532	610272.655	MAGNAIL
72024	281604.950	610126.852	MAGNAIL
72027	281705.285	610306.273	MAGNAIL
72028	281687.034	610378.980	3/4" IRON REBAR
72029	281593.471	610750.383	3/4" IRON REBAR
72036	281704.336	609952.281	1/2" IRON REBAR
72042	281703.459	609494.300	3/4" IRON REBAR

FOUND MONUMENT INFORMATION SHOWN REPRESENTS TYPE AND LOCATION OF EXISTING MONUMENTS WITHOUT OPINION AS TO THEIR VALIDITY AND USE AS A PROPERTY CORNER.

COURSE TABLE - SECTION LINE			
FROM	TO	DIRECTION	DISTANCE
2513C8	50004	N 00°18'50" W	258.69'
50004	705	N 00°18'50" W	115.61'
705	704	N 00°18'50" W	142.46'
704	2513C7	N 00°18'50" W	2127.84'
2513C7	2513C8	S 00°18'50" E	2644.60'

STATION & OFFSET TABLE		
POINT	STATION	OFFSET
108	378+55.00	61.86' RT
109	379+10.00	175.00' RT
306	379+05.00	180.00' RT
104	102+59.83'SB'	65.59' RT
303	102+95.00'SB'	68.85' RT

2513C8
FOUND 3" ALUM. DISC
* Y= 281,062.621
X= 610,808.680

cbs2
770 TECHNOLOGY WAY
CHIPPEWA FALLS, WI 54729

I, NEIL C. BOWE, 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 DEPARTMENT, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: Neil C. Bowe DATE: 3/19/2025
PRINT NAME: NEIL C. BOWE
REGISTRATION NUMBER: S-2827

WISCONSIN NEIL C. BOWE S-2827 CHIPPEWA FALLS, WI LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION - NW REGION-EAU CLAIRE

SIGNATURE: Aaron Gustafson DATE: 3/19/2025
PRINT NAME: AARON GUSTAFSON

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), PEPIN COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES. NGS POINT UTILIZED WAS PO0769.

ALL NEW RIGHT-OF-WAY AND PERMANENT EASEMENT MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, CENTERLINE OF EXISTING PAVEMENTS AND/OR EXISTING OCCUPATIONAL LINES.

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

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

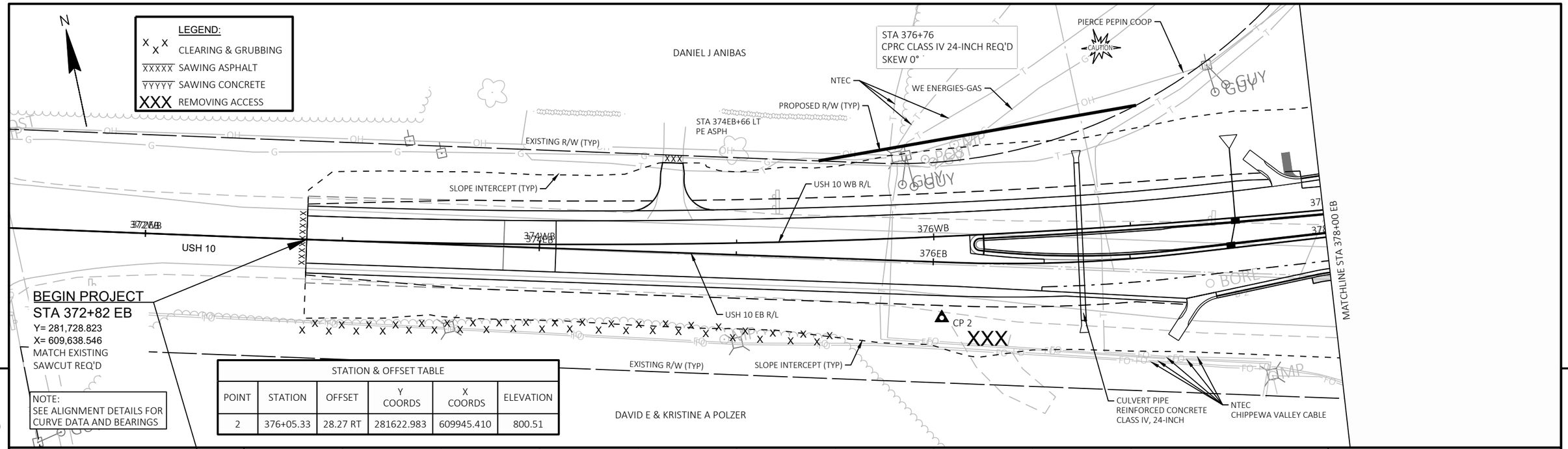
A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY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

ALL TLE'S ARE FOR SLOPE GRADING PURPOSES, UNLESS NOTED

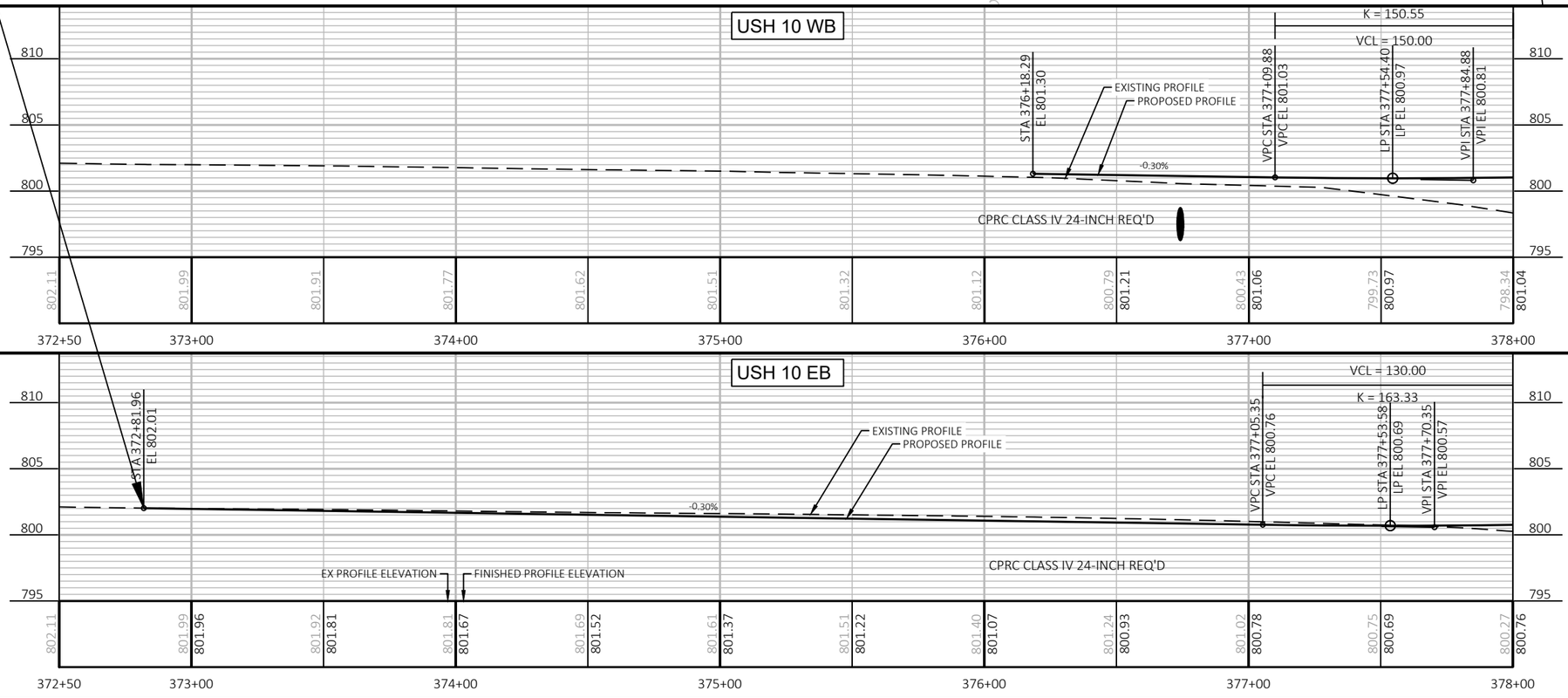
PROPERTY LINES SHOWN ON THIS PLAT FOR PROPERTIES BEING IMPACTED ARE DRAWN FROM DATA DERIVED FROM FILED/RECORDED MAPS AND DOCUMENTS OF PUBLIC RECORD. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD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

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN THE NW REGION - EAU CLAIRE.

PARCEL AND UTILITY IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE TPP DETAIL PAGES.



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
2	376+05.33	28.27 RT	281622.983	609945.410	800.51



PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	PLAN AND PROFILE: USH 10	SHEET 75	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\050101-PP.DWG
LAYOUT NAME - 01

PLOT DATE : 8/1/2025 7:07 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:50 FT

NOTE:
SEE ALIGNMENT DETAILS FOR CURVE DATA AND BEARINGS

NGS MONUMENT
(WILL BE IMPACTED
WITH PROJECT)

BM 50

STH 25

NTEC
CHIPPEWA VALLEY CABLE

SLOPE INTERCEPT (TYP)

REMOVING SMALL
PIPE CULVERTS

USH 10 WB R/L

384WB USH 10

382WB

384EB

382EB

380EB

MATCHLINE STA 378+00 EB

MATCHLINE STA 385+00 EB

REMOVE RED
FLASHING BEACON

USH 10 EB R/L

SLOPE INTERCEPT (TYP)

CULVERT PIPE
CLASS III-A, 18-INCH

EXISTING R/W (TYP)

CP 1

DAVID E & KRISTINE A POLZER

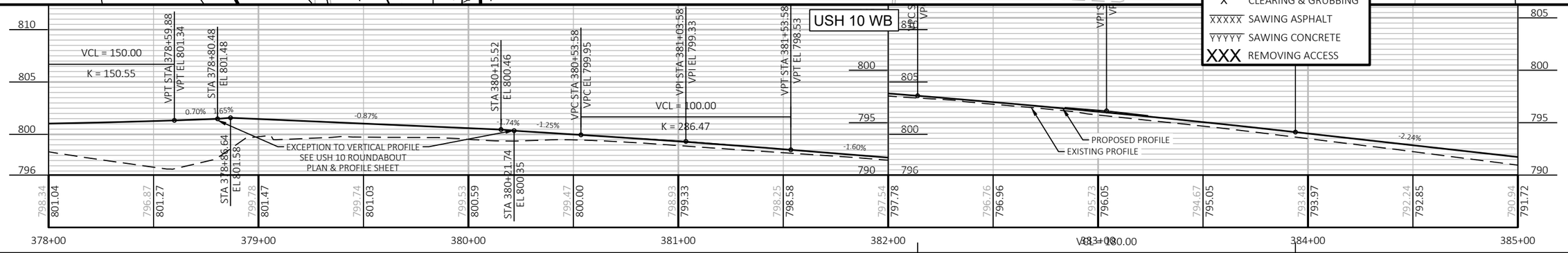
NTEC
CHIPPEWA VALLEY CABLE
T.L.E.
PROPOSED R/W (TYP)

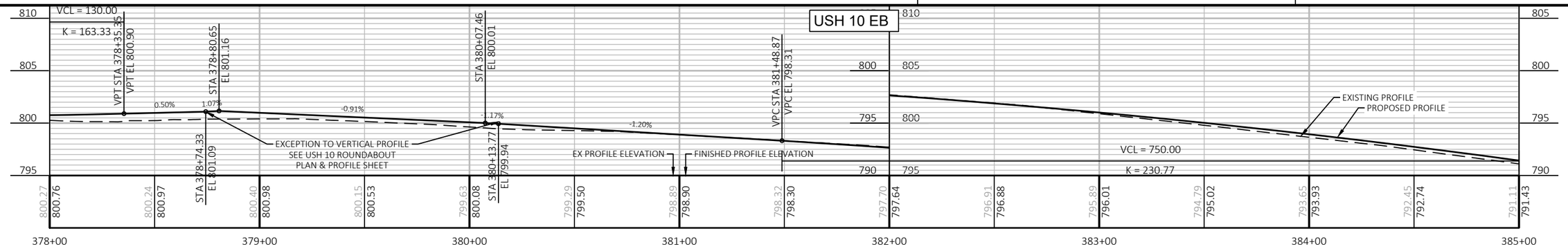
T.L.E.

PROPOSED R/W (TYP)

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1	383+08.51	62.30 RT	281421.230	610612.412	793.79
50	378+34.13	52.72 LT	281664.068	610197.140	798.42

LEGEND:
- X X X CLEARING & GRUBBING
- XXXXX SAWING ASPHALT
- YYYYY SAWING CONCRETE
- XXX REMOVING ACCESS



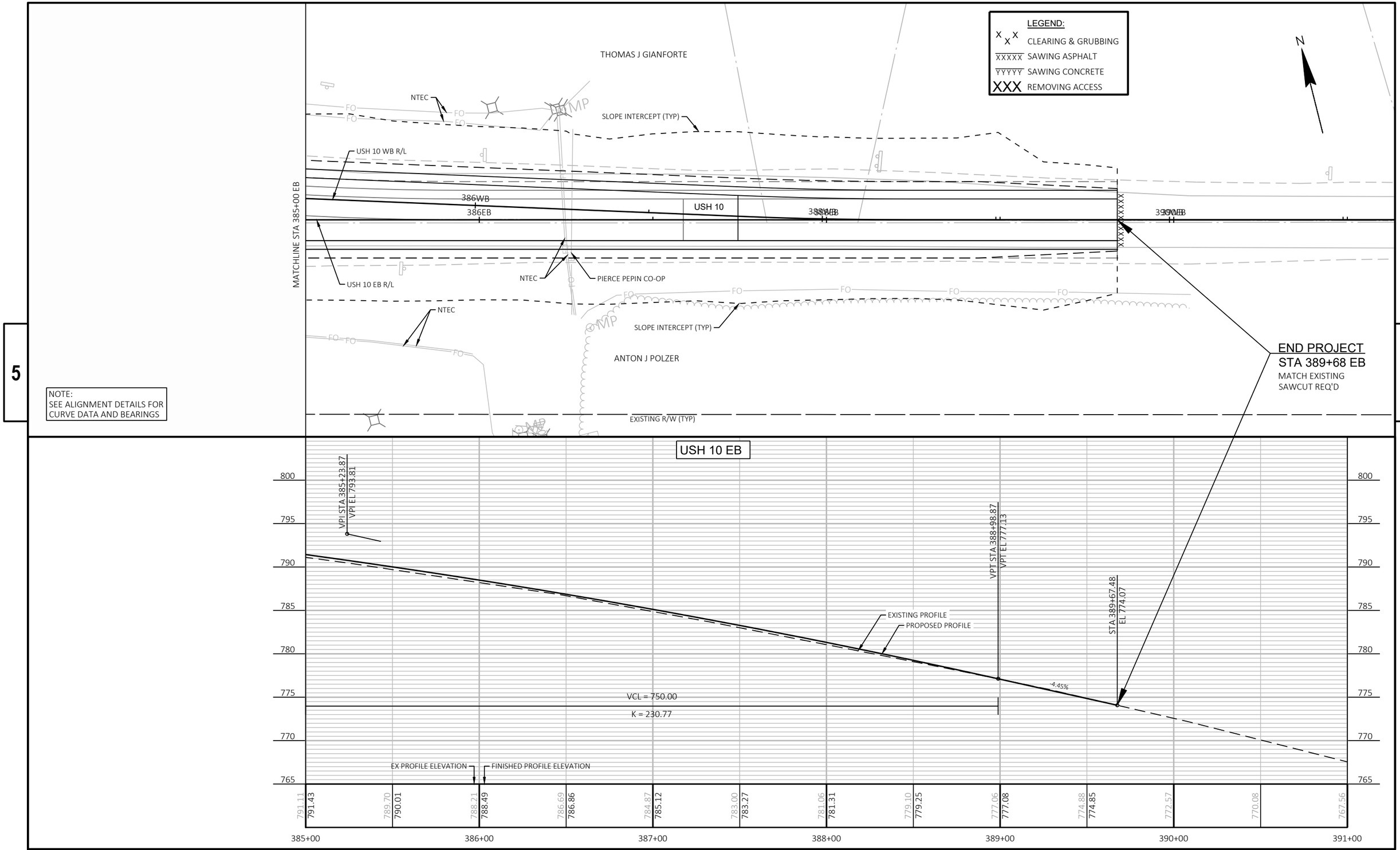


PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	PLAN AND PROFILE: USH 10	SHEET 76	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\050101-PP.DWG
LAYOUT NAME - 02

PLOT DATE : 8/1/2025 7:07 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44



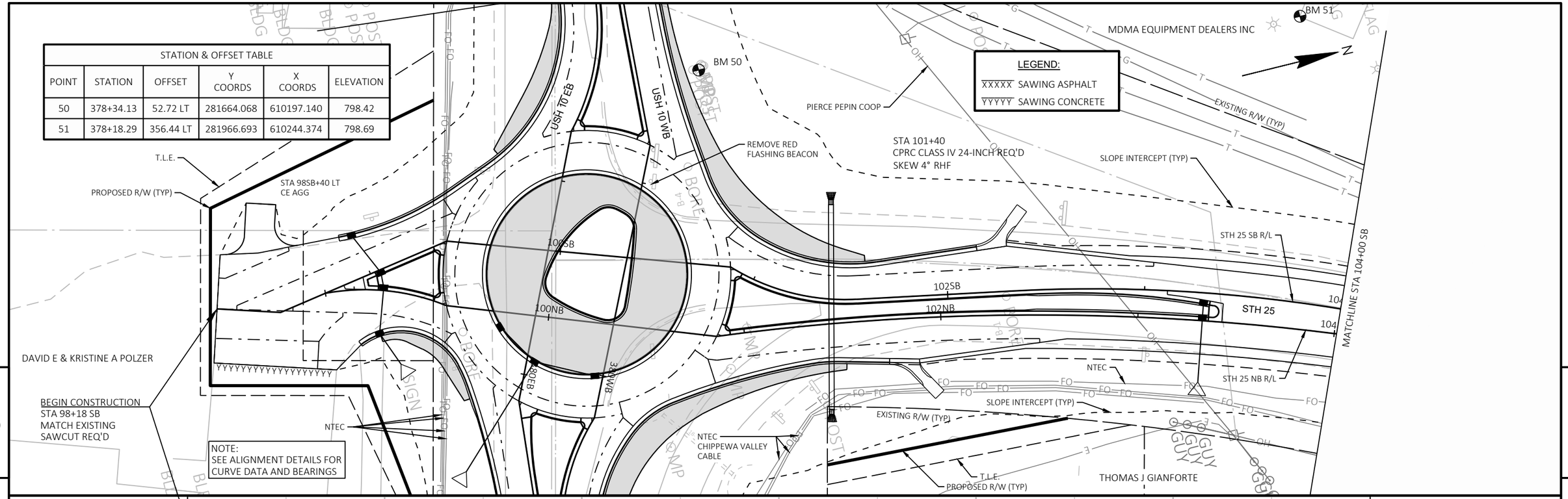
PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	PLAN AND PROFILE: USH 10	SHEET 77	E

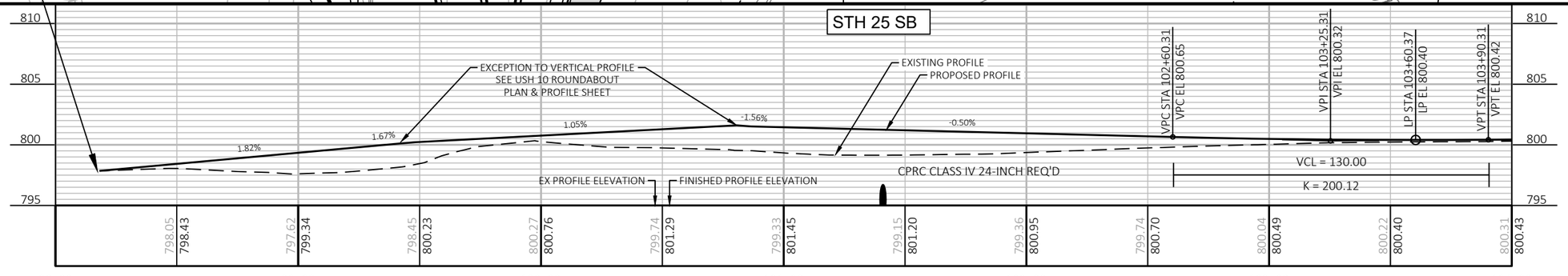
FILE NAME : O:\PDS\C3D\15300505\SHEETS\050101-PP.DWG
LAYOUT NAME - 03

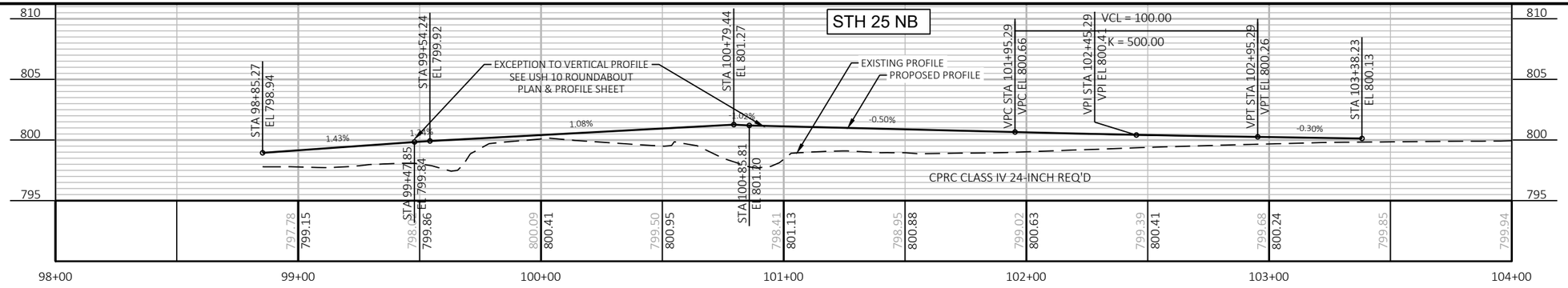
PLOT DATE : 8/1/2025 7:07 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

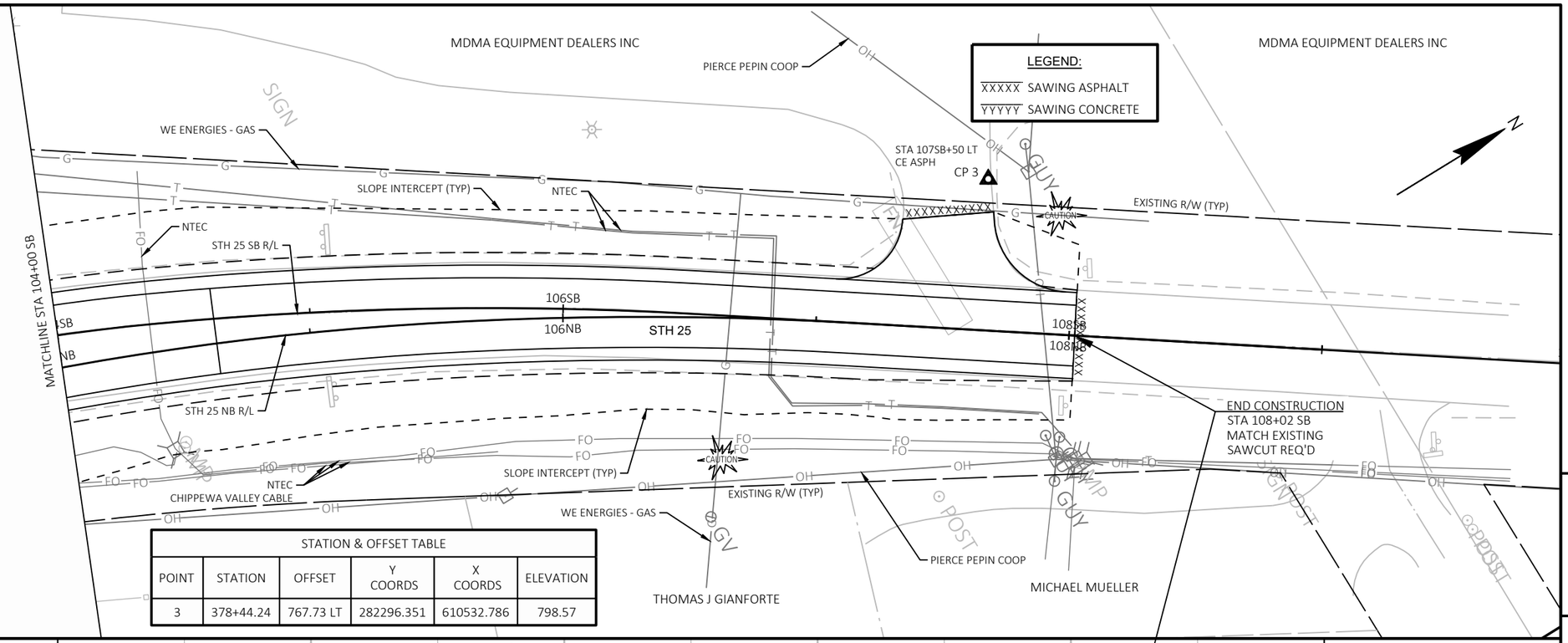
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
50	378+34.13	52.72 LT	281664.068	610197.140	798.42
51	378+18.29	356.44 LT	281966.693	610244.374	798.69





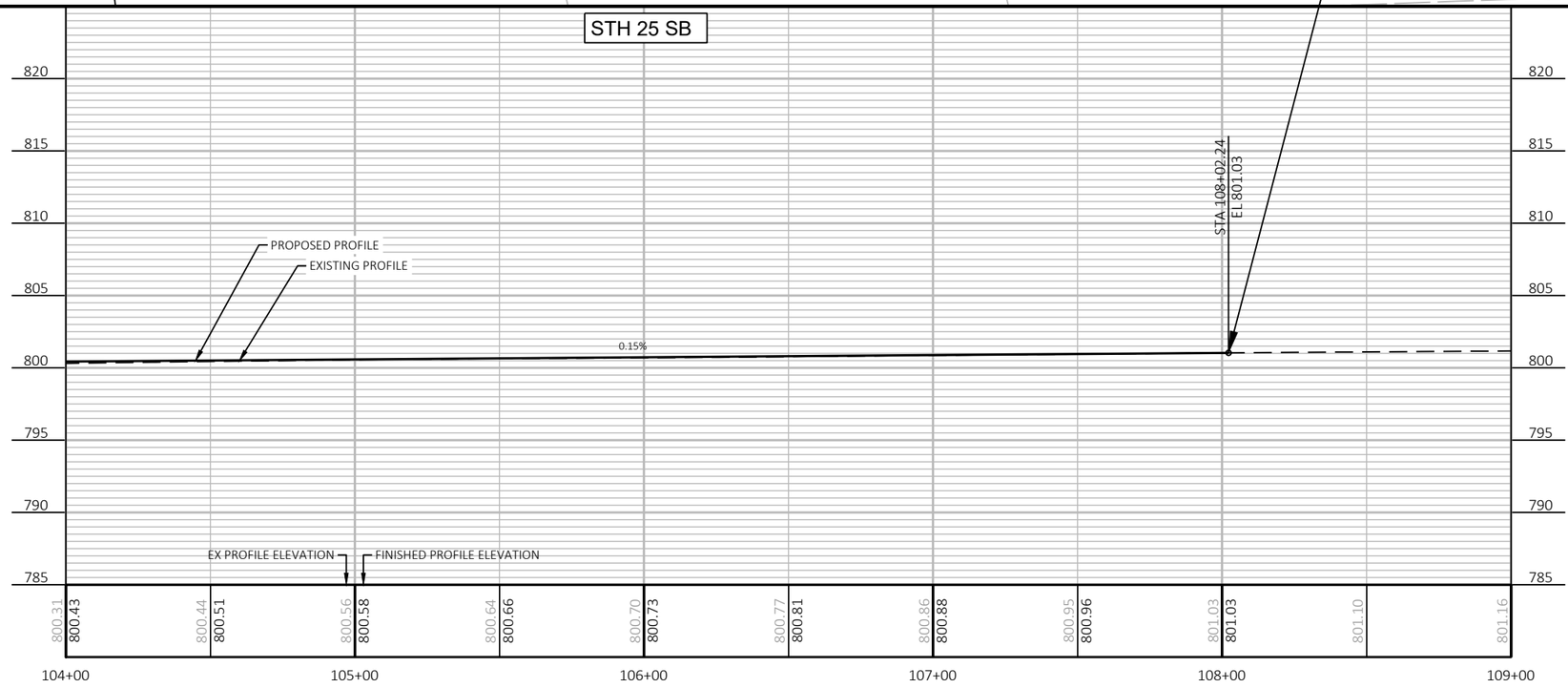


PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	PLAN AND PROFILE: STH 25	SHEET 78	E



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
3	378+44.24	767.73 LT	282296.351	610532.786	798.57

NOTE:
SEE ALIGNMENT DETAILS FOR CURVE DATA AND BEARINGS



PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	PLAN AND PROFILE: STH 25	SHEET 79 E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\050102-PP.DWG
LAYOUT NAME - 05
PLOT DATE : 8/1/2025 7:08 AM
PLOT BY : CORY IHDE
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

DANIEL J ANIBAS

MDMA EQUIPMENT DEALERS INC

THOMAS J GIANFORTE

NTEC

PIERCE PEPIN COOP

WE ENERGIES-GAS

PROPOSED R/W (TYP)

T.L.E.

EXISTING R/W (TYP)

CHIPPEWA VALLEY CABLE

STA 101+40
CPRC CLASS IV 24-INCH REQUIRED
SKEW 4° RHF

STH 25

SLOPE INTERCEPT (TYP)

BM 50

USH 10 WB R/L

USH 10 EB R/L

USH 10 WB

USH 10 EB

376WB

376EB

378WB

378EB

380WB

380EB

382WB

382EB

CP 2

CP 1

DAVID E & KRISTINE A POLZER

STA 376+76
CPRC CLASS IV 24-INCH REQUIRED
SKEW 0°

NOTE:
SEE ALIGNMENT DETAILS FOR
CURVE DATA AND BEARINGS

LEGEND:
XXXXX SAWING ASPHALT
YYYYY SAWING CONCRETE

ROUNDABOUT

VCL = 75.00
K = 25.00

PROPOSED PROFILE
EXISTING PROFILE

STA 10+00.00
EL 800.50

LP STA 10+75.00
LP EL 799.66

VPC STA 10+37.50
VPC EL 799.94

VPI STA 10+75.00
VPI EL 799.37

VPT STA 11+12.50
VPT EL 799.94

VPC STA 11+91.50
VPC EL 801.12

VPI STA 12+41.50
VPI EL 801.87

VPT STA 12+91.50
VPT EL 801.12

STA 13+33.01
EL 800.50

HP STA 12+41.60
HP EL 801.50

VCL = 100.00
K = 33.33

-1.50%
1.50%
-1.50%

EX PROFILE ELEVATION
FINISHED PROFILE ELEVATION

800.05	800.50		
798.92	799.78		
799.76	799.78		
799.60	800.50		
799.42	801.24		
799.74	801.49		
800.21	801.00		

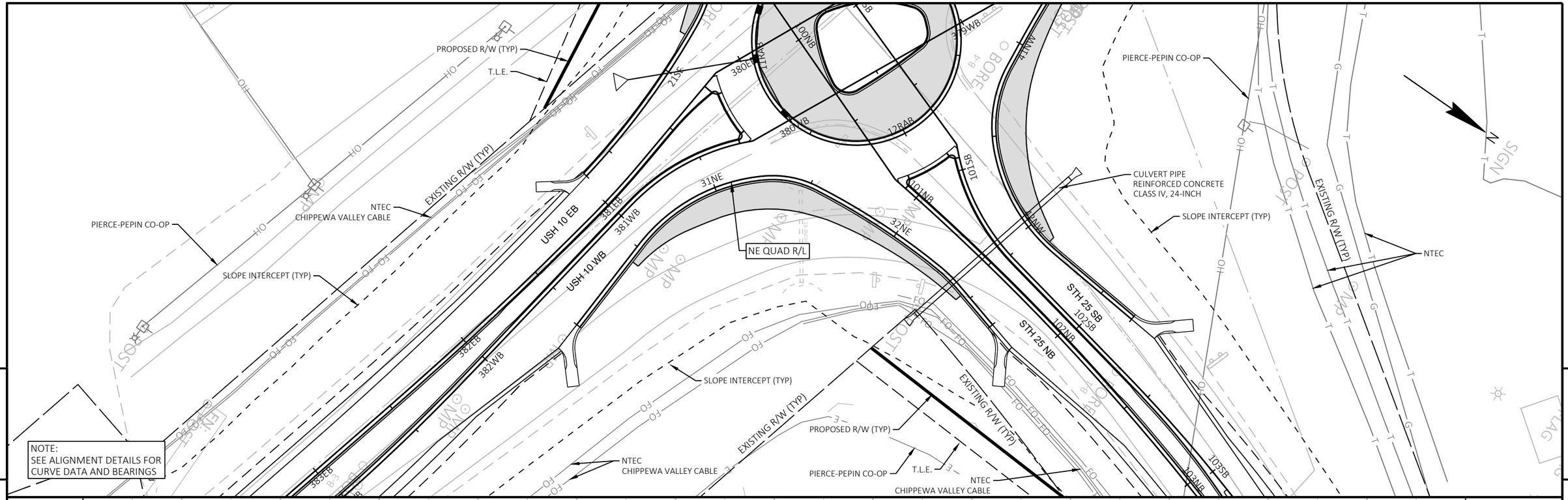
9+00 10+00 11+00 12+00 13+00 14+00 15+00

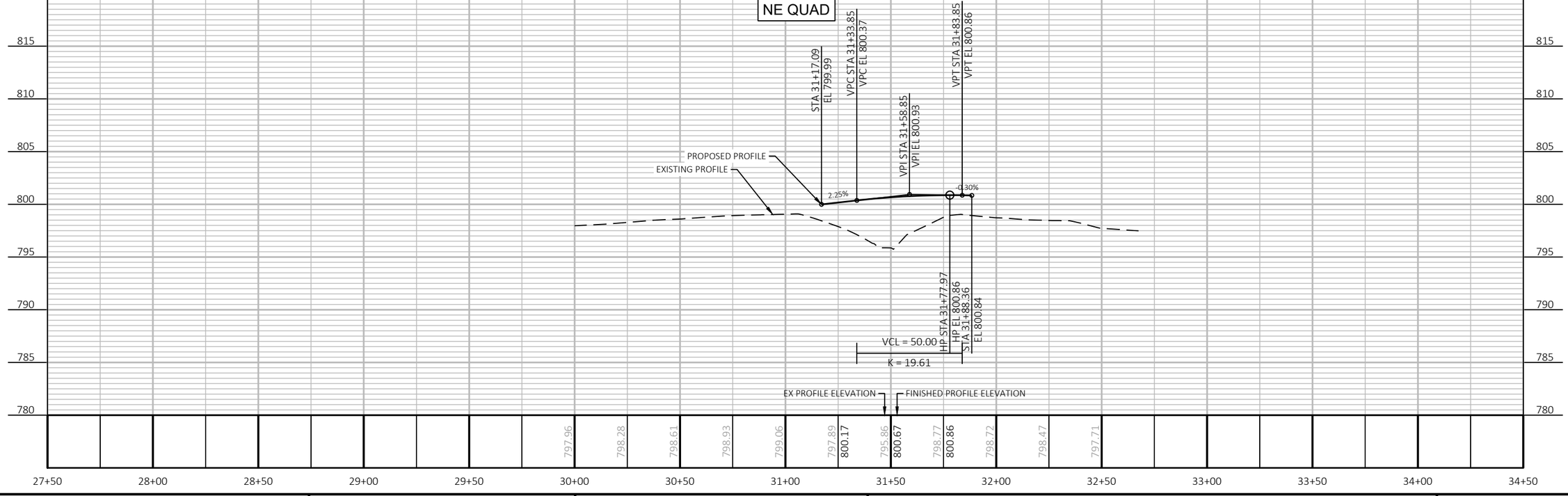
810 805 800 795 790

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	PLAN AND PROFILE: ROUNDABOUT	SHEET 80	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\050103-PP.DWG
LAYOUT NAME - 06

PLOT DATE : 8/1/2025 7:10 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:50 FT



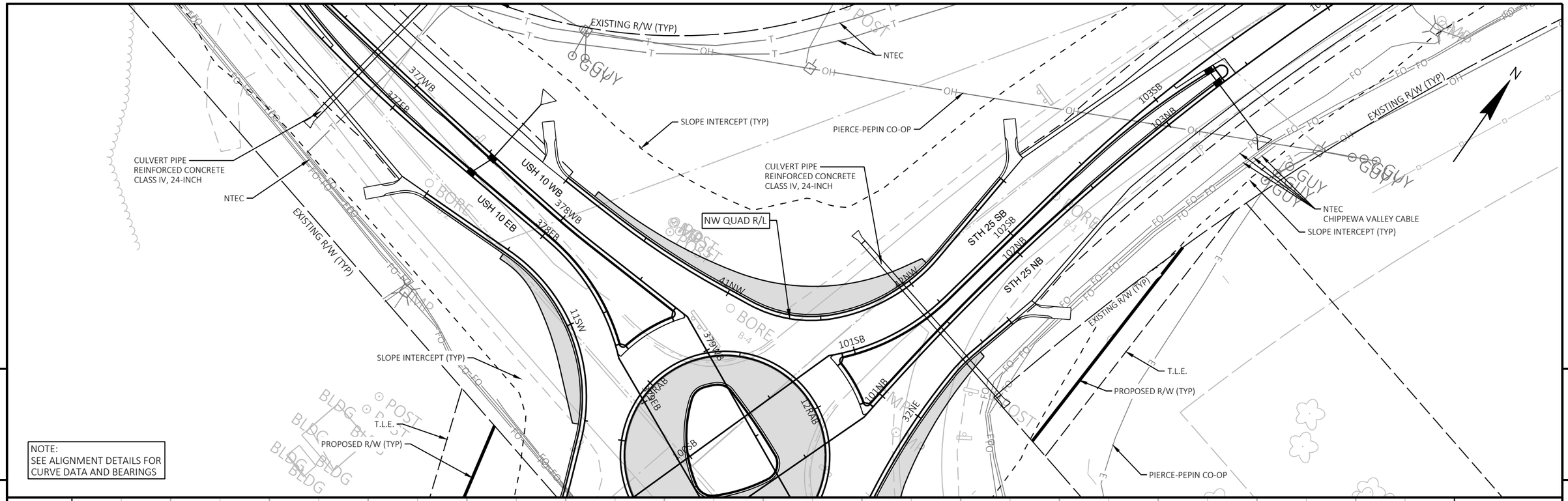


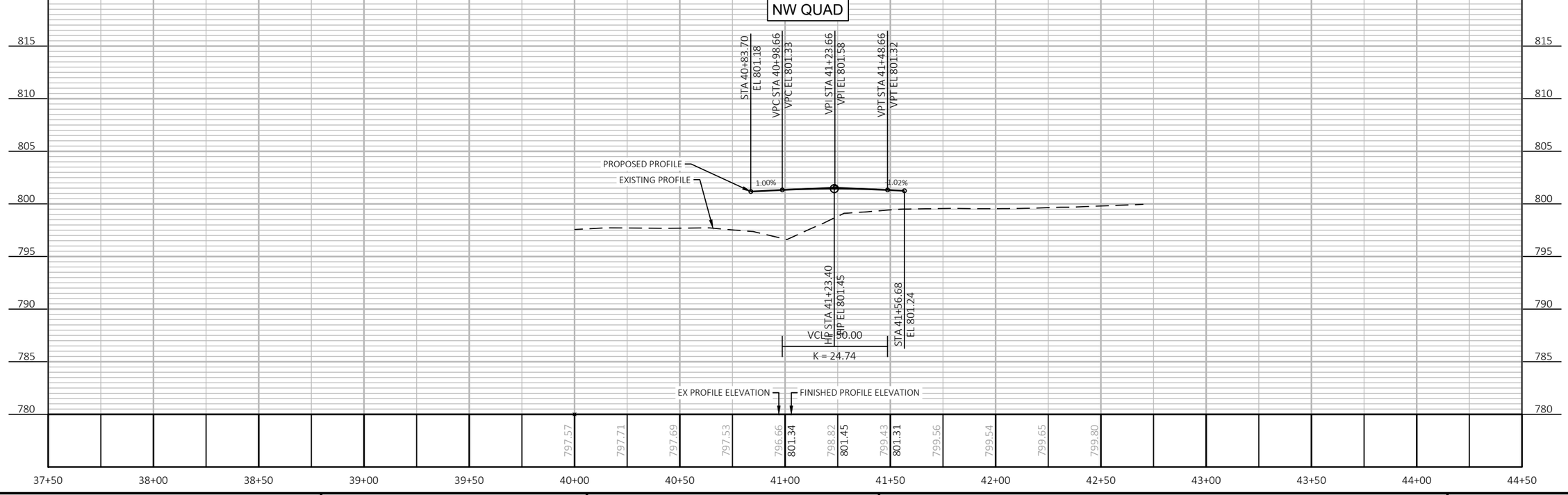
PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	PLAN AND PROFILE: USH 10- STH 25 CURB PROFILES	SHEET 81	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\050104-PP.DWG
LAYOUT NAME - 07

PLOT DATE : 8/1/2025 7:11 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44





PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	PLAN AND PROFILE: USH 10- STH 25 CURB PROFILES	SHEET 82 E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\050105-PP.DWG
LAYOUT NAME - 08
PLOT DATE : 8/1/2025 7:12 AM
PLOT BY : CORY IHDE
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

NTEC
CHIPPEWA VALLEY CABLE
SLOPE INTERCEPT (TYP)
PROPOSED R/W (TYP)
T.L.E.
SE QUAD R/L
SLOPE INTERCEPT (TYP)
EXISTING R/W (TYP)
PIERCE PEPIN COOP
STH 25 NB
USH 10 WB
USH 10 EB
EXISTING R/W (TYP)
SLOPE INTERCEPT (TYP)
NTEC
CHIPPEWA VALLEY CABLE
N

NOTE:
SEE ALIGNMENT DETAILS FOR
CURVE DATA AND BEARINGS

SE QUAD

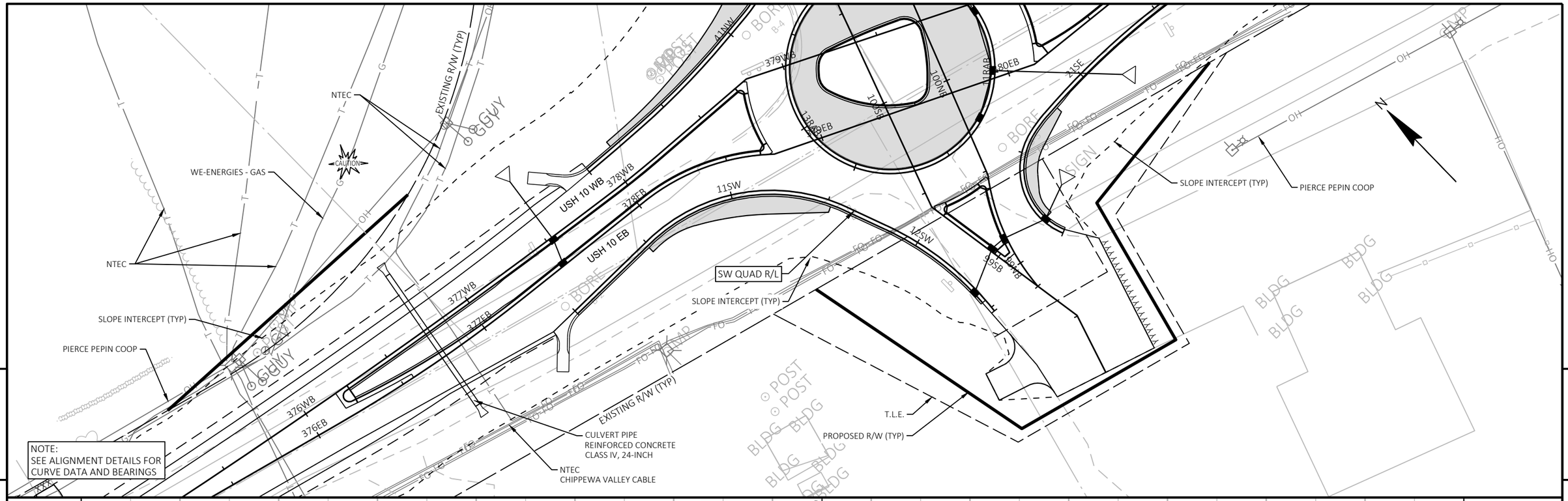
PROPOSED PROFILE
EXISTING PROFILE

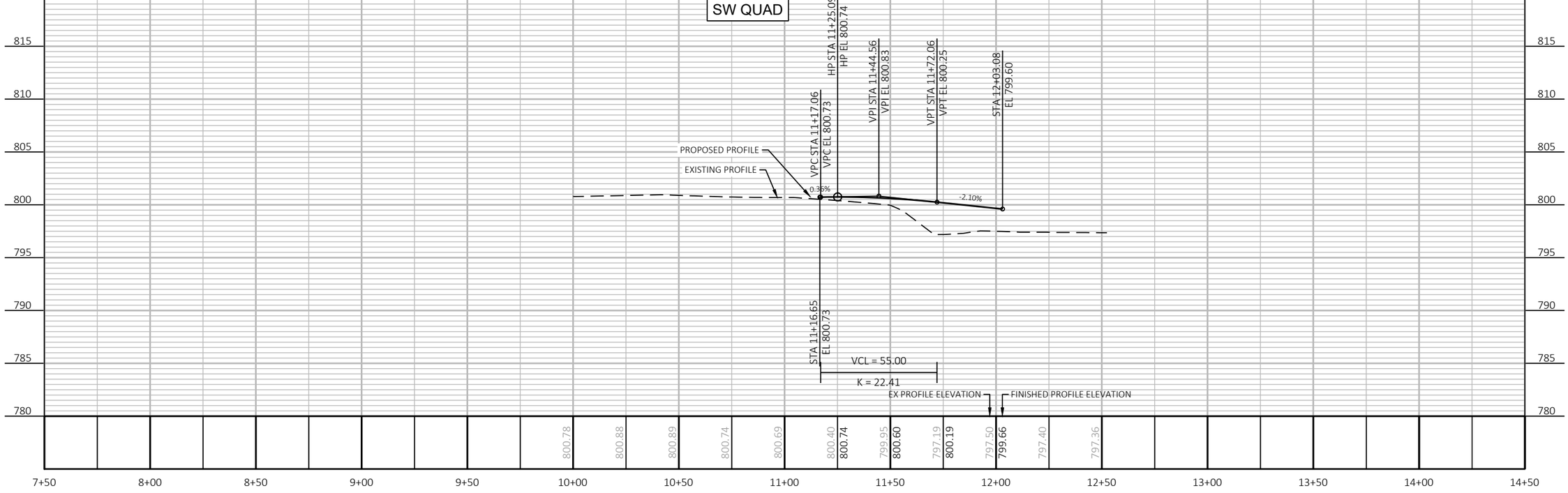
STA 20+34.82
EL 799.50
25%
VPC STA 20+42.37
VPC EL 799.59
VPI STA 20+59.87
VPI EL 799.81
HP STA 20+63.83
HP EL 799.73
VPT STA 20+77.37
VPT EL 799.67
-0.79%
1.15%
STA 20+91.13
EL 799.56
STA 20+93.79
EL 799.53

VCL = 35.00
K = 17.17

EX PROFILE ELEVATION
FINISHED PROFILE ELEVATION

| | | |





PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	PLAN AND PROFILE: USH 10- STH 25 CURB PROFILES	SHEET 84 E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\050107-PP.DWG
LAYOUT NAME - 10

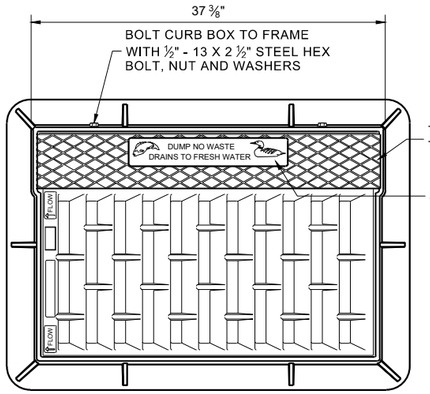
PLOT DATE : 8/1/2025 7:14 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

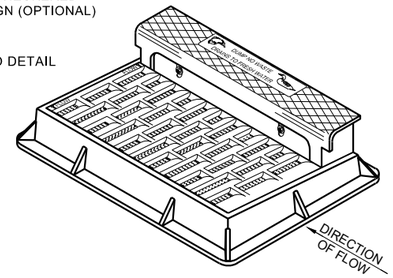
Standard Detail Drawing List

08A05-22A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-22B	INLET COVERS TYPE B, B-A, C, MS, MS-A, DW & WM
08A05-22C	INLET COVERS TYPE F, HM, HM-S, S, T, HM-GJ & HM-GJ-S
08A05-22E	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-04	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT, 10-FT DIAMETER
08C06-03	INLETS 3-FT AND 4-FT DIAMETER
08C07-03	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT, 2.5X3-FT & 2X3.5-FT
08D01-24A	CONCRETE CURB & GUTTER
08D01-24B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D04-07	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
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
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09B02-10	CONDUIT
09B16-03	PULL BOX NON-CONDUCTIVE
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C14-03	CONCRETE CONTROL CABINET BASE, TYPE L
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D04-03	LIGHTING CONTROL CABINET 120/240 VOLT
09E01-15D	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)
09E01-15G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E03-06	NON-FREEWAY LIGHTING UNIT POLE WIRING
11B02-02	CONCRETE MEDIAN NOSE
13A10-03A	SHOULDER RUMBLE STRIPS - ASPHALT
13A10-03G	SHOULDER AND EDGE LINE RUMBLE STRIPS - CROSSINGS, INTERSECTIONS, BRIDGES, DRIVEWAYS
13A10-03H	SHOULDER AND EDGE LINE RUMBLE STRIPS - RAILROAD, PASSING, CLIMBING AND BYPASS LANES
13A11-04A	CENTERLINE RUMBLE STRIPS - ASPHALT
13A11-04D	CENTERLINE RUMBLE STRIPS - INTERSECTIONS, DRIVEWAYS, BRIDGES, RAILROADS
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C11-14A	RURAL DOWELED CONCRETE PAVEMENT
13C11-14B	RURAL DOWELED CONCRETE PAVEMENT
13C13-11	URBAN DOWELED CONCRETE PAVEMENT
13C18-08A	CONCRETE PAVEMENT JOINTING
13C18-08B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-08C	CONCRETE PAVEMENT JOINT TYPES
13C18-08D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
13C18-08E	CONCRETE PAVEMENT JOINTING AND STEEL REINFORCEMENT IN ROUNDABOUTS
13C19-03	HMA LONGITUDINAL JOINTS
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-09F	ADVANCED WIDTH RESTRICTION SIGNING
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-24A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C08-24B	TEMPORARY LONGITUDINAL PAVEMENT MARKING
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C18-09A	MEDIAN ISLAND PAVEMENT MARKINGS
15C18-09B	PAVEMENT MARKINGS, MEDIAN ISLAND NOSE
15C18-09C	MEDIAN PAVEMENT MARKINGS DOUBLE ARROW WARNING SIGN PLACEMENT
15D21-07A	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D29-06	TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD
15D37-03	TRAFFIC CONTROL, 2-LANE ROUNDABOUT
15D39-03	TRAFFIC CONTROL, DROP-OFF SIGNING
15D44-02	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES
15D47-03B	TRAFFIC CONTROL, INGRESS/EGRESS WITHOUT BARRIER
15D51-01	TRAFFIC CONTROL, MOBILE OPERATIONS ON AN UNDIVIDED ROADWAY
16A02-01	GEODETIC SURVEY MONUMENT

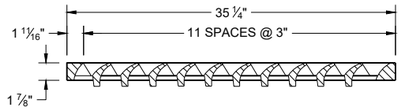
6

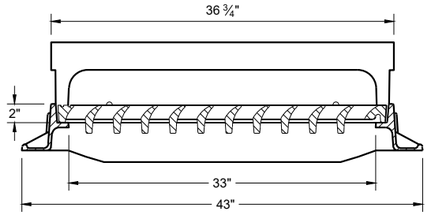


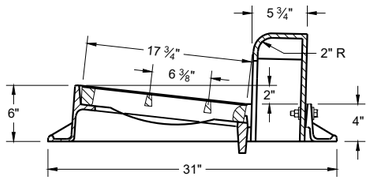
NOTE: EITHER CASTING IS ACCEPTABLE

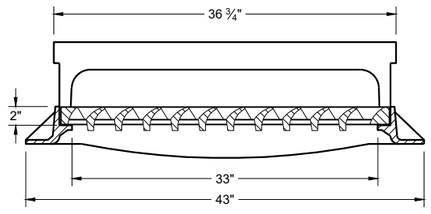


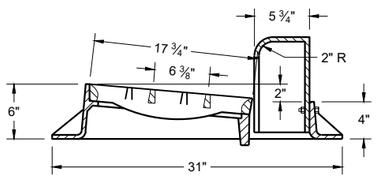
NOTE: CURB BOX HEIGHT ADJUSTABLE 6" - 9"







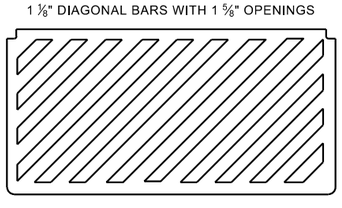




TYPE "H"

NOTE: EITHER CASTING IS ACCEPTABLE

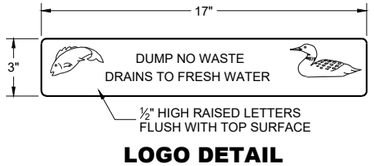
1 ⅛" DIAGONAL BARS WITH 1 ⅝" OPENINGS



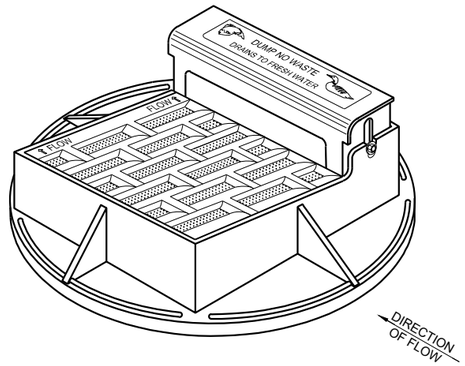
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35" X 17 ¾" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)

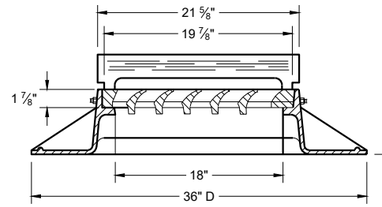


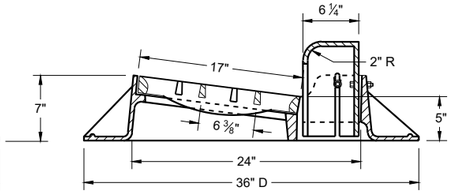
LOGO DETAIL



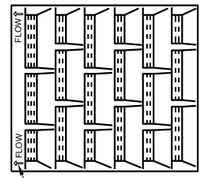
NOTE: CURB BOX HEIGHT ADJUSTABLE 6" - 9"

NOTE: EITHER CASTING IS ACCEPTABLE

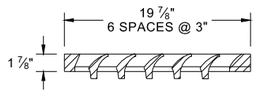




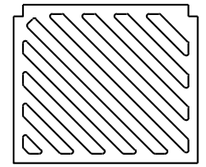
TYPE "A"



DIRECTION OF FLOW ARROWS



1" DIAGONAL BARS
WITH 1 ½" OPENINGS



SPECIAL GRATE FOR TYPE "A" COVER

(MEASURES 19 ¾" X 17" X 1 ⅞")

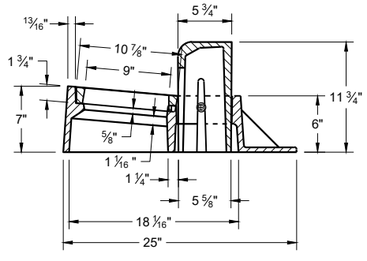
(NOTED AS TYPE A-S ON DRAINAGE TABLE)

GENERAL NOTES

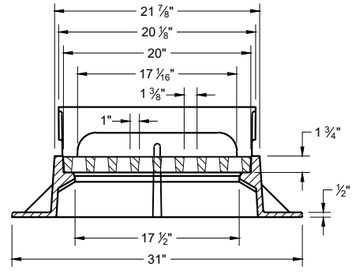
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

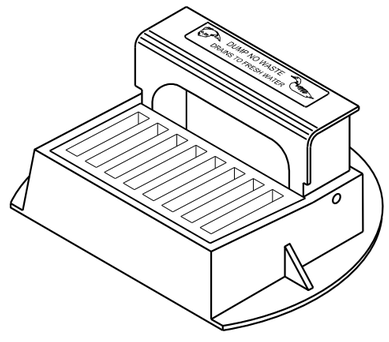
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

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



TYPE "Z"





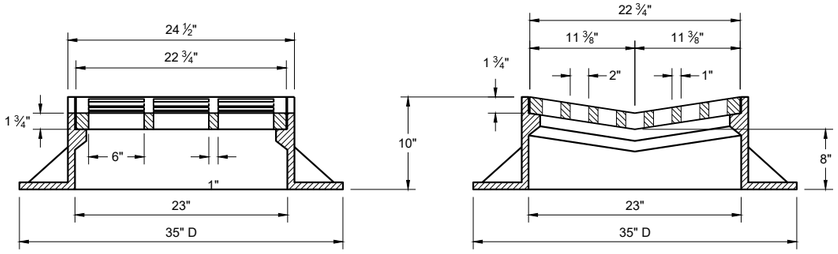
INLET COVERS
TYPES A, H, A-S, H-S AND Z

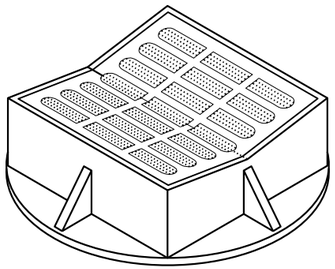
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025
DATE

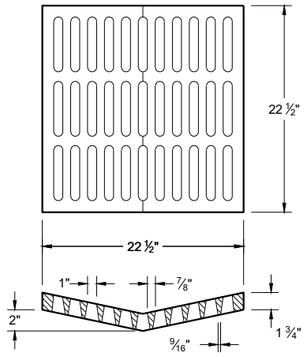
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

FHWA





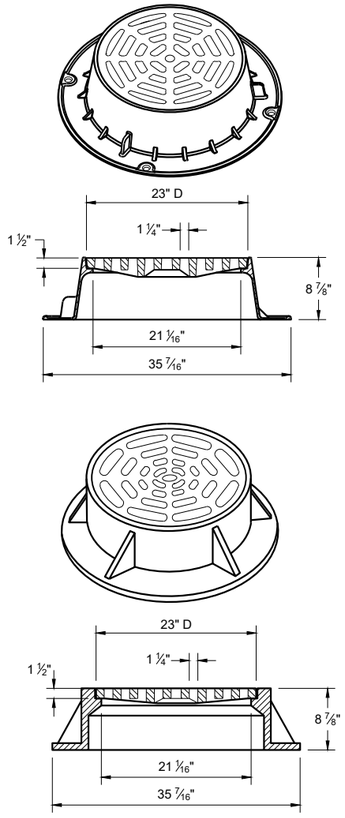
TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OF BICYCLE TRAFFIC IS POSSIBLE

NOTED AS TYPE B - A ON THE DRAINAGE TABLE



TYPE "C"

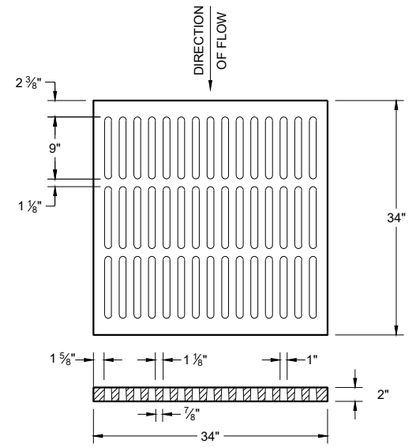
NOTE: EITHER CASTING IS ACCEPTABLE

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.

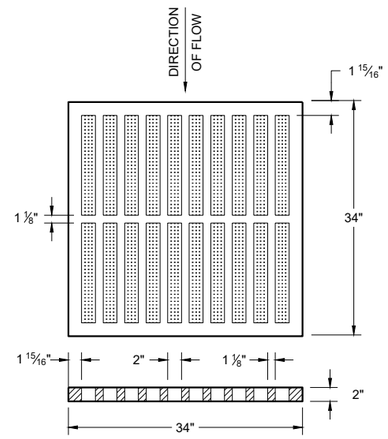
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OF BICYCLE TRAFFIC IS PERMITTED

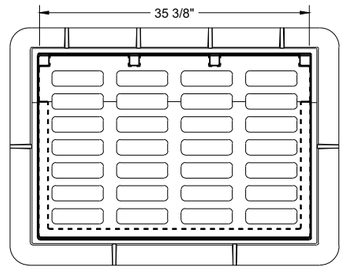
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

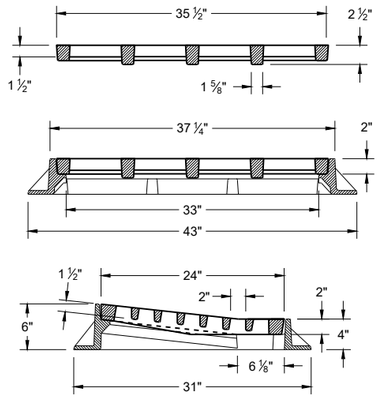


TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS

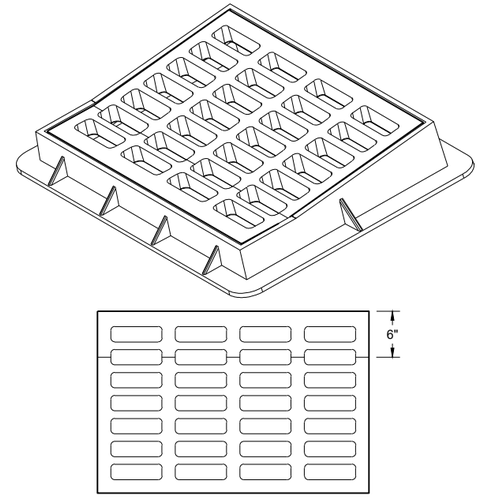
NOTED AS TYPE MS ON THE DRAINAGE TABLE

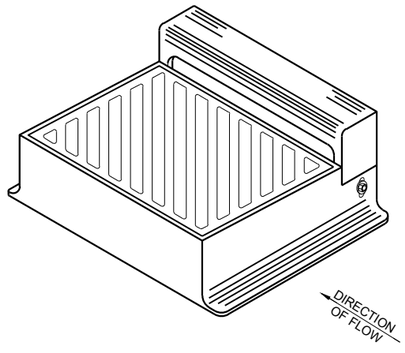




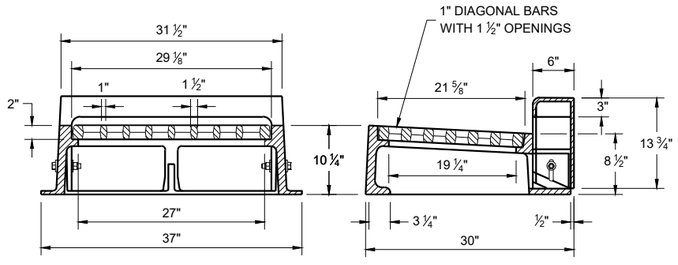
TYPE "DW"

NOTES: FOR USE IN A SUMP CONDITION. THIS OPTION IS ONLY TO BE USED IF NO OTHER INLETS ARE APPLICABLE.





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



TYPE "WM"

NOTE: CURB BOX HEIGHT ADJUSTABLE 6" - 9"

INLET COVERS TYPES B, B-A, C, MS, MS-A ,DW AND WM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

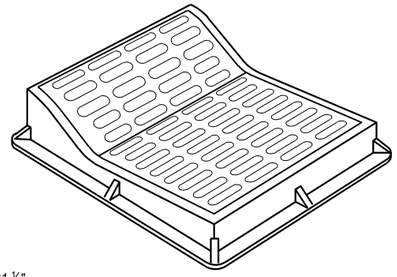
6

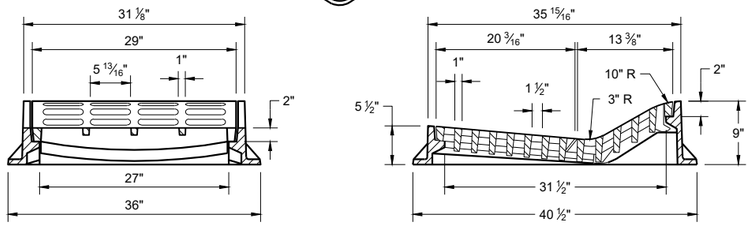
SDD 08A05-22b

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.

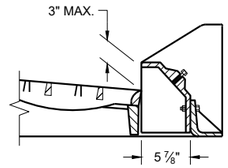
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.





TYPE "F"

USE WITH TYPES "A" AND "D" CONCRETE CURB AND GUTTER, 36"

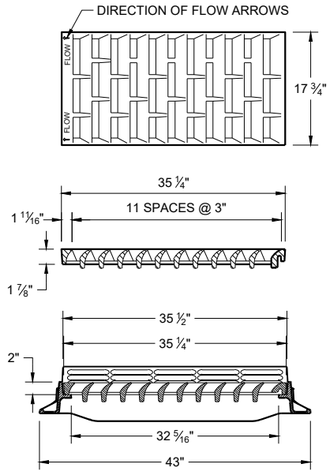


ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

USE WITH TYPES "G" AND "J" CONCRETE CURB AND GUTTER, 30 INCH
NOTED AS TYP "HM-GJ" ON DRAINAGE TABLE

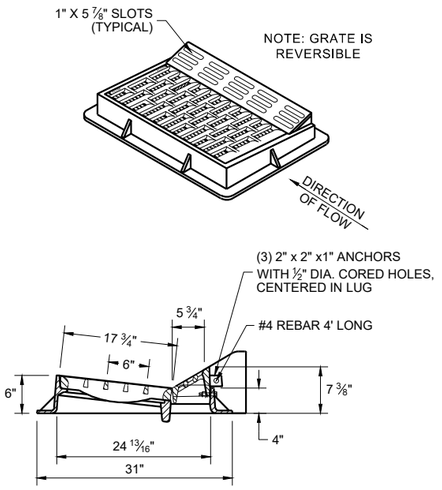
NOTE:
SPECIAL GRATE FOR THE TYPE "H" COVER MAY ALSO BE USED FOR THE TYPE "HM-GJ" COVER.

NOTED AS TYPE HM-GJ-S ON THE DRAINAGE TABLE.



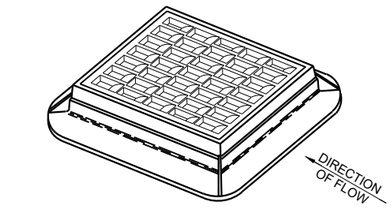
TYPE "HM"

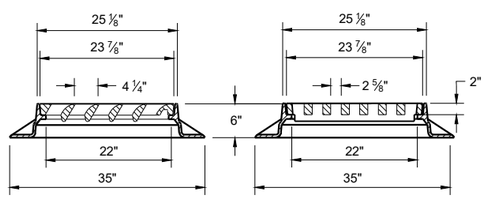
USE WITH TYPES "A" AND "D" CONCRETE CURB AND GUTTER, 36"



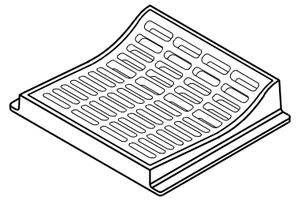
NOTE:
SPECIAL GRATE FOR THE TYPE "H" COVER MAY ALSO BE USED FOR THE TYPE "HM-GJ" COVER.

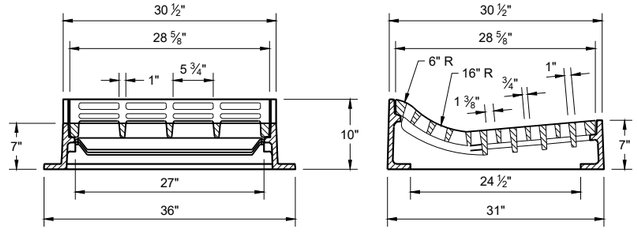
NOTED AS TYPE HM-GJ-S ON THE DRAINAGE TABLE.





TYPE "S"





TYPE "T"

USE WITH TYPES "R" AND "T" CONCRETE CURB AND GUTTER, 36"

INLET COVERS
TYPES F, HM, HM-S, S, T, HM-GJ AND HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

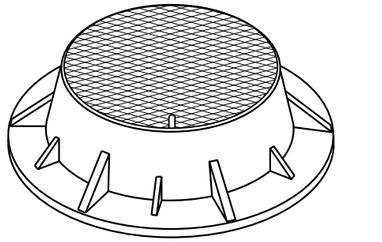
6
SDD 08A05-22c

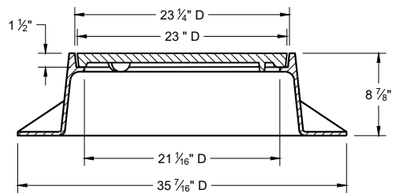
GENERAL NOTES

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

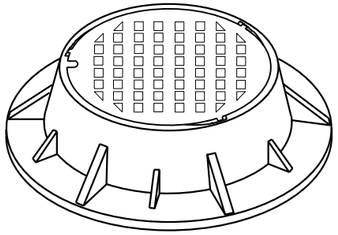
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

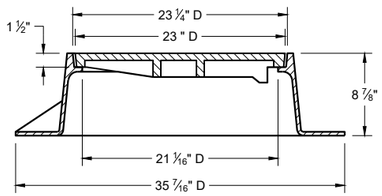




TYPE "J"

NOTE: EITHER CASTING IS ACCEPTABLE

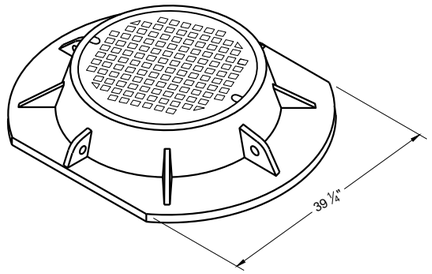


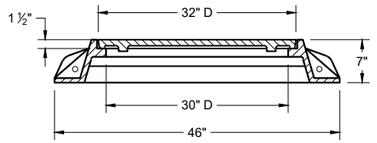


TYPE "J" SPECIAL

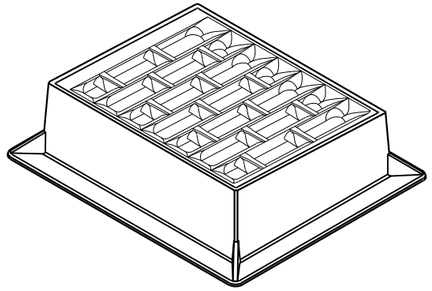
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)

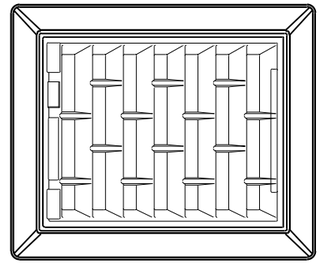
NOTE: EITHER CASTING IS ACCEPTABLE

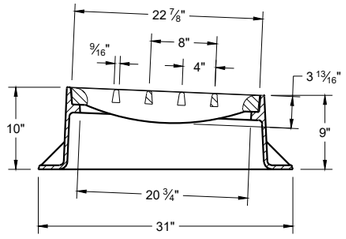


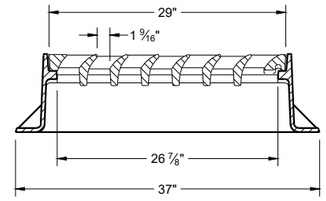


TYPE "K"

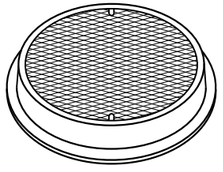


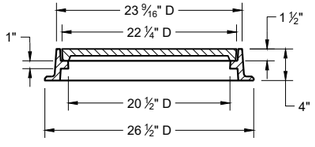




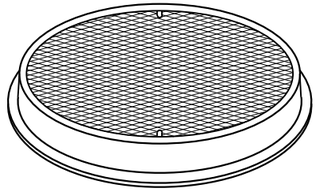


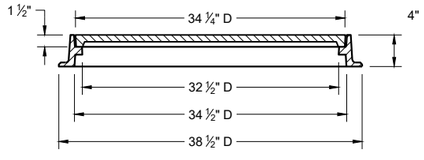
INLET COVER TYPE "BW"





TYPE "L"





TYPE "M"

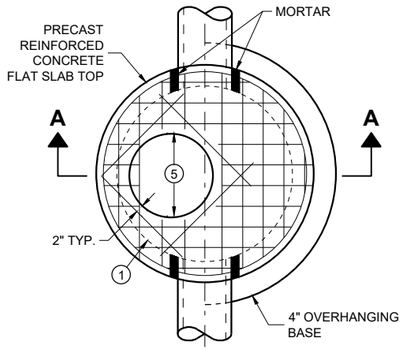
INLET COVERS TYPES BW
MANHOLE COVERS TYPES K, J, J-S, L, AND M

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

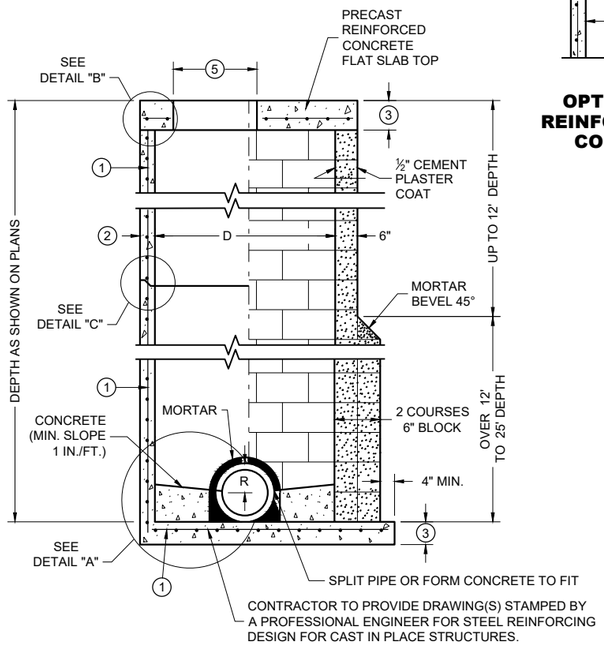
FHWA

6
SDD 08A05-22e



PLAN VIEW

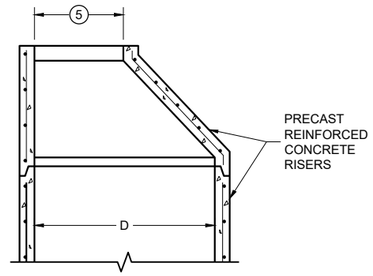
CIRCULAR OPENING



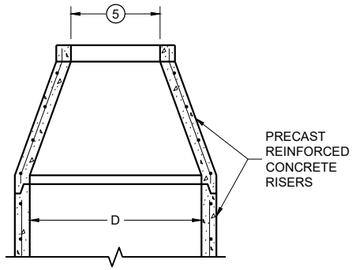
SECTION A - A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE (1)



OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP



OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

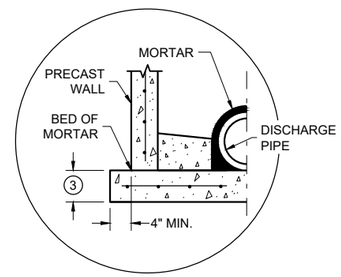
MANHOLE COVER OPENING MATRIX

OPENING SIZE (FT.) (5) \ MANHOLE COVER TYPE	C	ALL J'S	K	L	M
2 DIA.	X	X		X	
3 DIA.			X		X

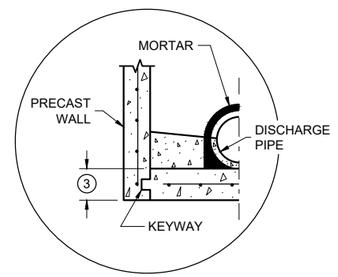
PIPE MATRIX

MANHOLE SIZE (DIA.)	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES		MINIMUM WALL THICKNESS (IN)	MINIMUM PRECAST FLAT SLAB TOP AND BASE THICKNESS
	180° SEPARATION (IN)	90° SEPARATION (IN)		
3-FT	15	12	4	6
4-FT	24	18	4	6
5-FT	36	24	5	8
6-FT	42	36	6	8
7-FT	48	36/42 *	7	8
8-FT	60	42	8	8
9-FT	66	54	9	10
10-FT	72	60	10	10

*A 36" PIPE AND A 42" PIPE CAN BE PLACED WITHIN 90 DEGREES. SEE MINIMUM HORIZONTAL PIPE SEPARATION DETAIL.

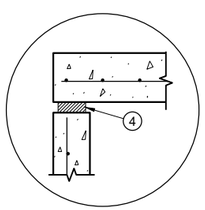


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

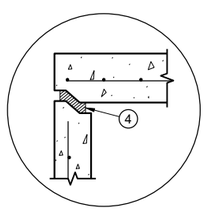


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

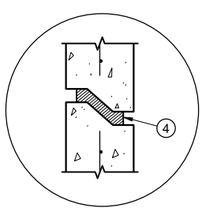
DETAIL "A"



TOP WITH PLAIN END JOINT



TOP WITH TONGUE AND GROOVE JOINT



RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

DETAIL "C"

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 MANHOLE 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.

PRECAST REINFORCED CONCRETE CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES. CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL IMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½ INCH AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

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

ALL PRECAST MANHOLE 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.

CONCRETE BLOCK WILL NOT BE PERMITTED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

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 "D".

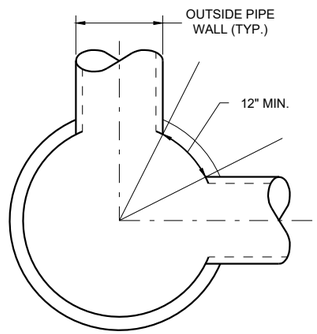
(1) FOR PRECAST MANHOLES AND REINFORCED CONCRETE BASES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

(2) SEE PIPE MATRIX TABLE FOR MINIMUM WALL THICKNESS FOR PRECAST MANHOLES

(3) SEE PIPE MATRIX TABLE FOR MINIMUM THICKNESS OF PRECAST FLAT SLAB TOPS AND BASES.

(4) JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 OR RUBBER GASKETS CONFORMING TO ASTM C443.

(5) SEE MANHOLE COVER OPENING MATRIX.



MINIMUM HORIZONTAL PIPE SEPARATION

DETAIL "D"

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT AND 10-FT DIAMETER

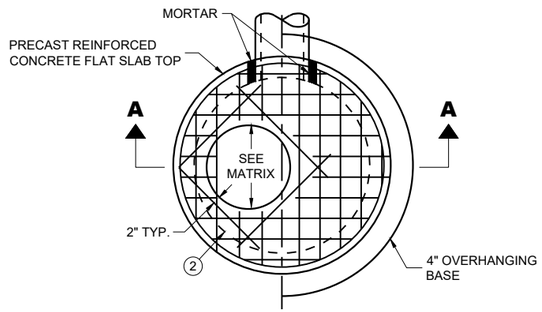
MANHOLES, 3-FT, 4-FT 5-FT, 6-FT, 7-FT, 8-FT, 9-FT AND 10-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

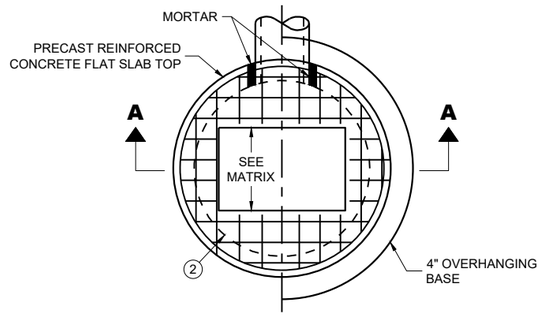
APPROVED
December 2023 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

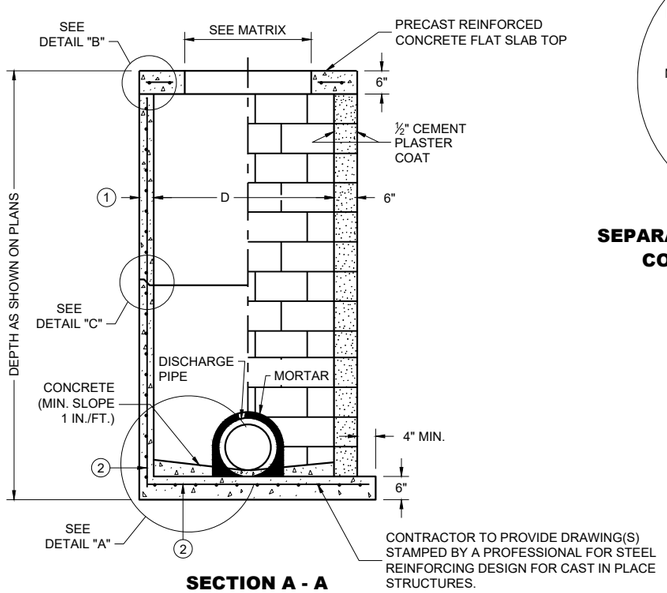
6
SDD 08B09-04



PLAN VIEW CIRCULAR OPENING



PLAN VIEW RECTANGULAR OPENING



SECTION A - A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE (2)

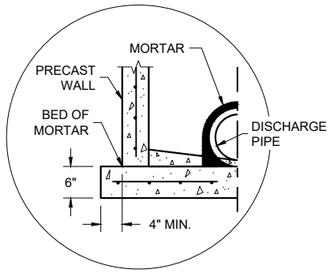
CIRCULAR INLETS WITH FLAT TOP

CATCH BASIN COVER OPENING MATRIX

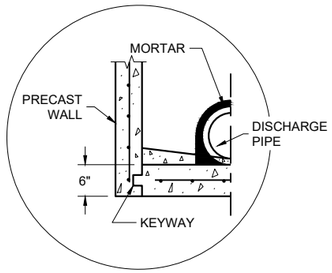
INLET SIZE	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
	OPENING SIZE (FT.)											
3-FT	2 DIA.				X							X
	2 X 2	X	X					X		X		
4-FT	2 DIA.				X							X
	2 X 2	X	X					X		X		
	2 X 2.5			X				X	X	X	X	
	2 X 3						X					
	2.5 X 3					X						

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

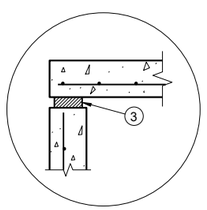


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

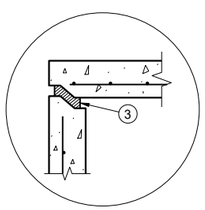


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

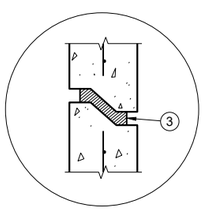
DETAIL "A"



TOP WITH PLAIN END JOINT



TOP WITH TONGUE AND GROOVE JOINT



RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B" **DETAIL "C"**

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.

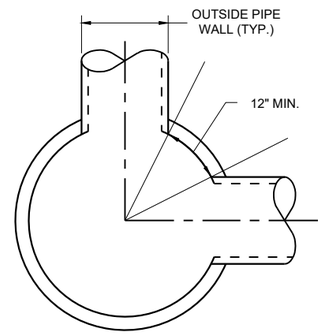
4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

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 "D".

(1) MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT DIAMETER AND 5 INCHES FOR 4-FT DIAMTER PRECAST INLETS.

(2) FOR PRECAST INLETS AND REINFORCED CONCRETE BASES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

(3) JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 OR RUBBER GASKETS CONFORMING TO ASTM C443.



MINIMUM HORIZONTAL PIPE SEPARATION

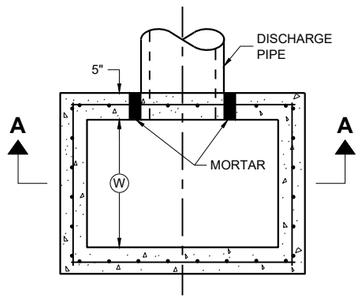
DETAIL "D"

INLETS 3-FT AND 4-FT DIAMETER

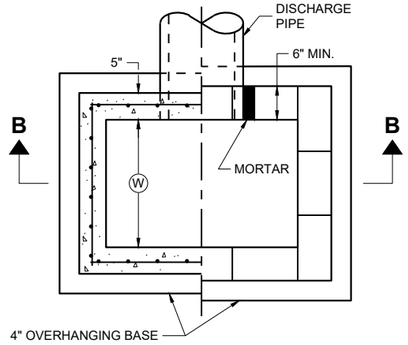
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2023 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

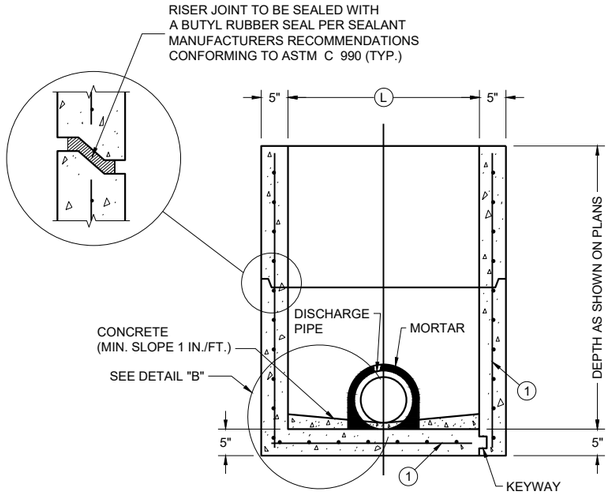
FHWA



PLAN VIEW



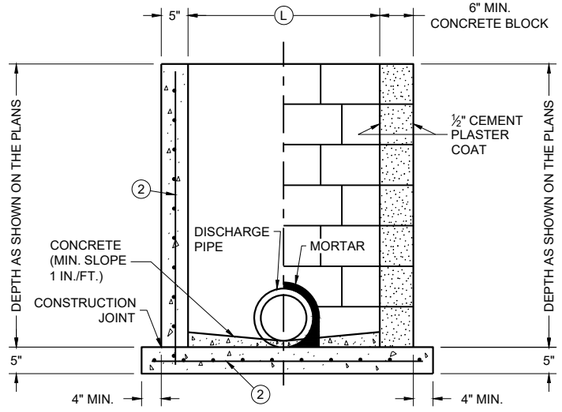
PLAN VIEW



PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE

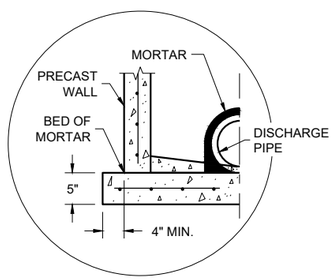
SECTION A - A



CAST IN PLACE REINFORCED CONCRETE

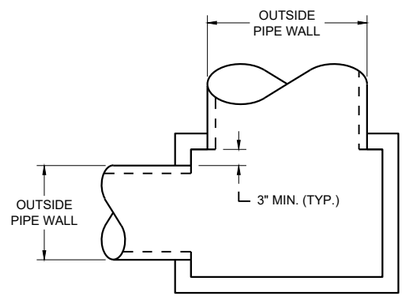
CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE (1)

SECTION B - B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "B"



DETAIL "A"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP N0T 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" 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 AND REINFORCED CONCRETE BASES 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.

CATCH BASIN COVER MATRIX

INLET SIZE	WIDTH (W) (FT.)	LENGTH (L) (FT.)	INLET COVER TYPE									
			ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM	V V-B
2 X 2-FT	2	2	X	X				X				
2 X 2.5-FT	2	2.5			X			X	X	X	X	
2 X 3-FT	2	3					X					
2.5 X 3-FT	2.5	3				X						
2 X 3.5-FT	2	3.5										X

PIPE MATRIX

CATCH BASIN SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	WIDTH (IN)	LENGTH (IN)
2 X 2-FT	12	12
2 X 2.5-FT	12	18
2 X 3-FT	12	24
2.5 X 3-FT	18	24
2 X 3.5-FT	12	30

INLETS 2 X 2-FT, 2 X 2.5-FT, 2 X 3-FT, 2.5 X 3-FT AND 2X3.5-FT

INLETS 2 X 2-FT, 2 X 2.5-FT, 2 X 3-FT, 2.5 X 3-FT AND 2 X 3.5-FT

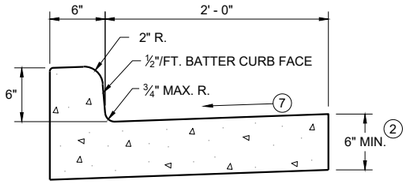
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2023
DATE

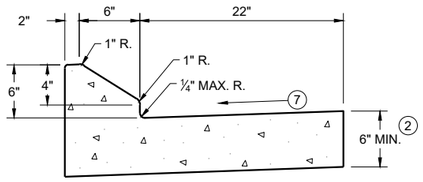
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

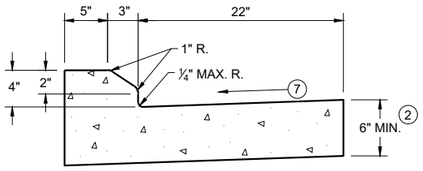
6
SDD 08C07-03



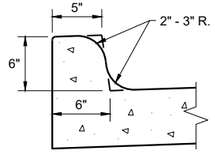
TYPES A (1) & D



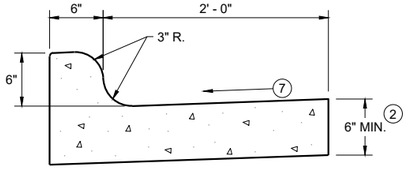
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

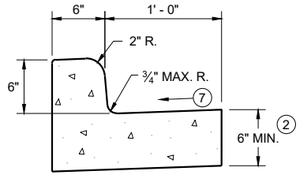


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



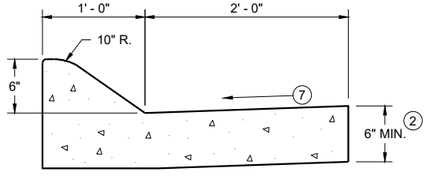
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"

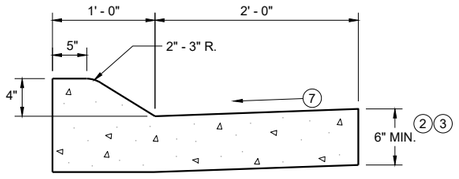


TYPES A (1) & D

CONCRETE CURB AND GUTTER 18"

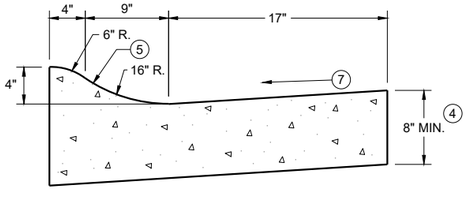


6" SLOPED CURB TYPES A (1) & D



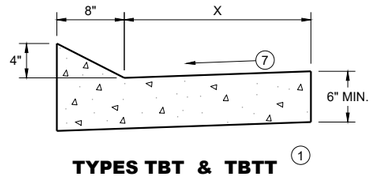
4" SLOPED CURB TYPES A (1) & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R (1) & T
CONCRETE CURB AND GUTTER 30"

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

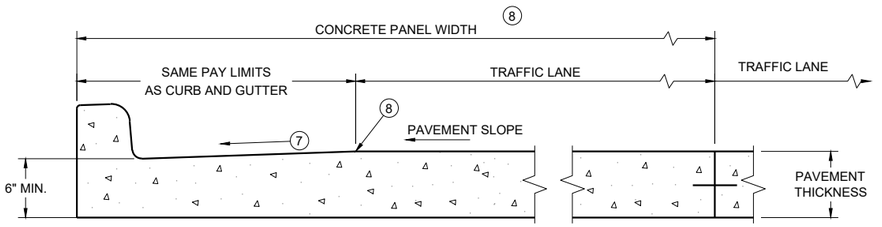


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

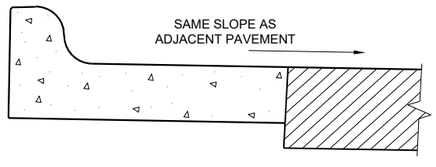
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

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.

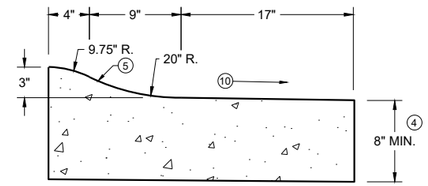
(5) UNLESS OTHERWISE NOTED, FOR STAKING PURPOSES THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

(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.

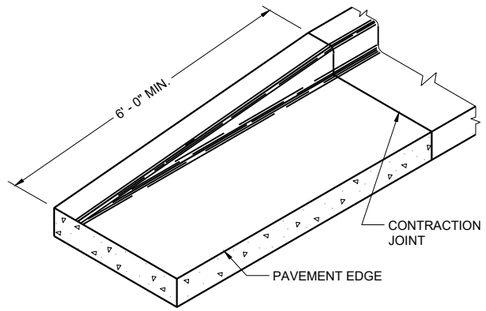
(9) SLOPE TO BE REVERSE SLOPE MATCHING THE SLOPE OF THE PAVEMENT AND THE CIRCULATORY ROADWAY



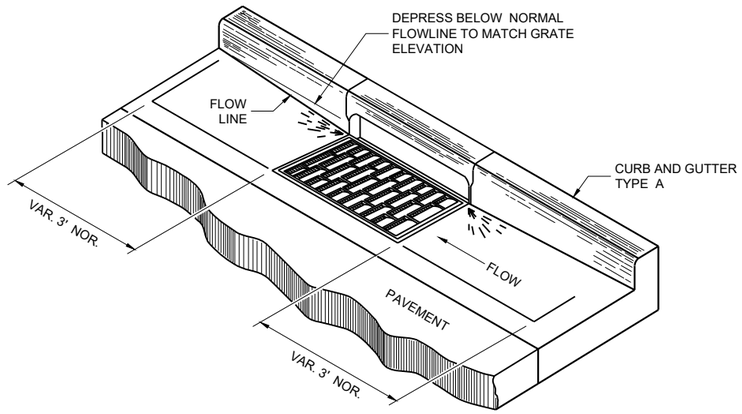
3" SLOPED CURB TYPES R (1) & T

CONCRETE CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



END SECTION CURB 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.

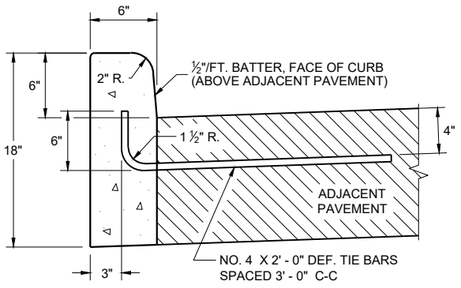
UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

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

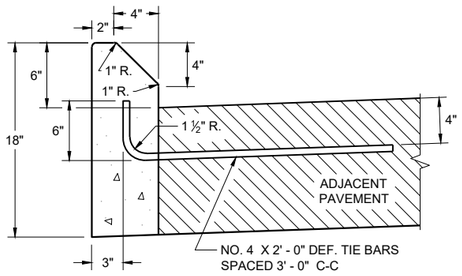
(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

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

(11) PLACE 1" THICK EXPANSION JOINT MATERIAL BETWEEN VERTICAL FACE CURB TYPES EXTENDING FROM THE TOP OF CURB TO 1 INCH BELOW THE ADJOINING CONCRETE SURFACE. RIGID CONCRETE STRUCTURES INCLUDE RAISED CONCRETE MEDIANS, CONCRETE SAFETY ISLANDS, SPLITTER ISLANDS, OR LOCATIONS IDENTIFIED ON THE PLANS.

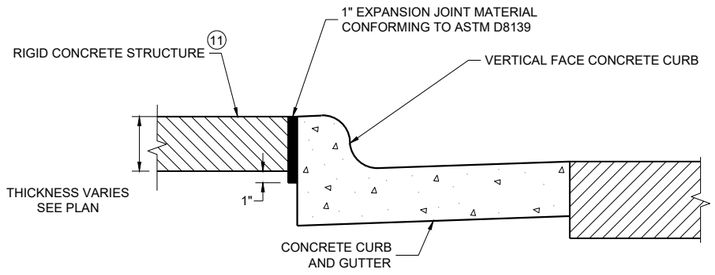


TYPES A (1) & D

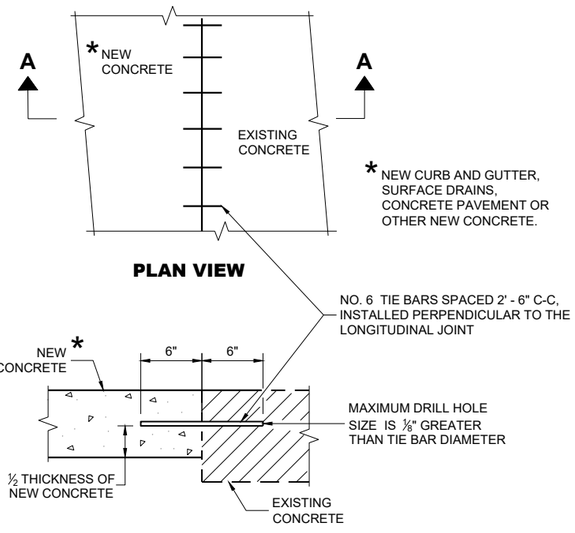


TYPES G (1) & J

CONCRETE CURB



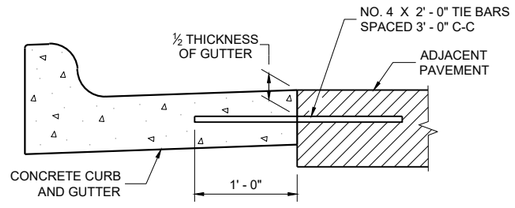
EXPANSION JOINT DETAIL FOR VERTICAL CURB ABUTTING A RIGID STRUCTURE (11)



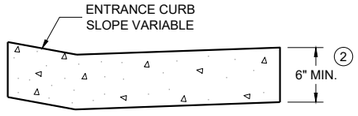
PLAN VIEW

SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT



TYPICAL TIE BAR LOCATION (1)



DRIVEWAY ENTRANCE CURB (10)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 — DATE
/S/ Rodnery Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

6

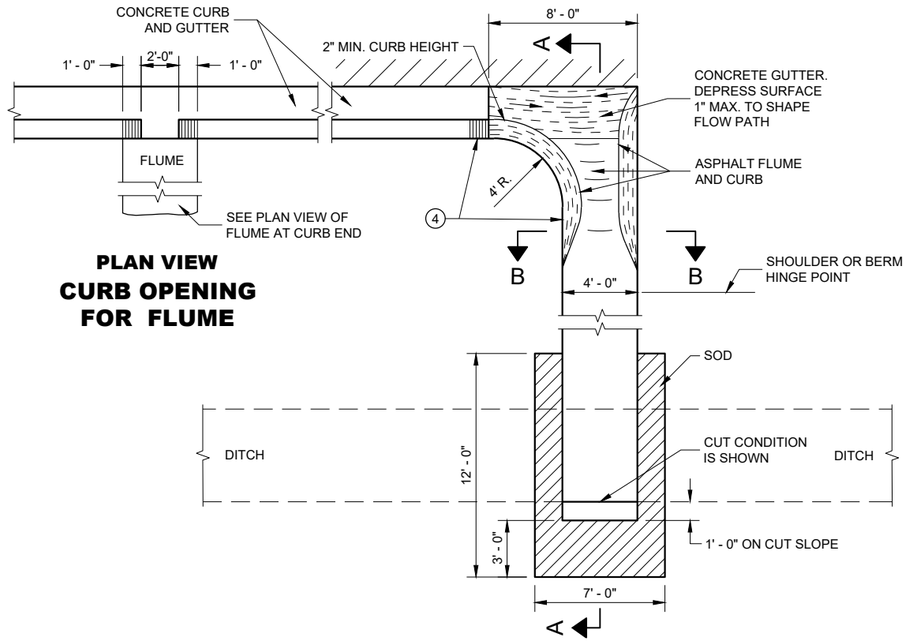
SDD 08D01-24b

6

SDD 08D01-24b

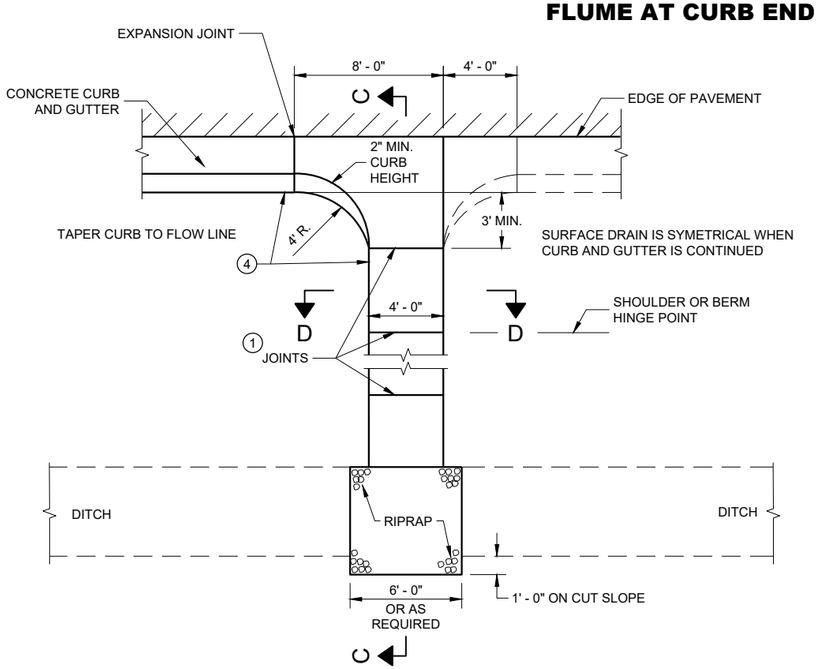
NOTE: TAPER CURB ENDS TO GUTTER IN 1' - 0"

ASPHALTIC FLUME



PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



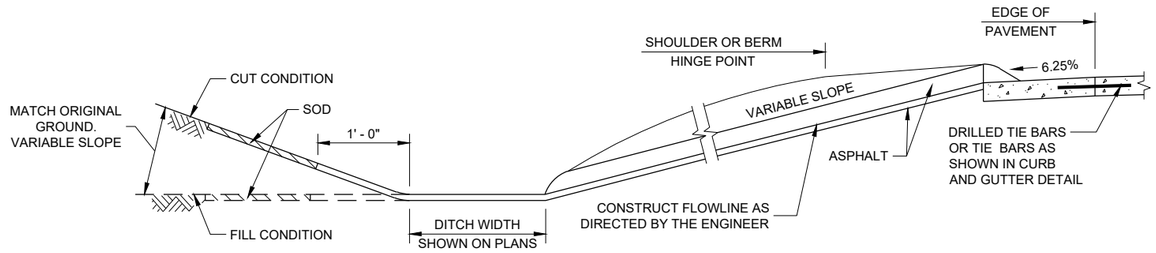
PLAN VIEW
CONCRETE SURFACE DRAIN

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.

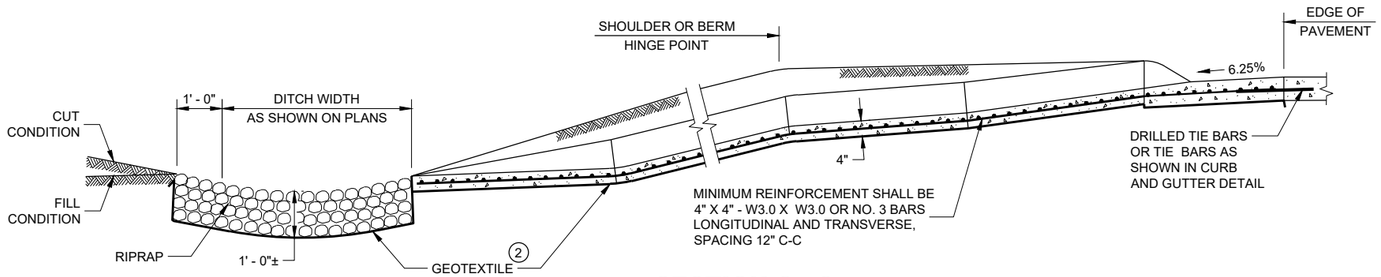
4" X 4" - W3.0 X W3.0 CONCRETE REINFORCEMENT SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

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.

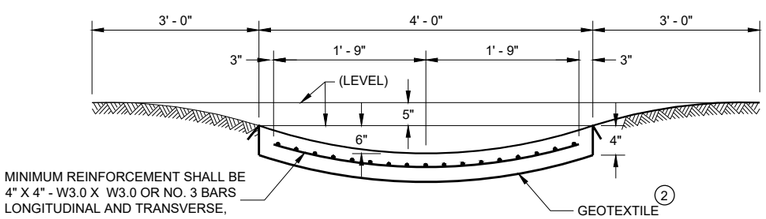


SECTION A - A

SECTION B - B



SECTION C - C



SECTION D - D

CONCRETE SURFACE DRAINS AND ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

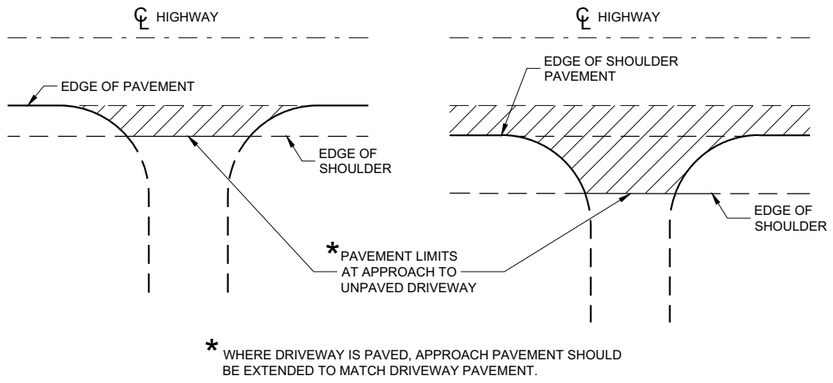
FHWA

6

SDD 08D04 - 07

6

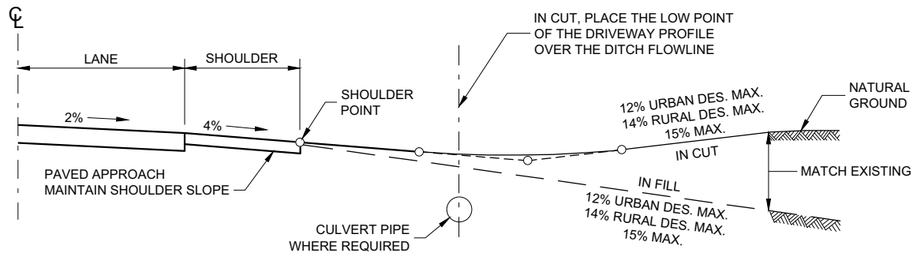
SDD 08D04 - 07



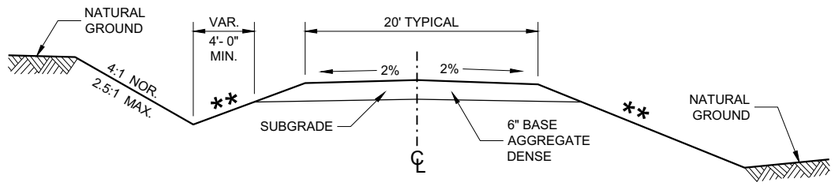
PLAN VIEW
(UNPAVED SHOULDER ON HIGHWAY)

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

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



TYPICAL DRIVEWAY PROFILES

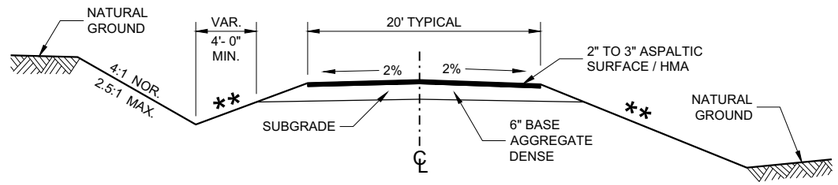


IN CUT **IN FILL**

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

SDD 08D21 - 01

DRIVEWAYS WITHOUT CURB AND GUTTER

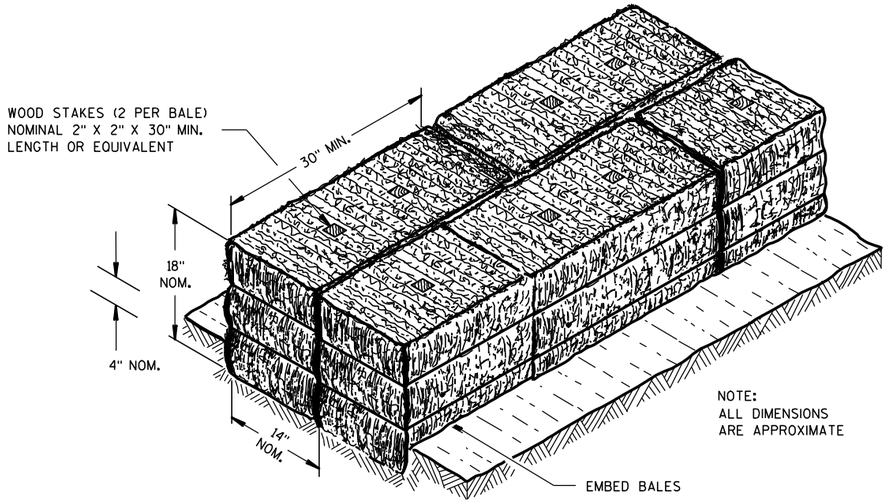
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

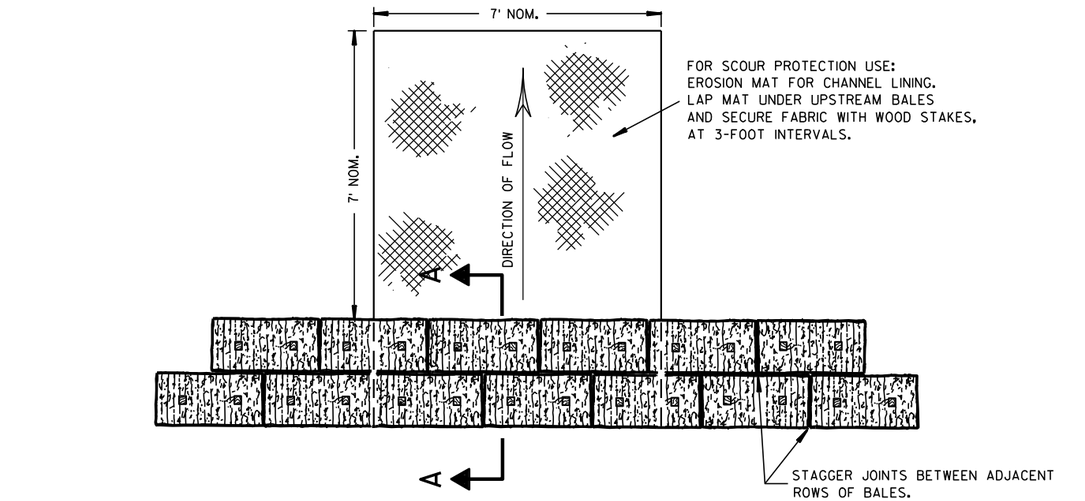
FHWA

6

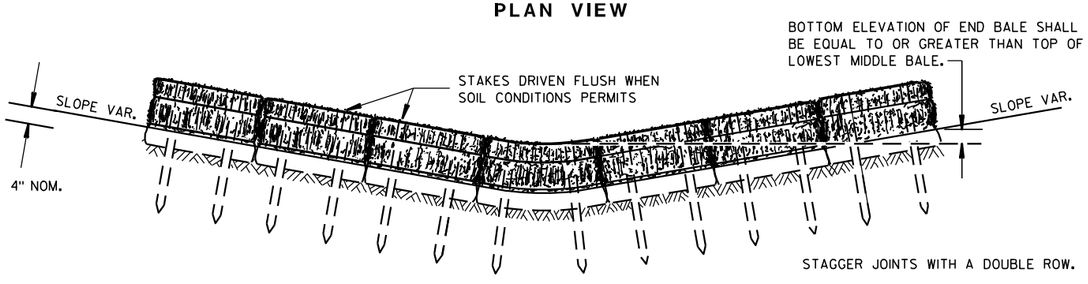
SDD 08D21 - 01



SECTION A-A



PLAN VIEW



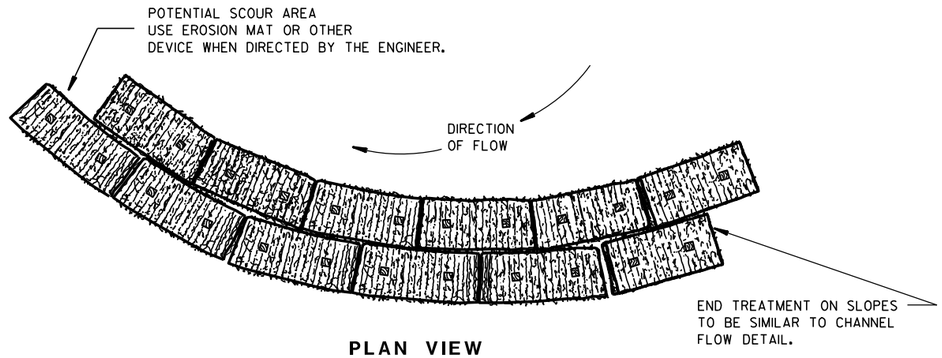
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

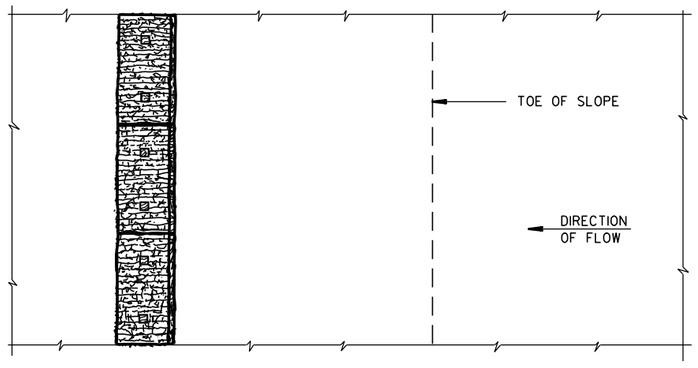
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(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.

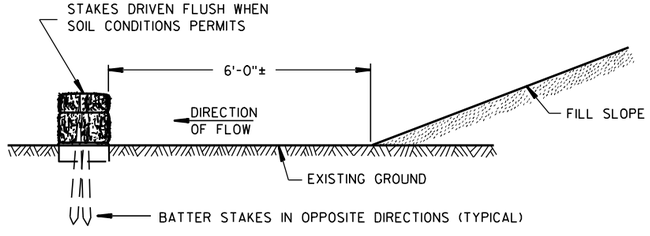


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

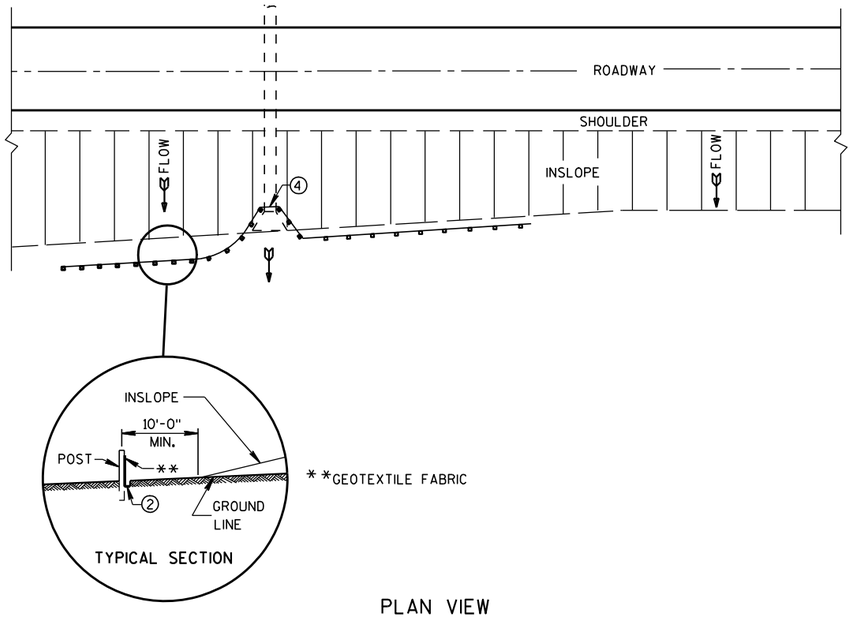
EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

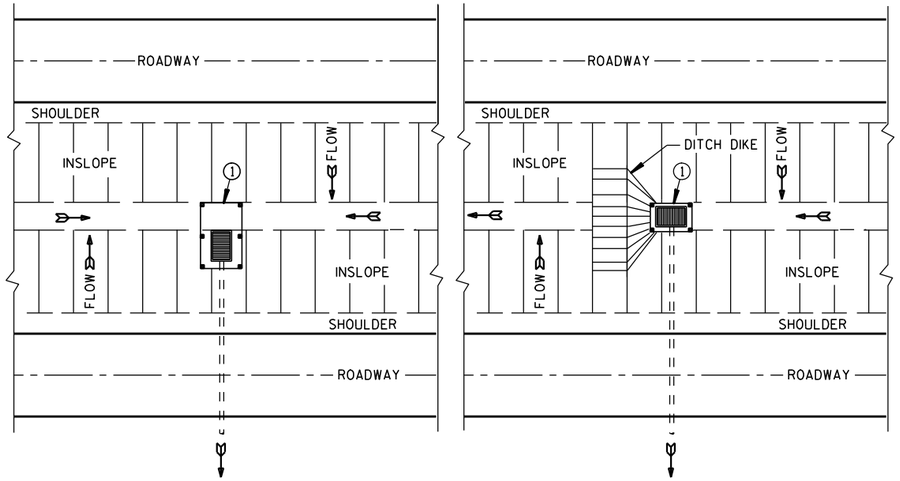
APPROVED
6/04/02 — DATE
/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



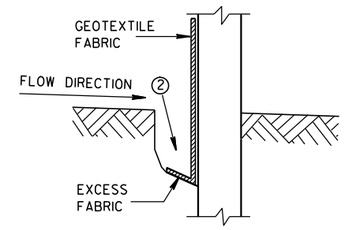
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

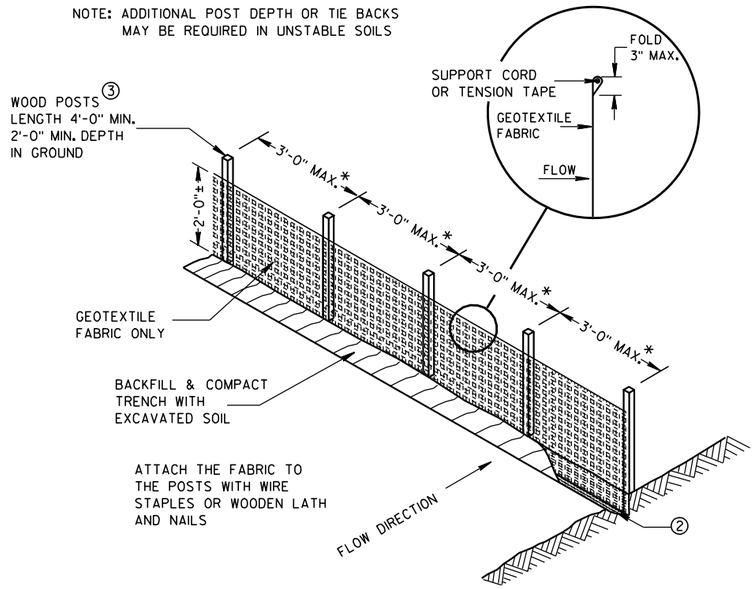
GENERAL NOTES

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

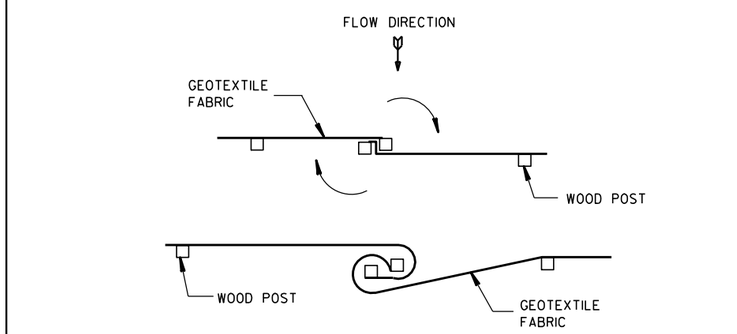
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



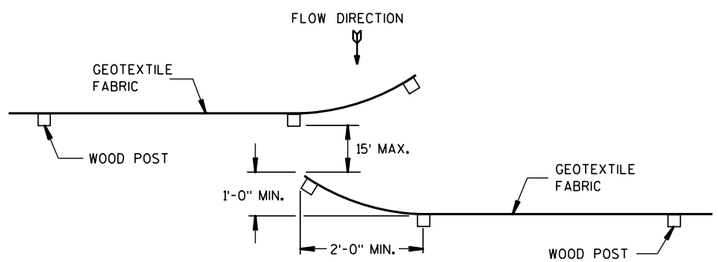
TRENCH DETAIL



SILT FENCE

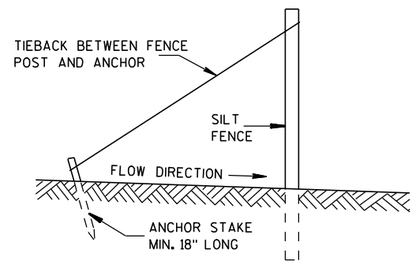


TWIST METHOD



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

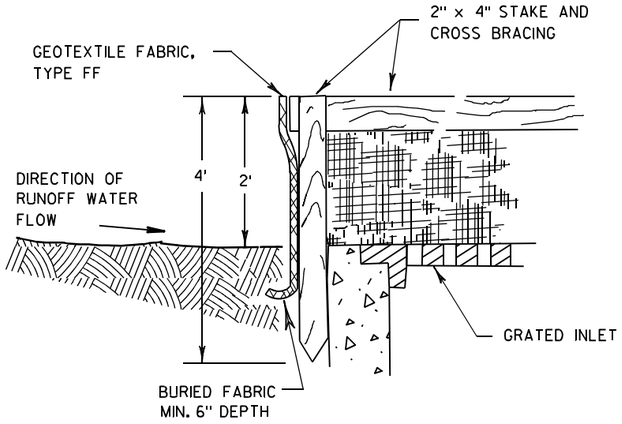
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

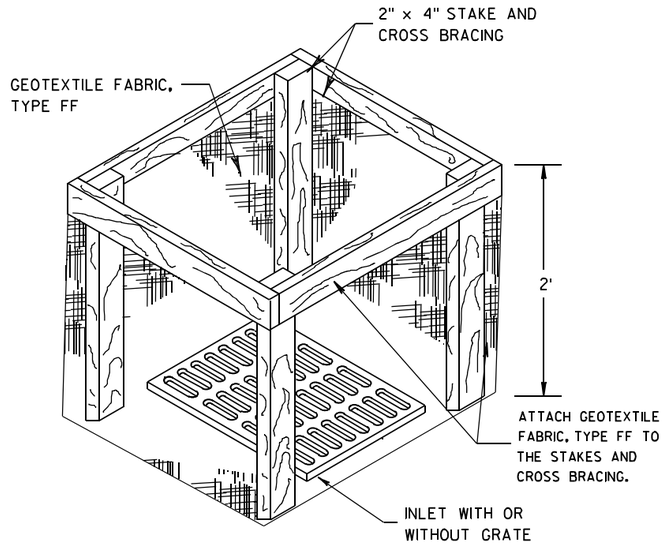
6

S.D.D. 8 E 9-6

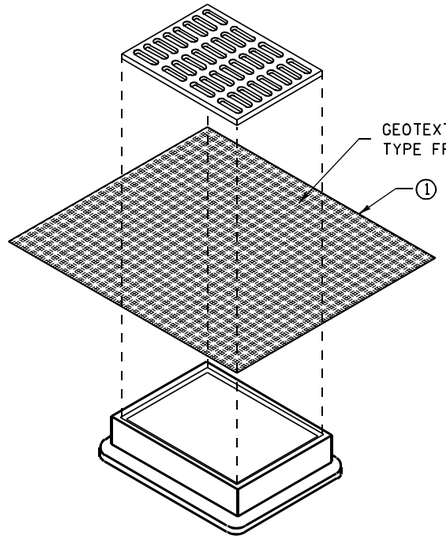
6

S.D.D. 8 E 9-6



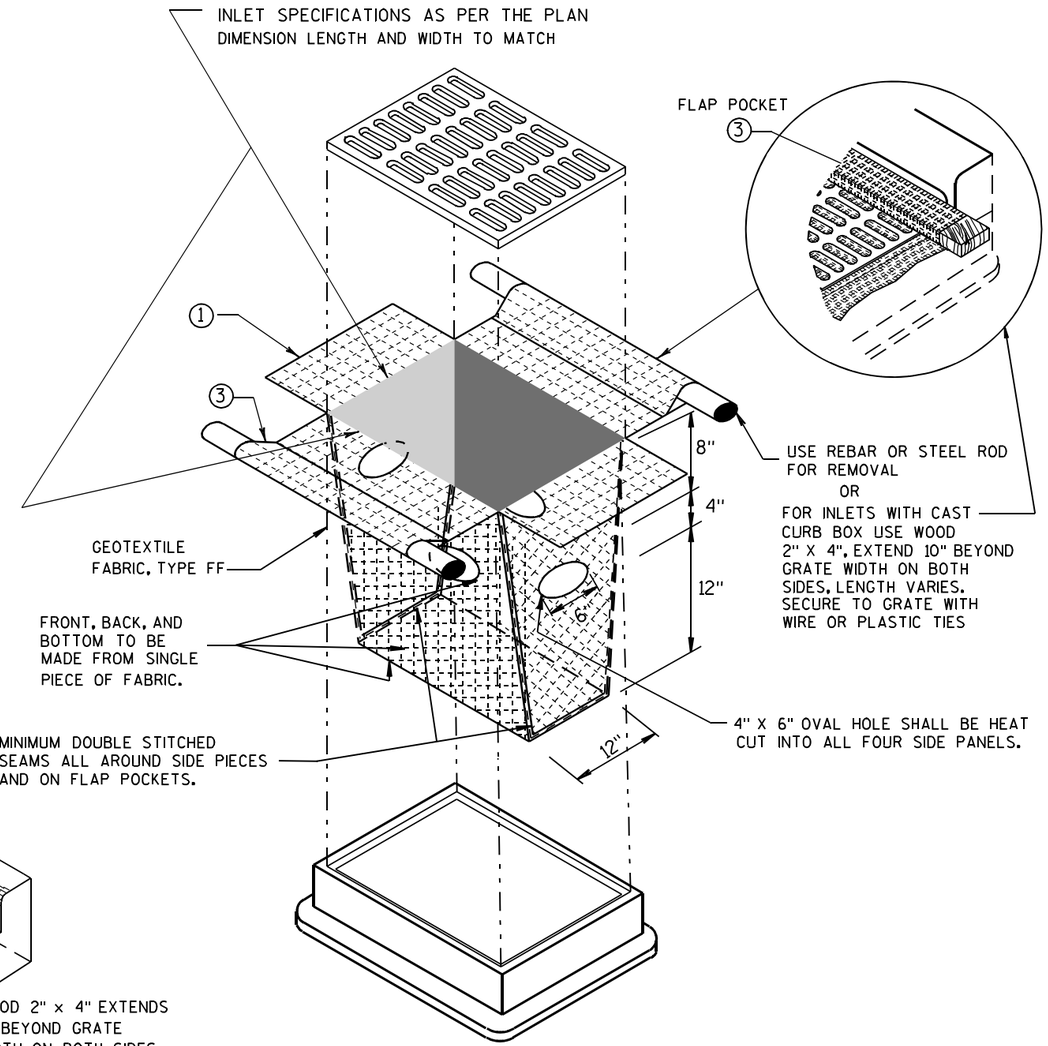


INLET PROTECTION, TYPE A



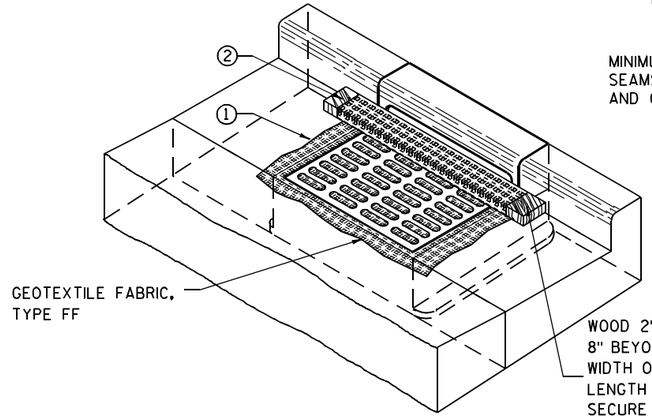
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

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



INLET PROTECTION, TYPE 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

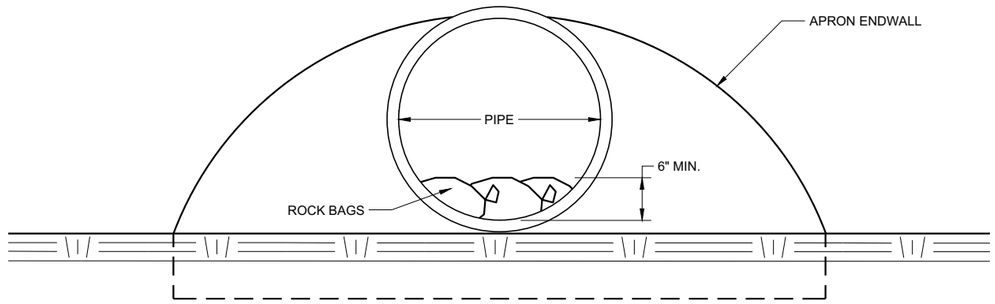
FHWA

6

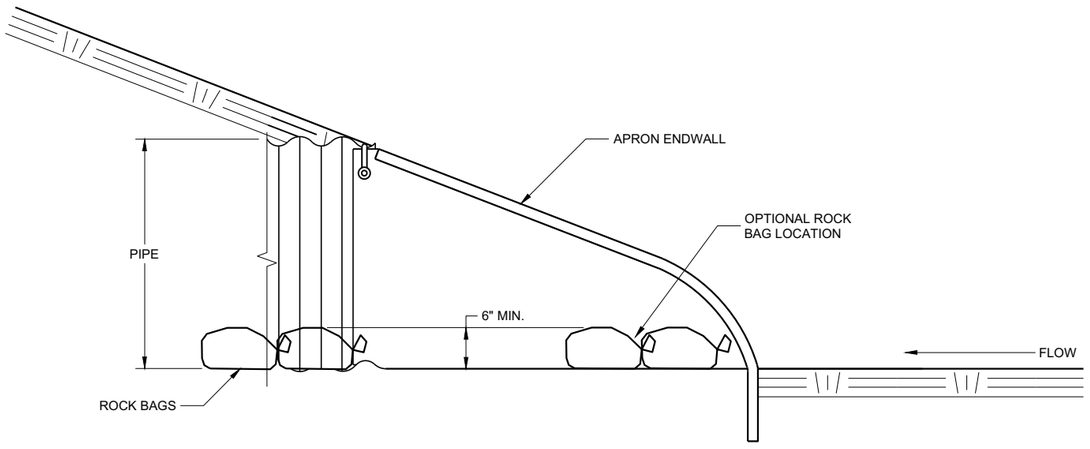
S.D.D. 8 E 10-2

6

S.D.D. 8 E 10-2



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	100

6

SDD 08E15 - 01

6

SDD 08E15 - 01

METAL APRON ENDWALLS

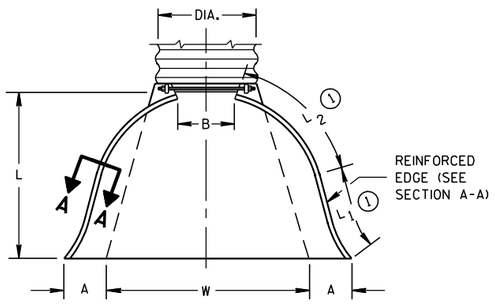
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4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

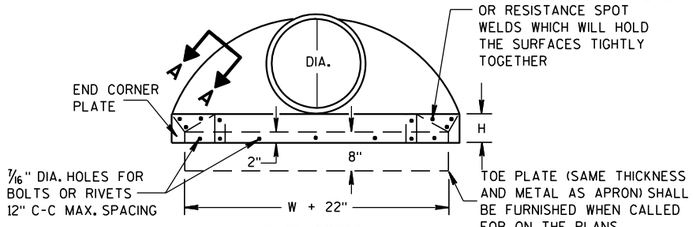
REINFORCED CONCRETE APRON ENDWALLS

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

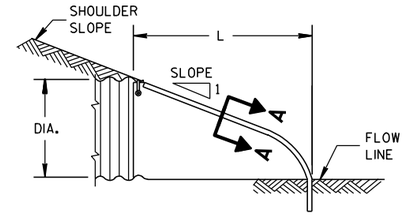
*MINIMUM
**MAXIMUM



PLAN VIEW

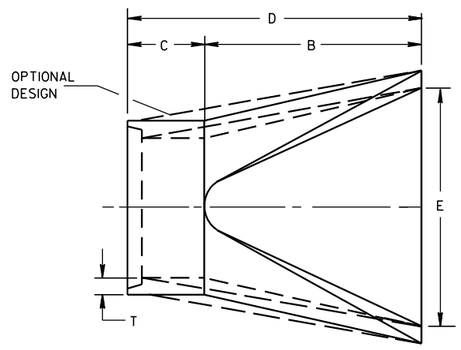


END VIEW

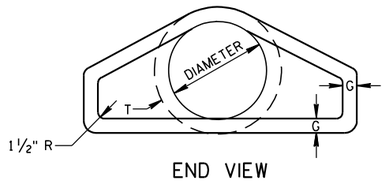


SIDE ELEVATION

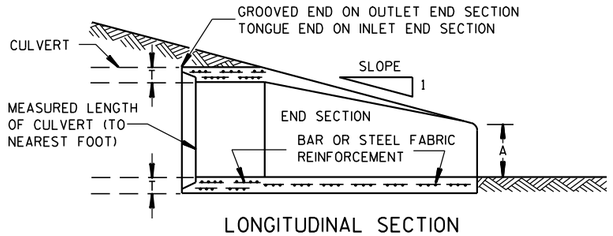
METAL ENDWALLS



PLAN

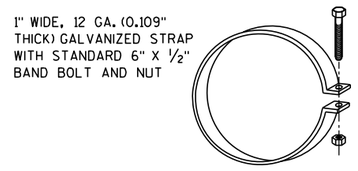


END VIEW



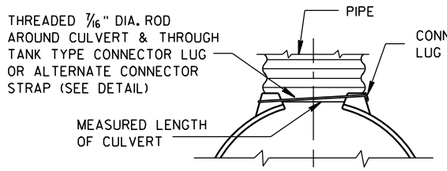
LONGITUDINAL SECTION

CONCRETE ENDWALLS

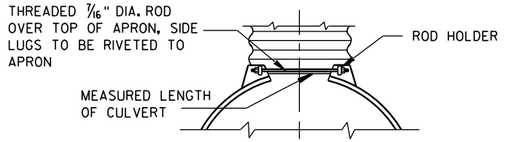


ALTERNATE FOR TYPE 1 CONNECTION

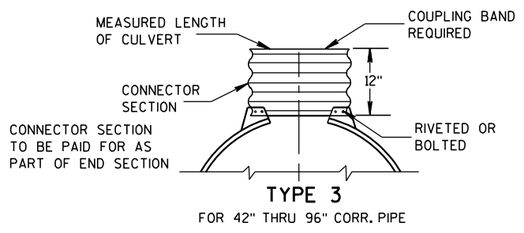
END SECTION CONNECTOR STRAP



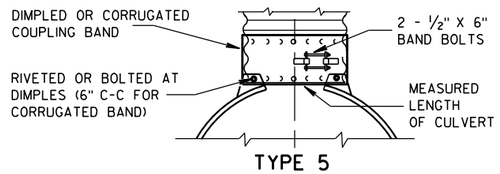
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

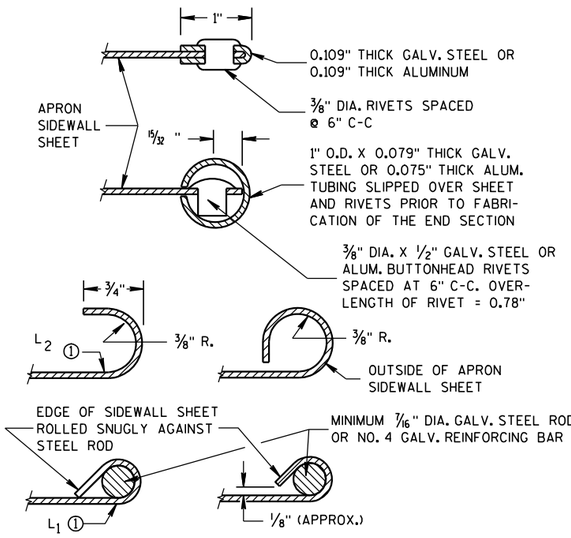
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

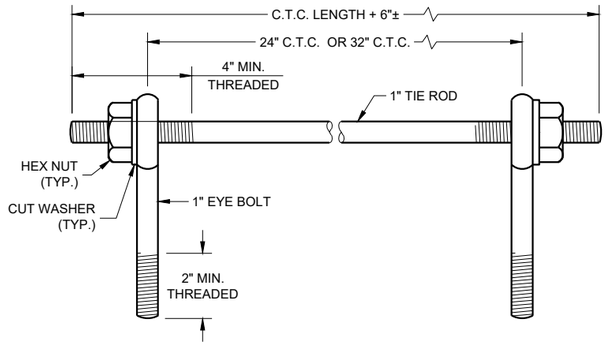
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

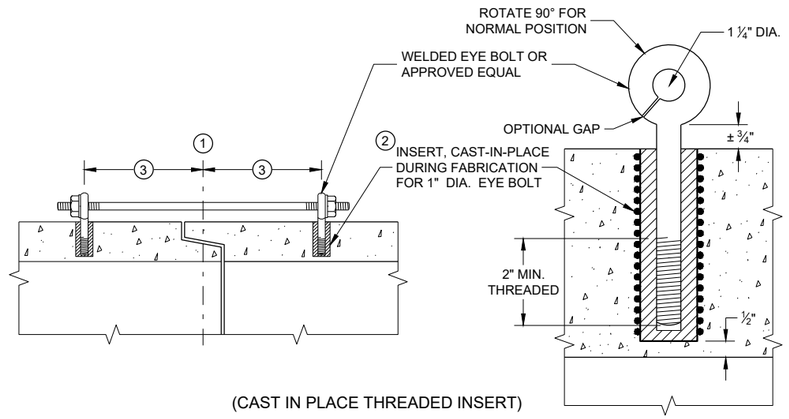
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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.

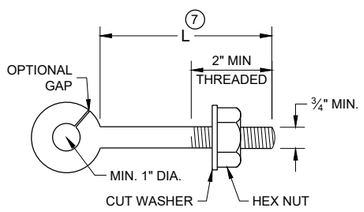
(3) HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.

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

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

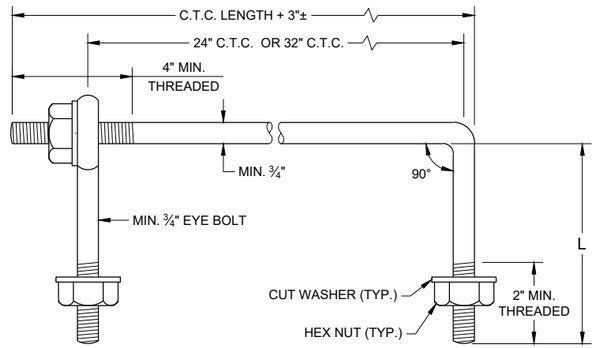
(6) LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.

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

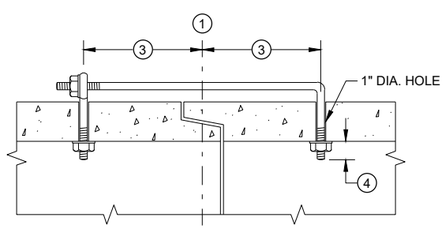


EYE BOLT (7)

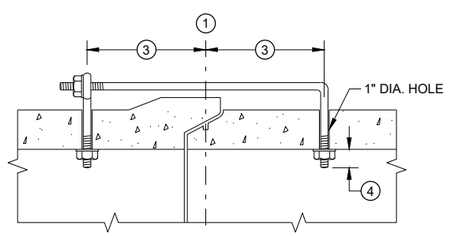
NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" OR 38" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD



(TONGUE AND GROOVE PIPE)



(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

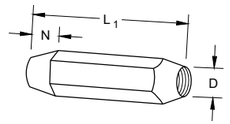
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

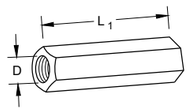
ADJUSTABLE TIE ROD TABLE

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



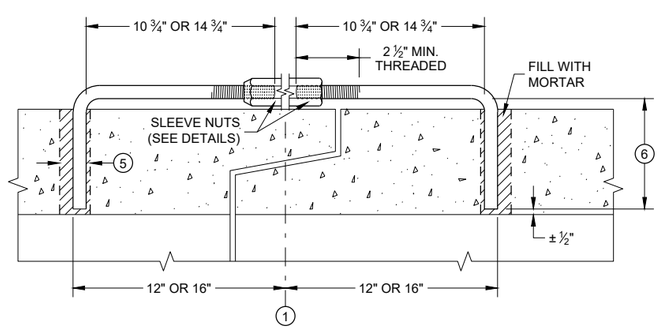
TAPERED



PLAIN

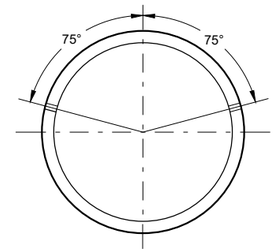
RIGHT AND LEFT THREADS

SLEEVE NUTS



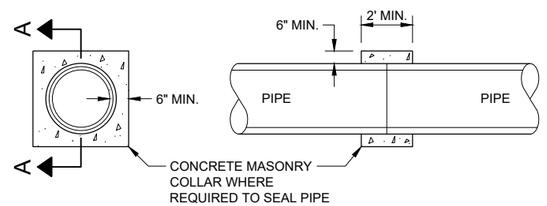
LONGITUDINAL SECTION

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

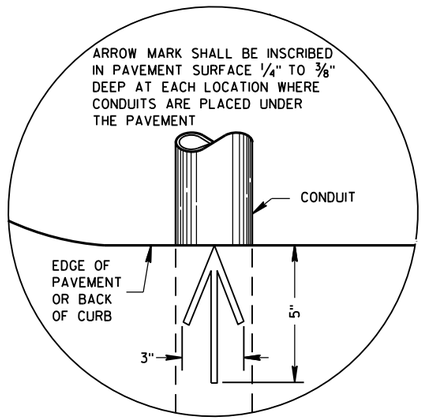
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

FHWA

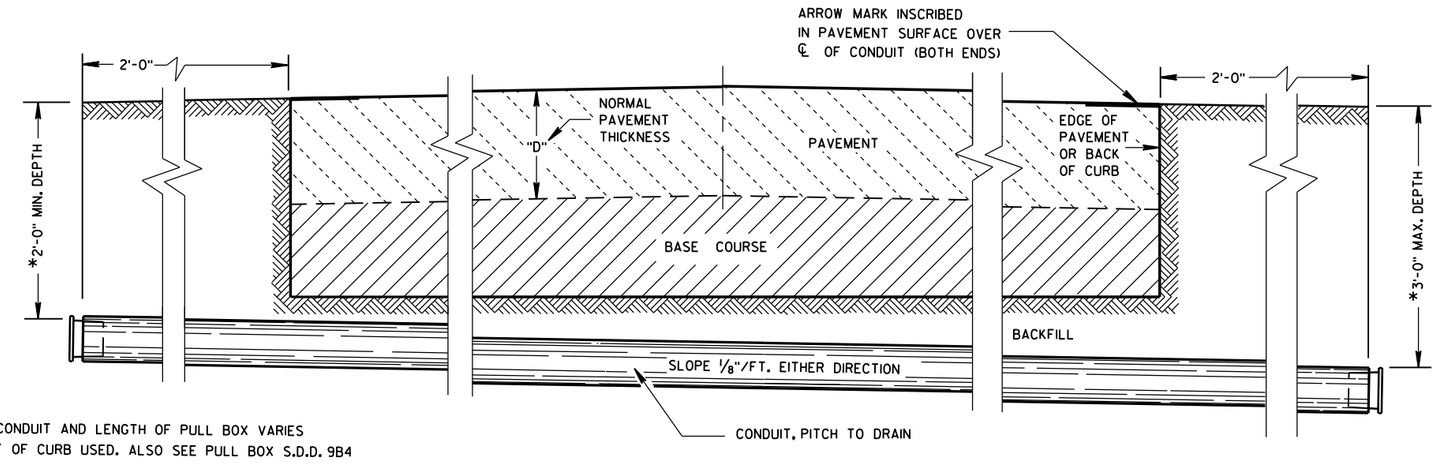
SDD 08F04 - 08

SDD 08F04 - 08



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

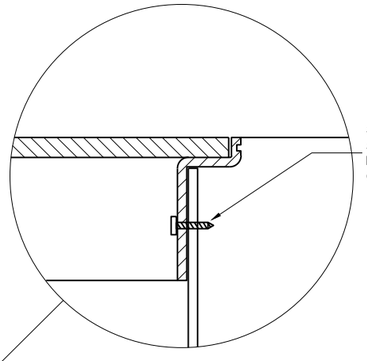
S.D.D. 9 B 2-10

TABLE OF NOMINAL DIMENSIONS
AND WEIGHTS

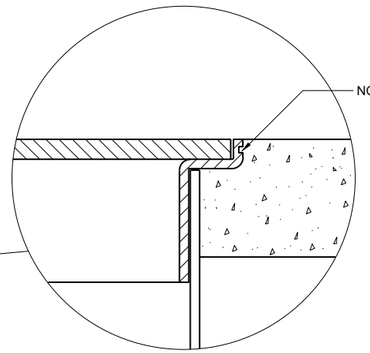
DIMENSION IN INCHES		NON- CONDUCTIVE PULL BOX	
BOX DIAMETER ** (INSIDE)	A	24	24
BOX OVERALL OUTSIDE DIAMETER	B	27	27
BOX LENGTH	C	36	42
FRAME OPENING	D	22 ½	22 ½
WEIGHT IN POUNDS *			
COVER		50	50
BOX ONLY		75	85

*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.



INSTALLED IN SOD OR CRUSHED AGGREGATE



INSTALLED IN SIDEWALK

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".

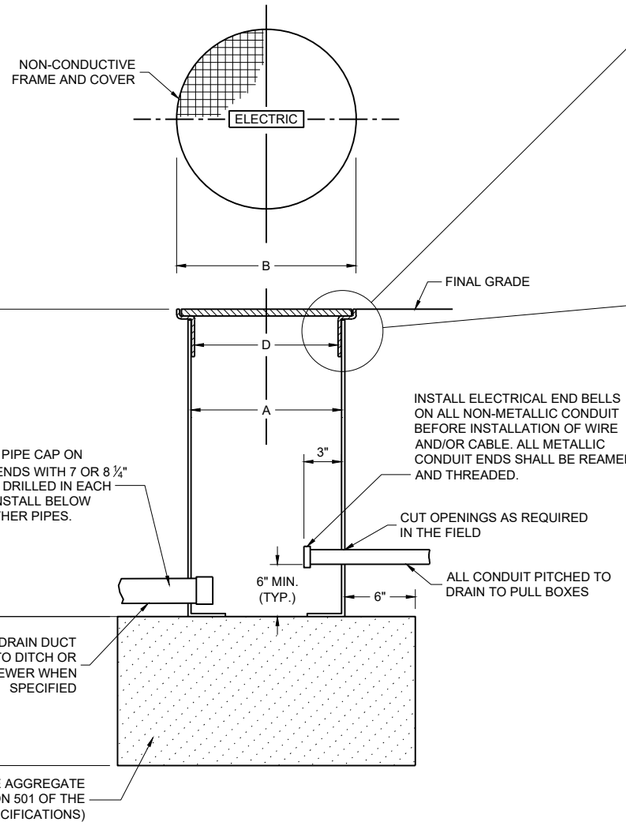
THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

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

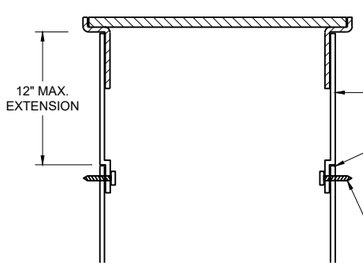
ENTIRE BOX MUST BE CONSTRUCTED OF NON-CONDUCTIVE MATERIALS WITH THE EXCEPTION OF STAINLESS STEEL FASTENERS AND MAGNETIC LOCATABLE DEVICE.

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.

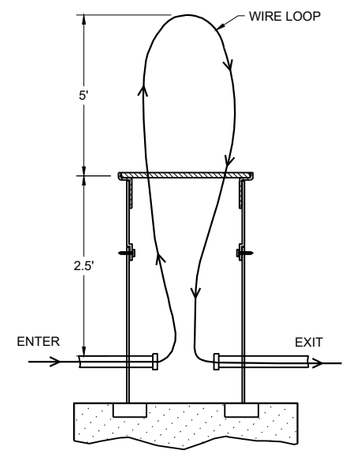
LABEL ON COVER SHALL READ "ELECTRIC" FOR SIGNAL AND LIGHTING SYSTEMS, "WISDOT ITS" FOR COMMUNICATIONS AND ITS EQUIPMENT SYSTEMS.



NON-CONDUCTIVE PULL BOX



BOX EXTENSION



MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX

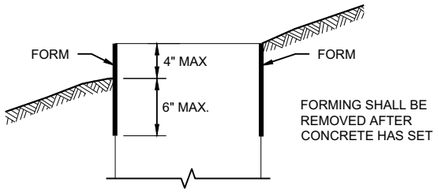
PULL BOXES NON-CONDUCTIVE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2024 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL ENGINEER

FHWA

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.

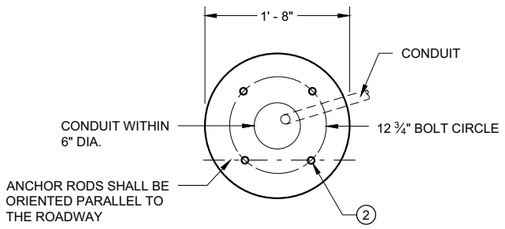
WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

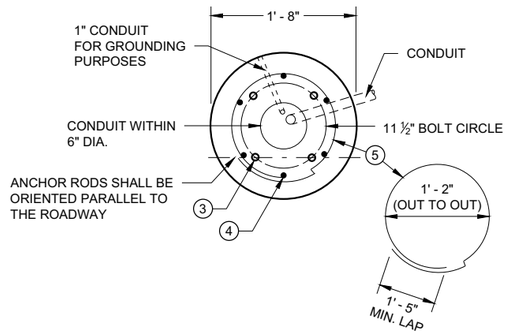
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

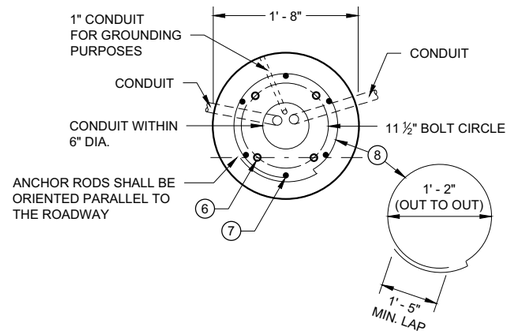
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

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

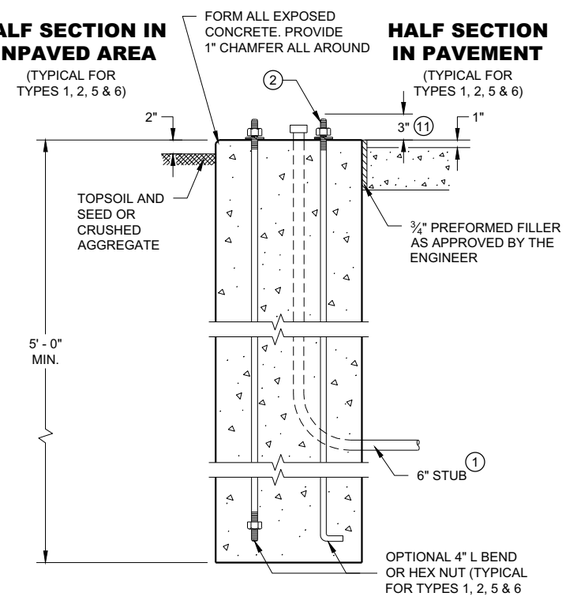
10 ⅝" DIA. X 8' -0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED

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.

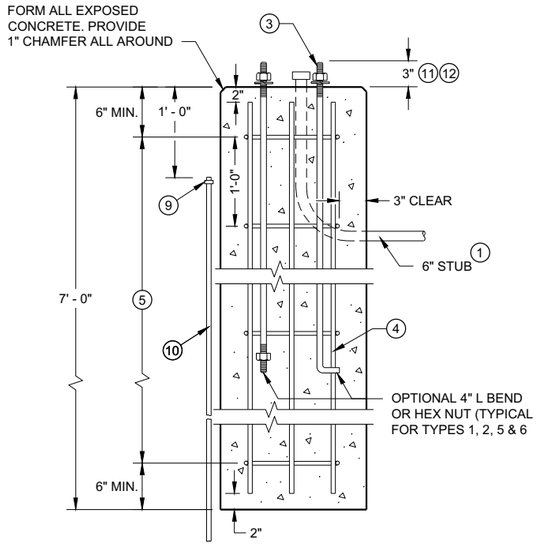
12 FOR NON - BREAKAWAY INSTALLATIONS, 4 ½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

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

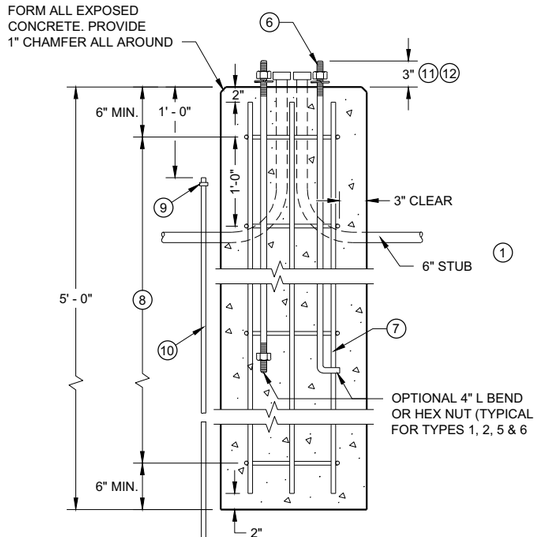
HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2, 5 & 6)



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

FHWA

105

SDD 09C02 - 09

SDD 09C02 - 09

6

6

GENERAL NOTES

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

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATIONS.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED, U.L. LISTED, COPPER WITH BRASS OR STAINLESS STEEL SET SCREW, DIRECT BURY RATED, MECHANICAL CONNECTOR (LUG), SIZED TO ACCEPT AWG. #10 TO #4 COPPER STRANDED WIRE SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

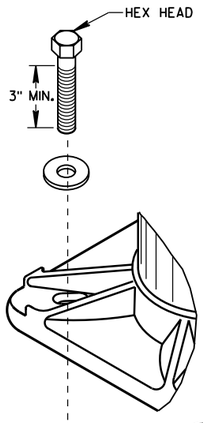
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

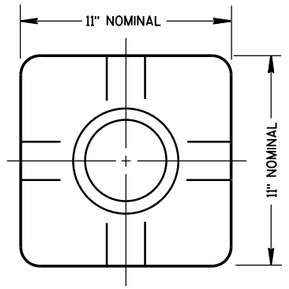
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

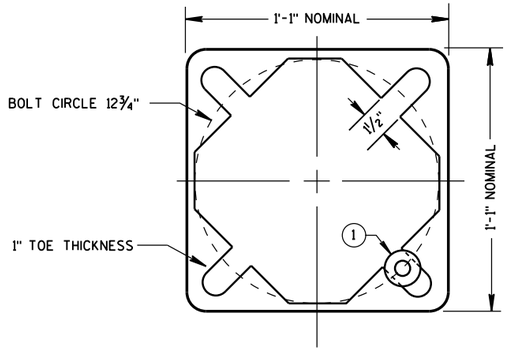
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

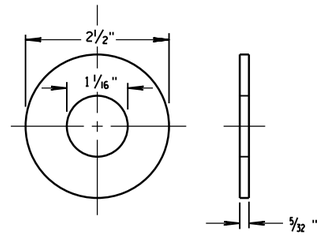




TOP VIEW
(PEDESTAL BASE)

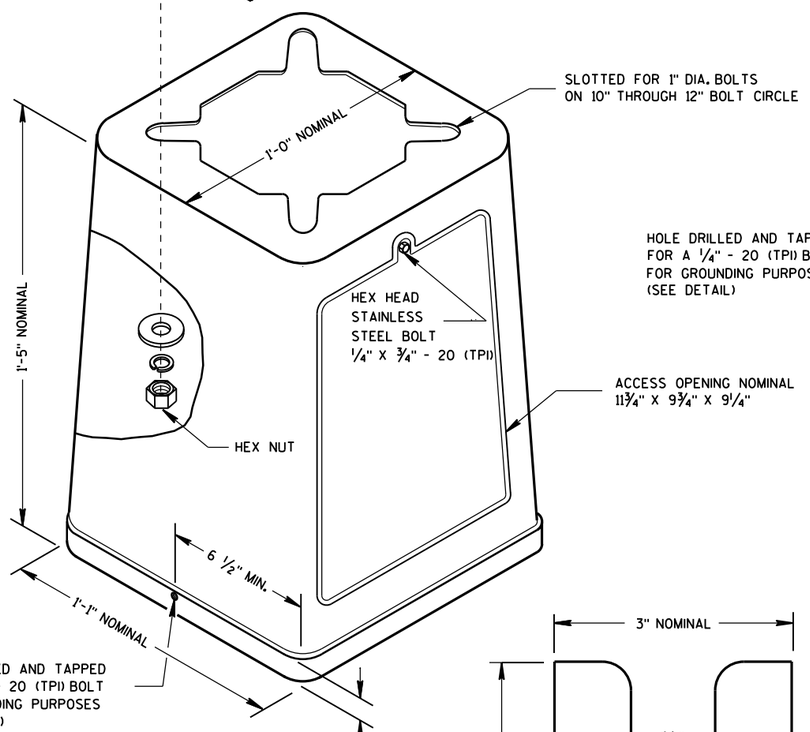


BOTTOM VIEW
(PEDESTAL BASE)

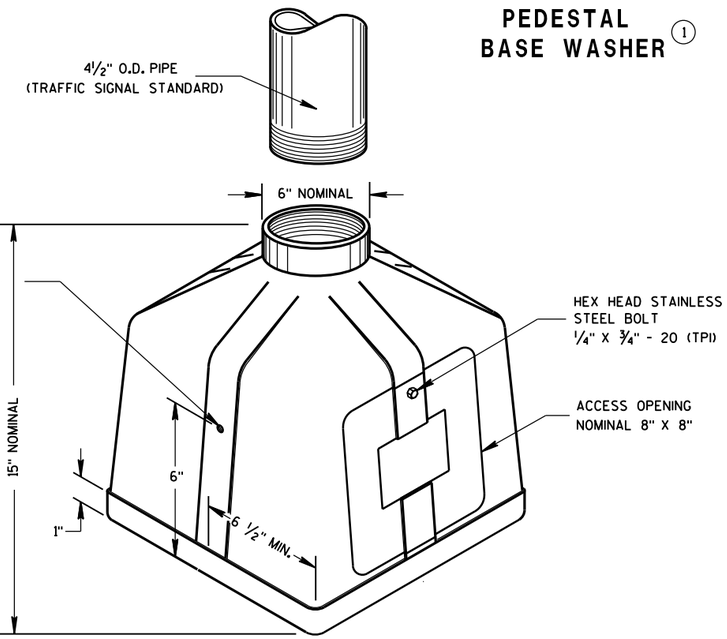


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

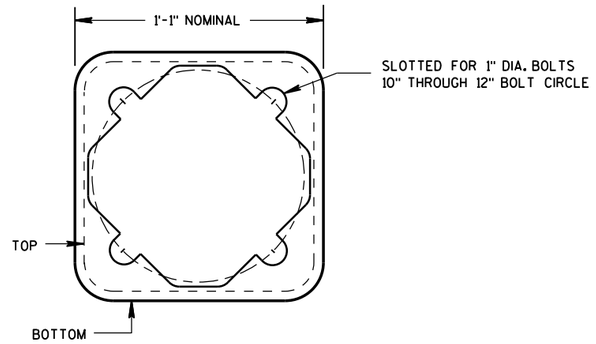
PEDESTAL BASE WASHER (1)



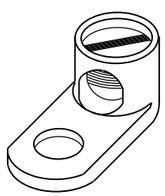
ISOMETRIC VIEW



ISOMETRIC VIEW
PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

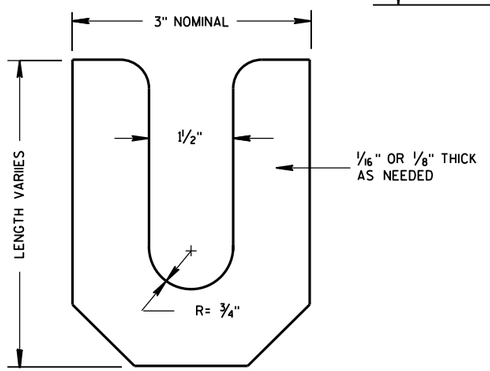


TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



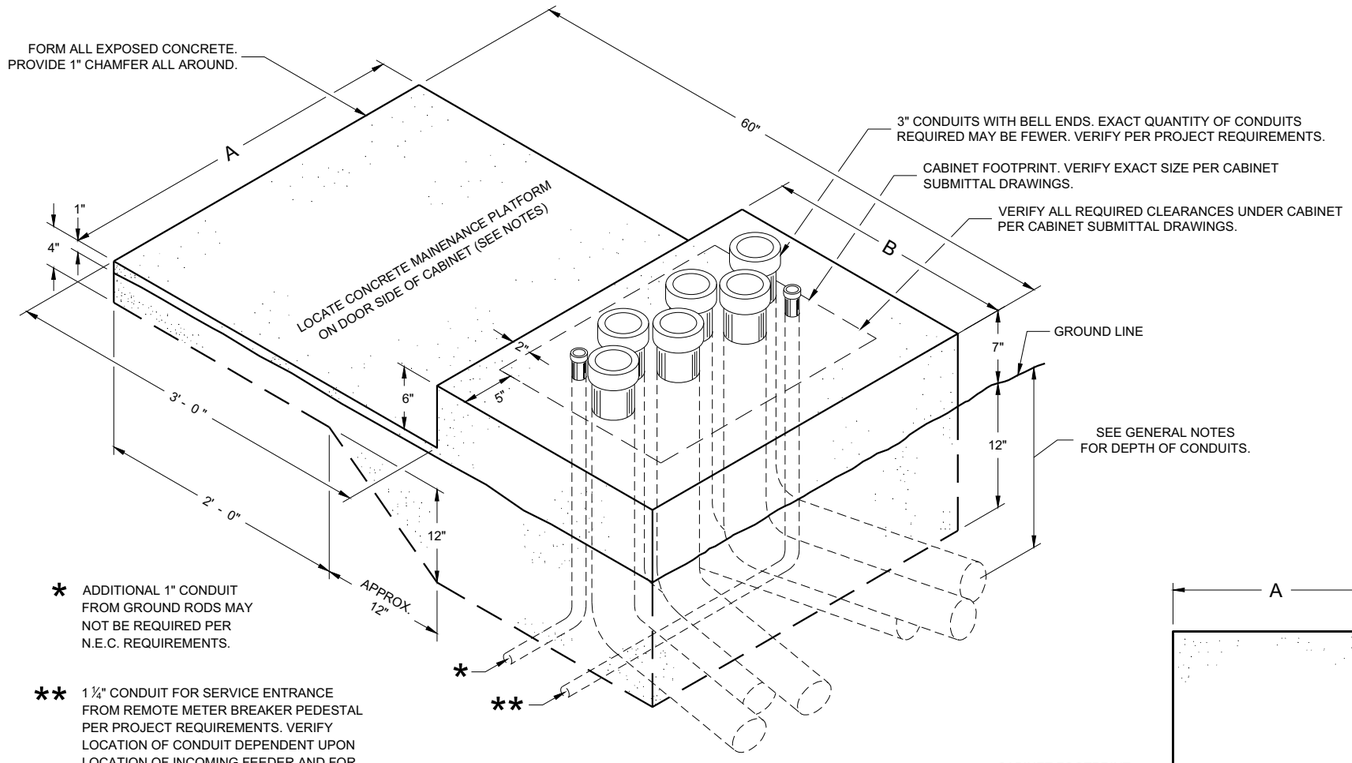
LEVELING SHIM

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6
S.D.D. 9 C 3-4



* ADDITIONAL 1" CONDUIT FROM GROUND RODS MAY NOT BE REQUIRED PER N.E.C. REQUIREMENTS.

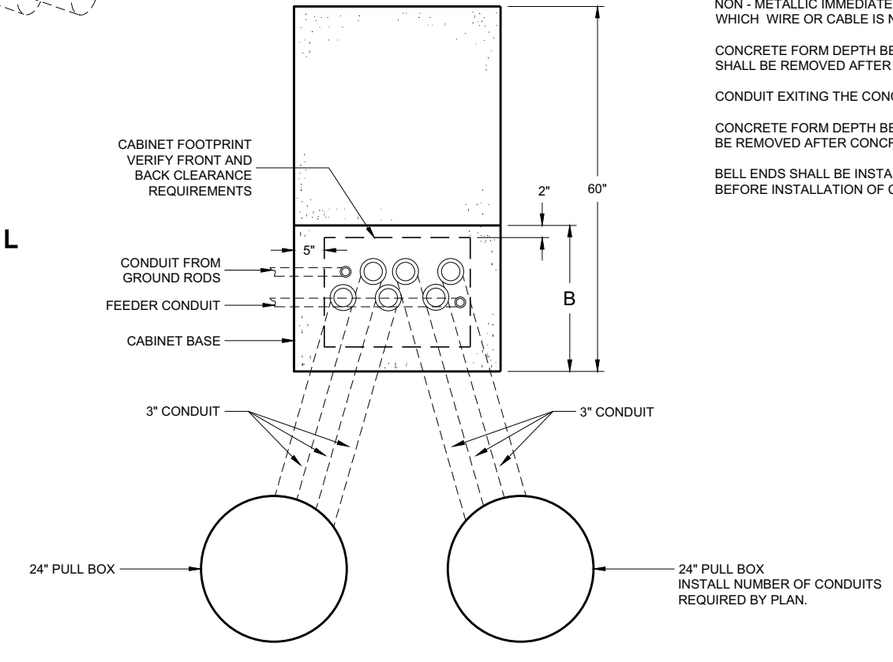
** 1 ¼" CONDUIT FOR SERVICE ENTRANCE FROM REMOTE METER BREAKER PEDESTAL PER PROJECT REQUIREMENTS. VERIFY LOCATION OF CONDUIT DEPENDENT UPON LOCATION OF INCOMING FEEDER AND FOR EASE OF CONNECTION TO LOAD CENTER.

ISOMETRIC VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

(C.Y. CONCRETE = APPROX. 0.4)

CONCRETE BASE TYPE	CABINET WIDTH	DIMENSIONS		MAXIMUM 3" CONDUITS
		A	B	
L24	24"	34"	24"	4
L30	30"	40"	24"	6



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

GENERAL NOTES

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

INSTALL FOUR STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS TO ANCHOR THE CABINET BASES. THE ANCHORS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NON - METALLIC 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.

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.

LOCATIONS SHALL BE AS SHOWN ON THE PLANS UNLESS DETERMINED BY THE ENGINEER IN THE FIELD.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND LEVEL.

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

MINIMUM BENDING RADIUS OF CONDUIT EQUALS 6 TIMES THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NON - METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

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 BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6 INCHES MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

CONDUIT EXITING THE CONCRETE BASE SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6 INCH MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

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

CONCRETE CONTROL CABINET BASE, TYPE L

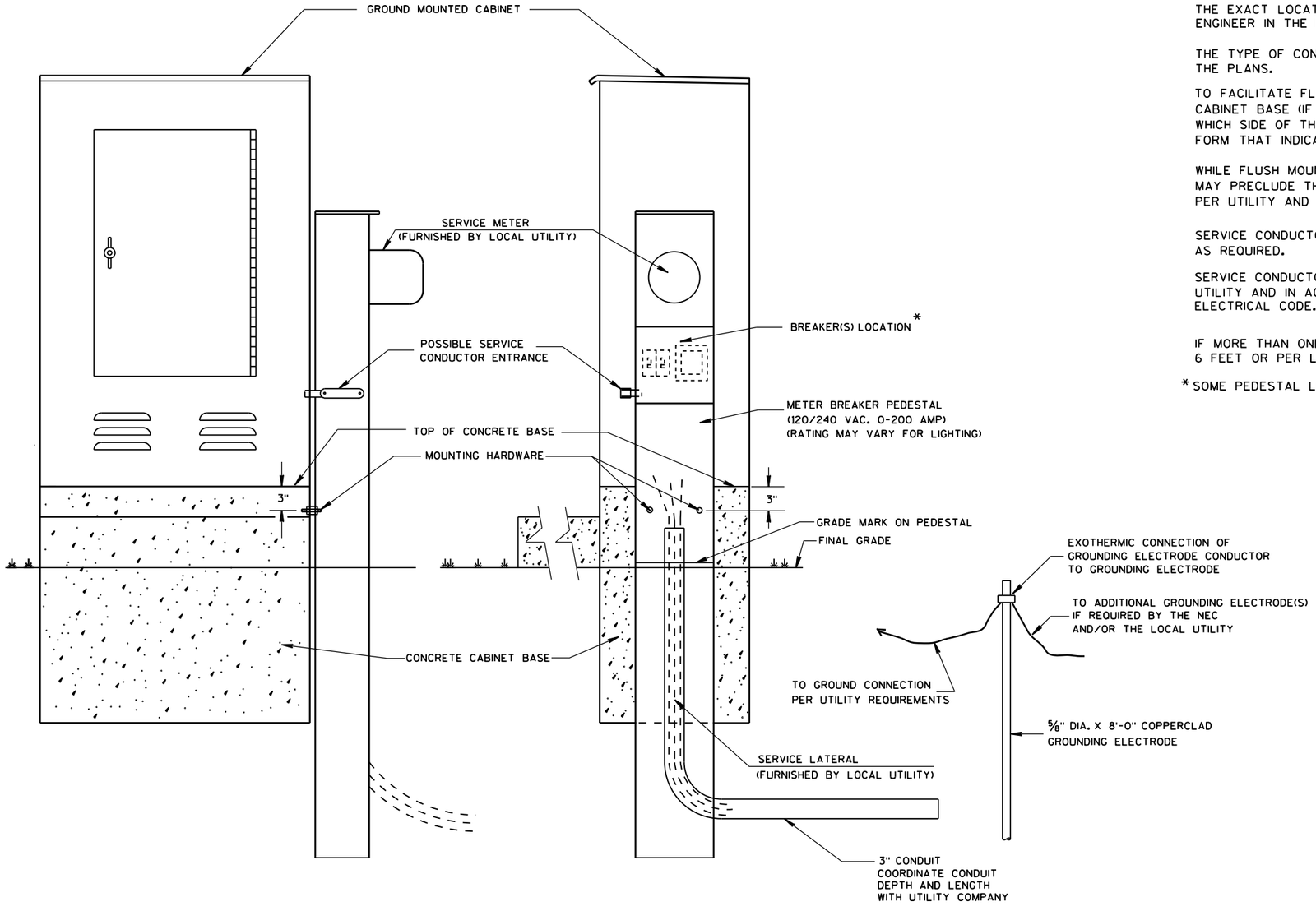
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

FHWA

6
SDD 09C14 - 03



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.

6

S.D.D. 9 D 1-5

CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

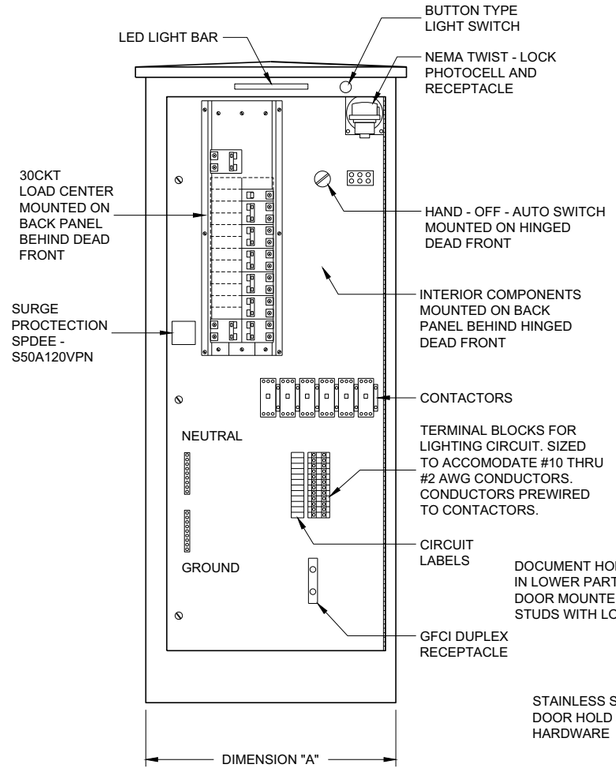
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

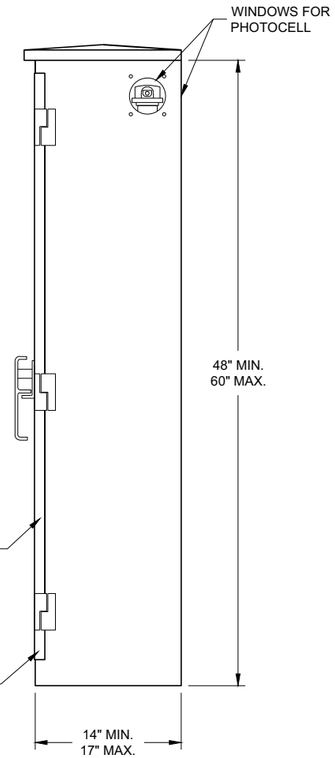
6

S.D.D. 9 D 1-5

FRONT INTERIOR ELEVATION



SIDE VIEW



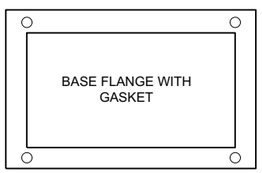
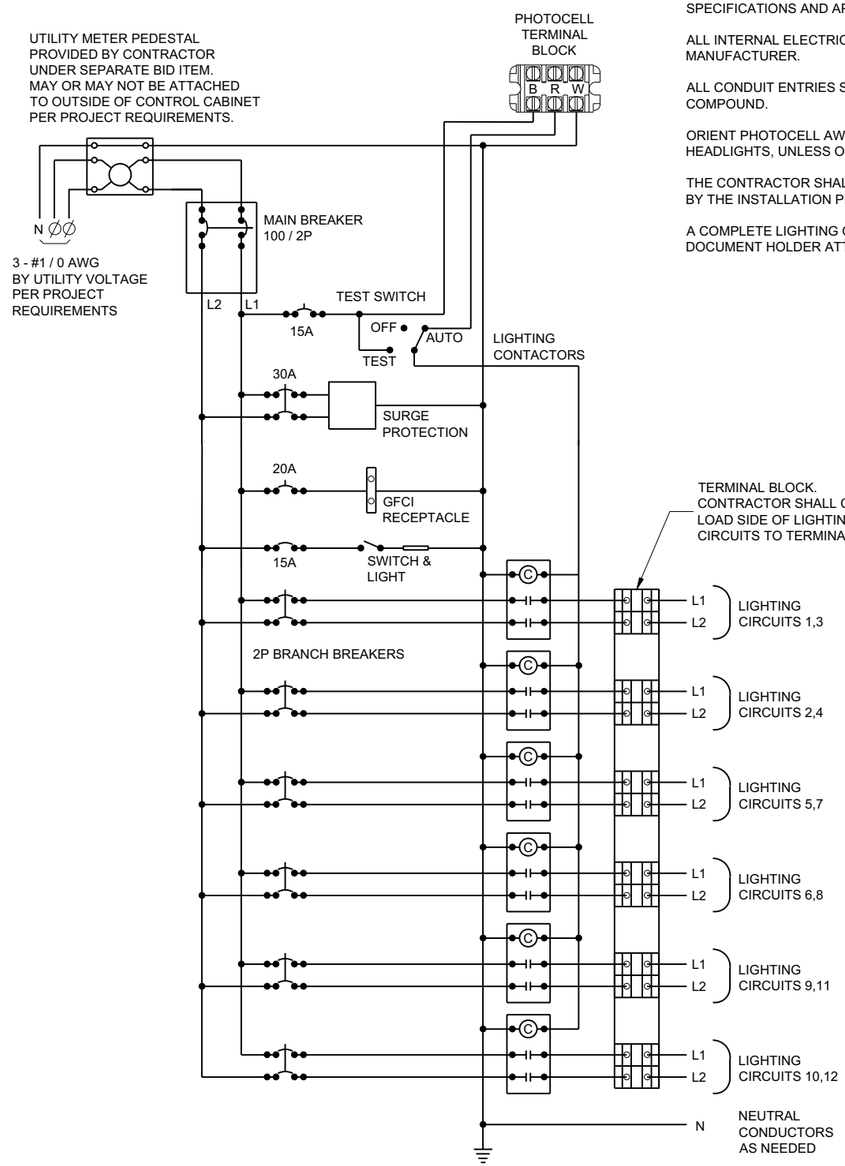


TABLE OF DIMENSIONS (INCHES)		
CONCRETE BASE TYPE	CABINET WIDTH	DIMENSION "A"
L24	24"	24"
L30	30"	30"

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

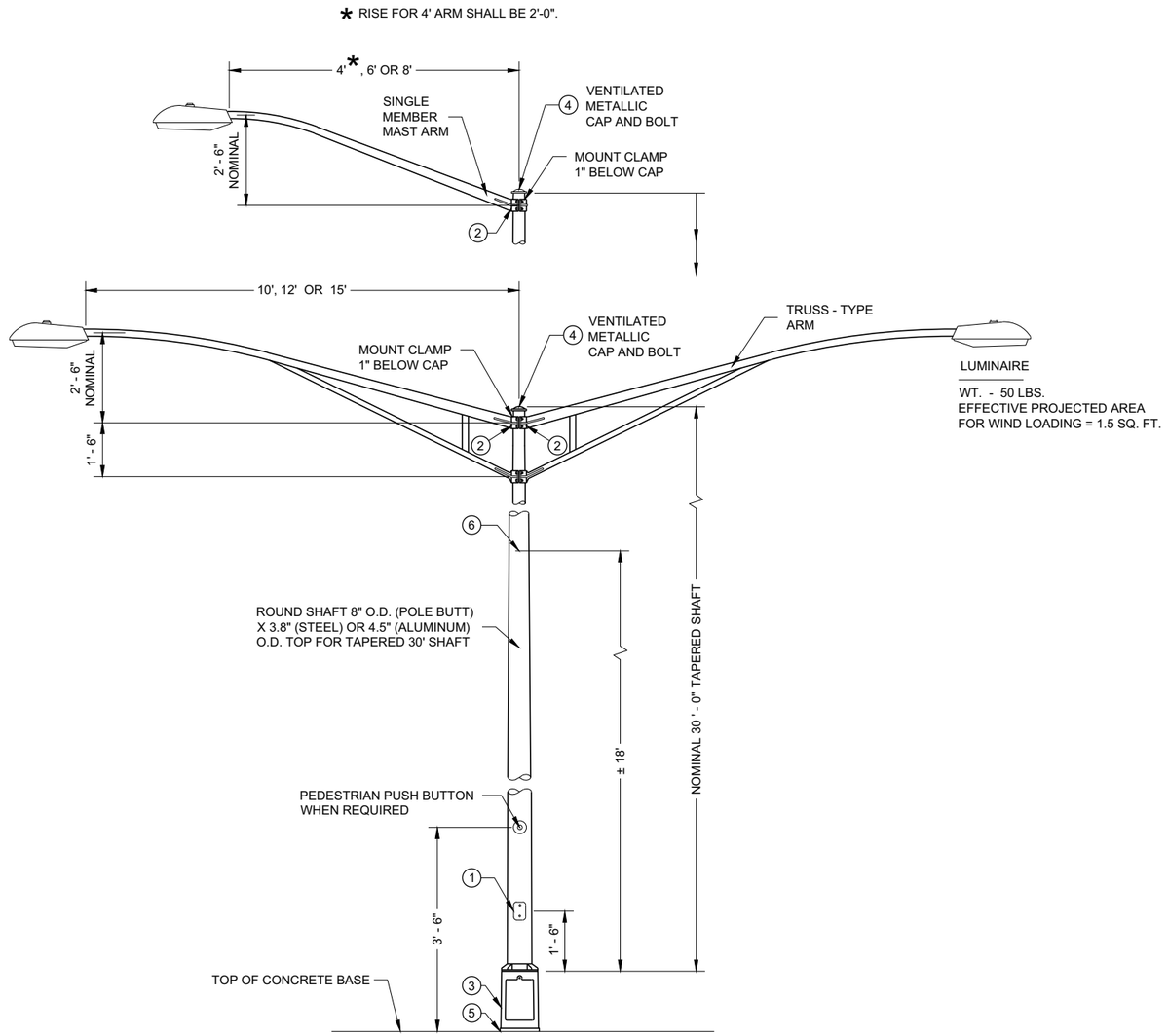
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

FHWA

6
SDD 09D04 - 03



TYPE 5 POLE MOUNTING CONFIGURATION

(MAXIMUM LOAD)

LIGHTING ONLY

GENERAL NOTES

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

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

ALL TYPE 5 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL OR ALUMINUM, AS CALLED FOR IN THE CONTRACT.

TYPE 5 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063 - T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

TYPE 5 ALUMINUM POLES SHALL HAVE A MINIMUM WALL THICKNESS OF 0.1888".

TYPE 5 STEEL POLES SHALL HAVE A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (0.1196").

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2 ⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" X 6" REINFORCED HANDHOLE AND COVER ASSEMBLY WITH TWO (2) ¼" X ¾" - 20 TPI , STAINLESS STEEL, HEX HEAD BOLTS.

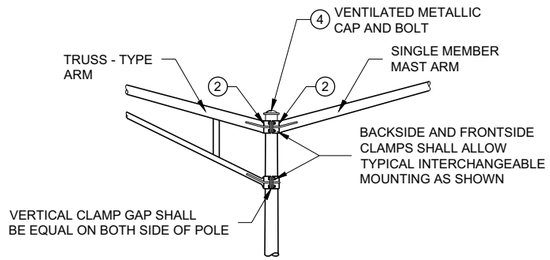
(2) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 ⅜" HOLE IN POLE SHAFT FOR WIRING.

(3) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

(4) FURNISH AND INSTALL VENTILATED, CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(5) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.

(6) INTERNAL DUMBBELL - TYPE VIBRATION DAMPER.



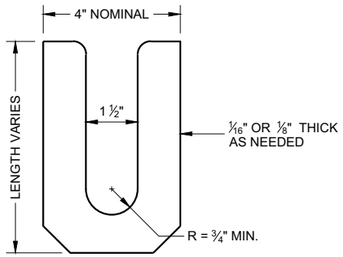
INTERCHANGEABLE MOUNTING DETAIL

POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)

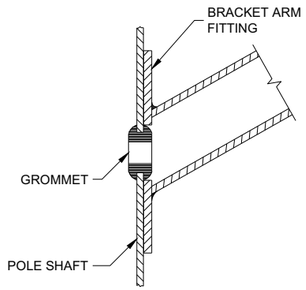
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA

6

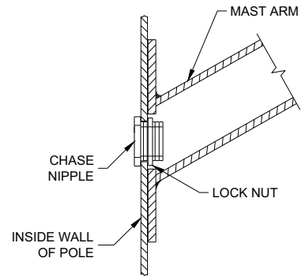
SDD 09E01 - 15d



LEVELING SHIM (1)
SHALL BE ALUMINUM



TYPICAL APPLICATION OF GROMMET IN POLE SHAFT



TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT

GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (1/2 INCH NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

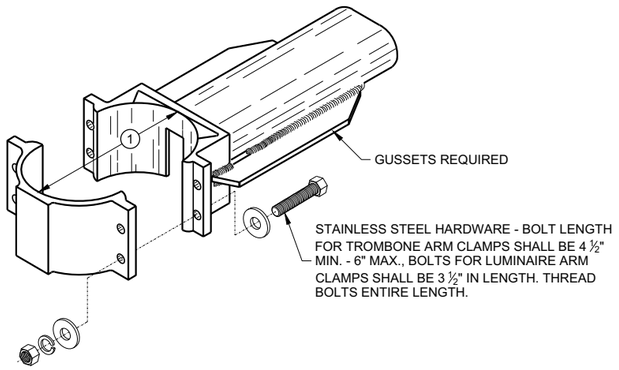
(1) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP. 6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(2) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

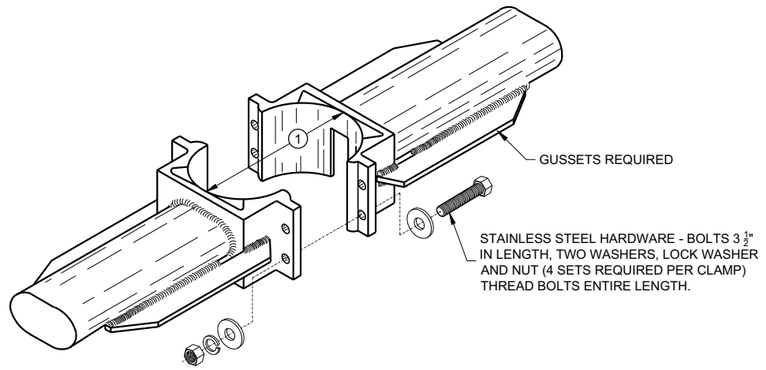
(3) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(4) LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC BASE PLATE.

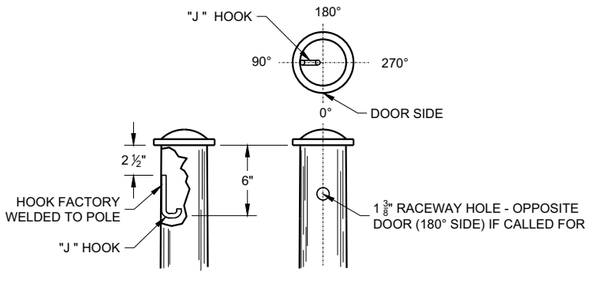
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



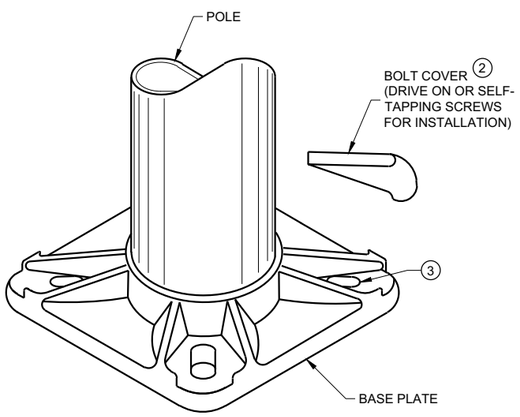
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



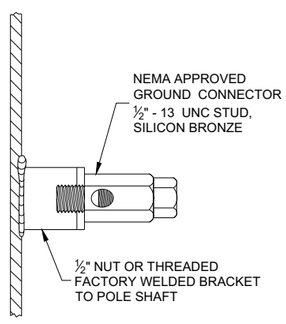
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

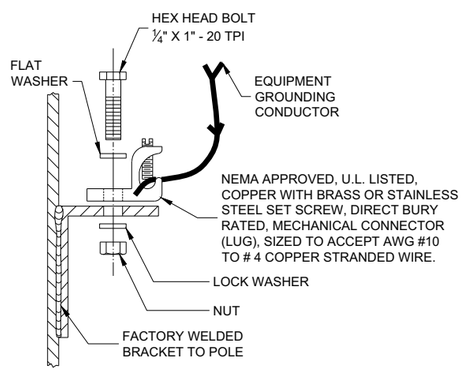


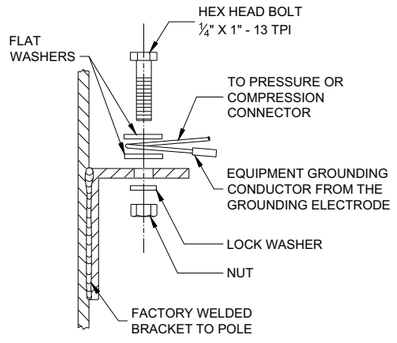
TYPICAL "J" HOOK LOCATION



BASE PLATE







TYPICAL GROUNDING CONNECTIONS
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

HARDWARE DETAILS FOR POLE MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

FHWA

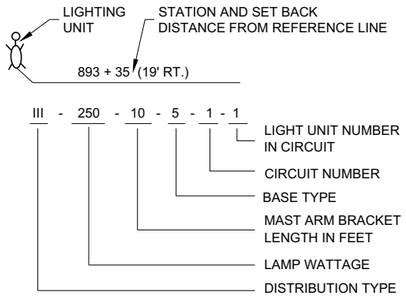
6
SDD 09E01 - 15g

GENERAL NOTES

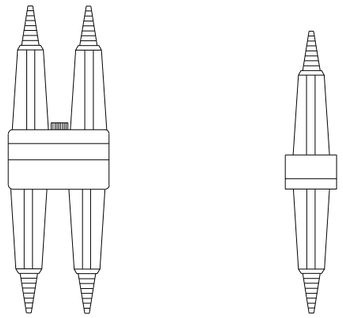
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EQUIPMENT GROUND CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND 3 WRAPS (MINIMUM) OF APPROVED VINYL TAPE TO COVER SHARP WIRE ENDS AFTER THE CONNECTION IS COMPLETED.

WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.

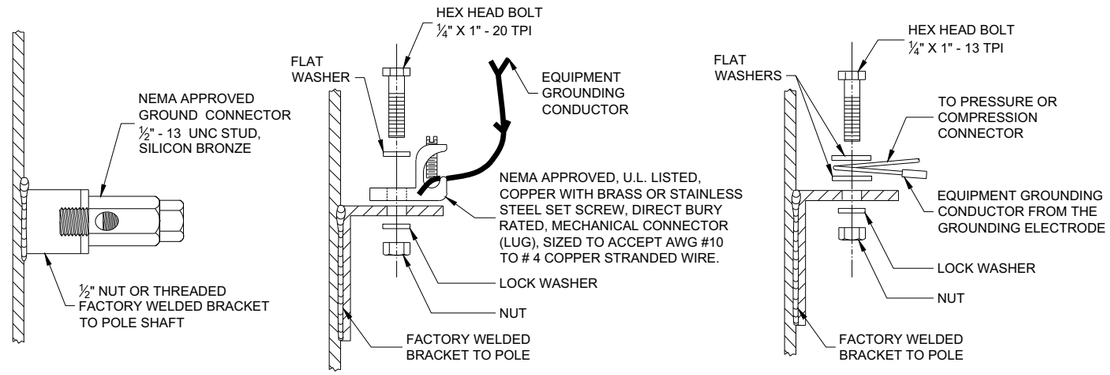


LIGHTING UNIT CODE
(TYPICAL)

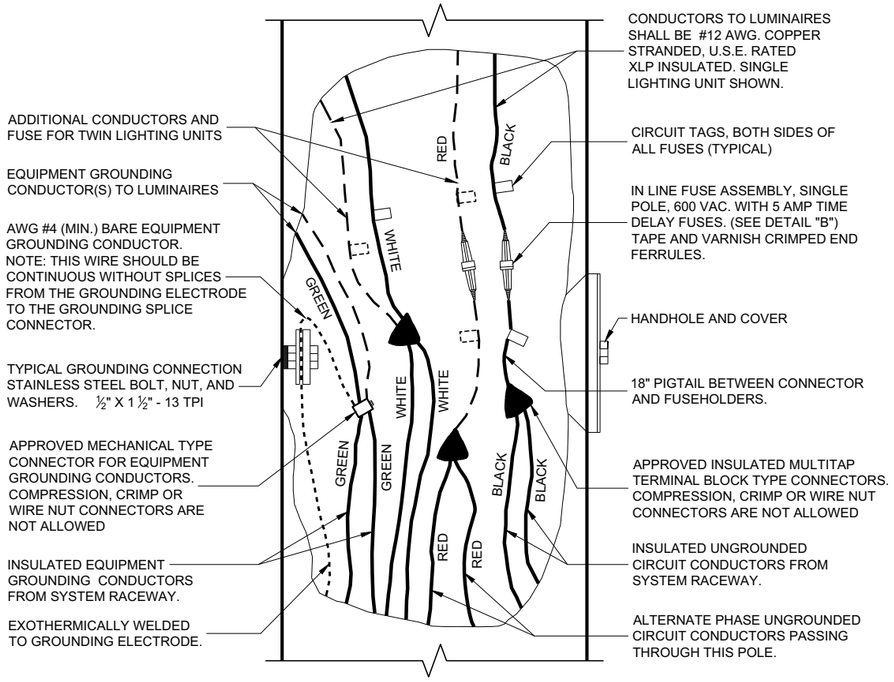


DETAIL "A"
BREAKAWAY DOUBLE POLE WITH WATERPROOF INSULATING BOOT

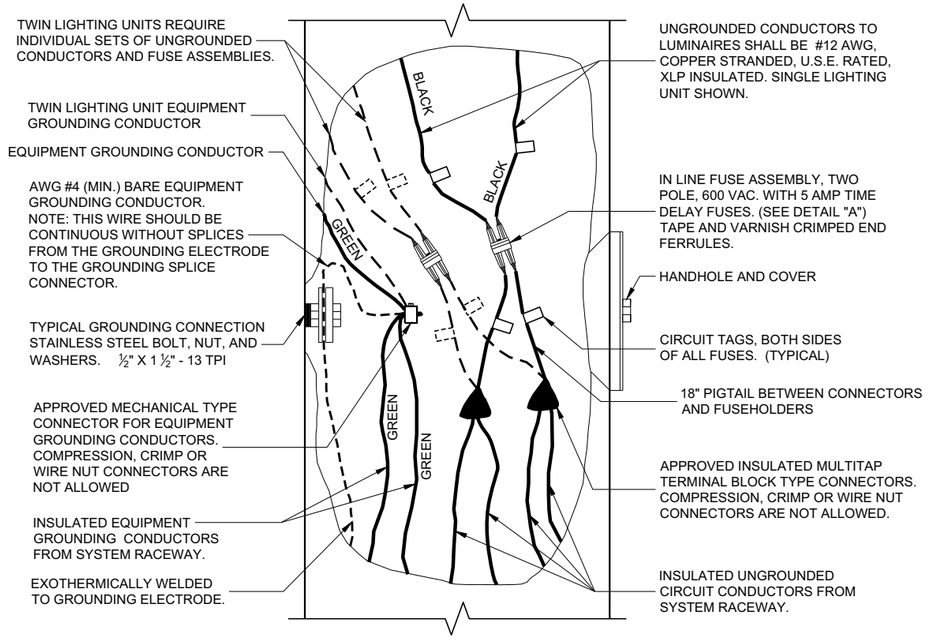
DETAIL "B"
BREAKAWAY SINGLE POLE WITH WATERPROOF INSULATING BOOT



TYPICAL GROUNDING CONNECTIONS
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



3 WIRE - 120, 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH GROUNDING CONDUCTOR AND EQUIPMENT GROUNDING CONDUCTOR



2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR

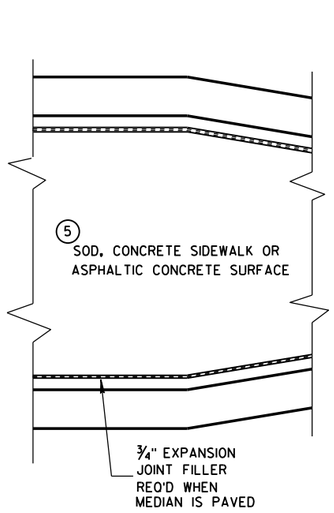
NON - FREEWAY LIGHTING UNIT POLE WIRING

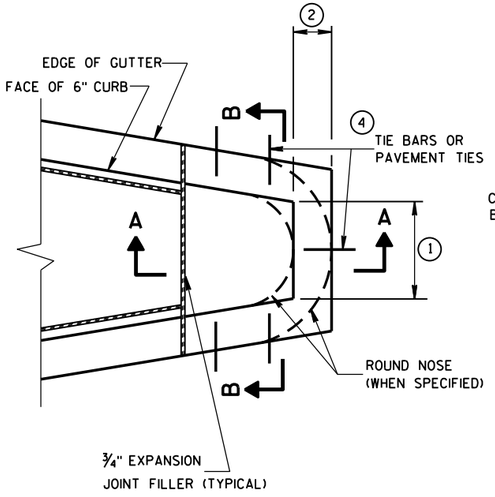
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

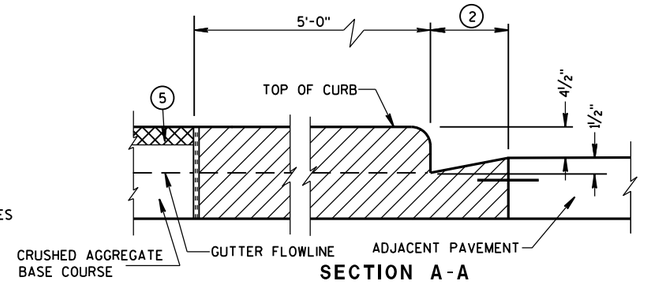
APPROVED
November 2018
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

FHWA

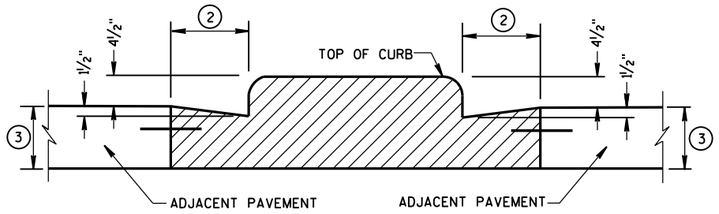
6
SDD 09E03 - 06







SECTION A-A



SECTION B-B

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.

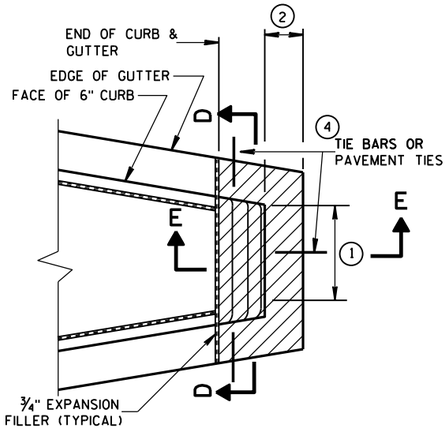
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

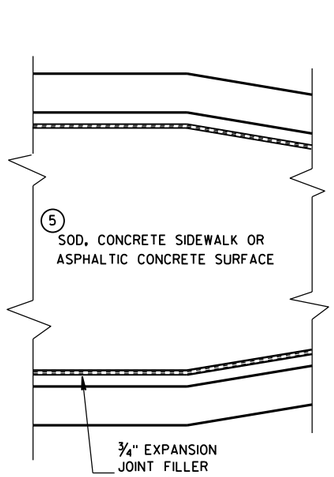
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

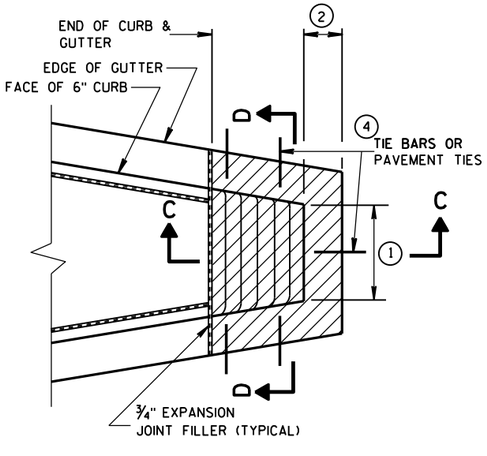
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

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.

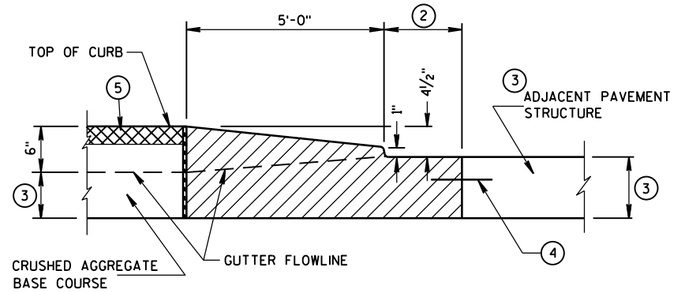
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.



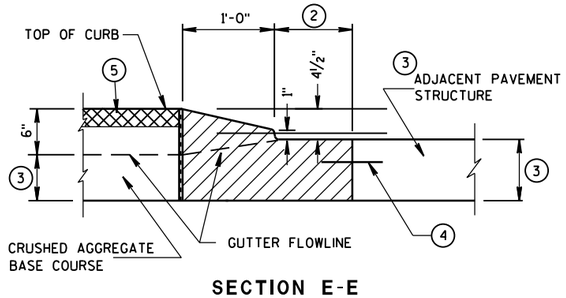




CONCRETE MEDIAN SLOPED NOSE TYPE 1

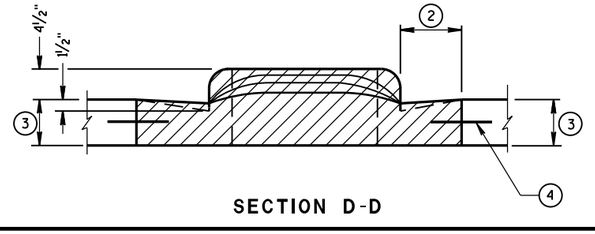


SECTION C-C



SECTION E-E

CONCRETE MEDIAN SLOPED NOSE TYPE 2



SECTION D-D

CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

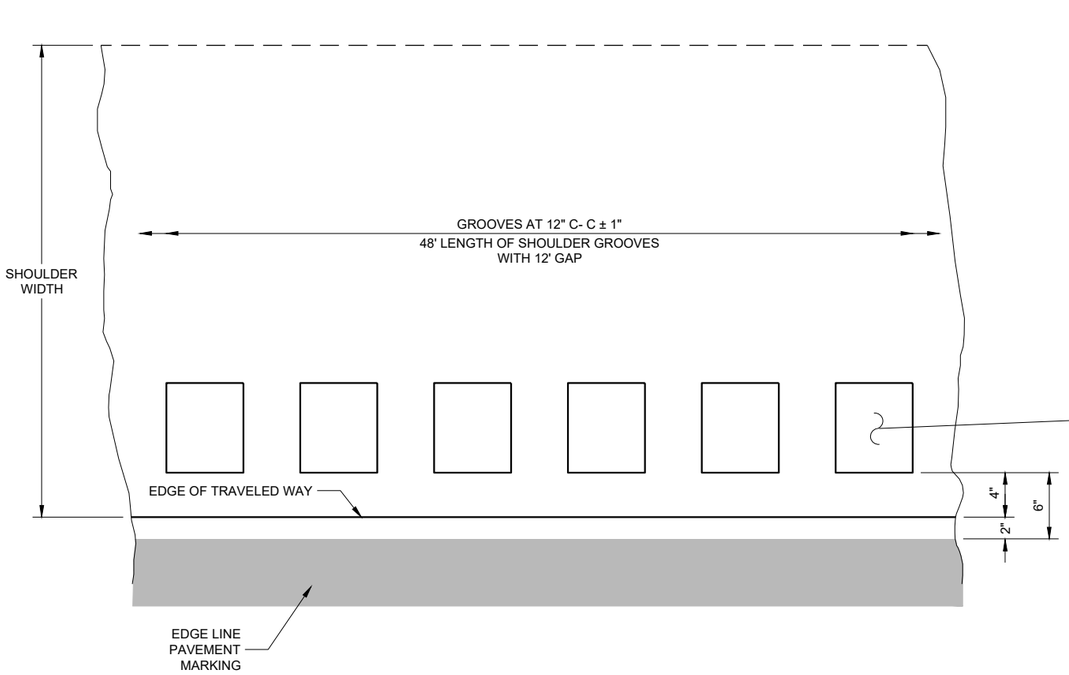
APPROVED
6/8/2006 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

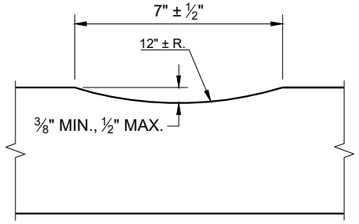
S.D.D. 11 B 2-2

6

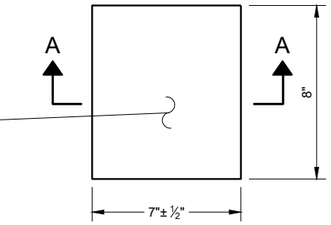
S.D.D. 11 B 2-2



PLAN DETAIL VIEW
SHOULDER WITH GROOVES



SECTION A - A

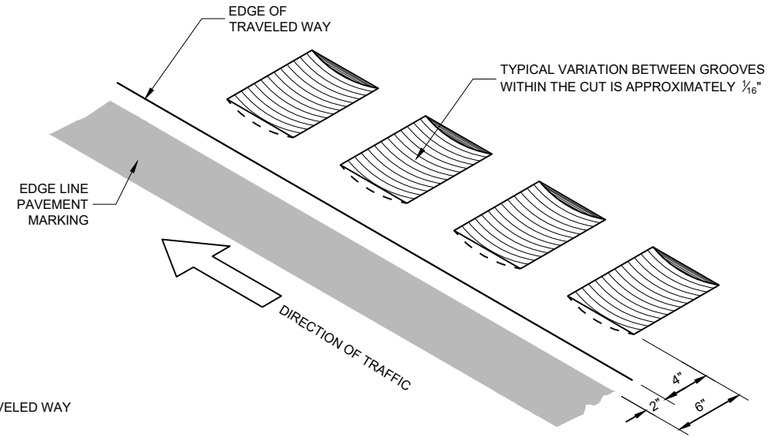


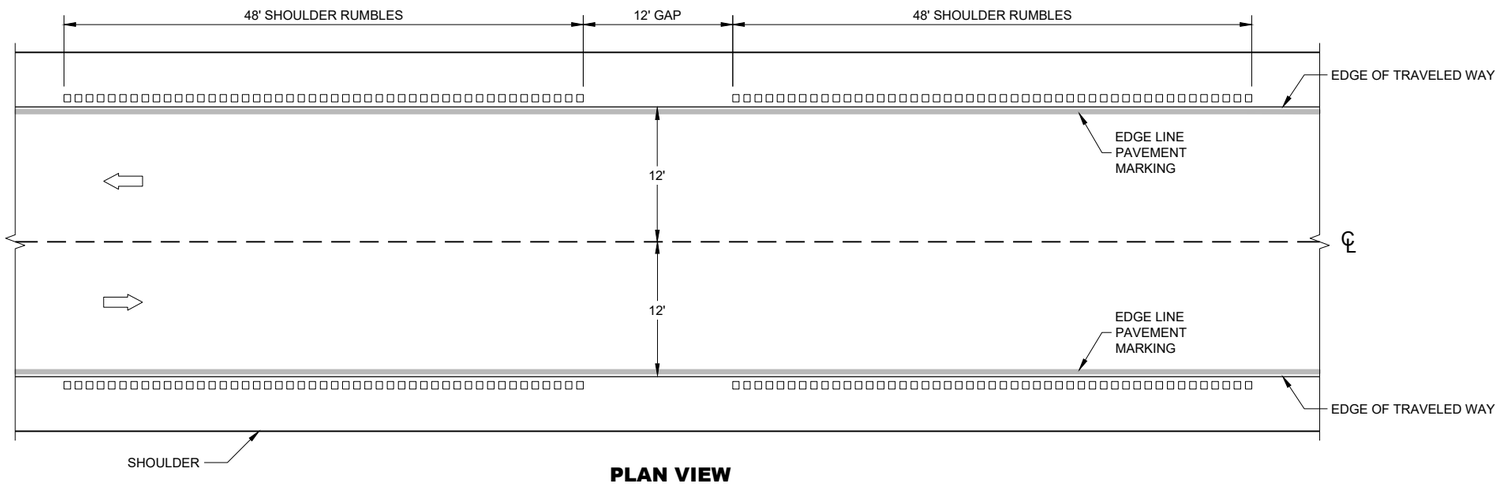
PLAN VIEW
(SINGLE GROOVE)

GENERAL NOTES

DO NOT MILL SHOULDER GROOVES THROUGH INTERSECTIONS, MARKED CROSSWALKS, NON-MOTORIZED PATH CROSSINGS, ETC. REFER TO SDD 13A10 SHEETS "g" AND "h".

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





PLAN VIEW

SHOULDER RUMBLE STRIPS - ASPHALT

6

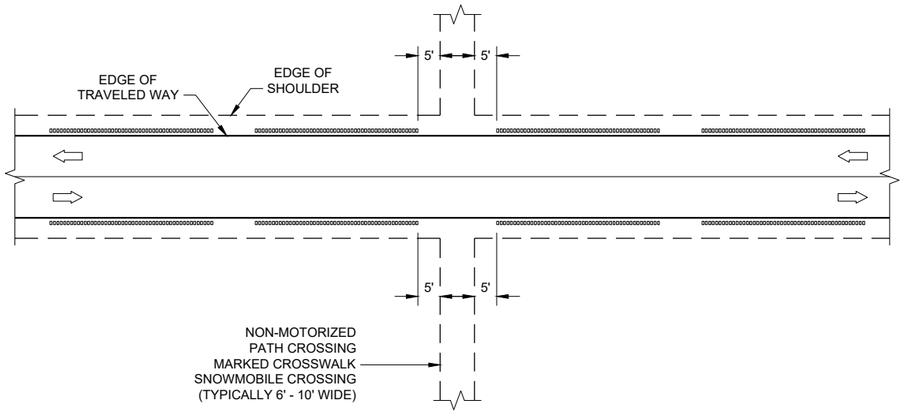
SDD 13A10 - 03a

SHOULDER RUMBLE STRIPS ASPHALT

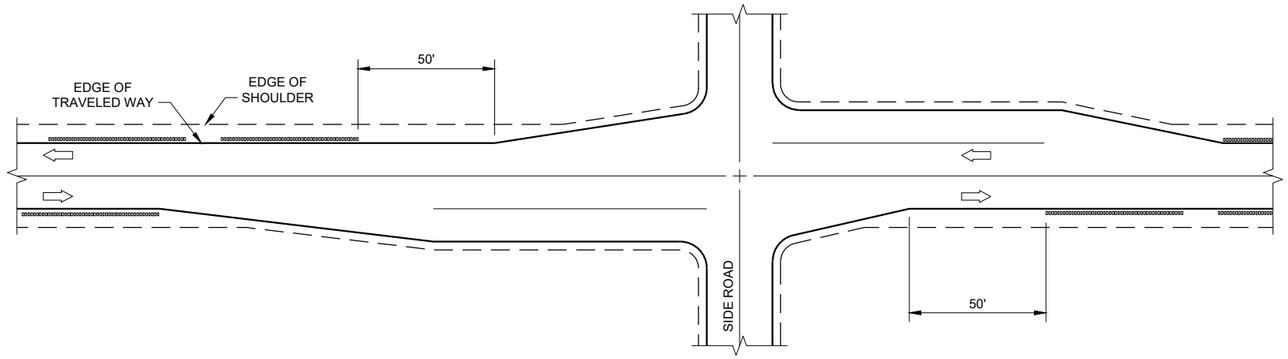
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA

6

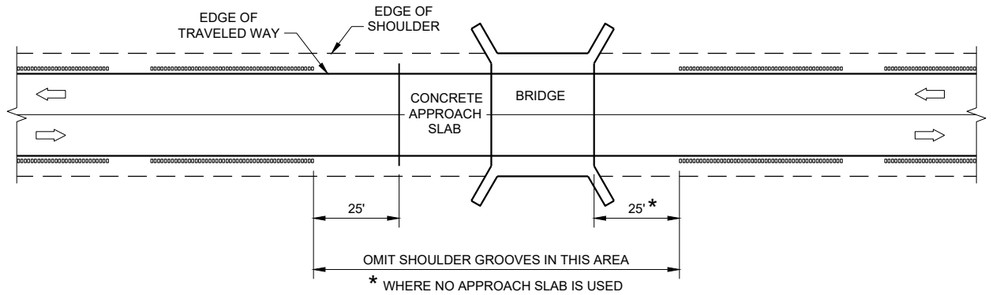
SDD 13A10 - 03a



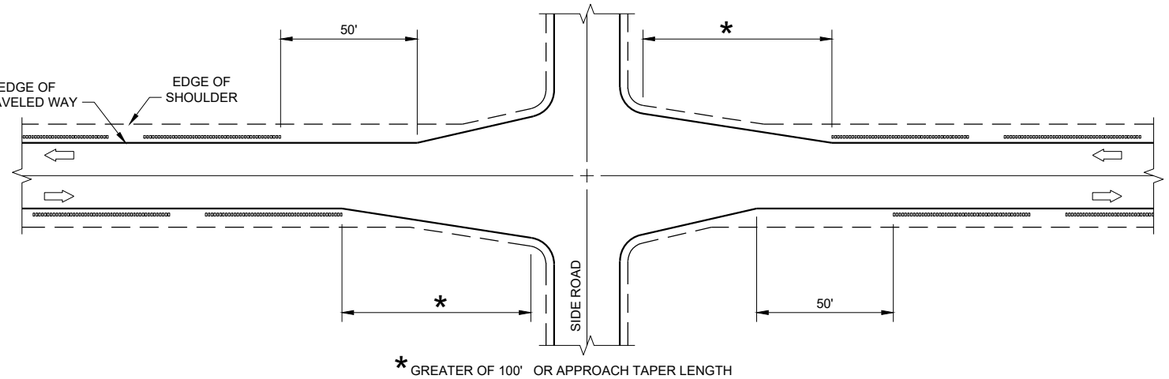
GROOVES AT MISCELLANEOUS CROSSINGS



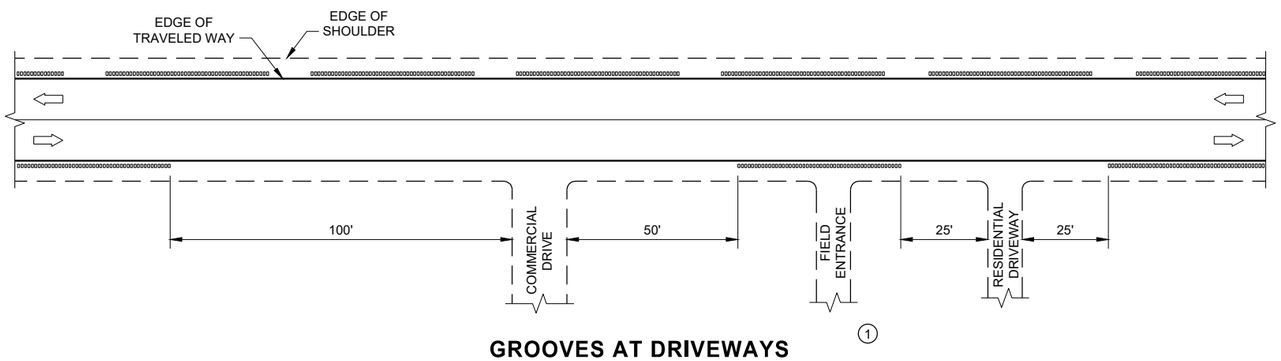
GROOVES AT RIGHT TURN LANE



GROOVES AT BRIDGES



GROOVES AT INTERSECTIONS WITH APPROACH TAPER



GROOVES AT DRIVEWAYS ①

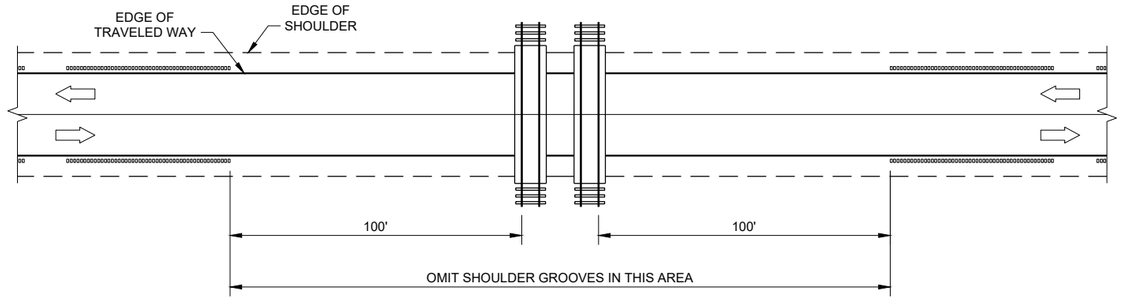
GENERAL NOTES

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

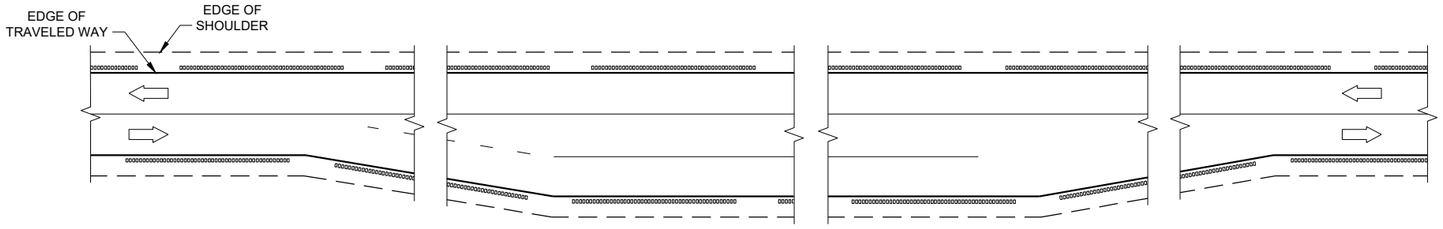
SHOULDER AND EDGE LINE RUMBLE STRIPS CROSSINGS, INTERSECTIONS, BRIDGES, DRIVEWAYS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

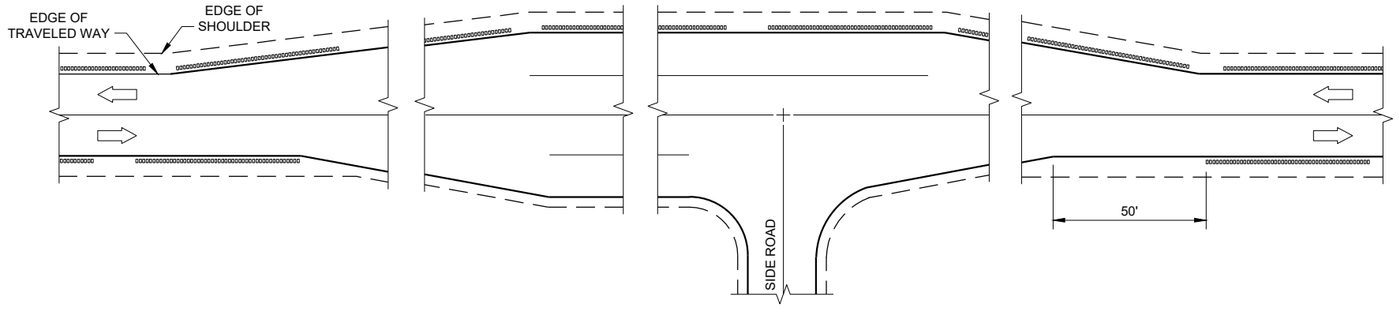
6
SDD 13A10 - 03g



GROOVES AT RAILROADS



GROOVES AT PASSING AND CLIMBING LANES



GROOVES AT BYPASS LANES

SHOULDER AND EDGE LINE RUMBLE STRIPS - RAILROAD, PASSING, CLIMBING AND BYPASS LANES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2023
DATE

/S/ John Jenkins
ROADWAY STANDARDS DEVE ENGINEER

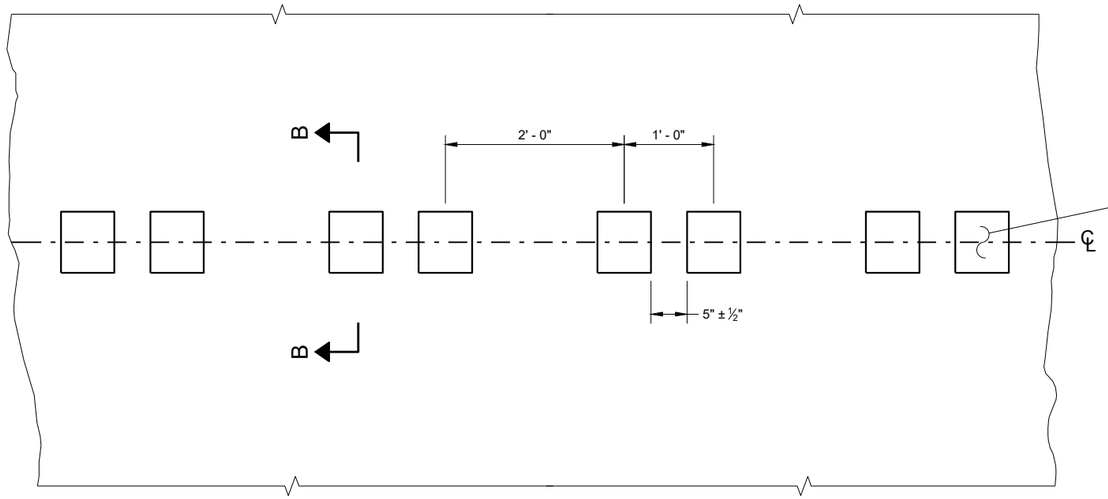
FHWA

6
SDD13A10 - 03h

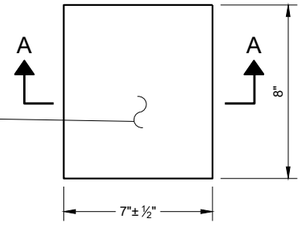
GENERAL NOTES

DO NOT MILL SHOULDER GROOVES THROUGH INTERSECTIONS, MARKED CROSSWALKS, NON-MOTORIZED PATH CROSSINGS, ETC. REFER TO SDD 13A11 SHEETS "d" AND "e".

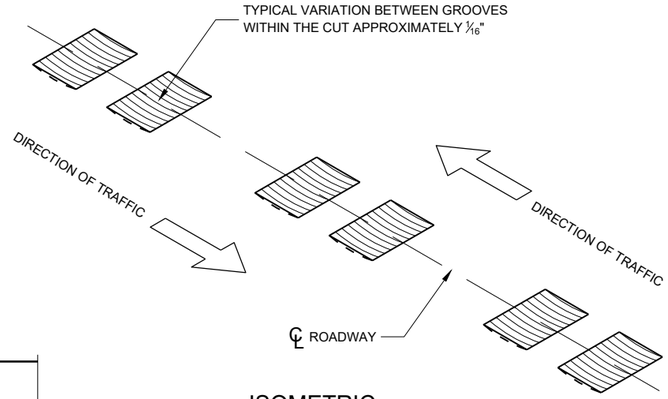
CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS WHEN DIRECTED BY THE ENGINEER.



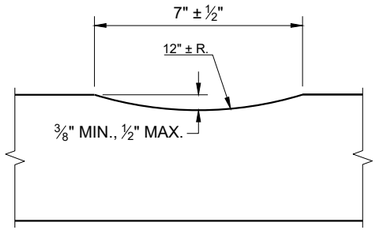
PLAN DETAIL VIEW



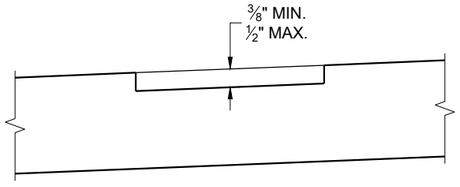
PLAN VIEW
(SINGLE GROOVE)



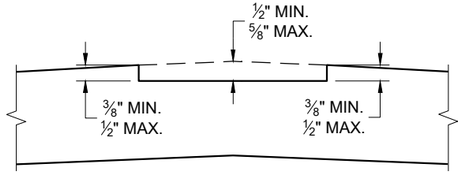
ISOMETRIC



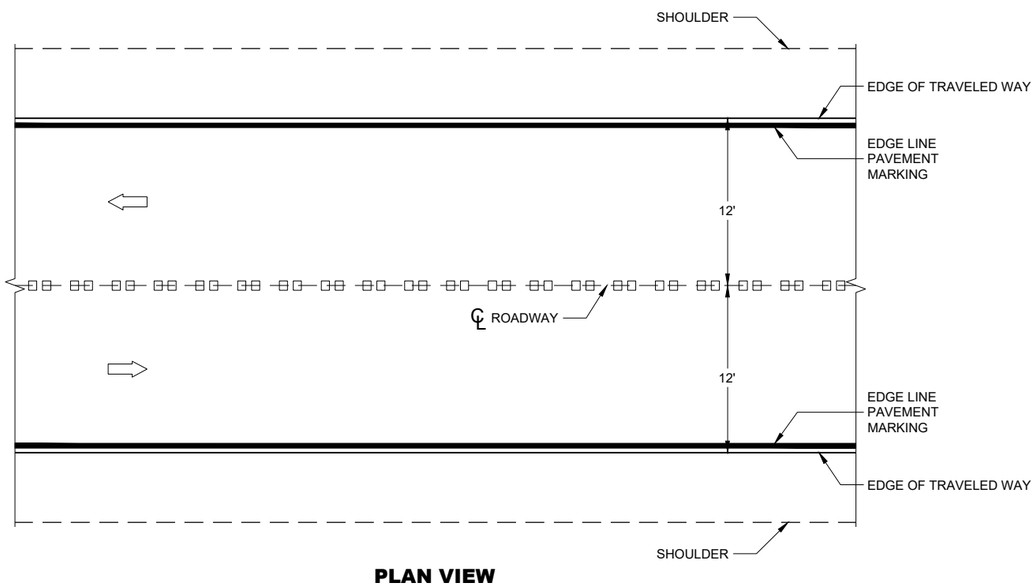
SECTION A - A



SECTION B - B
SUPERELEVATED ROADWAY



SECTION B - B
CROWNED ROADWAY



PLAN VIEW

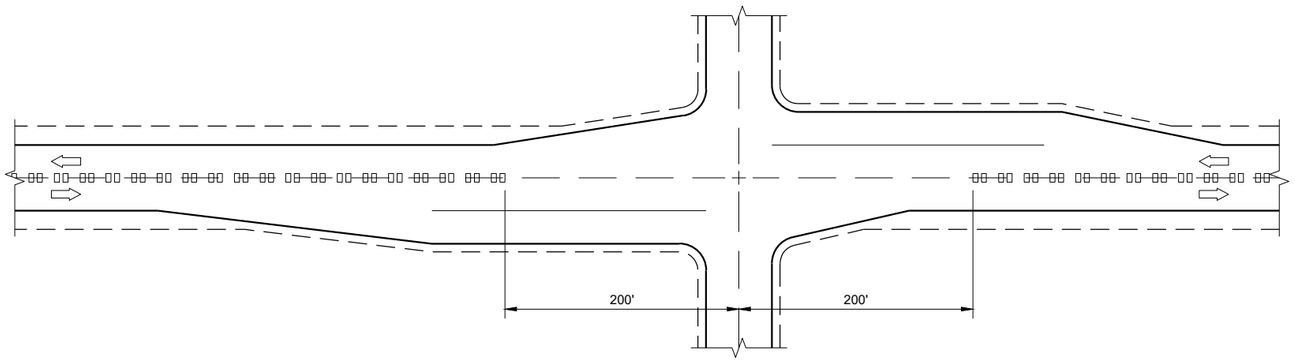
CENTERLINE RUMBLE STRIPS - ASPHALT

6

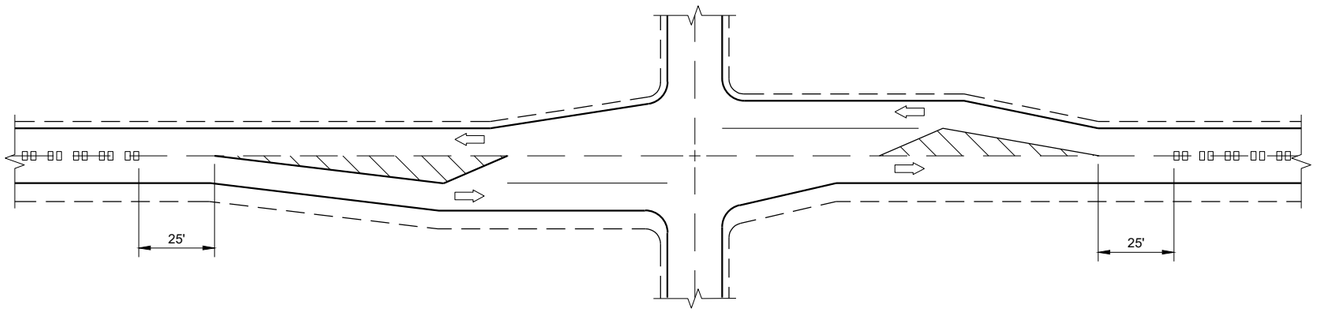
CENTERLINE RUMBLE STRIPS - ASPHALT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA 117

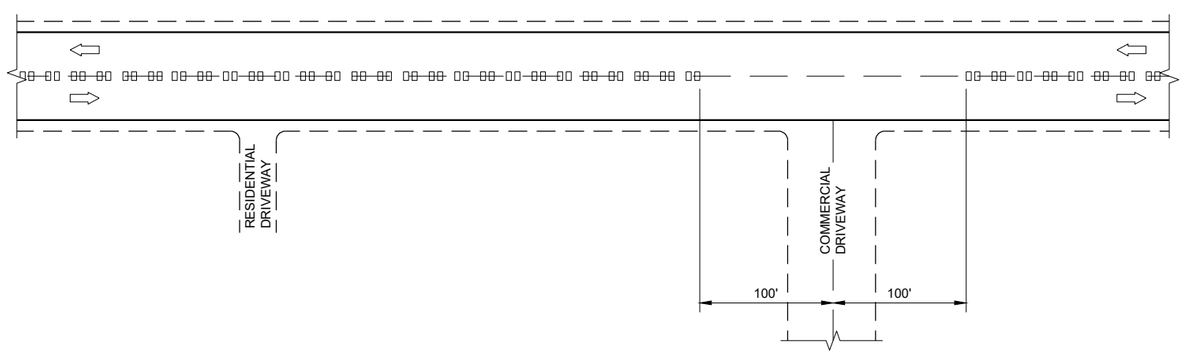
SDD 13A11 - 04a



CENTERLINE GROOVES AT INTERSECTIONS



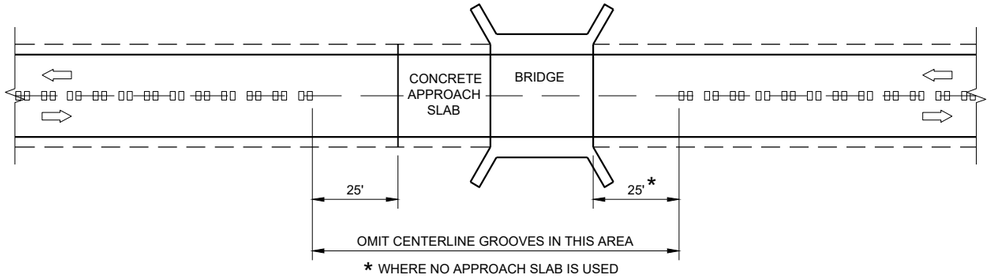
CENTERLINE GROOVES AT INTERSECTIONS (WITH LEFT TURN LANES)



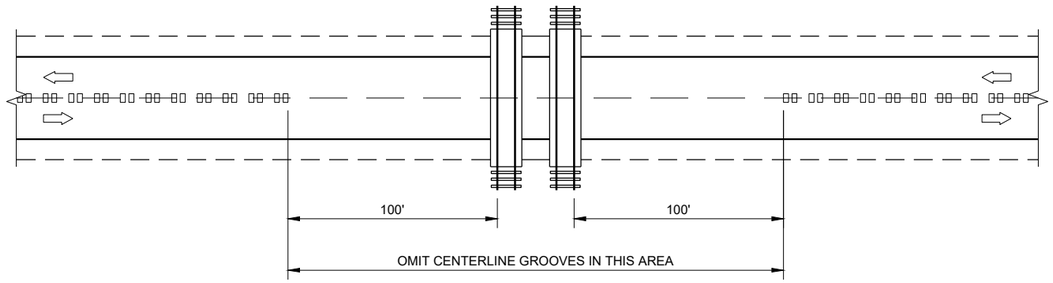
CENTERLINE GROOVES AT DRIVEWAYS (1)

GENERAL NOTES

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



CENTERLINE GROOVES AT BRIDGES



CENTERLINE GROOVES AT RAILROADS

CENTER LINE RUMBLE STRIPS - INTERSECTIONS, DRIVEWAYS, BRIDGES, RAIL ROADS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ John Jenkins — ROADWAY STANDARDS DEVE ENGINEER

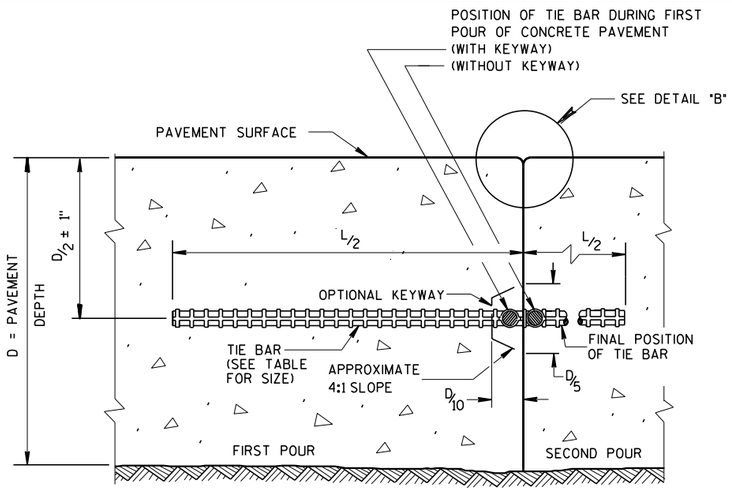
FHWA

6

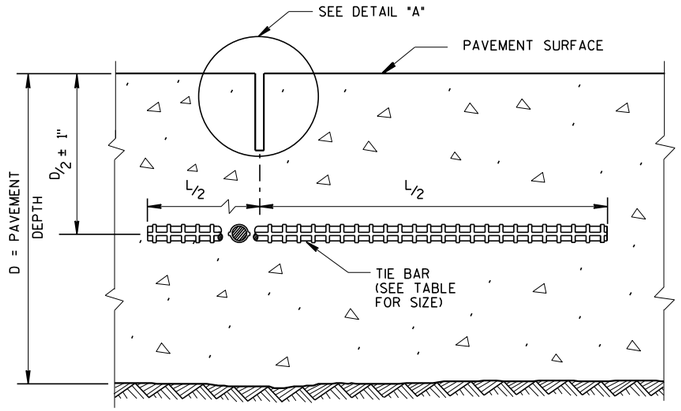
SDD 13A11 - 04d

6

SDD 13A11 - 04d



CONSTRUCTION JOINT



SAWED JOINT

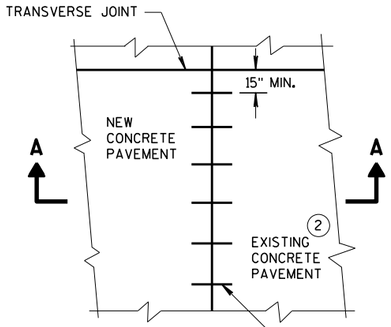
GENERAL NOTES

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

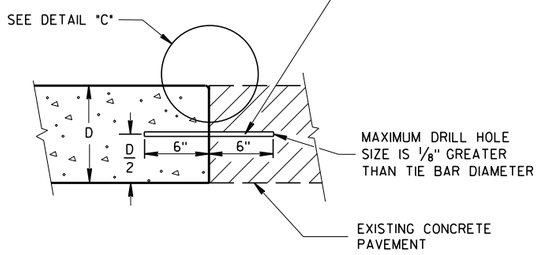
CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

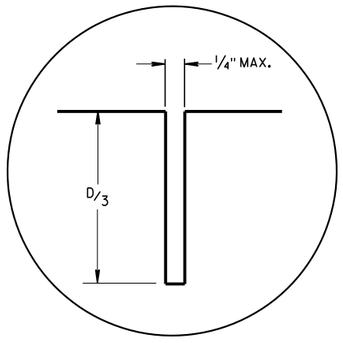


PLAN VIEW

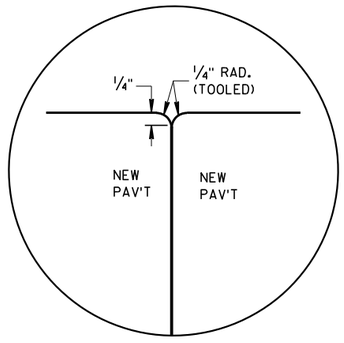


SECTION A-A

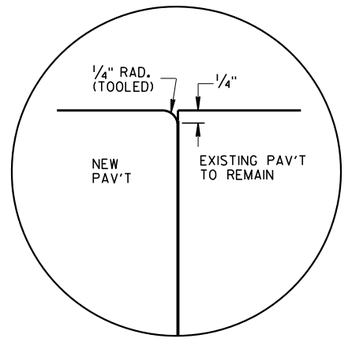
LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT



DETAIL "A"



DETAIL "B"



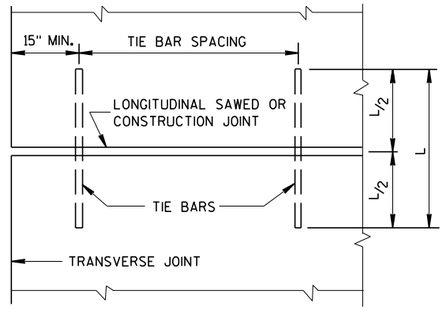
DETAIL "C"

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.

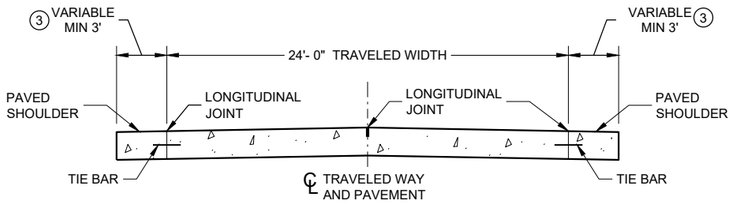


PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

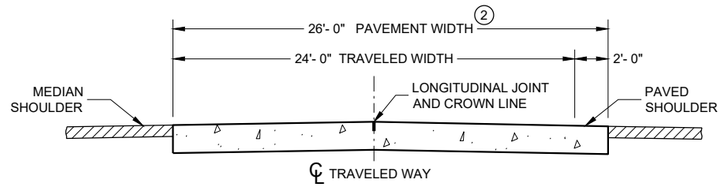
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Peter Kemp PE — PAVEMENT SUPE
FHWA

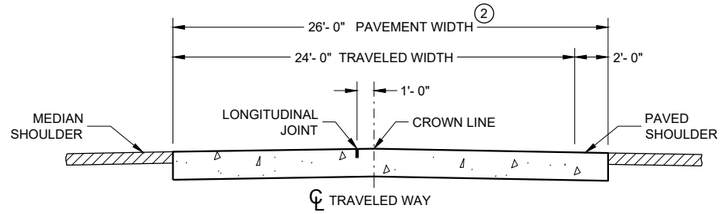


SECTION A - A

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.

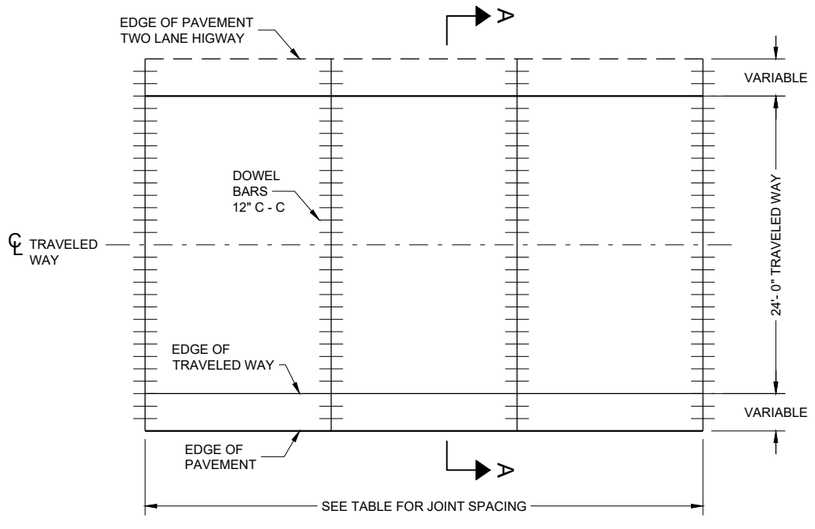
(1) REFER TO TYPICAL CROSS SECTIONS FOR ADDITIONAL DETAILS.

(2) MEASURE THE ENTIRE PAVED WIDTH INCLUDING THE PORTION(S) LABELED "PAVED SHOULDER" AS CONCRETE PAVEMENT.

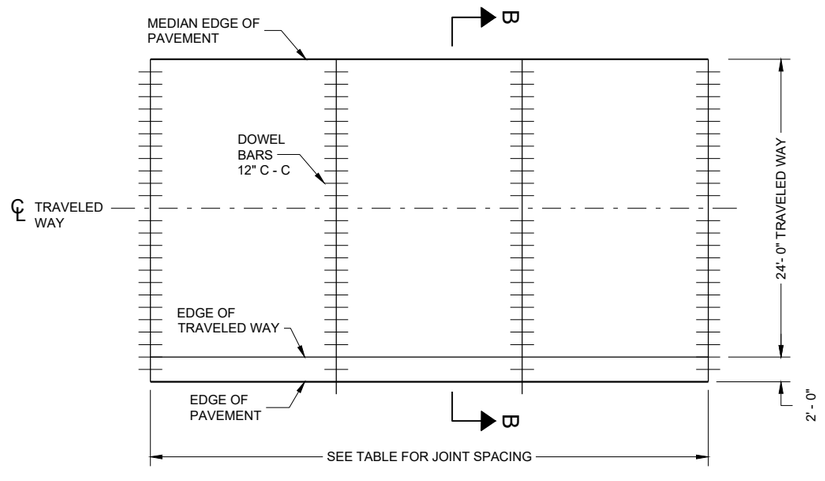
(3) SHOULDER WIDTHS LESS THAN 3 FEET SHALL BE PAVED INTEGRAL TO THE MAINLINE CONCRETE PAVEMENT, SEE SECTION B-B.

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8" & ABOVE	1 ¼"	15'



CONTRACTION JOINT LAYOUT FOR TWO-LANE TWO-WAY HIGHWAY



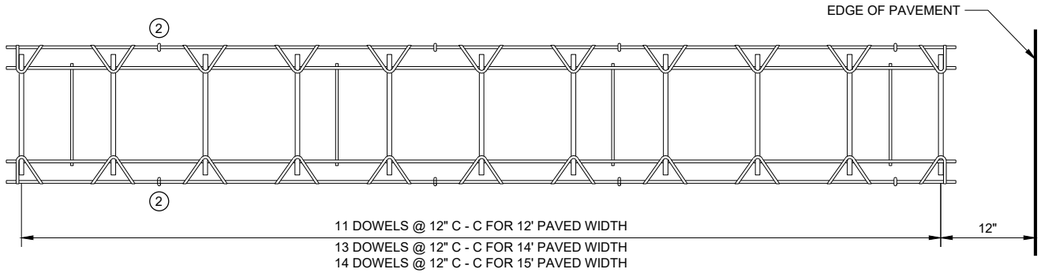
CONTRACTION JOINT LAYOUT FOR DIVIDED HIGHWAY

RURAL DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD13C11 - 14a



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.

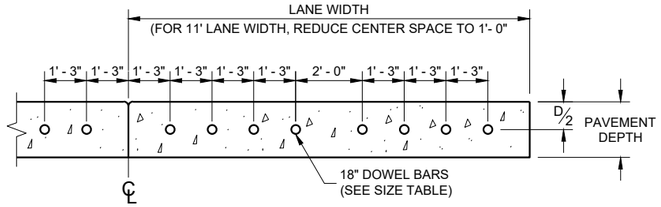
(3) FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼" RADIUS AT FORMED JOINTS.

(4) PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

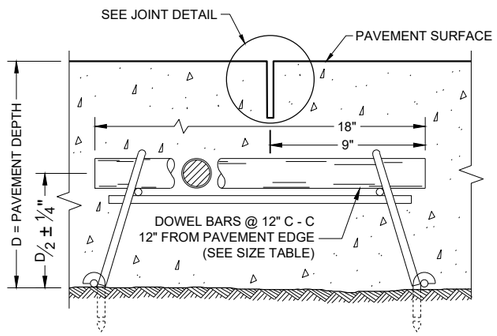
(5) INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C - C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO THE "DRILLED DOWEL BAR CONSTRUCTION JOINT" DETAIL.

(6) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

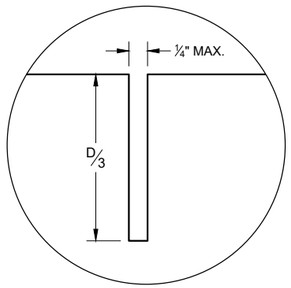
(7) ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS ⅛" GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



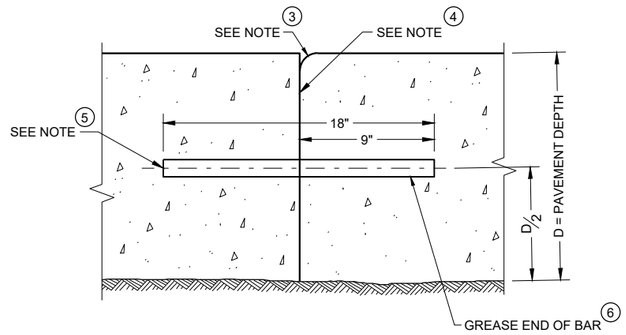
DRILLED DOWEL BAR CONSTRUCTION JOINT (7)



DOWELED CONTRACTION JOINT



JOINT DETAIL



TRANSVERSE CONSTRUCTION JOINT

RURAL DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

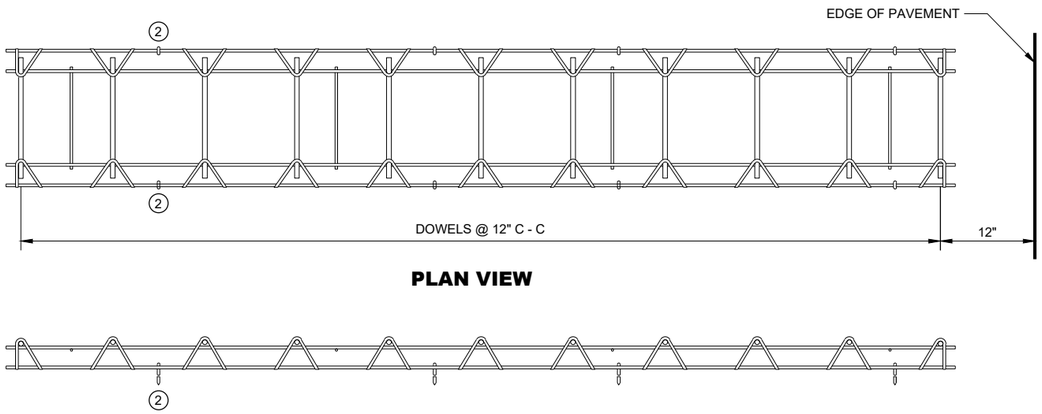
APPROVED
November 2022
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

FHWA

6

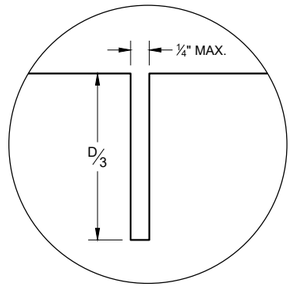
SDD 13C11 - 14b



PLAN VIEW

SIDE VIEW

CONTRACTION JOINT DOWEL ASSEMBLY (1)



JOINT DETAIL

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) 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.

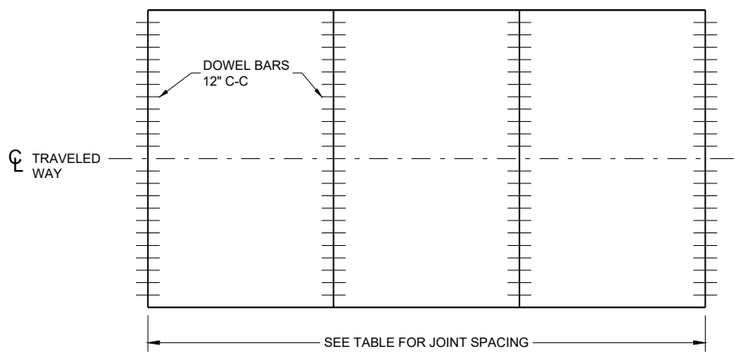
(3) FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼" RADIUS AT FORMED JOINTS.

(4) PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

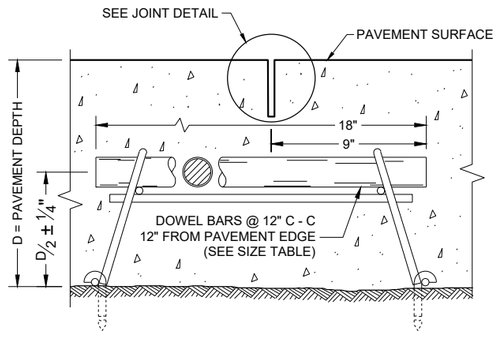
(5) INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C - C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO THE "DRILLED 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.



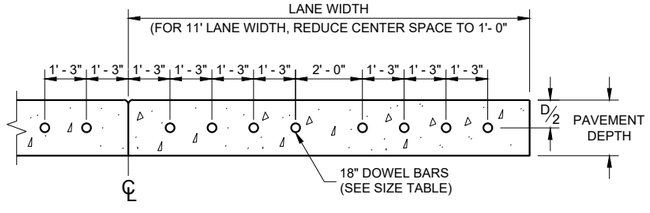
CONTRACTION JOINT LOCATIONS



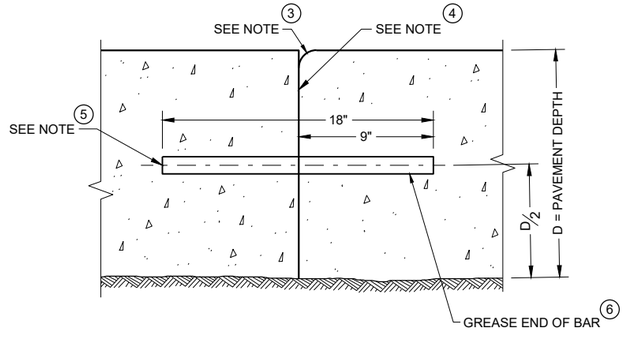
DOWELED CONTRACTION JOINT

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8" & ABOVE	1 ¼"	15'



DRILLED DOWEL BAR CONSTRUCTION JOINT (7)



TRANSVERSE CONSTRUCTION JOINT

URBAN DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

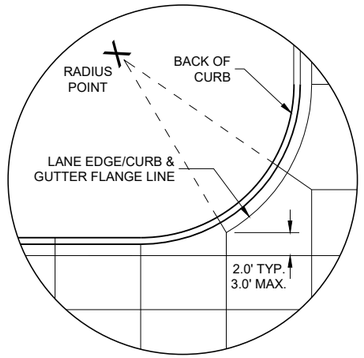
APPROVED
November 2022
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

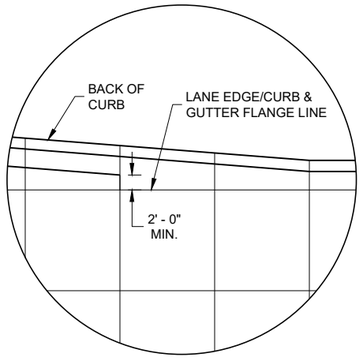
FHWA

6

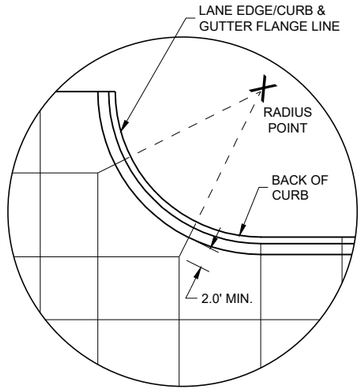
SDD 13C13 - 11



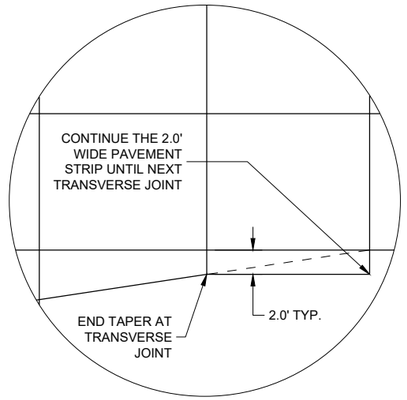
DETAIL "A"



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.

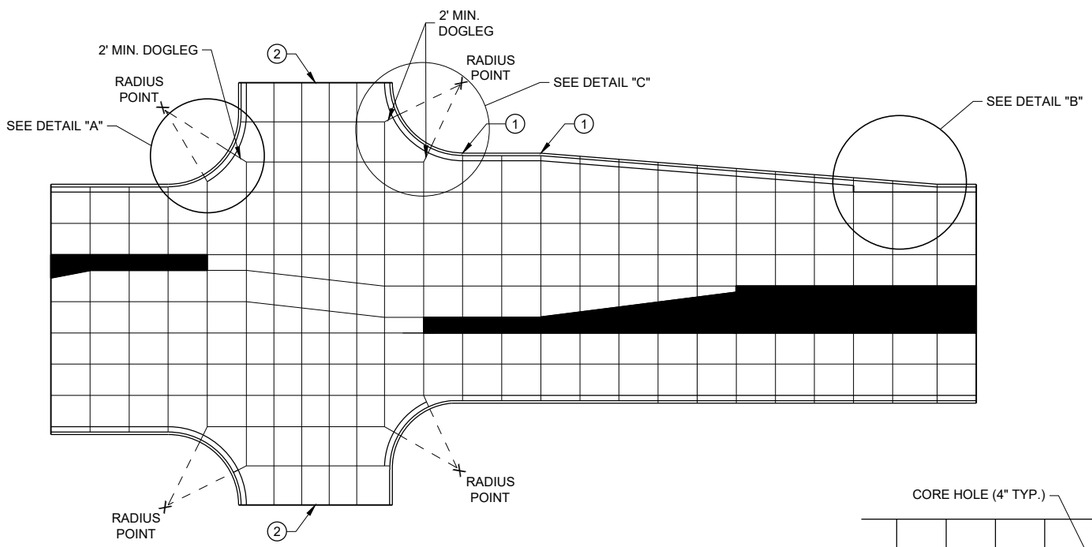
AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

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 WITH EDGE OF RADIUS.

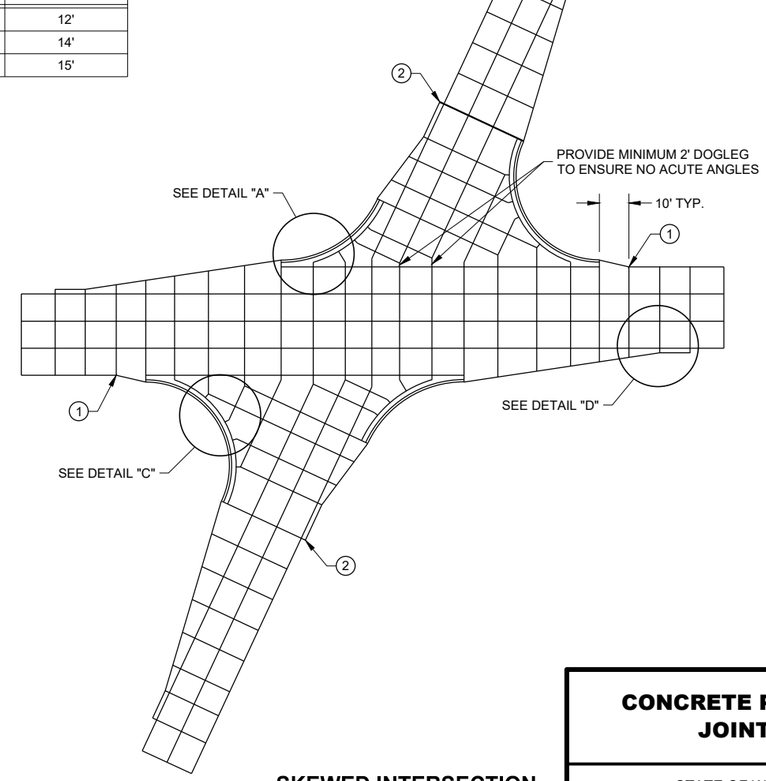
(3) THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



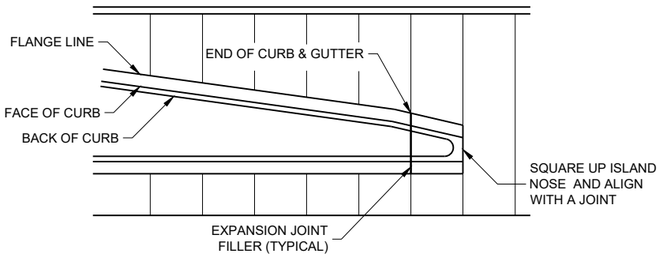
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

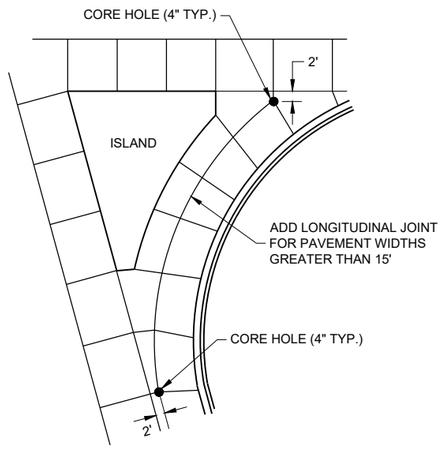
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 ½"	12'
7", 7 ½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 13C18 - 08a

6

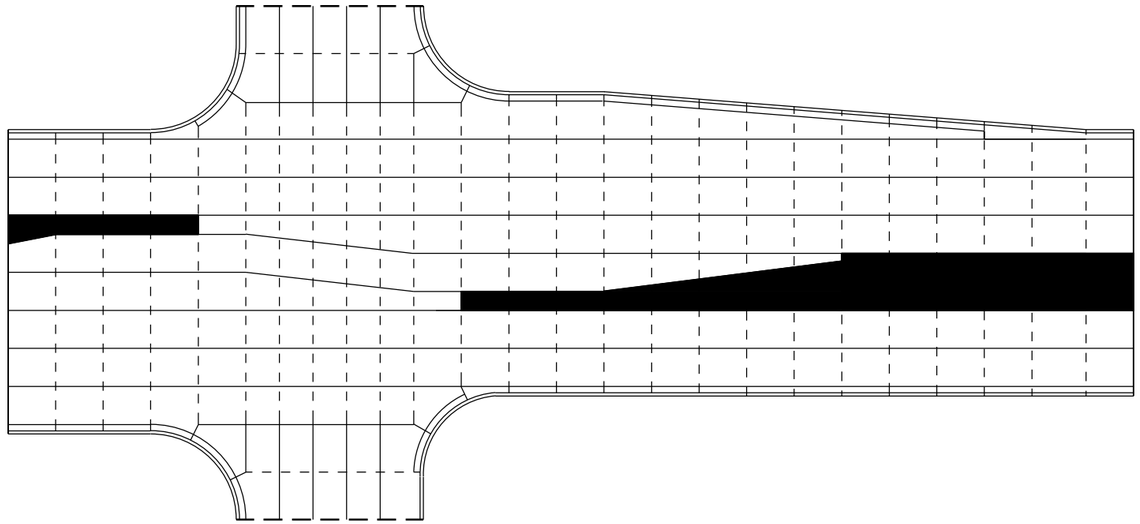
SDD 13C18 - 08a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

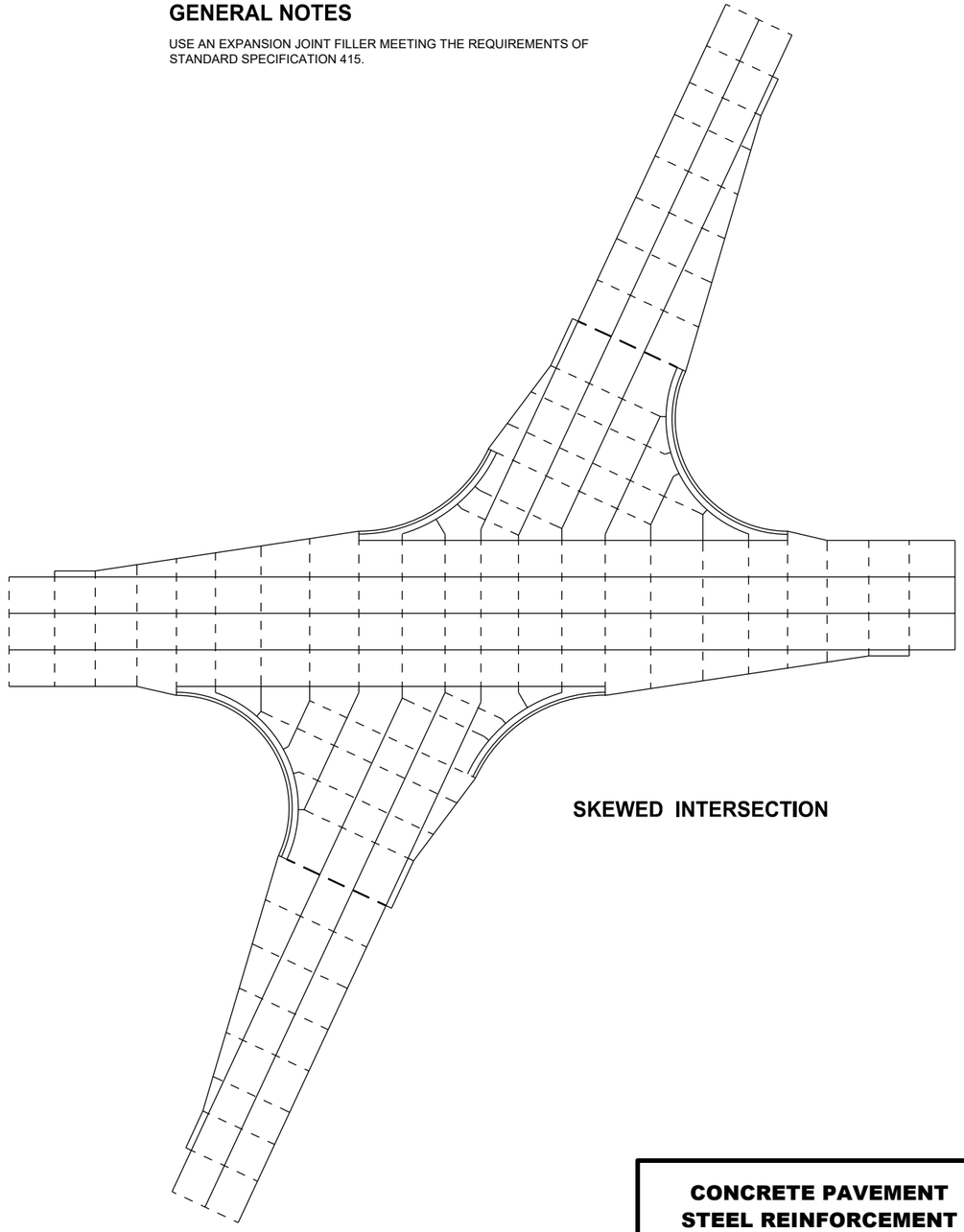
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

6

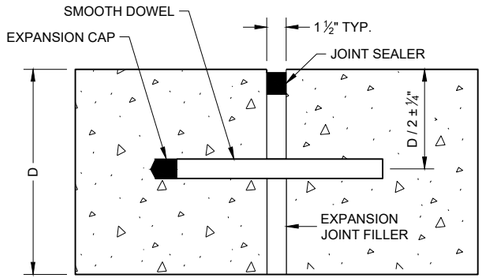
SDD 13C18 - 08b

CONCRETE PAVEMENT STEEL REINFORCEMENT

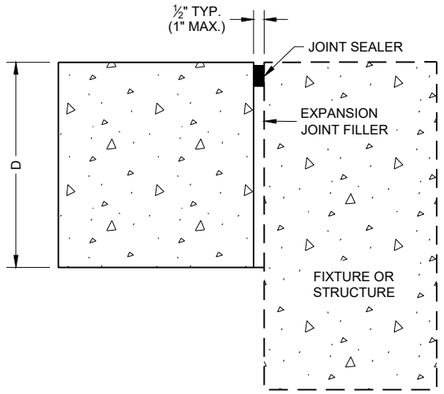
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA

6

SDD 13C18 - 08b



DOWELED TRANSVERSE (1)



UNTIED - LONGITUDINAL

EXPANSION JOINTS

TIE BAR TABLE

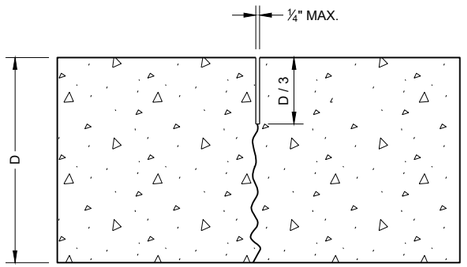
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

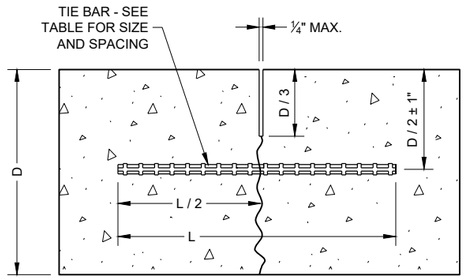
** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

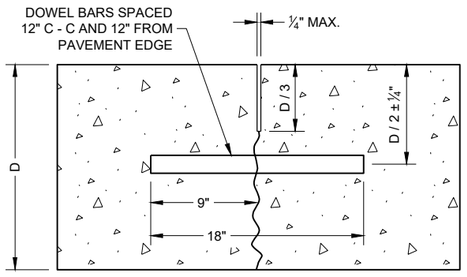
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATETHE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH SDD 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM 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

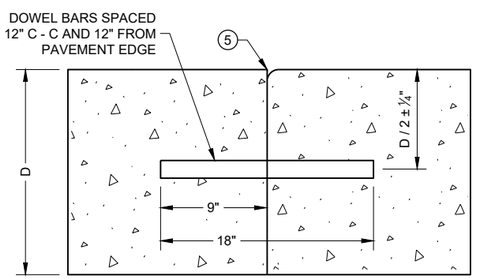


TIED LONGITUDINAL

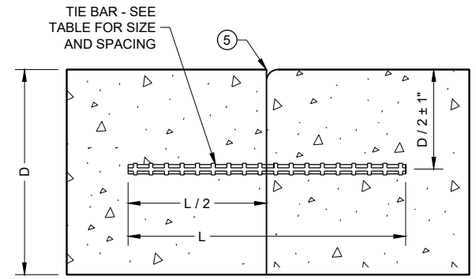


DOWELED TRANSVERSE

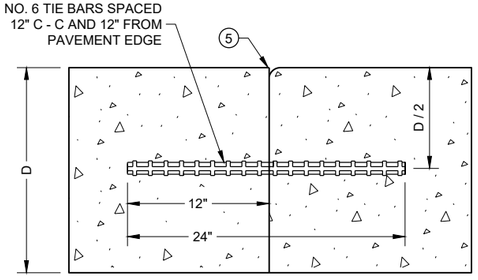
CONTRACTION JOINTS (2)



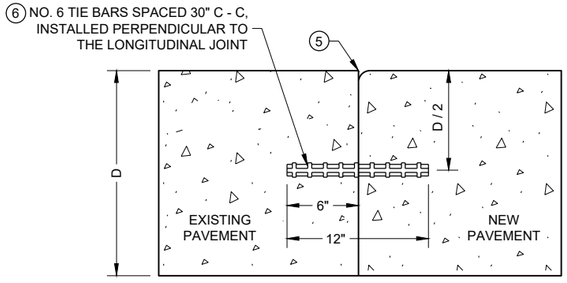
DOWELED TRANSVERSE (3)



TIED LONGITUDINAL



TIED TRANSVERSE (3)
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

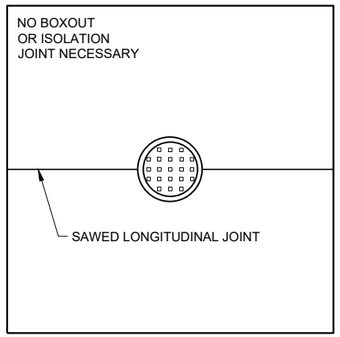
CONSTRUCTION JOINTS (4)

CONCRETE PAVEMENT JOINT TYPES

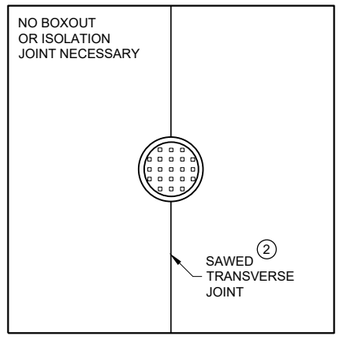
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

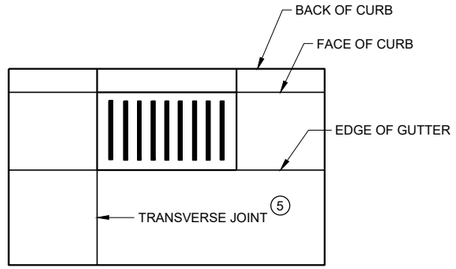
SDD 13C18 - 08c



MANHOLE WITH LONGITUDINAL JOINT



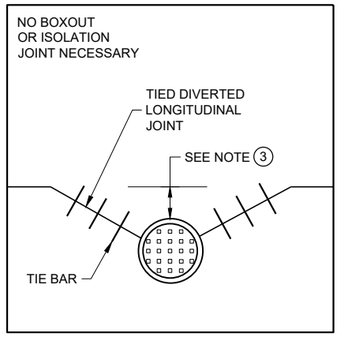
MANHOLE WITH TRANSVERSE JOINT



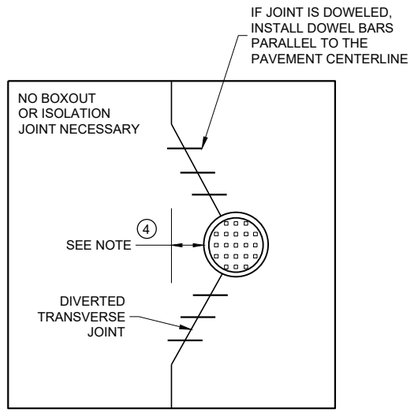
INLET WITH TRANSVERSE JOINT

GENERAL NOTES

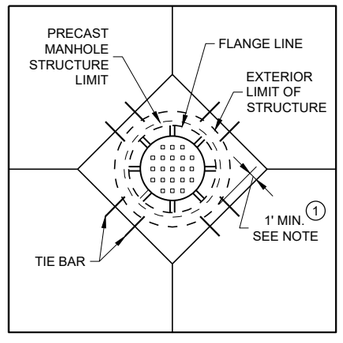
1. USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
2. ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
3. IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF 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
May 2023
DATE

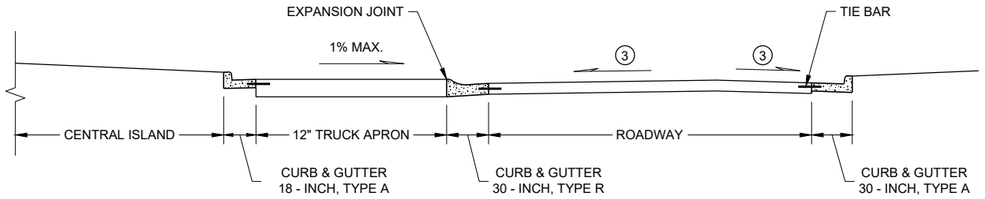
/S/ Peter Kemp P.E.
PAVEMENT SUPERVISO

FHWA

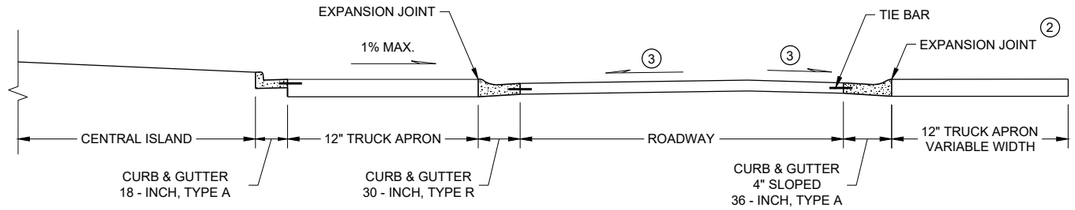
SDD13C18 - 08d

6

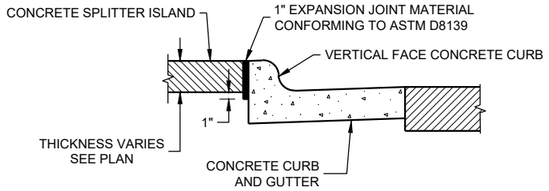
SDD13C18 - 08d



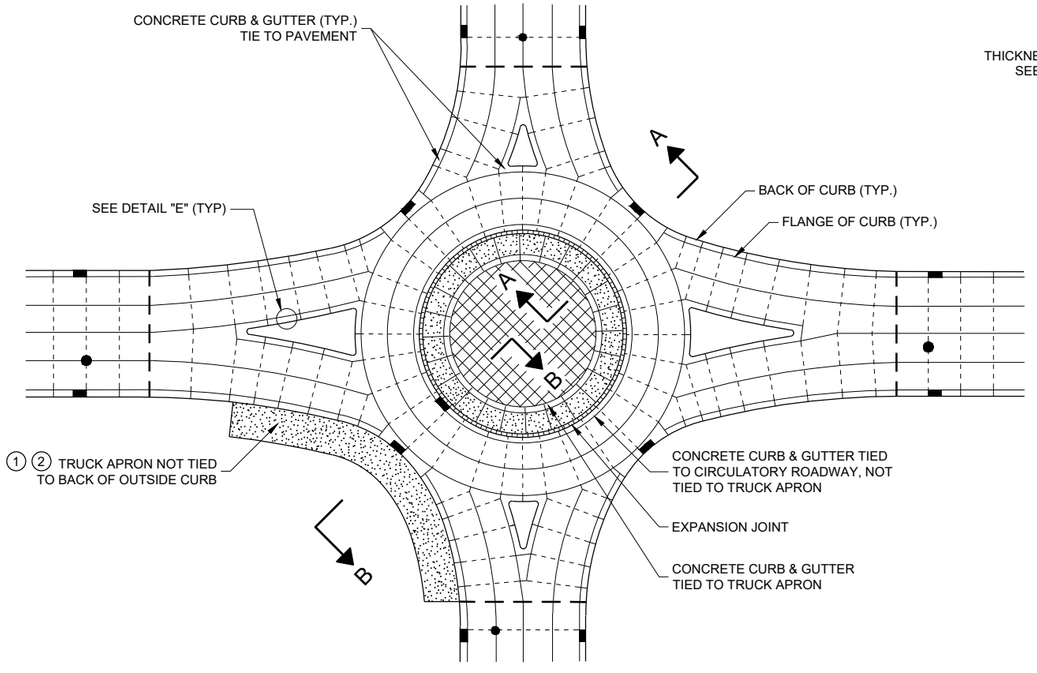
SECTION A - A



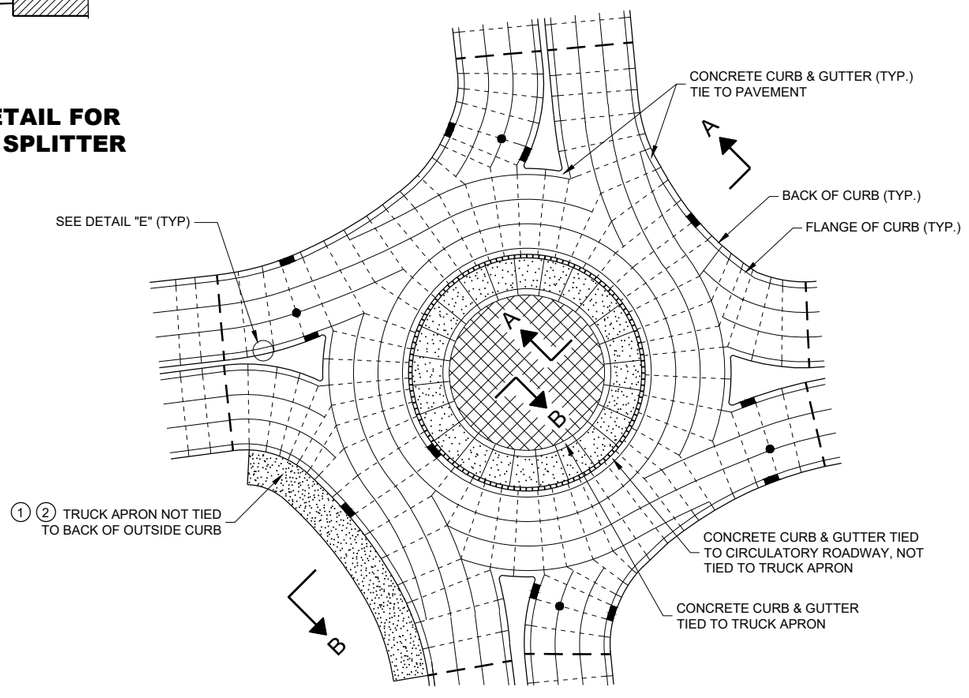
SECTION B - B



DETAIL 'E'
EXPANSION JOINT DETAIL FOR VERTICAL CURB AT A SPLITTER ISLAND



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 ACCOMMODATE 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
May 2023
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

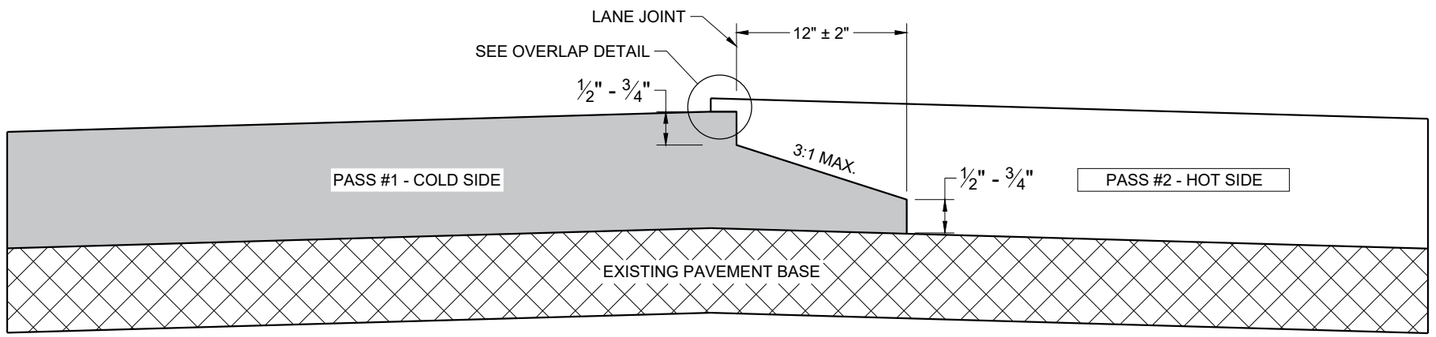
FHWA

6

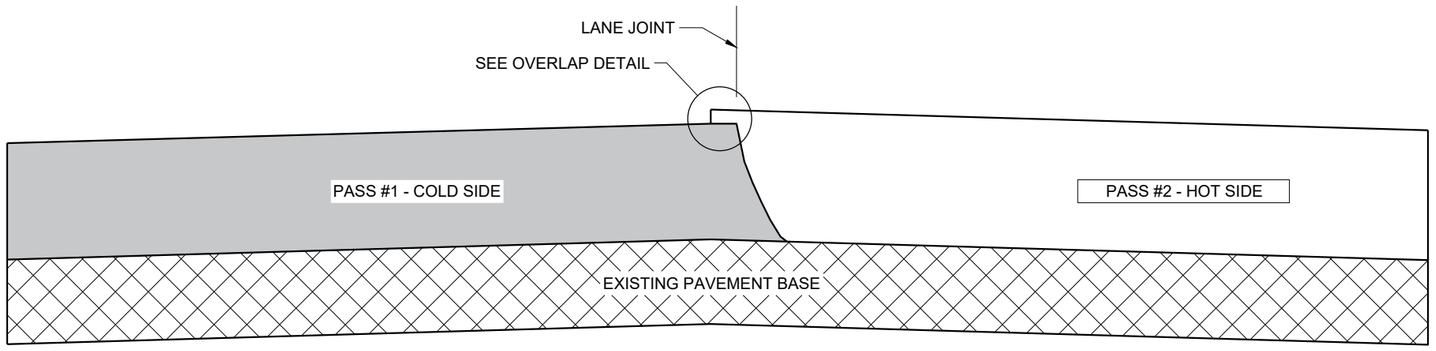
SDD 13C18 - 08e

6

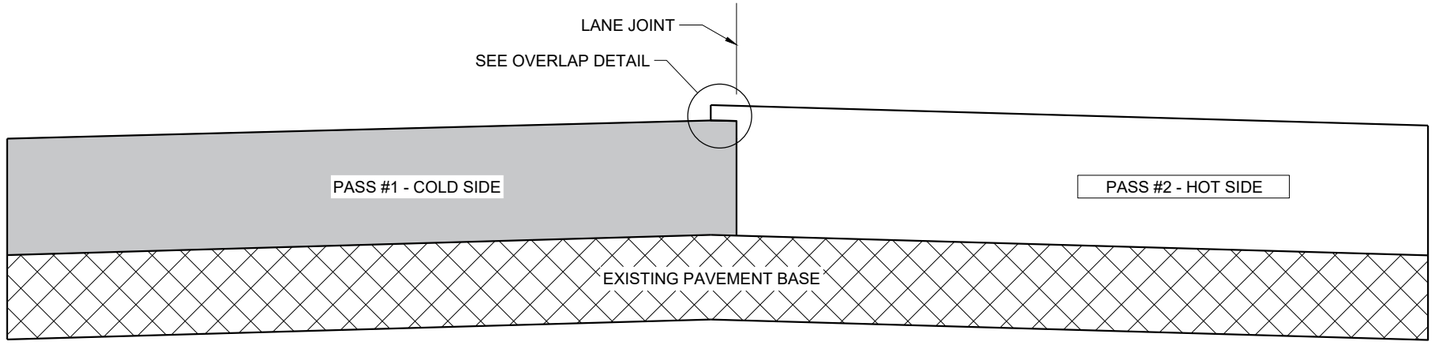
SDD 13C18 - 08e



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

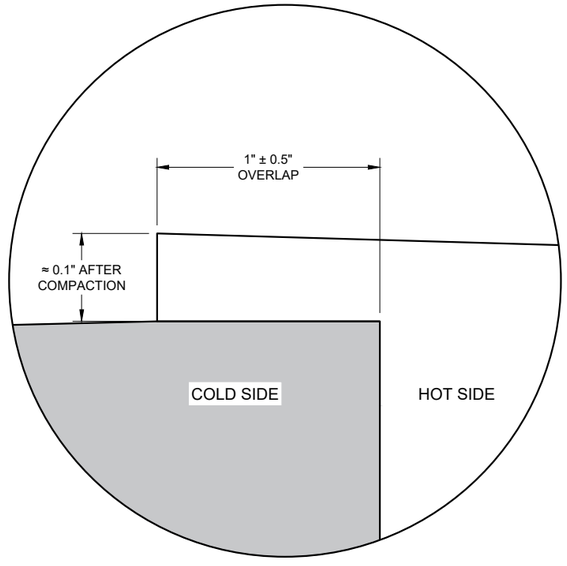
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

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)

HMA LONGITUDINAL JOINTS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED November 2020 DATE	/S/ Steven Hefel HMA PAVEMENT ENGIN

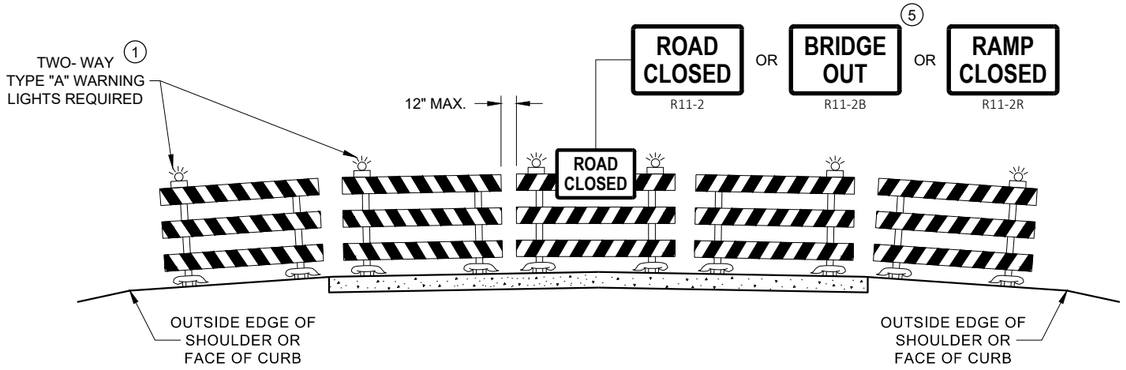
FHWA

6

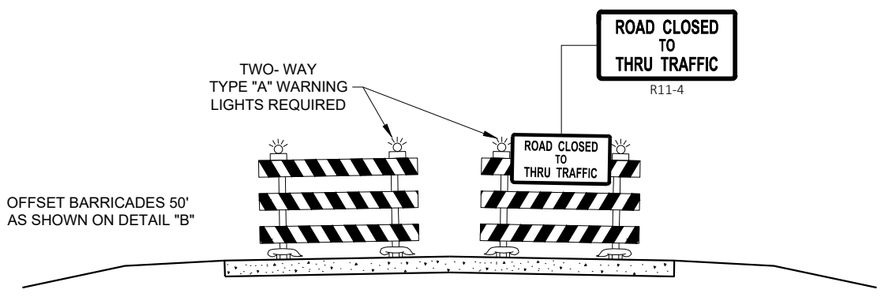
SDD 13C19 - 03

6

SDD 13C19 - 03



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

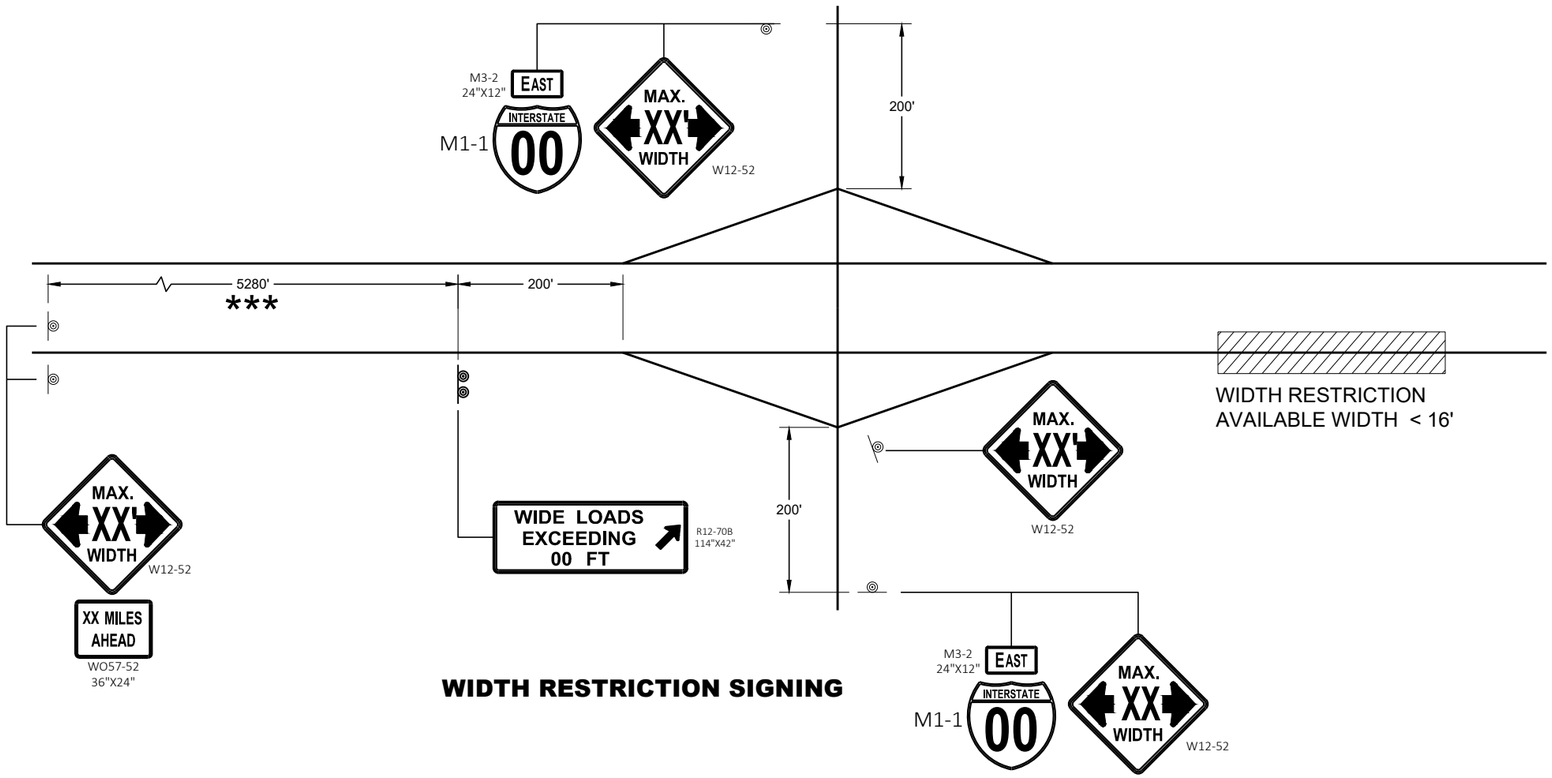
APPROVED
May 2023
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

6

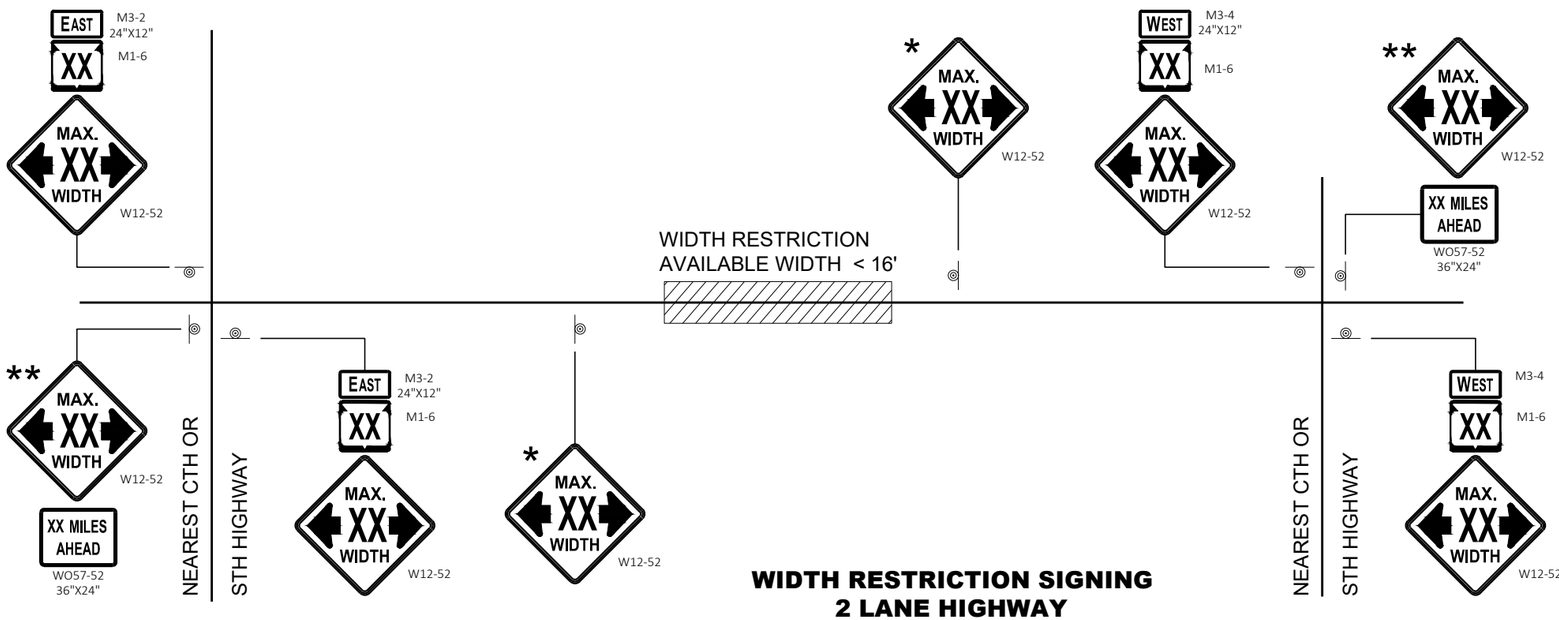
SDD 15C02 - 09b

6

SDD 15C02 - 09b



WIDTH RESTRICTION SIGNING



WIDTH RESTRICTION SIGNING
2 LANE HIGHWAY

LEGEND

◎ SIGN ON PERMANENT SUPPORT

GENERAL NOTES

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

THE SPACING BETWEEN 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.

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

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

WIDTH ON SIGN TO BE APPROXIMATELY ONE FOOT LESS THAN AVAILABLE WIDTH.

* PLACE 500 FEET AFTER THE W20 - 1A AND 500 FEET BEFORE ADDITIONAL SIGNS FOR ROADWAYS WITH A PRE - CONSTRUCTION SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350 FOOT TYPICAL SPACING. FOR 25-30 MPH, USE 200 FOOT TYPICAL SPACING.

** SIGN SHALL BE VISIBLE FROM ROADWAY.

*** ADDITIONAL SIGNS NEEDED IF THERE IS AN ON RAMP BETWEEN SIGNS.



WIDTH ON SIGN TO BE APPROX. 1 - FOOT LESS THAN AVAILABLE WIDTH

ADVANCED WIDTH RESTRICTION SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

FHWA

6

SDD 15C02 - 09f

6

SDD 15C02 - 09f

GENERAL NOTES

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

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

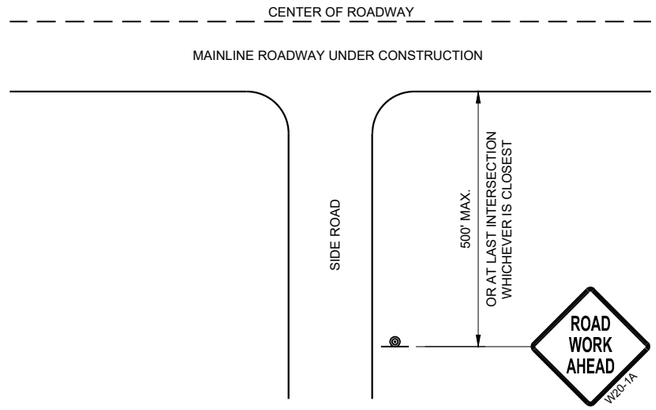
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

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

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

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS

** PLACE AN ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



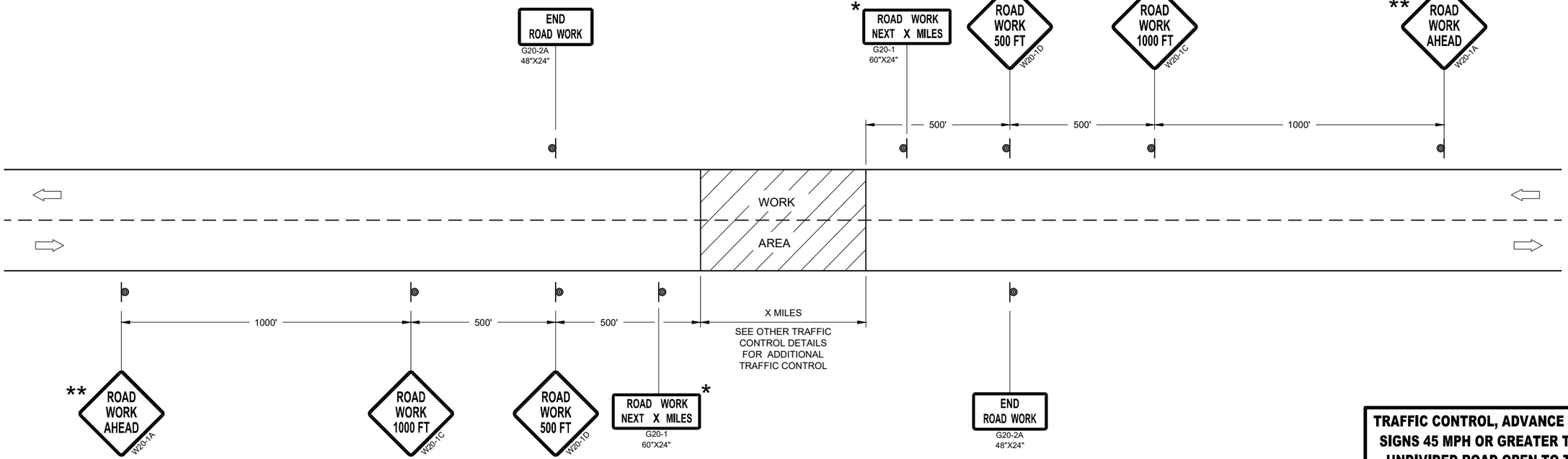
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45MPH OR GREATER

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15C04 - 05

6

SDD 15C04 - 05

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.

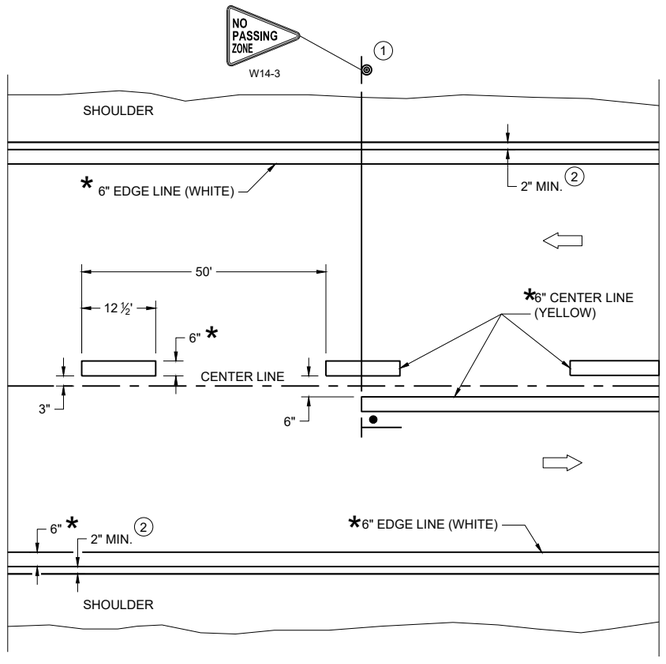
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

LEGEND

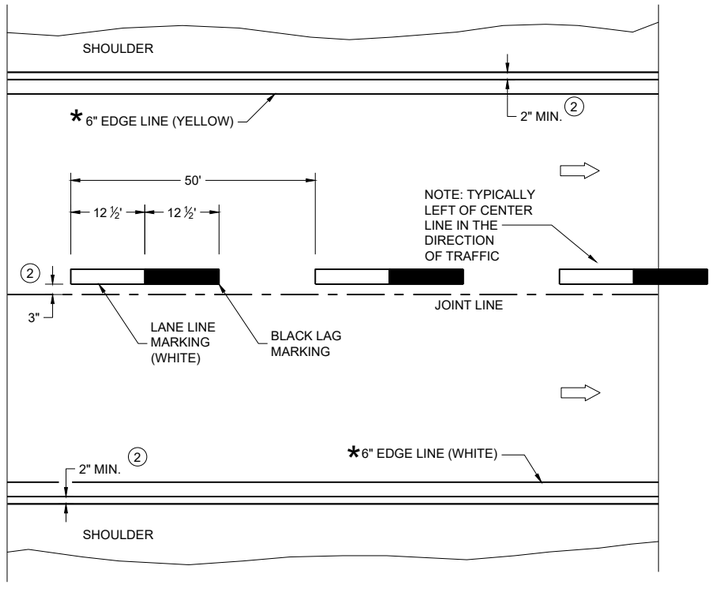
"T" MARKING

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

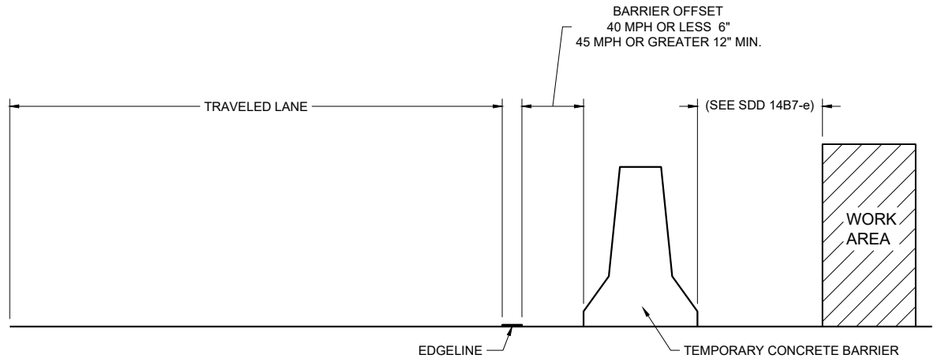
APPROVED
December 2024
DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

6

SDD 15C08-24a



TEMPORARY BARRIER OFFSET FROM EDGELINE

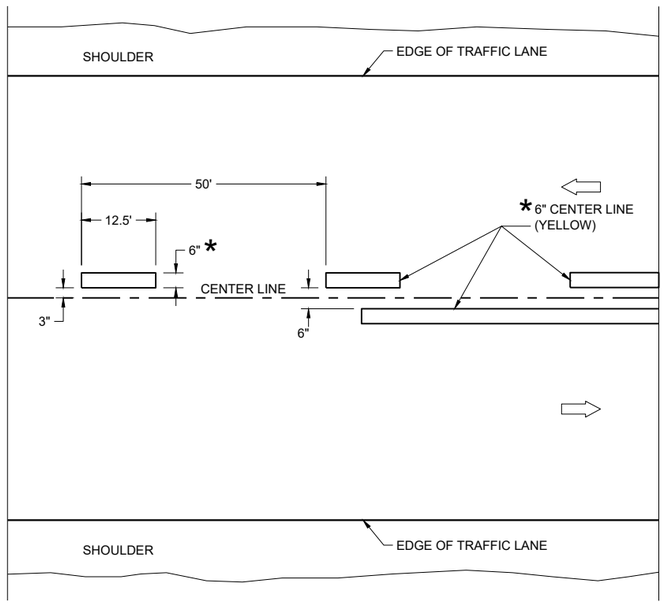
GENERAL NOTES

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

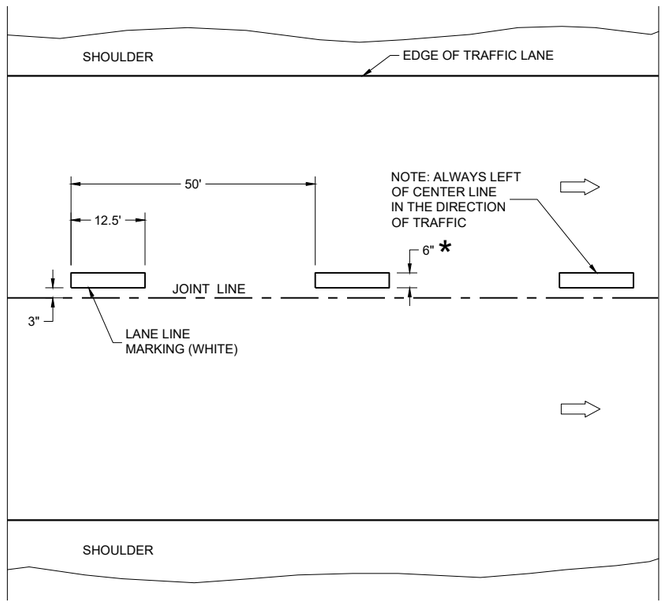
LEGEND

⇨ DIRECTION OF TRAFFIC

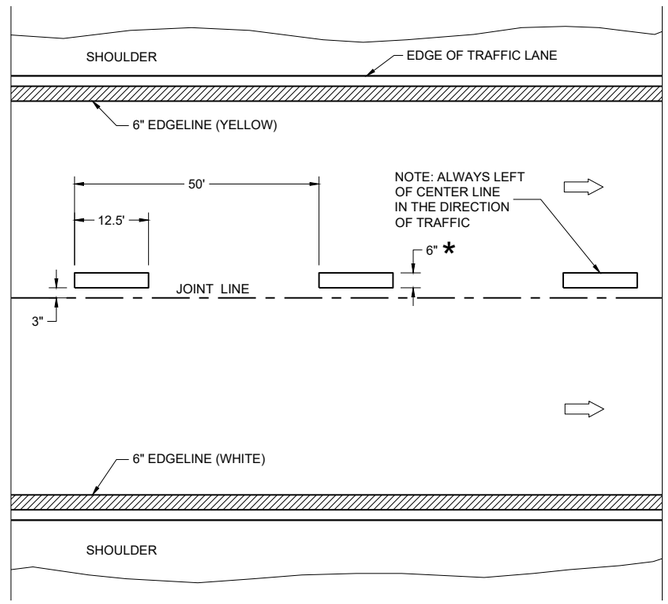
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



TWO WAY TRAFFIC



ONE WAY TRAFFIC



FREEWAYS AND EXPRESSWAYS

TEMPORARY PAVEMENT MARKING

TEMPORARY LONGITUDINAL PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2024
DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

6

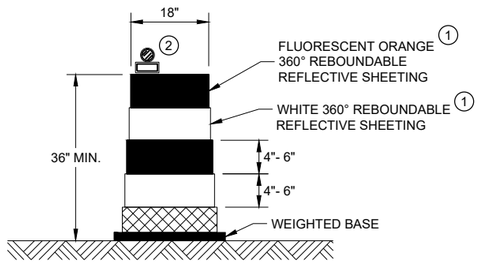
SDD 15C08-24b

6

SDD 15C08-24b

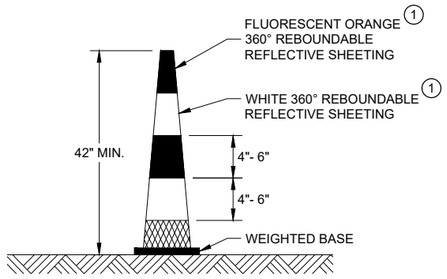
GENERAL NOTES

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

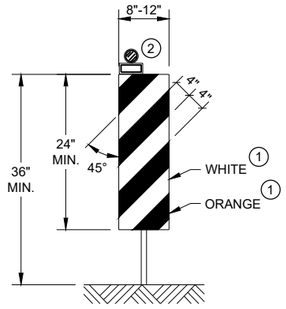
BALLAST WIDTHS
RANGE FROM 24"-36"



42" CONE

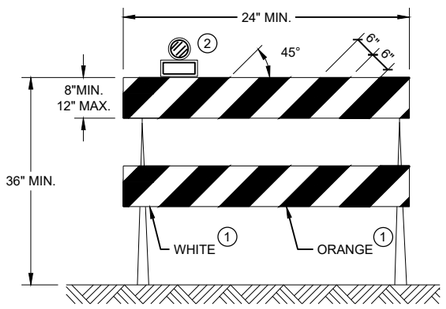
DO NOT USE IN TAPERS
½ SPACING OF DRUMS

BALLAST WIDTHS
RANGE FROM 14"-20"



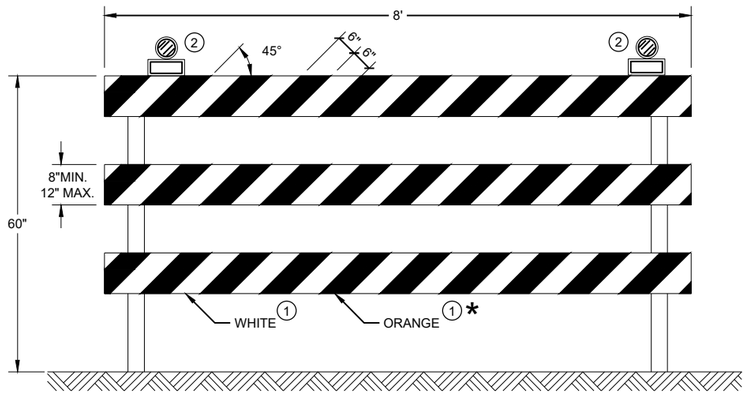
VERTICAL PANEL

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
November 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15C11 - 10b

6

SDD 15C11 - 10b

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

TEMPORARY PORTABLE RUMBLE STRIP ARRAY

DIRECTION OF TRAFFIC

WORK AREA

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

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

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGING

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

(1) FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

TEMPORARY PORTABLE RUMBLE STRIPS

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

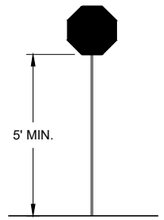
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM THE APPROVED PRODUCTS LIST.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.



STOP/SLOW PADDLE ON SUPPORT STAFF

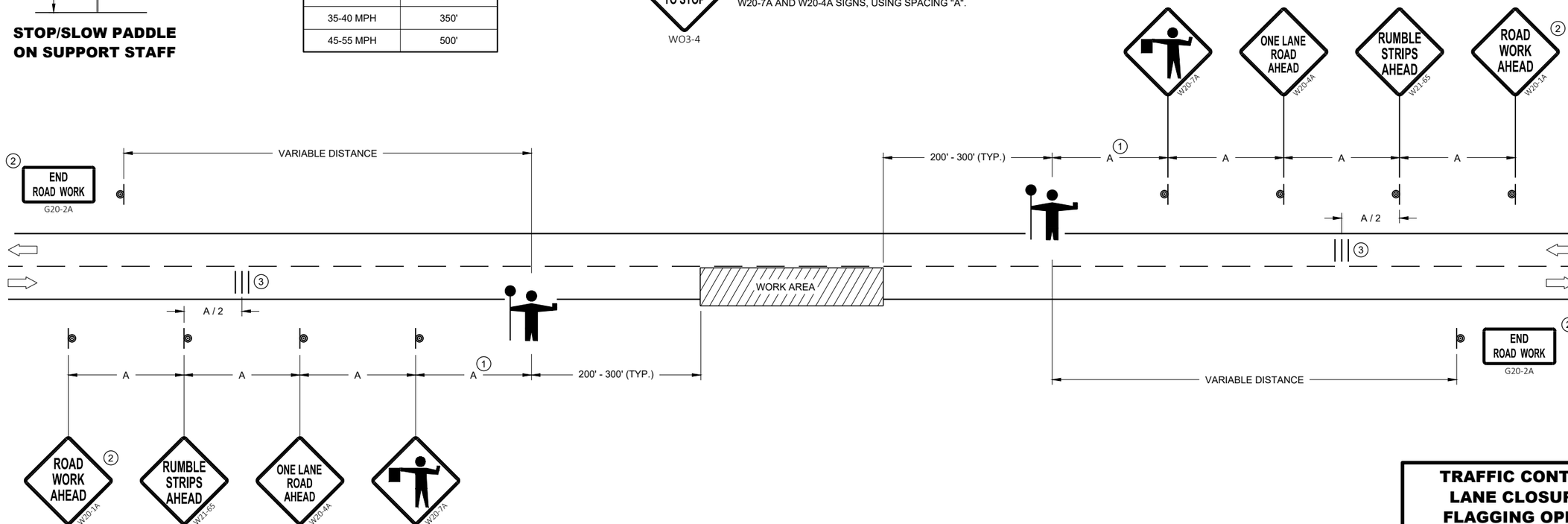
SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



WO3-4

USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

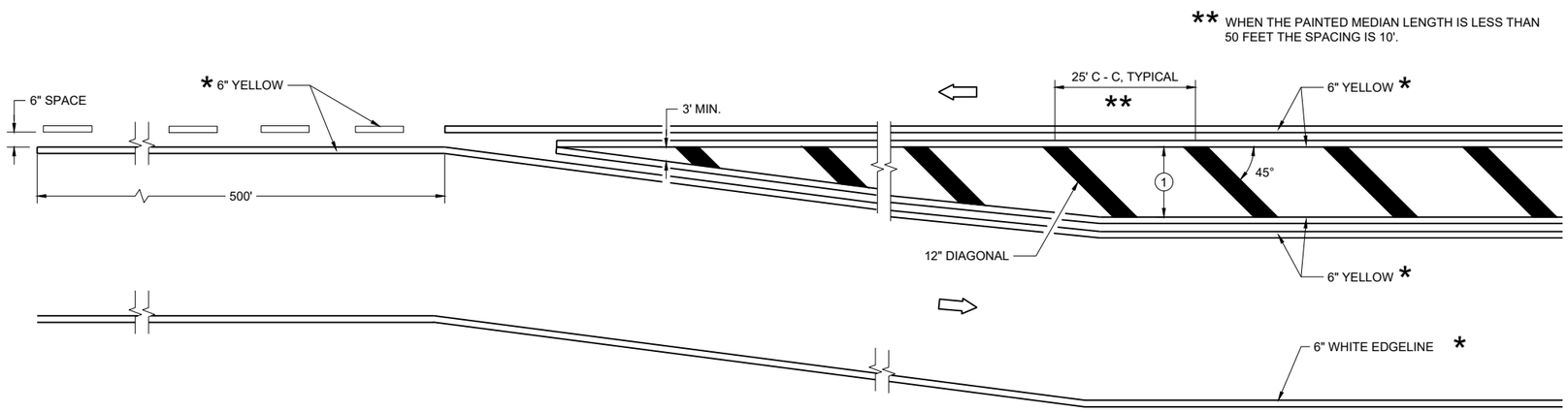
APPROVED
May 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

SDD 15C12 - 09a

SDD 15C12 - 09a



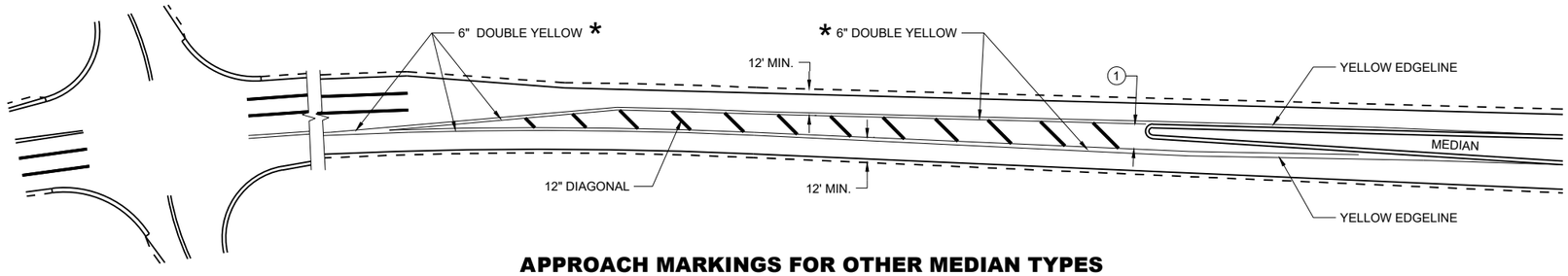
MEDIAN ISLAND DETAIL

GENERAL NOTES

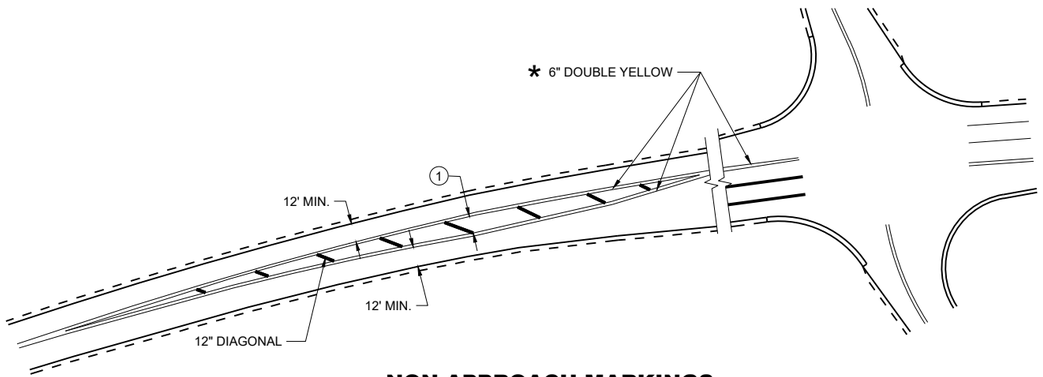
(1) DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT THE WIDEST POINT. OMIT DIAGONALS IF WIDTH IS LESS THAN 4 FEET.

DIRECTION OF TRAVEL

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON-APPROACH MARKINGS

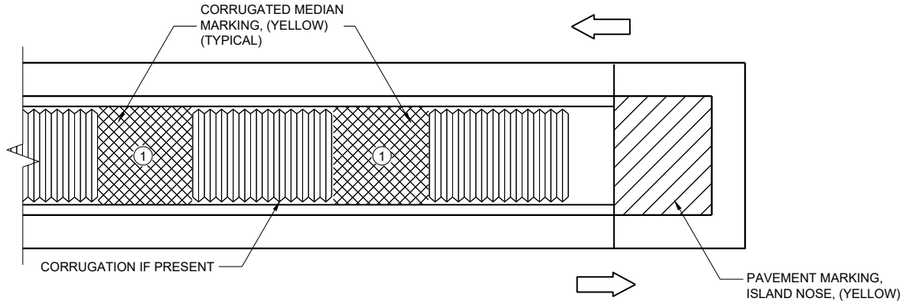
MEDIAN ISLAND PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

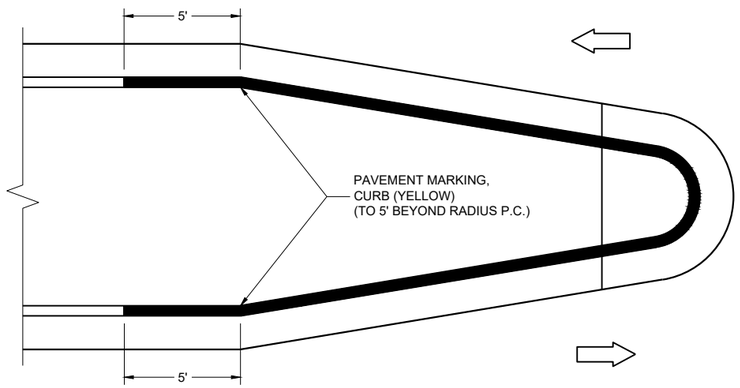
APPROVED
August 2024
DATE
/S/ Jeannie Silver
Statewide Pavement Marking Engineer
FHWA

6

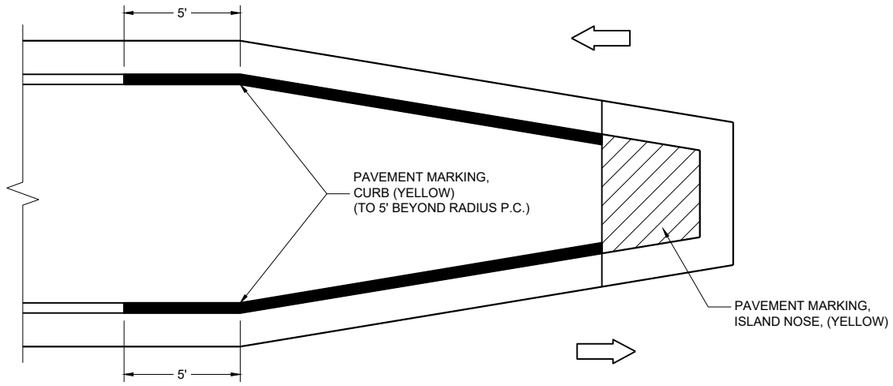
SDD 15C18-09a



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.

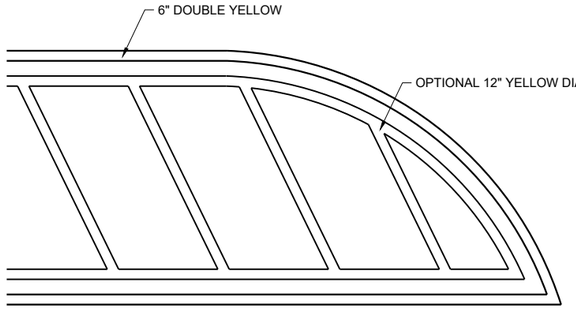
(1) APPLY PAVEMENT MARKING TO THE FLAT PORTION OF CORRUGATED MEDIAN.

ISLAND NOSE MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL



FLUSH MEDIAN ISLAND NOSE

**PAVEMENT MARKINGS,
MEDIAN ISLAND NOSE**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2024
DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

6

SDD 15C18-09b

REQUIREMENTS FOR EDGE LINES		
POSTED SPEED	IS THERE CONTINUOUS LIGHTING?	
	YES	NO
≤ 30 MPH	NO	OPTIONAL
35 OR 40 MPH	OPTIONAL	RECOMMENDED
≥ 45 MPH	RECOMMENDED	REQUIRED

GENERAL NOTES

APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

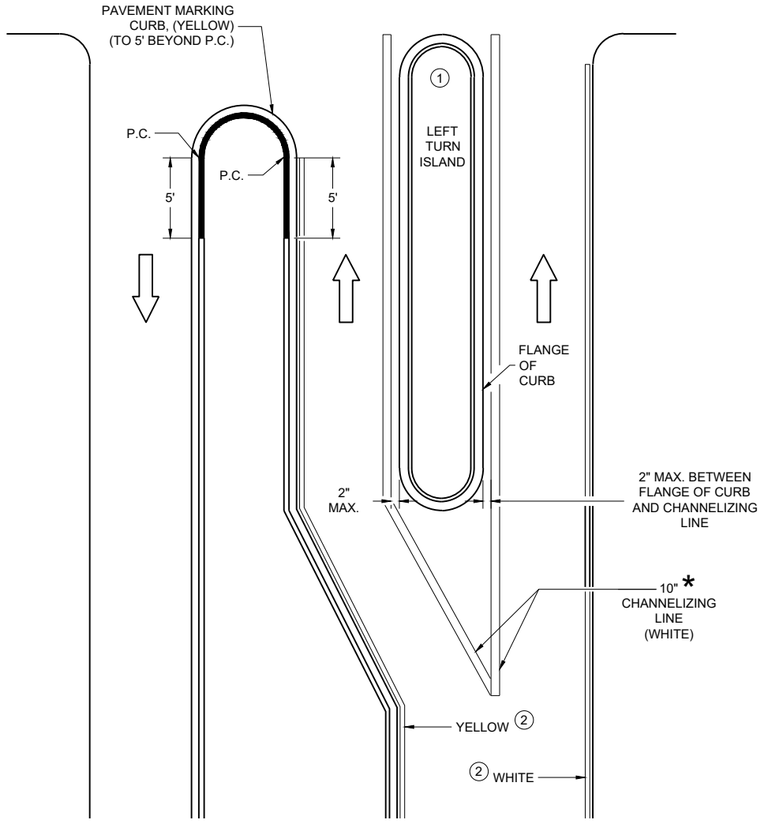
(1) MARK CURB NOSES YELLOW.

(2) MARK ACCORDING TO TABLE.

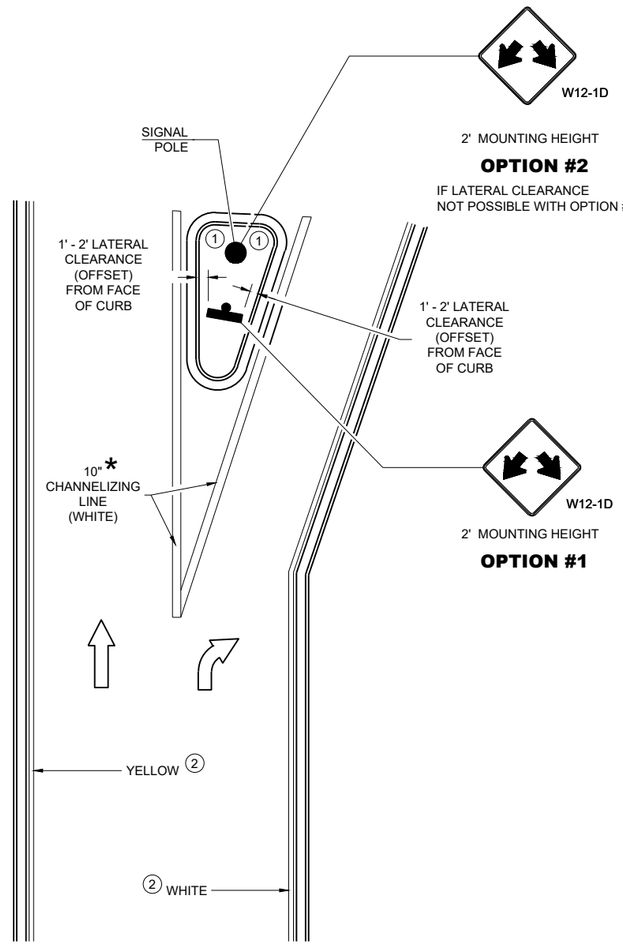
(3) CHEVRON MAY BE OMITTED IF LESS THAN 4" WIDE

DIRECTION OF TRAVEL

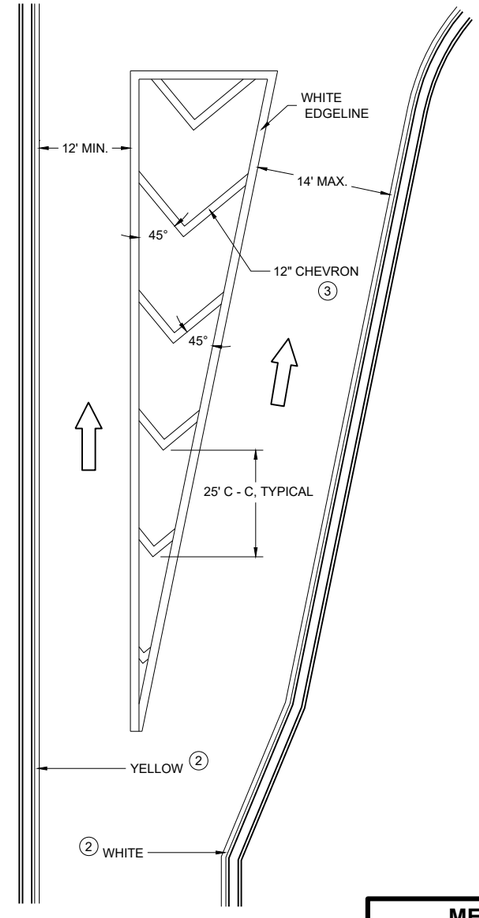
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



LEFT TURN & MEDIAN ISLAND



RIGHT TURN ISLAND



TURN LANE DETAIL

MEDIAN PAVEMENT MARKINGS, DOUBLE ARROW WARNING SIGN PLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2024
DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

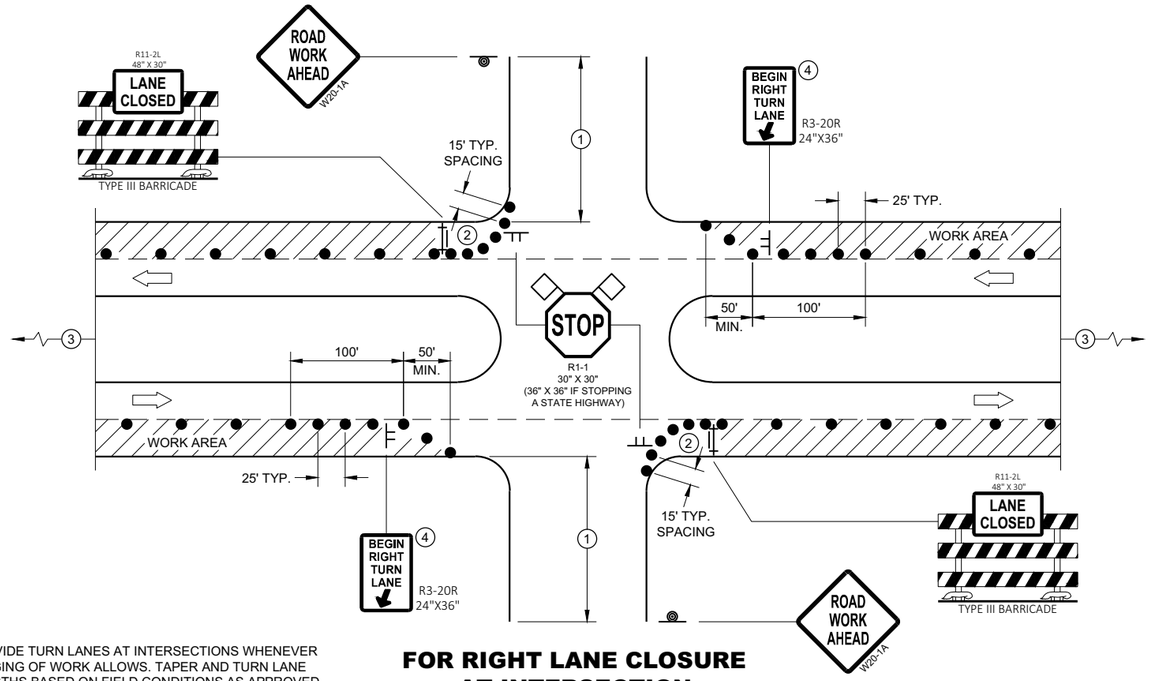
FHWA

6

SDD 15C18-09c

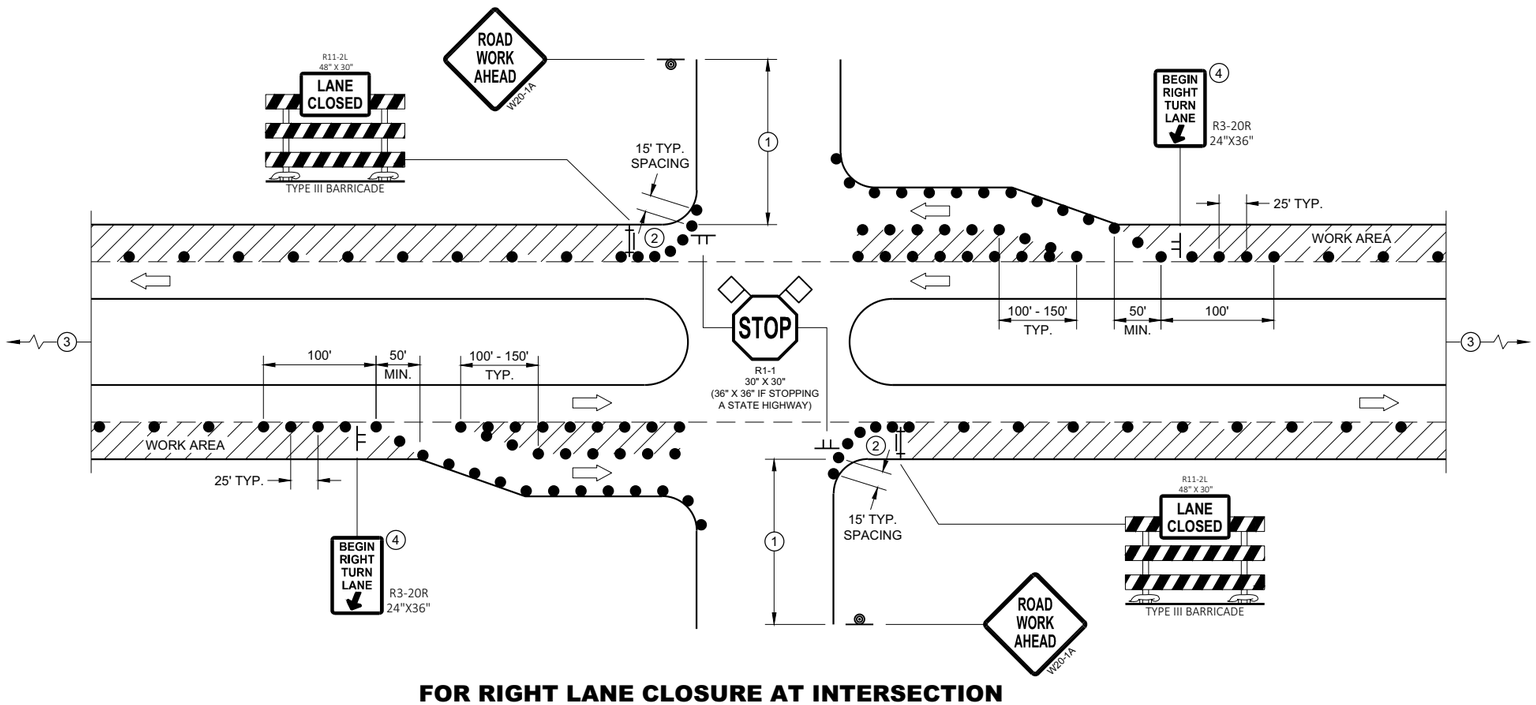
6

SDD 15C18-09c



FOR RIGHT LANE CLOSURE AT INTERSECTION

PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



FOR RIGHT LANE CLOSURE AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN 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.

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

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

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

BARRICADES IN A CLOSED LANE 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.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.

(2) ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

(4) MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION) TO BOTTOM OF SIGN.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE RIGHT LANE CLOSURE

6

SDD 15D21 - 07a

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- DIRECTION OF TRAFFIC
- WORK ZONE

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

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

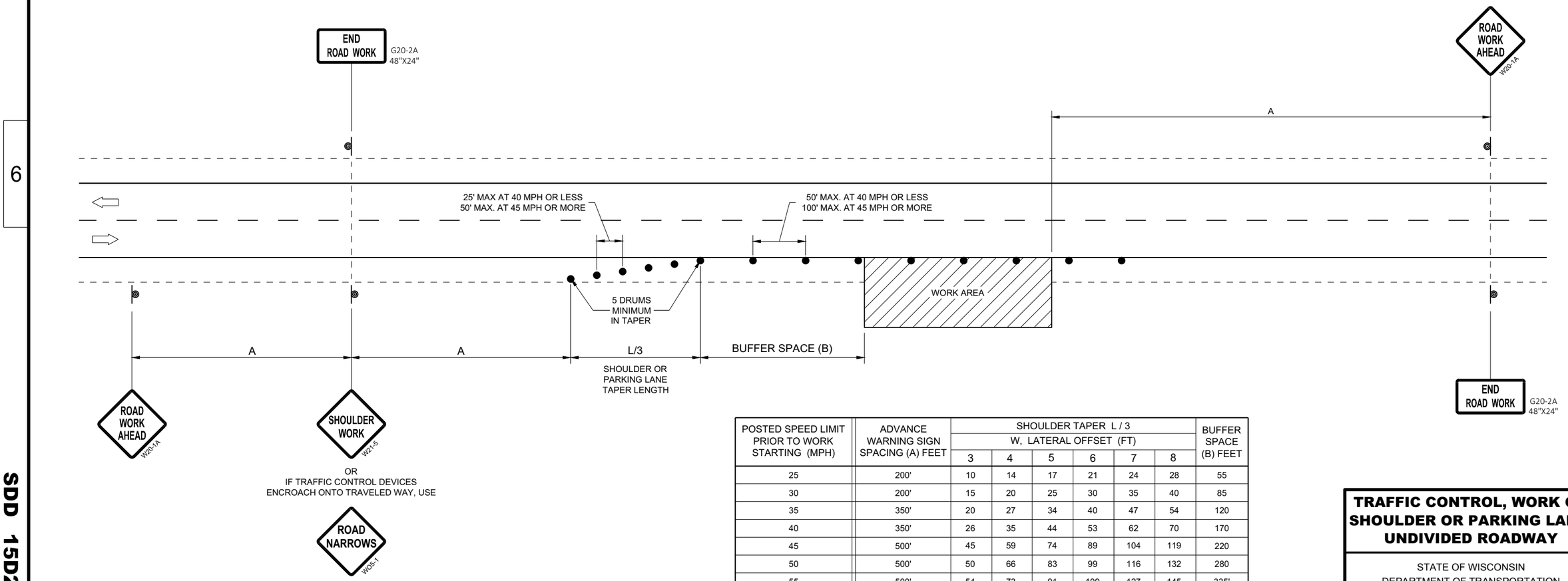
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHOULDER TAPER L / 3 W, LATERAL OFFSET (FT)						BUFFER SPACE (B) FEET
		3	4	5	6	7	8	
25	200'	10	14	17	21	24	28	55
30	200'	15	20	25	30	35	40	85
35	350'	20	27	34	40	47	54	120
40	350'	26	35	44	53	62	70	170
45	500'	45	59	74	89	104	119	220
50	500'	50	66	83	99	116	132	280
55	500'	54	73	91	109	127	145	335'

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020
DATE

/S/ Andrew Heidtke
STATEWIDE WORK ZONE T SAFETY ENGINEER

FHWA

SDD 15D28 - 04

SDD 15D28 - 04

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.

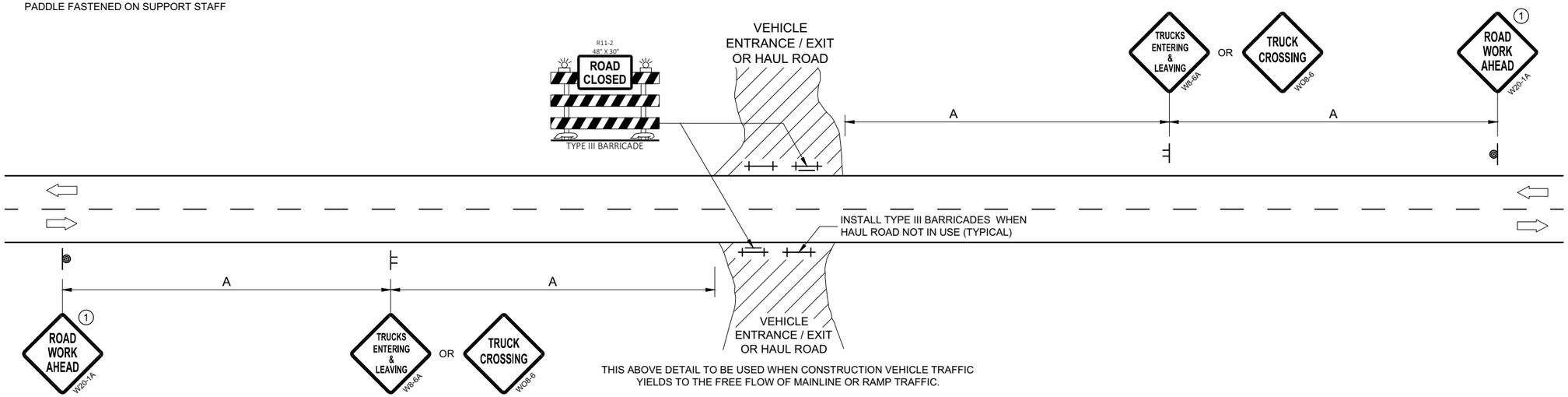
WARNING SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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.

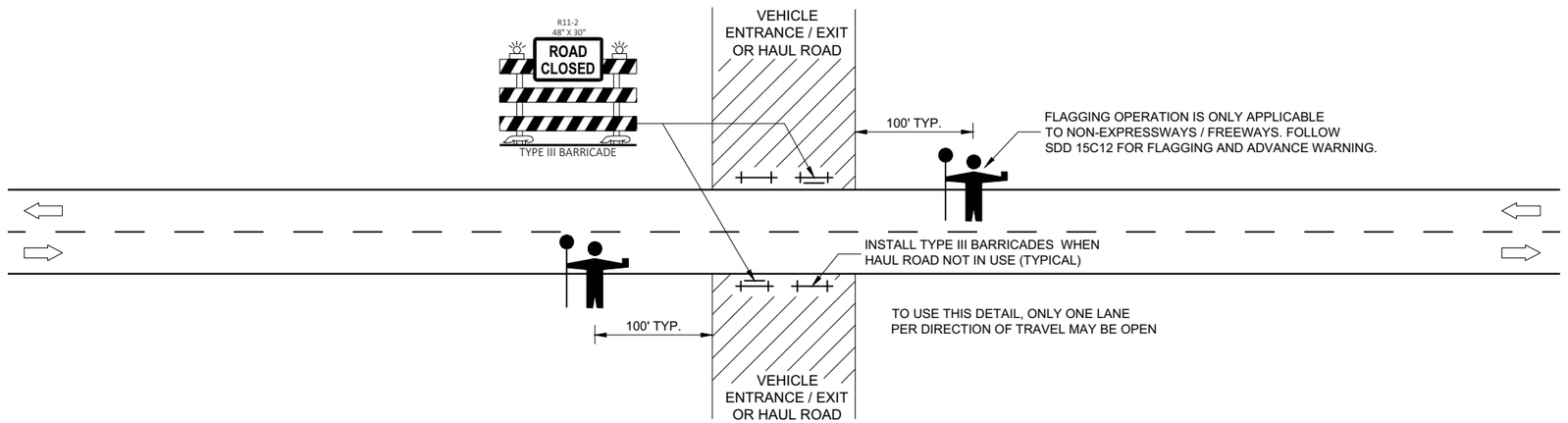
WHEN A SIDE ROAD OR RAMP INTERSECTS WITHIN THE ADVANCE SIGNING AREA, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND / OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

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

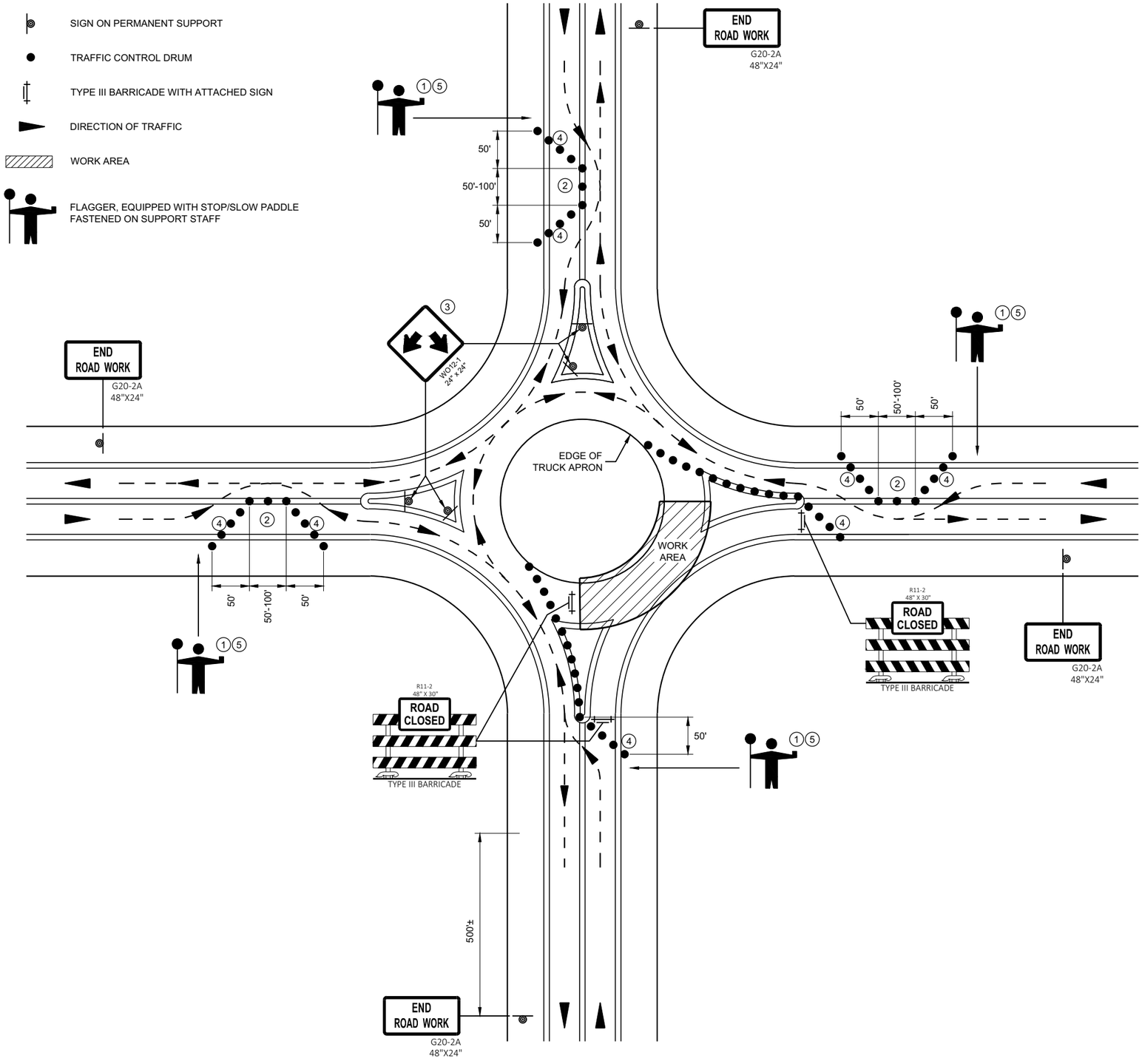
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6
SDD 15D29 - 06

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF



GENERAL NOTES

ALL SIGNS ARE 48"X48" BLACK ON ORANGE UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN 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.

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

ONLY ONE QUADRANT OF TRAFFIC SHALL BE RELEASED AT A TIME.

FLAGGERS SHALL CONTROL TRAFFIC ON ALL APPROACHES OF THE ONE-LANE ROUNDABOUT. ONE FLAGGER SHALL BE DESIGNATED LEAD FLAGGER.

NIGHT TIME WORK REQUIRES ADDITIONAL LIGHTING AT FLAGGER STATION(S).

1. FLAGGERS SHALL BE IN DIRECT RADIO CONTACT AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING IS NOT IN EFFECT, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.
2. ADJUST CHANNELIZING DEVICES TO ACCOMMODATE FOR TURNING RADIUS OF LARGE VEHICLES AS DIRECTED BY THE ENGINEER.
3. GUIDE SIGN WITH ROAD NAMES MAY BE USED IN LIEU OF THE DOUBLE ARROW (WO12-1) SIGN.
4. THE TWO- WAY TAPER SHOULD BE 50 FEET USING 5 EQUALLY SPACED DRUMS.
5. FOLLOW SDD 15C12 FOR FLAGGING AND ADVANCE WARNING.

RECOMMENDED REDUCED DRUM SPACING WITHIN ROUNDABOUT

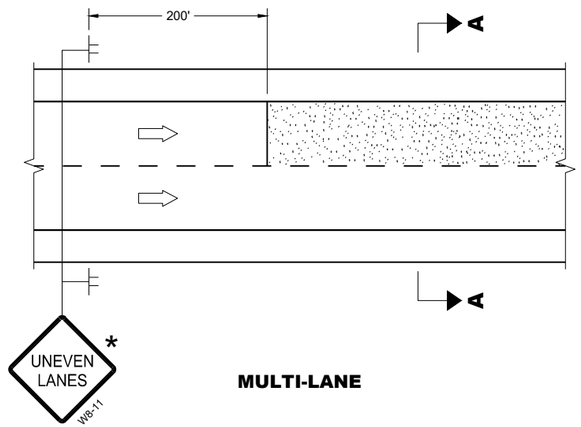
MPH	DRUM SPACING (FT)
0-40	25
45-55	50

TRAFFIC CONTROL, FLAGGING OPERATION, ROUNDABOUT

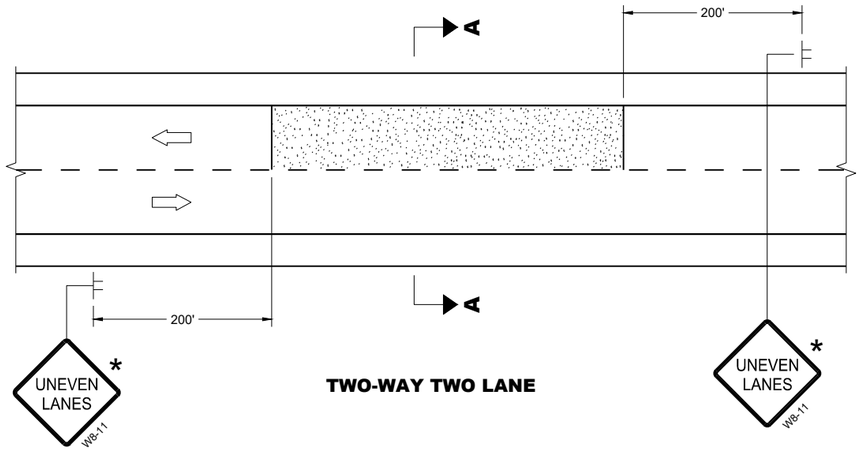
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020 — DATE
/S/ Andrew Heidtke — STATEWIDE WORK ZONE T SAFETY ENGINEER
FHWA

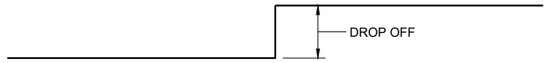
6
SDD 15D37 - 03



MULTI-LANE

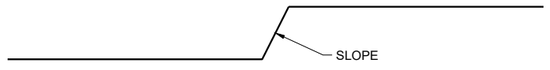


TWO-WAY TWO LANE

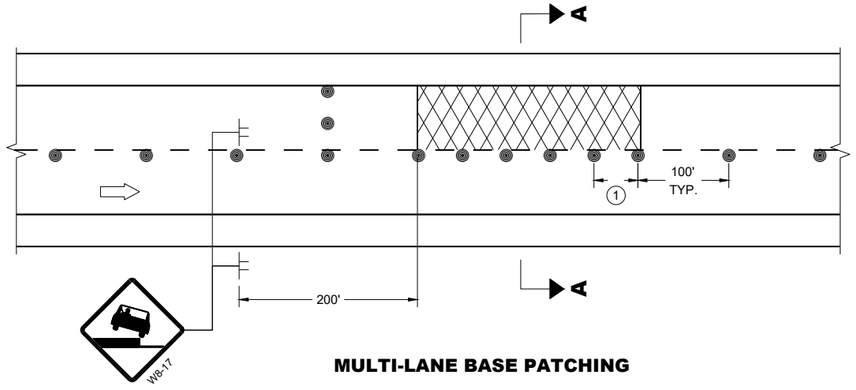


SECTION A - A

OR



SECTION A - A



MULTI-LANE BASE PATCHING

ADJACENT LANE DROP-OFFS

GENERAL NOTES

FOR SPOT LOCATIONS USE ENGINEERING JUDGEMENT WHEN PLACING ADDITIONAL SIGNS.

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

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

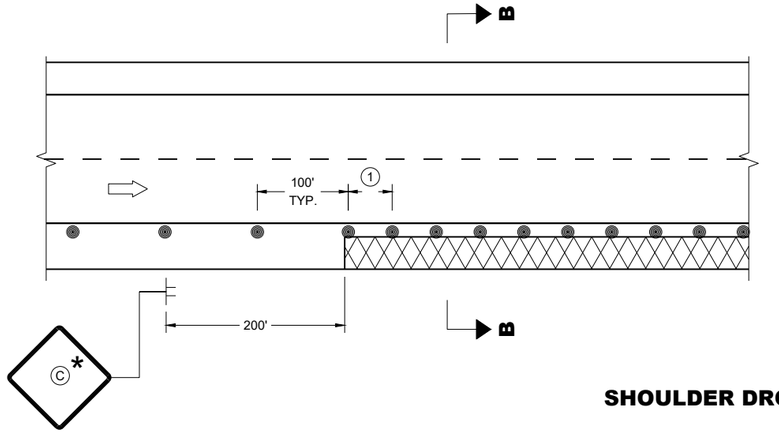
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

* IF THE DROP-OFF IS CONTINUOUS ALONG THE PROJECT, PLACE ADDITIONAL SIGNS EVERY 1 MILE AND AFTER EVERY ENTRANCE RAMP.

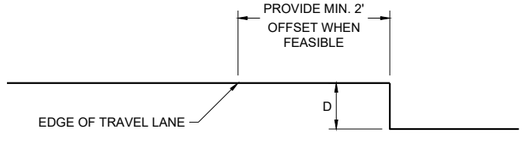
(1) USE CLOSER SPACING WHEN DELINEATING DROP-OFF.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA WITH DROP-OFF
- MILLED SURFACE



SHOULDER DROP-OFFS



SECTION B - B

D	SIGN (C)
< 2" WITH A SLOPE STEEPER THAN 3:1	LOW SHOULDER WO8-9
2" < 6" WITH A SLOPE STEEPER THAN 3:1	SHOULDER DROP - OFF W8-9A
	PROVIDE A 3:1 OR FLATTER SLOPE OF MATERIAL ADJACENT TO THE PAVEMENT

TRAFFIC CONTROL, DROP-OFF SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

6
SDD 15D39-03

GENERAL NOTES

DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

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

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

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

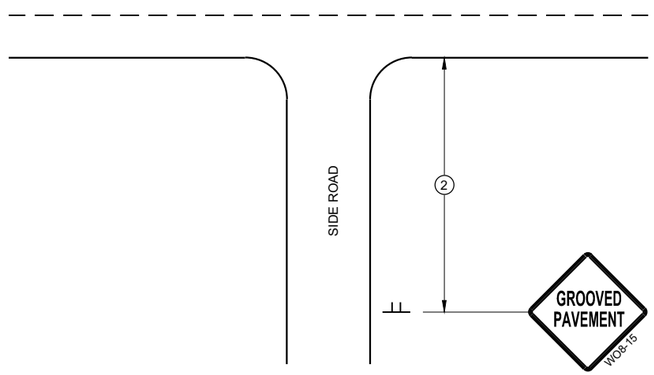
(1) PLACE SIGNS 350' IN ADVANCE OF MILLED SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.

(2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

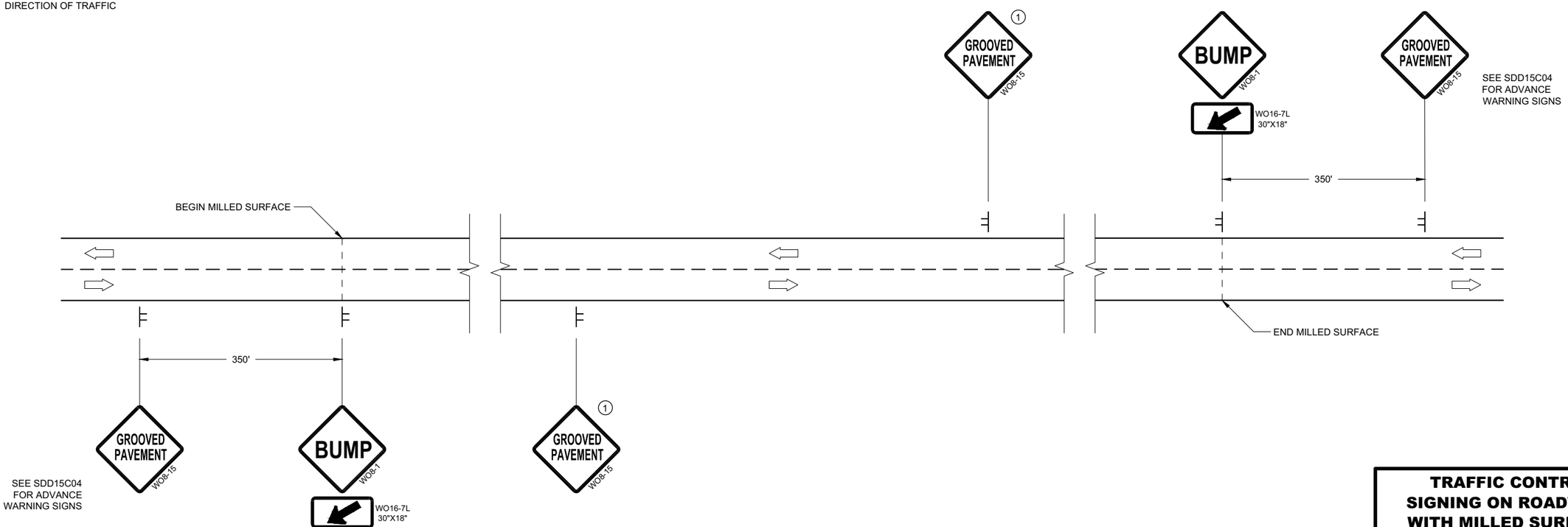
LEGEND

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH SIGN DETAIL



DETAIL FOR SIGNING ON MILLED SURFACES

TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

SDD 15D44 - 02

SDD 15D44 - 02

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- CONSTRUCTION TRAFFIC
- WORK AREA

TABLE 1

S (MPH)	INGRESS, L	EGRESS, L
50	435'	720'
55	480'	960'
60	530'	1200'
65	570'	1410'
70	615'	1620'

LEGEND

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

"WO" SIGN IS THE SAME AS "W" SIGN 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.

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

WORK ZONE INGRESS/EGRESS LOCATIONS SHALL BE APPROVED BY THE ENGINEER. LOCATIONS FOR WORK ZONE ACCESS TO/FROM THE FREEWAY SHALL NOT BE USED FOR INGRESS AND EGRESS AT THE SAME TIME.

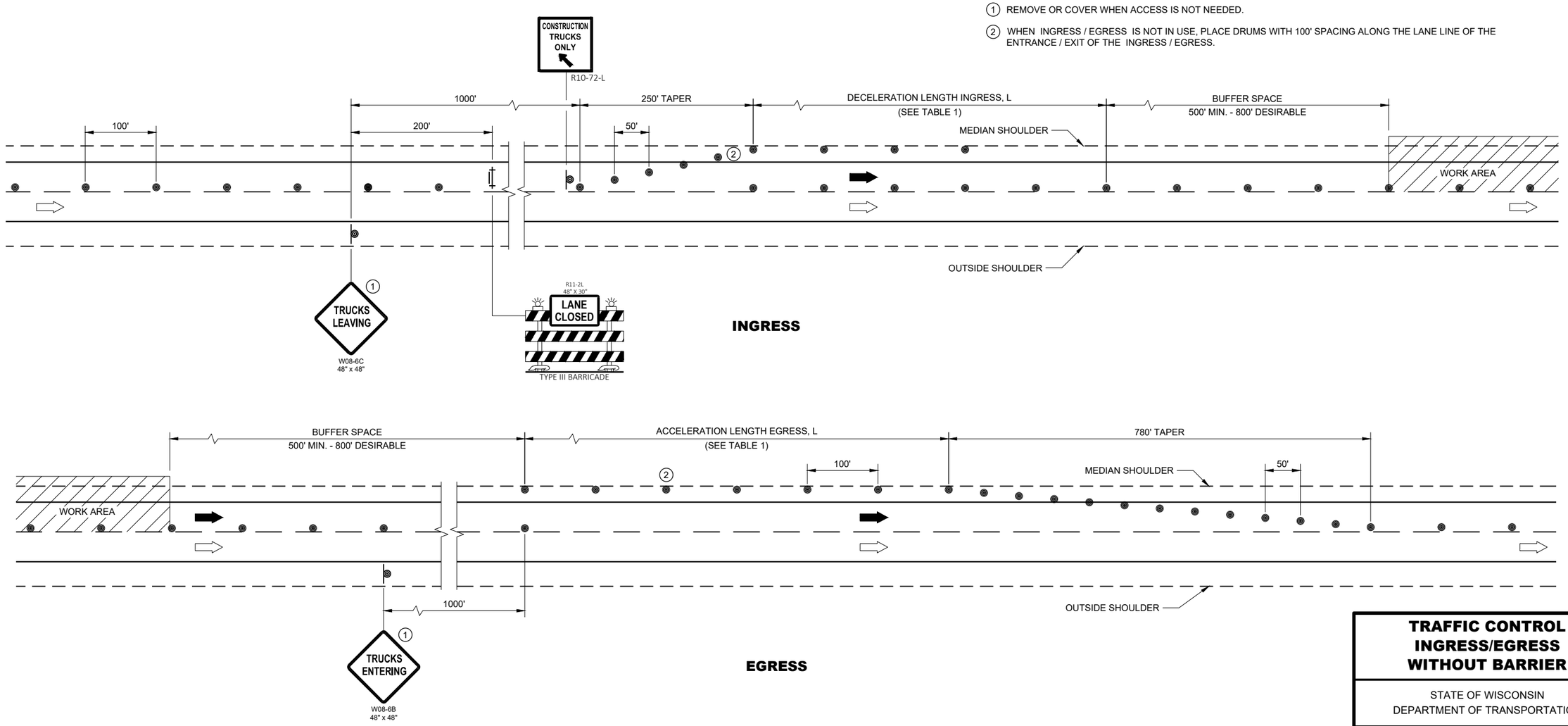
THIS ACCESS DETAIL IS TYPICAL FOR LEFT LANE ACCESS, FOR RIGHT LANE ACCESS, REVERSE THE TRAFFIC CONTROL

TEMPORARY SUPPORTS MAY BE USED IF PLACED BEHIND TEMPORARY BARRIER WALL

TRUCKS SHALL USE FLASHING YELLOW BEACON WHEN ENTERING AND EXITING LIVE TRAFFIC.

(1) REMOVE OR COVER WHEN ACCESS IS NOT NEEDED.

(2) WHEN INGRESS / EGRESS IS NOT IN USE, PLACE DRUMS WITH 100' SPACING ALONG THE LANE LINE OF THE ENTRANCE / EXIT OF THE INGRESS / EGRESS.



TRAFFIC CONTROL INGRESS/EGRESS WITHOUT BARRIER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

FHWA

6

SDD 15D47-03b

6

SDD 15D47-03b

LEGEND

V1 WORK VEHICLE

V2 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

FLASHING ARROW PANEL (CAUTION)

WORK AREA

DIRECTION OF TRAFFIC

POSTED SPEED PRIOR TO WORK STARTING (MPH)	DECISION SIGHT DISTANCE (D)
0 - 25	550'
30	550'
35	700'
40	700'
45	900'
50	900'
55	1200'

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

MOBILE IS WORK THAT MOVES CONTINUOUSLY OR MOVES AT LEAST THE DECISION SIGHT DISTANCE EVERY 15 MINUTES.

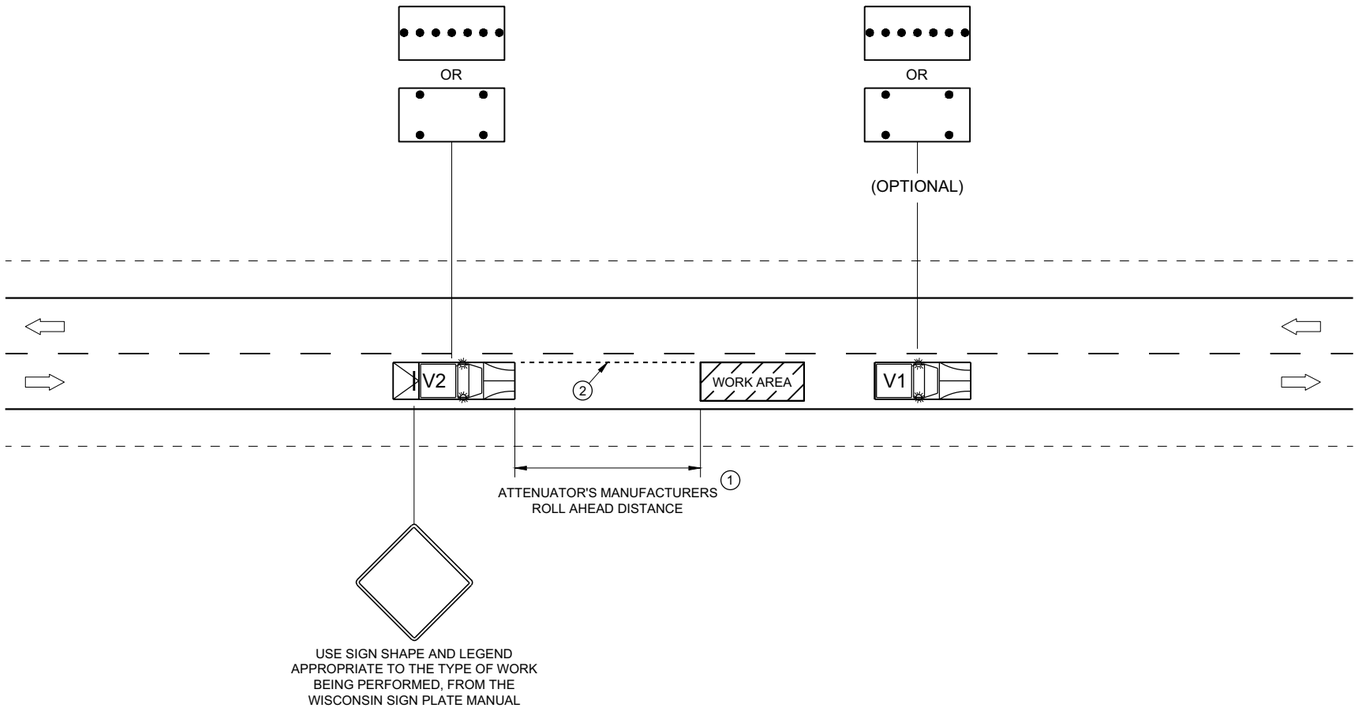
ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL ARROW PANELS SHALL BE REAR FACING, TYPE "B" OR "C", AND DISPLAYING THE FLASHING CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

(1) DISTANCE BETWEEN VEHICLES MAY INCREASE FROM THE ATTENUATOR'S ROLL AHEAD BASED ON TERRAIN, SIGHT DISTANCE, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

(2) ALIGN LEFT SIDE OF SHADOW VEHICLE WITH EDGE OF WORK AREA.



TRAFFIC CONTROL, MOBILE OPERATIONS ON AN UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021 — DATE
/S/ Andrew Heidtke — STATEWIDE WORK ZONE T SAFETY ENGINEER
FHWA

6

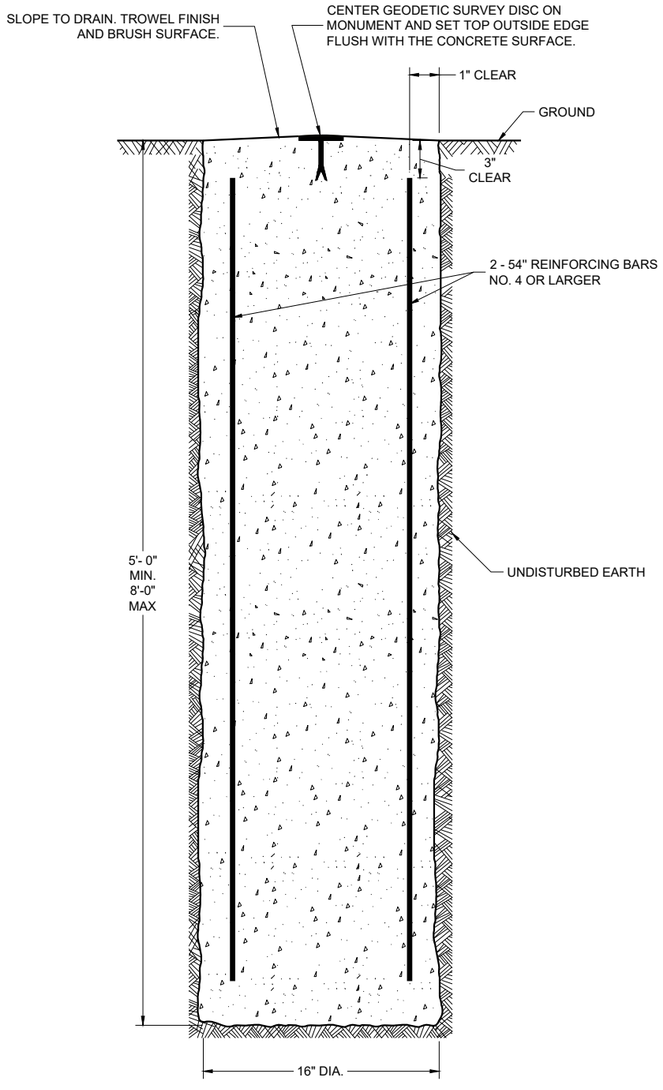
SDD 15D51 - 01

GENERAL NOTES

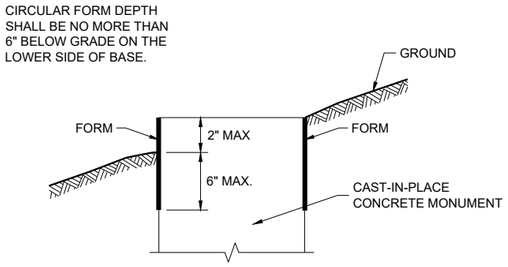
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SURVEY MONUMENT SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

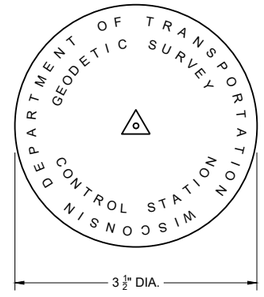
IF A SURVEY MONUMENT REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.



CAST-IN-PLACE CONCRETE MONUMENT



FORMING DETAIL



GEODETIC SURVEY DISC
FURNISHED BY WISDOT

GEODETIC SURVEY MONUMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

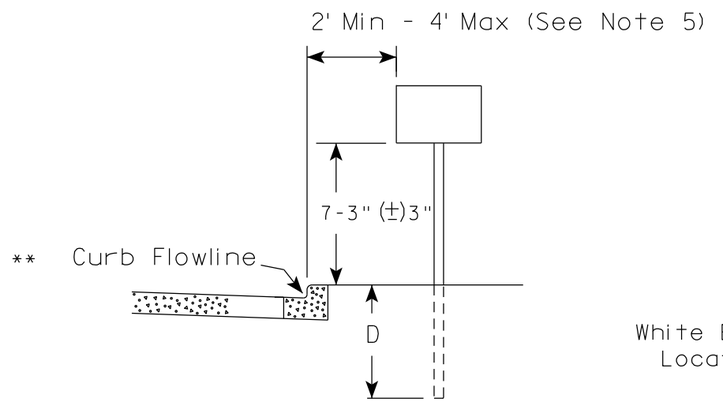
June 2025 — DATE

/S/ DAVID J. LAYTON — CHIEF SURVEY AND MAPPING ENGINEER

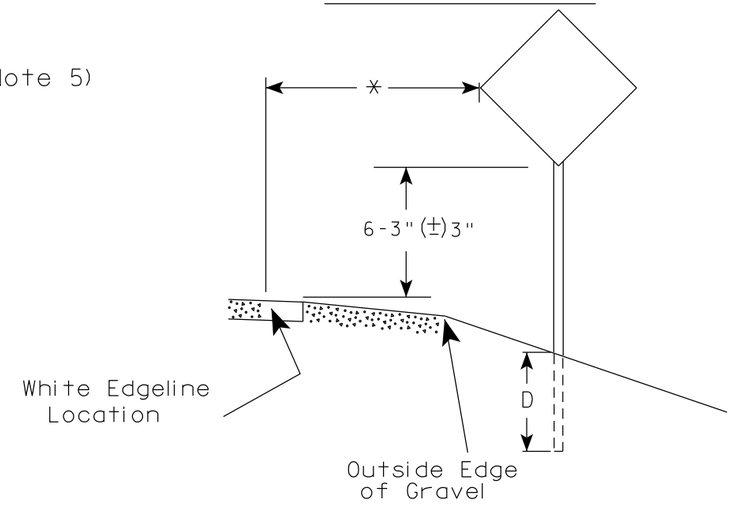
FHWA

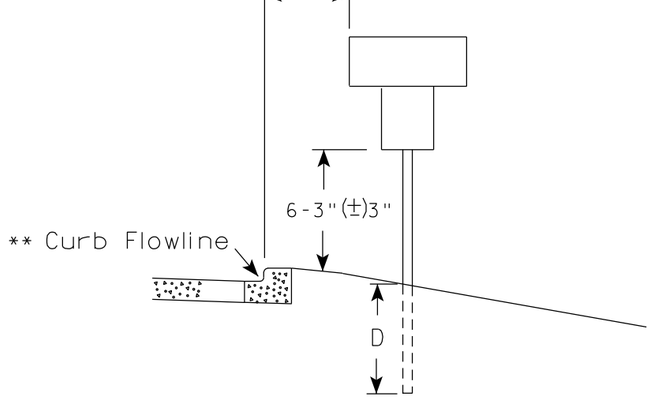
6
SDD 16A02-01

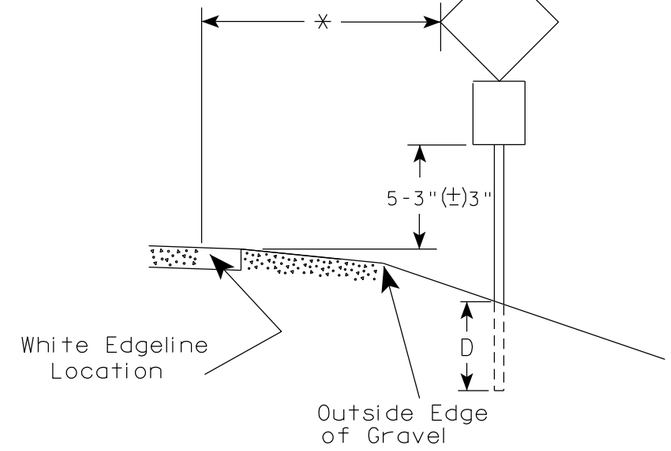
URBAN AREA



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" (±) 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".
3. For expressways and freeways, mounting height is 7'- 3" (±) 3" or 6'-3" (±) 3" depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±) 3".
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directd by the Engineer.

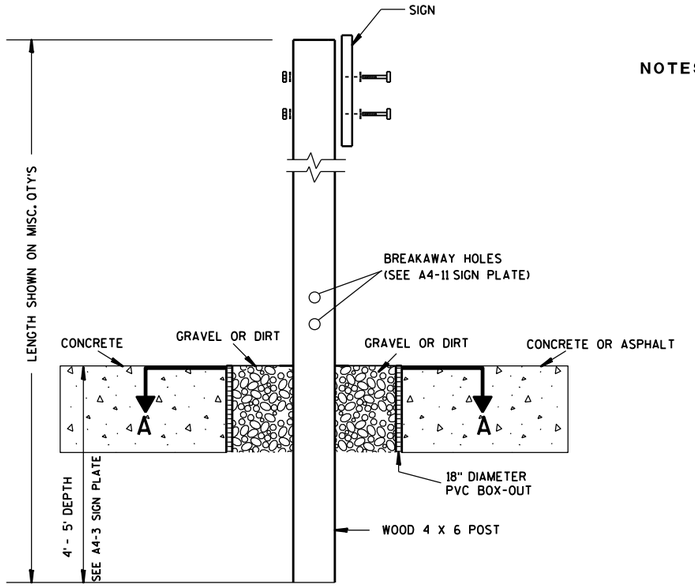
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-3.23

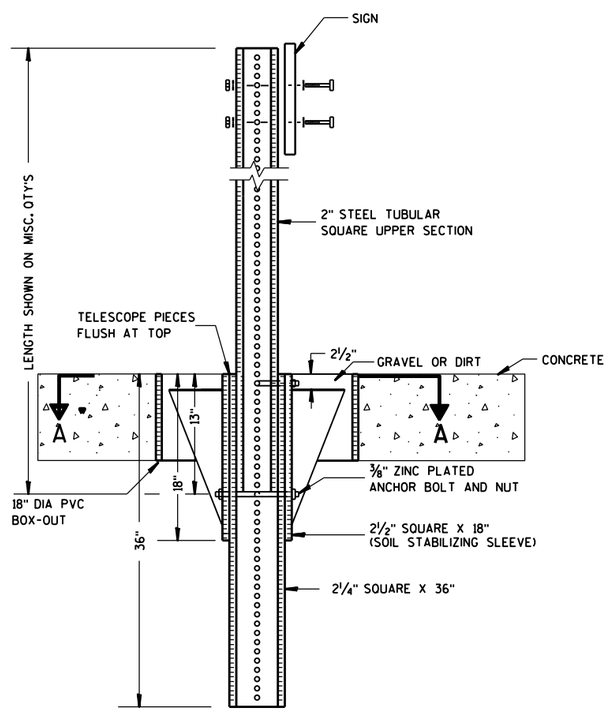
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 148	E



ELEVATION VIEW

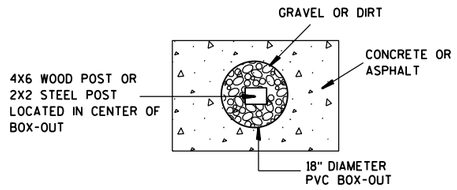
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

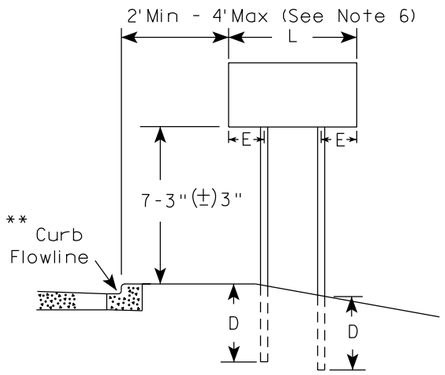
APPROVED Matthew R Rauch
for State Traffic Engineer

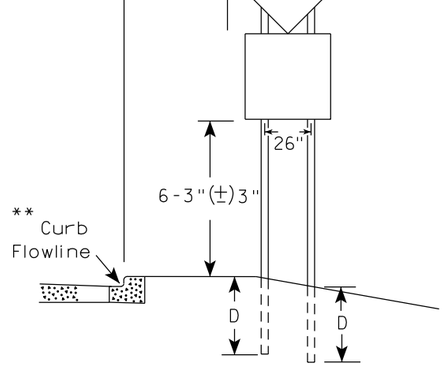
DATE 1/27/14 PLATE NO. A4-3B.1

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

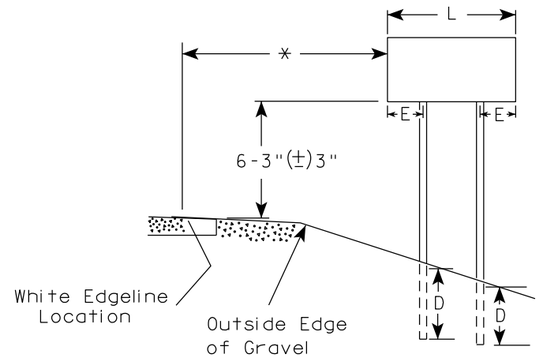
URBAN AREA

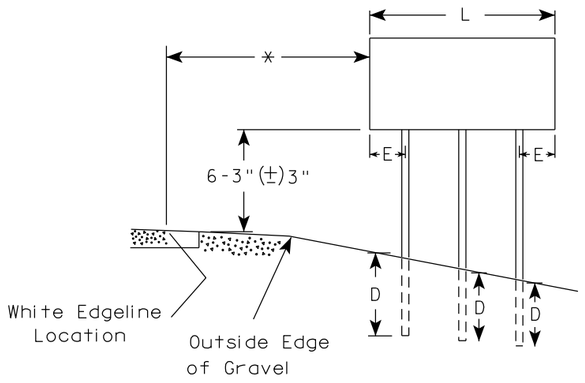


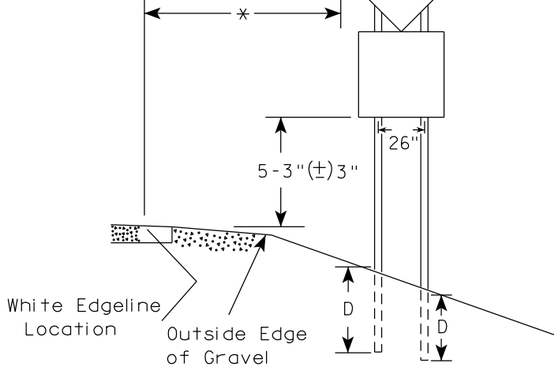


48" DIAMOND WARNING SIGN

RURAL AREA (See Note 3)







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" (±) 3" or 6'-3" (±) 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" (±) 3" or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±) 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" (±) 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'

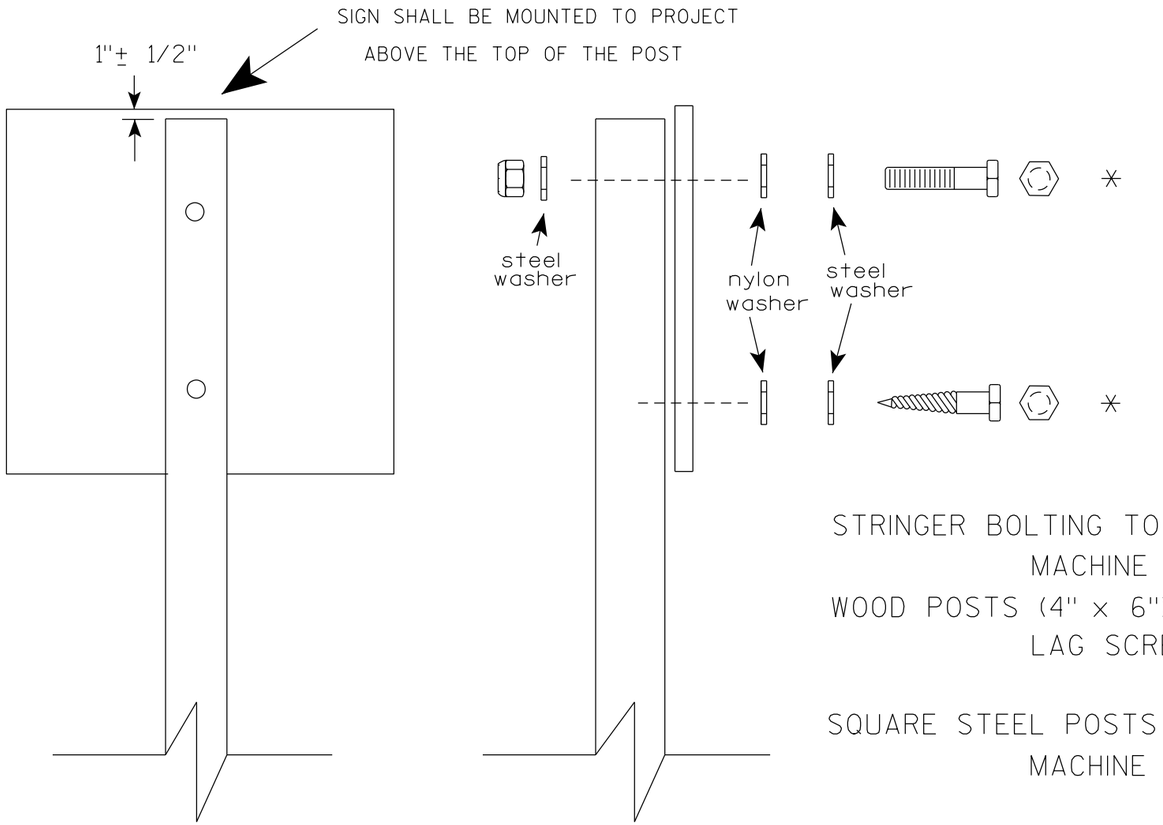
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-4.16

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 150	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

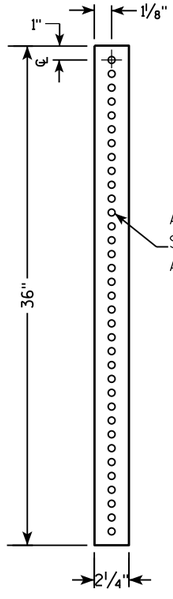
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

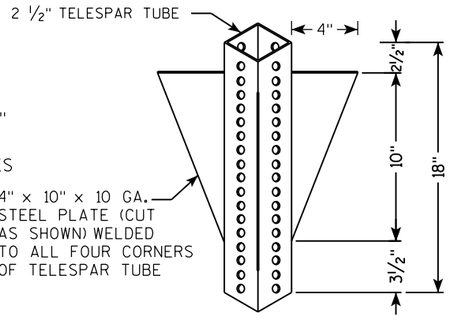
DATE 4/1/2020 PLATE NO. A4-8.9

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

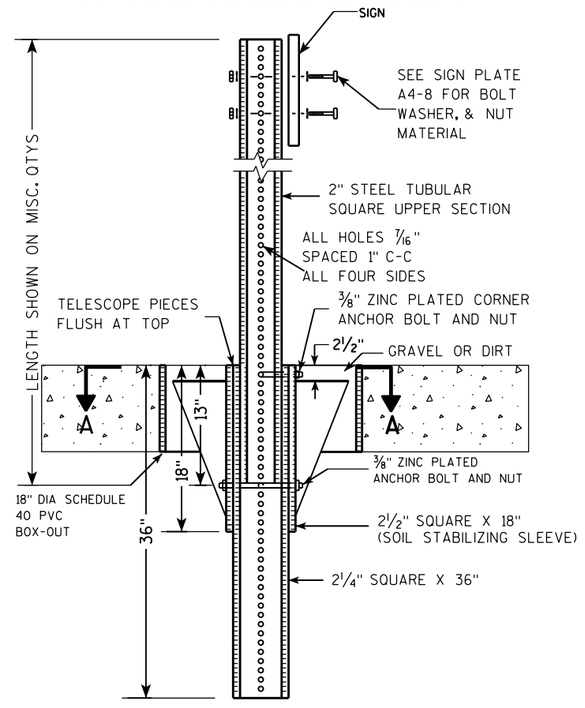
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



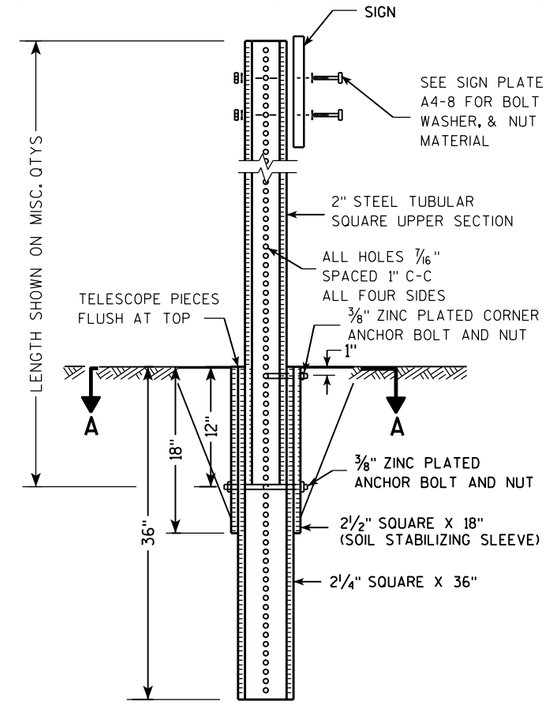
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

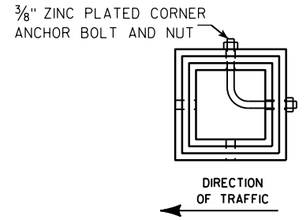


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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

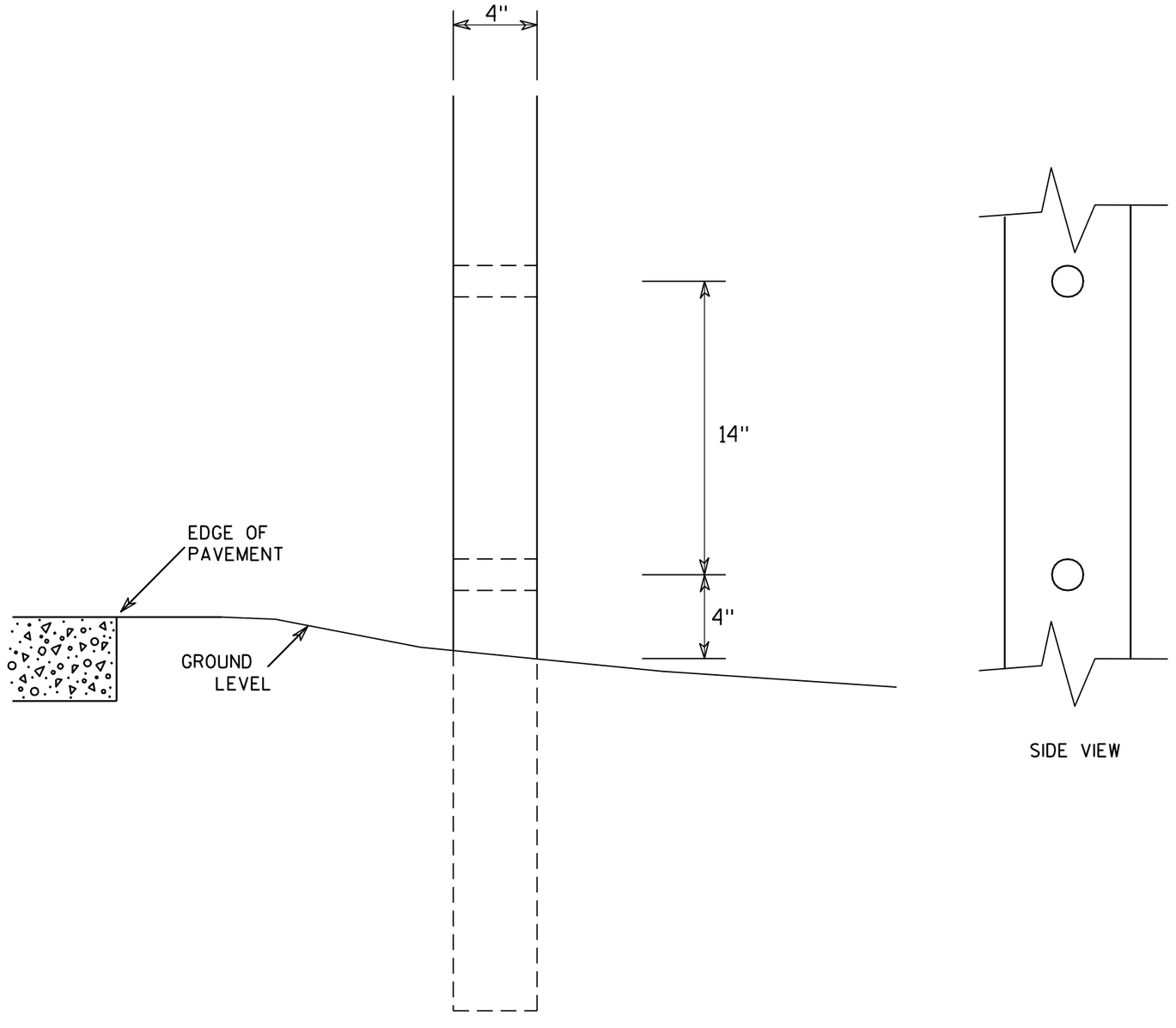
WISCONSIN DEPT OF TRANSPORTATION

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.

7

7

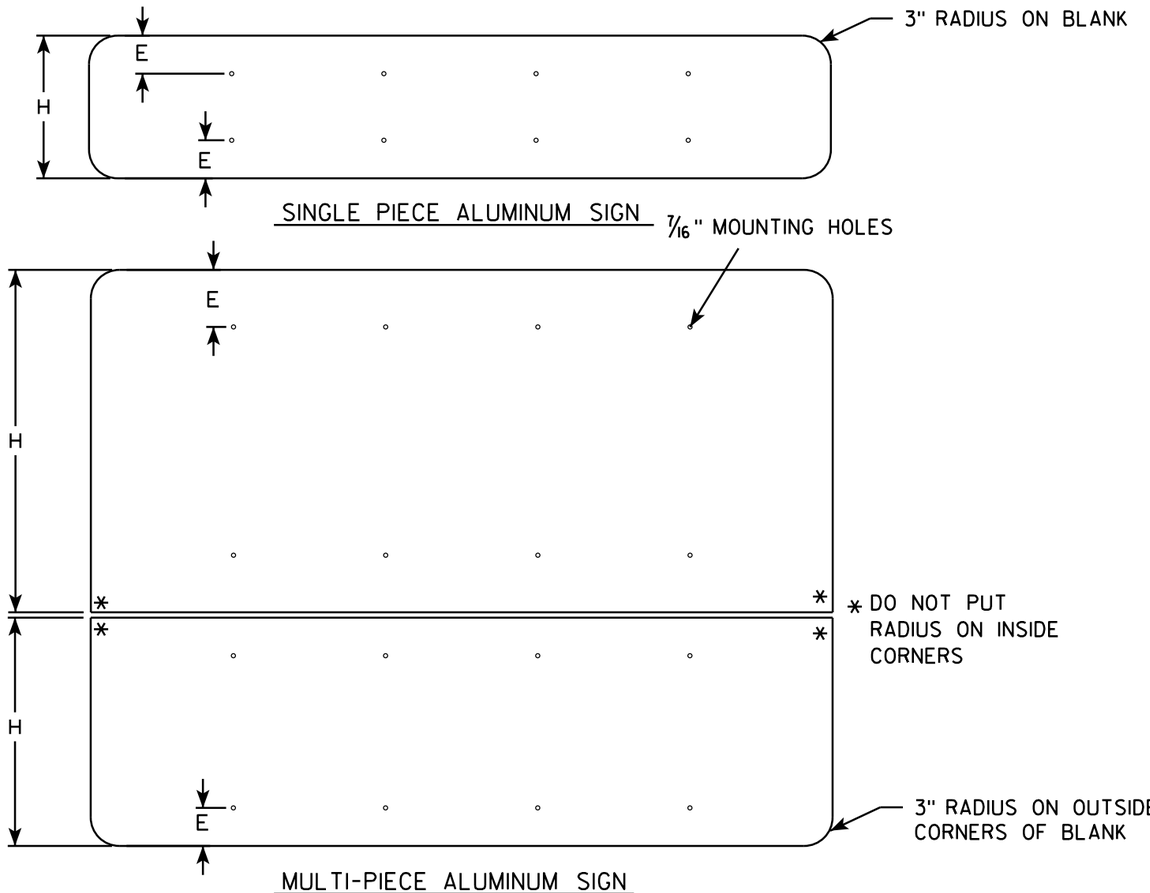
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang
for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

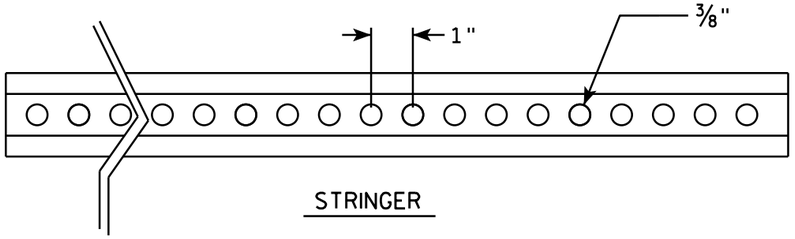
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 153	E



GENERAL NOTES

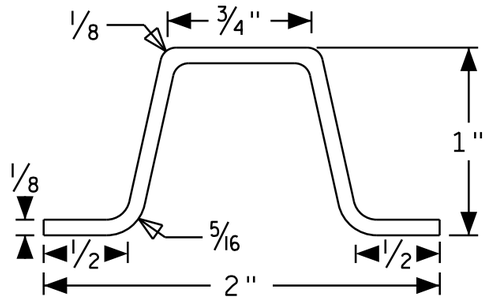
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 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"

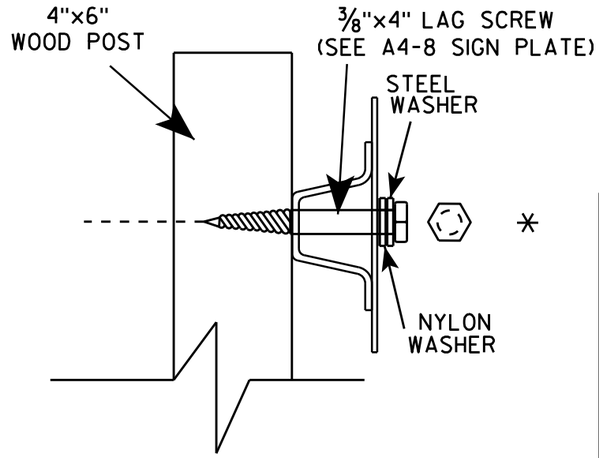


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

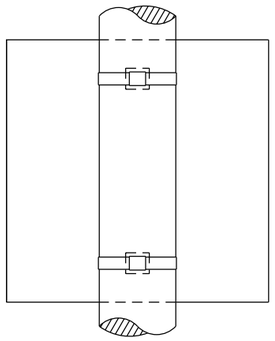
DATE 4/26/16 PLATE NO A4-18.1

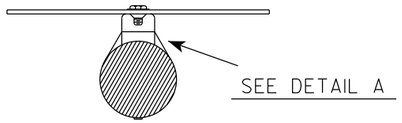
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

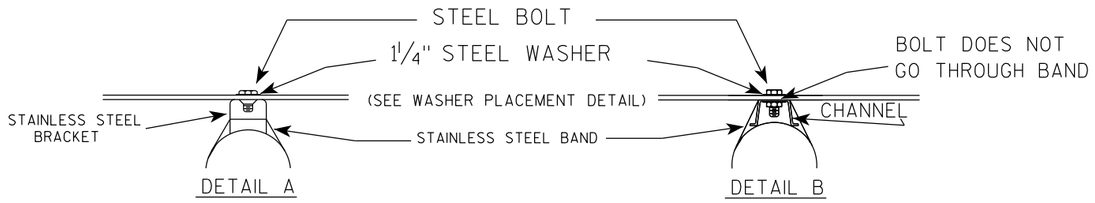
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A418.dgn PLOT DATE : 27-APR-2016 13:56 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 41.805205:1.000000 WISDOT/CADDS SHEET 42

BANDING

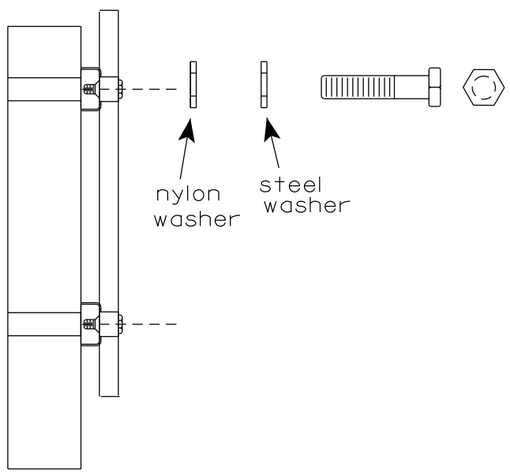
SINGLE SIGN







WASHER PLACEMENT

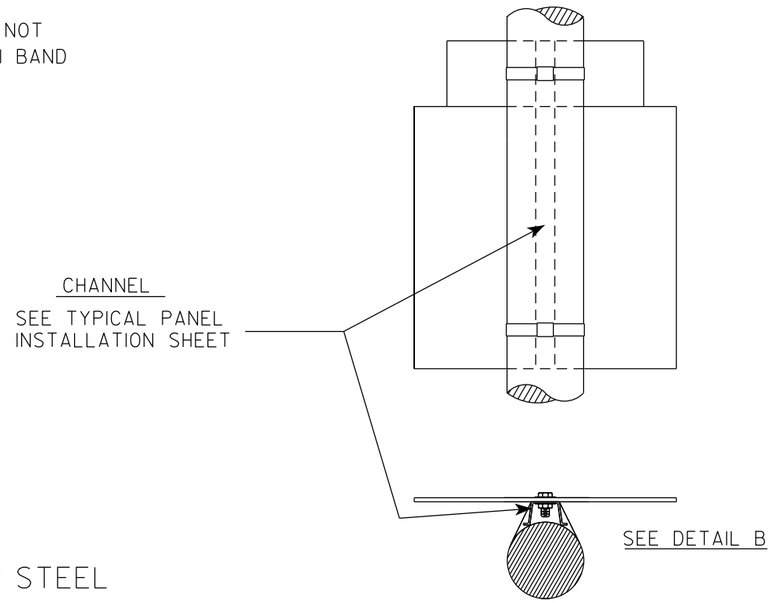


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

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



STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

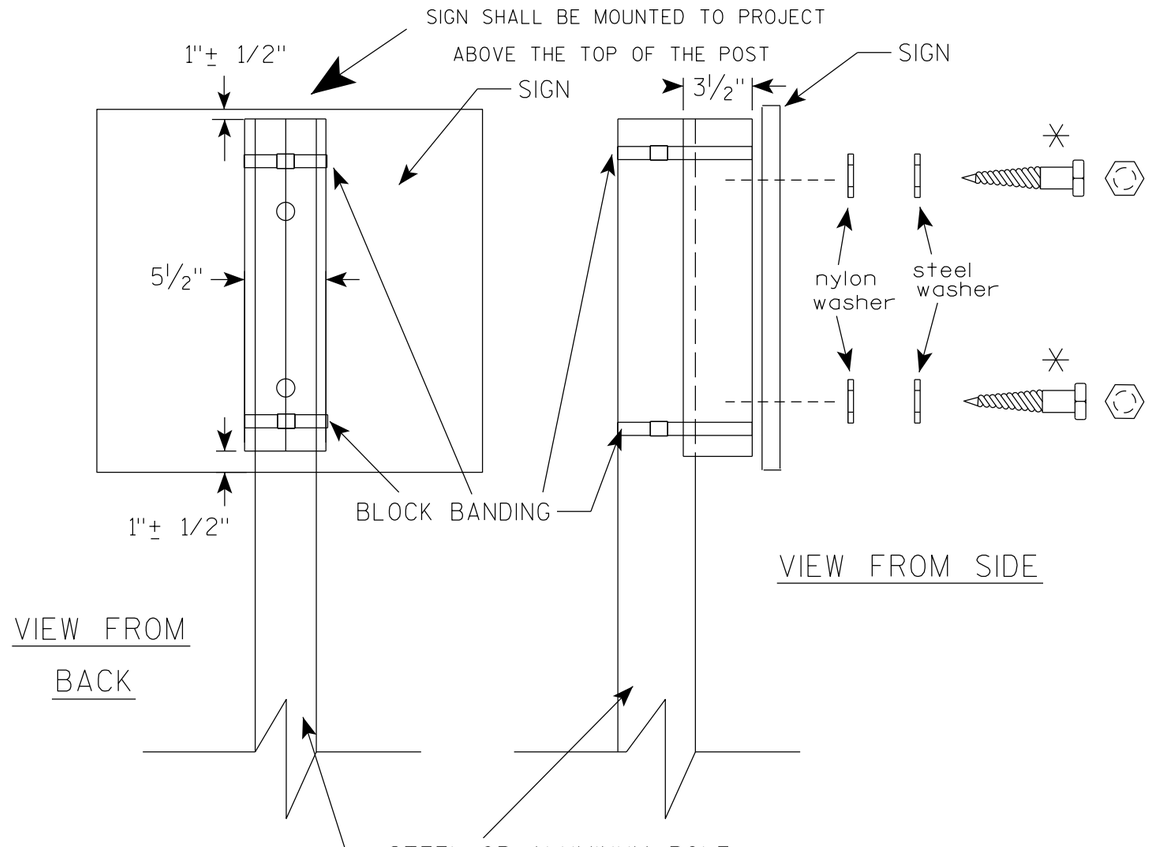
DATE 6/10/19 PLATE NO. A5-9.4

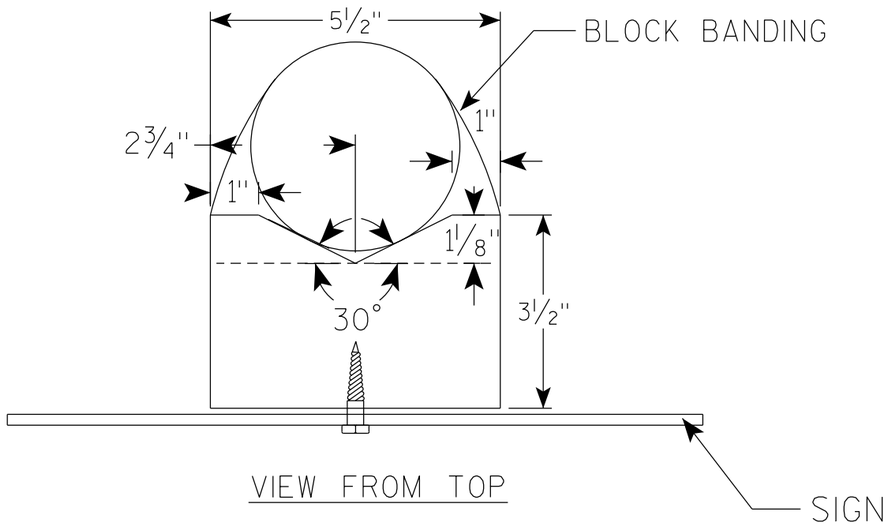
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 155	E

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)

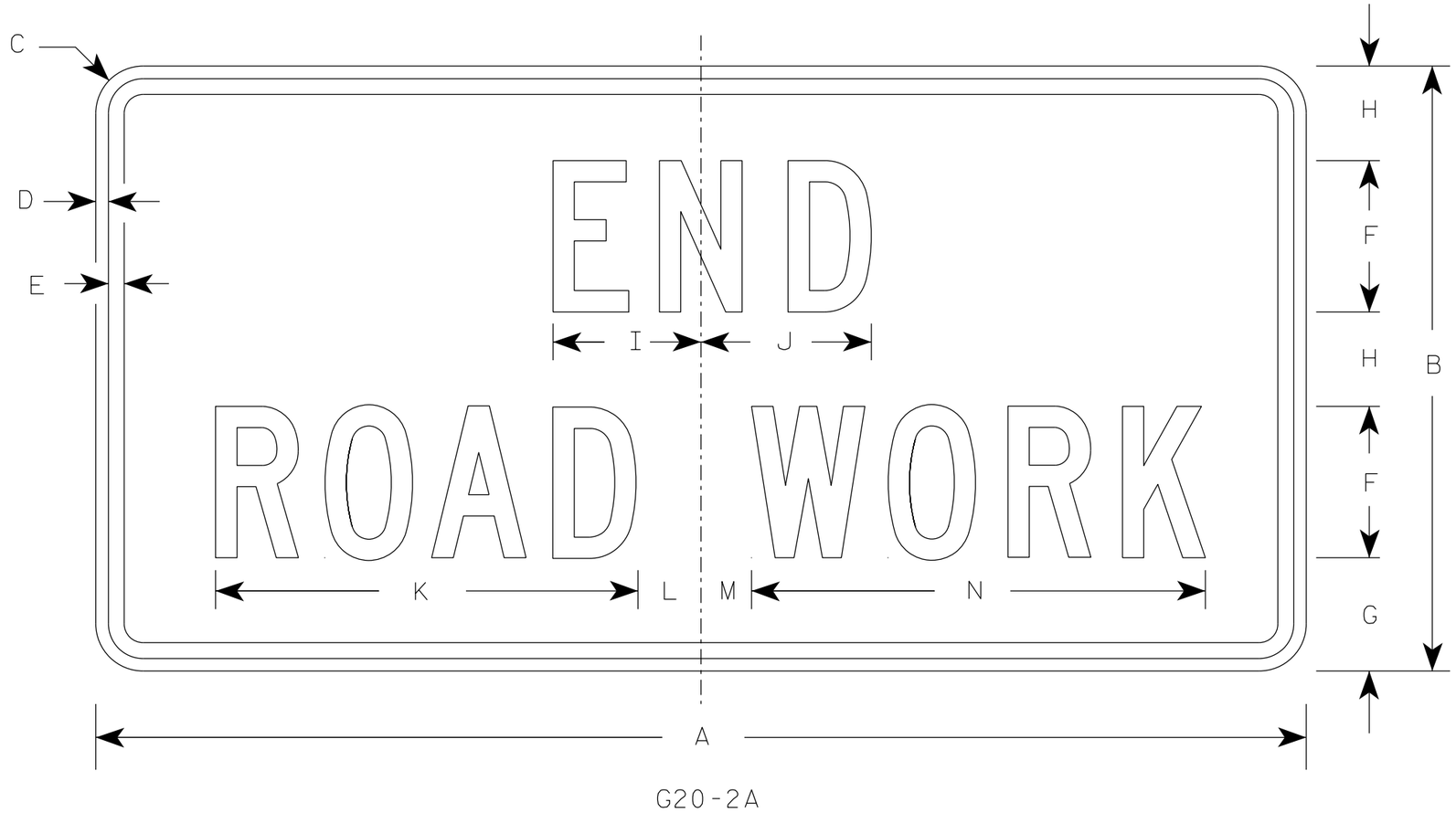
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:

SHEET NO: 156 E



G20-2A

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   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.

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 1/2	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5
2	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
2M	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
3	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
4	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
5	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0

STANDARD SIGN

G20-2A

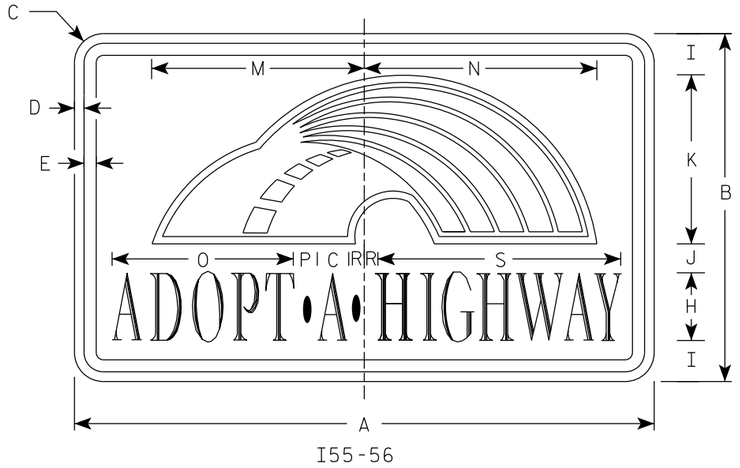
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

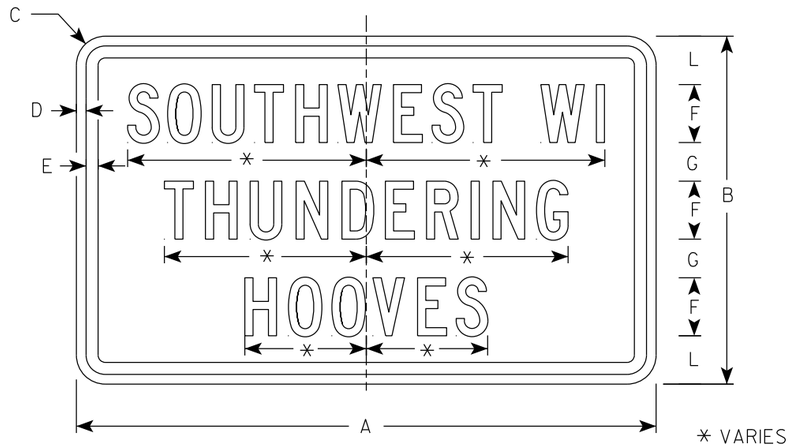
DATE 1/26/2023 PLATE NO. G20-2A.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\G202A.dgn PLOT DATE : 26-JAN 2023 8:27 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



I55-56



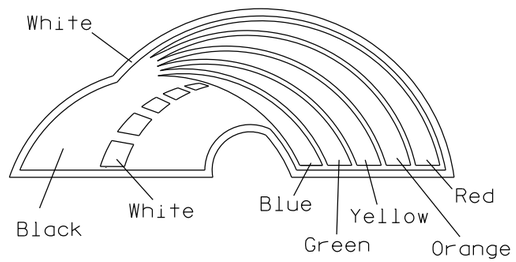
* VARIES

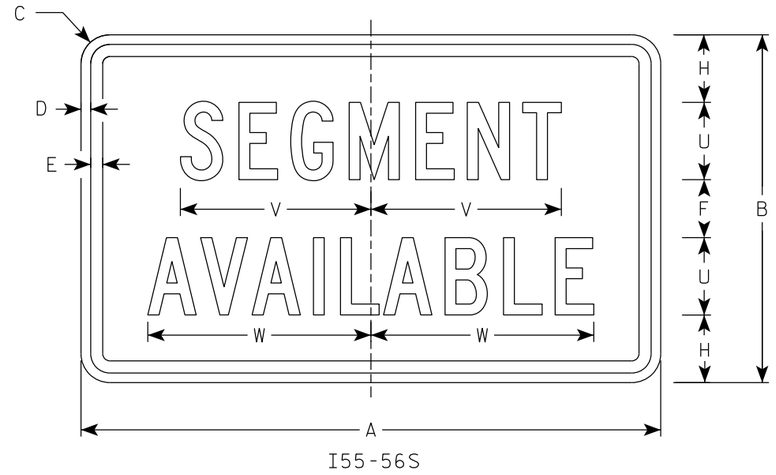
I55-56P

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - Blue
   Message - White
   Rainbow detail - See Below
3. Message Series - Adopt a Highway - Dutch 8011L
   All other Text - Series C
4. Contractor shall provide and install a new post bracket in accordance with the I55-56B sign detail.

Background Colors of Symbol*





I55-56S

*1/4" Black Border between each color of rainbow and border of rainbow

*3/8" White Border surrounds the whole image of the rainbow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	18	1 1/2	1/2	5/8	3	2	3 1/2	2 1/4	1 1/2	8 1/2	2 1/2	11	12	9 3/8	1 1/4		3/4	12 5/8	7 1/2	4	9 7/8	11 1/2				3.75
3																											
4																											
5																											

STANDARD SIGN
I55-56

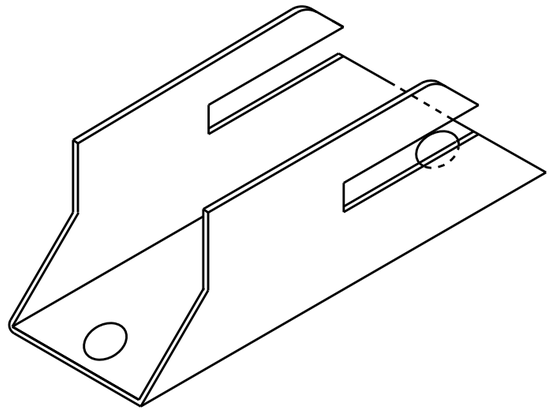
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

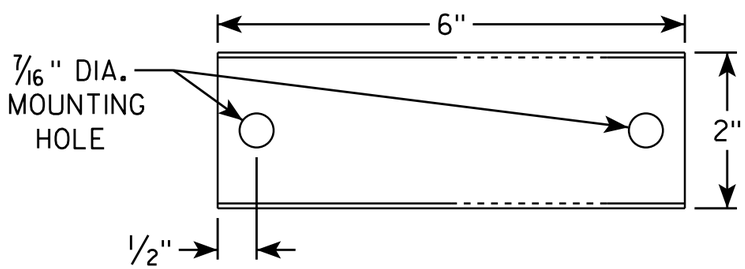
DATE 3/13/2025 PLATE NO. 155-56.5

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 158 | E

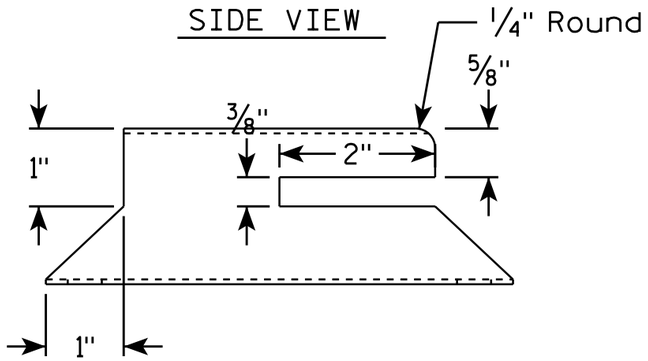
ISOMETRIC VIEW



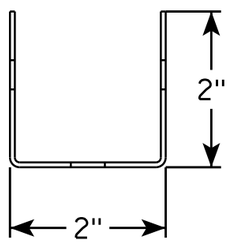
TOP VIEW



SIDE VIEW



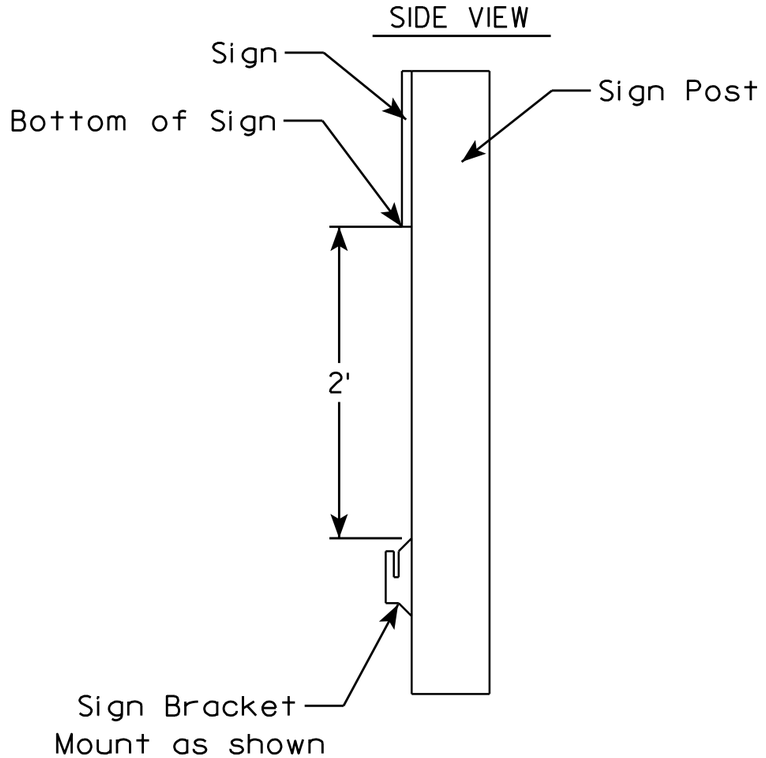
END VIEW



NOTES

1. Must be capable of permanent attachment to a wood or steel channel sign post utilizing the fastening hardware specified on the A4-8 sign plate.
2. Shall be entirely primed and painted with two coats of a black powder coated enamel paint.
3. Shall be made with 12 gauge steel, and incorporate no welds, no hinged components, no threaded lock-type components, and no parts which are loose or can be separated from the main body.
4. Shall have rounded edges with at least 1/8" radii.
5. Shall not have unrounded and uncoated metal edges which can contact the back surface of the roll-up sign.
6. Top of bracket shall be mounted 2' below the bottom of the I55-56 sign.
7. Cost of bracket and fastening hardware shall be incidental to the I55-56 sign.

SIDE VIEW



ROLLUP SIGN BRACKET
I55-56B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

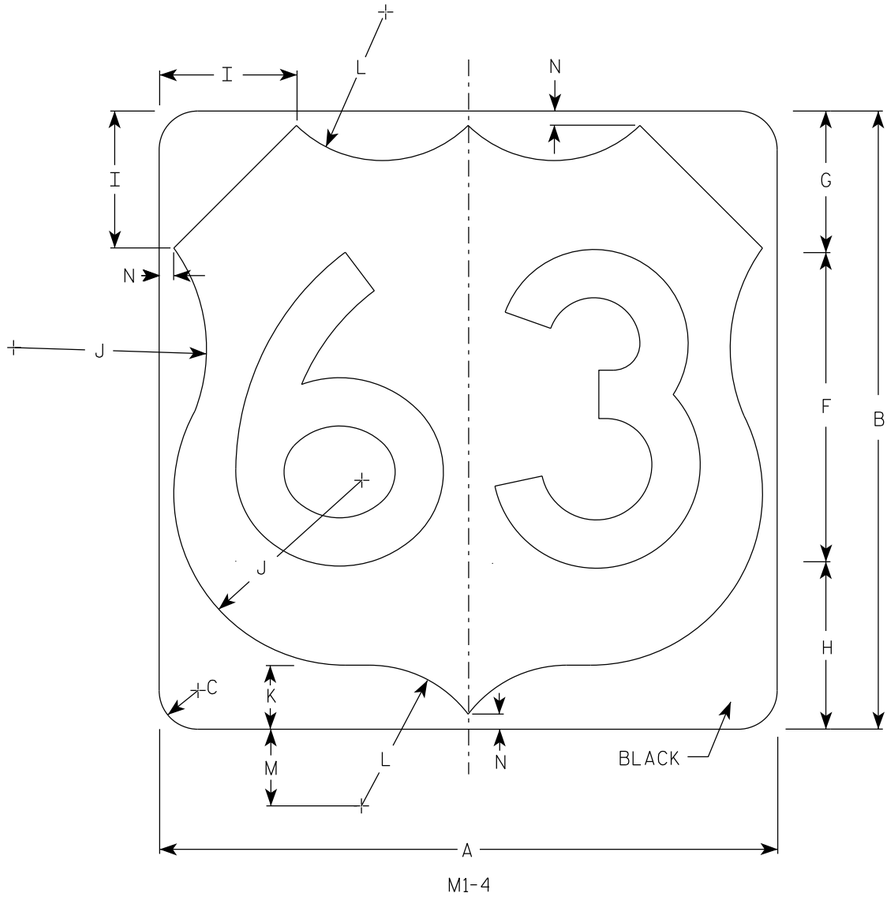
DATE 4/26/16 PLATE I55-56B.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

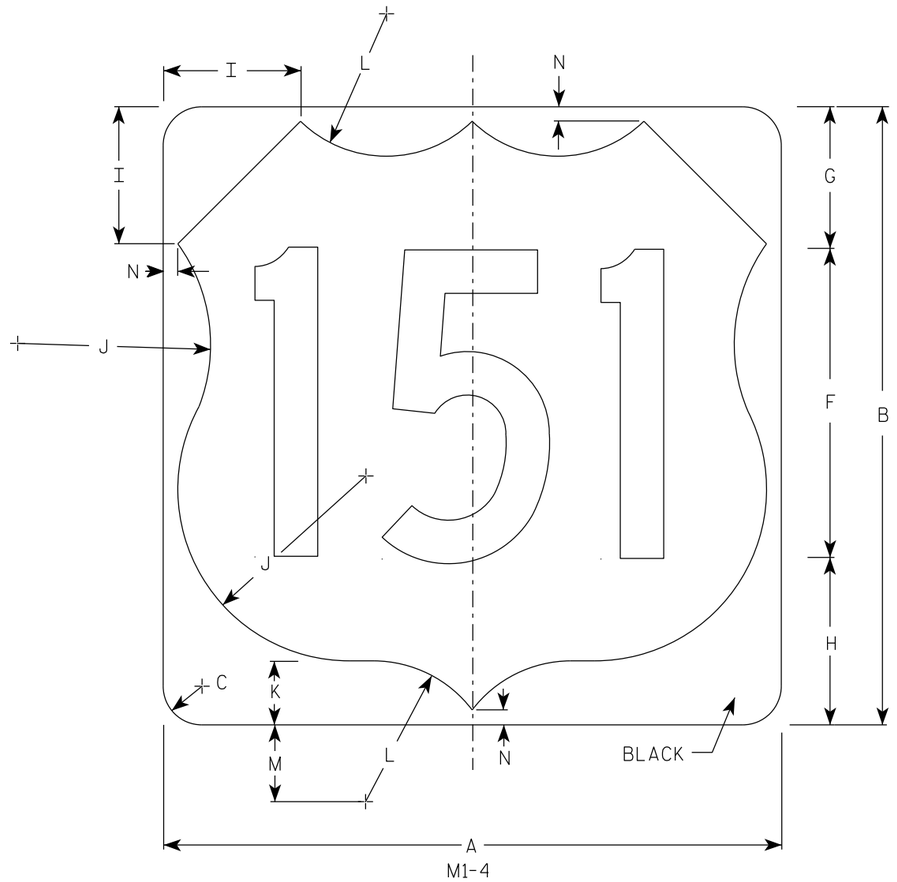
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\I5556B.DGN PLOT DATE : 26-APR-2016 17:29 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 1.945842:1.000000
WISDOT/CADDS SHEET 42

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



M1-4



M1-4

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	24	1 ½			12	5 ½	6 ½	5	7 ½	2 ½	5 ½	3	½													4.0
2M	24	24	1 ½			12	5 ½	6 ½	5	7 ½	2 ½	5 ½	3	½													4.0
3	36	36	2 ¼			18	8 ¼	9 ¼	7 ¼	11 ¼	3 ¾	8 ¼	4 ½	¾													9.0
4	36	36	2 ¼			18	8 ¼	9 ¼	7 ¼	11 ¼	3 ¾	8 ¼	4 ½	¾													9.0
5	36	36	2 ¼			18	8 ¼	9 ¼	7 ¼	11 ¼	3 ¾	8 ¼	4 ½	¾													9.0

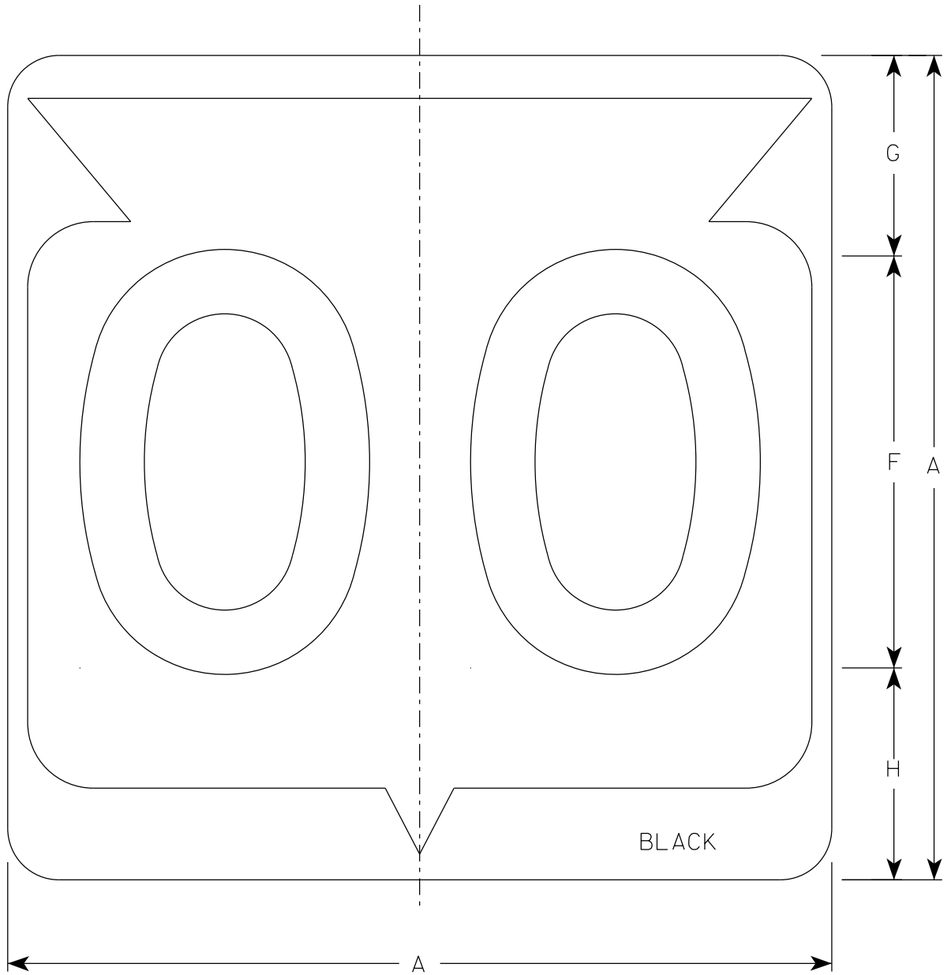
USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/20/22 PLATE NO. M1-4.11

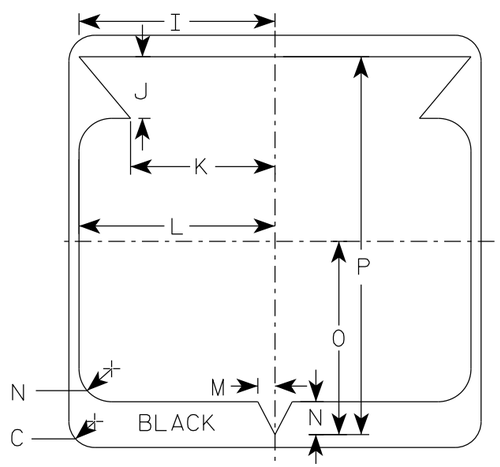
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 160 E



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



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
2M	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

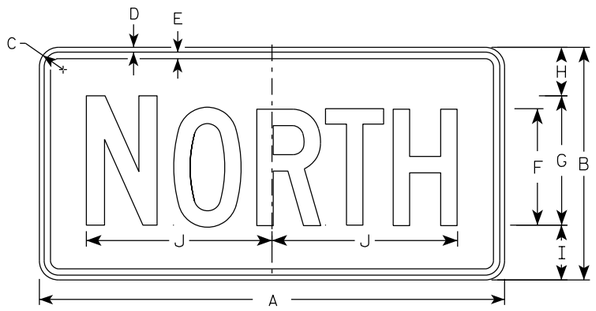
STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

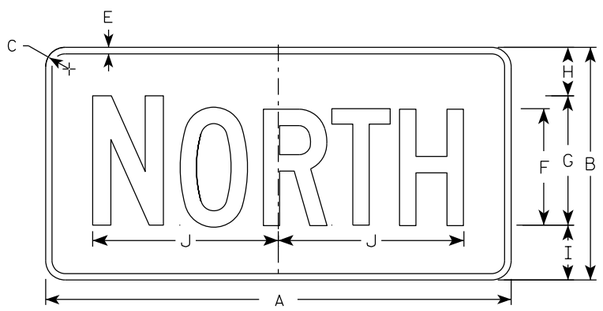
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/8/2022 PLATE NO. M1-6.11

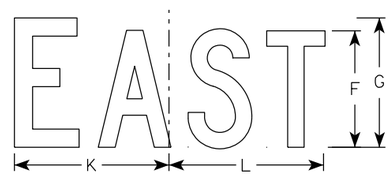
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 161	E



M3-1
MM3-1
MP3-1



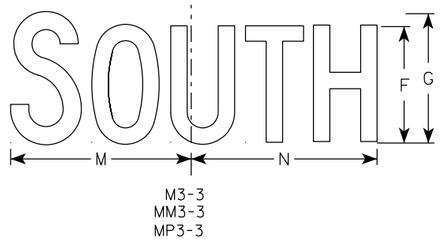
MB3-1
MK3-1
MN3-1



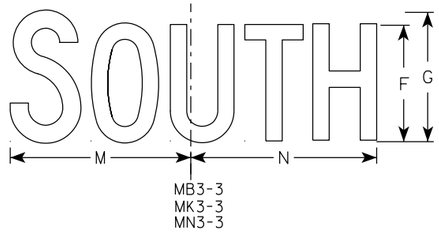
M3-2
MM3-2
MP3-2



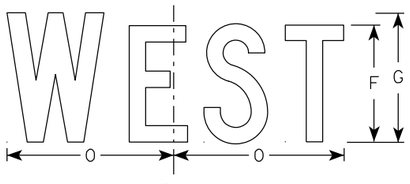
MB3-2
MK3-2
MN3-2



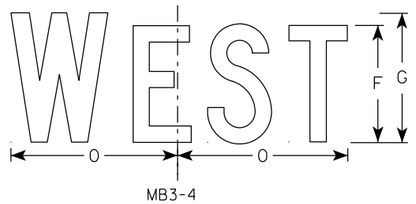
M3-3
MM3-3
MP3-3



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 Reflective
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																											
2S	24	12	1 1/2	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												2.00
2M	24	12	1 1/2	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												2.00
3	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5
4	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5
5	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5

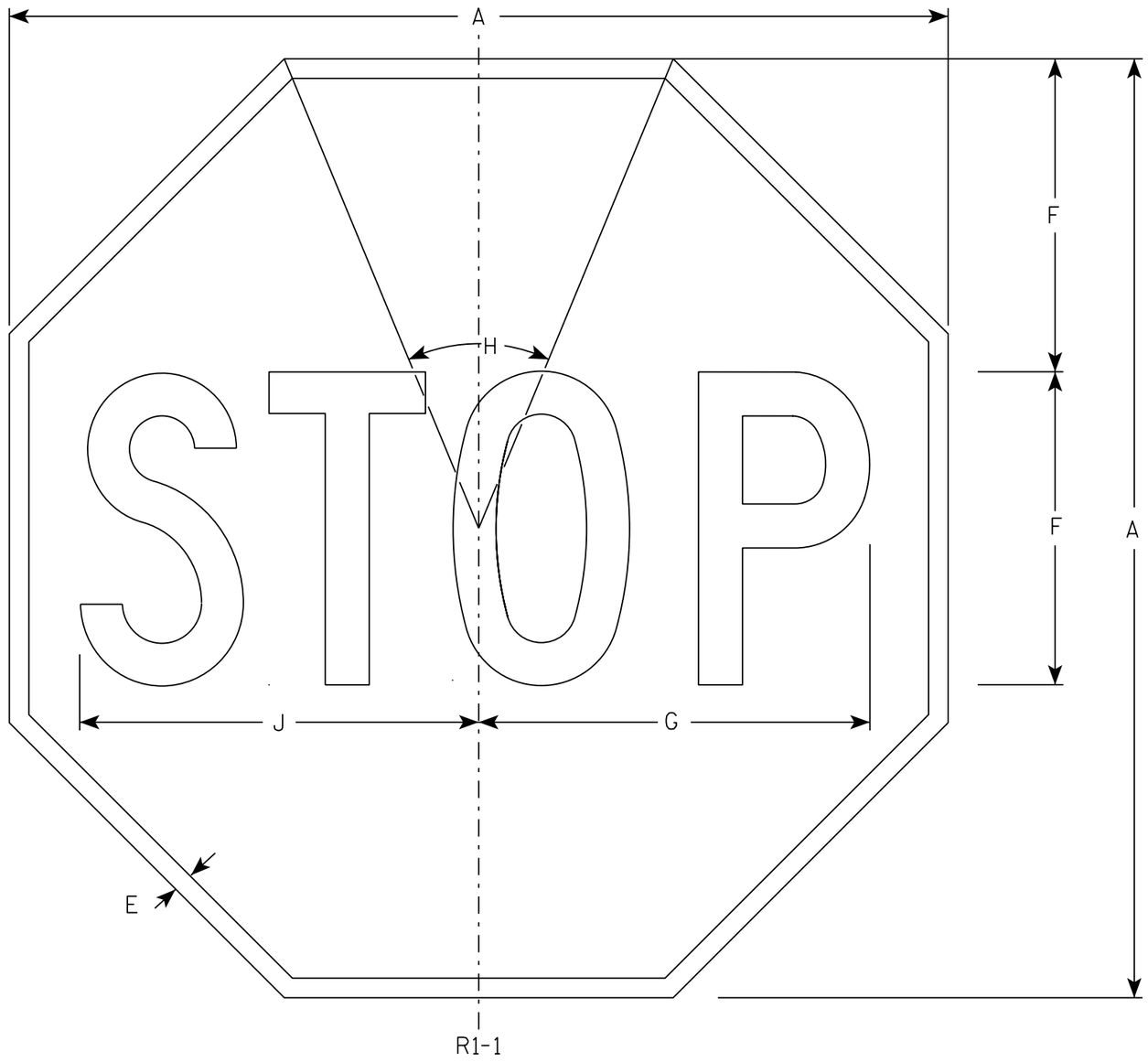
STANDARD SIGNS
M3-1 THRU M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 2/8/2023 PLATE NO. M3-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 162	E



NOTES

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

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

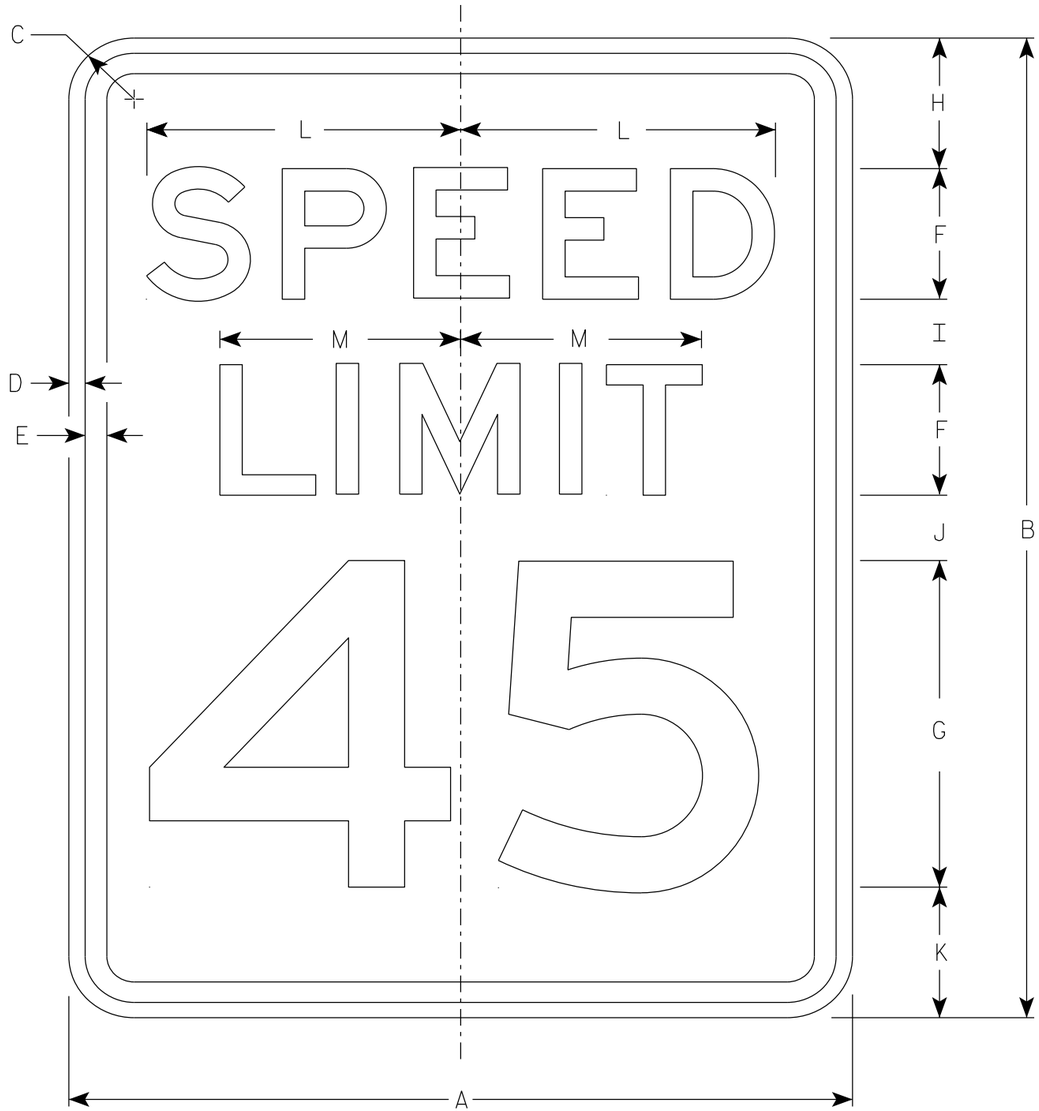
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 163	E



R2-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. 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 1/2	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/2	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 7/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 7/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 7/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	3	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

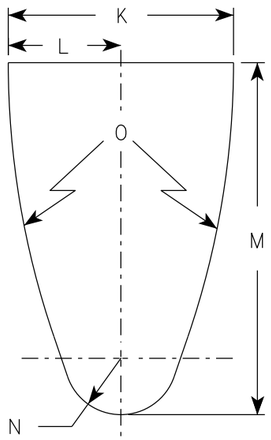
WISCONSIN DEPT OF TRANSPORTATION

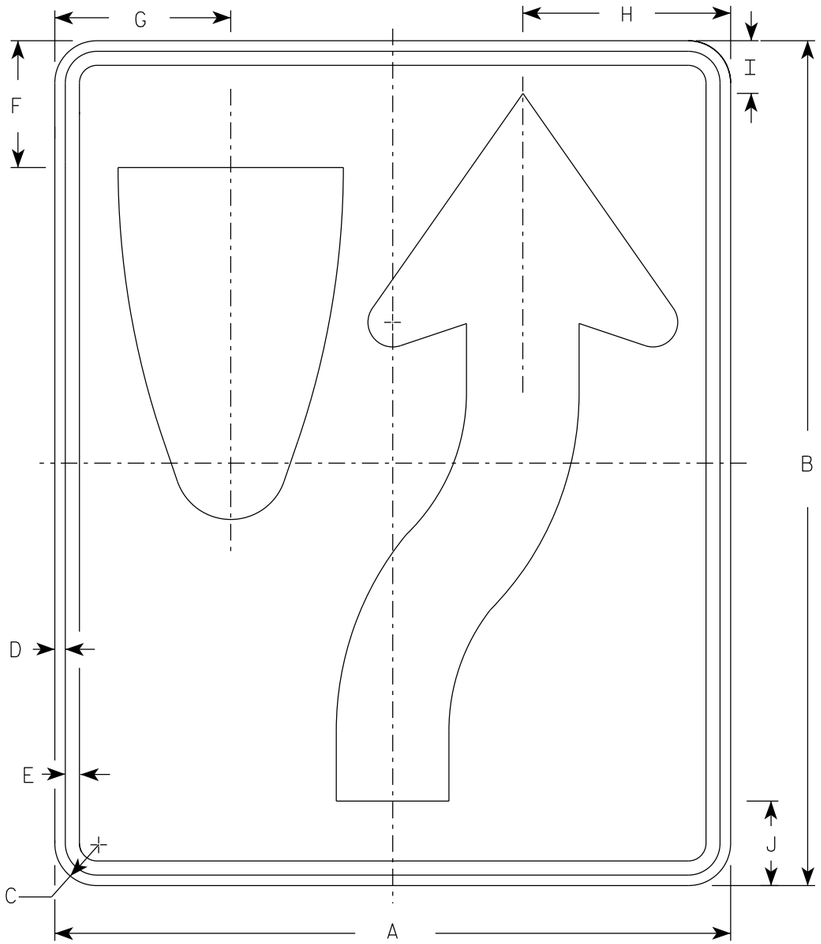
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/1/23 PLATE NO. R2-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 164 | E

DIVIDER DETAIL



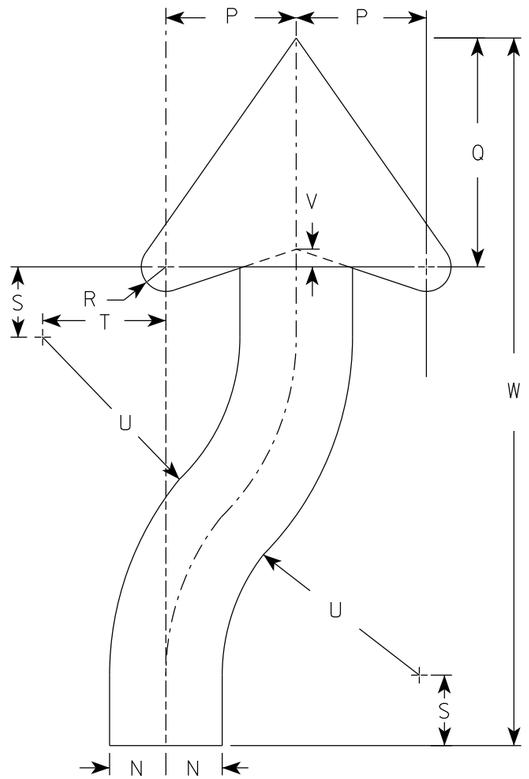


R4-7

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. 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 1/2	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 1/2	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 1/2	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 7/8	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 7/8	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	3	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

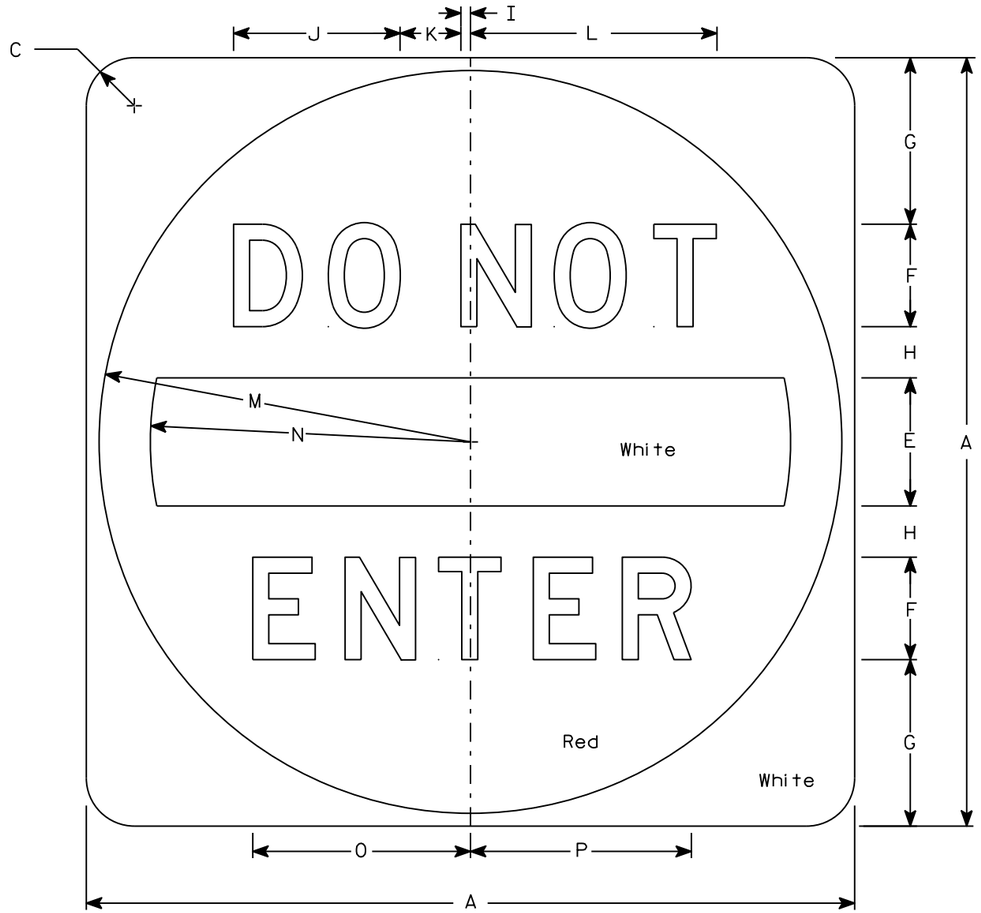
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 8/17/23 PLATE NO. R4-7.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 165	E



R5-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See detail
   Message - White
3. Message Series - D

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		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.25
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

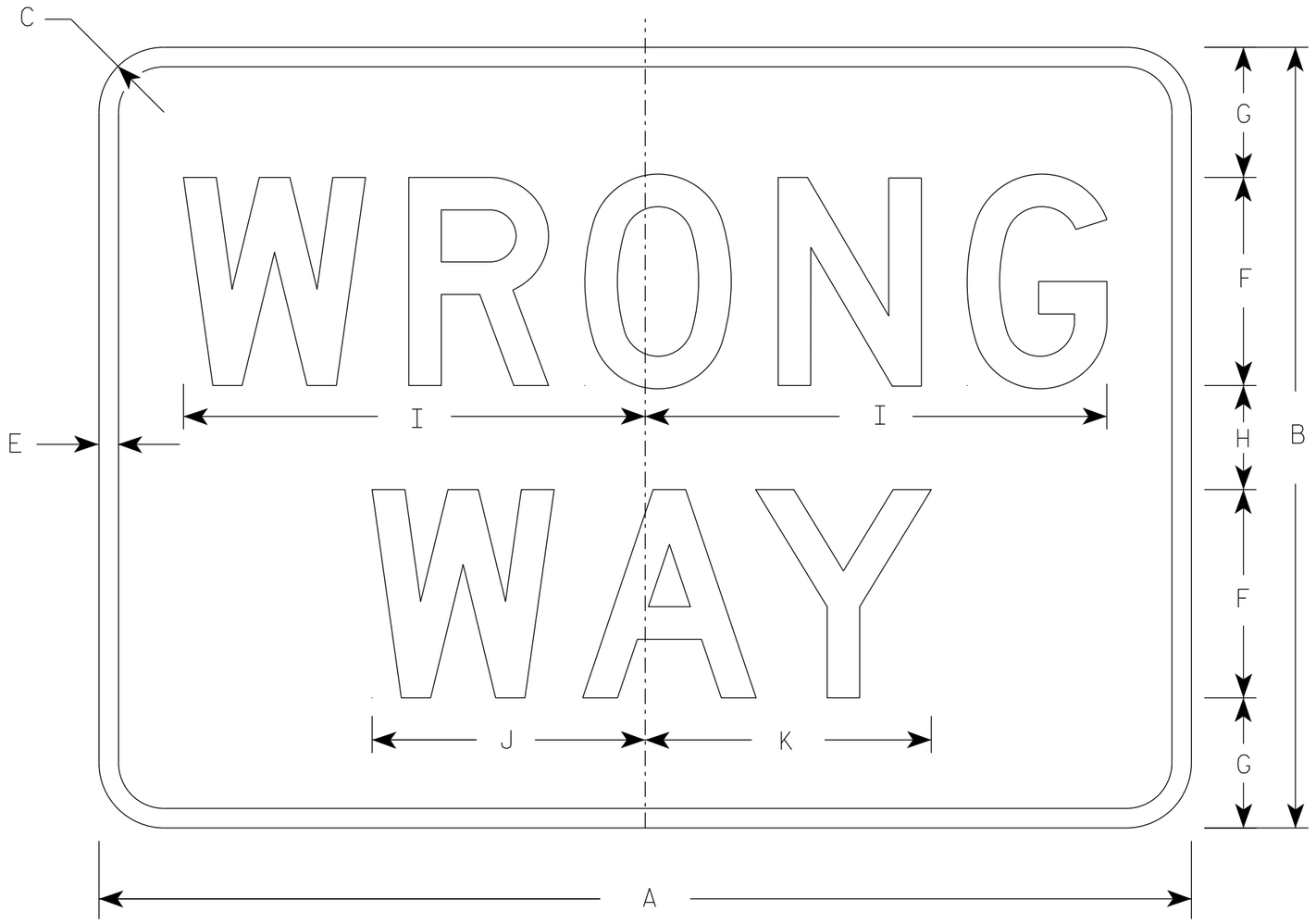
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/18 PLATE NO. R5-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 166 | E



R5-1A

NOTES

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

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	18	1 1/2		1/2	5	3	2	11	6 1/2	6 7/8																3.75
2S	36	24	1 1/2		5/8	6	4 1/2	3	13 1/4	7 7/8	8 1/4																6.00
2M	42	30	1 7/8		3/4	8	5	4	17 3/4	10 1/2	11																8.75
3	42	30	1 7/8		3/4	8	5	4	17 3/4	10 1/2	11																8.75
4	42	30	1 7/8		3/4	8	5	4	17 3/4	10 1/2	11																8.75
5	42	30	1 7/8		3/4	8	5	4	17 3/4	10 1/2	11																8.75

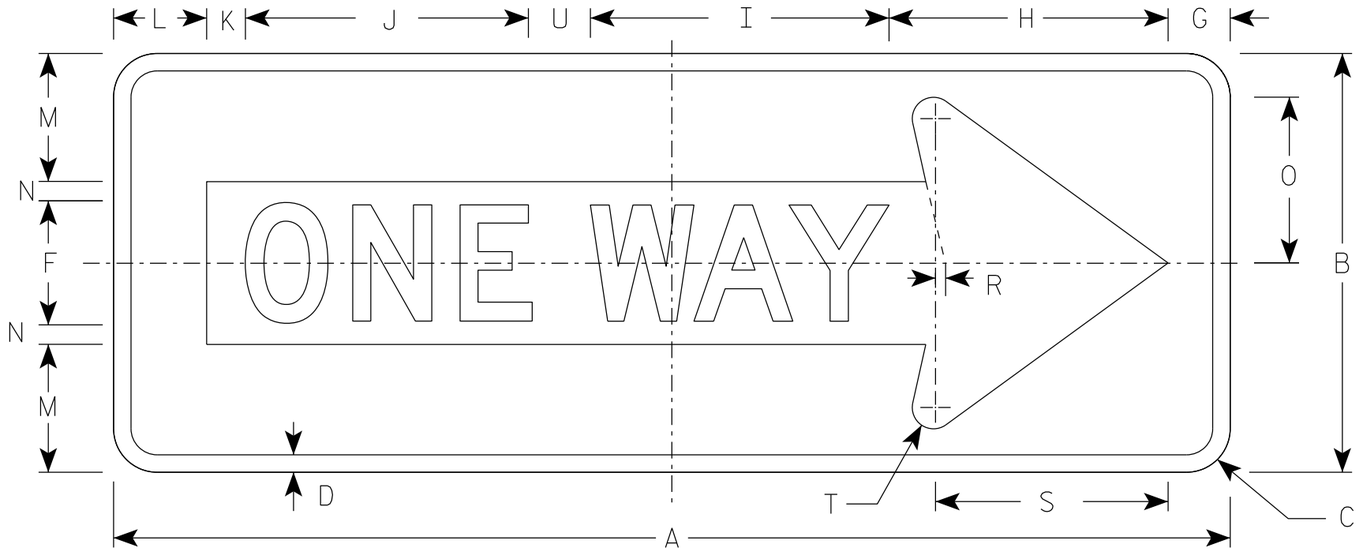
STANDARD SIGN
R5-1A

WISCONSIN DEPT OF TRANSPORTATION

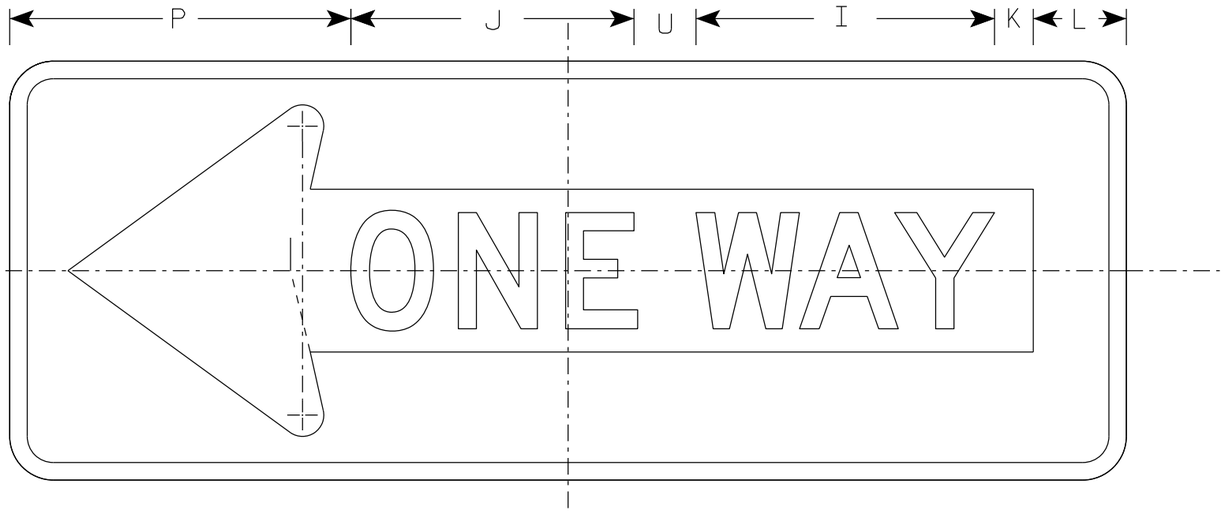
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/17/23 PLATE NO. R5-1A.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 167 | E



R6-1R



R6-1L

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - Black
   Message - Black Legend & White Arrow & Border
3. Message Series - D

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 ½	½		4	2	7 ½	9 ⅝	9 ⅛	1 ¼	3	3 ⅜	⅝	4 ⅜	11		⅜	7 ½	¾	2						3.0
2M	48	18	1 ⅞	¾		5	2 ½	11	13	12 ¼	2 ¾	3 ½	5 ½	1	7 ⅛	13 ½		½	10 ⅛	⅞	3						6.0
3	48	18	1 ⅞	¾		5	2 ½	11	13	12 ¼	2 ¾	3 ½	5 ½	1	7 ⅛	13 ½		½	10 ⅛	⅞	3						6.0
4	48	18	1 ⅞	¾		5	2 ½	11	13	12 ¼	2 ¾	3 ½	5 ½	1	7 ⅛	13 ½		½	10 ⅛	⅞	3						6.0
5																											

STANDARD SIGN
R6-1 L&R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/7/2025 PLATE NO. R6-1.5

PROJECT NO:

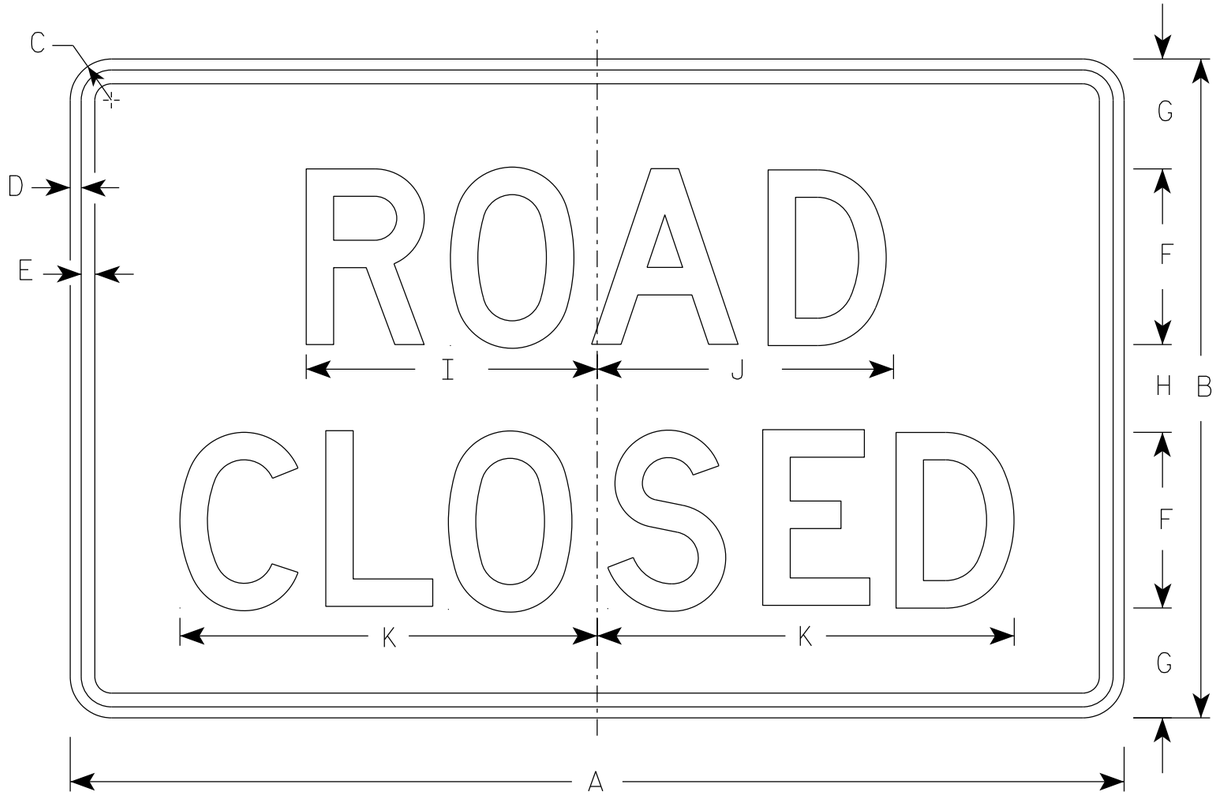
SHEET NO: 168 E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R61.dgn PLOT DATE : 7-APR 2025 1:18 PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

7

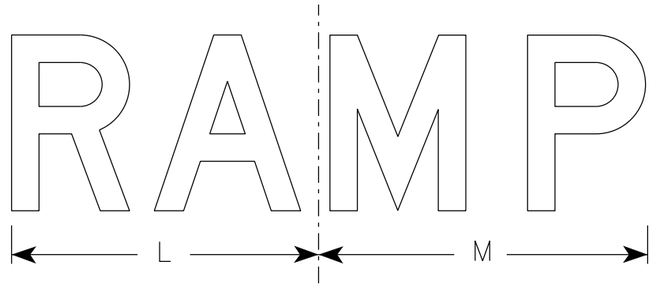
7



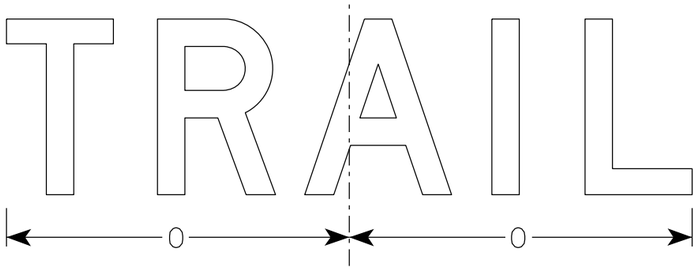
R11-2

NOTES

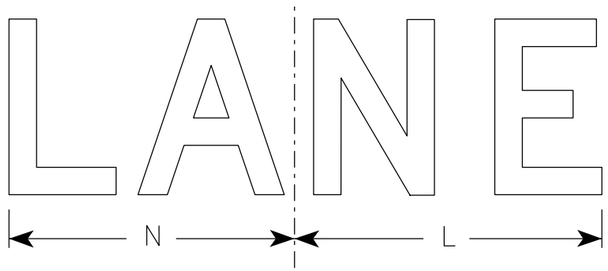
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the 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 7/8	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 7/8	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 7/8	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 7/8	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 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0

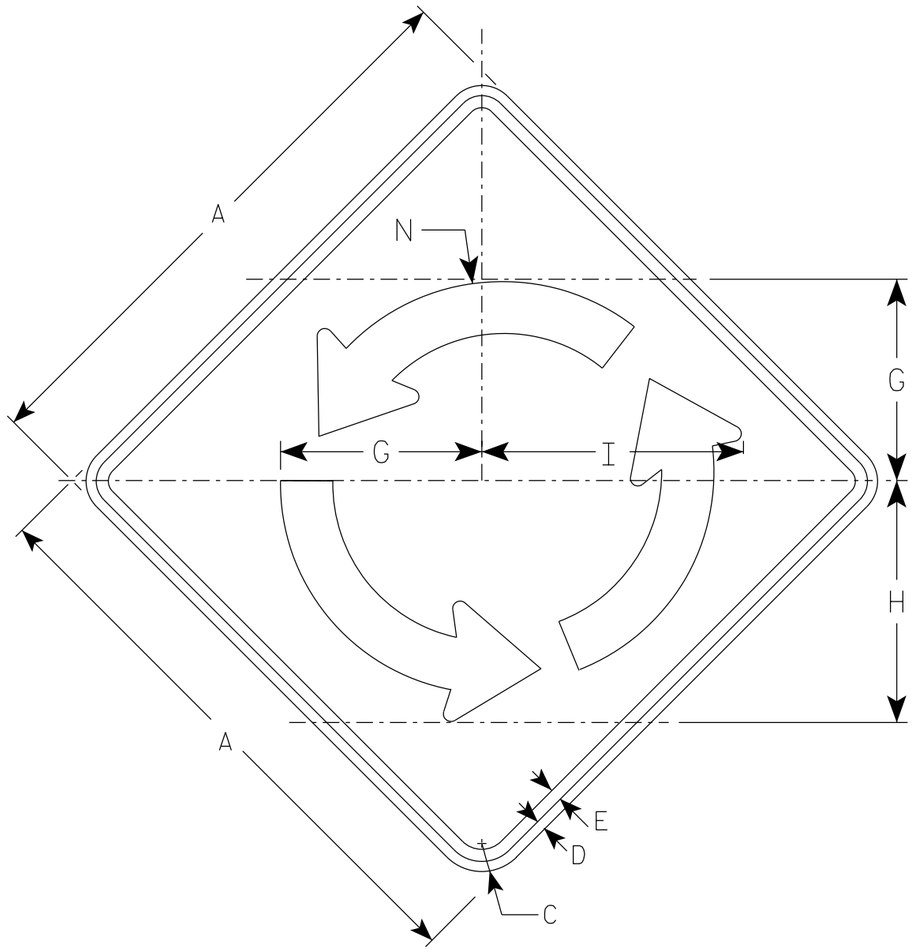
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/5/24 PLATE NO. R11-2.12

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

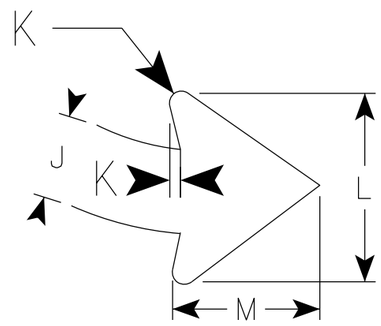


W2-6

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 7/8	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 7/8	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		2 1/4	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		3	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

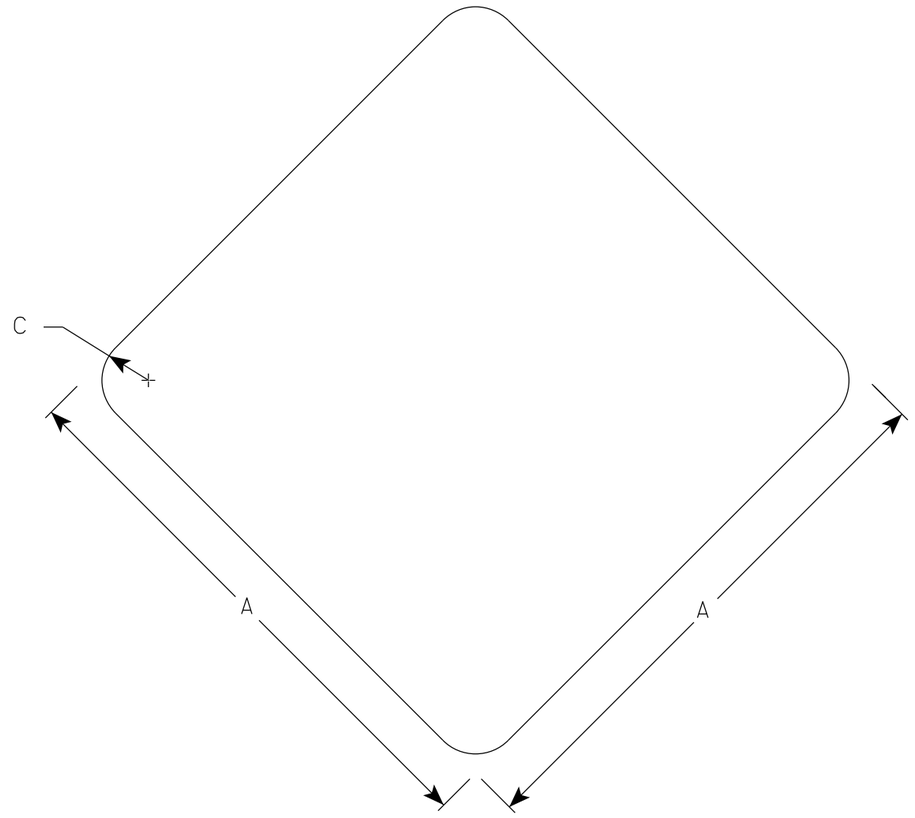
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/17/2023 PLATE NO. W2-6.8

PROJECT NO:

SHEET NO: 170 E



W5-54

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - 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	12		1 ½																								1.0
2S	18		1 ½																								2.25
2M	18		1 ½																								2.25
3																											
4																											
5																											

STANDARD SIGN
W5-54

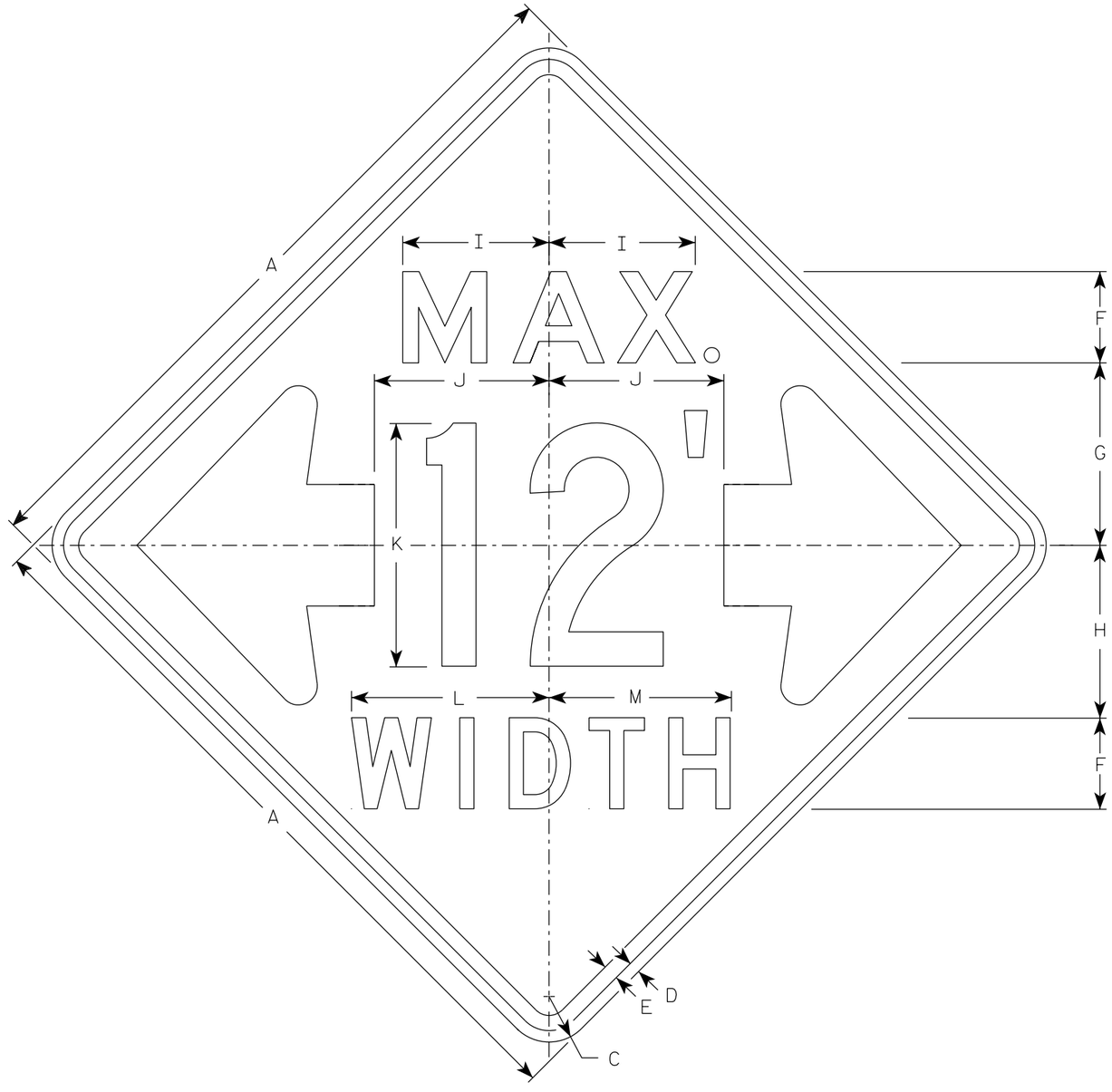
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/5/2024 PLATE NO. W5-54.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

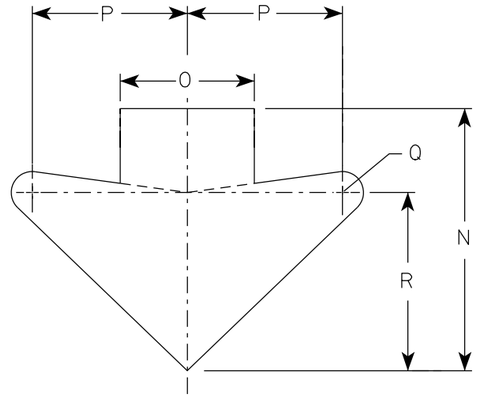
FILE NAME : C:\CAEfiles\Projects\tr_stdplate_W554.dgn PLOT DATE : 5-MARCH 2024 11:55 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



W12-52

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. The top line is series E, the numerals are series C, and the bottom line is series D.
5. Substitute appropriate numerals and adjust spacing as required.



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	48		3	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
2M	48		3	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
3																											
4																											
5																											

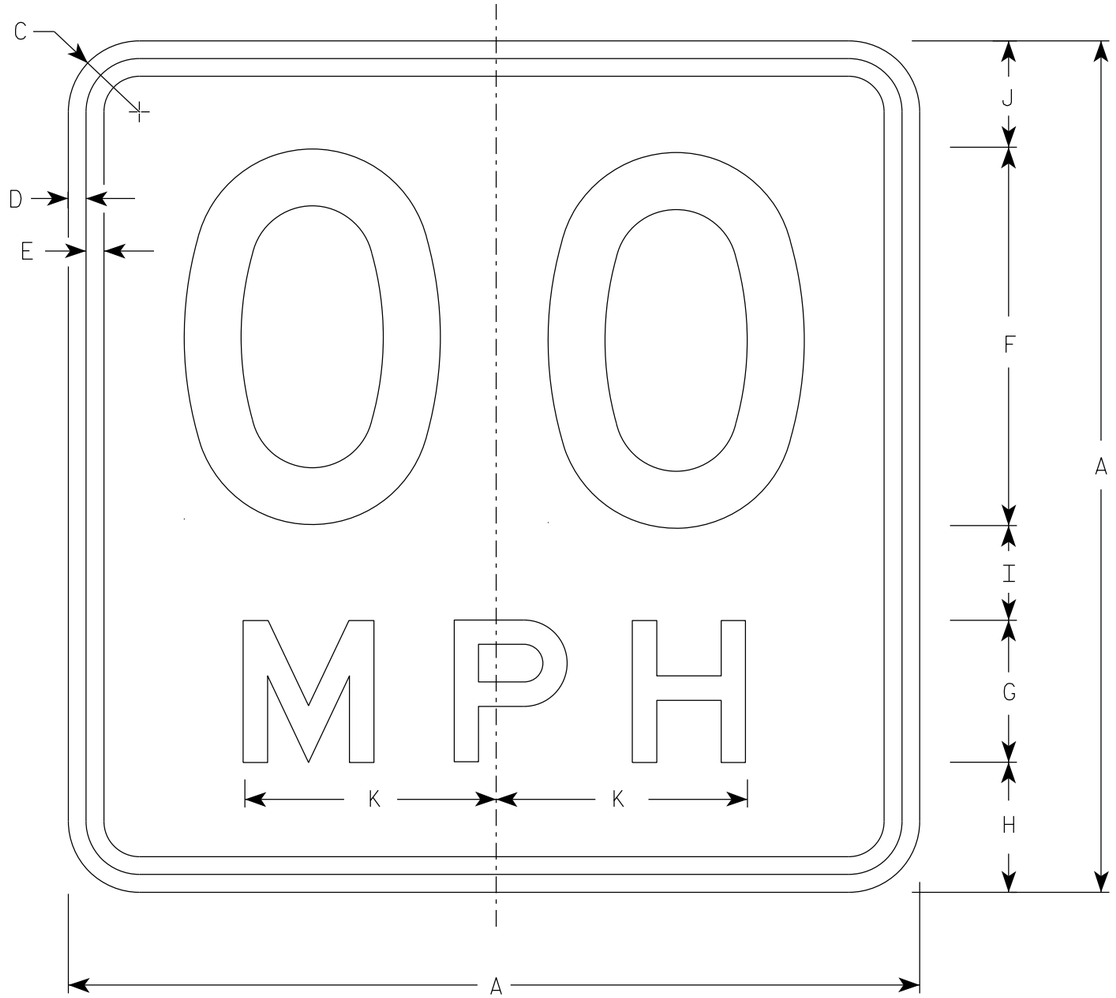
STANDARD SIGN
W12-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/10/2024 PLATE NO. W12-52.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 172 | E



W13-1

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - See Note 5
4. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
5. Line 1 is Series D
   Line 2 is Series E

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

	SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
	1	18		1 1/2	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2S	18		1 1/2	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2M	18		1 1/2	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
	3	24		1 1/2	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
	4	36		2 1/4	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
	5	36		2 1/4	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

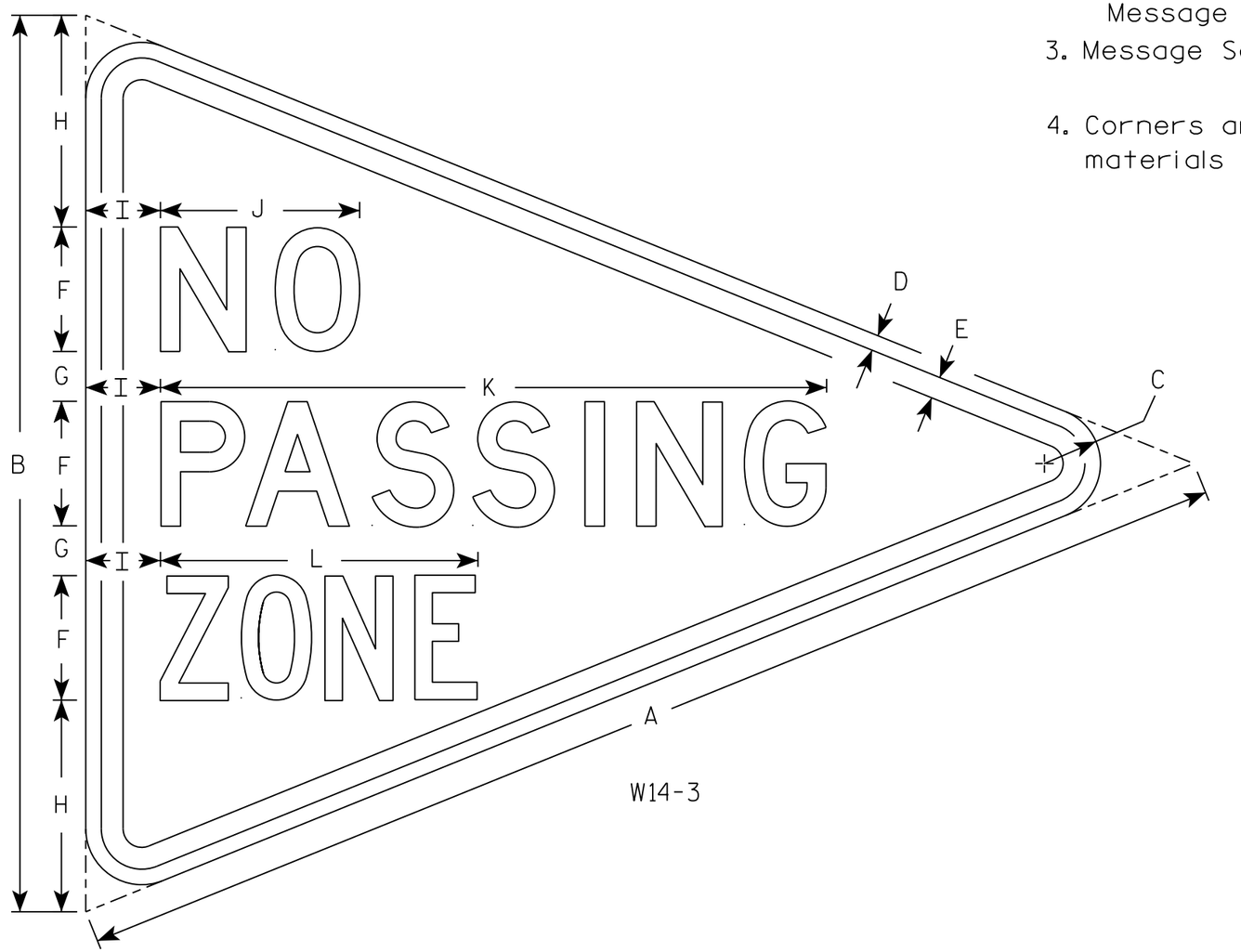
DATE 1/8/2024 PLATE NO. W13-1.17

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W131.dgn PLOT DATE : 8-Jan 2024 11:07 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

NOTES

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



W14-3

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															5.56
2M																											
3																											
4																											
5																											

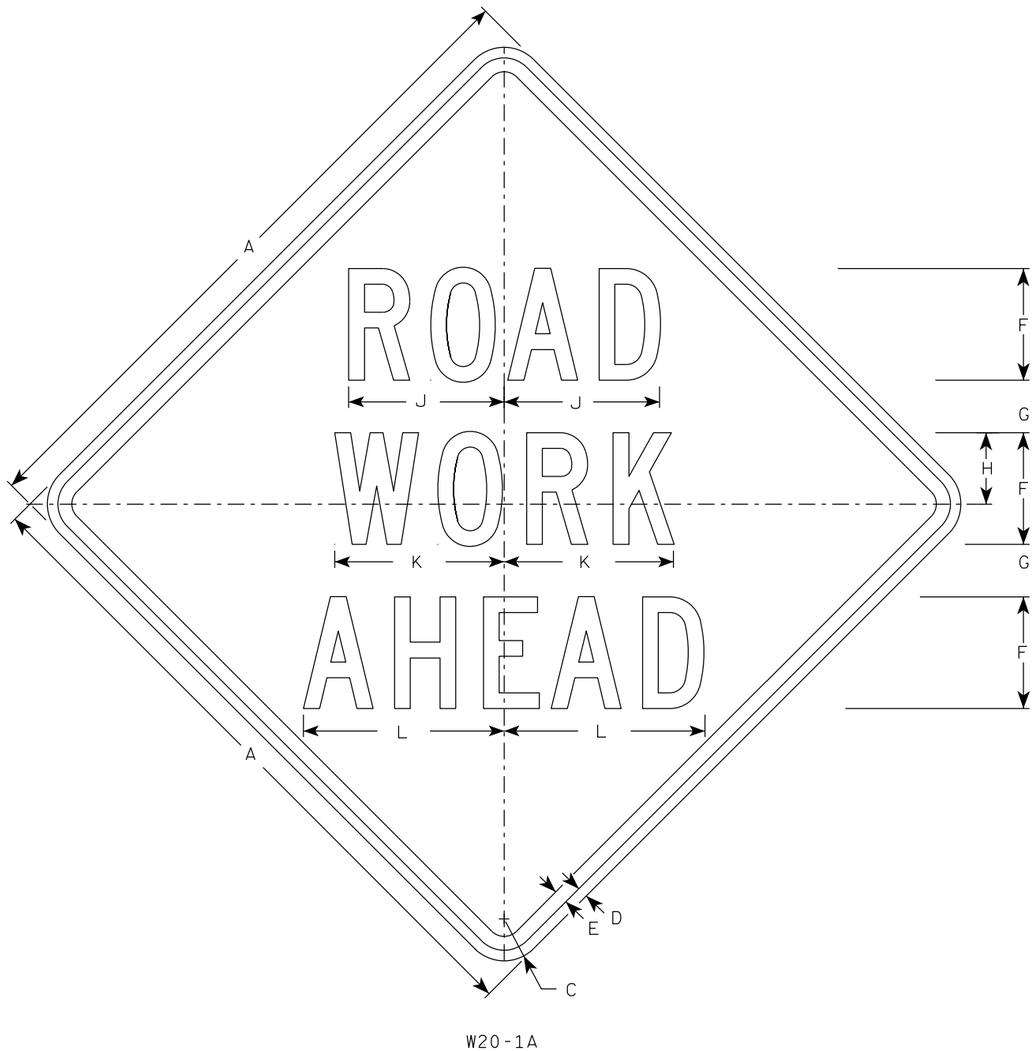
STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

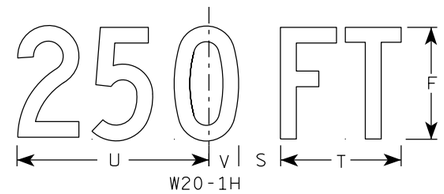
APPROVED Matthew R Rauch
for State Traffic Engineer

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

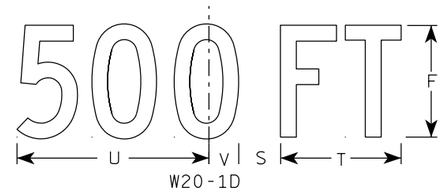
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 174	E



W20-1A



W20-1H



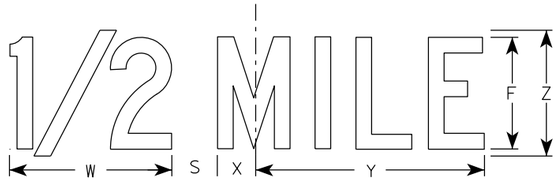
W20-1D



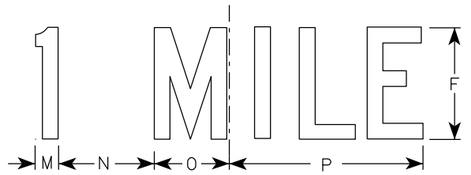
W20-1C



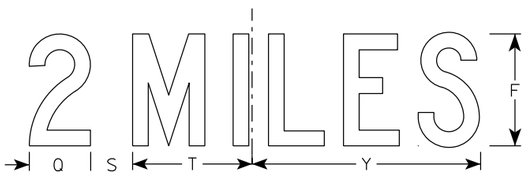
W20-1B



W20-1G



W20-1F



W20-1E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   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.

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		2 1/4	5/8	3/4	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, E, F, G & H

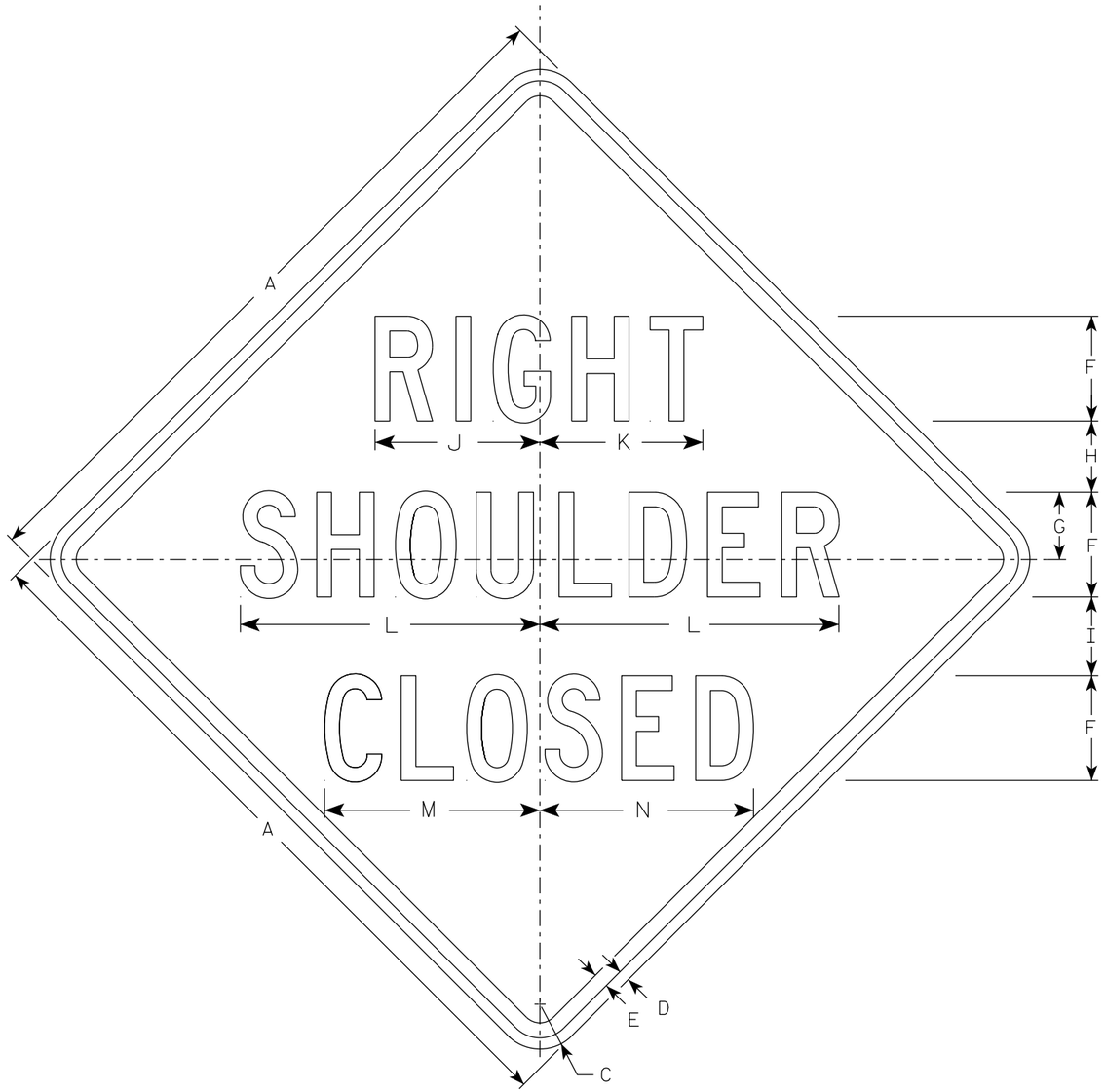
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

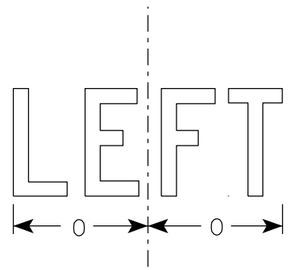
DATE 1/10/2024 PLATE NO. W20-1.12

PROJECT NO:

SHEET NO: 175 E



W21-5A



W21-5AL

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D

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		2 1/4	5/8	3/4	5	3 3/8	3 1/2	4	7 7/8	7 3/4	14 1/4	10 1/4	10 1/8	6 1/4												9.0
2S	48		3	3/4	1	7	4 1/2	4 3/4	5 1/4	11	10 7/8	20	14 3/8	14 1/4	8 3/4												16.0
2M	48		3	3/4	1	7	4 1/2	4 3/4	5 1/4	11	10 7/8	20	14 3/8	14 1/4	8 3/4												16.0
3	48		3	3/4	1	7	4 1/2	4 3/4	5 1/4	11	10 7/8	20	14 3/8	14 1/4	8 3/4												16.0
4	48		3	3/4	1	7	4 1/2	4 3/4	5 1/4	11	10 7/8	20	14 3/8	14 1/4	8 3/4												16.0
5	48		3	3/4	1	7	4 1/2	4 3/4	5 1/4	11	10 7/8	20	14 3/8	14 1/4	8 3/4												16.0

STANDARD SIGN
W21-5A

WISCONSIN DEPT OF TRANSPORTATION

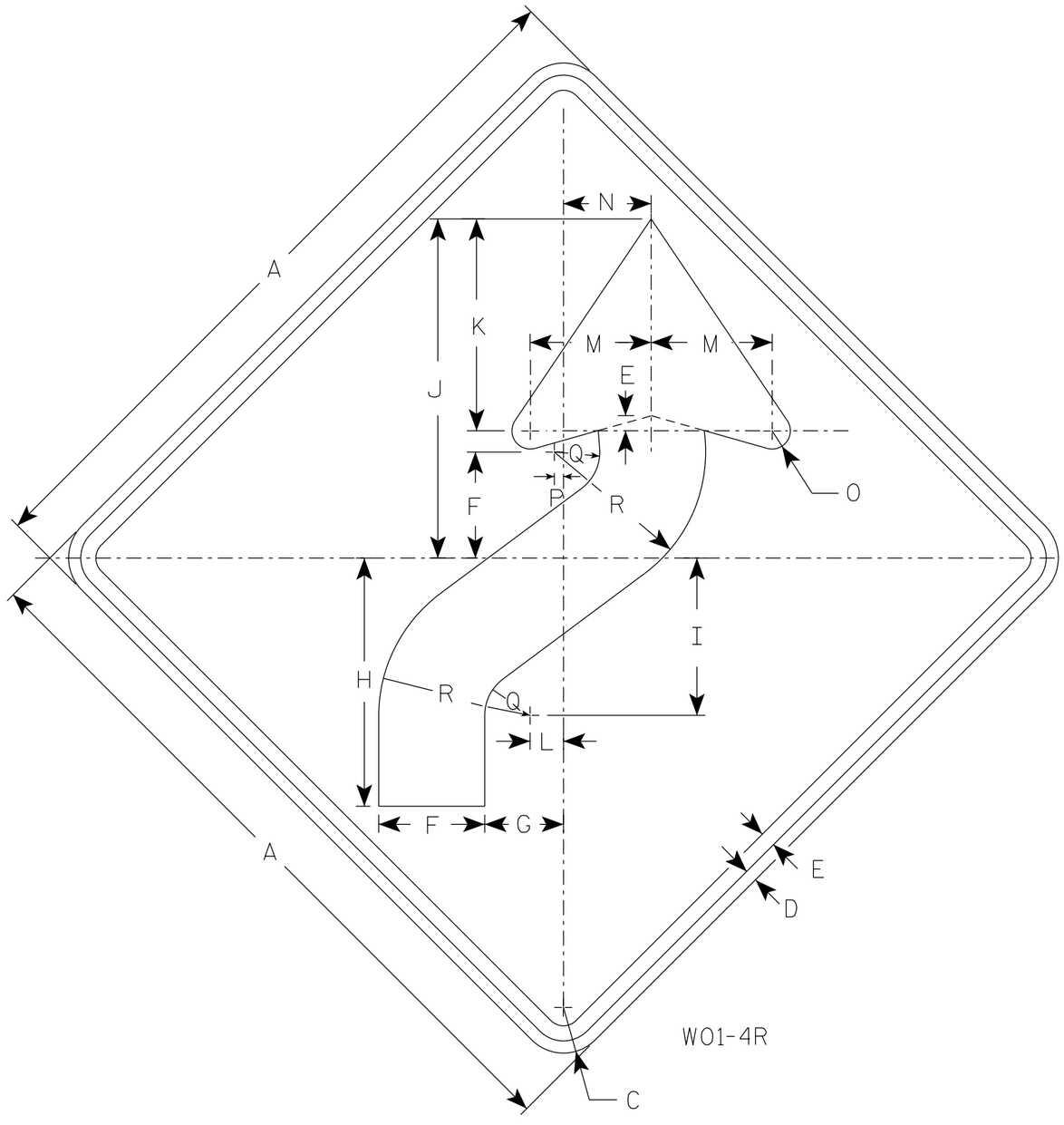
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/11/2024 PLATE NO. W21-5A.4

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 176 | E

7

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W215A.dgn PLOT DATE : 11-JAN 2024 3:48 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



WO1-4R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. WO1-4L is the same as WO1-4R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
2S	48		3	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
2M	48		3	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
3	48		3	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
4	48		3	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
5	48		3	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

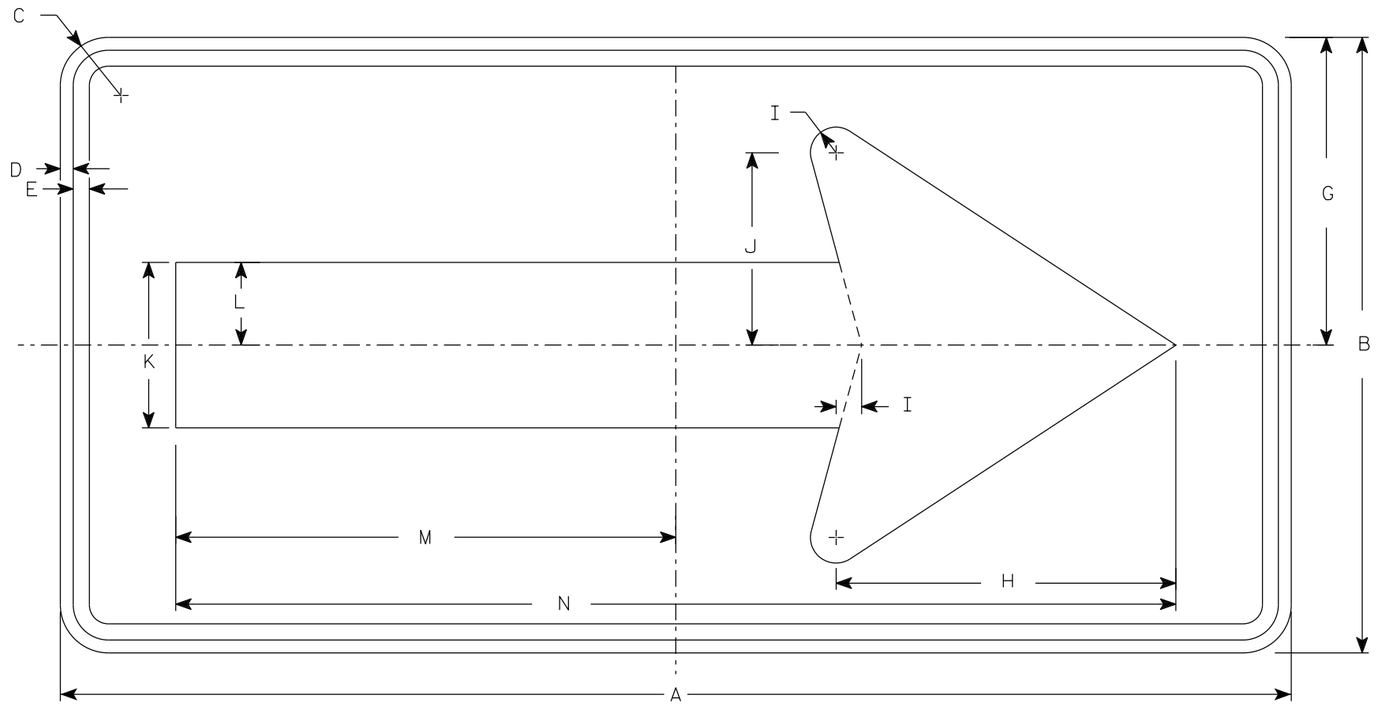
STANDARD SIGN
WO1-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 1/24/2024 PLATE NO. WO1-4.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 177 | E



WO1-6

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 7/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 7/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 7/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 7/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	60	30	1 7/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5

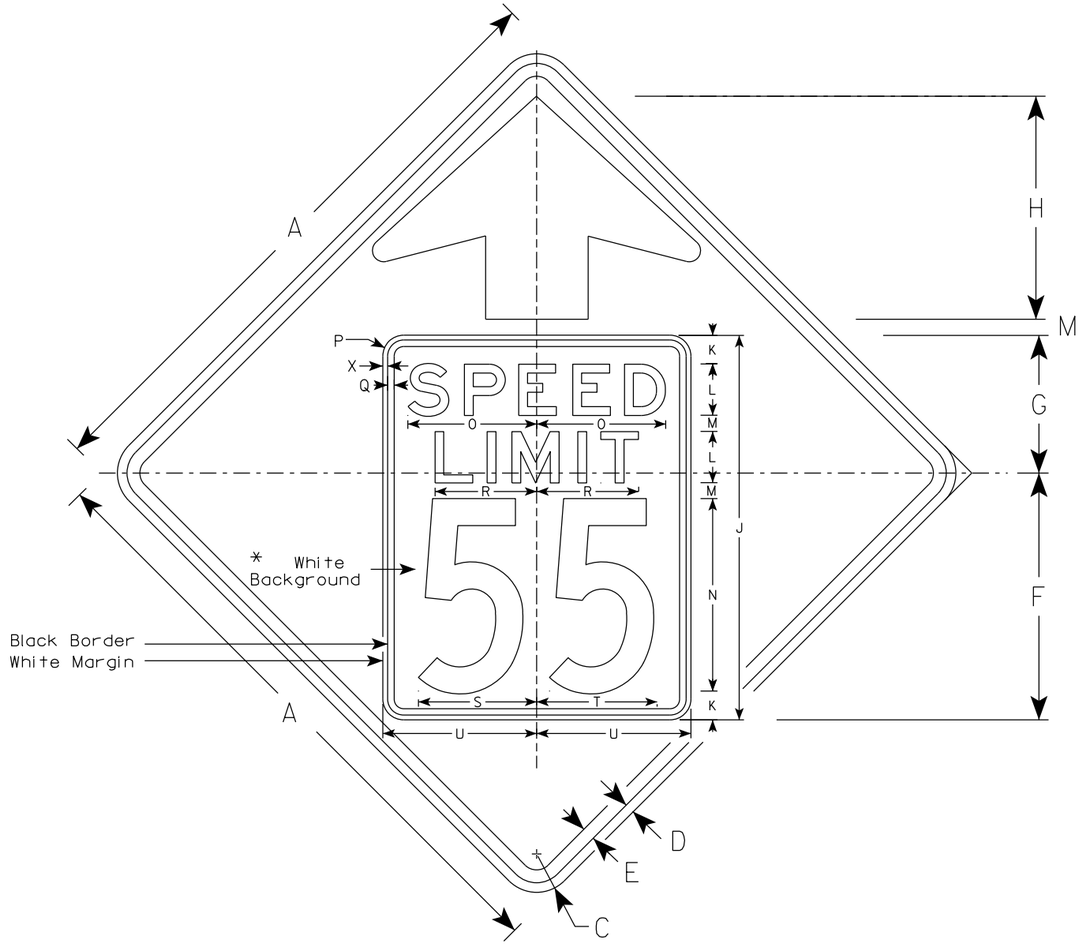
STANDARD SIGN
WO1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/24/2024 PLATE NO. WO1-6.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

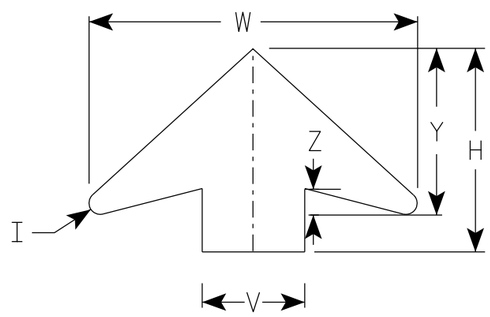


W03-5

NOTES

1. Sign is Type II - Type F Reflective
2. Color: *
   Background - ORANGE*
   Message - BLACK
3. Message Series - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2S	48		3	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
2M	48		3	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
3	48		3	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
4	48		3	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		3	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN
W03-5

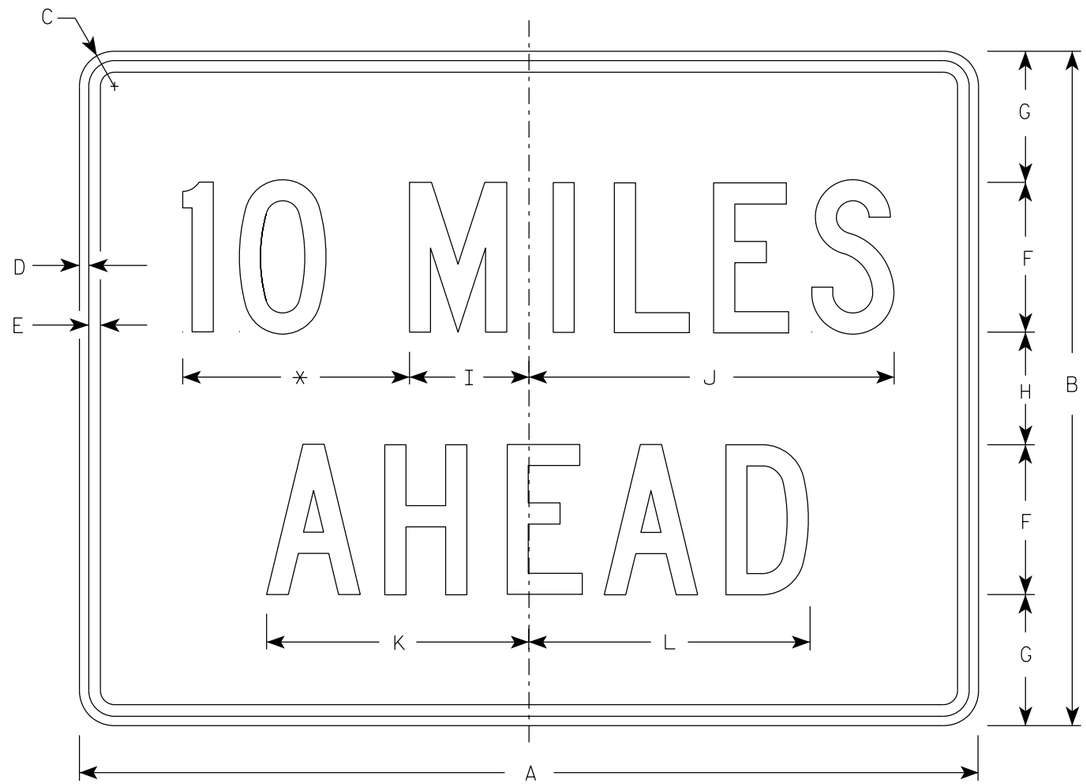
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

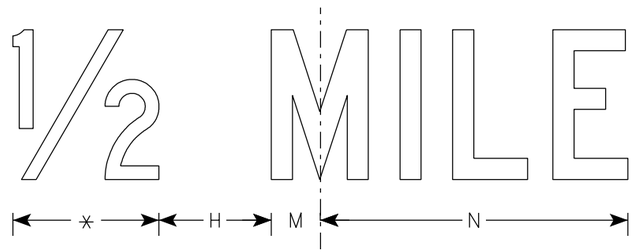
DATE 1/24/2024 PLATE NO. W03-5.2

PROJECT NO:

SHEET NO: 179 E



W057-52



NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   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 the nearest quarter mile and optically adjust spacing to achieve proper balance.

* 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	24	1 1/2	3/8	1/2	6	4 1/2	3	4 3/4	14 5/8	10 5/8	11 3/8	2	12													6.0
2S	48	36	2 1/4	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
2M	48	36	2 1/4	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
3	48	36	2 1/4	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
4	48	36	2 1/4	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
5	48	36	2 1/4	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0

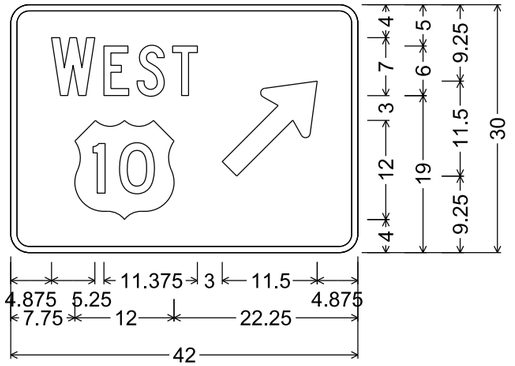
STANDARD SIGN
W057-52

WISCONSIN DEPT OF TRANSPORTATION

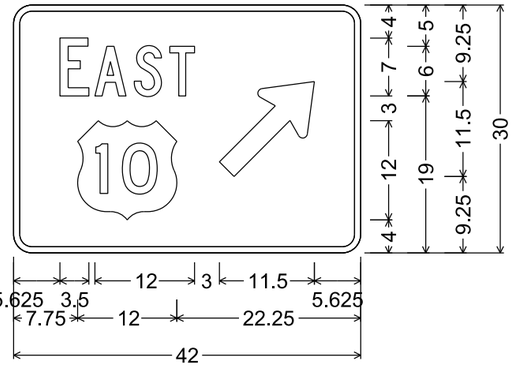
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/1/2024 PLATE NO. W057-52.3

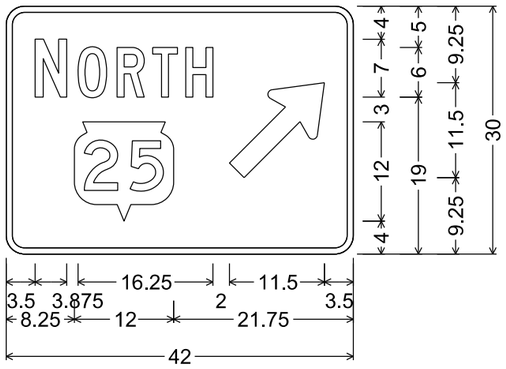
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 180	E



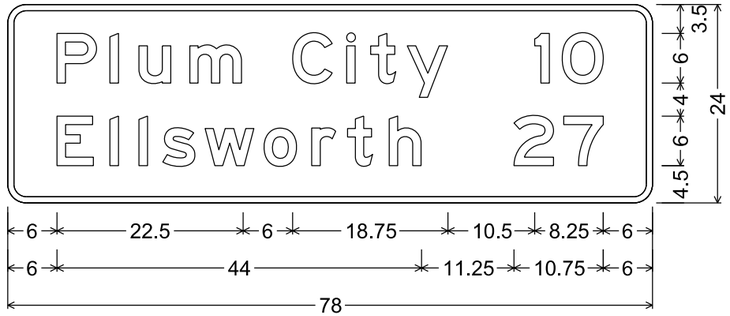
D1-67; 2.250" Radius, 0.750" Border
"WEST", C



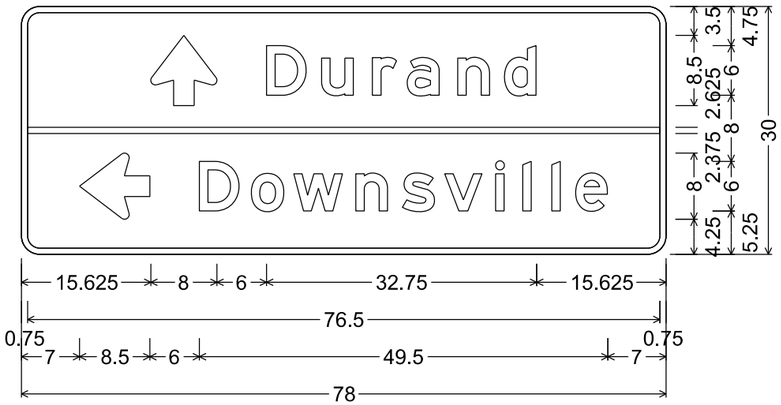
D1-67; 2.250" Radius, 0.750" Border
"EAST", C



D1-67; 2.250" Radius, 0.750" Border
"NORTH", C



D2-2; 2.250" Radius, 0.750" Border



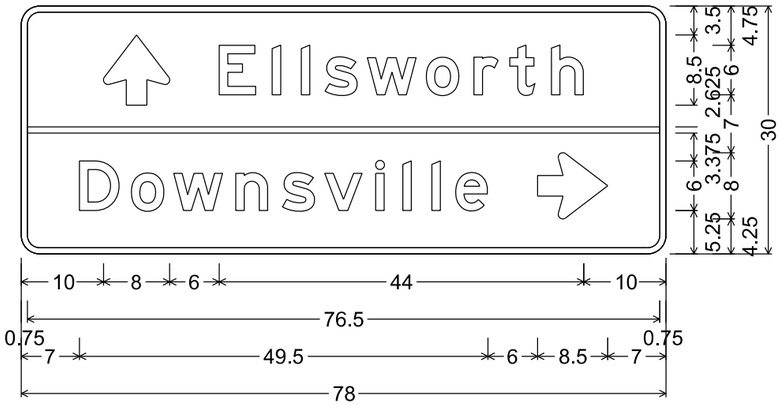
D1-2; 2.250" Radius, 0.750" Border



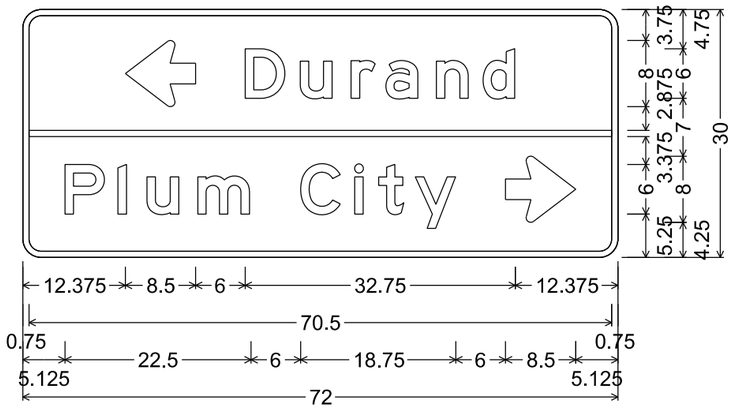
D1-1; 2.250" Radius, 0.750" Border

NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E or as noted



D1-2; 2.250" Radius, 0.750" Border

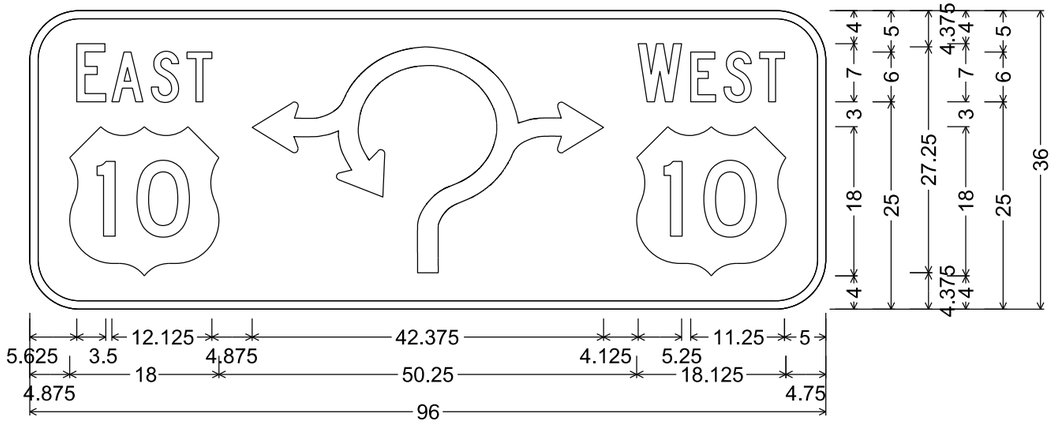


D1-2; 2.250" Radius, 0.750" Border

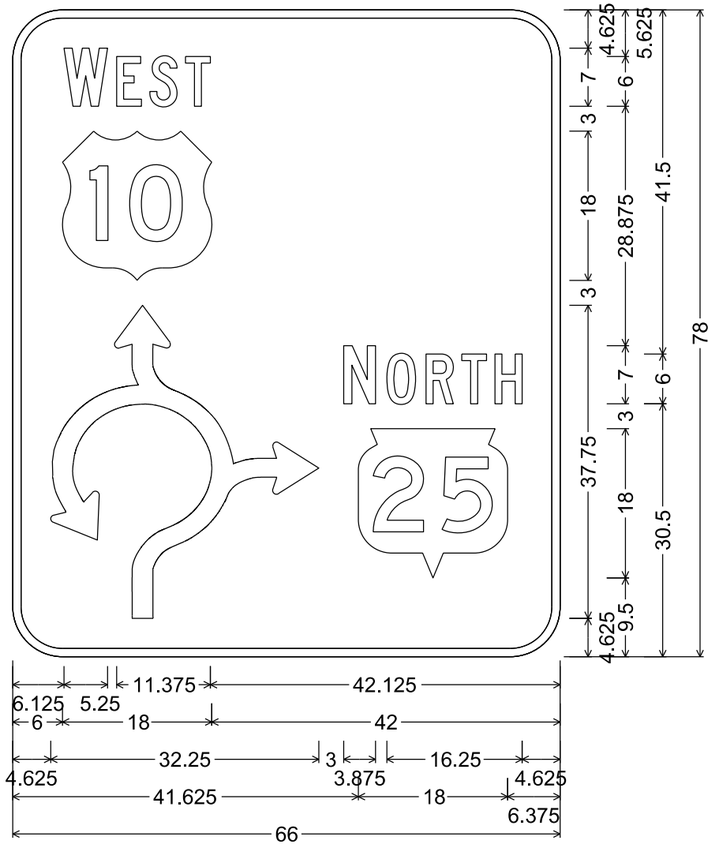
7

7

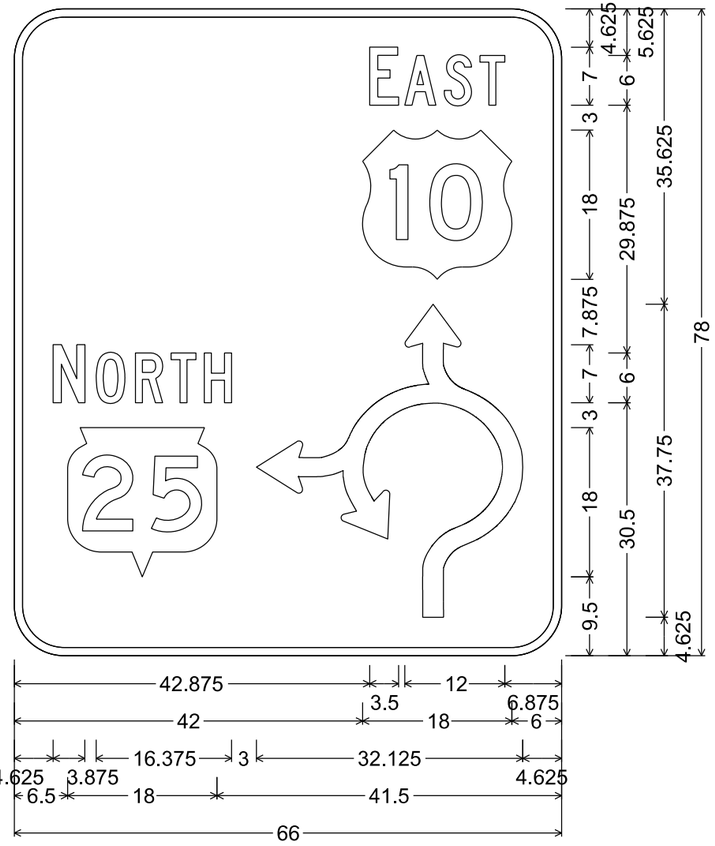
PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	PERMANENT SIGNING	SHEET NO: 181	E



D1-62; 6.000" Radius, 1.000" Border



D1-62; 6.000" Radius, 1.000" Border



D1-62; 6.000" Radius, 1.000" Border

NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - C

7

7

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	PERMANENT SIGNING	SHEET NO: 182	E

USH 10 - TEMP WIDENING - STAGE 1

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
									1.00	1.15	
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 4
371+64	37164.00	0.00	2.83	0.00	1.30	0	0	0	0	0	0
372+00	37200.00	36.00	4.50	0.00	14.50	5	0	11	5	13	-8
372+50	37250.00	50.00	4.57	0.00	21.44	8	0	33	13	51	-38
372+50	37250.00	0.00	4.57	0.00	21.45	0	0	0	13	51	-38
373+00	37300.00	50.00	4.87	0.00	19.53	9	0	38	22	94	-72
373+50	37350.00	50.00	5.24	0.00	11.66	9	0	29	31	128	-97
374+00	37400.00	50.00	4.94	0.00	14.75	9	0	24	40	155	-115
374+50	37450.00	50.00	5.02	0.00	16.77	9	0	29	49	189	-140
375+00	37500.00	50.00	5.40	0.00	14.56	10	0	29	59	222	-163
375+50	37550.00	50.00	6.26	0.00	12.00	11	0	25	70	251	-181
376+00	37600.00	50.00	10.80	0.00	0.00	16	0	11	86	263	-177
376+50	37650.00	50.00	9.32	0.00	0.00	19	0	0	105	263	-158
377+00	37700.00	50.00	7.55	0.00	0.00	16	0	0	121	263	-142
377+36.05	37736.05	36.05	5.00	0.00	0.00	8	0	0	129	263	-134
381+50.00	38,150	0	5	0	0	0	0	0	129	263	-134
382+00	38200.00	50.00	6.12	0.00	1.33	11	0	1	140	265	-125
382+50	38250.00	50.00	7.88	0.00	2.36	13	0	3	153	268	-115
383+00	38300.00	50.00	7.99	0.00	2.90	15	0	5	168	274	-106
383+50	38350.00	50.00	8.11	0.00	2.14	15	0	5	183	279	-96
384+00	38400.00	50.00	15.96	0.00	0.00	22	0	2	205	282	-77
384+50	38450.00	50.00	11.87	0.00	0.00	26	0	0	231	282	-51
385+00	38500.00	50.00	11.04	0.00	0.00	21	0	0	252	282	-30
385+50	38550.00	50.00	11.63	0.00	0.00	21	0	0	273	282	-9
386+00	38600.00	50.00	10.31	0.00	2.24	20	0	2	293	284	9
386+50	38650.00	50.00	10.24	0.00	1.32	19	0	3	312	288	25
387+00	38700.00	50.00	9.48	0.00	2.18	18	0	3	330	291	39
387+50	38750.00	50.00	9.45	0.00	2.62	18	0	4	348	296	52
388+00	38800.00	50.00	10.39	0.00	3.40	18	0	6	366	302	64
388+50	38850.00	50.00	8.48	0.00	4.22	17	0	7	383	311	73
389+00	38900.00	50.00	8.35	0.00	4.40	16	0	8	399	320	79
389+50	38950.00	50.00	8.24	0.00	5.62	15	0	9	414	330	84
390+00	39000.00	50.00	7.67	0.00	6.45	15	0	11	429	343	86
390+04	39004.00	4.00	7.66	0.00	6.06	1	0	1	430	344	86
390+50	39050.00	46.00	7.91	0.00	2.12	13	0	7	443	352	91
391+00	39100.00	50.00	7.51	0.00	0.15	14	0	2	457	354	103
391+25	39125.00	25.00	7.46	0.00	0.00	7	0	0	464	354	110
				TOTALS		**464**	**0**	**308**			

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - MASS ORDINATE	[CUT - (FILL * FILL FACTOR)]

STH 25 - TEMP WIDENING - STAGE 1												
STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)			
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.15	MASS ORDINATE	
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 4	
101+25	10125.00	0.00	10.77	0.00	0.00	0	0	0	0	0	0	
101+33	10133.00	8.00	10.43	0.00	0.00	3	0	0	3	0	3	
101+35	10135.00	2.00	10.37	0.00	0.00	1	0	0	4	0	4	
101+50	10150.00	15.00	9.65	0.00	0.00	6	0	0	10	0	10	
101+50	10151.00	0.00	9.60	0.00	0.00	0	0	0	10	0	10	
102+00	10200.00	49.00	8.27	0.00	0.00	16	0	0	26	0	26	
102+50	10250.00	50.00	8.64	0.00	0.02	16	0	0	42	0	42	
103+00	10300.00	50.00	7.35	0.00	0.73	15	0	1	57	1	56	
103+50	10350.00	50.00	8.45	0.00	0.83	15	0	1	72	2	70	
103+93.00	10393.00	43.00	9.13	0.00	0.31	14	0	1	86	3	83	
104+00	10400.00	7.00	8.97	0.00	0.32	2	0	0	88	3	85	
104+50	10450.00	50.00	8.23	0.00	0.44	16	0	1	104	5	99	
105+00	10500.00	50.00	7.19	0.00	3.11	14	0	3	118	8	110	
105+50	10550.00	50.00	6.92	0.00	5.11	13	0	8	131	17	114	
106+00	10600.00	50.00	6.62	0.00	5.24	13	0	10	144	29	115	
106+35.00	10635.00	35.00	6.73	0.00	4.90	9	0	7	153	37	116	
106+50	10650.00	15.00	6.38	0.00	5.56	4	0	3	157	40	117	
106+51.00	10651.00	1.00	6.36	0.00	5.61	0	0	0	157	40	117	
106+52.00	10652.00	1.00	6.34	0.00	5.65	0	0	0	157	40	117	
106+88.00	10688.00	36.00	6.04	0.00	6.24	8	0	8	165	49	116	
107+00	10700.00	12.00	6.40	0.00	5.15	3	0	3	168	53	115	
107+50	10750.00	50.00	15.86	0.00	0.00	21	0	5	189	59	130	
108+00	10800.00	50.00	7.51	0.00	2.06	22	0	2	211	61	150	
108+50	10850.00	50.00	7.14	0.00	0.12	14	0	2	225	63	162	
109+00	10900.00	50.00	7.52	0.00	0.00	14	0	0	239	63	176	
109+50	10950.00	50.00	7.45	0.00	0.00	14	0	0	253	63	190	
109+72.00	10972.00	22.00	7.59	0.00	0.00	6	0	0	259	63	196	
				TOTALS		259	0	55				

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - MASS ORDINATE	[CUT - (FILL * FILL FACTOR)]

9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	EARTHWORK DATA	SHEET	E

FILE NAME : P:\WIDOT\22028 - USH 10 & STH 25 Intersection\Estimates\090101-ew.ppt PLOT DATE : 7/30/2025 12:01 PM PLOT BY : CBS2 PLOT NAME : PLOT SCALE : 1:1

USH 10 EB - STAGE 2													
STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.15	MASS ORDINATE
							NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 4
372+81.96	37281.96	0.00	11.81	0.00	8.06	0.00	0	0	0	0	0	0
373+00	37300.00	18.04	38.13	0.00	7.34	0.00	17	0	5	17	6	11
373+50	37350.00	50.00	39.73	0.00	7.81	0.00	72	0	14	89	22	67
374+00	37400.00	50.00	41.02	0.00	7.65	0.00	75	0	14	164	38	126
374+50	37450.00	50.00	39.84	0.00	6.65	0.00	75	0	13	239	53	186
375+00	37500.00	50.00	42.03	0.00	12.09	0.00	76	0	17	315	72	243
375+50	37550.00	50.00	39.52	0.00	17.56	0.00	76	0	27	391	104	288
376+00	37600.00	50.00	39.34	0.00	28.15	0.00	73	0	42	464	152	312
376+18.8	37618.82	18.82	0.00	0.00	0.00	0.00	14	0	10	478	163	315
384+95	38495.00	0.00	0.00	0.00	0.00	0.00	0	0	0	478	163	315
385+00	38500.00	5.00	45.70	0.00	0.00	0.00	4	0	0	482	163	319
385+50	38550.00	50.00	48.07	0.00	0.00	0.00	87	0	0	569	163	406
386+00	38600.00	50.00	45.75	0.00	0.05	0.00	87	0	0	656	163	493
386+50	38650.00	50.00	48.83	0.00	0.00	0.00	88	0	0	744	163	581
387+00	38700.00	50.00	47.55	0.00	0.09	0.00	89	0	0	833	163	670
387+50	38750.00	50.00	54.65	0.00	0.00	0.00	95	0	0	928	163	765
388+00	38800.00	50.00	55.44	0.00	0.00	0.00	102	0	0	1,030	163	867
388+50	38850.00	50.00	58.43	0.00	0.00	0.00	105	0	0	1,135	163	972
389+00	38900.00	50.00	50.04	0.00	0.00	0.00	100	0	0	1,235	163	1,072
389+50	38950.00	50.00	47.06	0.00	2.09	0.00	90	0	2	1,325	166	1,159
389+67.483	38967.48	17.48	0.00	0.00	0.00	0.00	15	0	1	1,340	167	1,173
				TOTALS			1,340	77	145			

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - MASS ORDINATE	[CUT - (FILL * FILL FACTOR)]

9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	EARTHWORK DATA	SHEET	E

FILE NAME : P:\WIDOT\22028 - USH 10 & STH 25 Intersection\Estimates\090101-ew.ppt PLOT DATE : 7/30/2025 12:01 PM PLOT BY : CBS2 PLOT NAME : PLOT SCALE : 1:1

USH 10 EB - STAGE 4											
			AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
STATION	REAL STATION	DISTANCE	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	1.00 NOTE 1	1.15	NOTE 4
372+81.96	37281.96	0.00	54.46	0.00	0.00	0	0	0	0	0	0
373+00	37300.00	18.04	55.37	0.00	0.00	37	0	0	37	0	37
373+50	37350.00	50.00	56.81	0.00	0.00	104	0	0	141	0	141
374+00	37400.00	50.00	60.19	0.00	0.00	108	0	0	249	0	249
374+50	37450.00	50.00	63.09	0.00	0.00	114	0	0	363	0	363
375+00	37500.00	50.00	64.24	0.00	0.00	118	0	0	481	0	481
375+50	37550.00	50.00	64.02	0.00	0.00	119	0	0	600	0	600
376+00	37600.00	50.00	78.86	0.00	0.00	132	0	0	732	0	732
376+50	37650.00	50.00	93.71	0.00	0.00	160	0	0	892	0	892
376+75	37675.00	25.00	97.28	0.00	0.00	88	0	0	980	0	980
377+00	37700.00	25.00	100.34	0.00	0.00	91	0	0	1,071	0	1,071
377+50	37750.00	50.00	62.77	0.00	0.00	151	0	0	1,222	0	1,222
378+00	37800.00	50.00	44.05	0.00	0.00	99	0	0	1,321	0	1,321
378+50	37850.00	50.00	41.89	0.00	1.11	80	0	1	1,401	1	1,400
378+67.494	37867.49	17.49	39.40	0.00	2.25	26	0	1	1,427	2	1,425
380+20.039	38020.04	152.55	72.48	0.00	13.00	316	0	43	1,743	52	1,691
380+50	38050.00	29.96	101.66	0.00	13.28	97	0	15	1,840	69	1,771
381+00	38100.00	50.00	88.65	0.00	0.00	176	0	12	2,016	83	1,933
381+50	38150.00	50.00	87.03	0.00	0.00	163	0	0	2,179	83	2,096
382+00	38200.00	50.00	93.06	0.00	0.00	167	0	0	2,346	83	2,263
382+50	38250.00	50.00	94.23	0.00	0.00	173	0	0	2,519	83	2,436
383+00	38300.00	50.00	85.63	0.00	0.00	167	0	0	2,686	83	2,603
383+50	38350.00	50.00	75.16	0.00	0.00	149	0	0	2,835	83	2,752
384+00	38400.00	50.00	108.44	0.00	0.00	170	0	0	3,005	83	2,922
384+50	38450.00	50.00	66.98	0.00	0.00	162	0	0	3,167	83	3,084
385+00	38500.00	50.00	59.92	0.00	0.00	117	0	0	3,284	83	3,201
385+50	38550.00	50.00	61.07	0.00	0.00	112	0	0	3,396	83	3,313
386+00	38600.00	50.00	56.29	0.00	0.00	109	0	0	3,505	83	3,422
386+50	38650.00	50.00	60.83	0.00	0.00	108	0	0	3,613	83	3,530
387+00	38700.00	50.00	58.97	0.00	0.00	111	0	0	3,724	83	3,641
387+50	38750.00	50.00	57.24	0.00	0.00	108	0	0	3,832	83	3,749
388+00	38800.00	50.00	55.85	0.00	0.00	105	0	0	3,937	83	3,854
388+50	38850.00	50.00	61.51	0.00	0.00	109	0	0	4,046	83	3,963
389+00	38900.00	50.00	66.60	0.00	0.00	119	0	0	4,165	83	4,082
389+50	38950.00	50.00	61.32	0.00	0.00	118	0	0	4,283	83	4,200
389+67.483	38967.48	17.48	0.00	0.00	0.00	20	0	0	4,303	83	4,220
				TOTALS		4,303	956	72			

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - MASS ORDINATE	[CUT - (FILL * FILL FACTOR)]

USH 10 WB - STAGE 2												
STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	1.00 NOTE 1	1.15	NOTE 4
376+23.369	37623.37	0.00	14.96	0.00	29.51	0	0	0	0	0	0
376+50	37650.00	26.63	14.01	0.00	26.96	14	0	28	14	32	-18
377+00	37700.00	50.00	14.14	0.00	24.34	26	0	48	40	87	-47
377+50	37750.00	50.00	20.79	0.00	28.46	32	0	49	72	144	-72
378+00	37800.00	50.00	29.79	0.00	33.44	47	0	57	119	209	-90
378+50	37850.00	50.00	28.47	0.00	68.68	54	0	95	173	319	-146
378+73.013	37873.01	23.01	25.18	0.00	98.60	23	0	71	196	400	-204
380+28.681	38028.68	155.67	19.03	0.00	40.18	127	0	400	323	860	-537
380+50	38050.00	21.32	32.79	0.00	31.41	20	0	28	343	892	-549
381+00	38100.00	50.00	40.51	0.00	1.35	68	0	30	411	927	-516
381+50	38150.00	50.00	39.73	0.00	0.05	74	0	1	485	928	-443
382+00	38200.00	50.00	122.17	0.00	0.00	150	0	0	635	928	-293
382+50	38250.00	50.00	89.43	0.00	0.00	196	0	0	831	928	-97
383+00	38300.00	50.00	63.71	0.00	0.00	142	0	0	973	928	45
383+50	38350.00	50.00	54.84	0.00	0.00	110	0	0	1,083	928	155
384+00	38400.00	50.00	44.01	0.00	0.00	92	0	0	1,175	928	247
384+50	38450.00	50.00	34.71	0.00	0.44	73	0	0	1,248	928	320
384+95.494	38495.49	45.49	27.03	0.00	0.00	52	0	0	1,300	928	372
				TOTALS		1,300	0	807			

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - MASS ORDINATE	[CUT - (FILL * FILL FACTOR)]

USH 10 WB - STAGE 3												
STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)			
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.15	MASS ORDINATE	
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 4	
376+23.369	37623.37	0.00	4.26	0.00	0.00	0	0	0	0	0	0	
376+50	37650.00	26.63	4.05	0.00	0.00	4	0	0	4	0	4	
377+00	37700.00	50.00	4.10	0.00	0.00	8	0	0	12	0	12	
377+50	37750.00	50.00	4.50	0.00	0.00	8	0	0	20	0	20	
378+00	37800.00	50.00	1.35	0.00	2.48	5	0	2	25	2	23	
378+50	37850.00	50.00	0.08	0.00	19.71	1	0	21	26	26	0	
378+73.013	37873.01	23.01	0.00	0.00	8.76	0	0	12	26	40	-14	
380+28.681	38028.68	155.67	0.00	0.00	0.00	0	0	25	26	69	-43	
380+50	38050.00	21.32	0.00	0.00	0.00	0	0	0	26	69	-43	
381+00	38100.00	50.00	0.00	0.00	0.00	0	0	0	26	69	-43	
381+50	38150.00	50.00	0.00	0.00	0.00	0	0	0	26	69	-43	
382+00	38200.00	50.00	0.00	0.00	0.00	0	0	0	26	69	-43	
382+50	38250.00	50.00	0.00	0.00	0.00	0	0	0	26	69	-43	
383+00	38300.00	50.00	0.00	0.00	0.00	0	0	0	26	69	-43	
383+50	38350.00	50.00	0.00	0.00	0.00	0	0	0	26	69	-43	
384+00	38400.00	50.00	0.00	0.00	0.00	0	0	0	26	69	-43	
384+50	38450.00	50.00	0.00	0.00	0.00	0	0	0	26	69	-43	
384+95.494	38495.49	45.49	0.00	0.00	0.00	0	0	0	26	69	-43	
				TOTALS		26	0	60				

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - MASS ORDINATE	[CUT - (FILL * FILL FACTOR)]

9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	EARTHWORK DATA	SHEET	E

FILE NAME : P:\WIDOT\22028 - USH 10 & STH 25 Intersection\Estimates\090101-ew.ppt
PLOT DATE : 7/30/2025 12:01 PM
PLOT BY : CBS2
PLOT NAME :
PLOT SCALE : 1:1

USH 10 WB - STAGE 4												
STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)			
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE	
						NOTE 1	NOTE 2	NOTE 3	1.00 NOTE 1	1.15	NOTE 4	
376+23.369	37623.37	0.00	0.00	0.00	0.00	0	0	0	0	0	0	
376+50	37650.00	26.63	0.00	0.00	0.00	0	0	0	0	0	0	
377+00	37700.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0	
377+50	37750.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0	
378+00	37800.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0	
378+50	37850.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0	
378+73.013	37873.01	23.01	0.00	0.00	0.00	0	0	0	0	0	0	
380+28.681	38028.68	155.67	4.52	0.00	0.00	13	0	0	13	0	13	
380+50	38050.00	21.32	5.63	0.00	0.00	4	0	0	17	0	17	
381+00	38100.00	50.00	8.60	0.00	0.00	13	0	0	30	0	30	
381+50	38150.00	50.00	10.96	0.00	0.00	18	0	0	48	0	48	
382+00	38200.00	50.00	7.63	0.00	0.00	17	0	0	65	0	65	
382+50	38250.00	50.00	7.56	0.00	0.00	14	0	0	79	0	79	
383+00	38300.00	50.00	7.09	0.00	0.00	14	0	0	93	0	93	
383+50	38350.00	50.00	6.83	0.00	0.00	13	0	0	106	0	106	
384+00	38400.00	50.00	6.41	0.00	0.00	12	0	0	118	0	118	
384+50	38450.00	50.00	5.80	0.00	0.00	11	0	0	129	0	129	
384+95.494	38495.49	45.49	7.24	0.00	0.00	11	0	0	140	0	140	
				TOTALS		140	0	0				

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - MASS ORDINATE	[CUT - (FILL * FILL FACTOR)]

STH 25NB - STAGE 2												
STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)			
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.15	MASS ORDINATE	
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 4	
99+07.703	9907.70	0.00	0.00	0.00	0.00	0	0	0	0	0	0	
99+41.009	9941.01	33.31	0.00	0.00	0.00	0	0	0	0	0	0	
100+95	10095.00	153.99	0.05	0.00	37.87	0	0	108	0	124	-124	
101+00	10100.00	5.00	0.00	0.00	32.11	0	0	6	0	131	-131	
101+44.405	10144.41	44.41	0.00	0.00	17.28	0	0	41	0	178	-178	
101+50	10150.00	5.59	0.00	0.00	14.31	0	0	3	0	182	-182	
102+00	10200.00	50.00	13.05	0.00	28.41	12	0	40	12	228	-216	
102+50	10250.00	50.00	26.09	0.00	13.96	36	0	39	48	273	-225	
103+00	10300.00	50.00	32.57	0.00	9.48	54	0	22	102	298	-196	
103+37.705	10337.71	37.71	38.51	0.00	5.79	50	0	11	152	311	-159	
				TOTALS		152	58	270				

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - MASS ORDINATE	[CUT - (FILL * FILL FACTOR)]

9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	EARTHWORK DATA	SHEET 190	E

FILE NAME : P:\WIDOT\22028 - USH 10 & STH 25 Intersection\Estimates\090101-ew.ppt PLOT DATE : 7/30/2025 12:01 PM PLOT BY : CBS2 PLOT NAME : PLOT SCALE : 1:1

STH 25 NB - STAGE 3												
STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)			
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.15		MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1			NOTE 4
100+95	10095.00	0.00	0.00	0.00	14.88	0	0	0	0	0		0
101+00	10100.00	5.00	0.00	0.00	11.51	0	0	2	0	2		-2
101+44.405	10144.41	44.41	0.00	0.00	0.00	0	0	9	0	13		-13
				TOTALS		0	0	11				

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - MASS ORDINATE	[CUT - (FILL * FILL FACTOR)]

9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	EARTHWORK DATA	SHEET	E

FILE NAME : P:\WIDOT\22028 - USH 10 & STH 25 Intersection\Estimates\090101-ew.ppt PLOT DATE : 7/30/2025 12:01 PM PLOT BY : CBS2 PLOT NAME : PLOT SCALE : 1:1

STH 25 NB - STAGE 4												
STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)			
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE	
						NOTE 1	NOTE 2	NOTE 3	1.00 NOTE 1	1.15	NOTE 4	
99+07.703	9907.70	0.00	27.04	0.00	33.94	0	0	0	0	0	0	
99+41.009	9941.01	33.31	24.53	0.00	92.34	32	0	78	32	90	-58	
100+95	10095.00	153.99	0.00	0.00	0.00	70	0	263	102	392	-290	
101+00	10100.00	5.00	0.00	0.00	0.00	0	0	0	102	392	-290	
101+44.405	10144.41	44.41	0.00	0.00	0.96	0	0	1	102	393	-291	
101+50	10150.00	5.59	0.00	0.00	0.96	0	0	0	102	393	-291	
102+00	10200.00	50.00	0.41	0.00	0.00	0	0	1	102	394	-292	
102+50	10250.00	50.00	2.47	0.00	0.00	3	0	0	105	394	-289	
103+00	10300.00	50.00	3.82	0.00	0.00	6	0	0	111	394	-283	
103+37.705	10337.71	37.71	3.45	0.00	0.00	5	0	0	116	394	-278	
				TOTALS		116	0	343				

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - MASS ORDINATE	[CUT - (FILL * FILL FACTOR)]

9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	EARTHWORK DATA	SHEET	E

FILE NAME : P:\WIDOT\22028 - USH 10 & STH 25 Intersection\Estimates\090101-ew.ppt
PLOT DATE : 7/30/2025 12:01 PM
PLOT BY : CBS2
PLOT NAME :
PLOT SCALE : 1:1

STH 25 SB - STAGE 2											
STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	1.00 NOTE 1	1.15	NOTE 4
98+50	9850.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0
99+00	9900.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
99+34.697	9934.70	34.70	0.00	0.00	0.00	0	0	0	0	0	0
100+93.545	10093.54	158.85	0.00	0.00	94.28	0	0	277	0	319	-319
101+00	10100.00	6.46	0.00	0.00	0.00	0	0	11	0	331	-331
101+50	10150.00	50.00	0.00	0.00	0.00	0	0	0	0	331	-331
102+00	10200.00	50.00	0.00	0.00	0.00	0	0	0	0	331	-331
102+50	10250.00	50.00	0.00	0.00	0.00	0	0	0	0	331	-331
103+00	10300.00	50.00	0.00	0.00	0.00	0	0	0	0	331	-331
103+50	10350.00	50.00	55.95	0.00	5.17	52	0	5	52	337	-285
104+00	10400.00	50.00	56.88	0.00	3.80	104	0	8	156	346	-190
104+50	10450.00	50.00	45.82	0.00	4.51	95	0	8	251	355	-104
105+00	10500.00	50.00	44.32	0.00	5.94	83	0	10	334	367	-33
105+50	10550.00	50.00	43.73	0.00	4.47	82	0	10	416	378	38
106+00	10600.00	50.00	42.24	0.00	3.69	80	0	8	496	388	108
106+50	10650.00	50.00	42.14	0.00	1.16	78	0	4	574	392	182
107+00	10700.00	50.00	43.56	0.00	0.04	79	0	1	653	393	260
107+50	10750.00	50.00	43.17	0.00	0.02	80	0	0	733	393	340
108+00	10800.00	50.00	41.47	0.00	0.17	78	0	0	811	393	418
108+02	10802.00	2.00	41.43	0.00	0.19	3	0	0	814	393	421
				TOTALS		814	194	342			

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - MASS ORDINATE	[CUT - (FILL * FILL FACTOR)]

STH 25 SB- STAGE 3													
STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)				
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.15		MASS ORDINATE	
						NOTE 1	NOTE 2	NOTE 3	NOTE 1			NOTE 4	
100+86.71	10086.71	0.00	0.00	0.00	0.00	0	0	0	0	0		0	
100+93.545	10093.54	6.83	0.00	0.00	9.94	0	0	1	0	0		0	
101+00	10100.00	6.46	0.00	0.00	0.09	0	0	1	0	0		0	
				TOTALS		0	0	2					

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - MASS ORDINATE	[CUT - (FILL * FILL FACTOR)]

STH 25 SB - STAGE 4												
STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)			
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.15	MASS ORDINATE	
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 4	
98+50	9850.00	0.00	54.71	0.00	0.00	0	0	0	0	0	0	
99+00	9900.00	50.00	74.59	0.00	33.04	120	0	31	120	36	84	
99+34.697	9934.70	34.70	3.49	0.00	63.63	50	0	62	170	107	63	
100+93.545	10093.54	158.85	24.42	0.00	37.92	82	0	299	252	451	-199	
101+00	10100.00	6.46	24.52	0.00	31.87	6	0	8	258	460	-202	
101+50	10150.00	50.00	64.93	0.00	10.27	83	0	39	341	505	-164	
102+00	10200.00	50.00	86.45	0.00	0.03	140	0	10	481	516	-35	
102+50	10250.00	50.00	89.52	0.00	0.00	163	0	0	644	516	128	
103+00	10300.00	50.00	91.87	0.00	0.00	168	0	0	812	516	296	
103+50	10350.00	50.00	78.53	0.00	0.00	158	0	0	970	516	454	
104+00	10400.00	50.00	78.92	0.00	0.00	146	0	0	1,116	516	600	
104+50	10450.00	50.00	80.69	0.00	0.00	148	0	0	1,264	516	748	
105+00	10500.00	50.00	73.86	0.00	0.00	143	0	0	1,407	516	891	
105+50	10550.00	50.00	69.22	0.00	0.00	132	0	0	1,539	516	1,023	
106+00	10600.00	50.00	60.63	0.00	0.04	120	0	0	1,659	516	1,143	
106+50	10650.00	50.00	59.13	0.00	0.19	111	0	0	1,770	516	1,254	
107+00	10700.00	50.00	59.75	0.00	0.00	110	0	0	1,880	516	1,364	
107+50	10750.00	50.00	63.35	0.00	0.00	114	0	0	1,994	516	1,478	
108+00	10800.00	50.00	55.26	0.00	0.04	110	0	0	2,104	516	1,588	
108+02	10802.00	2.00	55.40	0.00	0.00	4	0	0	2,108	516	1,592	
				TOTALS		2,108	503	449				

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - MASS ORDINATE	[CUT - (FILL * FILL FACTOR)]

STH 10/25 RAB - STAGE 2												
			AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED			CUMULATIVE VOL (CY)			
STATION	REAL STATION	DISTANCE	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT EXPANDED FILL 1.00	1.15	MASS ORDINATE	
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 4	
11+27.106	1127.11	0.00	0.00	0.00	0.00	0	0	0	0	0	0	
11+31.075	1131.08	3.97	4.31	0.00	0.00	0	0	0	0	0	0	
11+36.736	1136.74	5.66	25.08	0.00	0.00	3	0	0	3	0	3	
11+42.39	1142.39	5.65	13.69	0.00	0.38	4	0	0	7	0	7	
11+50	1150.00	7.61	3.59	0.00	19.26	2	0	3	9	3	6	
11+75.26	1175.26	25.26	0.31	0.00	69.53	2	0	42	11	52	-41	
11+80.12	1180.12	4.86	0.12	0.00	35.89	0	0	9	11	62	-51	
11+93.818	1193.82	13.70	0.08	0.00	6.95	0	0	11	11	75	-64	
12+00	1200.00	6.18	0.00	0.00	0.00	0	0	1	11	76	-65	
12+10.277	1210.28	10.28	0.00	0.00	0.00	0	0	0	11	76	-65	
12+14.197	1214.20	3.92	0.00	0.00	0.00	0	0	0	11	76	-65	
12+26.176	1226.18	11.98	0.00	0.00	0.00	0	0	0	11	76	-65	
12+46.3	1246.37	20.19	0.00	0.00	0.00	0	0	0	11	76	-65	
12+49.4	1249.41	3.04	24.46	0.00	89.78	1	0	5	12	82	-70	
12+61.34	1261.34	11.93	0.00	0.00	11.76	5	0	22	17	107	-90	
12+72.71	1272.71	11.37	0.00	0.00	0.00	0	0	2	17	109	-92	
				TOTALS		17	0	95				

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - MASS ORDINATE	[CUT - (FILL * FILL FACTOR)]

STH 10/25 RAB - STAGE 3												
STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)			
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.15	MASS ORDINATE	
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 4	
11+71	1171.15	0.00	0.00	0.00	0.00	0	0	0	0	0	0	
11+75.26	1175.26	4.11	0.04	0.00	2.78	0	0	0	0	0	0	
11+80.12	1180.12	4.86	0.00	0.00	4.30	0	0	1	0	1	-1	
11+93.818	1193.82	13.70	0.08	0.00	27.31	0	0	8	0	10	-10	
12+00	1200.00	6.18	0.00	0.00	30.00	0	0	7	0	18	-18	
12+10.277	1210.28	10.28	0.00	0.00	27.01	0	0	11	0	31	-31	
12+14.197	1214.20	3.92	0.00	0.00	26.48	0	0	4	0	36	-36	
12+26.176	1226.18	11.98	0.00	0.00	32.64	0	0	13	0	51	-51	
12+46.3	1246.37	20.19	0.00	0.00	50.69	0	0	31	0	86	-86	
12+50	1250.00	3.63	0.00	0.00	53.67	0	0	7	0	94	-94	
12+61.34	1261.34	11.34	0.14	0.00	48.91	0	0	22	0	120	-120	
12+76.975	1276.98	15.64	3.15	0.00	13.69	1	0	18	1	140	-139	
12+96.635	1296.63	19.66	15.06	0.00	0.00	7	0	5	8	146	-138	
13+00	1300.00	3.37	0.00	0.00	0.00	1	0	0	9	146	-137	
				TOTALS		9	9	127				

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - MASS ORDINATE	[CUT - (FILL * FILL FACTOR)]

STH 10/25 RAB - STAGE 4												
STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
									1.00	1.15	
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 4
10+00.01	1000.01	0.00	54.66	0.00	46.77	0	0	0	0	0	0
10+08.4	1008.40	8.39	46.89	0.00	60.92	16	0	17	16	20	-4
10+22.5	1022.50	14.10	43.95	0.00	53.36	24	0	30	40	54	-14
10+38.978	1038.98	16.48	47.53	0.00	0.69	28	0	16	68	72	-4
10+50	1050.00	11.02	47.21	0.00	0.02	19	0	0	87	72	15
10+52.74	1052.74	2.74	42.86	0.00	1.18	5	0	0	92	72	20
10+67.501	1067.50	14.76	44.61	0.00	19.92	24	0	6	116	79	37
10+95	1095.00	27.50	141.48	0.00	15.43	95	0	18	211	100	111
11+00	1100.00	5.00	85.95	0.00	0.00	21	0	1	232	101	131
11+10.772	1110.77	10.77	75.30	0.00	0.00	32	0	0	264	101	163
11+27.106	1127.11	16.33	51.79	0.00	0.00	38	0	0	302	101	201
11+31.075	1131.08	3.97	42.65	0.00	0.00	7	0	0	309	101	208
11+36.736	1136.74	5.66	0.00	0.00	0.00	4	0	0	313	101	212
12+10.277	1210.28	0.00	0.00	0.00	0.00	0	0	0	313	101	212
12+14.197	1214.20	3.92	62.09	0.00	3.88	5	0	0	318	101	217
12+26.176	1226.18	11.98	0.00	0.00	4.04	14	0	2	332	104	229
12+46.3	1246.37	20.19	29.80	0.00	92.35	11	0	36	343	145	198
12+49.41	1249.41	3.04	0.00	0.00	0.00	2	0	5	345	151	194
12+61.34	1261.34	11.93	0.00	0.00	0.00	0	0	0	345	151	194
12+76.975	1276.98	0.00	0.00	0.00	0.00	0	0	0	345	151	194
12+96.635	1296.63	19.66	27.01	0.00	0.00	10	0	0	355	151	204
13+00	1300.00	3.37	35.39	0.00	0.00	4	0	0	359	151	208
13+11.924	1311.92	11.92	61.34	0.00	0.00	21	0	0	380	151	229
13+30	1330.00	18.08	59.02	0.00	35.74	40	0	12	420	164	256
				TOTALS		420	0	143			

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - MASS ORDINATE	[CUT - (FILL * FILL FACTOR)]

9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	EARTHWORK DATA	SHEET	E

FILE NAME : P:\WIDOT\22028 - USH 10 & STH 25 Intersection\Estimates\090101-ew.ppt PLOT DATE : 7/30/2025 12:01 PM PLOT BY : CBS2 PLOT NAME : PLOT SCALE : 1:1

USH 10 WB TEMP WIDENING REMOVAL - STAGE 5											
STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
									1.00	1.15	
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 4
371+45	37145.00	0.00	2.54	0.00	0.00	0	0	0	0	0	0
371+50	37150.00	5.00	3.75	0.00	0.00	1	0	0	1	0	1
372+00	37200.00	50.00	14.71	0.00	0.00	17	0	0	18	0	18
372+50	37250.00	0.00	28.77	0.00	0.00	0	0	0	18	0	18
373+00	37300.00	50.00	27.00	0.00	0.00	52	0	0	70	0	70
373+50	37350.00	50.00	18.41	0.00	0.00	42	0	0	112	0	112
374+00	37400.00	50.00	9.02	0.00	0.00	25	0	0	137	0	137
374+50	37450.00	50.00	3.60	0.00	0.00	12	0	0	149	0	149
375+00	37500.00	50.00	2.68	0.00	0.00	6	0	0	155	0	155
375+50	37550.00	50.00	2.68	0.00	0.00	5	0	0	160	0	160
376+00	37600.00	50.00	2.74	0.00	0.00	5	0	0	165	0	165
376+50	37650.00	50.00	2.56	0.00	0.69	5	0	1	170	1	169
377+00	37700.00	50.00	2.62	0.00	2.77	5	0	3	175	5	170
377+50	37750.00	50.00	0.20	0.00	7.33	3	0	9	178	15	163
377+72	37772.00	22.00	0.16	0.00	9.86	0	0	7	178	23	155
				TOTALS		178	65	20			

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - MASS ORDINATE	[CUT - (FILL * FILL FACTOR)]

9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	EARTHWORK DATA	SHEET	E

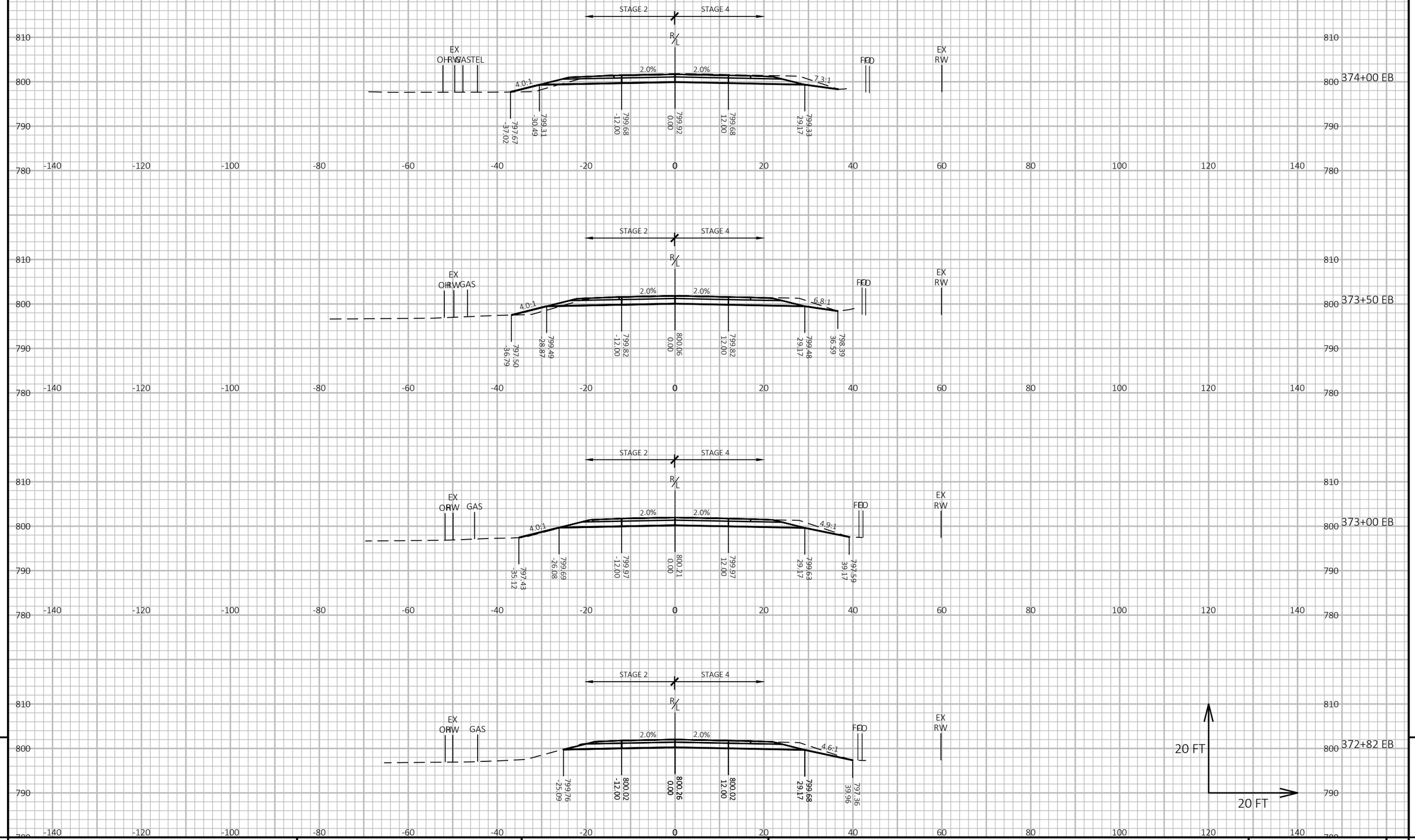
FILE NAME : P:\WIDOT\22028 - USH 10 & STH 25 Intersection\Estimates\090101-ew.ppt PLOT DATE : 7/30/2025 12:01 PM PLOT BY : CBS2 PLOT NAME : PLOT SCALE : 1:1

STH 10 WB TEMP WIDENING REMOVAL - STAGE 5												
STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)			
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.15	MASS ORDINATE	
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 4	
381+71.00	38170.75	0.00	1.69	0.00	0.28	0	0	0	0	0	0	
382+00	38200.00	29.25	7.98	0.00	0.00	5	0	0	5	0	5	
382+50	38250.00	50.00	2.21	0.00	0.00	9	0	0	14	0	14	
383+00	38300.00	50.00	1.61	0.00	0.00	4	0	0	18	0	18	
383+50	38350.00	50.00	15.16	0.00	0.00	16	0	0	34	0	34	
384+00	38400.00	50.00	11.82	0.00	0.00	25	0	0	59	0	59	
384+50	38450.00	50.00	9.20	0.00	0.00	19	0	0	78	0	78	
385+00	38500.00	50.00	7.27	0.00	0.00	15	0	0	93	0	93	
385+50	38550.00	50.00	6.53	0.00	0.00	13	0	0	106	0	106	
386+00	38600.00	50.00	6.83	0.00	0.00	12	0	0	118	0	118	
386+50	38650.00	50.00	7.40	0.00	0.00	13	0	0	131	0	131	
387+00	38700.00	50.00	9.33	0.00	0.00	15	0	0	146	0	146	
387+50	38750.00	50.00	12.46	0.00	0.00	20	0	0	166	0	166	
388+00	38800.00	50.00	14.85	0.00	0.00	25	0	0	191	0	191	
388+50	38850.00	50.00	15.43	0.00	0.00	28	0	0	219	0	219	
389+00	38900.00	50.00	14.15	0.00	0.05	27	0	0	246	0	246	
389+50	38950.00	50.00	11.93	0.00	0.00	24	0	0	270	0	270	
390+00	39000.00	50.00	9.60	0.00	0.00	20	0	0	290	0	290	
390+50	39050.00	50.00	7.73	0.00	0.00	16	0	0	306	0	306	
391+00	39100.00	50.00	6.13	0.00	0.00	13	0	0	319	0	319	
391+50	39150.00	50.00	2.81	0.00	0.00	8	0	0	327	0	327	
				TOTALS		330	237	0				

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - MASS ORDINATE	[CUT - (FILL * FILL FACTOR)]

STH 25 NB TEMP WIDENING REMOVAL- STAGE 5												
STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)			
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT	FILL	CUT	EXPANDED FILL	MASS ORDINATE	
						NOTE 1	NOTE 2	NOTE 3	1.00 NOTE 1	1.15	NOTE 4	
102+00.00	10200.00	0.00	5.33	0.00	0.00	0	0	0	0	0	0	
102+50	10250.00	50.00	2.65	0.00	0.00	7	0	0	7	0	7	
103+00	10300.00	50.00	2.65	0.00	0.00	5	0	0	12	0	12	
103+50	10350.00	50.00	2.64	0.00	0.00	5	0	0	17	0	17	
104+00	10400.00	50.00	2.68	0.00	0.00	5	0	0	22	0	22	
104+50	10450.00	50.00	2.71	0.00	0.00	5	0	0	27	0	27	
105+00	10500.00	50.00	2.68	0.00	0.00	5	0	0	32	0	32	
105+50	10550.00	50.00	2.67	0.00	0.00	5	0	0	37	0	37	
106+00	10600.00	50.00	2.67	0.00	0.00	5	0	0	42	0	42	
106+50	10650.00	50.00	2.69	0.00	0.00	5	0	0	47	0	47	
107+00	10700.00	50.00	2.65	0.00	0.00	5	0	0	52	0	52	
107+50	10750.00	50.00	2.65	0.00	0.00	5	0	0	57	0	57	
108+00	10800.00	50.00	2.65	0.00	0.00	5	0	0	62	0	62	
108+50	10850.00	50.00	5.79	0.00	0.00	8	0	0	70	0	70	
108+89.00	10889.00	39.00	5.20	0.00	0.00	8	0	0	78	0	78	
				TOTALS		78	60	0				

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - MASS ORDINATE	[CUT - (FILL * FILL FACTOR)]



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: USH 10 EB	SHEET 202	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS.DWG
LAYOUT NAME - 01

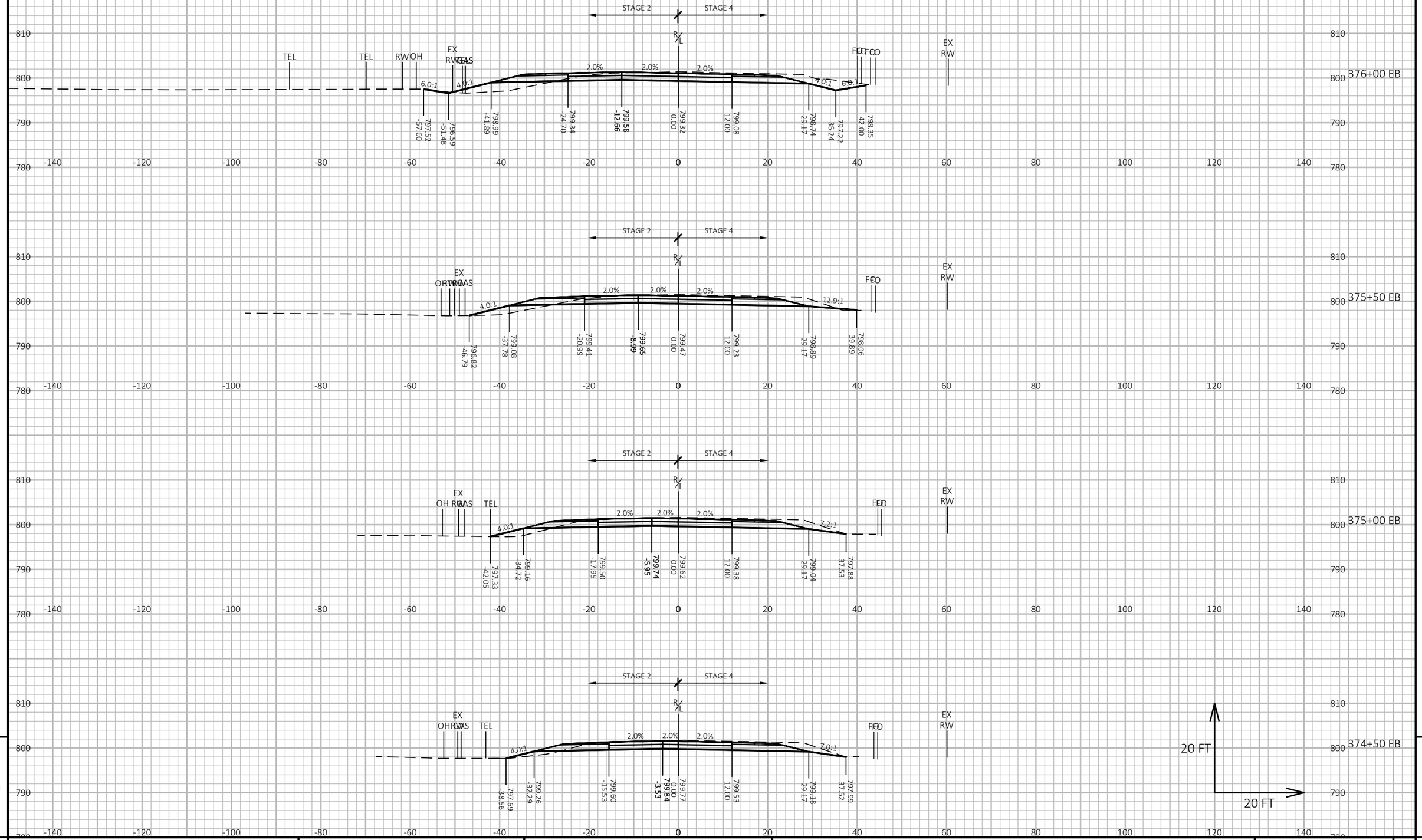
PLOT DATE : 8/1/2025 8:00 AM

PLOT BY : CORY IHDE

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: USH 10 EB	SHEET 203	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS.DWG
LAYOUT NAME - 02

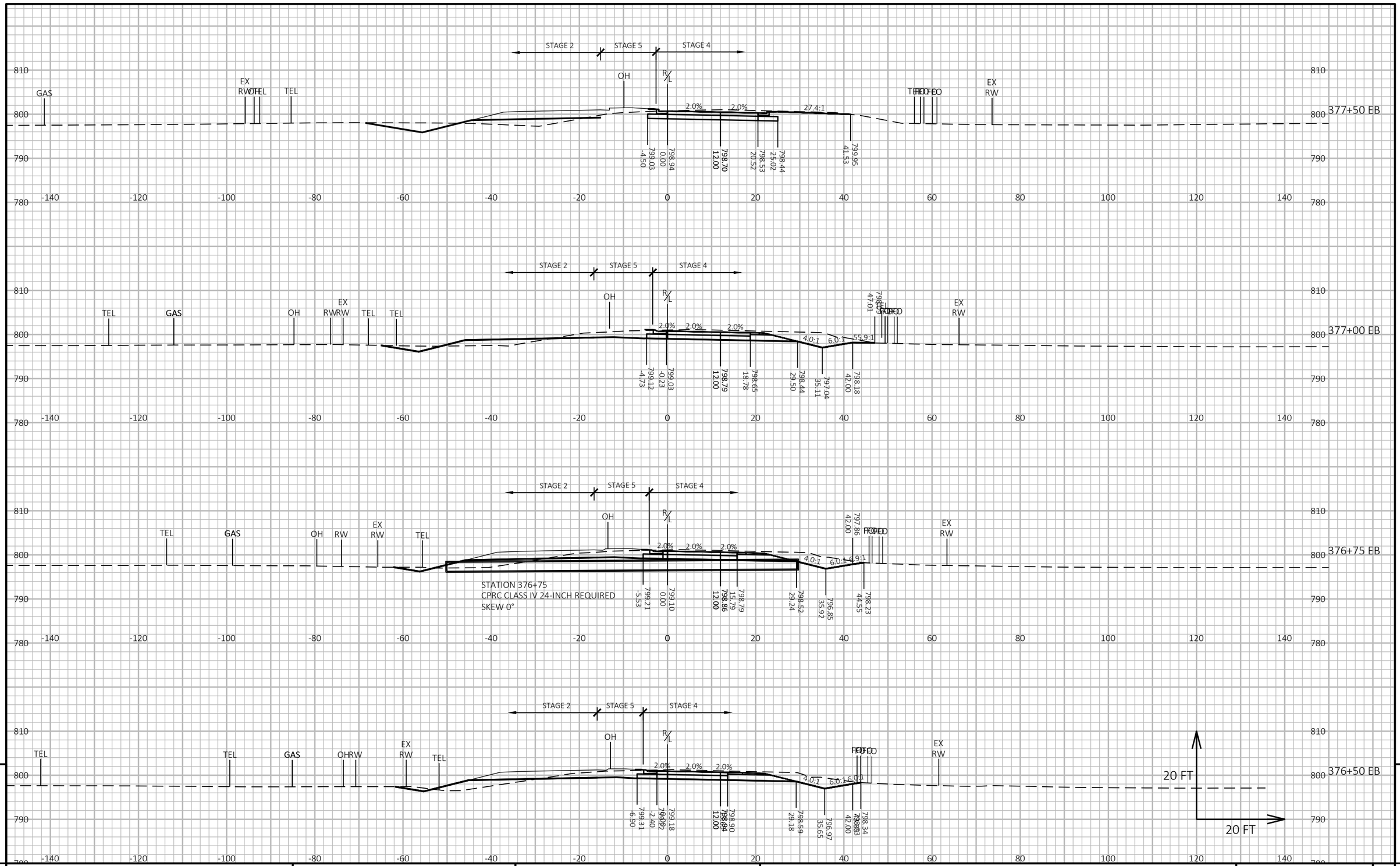
PLOT DATE : 8/1/2025 8:00 AM

PLOT BY : CORY IHDE

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: USH 10 EB	SHEET 204	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS.DWG
LAYOUT NAME - 03

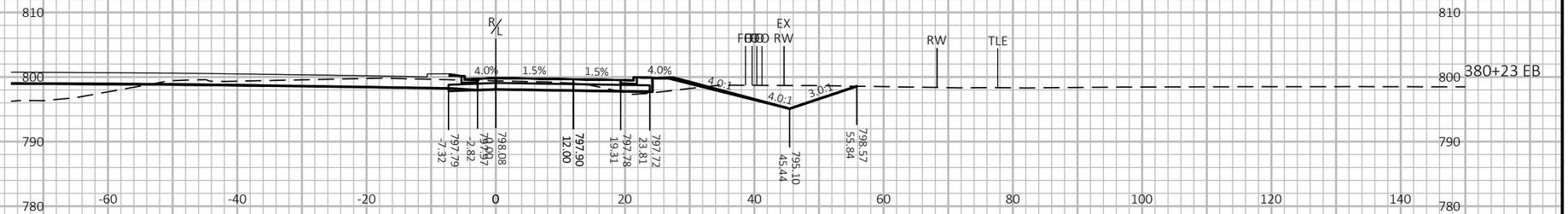
PLOT DATE : 8/1/2025 8:00 AM

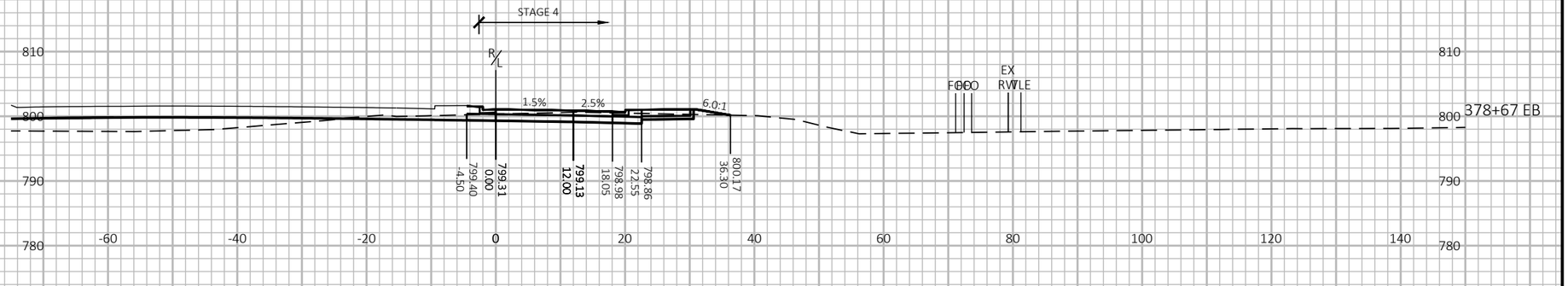
PLOT BY : CORY IHDE

PLOT NAME :

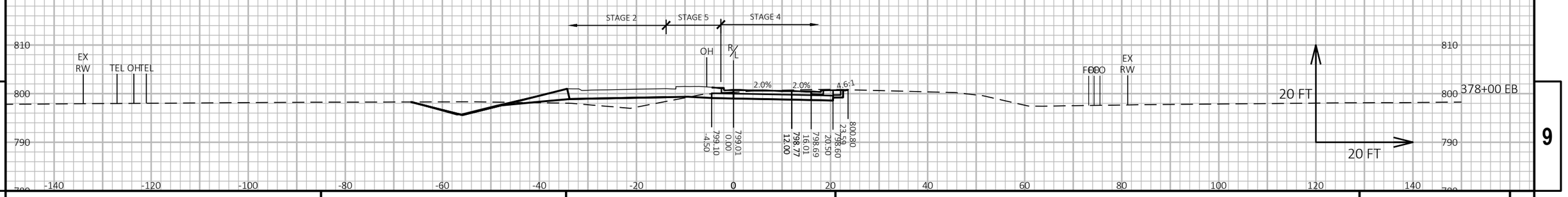
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49









9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: USH 10 EB	SHEET 205	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS.DWG
LAYOUT NAME - 04

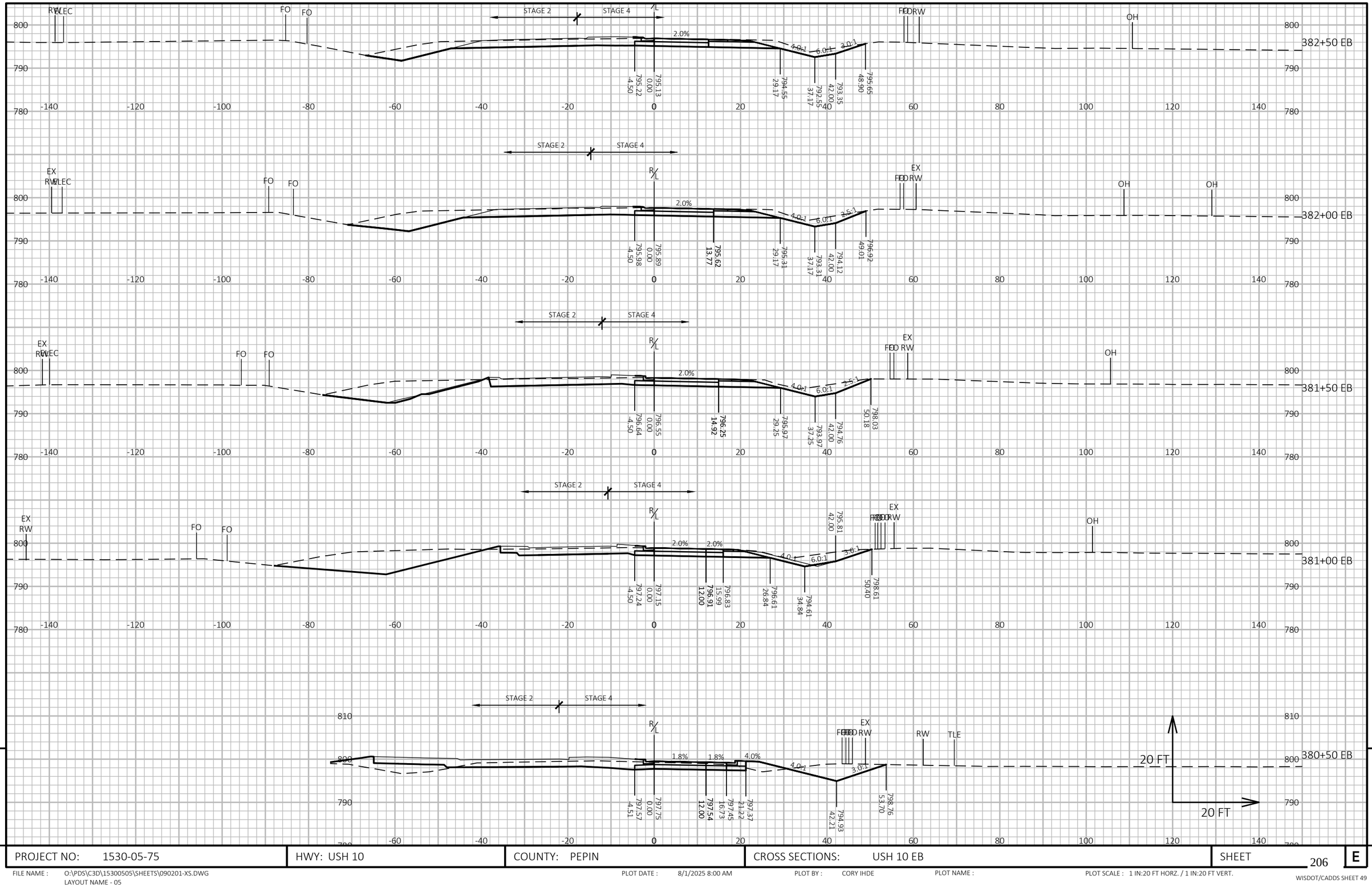
PLOT DATE : 8/1/2025 8:00 AM

PLOT BY : CORY IHDE

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: USH 10 EB	SHEET 206	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS.DWG
LAYOUT NAME - 05

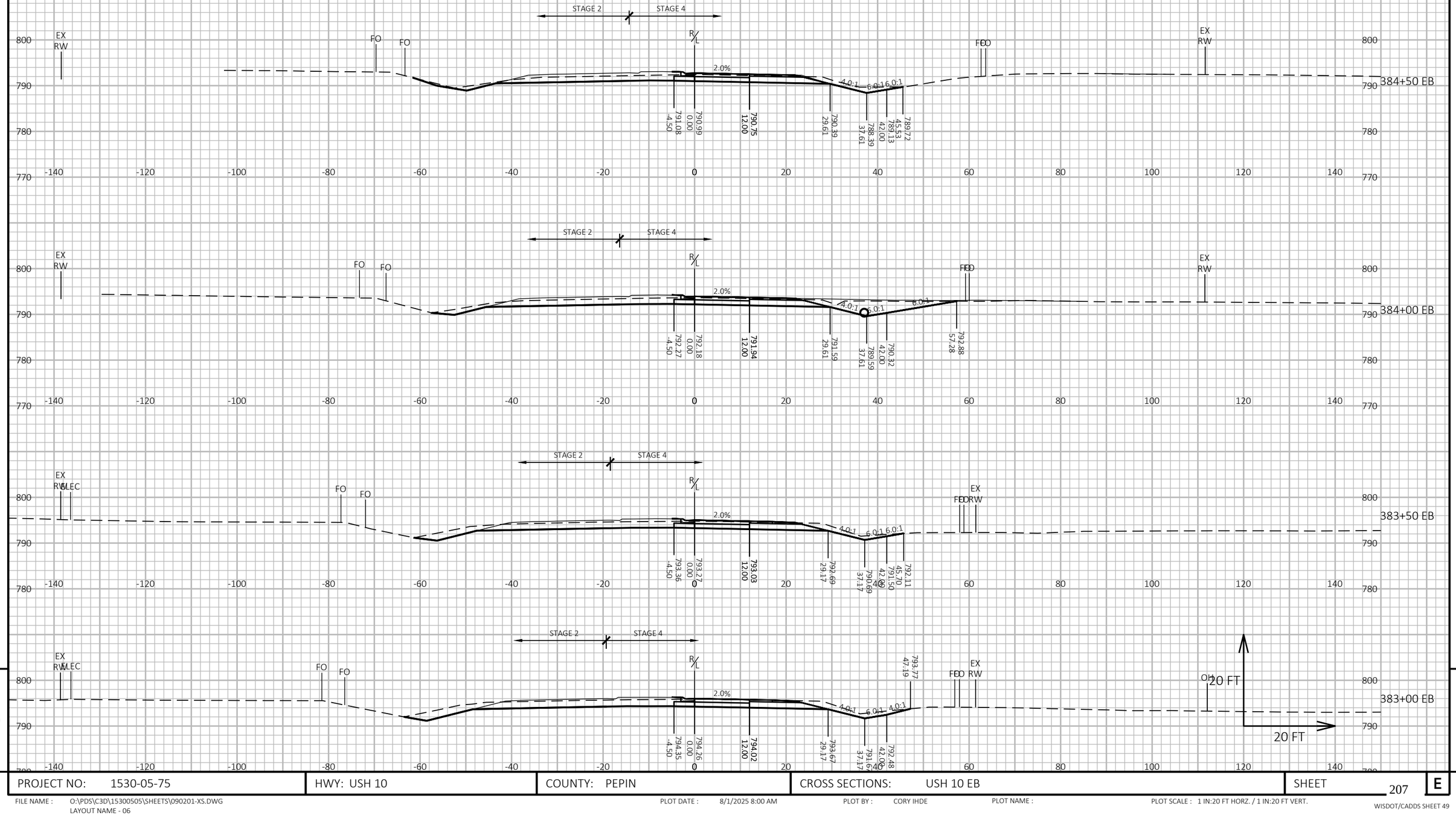
PLOT DATE : 8/1/2025 8:00 AM

PLOT BY : CORY IHDE

PLOT NAME :

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

WISDOT/CADDS SHEET 49



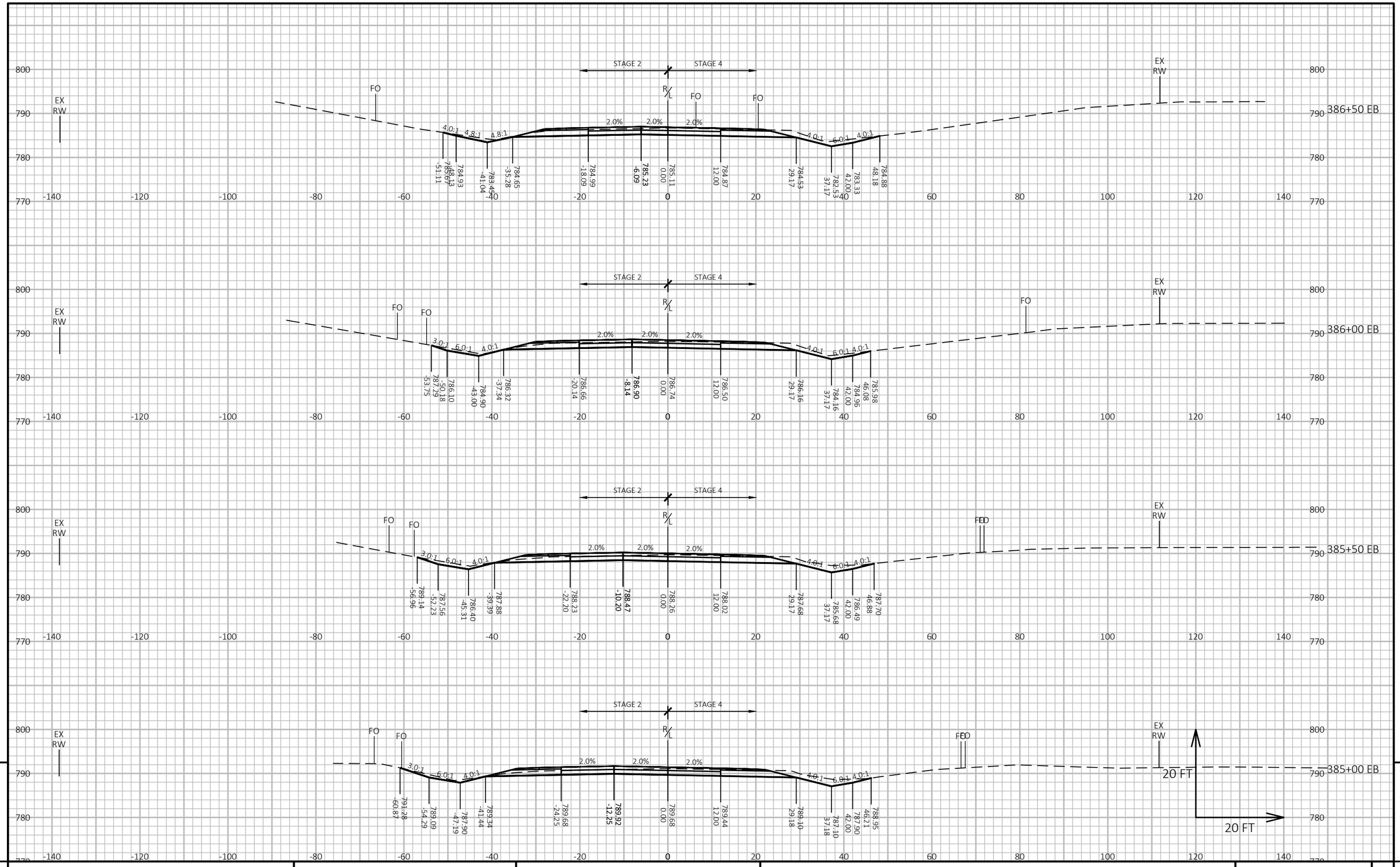
9 9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: USH 10 EB	SHEET 207	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS.DWG
LAYOUT NAME - 06

PLOT DATE : 8/1/2025 8:00 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: USH 10 EB	SHEET 208	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS.DWG
LAYOUT NAME - 07

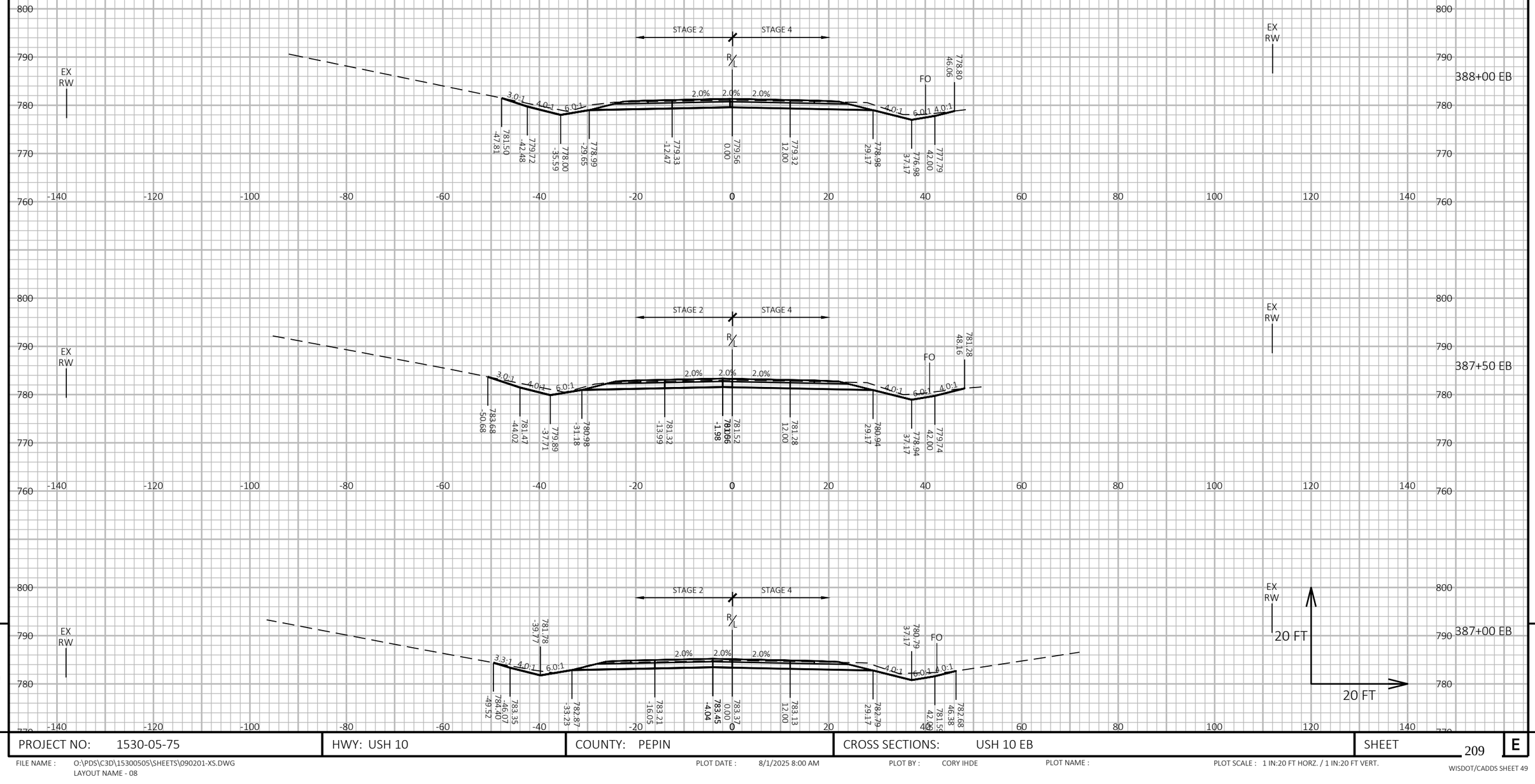
PLOT DATE : 8/1/2025 8:00 AM

PLOT BY : CORY IHDE

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: USH 10 EB	SHEET 209	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS.DWG
LAYOUT NAME - 08

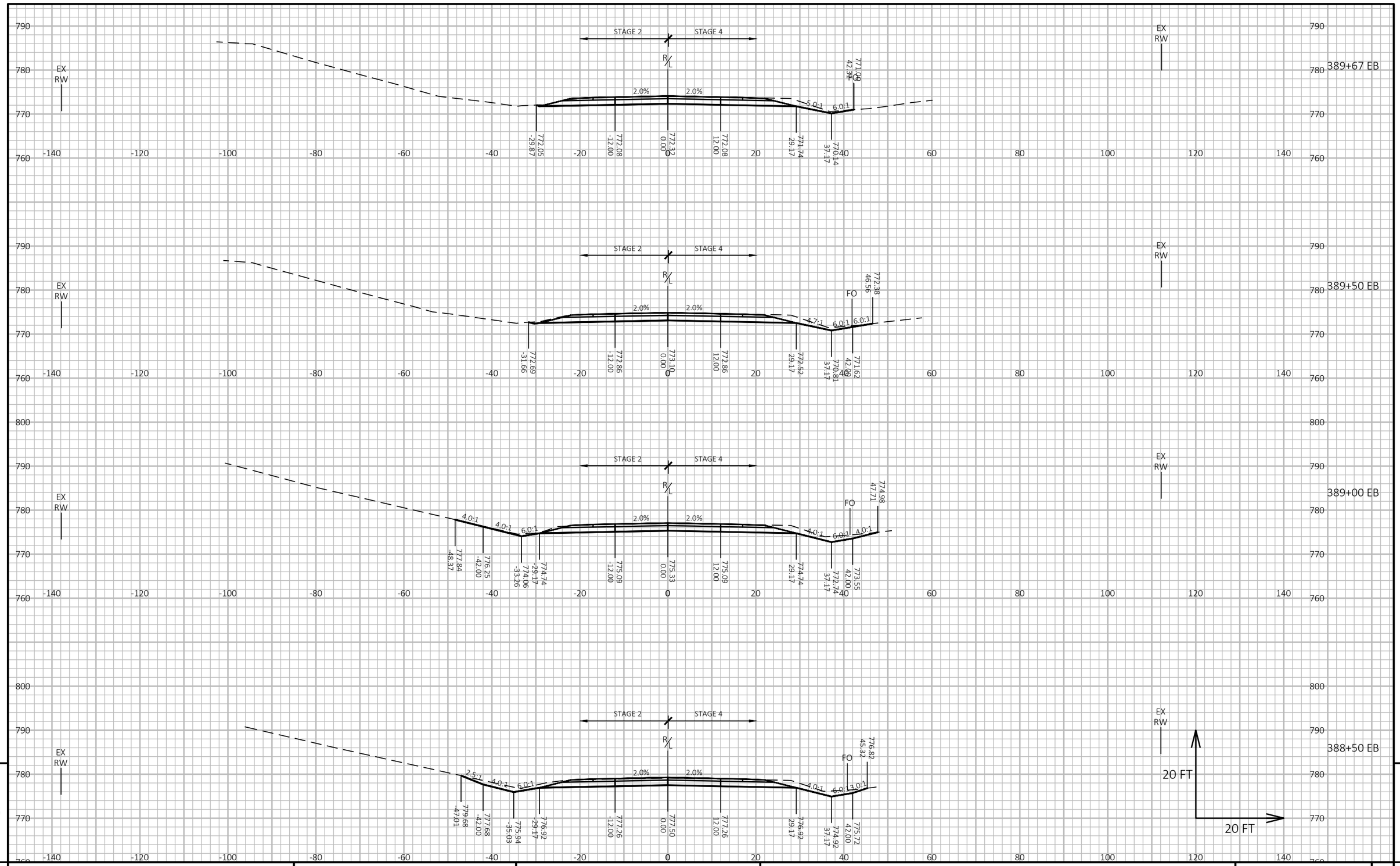
PLOT DATE : 8/1/2025 8:00 AM

PLOT BY : CORY IHDE

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: USH 10 EB	SHEET 210	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS.DWG
LAYOUT NAME - 09

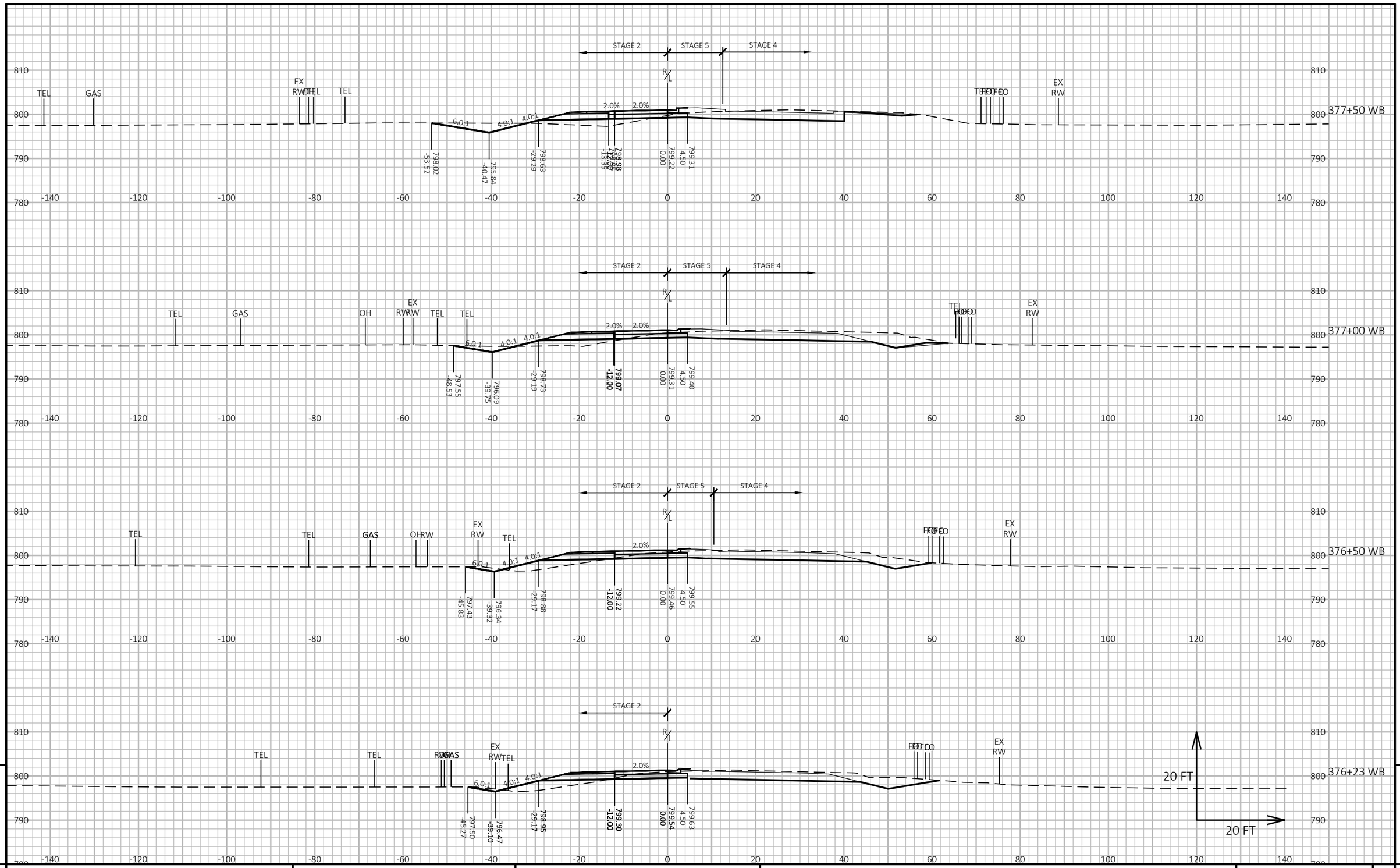
PLOT DATE : 8/1/2025 8:01 AM

PLOT BY : CORY IHDE

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: USH 10 WB	SHEET 211	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS.DWG
LAYOUT NAME - 11

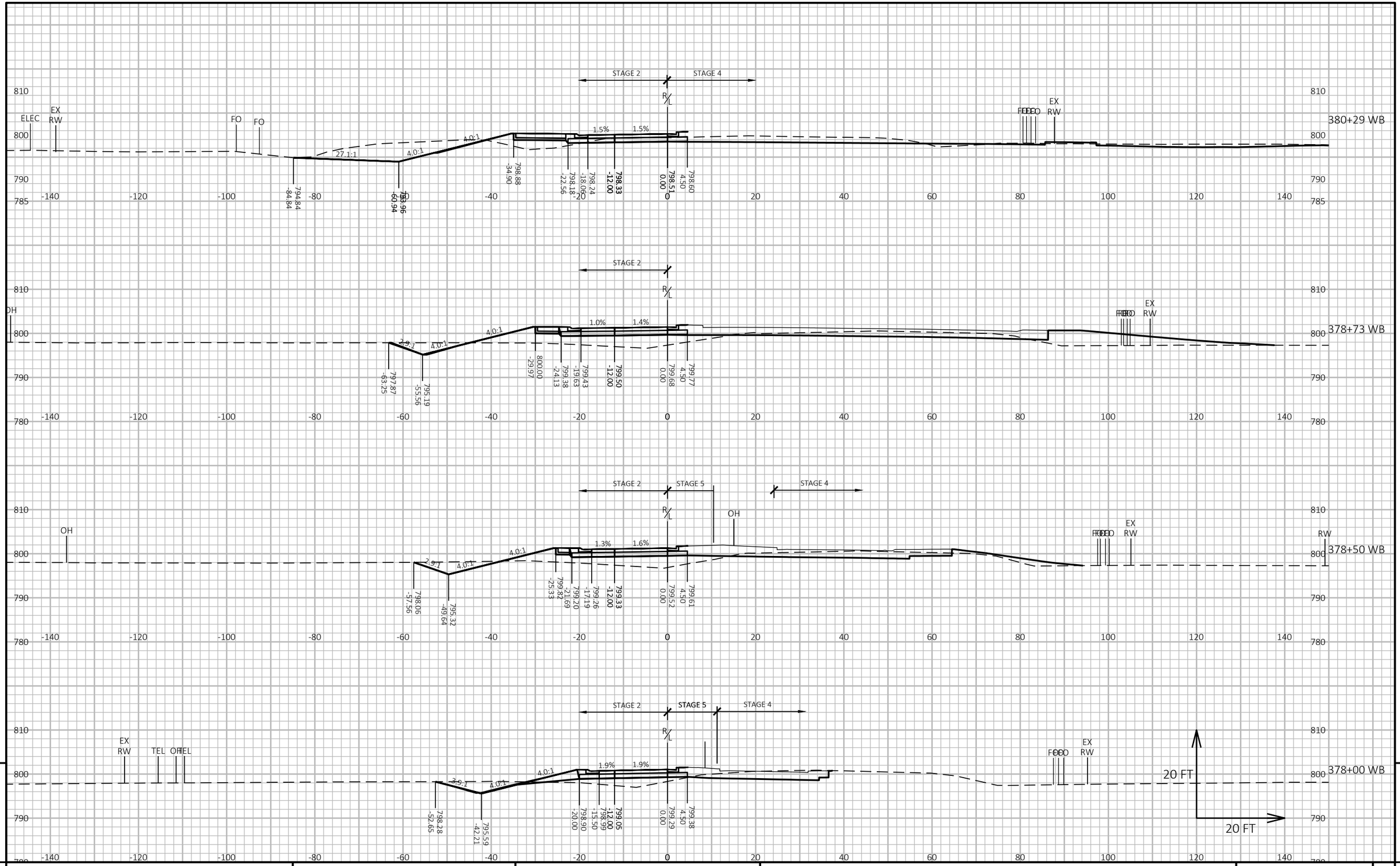
PLOT DATE : 8/1/2025 8:01 AM

PLOT BY : CORY IHDE

PLOT NAME :

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

WISDOT/CADDS SHEET 49



PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: USH 10 WB	SHEET 212	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS.DWG
LAYOUT NAME - 12

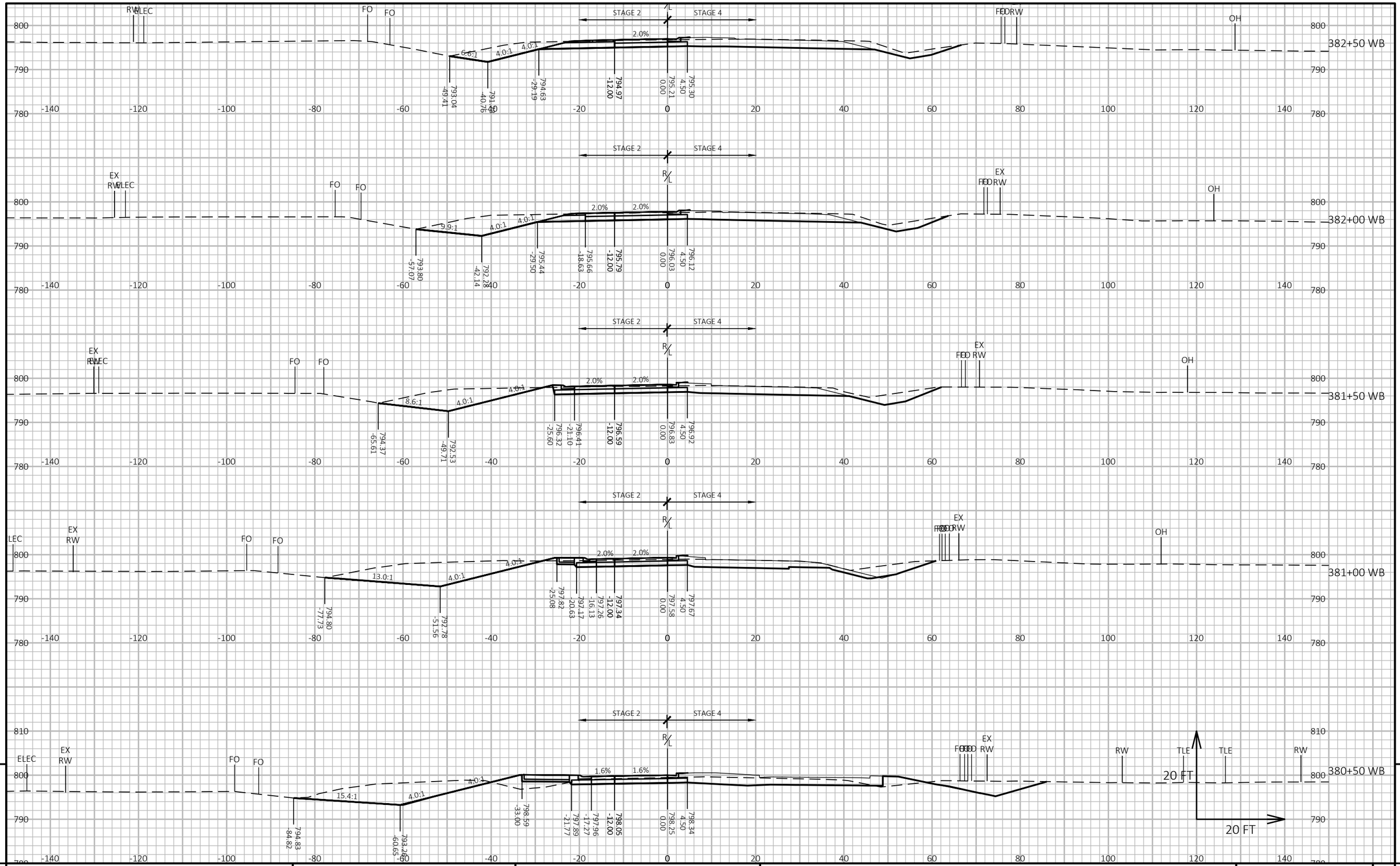
PLOT DATE : 8/1/2025 8:01 AM

PLOT BY : CORY IHDE

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: USH 10 WB	SHEET 213	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS.DWG
LAYOUT NAME - 13

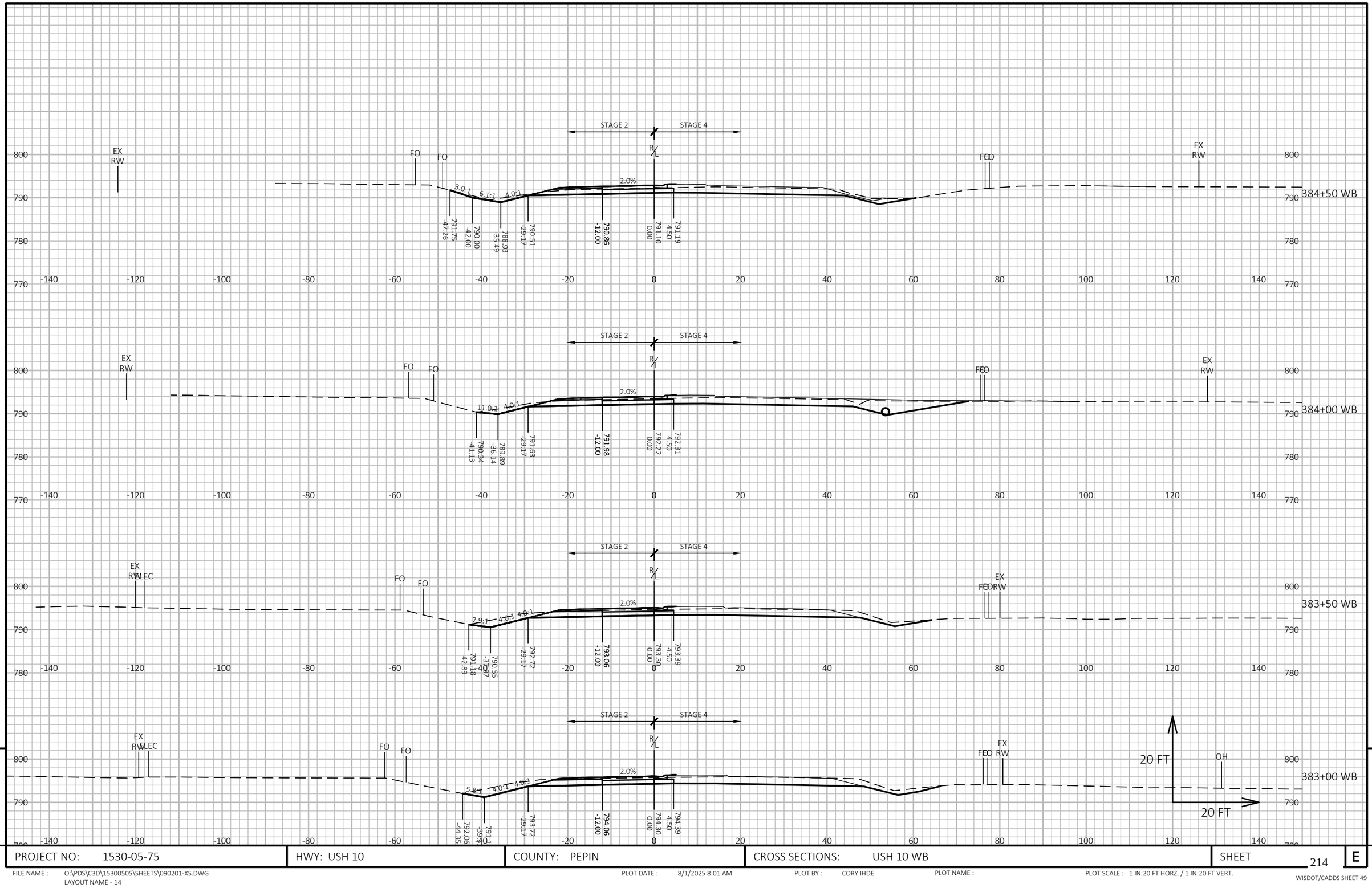
PLOT DATE : 8/1/2025 8:01 AM

PLOT BY : CORY IHDE

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: USH 10 WB	SHEET 214	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS.DWG
LAYOUT NAME - 14

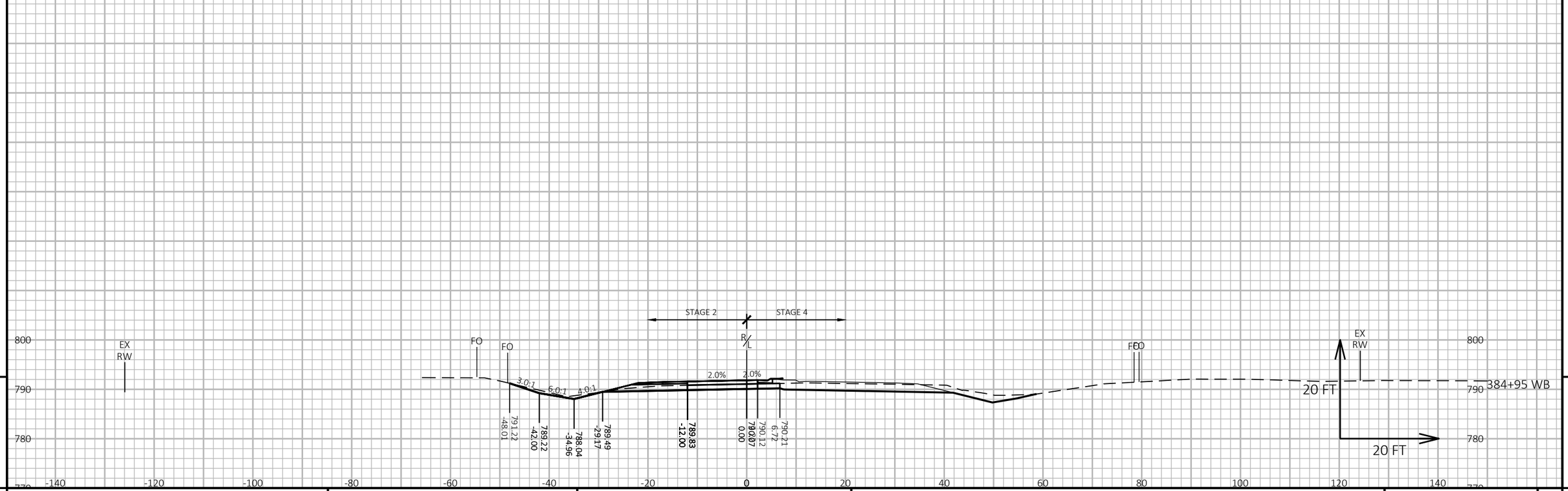
PLOT DATE : 8/1/2025 8:01 AM

PLOT BY : CORY IHDE

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: USH 10 WB	SHEET 215	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS.DWG
LAYOUT NAME - 15

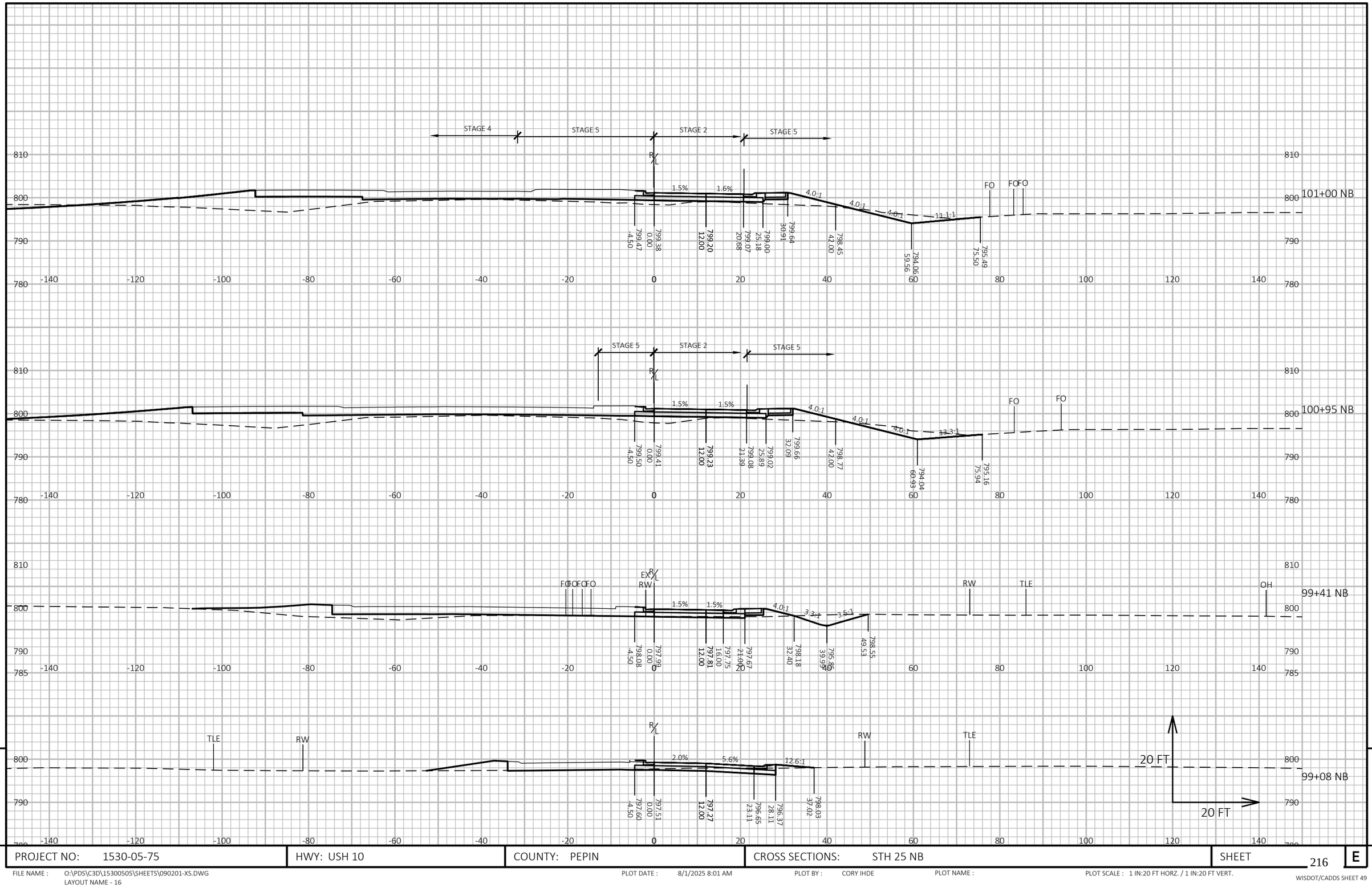
PLOT DATE : 8/1/2025 8:01 AM

PLOT BY : CORY IHDE

PLOT NAME :

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

WISDOT/CADDS SHEET 49

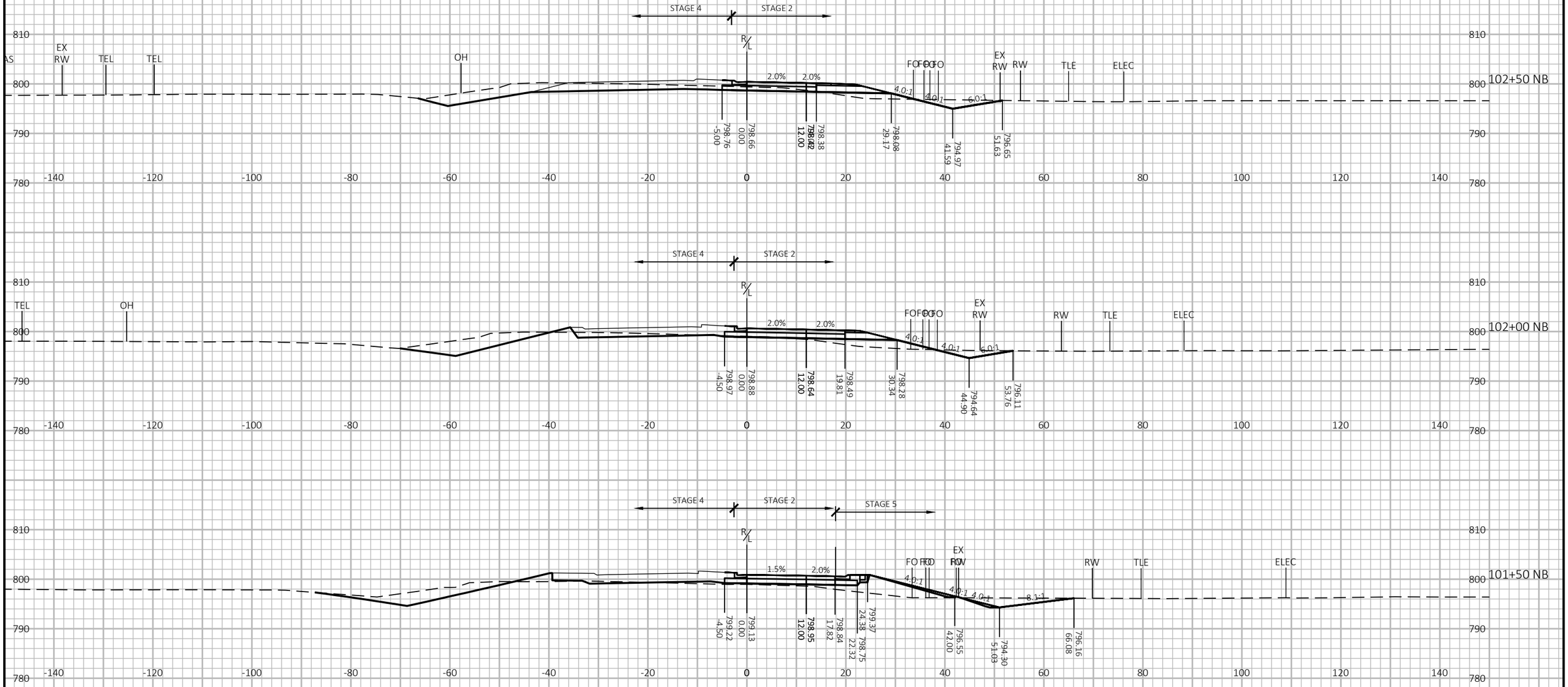


PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: STH 25 NB	SHEET 216	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS.DWG
LAYOUT NAME - 16

PLOT DATE : 8/1/2025 8:01 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: STH 25 NB	SHEET 217	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS.DWG
LAYOUT NAME - 17

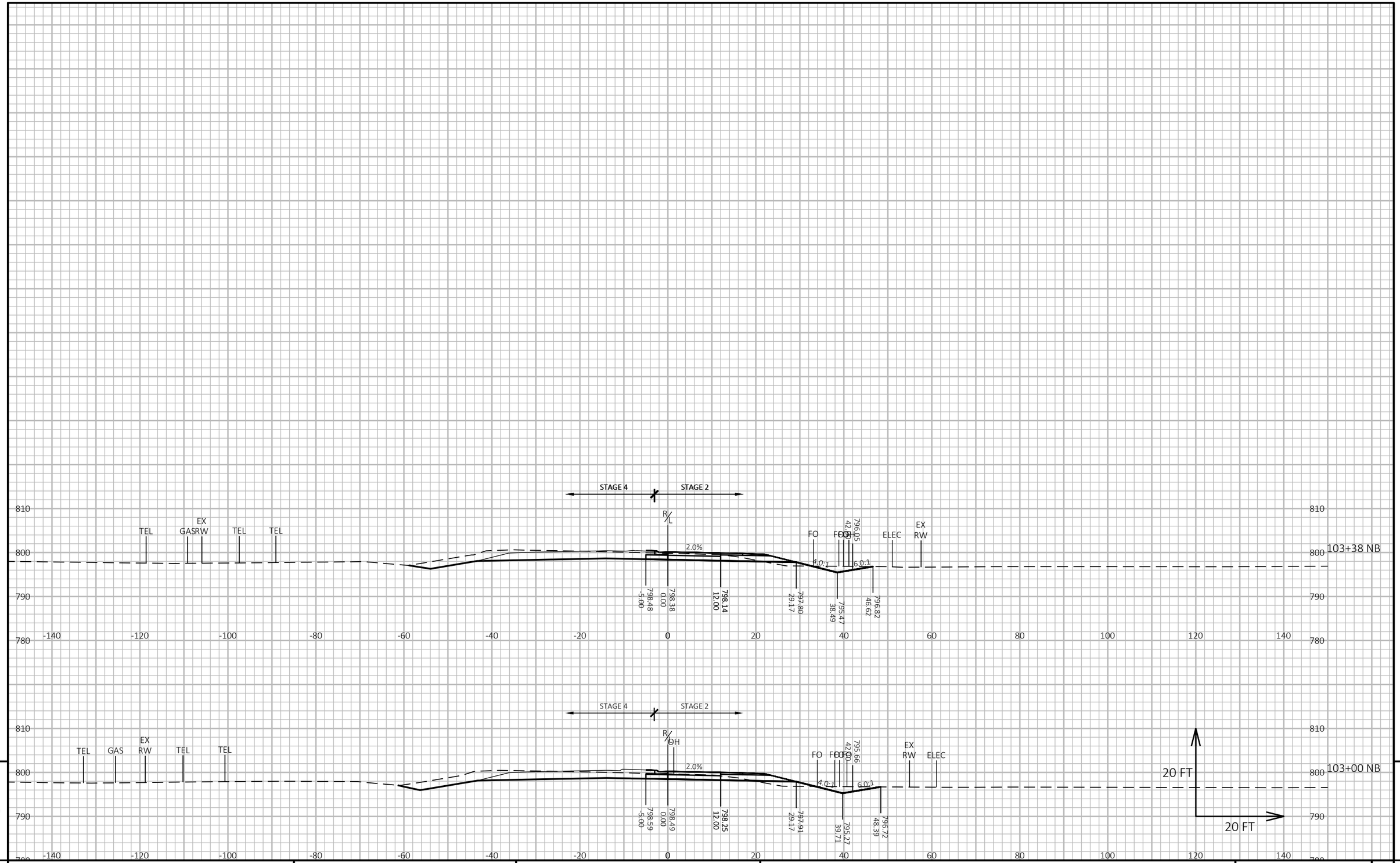
PLOT DATE : 8/1/2025 8:01 AM

PLOT BY : CORY IHDE

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

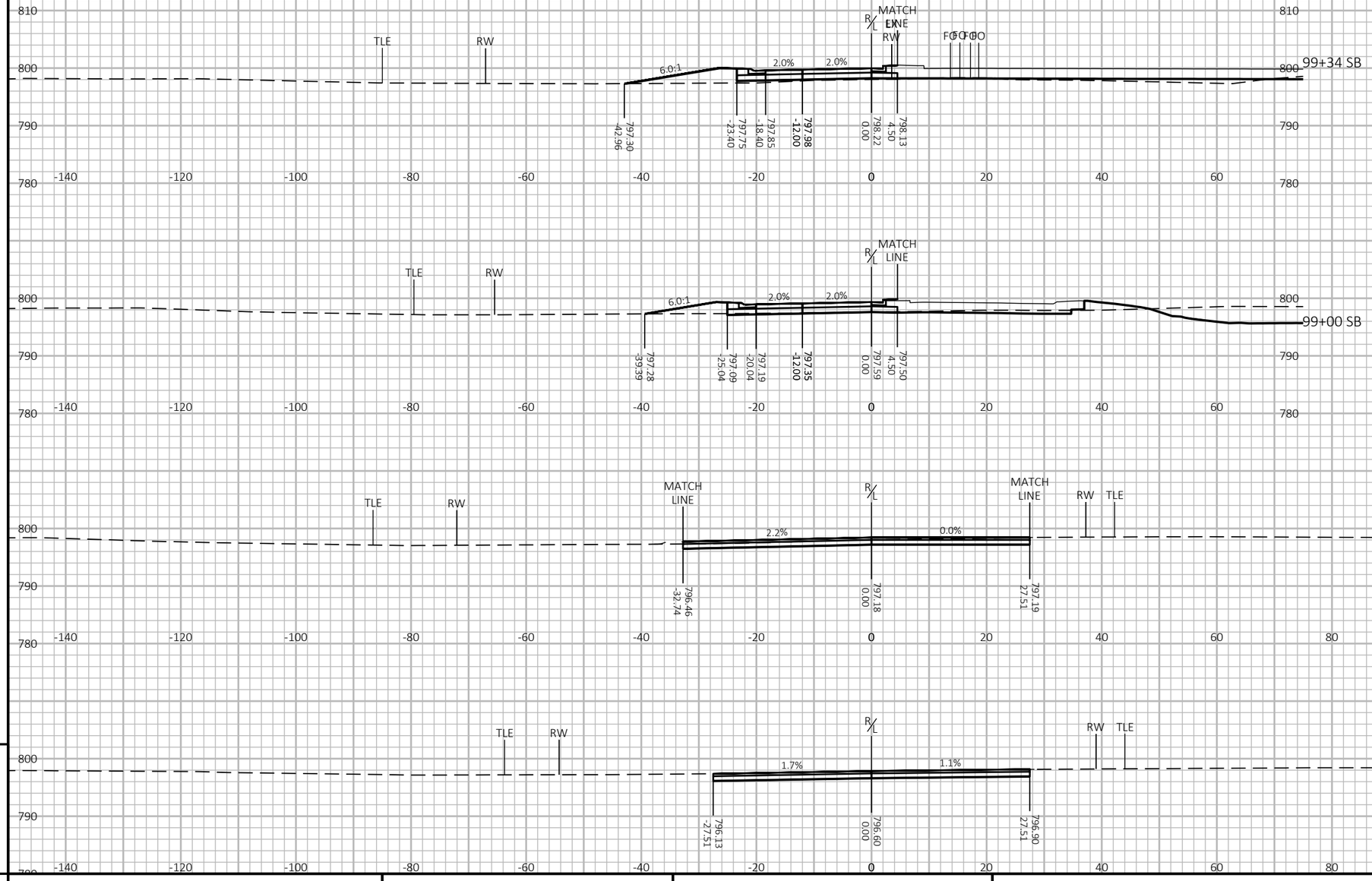
9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: STH 25 NB	SHEET 218	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS.DWG
LAYOUT NAME - 18

PLOT DATE : 8/1/2025 8:01 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: STH 25 SB	SHEET 219	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS.DWG
LAYOUT NAME - 19

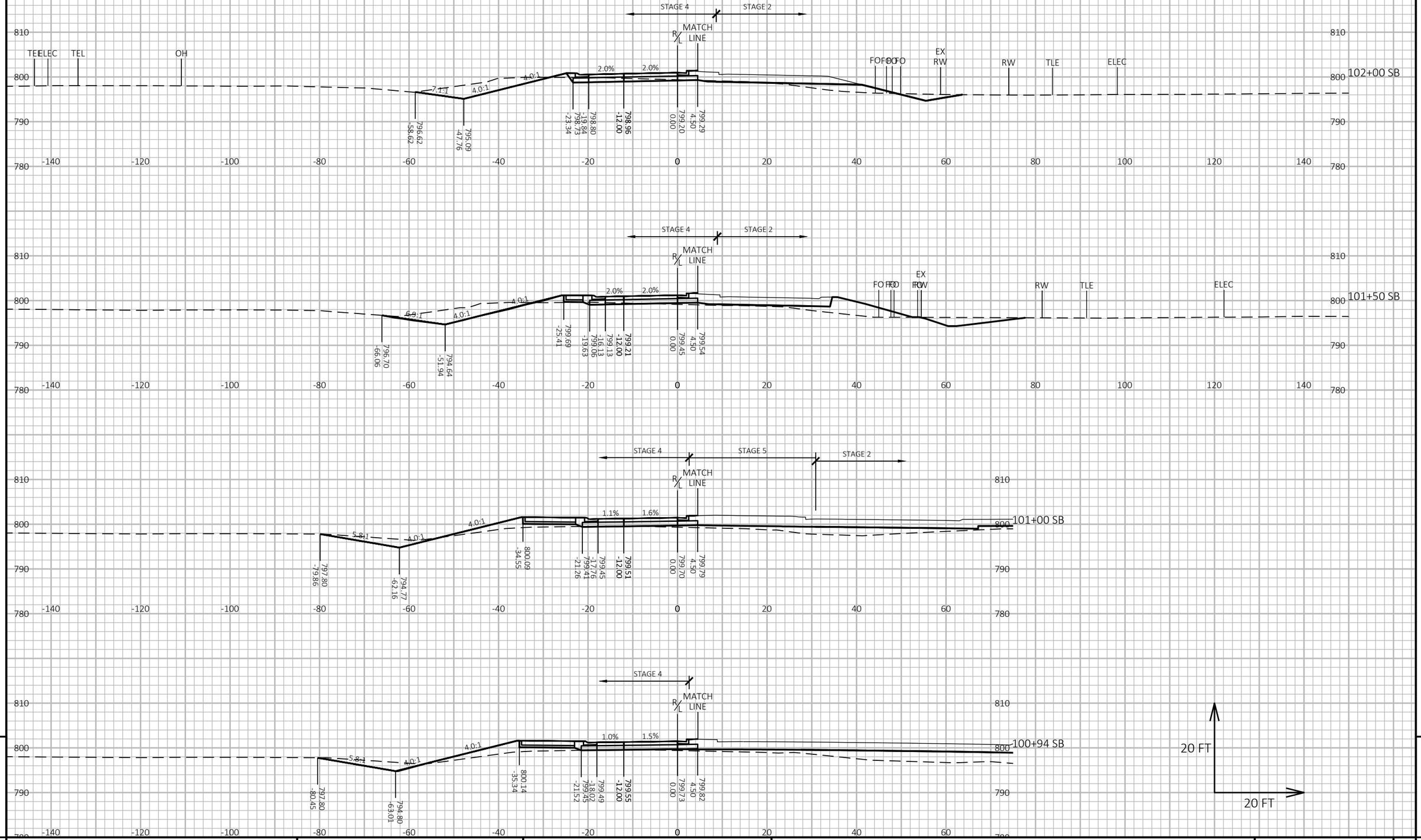
PLOT DATE : 8/1/2025 8:01 AM

PLOT BY : CORY IHDE

PLOT NAME :

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

WISDOT/CADDS SHEET 49

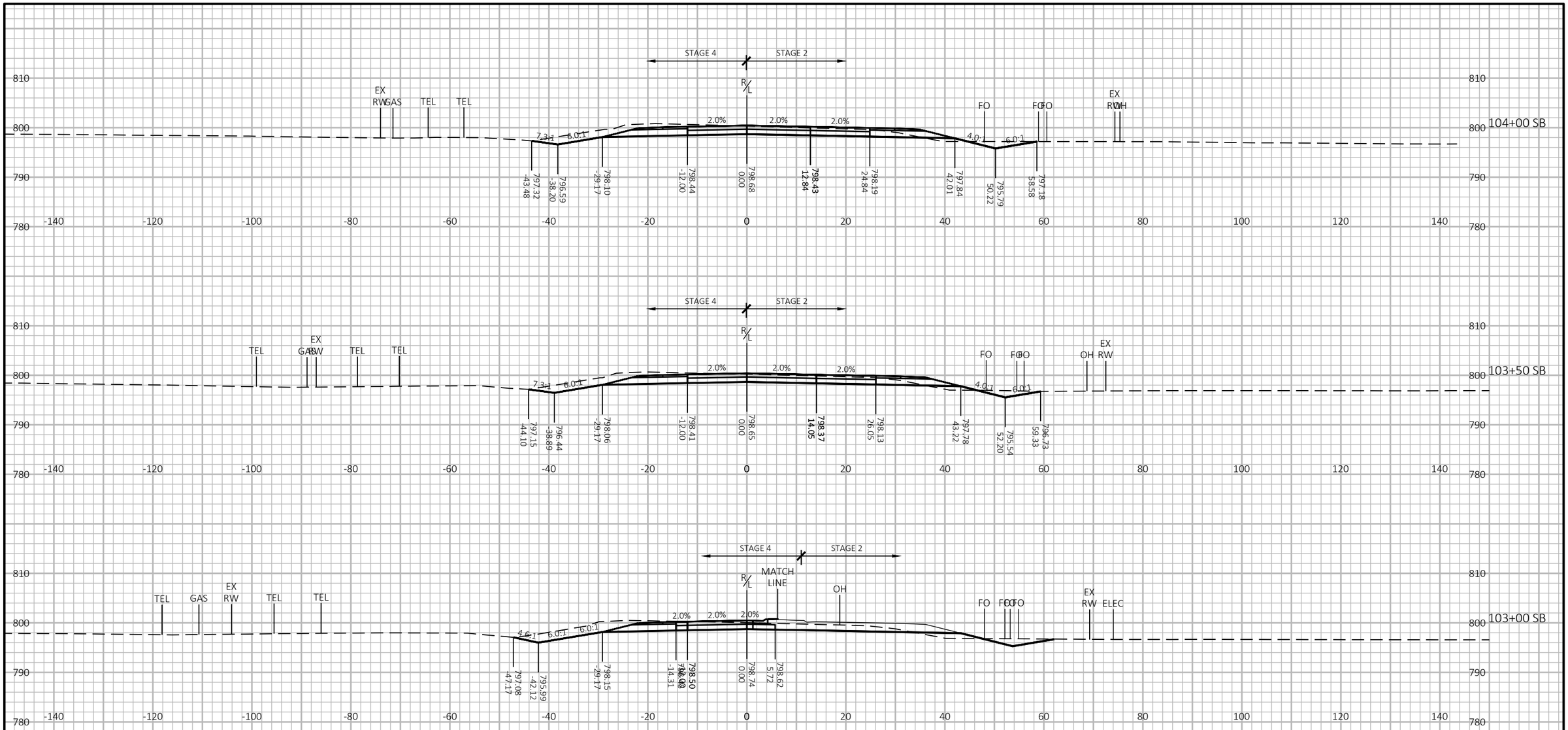


PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: STH 25 SB	SHEET 220	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS.DWG
LAYOUT NAME - 20

PLOT DATE : 8/1/2025 8:01 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: STH 25 SB	SHEET 221	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS.DWG
LAYOUT NAME - 21

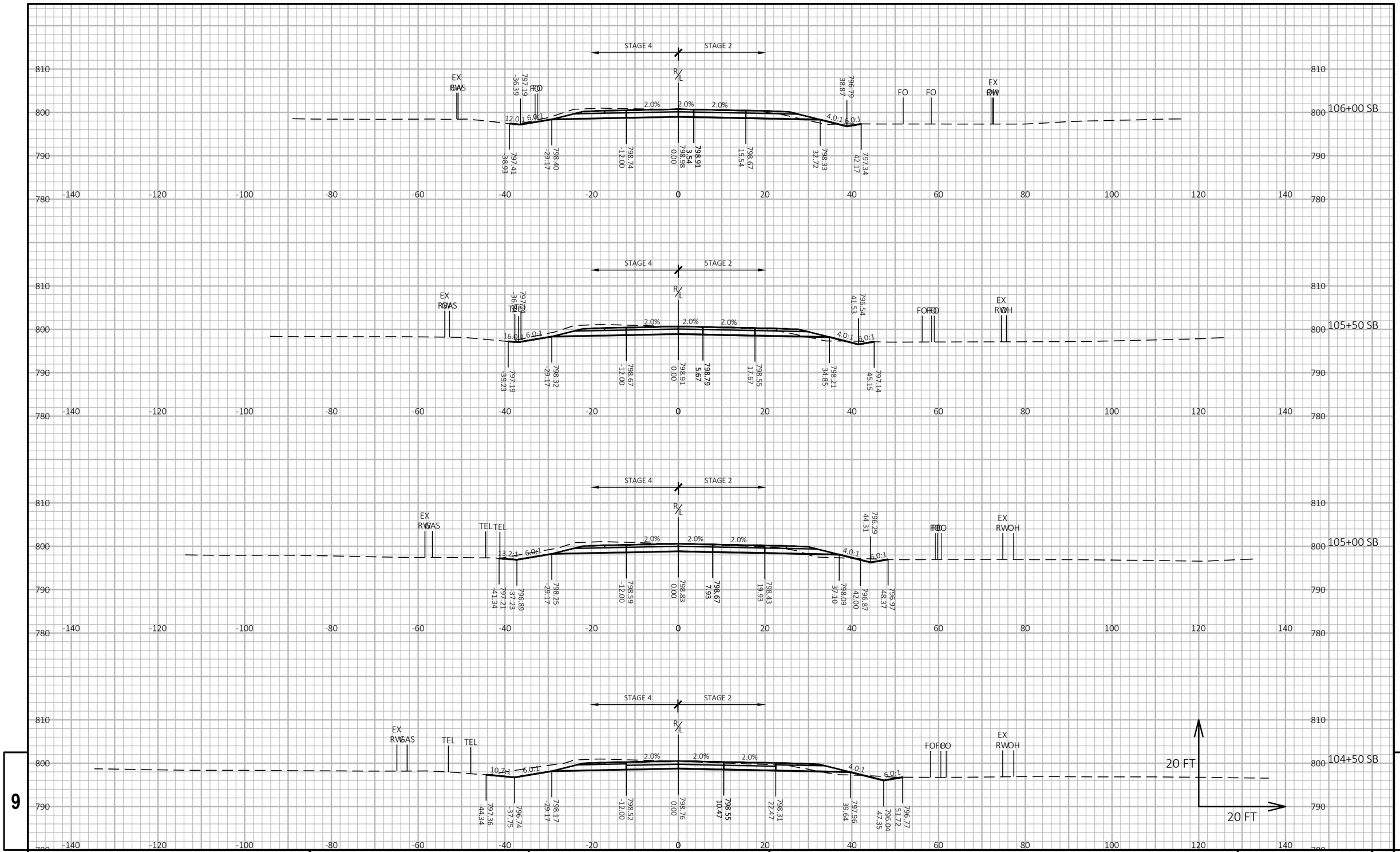
PLOT DATE : 8/1/2025 8:01 AM

PLOT BY : CORY IHDE

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: STH 25 SB	SHEET 222	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS.DWG
LAYOUT NAME - 22

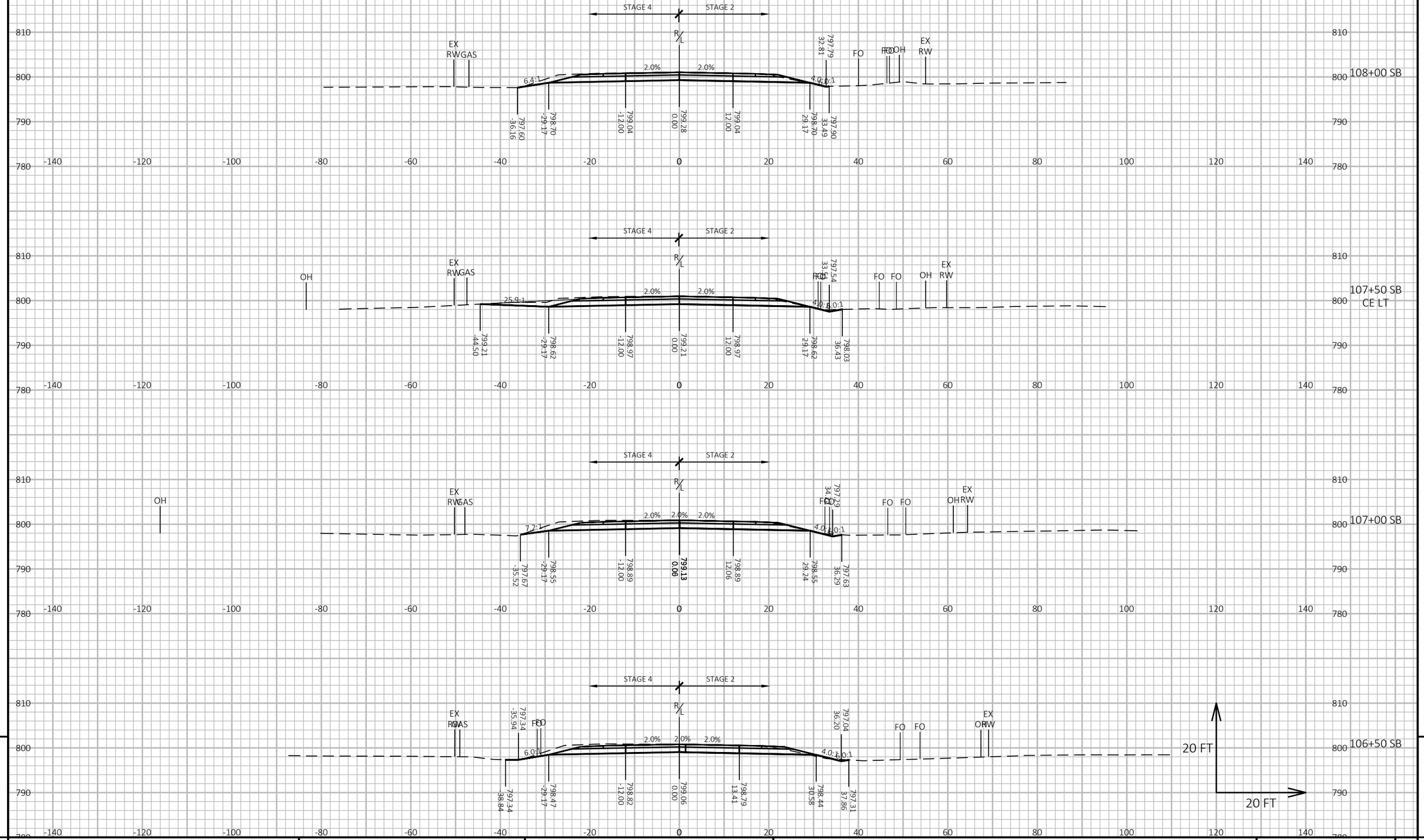
PLOT DATE : 8/1/2025 8:02 AM

PLOT BY : CORY IHDE

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: STH 25 SB	SHEET 223	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS.DWG
LAYOUT NAME - 23

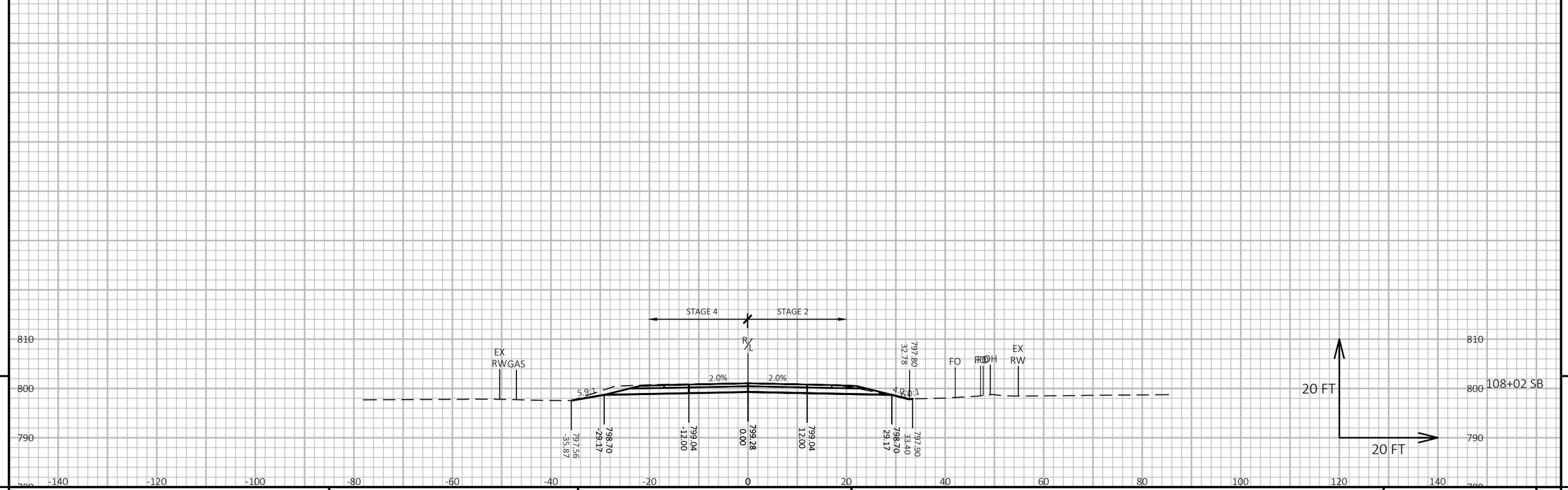
PLOT DATE : 8/1/2025 8:02 AM

PLOT BY : CORY IHDE

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: STH 25 SB	SHEET 224	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS.DWG
LAYOUT NAME - 24

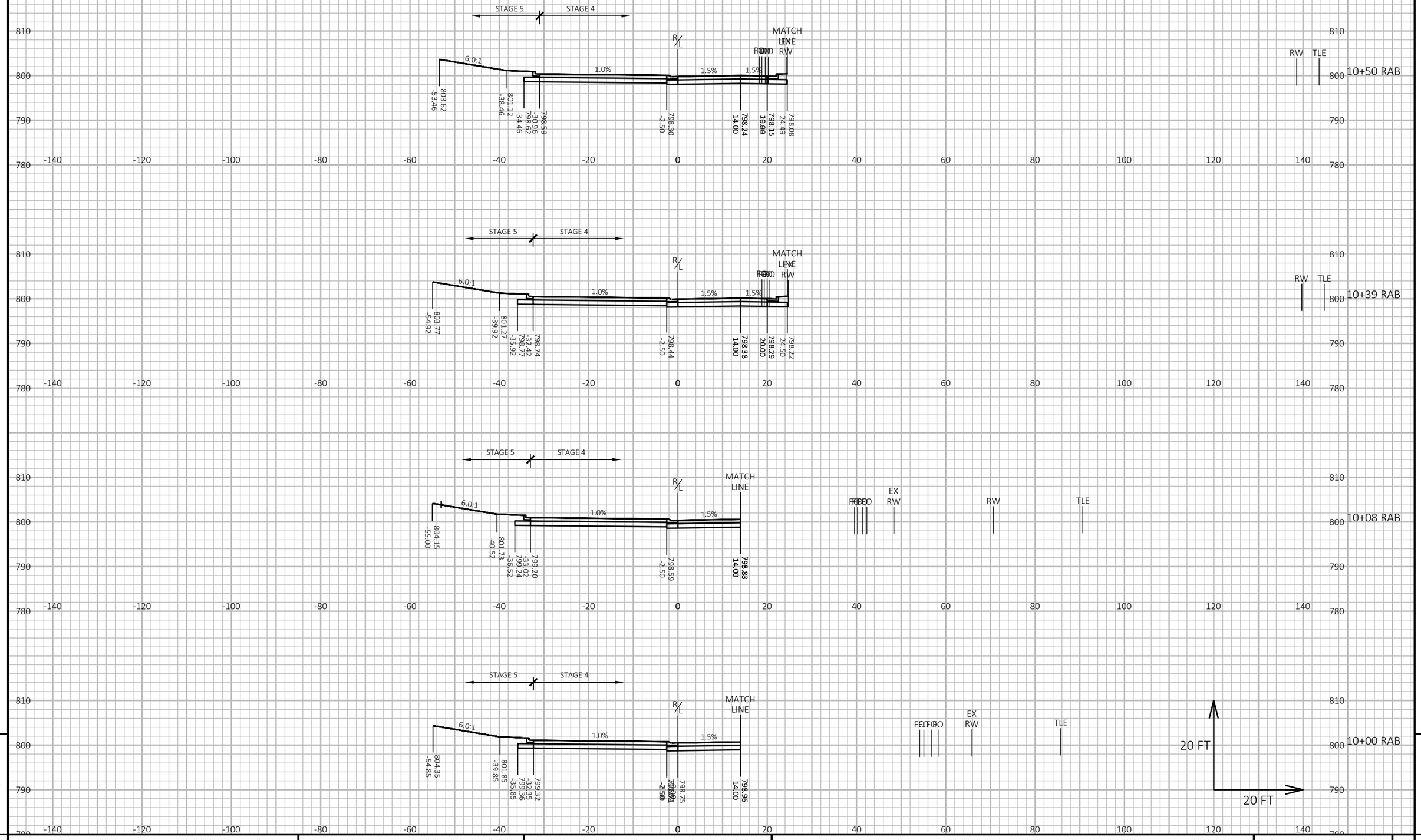
PLOT DATE : 8/1/2025 8:02 AM

PLOT BY : CORY IHDE

PLOT NAME :

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

WISDOT/CADDS SHEET 49



PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: RDBT-CENTRAL	SHEET 225	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS.DWG
LAYOUT NAME - 25

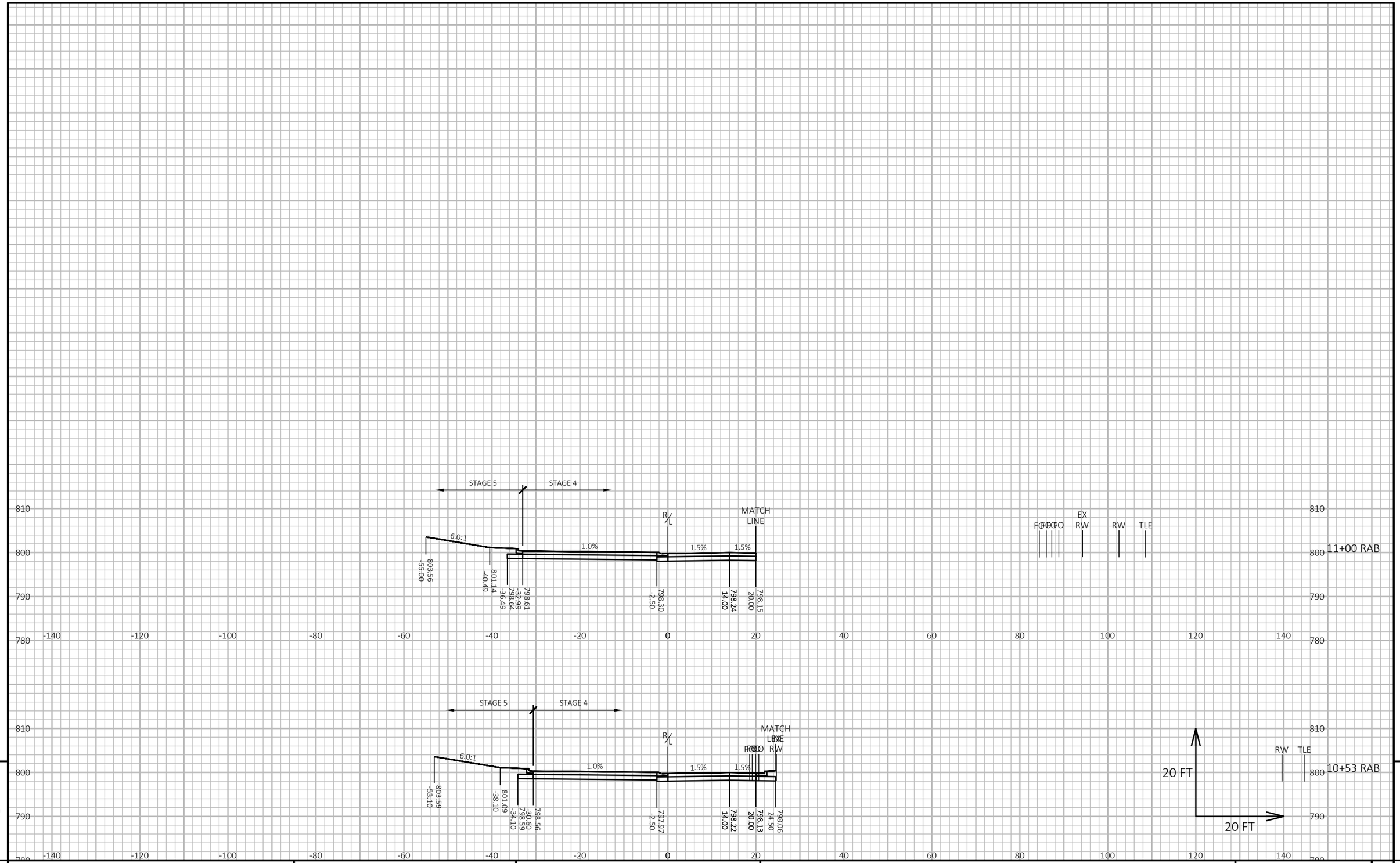
PLOT DATE : 8/1/2025 8:02 AM

PLOT BY : CORY IHDE

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: RDBT-CENTRAL	SHEET 226	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS.DWG
LAYOUT NAME - 26

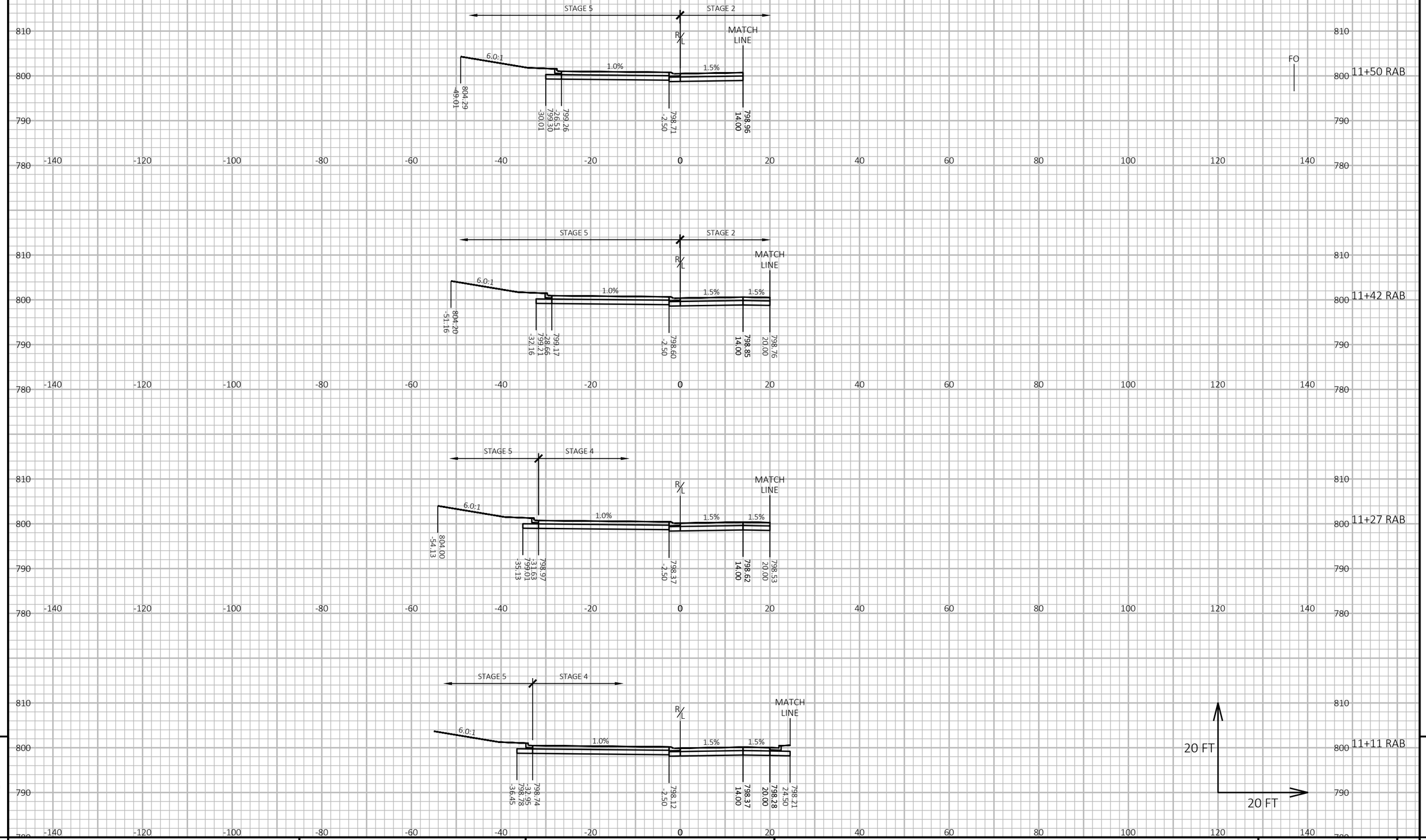
PLOT DATE : 8/1/2025 8:02 AM

PLOT BY : CORY IHDE

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: RDBT-CENTRAL	SHEET 227	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS.DWG
LAYOUT NAME - 27

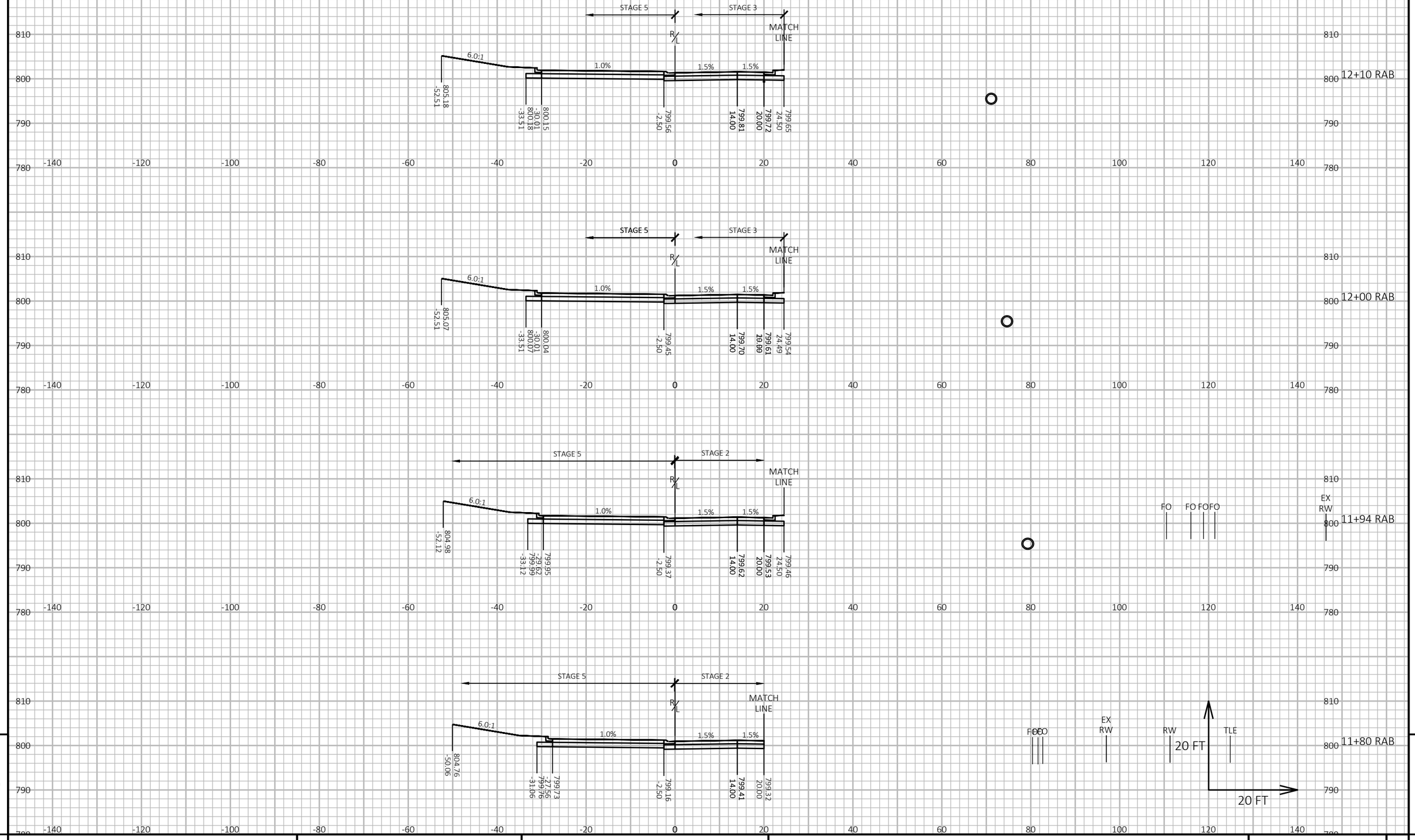
PLOT DATE : 8/1/2025 8:02 AM

PLOT BY : CORY IHDE

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: RDBT-CENTRAL	SHEET 228	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS.DWG
LAYOUT NAME - 28

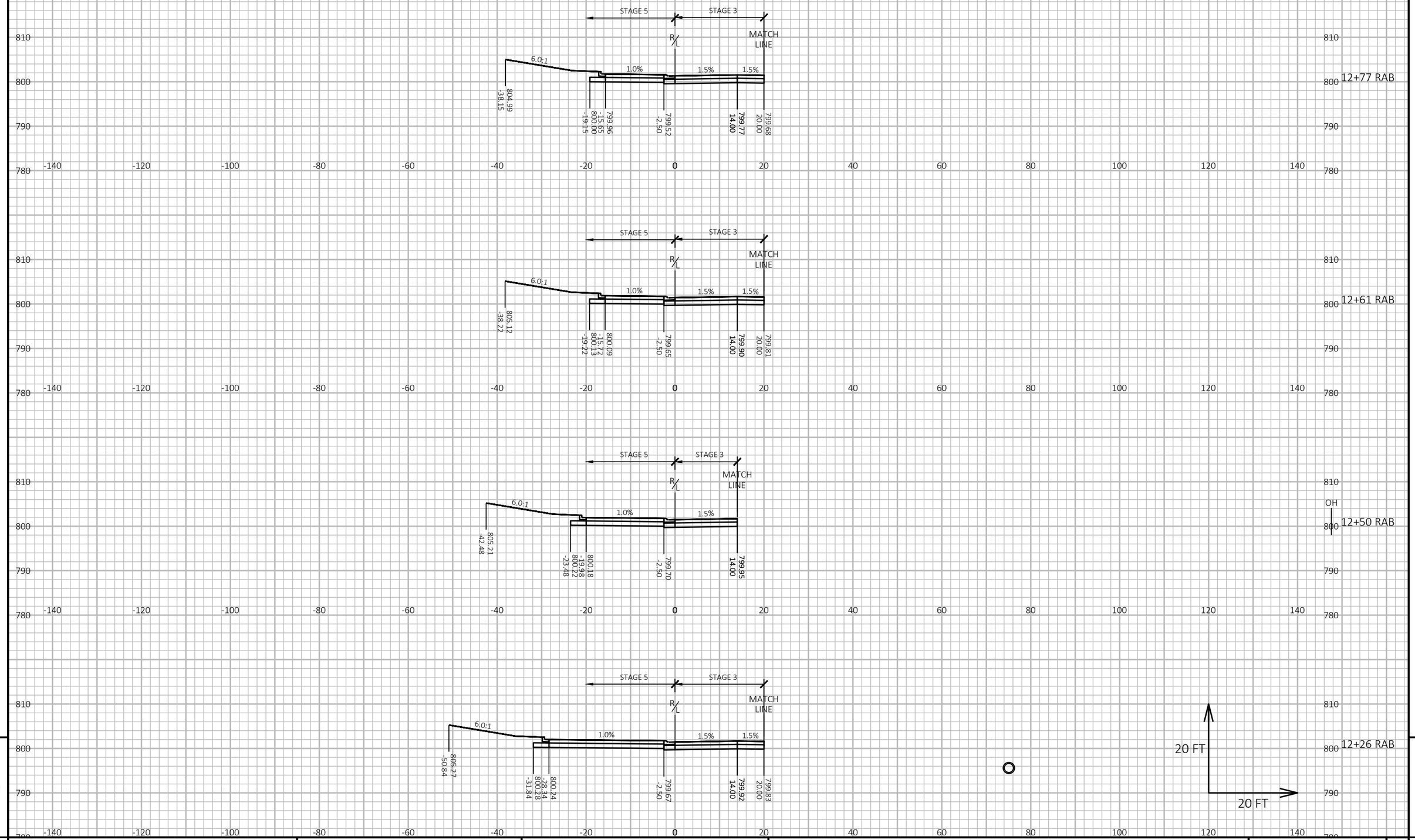
PLOT DATE : 8/1/2025 8:02 AM

PLOT BY : CORY IHDE

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: RDBT-CENTRAL	SHEET 229	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS.DWG
LAYOUT NAME - 29

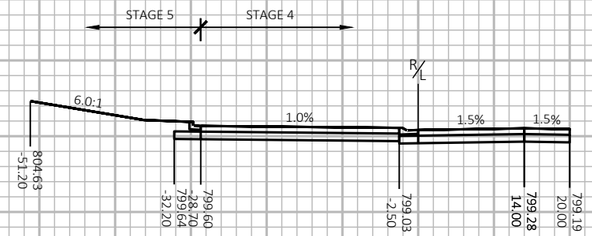
PLOT DATE : 8/1/2025 8:02 AM

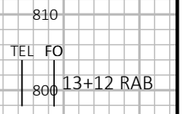
PLOT BY : CORY IHDE

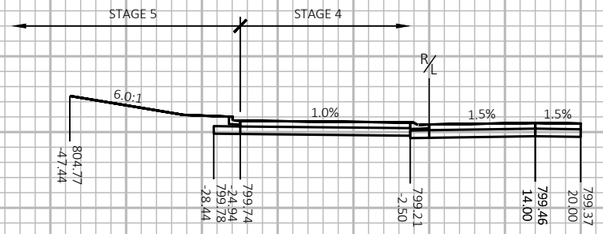
PLOT NAME :

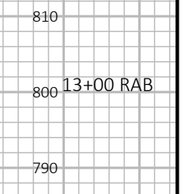
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

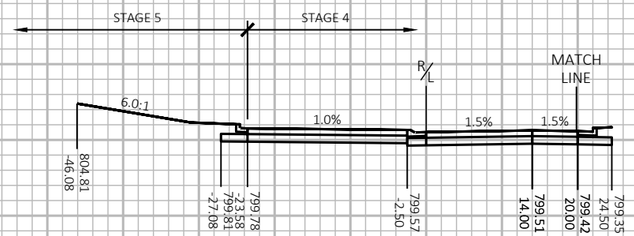
WISDOT/CADDS SHEET 49

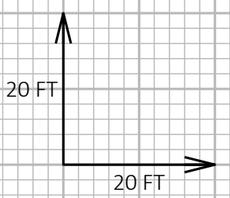


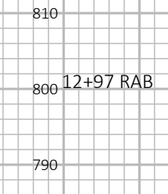












9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: RDBT-CENTRAL	SHEET 230	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS.DWG
LAYOUT NAME - 30

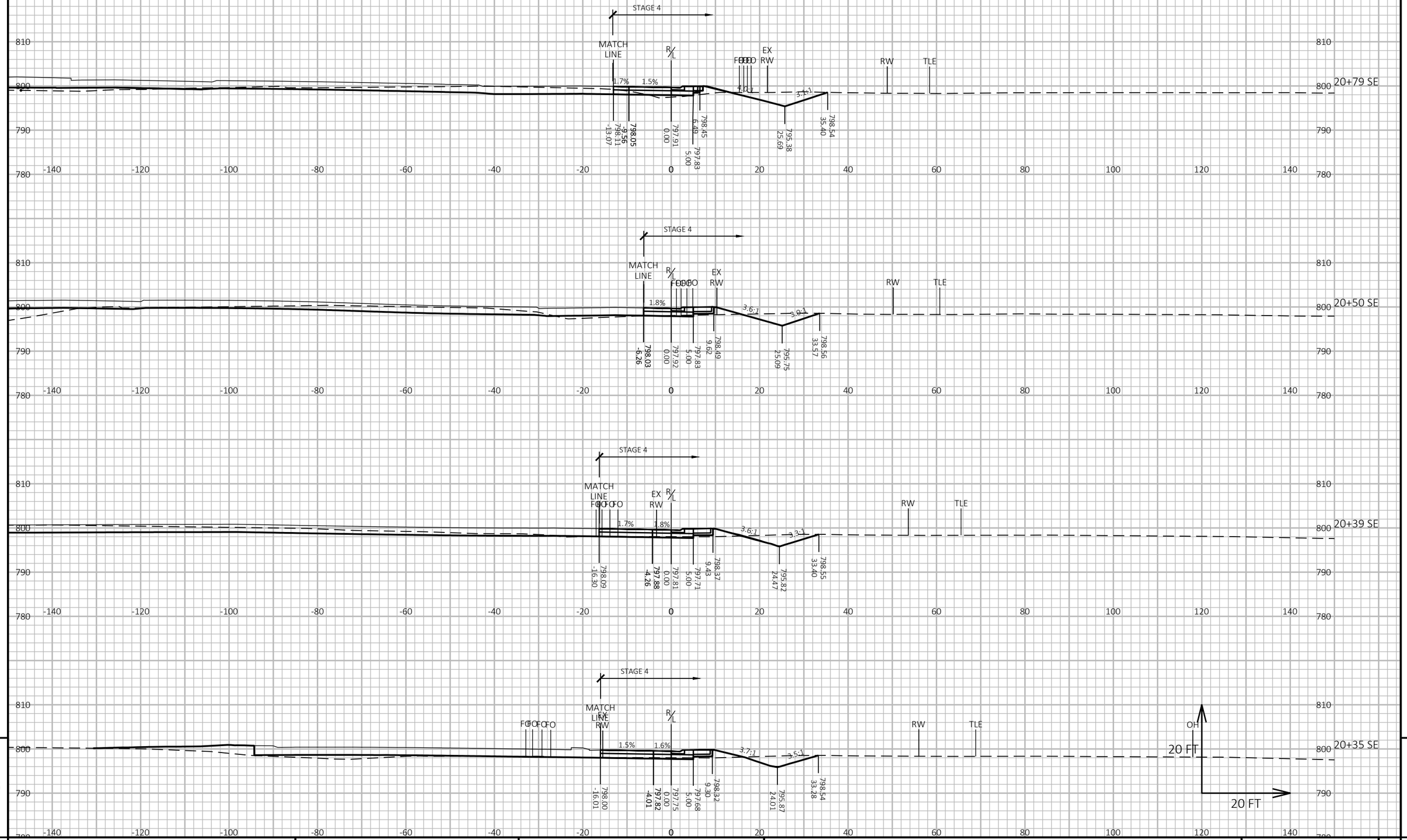
PLOT DATE : 8/1/2025 8:02 AM

PLOT BY : CORY IHDE

PLOT NAME :

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

WISDOT/CADDS SHEET 49

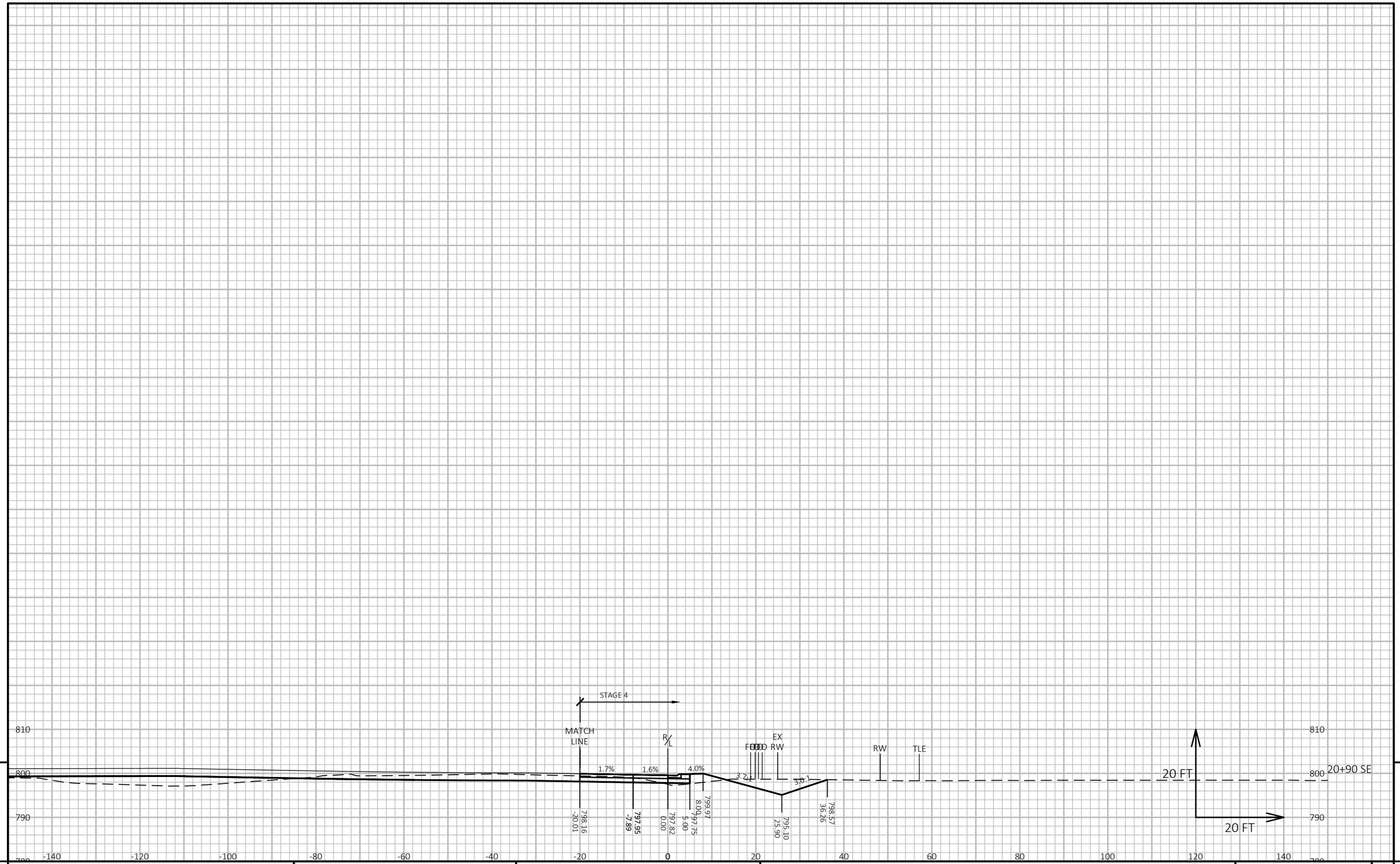


9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: RDBT-SE	SHEET 231	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS.DWG
LAYOUT NAME - 31
PLOT DATE : 8/1/2025 8:02 AM
PLOT BY : CORY IHDE
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.
WISDOT/CADDS SHEET 49

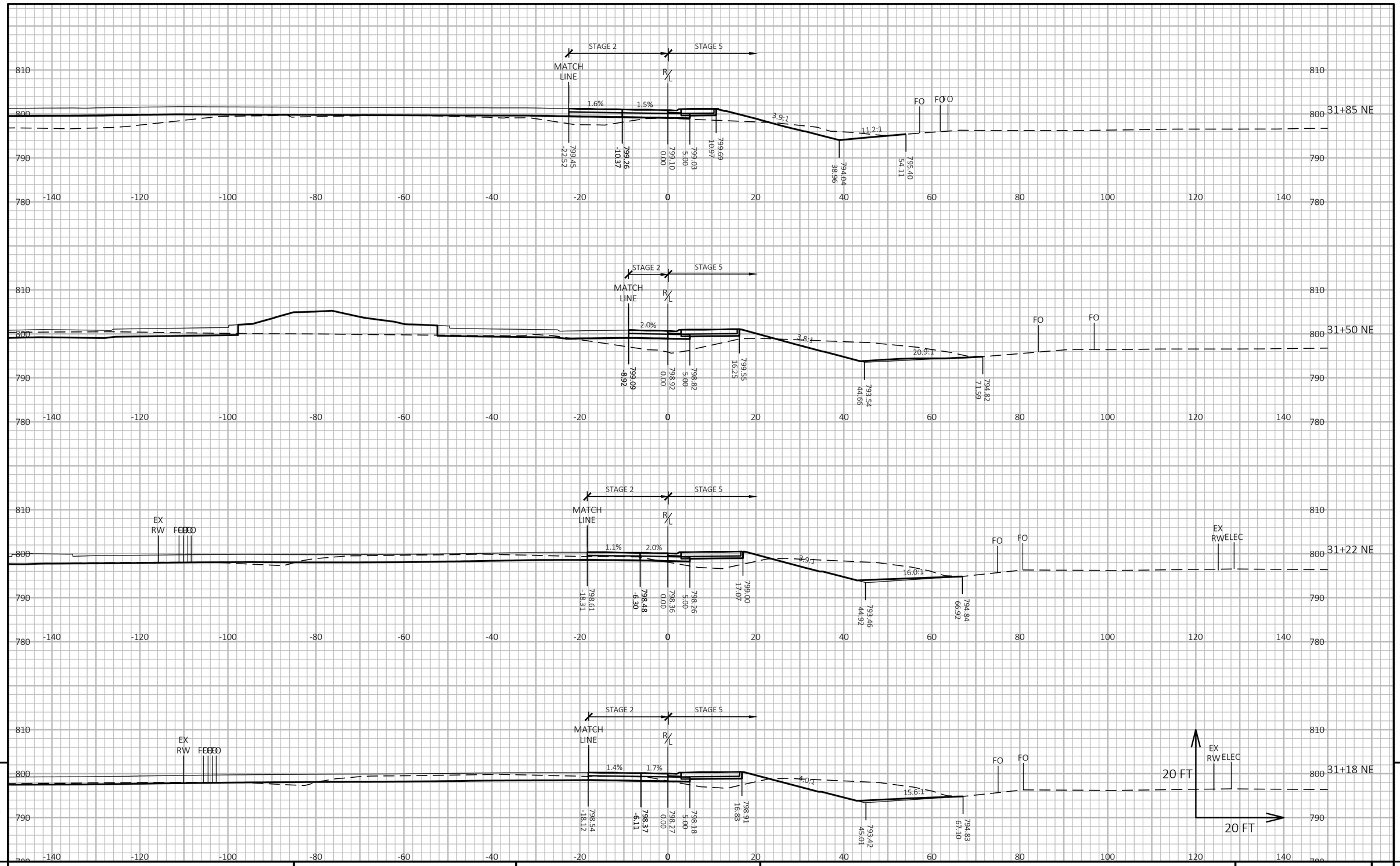


9 9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: RDBT-SE	SHEET 232	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS.DWG
LAYOUT NAME - 32

PLOT DATE : 8/1/2025 8:02 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: RDBT-NE	SHEET 233	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS.DWG
LAYOUT NAME - 33

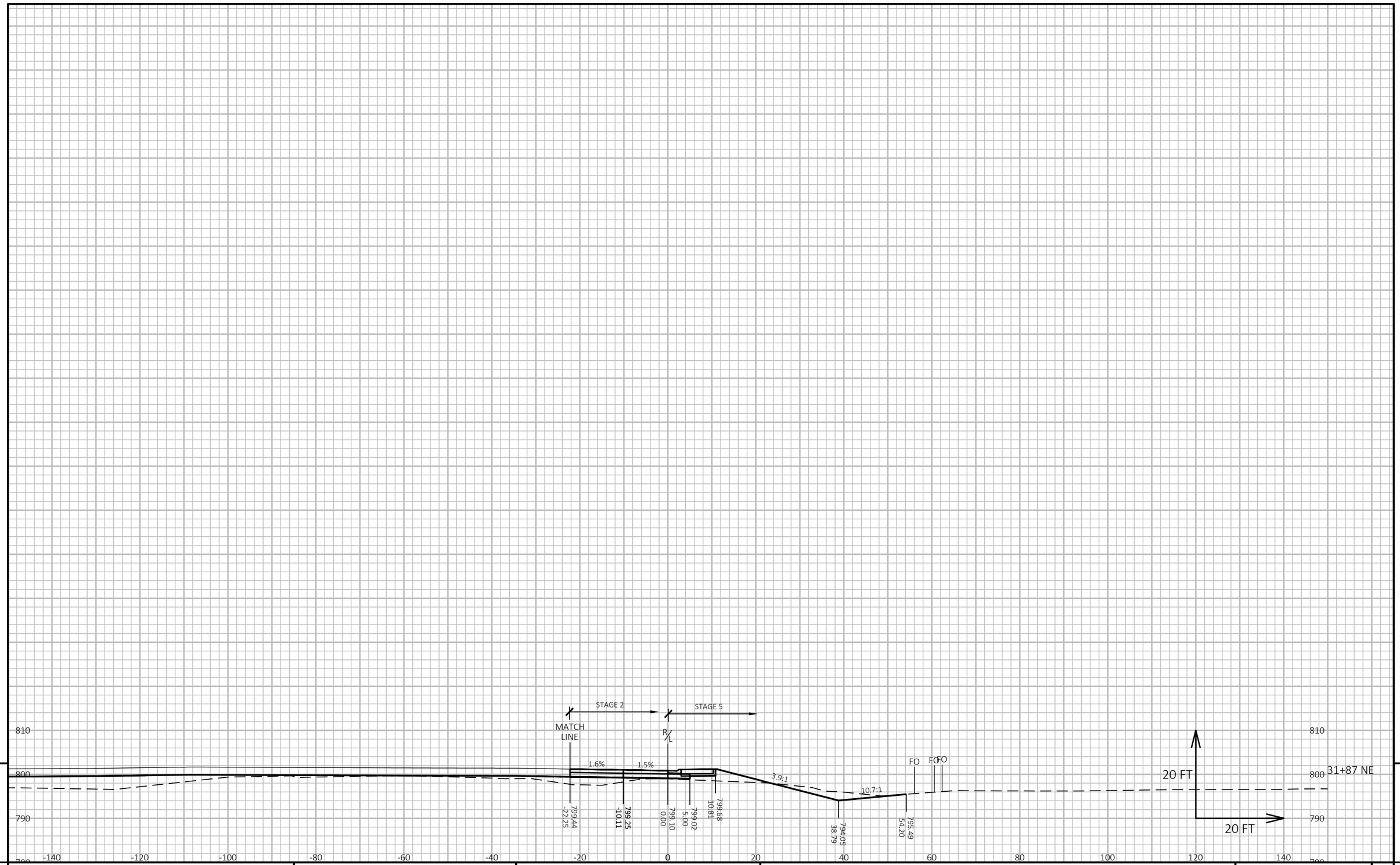
PLOT DATE : 8/1/2025 8:02 AM

PLOT BY : CORY IHDE

PLOT NAME :

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

WISDOT/CADDS SHEET 49



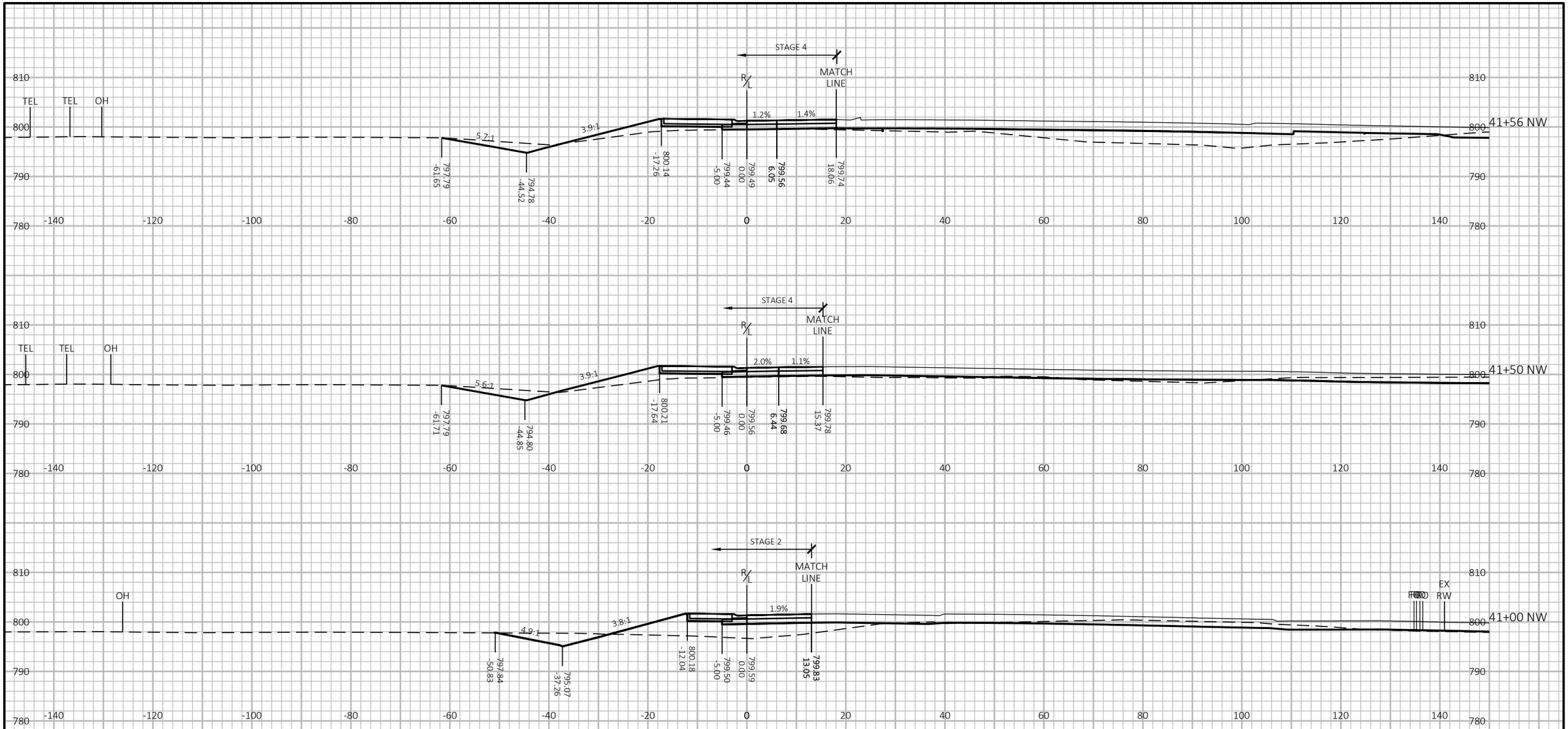
9 9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: RDBT-NE	SHEET 234	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS.DWG
LAYOUT NAME - 34

PLOT DATE : 8/1/2025 8:03 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: RDBT-NW	SHEET 235	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS.DWG
LAYOUT NAME - 35

PLOT DATE : 8/1/2025 8:03 AM

PLOT BY : CORY IHDE

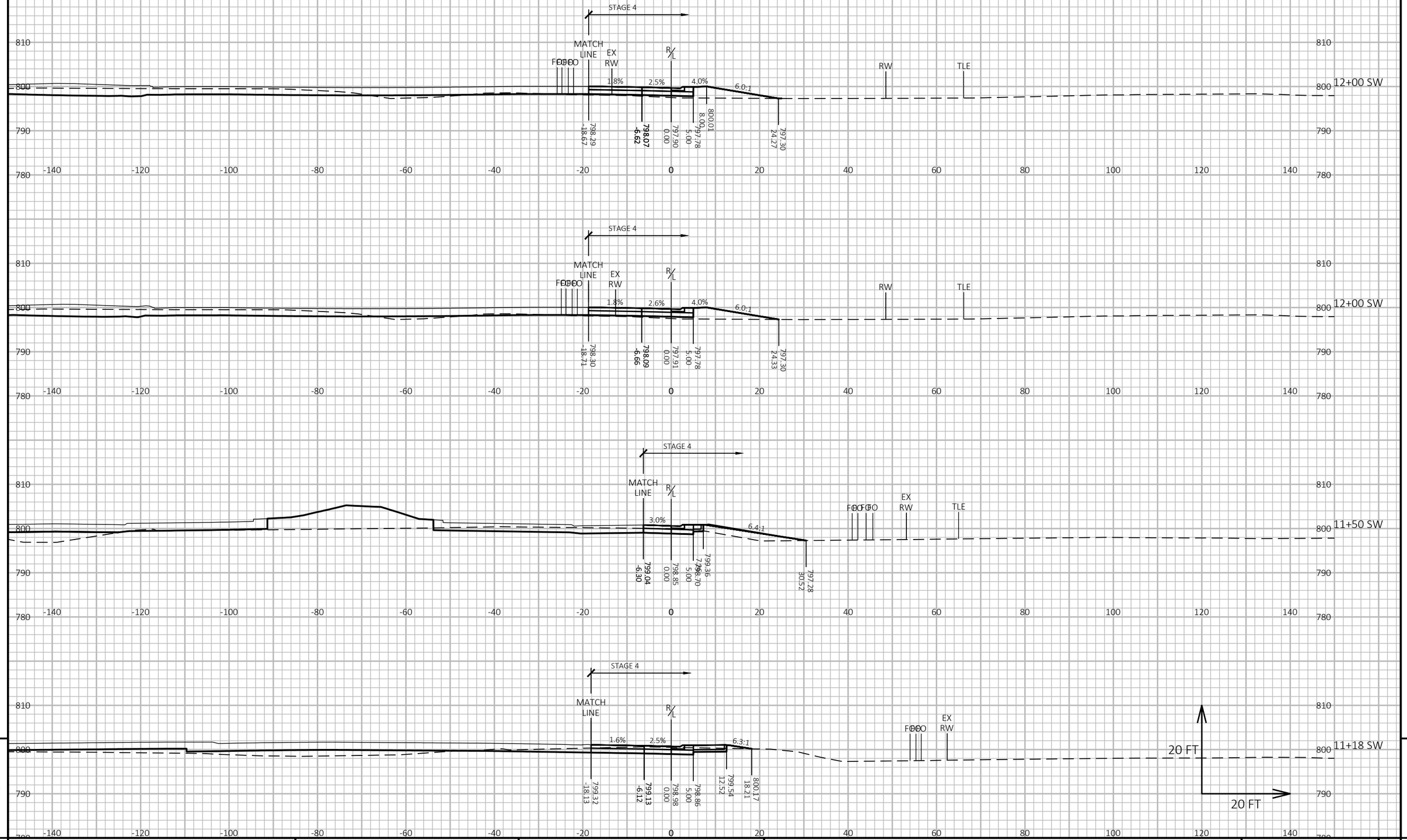
PLOT NAME :

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

WISDOT/CADDS SHEET 49

9

9



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: RDBT-SW	SHEET 236	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS.DWG
LAYOUT NAME - 36

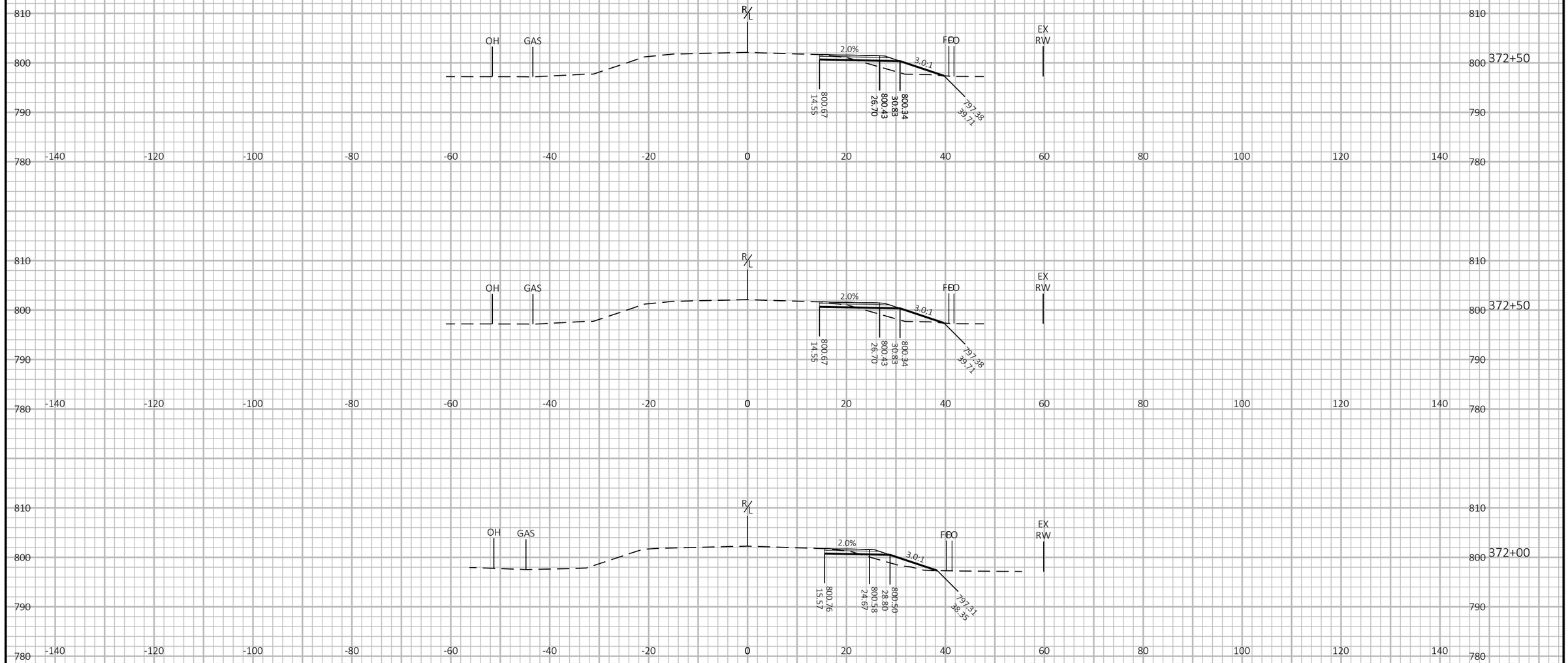
PLOT DATE : 8/1/2025 8:03 AM

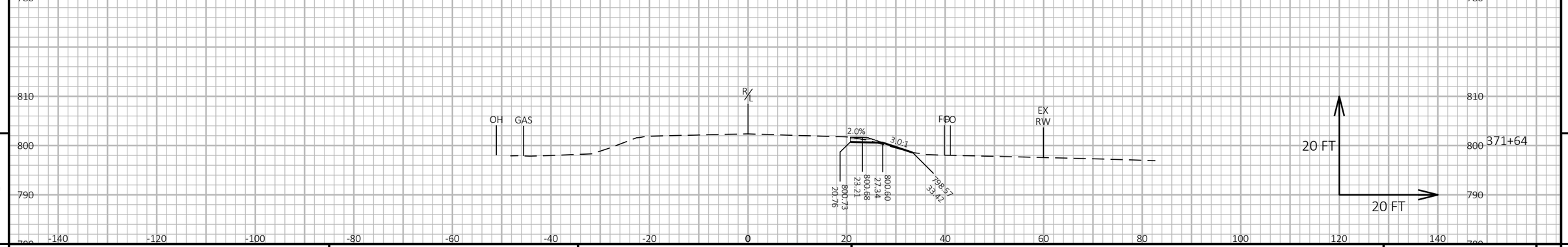
PLOT BY : CORY IHDE

PLOT NAME :

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

WISDOT/CADDS SHEET 49





9

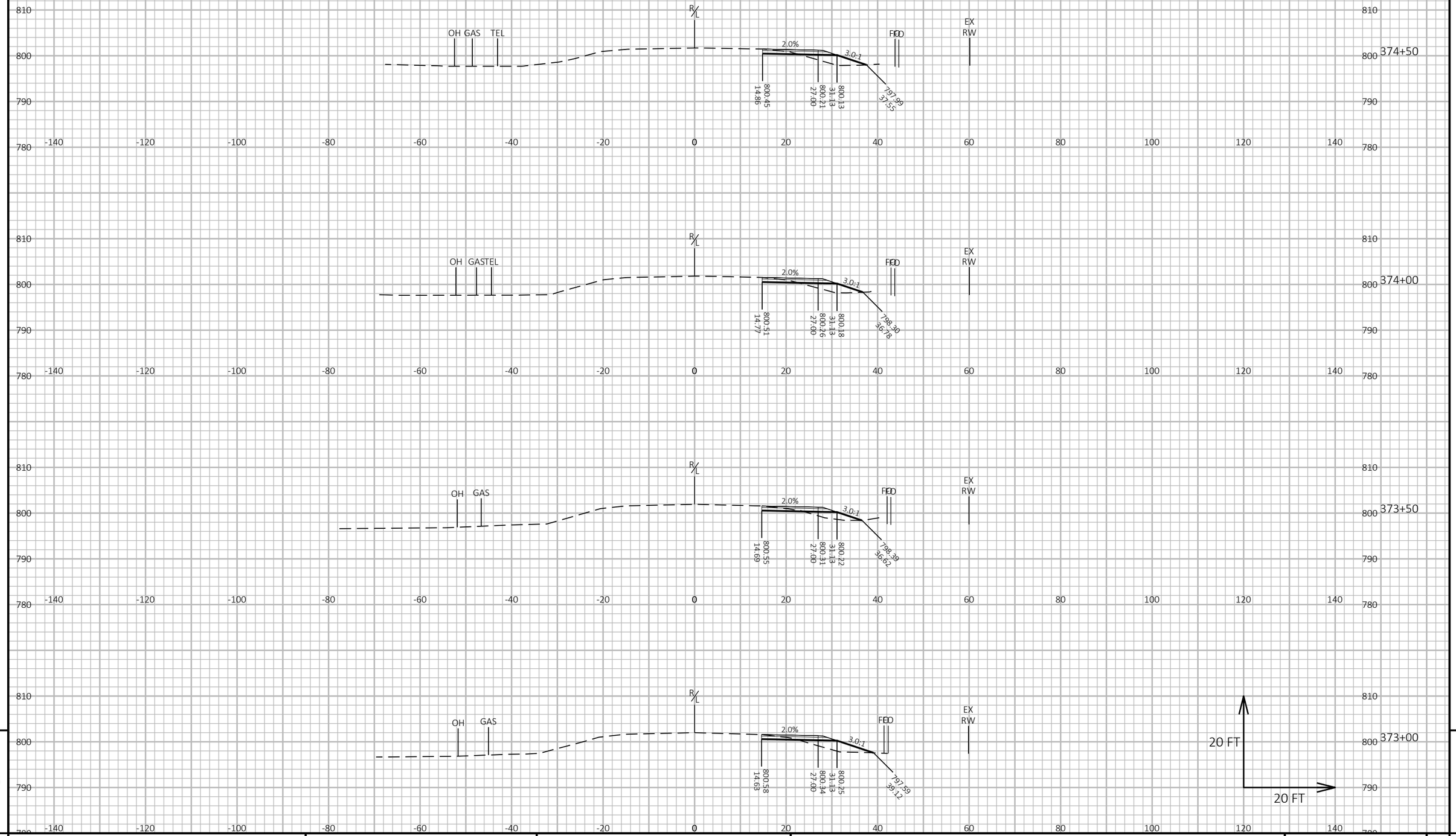
9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: USH 10 STAGE 1 WIDENING	SHEET 237	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS-STAGE 1.DWG
LAYOUT NAME - 01

PLOT DATE : 6/9/2025 3:24 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

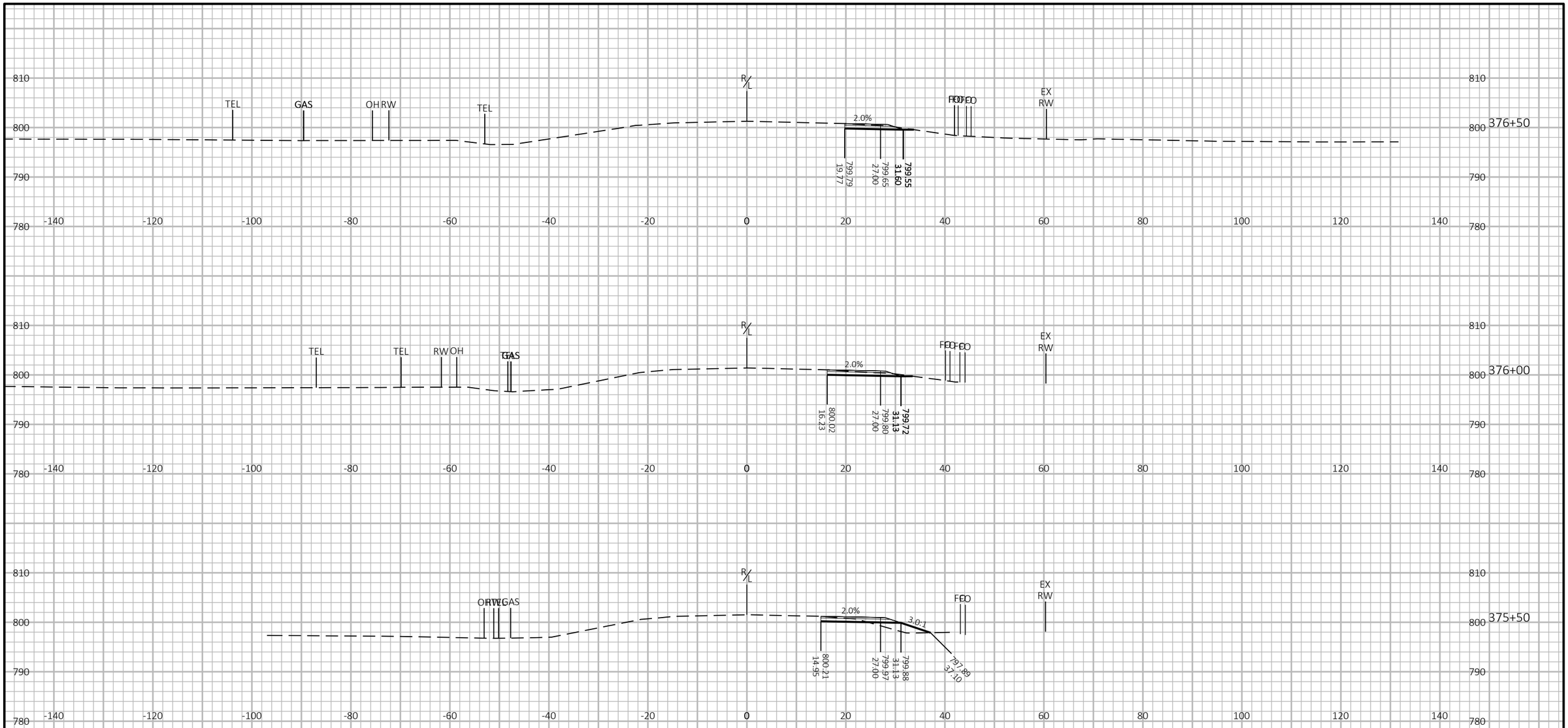


PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: USH 10 STAGE 1 WIDENING	SHEET 238	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS-STAGE 1.DWG
LAYOUT NAME - 02

PLOT DATE : 6/9/2025 3:24 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

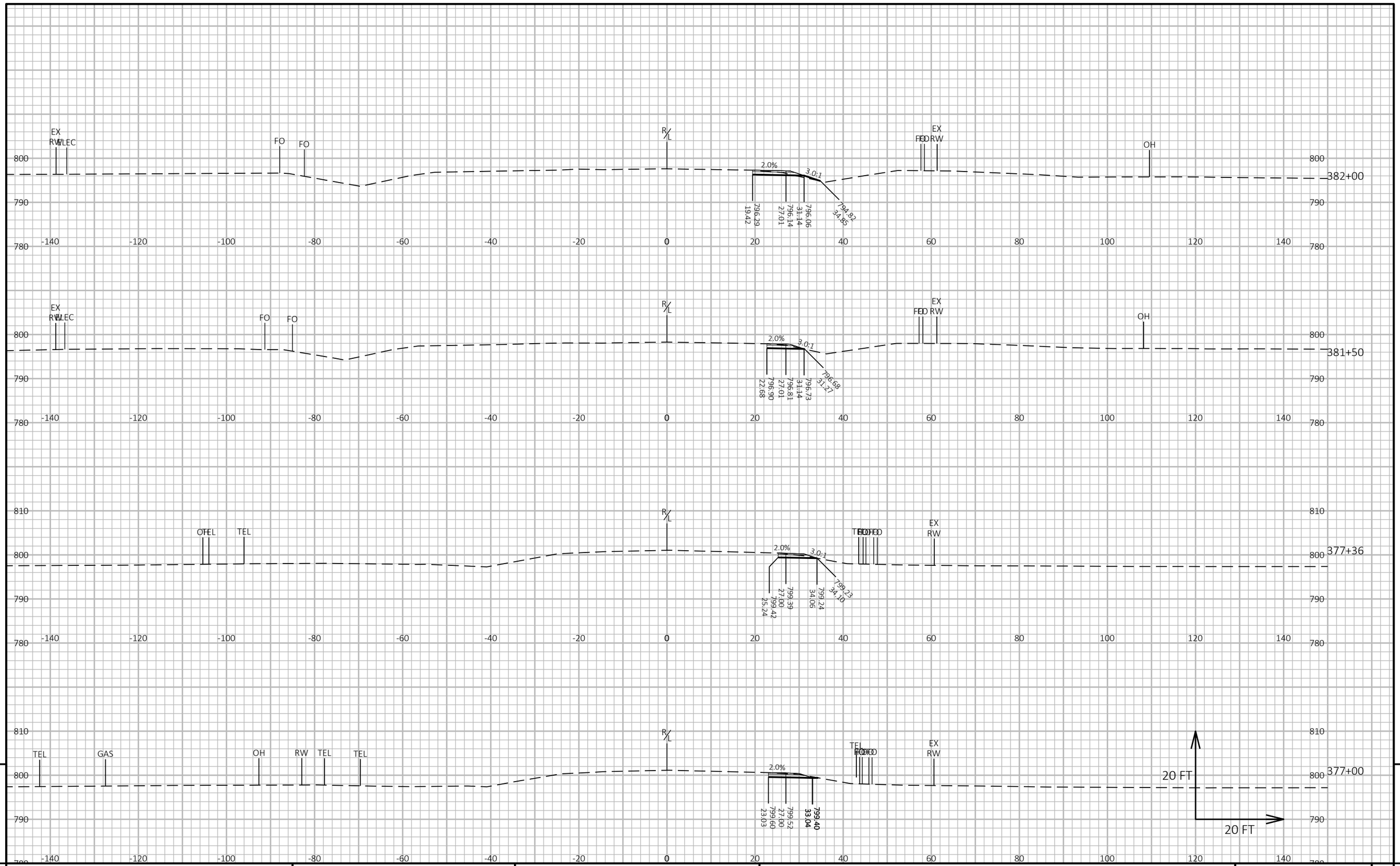
9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: USH 10 STAGE 1 WIDENING	SHEET 239	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS-STAGE 1.DWG
LAYOUT NAME - 03

PLOT DATE : 6/9/2025 3:24 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: USH 10 STAGE 1 WIDENING	SHEET 240	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS-STAGE 1.DWG
LAYOUT NAME - 04

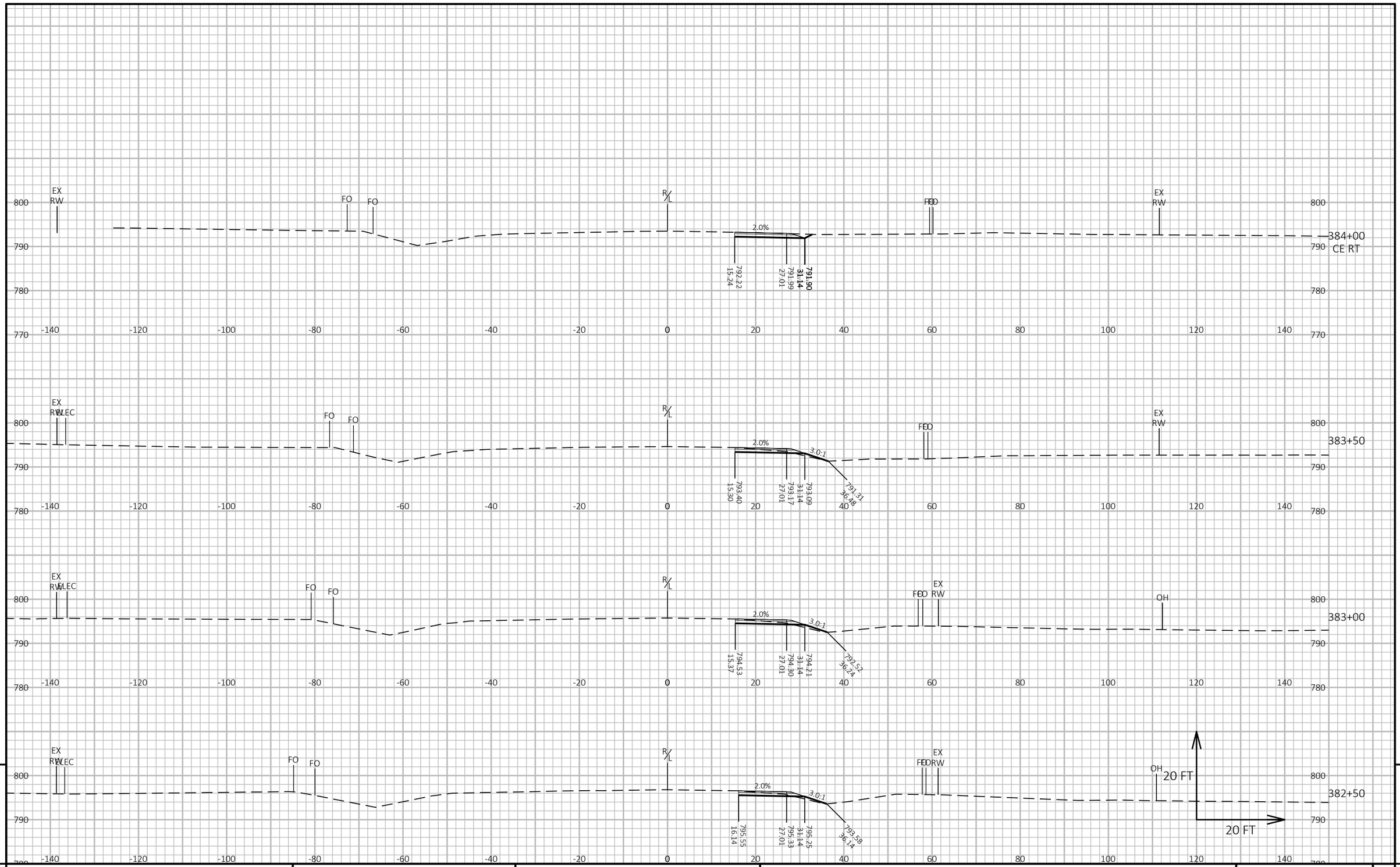
PLOT DATE : 6/9/2025 3:24 PM

PLOT BY : CORY IHDE

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: USH 10 STAGE 1 WIDENING	SHEET 241	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS-STAGE 1.DWG
LAYOUT NAME - 05

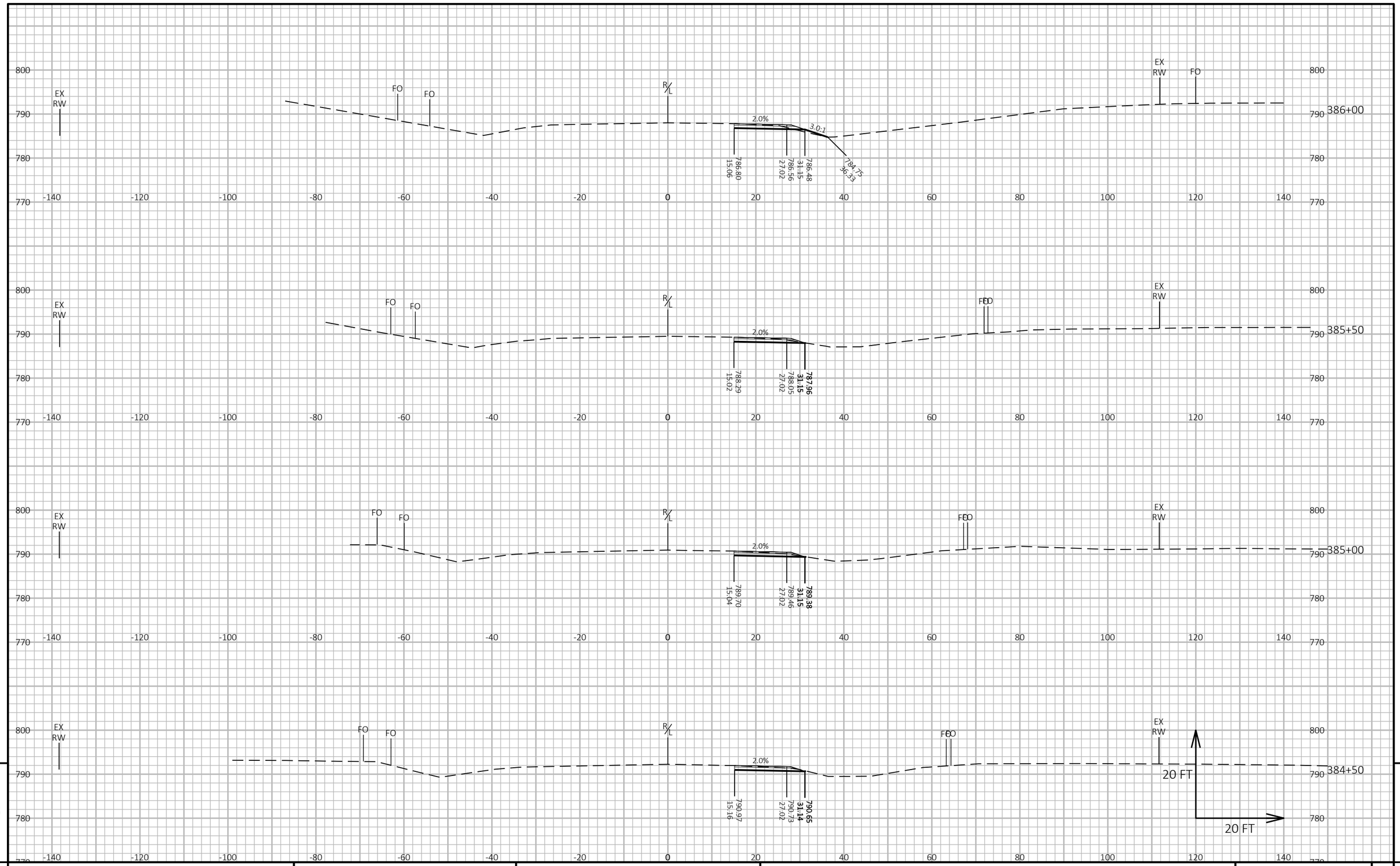
PLOT DATE : 6/9/2025 3:24 PM

PLOT BY : CORY IHDE

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: USH 10 STAGE 1 WIDENING	SHEET 242	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS-STAGE 1.DWG
LAYOUT NAME - 06

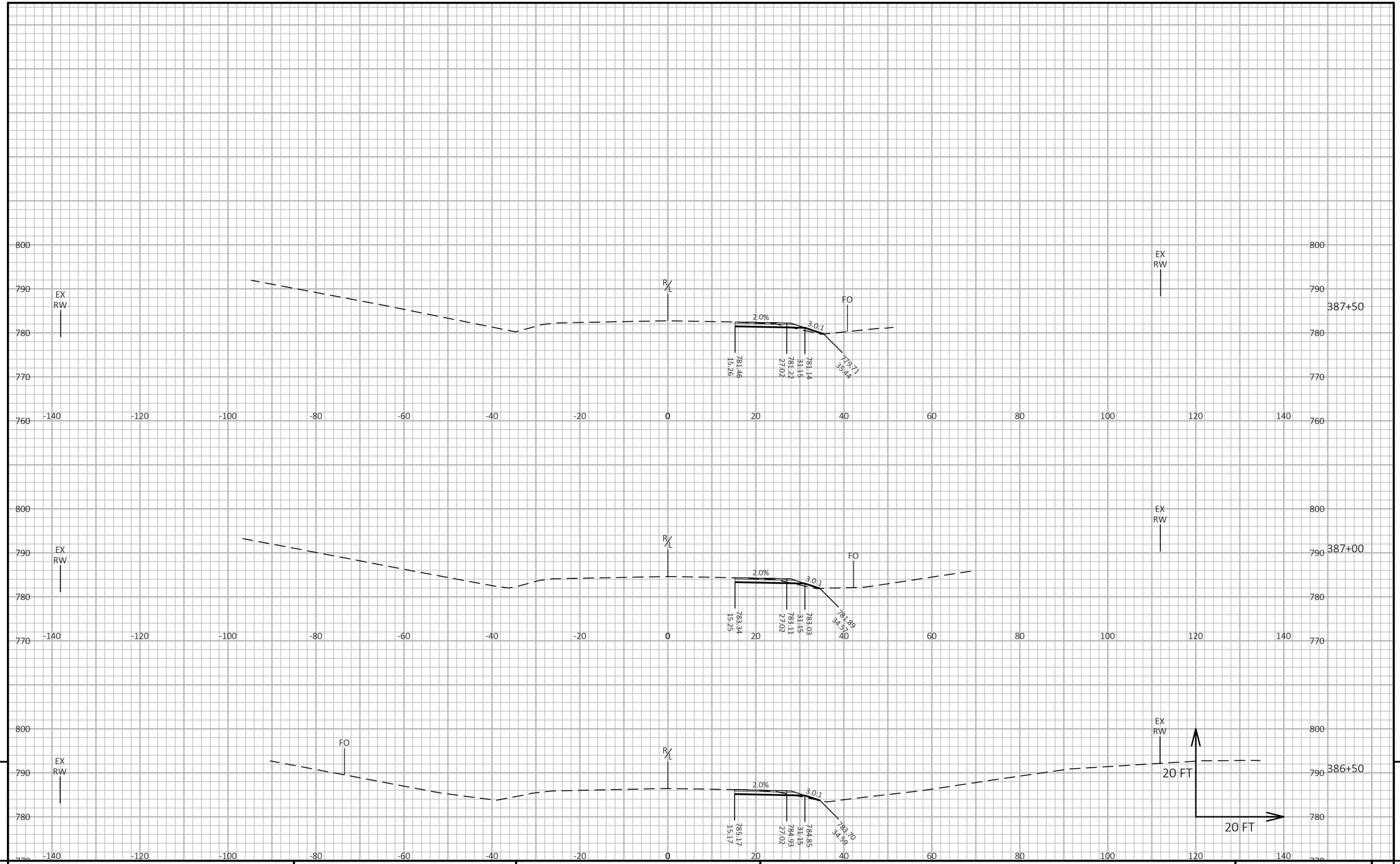
PLOT DATE : 6/9/2025 3:24 PM

PLOT BY : CORY IHDE

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: USH 10 STAGE 1 WIDENING	SHEET 243	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS-STAGE 1.DWG
LAYOUT NAME - 07

PLOT DATE : 6/9/2025 3:25 PM

PLOT BY : CORY IHDE

PLOT NAME :

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

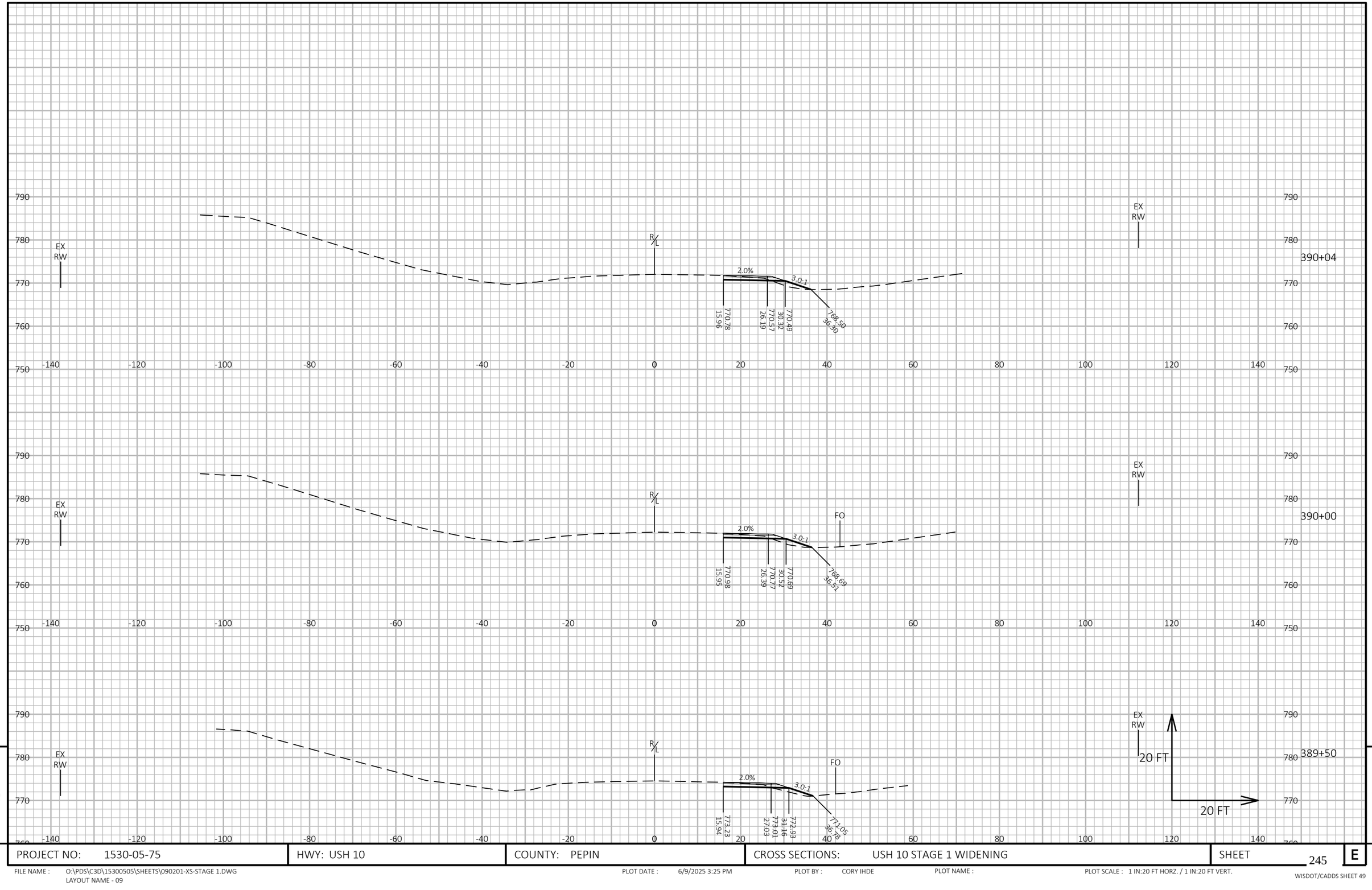
WISDOT/CADDS SHEET 49

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: USH 10 STAGE 1 WIDENING	SHEET 244	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS-STAGE 1.DWG
LAYOUT NAME - 08

PLOT DATE : 6/9/2025 3:25 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

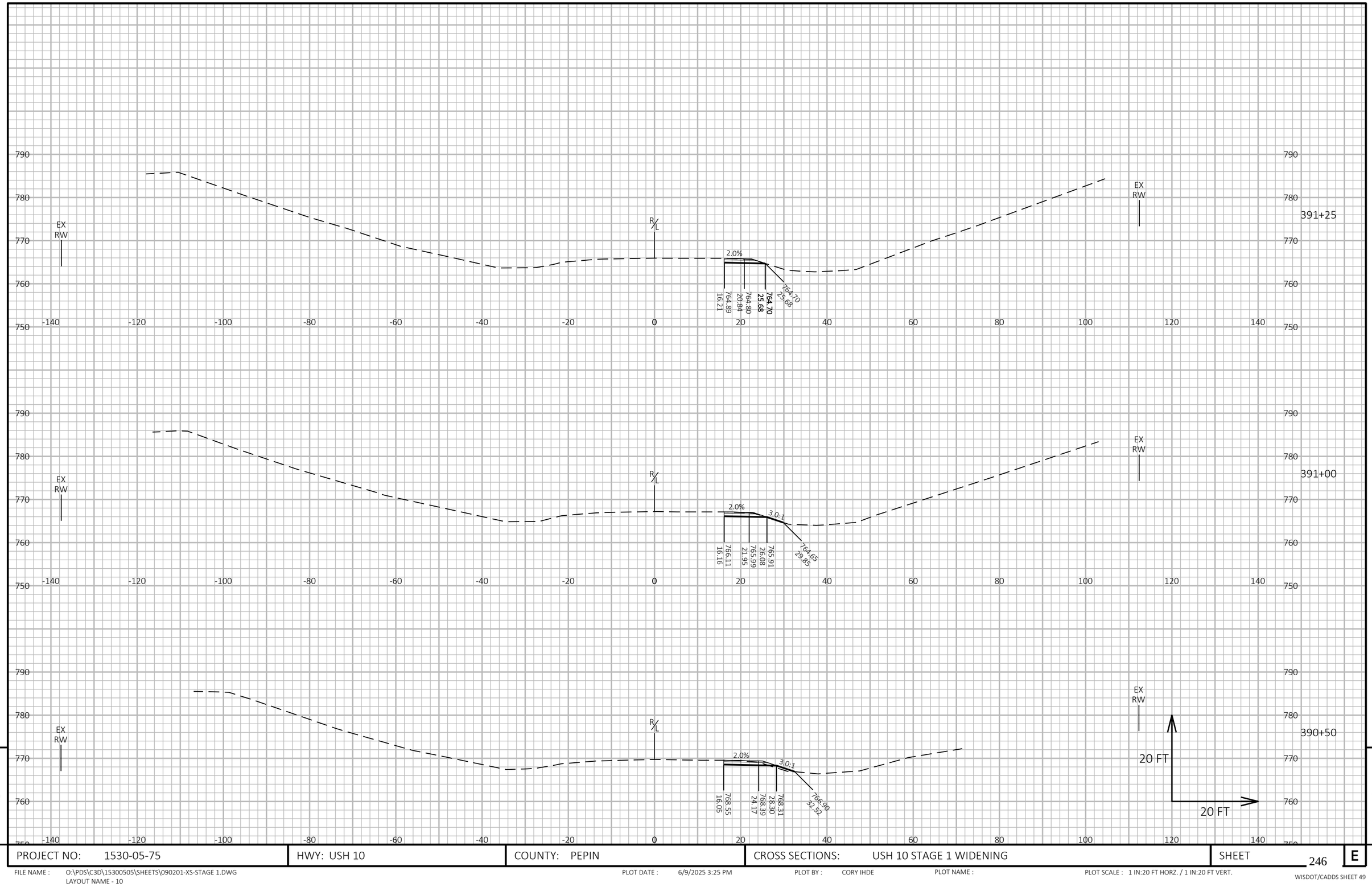
9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: USH 10 STAGE 1 WIDENING	SHEET 245	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS-STAGE 1.DWG
LAYOUT NAME - 09

PLOT DATE : 6/9/2025 3:25 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: USH 10 STAGE 1 WIDENING	SHEET 246	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS-STAGE 1.DWG
LAYOUT NAME - 10

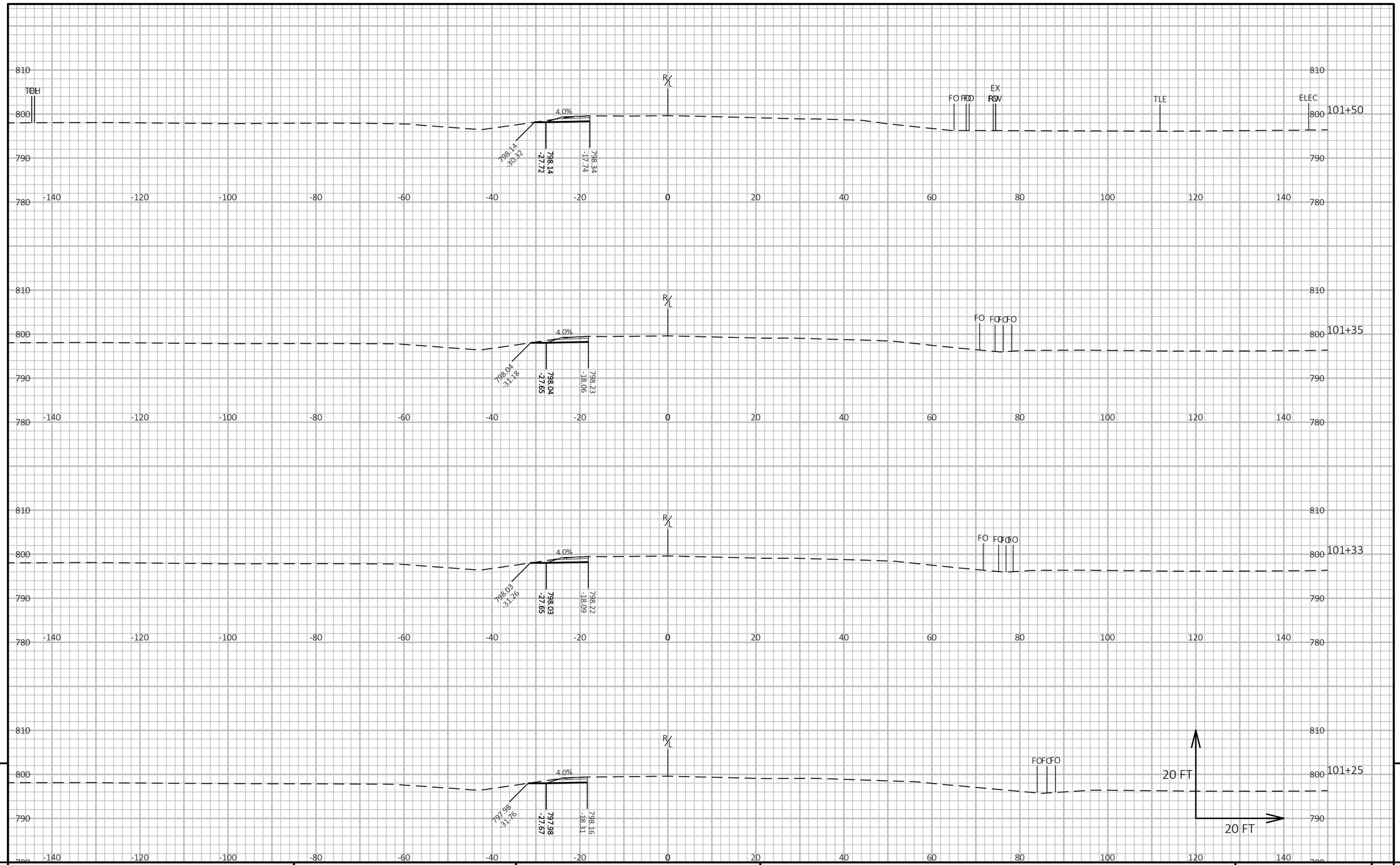
PLOT DATE : 6/9/2025 3:25 PM

PLOT BY : CORY IHDE

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: STH 25 STAGE 1 WIDENING	SHEET 247	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS-STAGE 1.DWG
LAYOUT NAME - 11

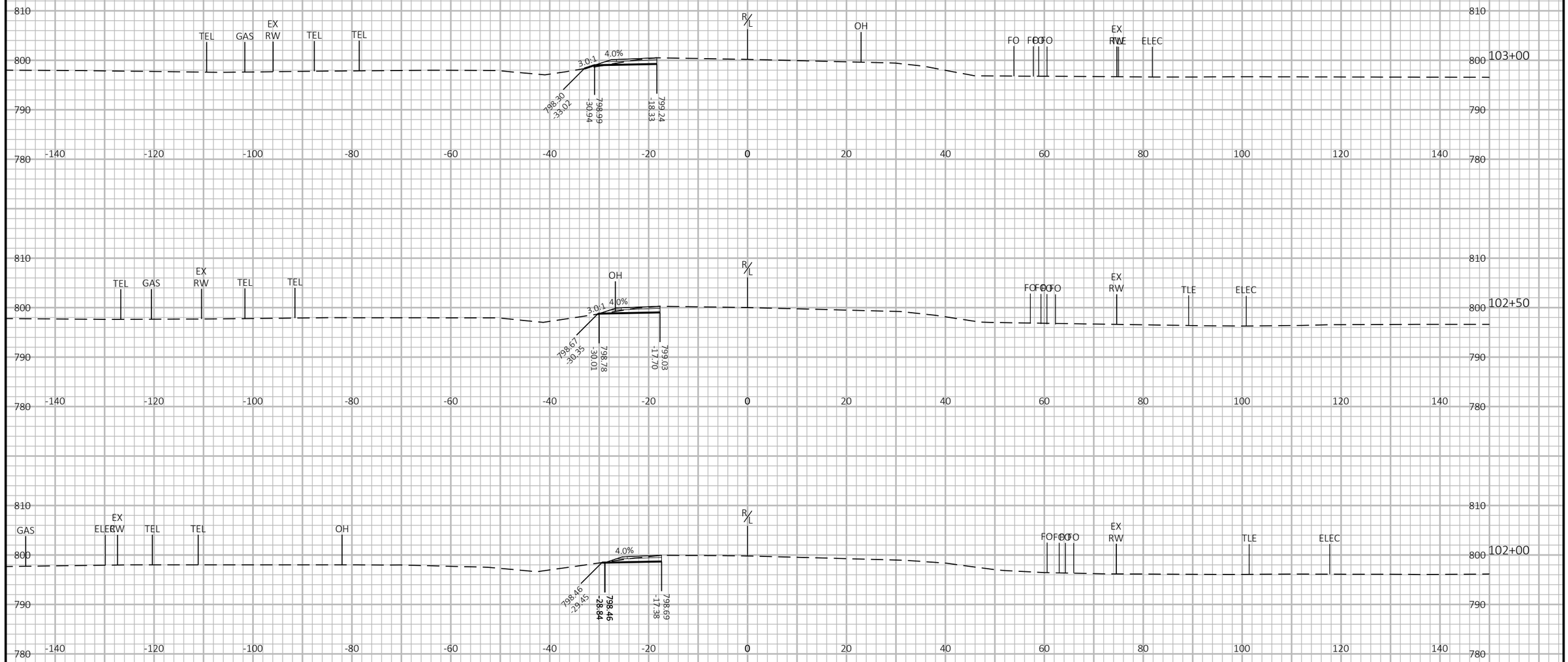
PLOT DATE : 6/9/2025 3:25 PM

PLOT BY : CORY IHDE

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: STH 25 STAGE 1 WIDENING	SHEET 248	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS-STAGE 1.DWG
LAYOUT NAME - 12

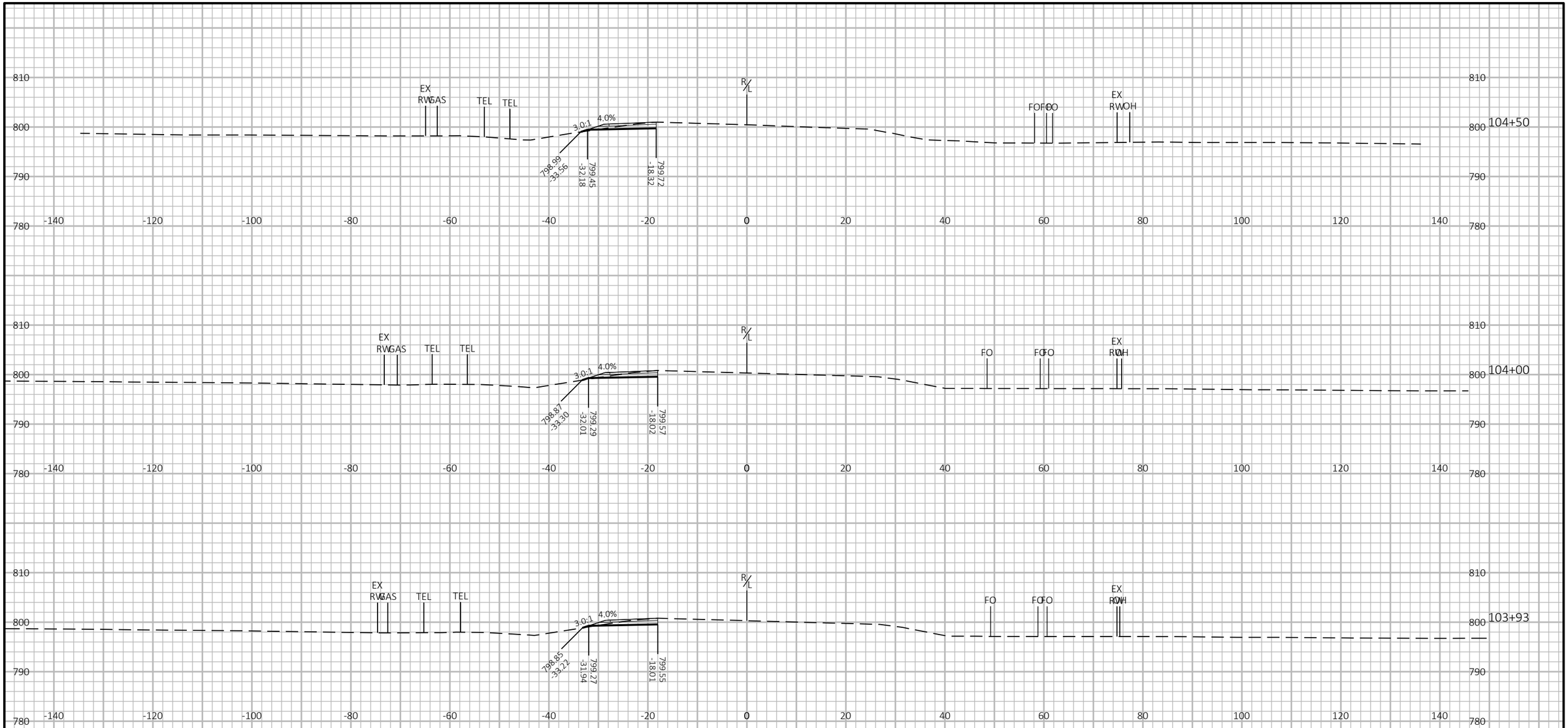
PLOT DATE : 6/9/2025 3:25 PM

PLOT BY : CORY IHDE

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: STH 25 STAGE 1 WIDENING	SHEET 249	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS-STAGE 1.DWG
LAYOUT NAME - 13

PLOT DATE : 6/9/2025 3:25 PM

PLOT BY : CORY IHDE

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: STH 25 STAGE 1 WIDENING	SHEET 250	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS-STAGE 1.DWG
LAYOUT NAME - 14

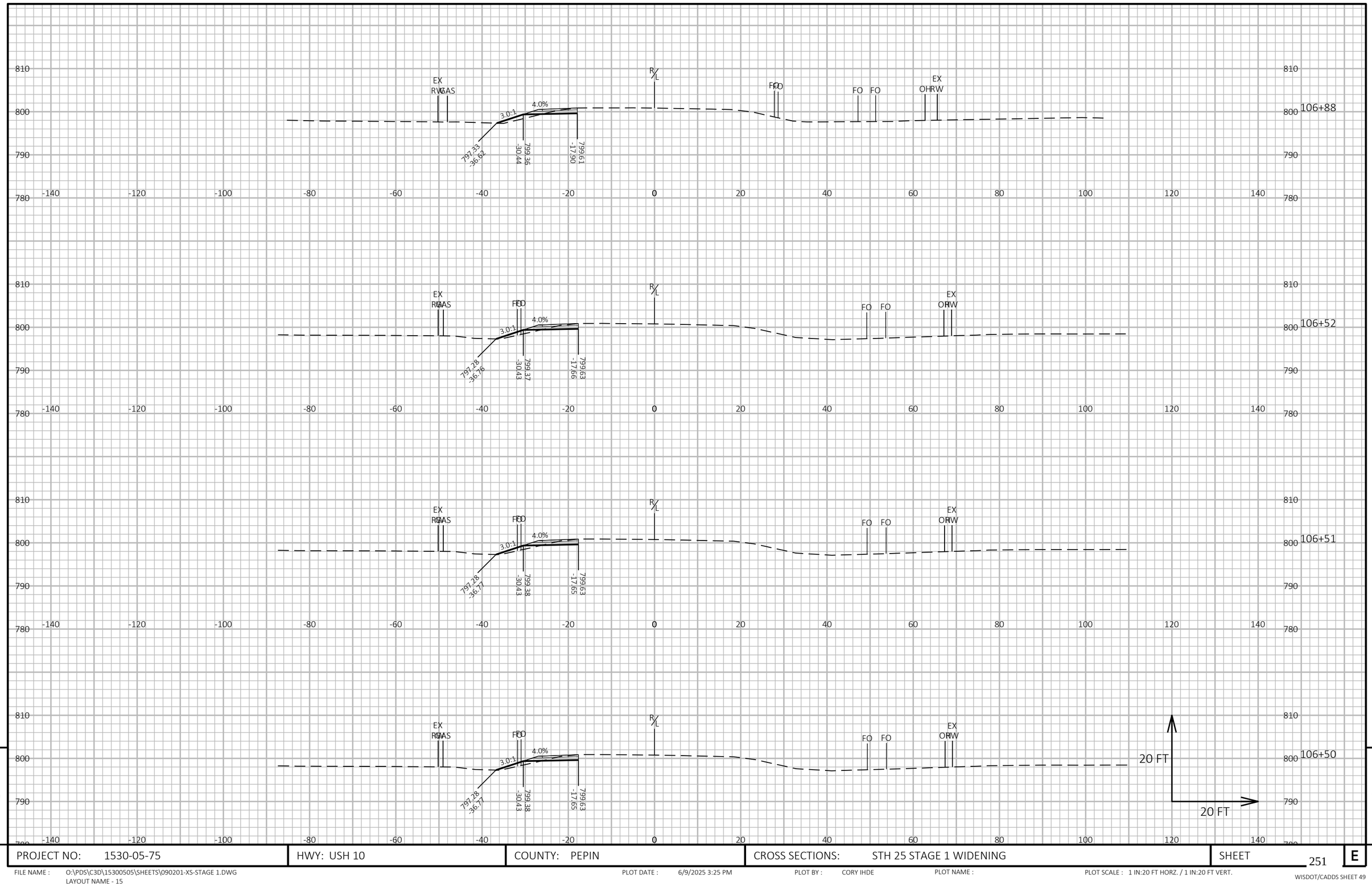
PLOT DATE : 6/9/2025 3:25 PM

PLOT BY : CORY IHDE

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: STH 25 STAGE 1 WIDENING	SHEET 251	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS-STAGE 1.DWG
LAYOUT NAME - 15

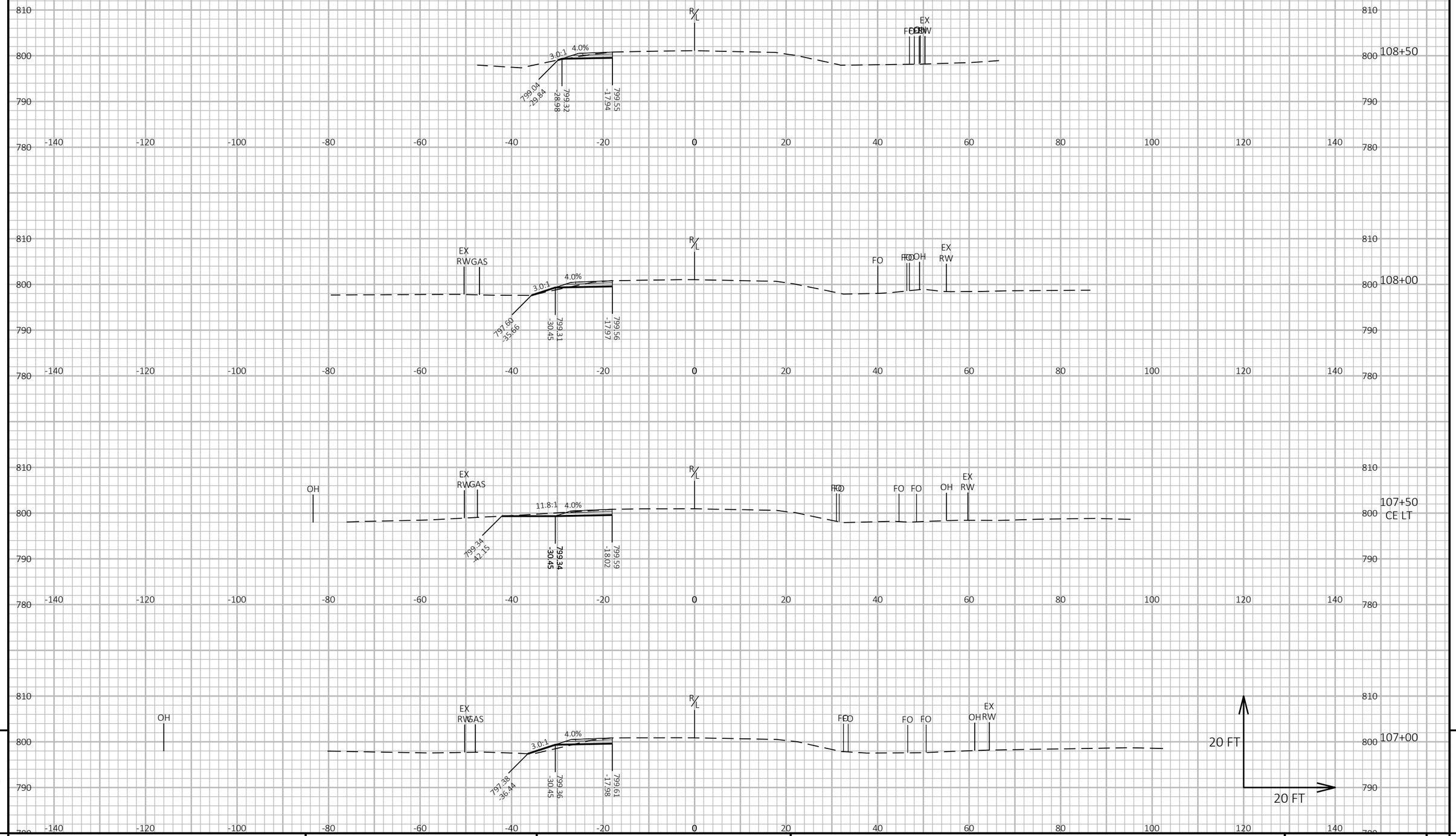
PLOT DATE : 6/9/2025 3:25 PM

PLOT BY : CORY IHDE

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: STH 25 STAGE 1 WIDENING	SHEET 252	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS-STAGE 1.DWG
LAYOUT NAME - 16

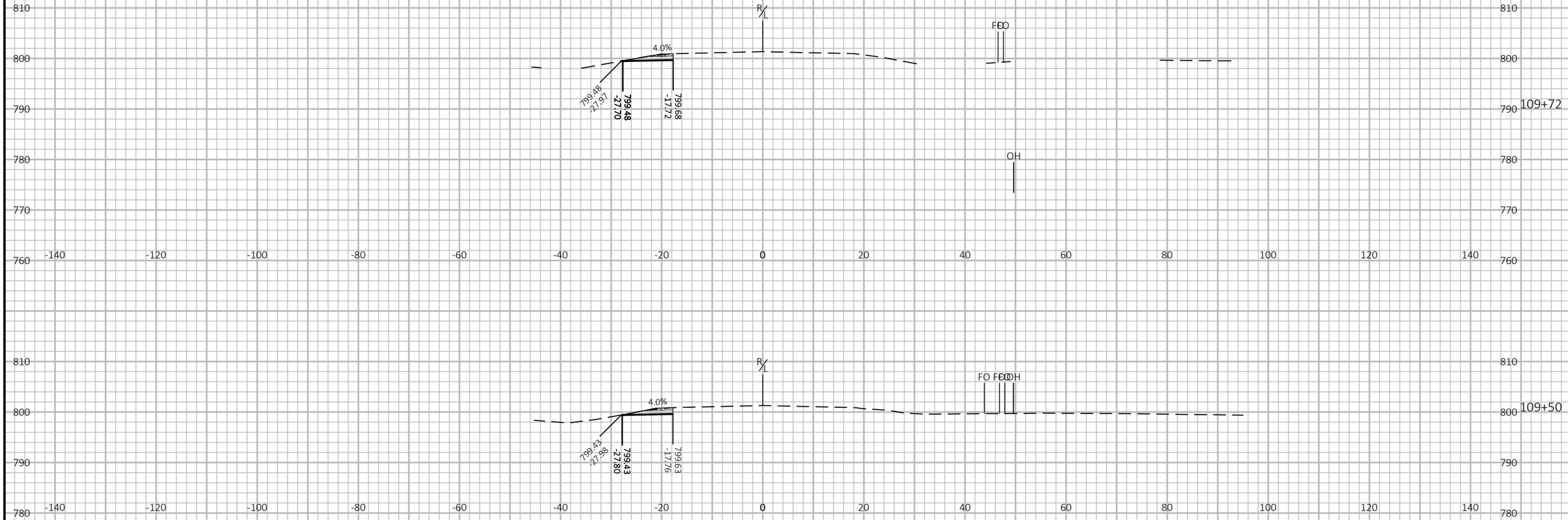
PLOT DATE : 6/9/2025 3:25 PM

PLOT BY : CORY IHDE

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: STH 25 STAGE 1 WIDENING	SHEET 253	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS-STAGE 1.DWG
LAYOUT NAME - 17

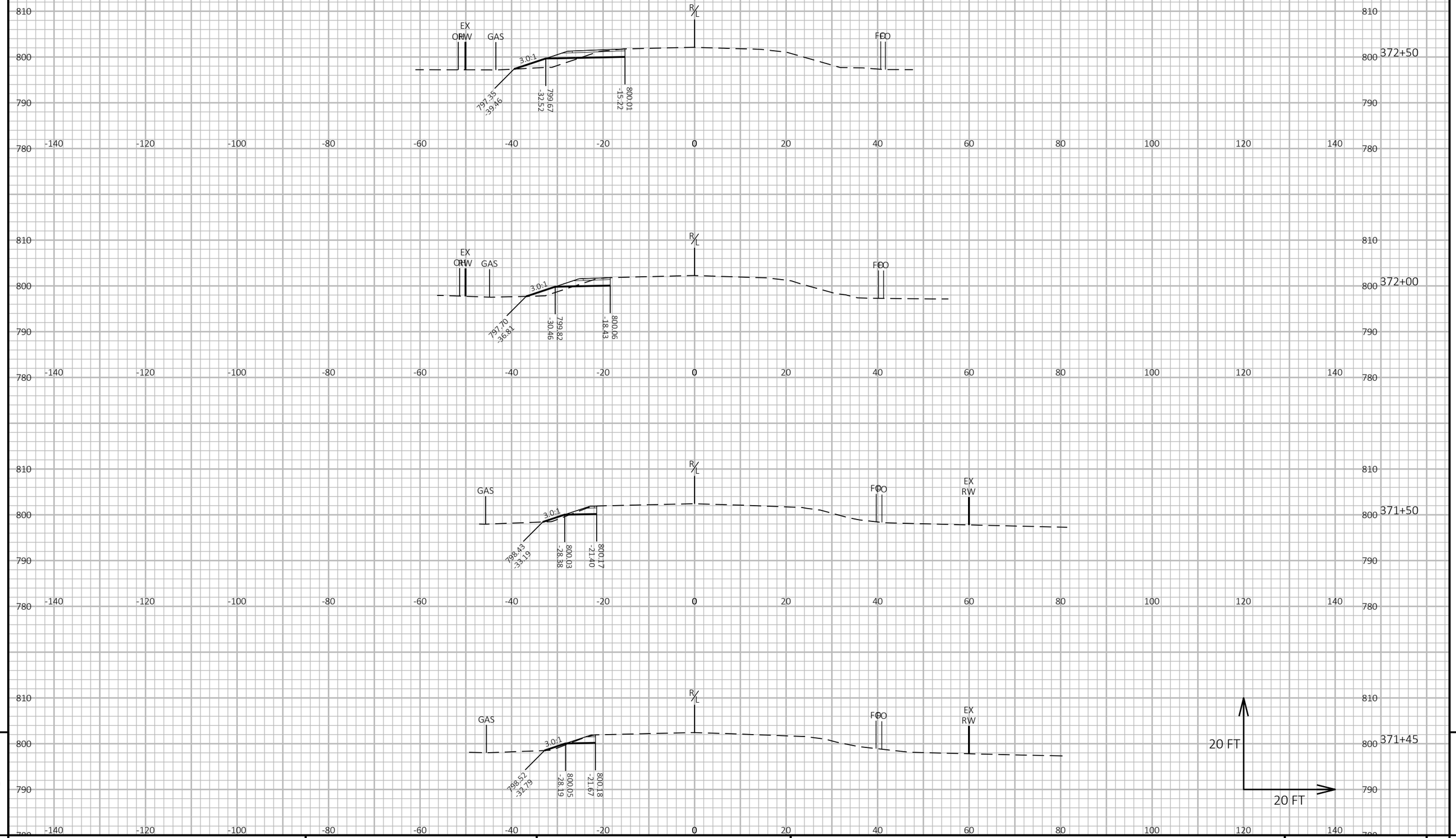
PLOT DATE : 6/9/2025 3:25 PM

PLOT BY : CORY IHDE

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: USH 10 WEST STAGE 2 WIDENING	SHEET 254	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS-STAGE 2.DWG
LAYOUT NAME - 01

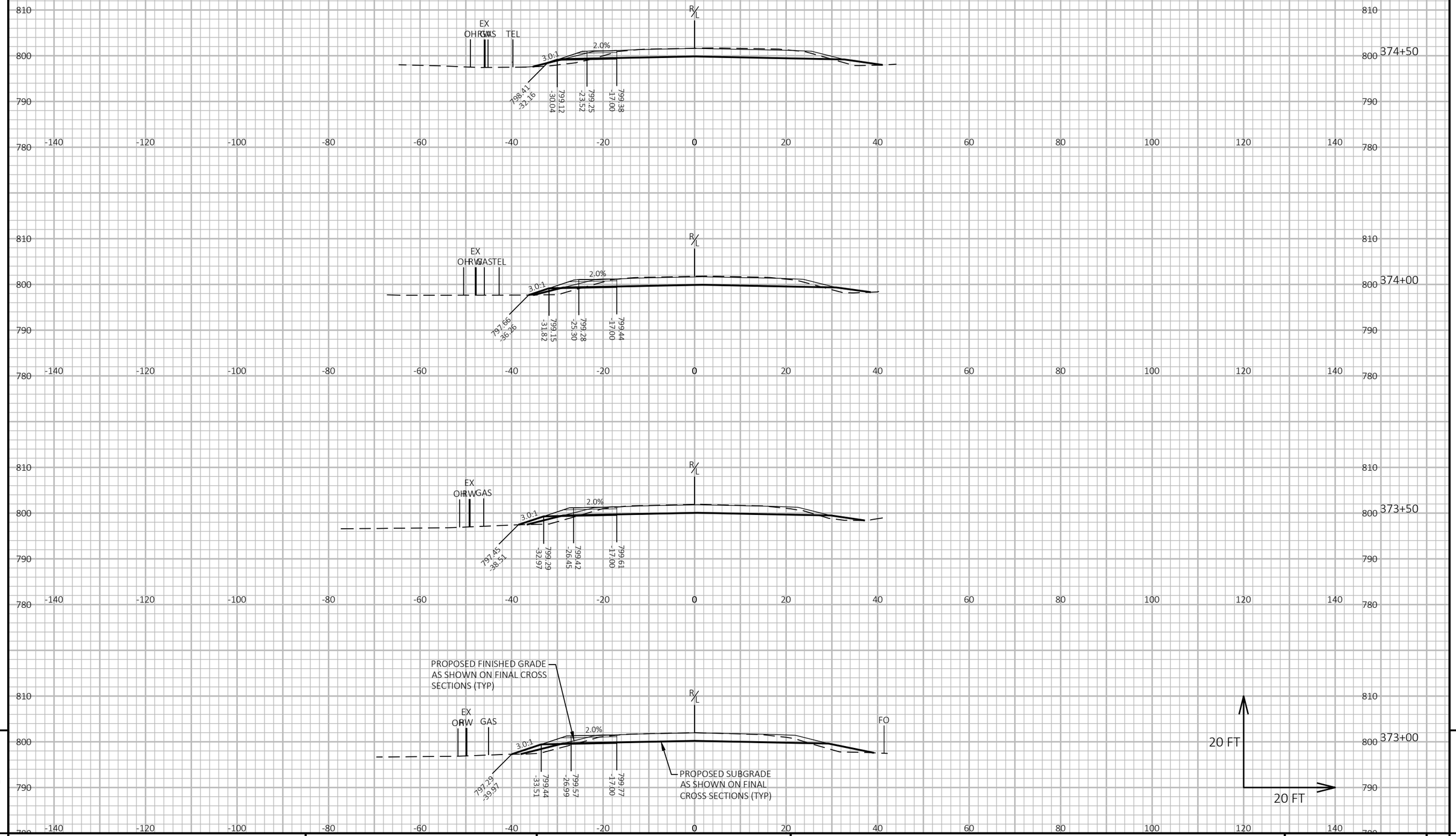
PLOT DATE : 6/9/2025 10:49 AM

PLOT BY : LORI ENGEN

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: USH 10 WEST STAGE 2 WIDENING	SHEET 255	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS-STAGE 2.DWG
LAYOUT NAME - 02

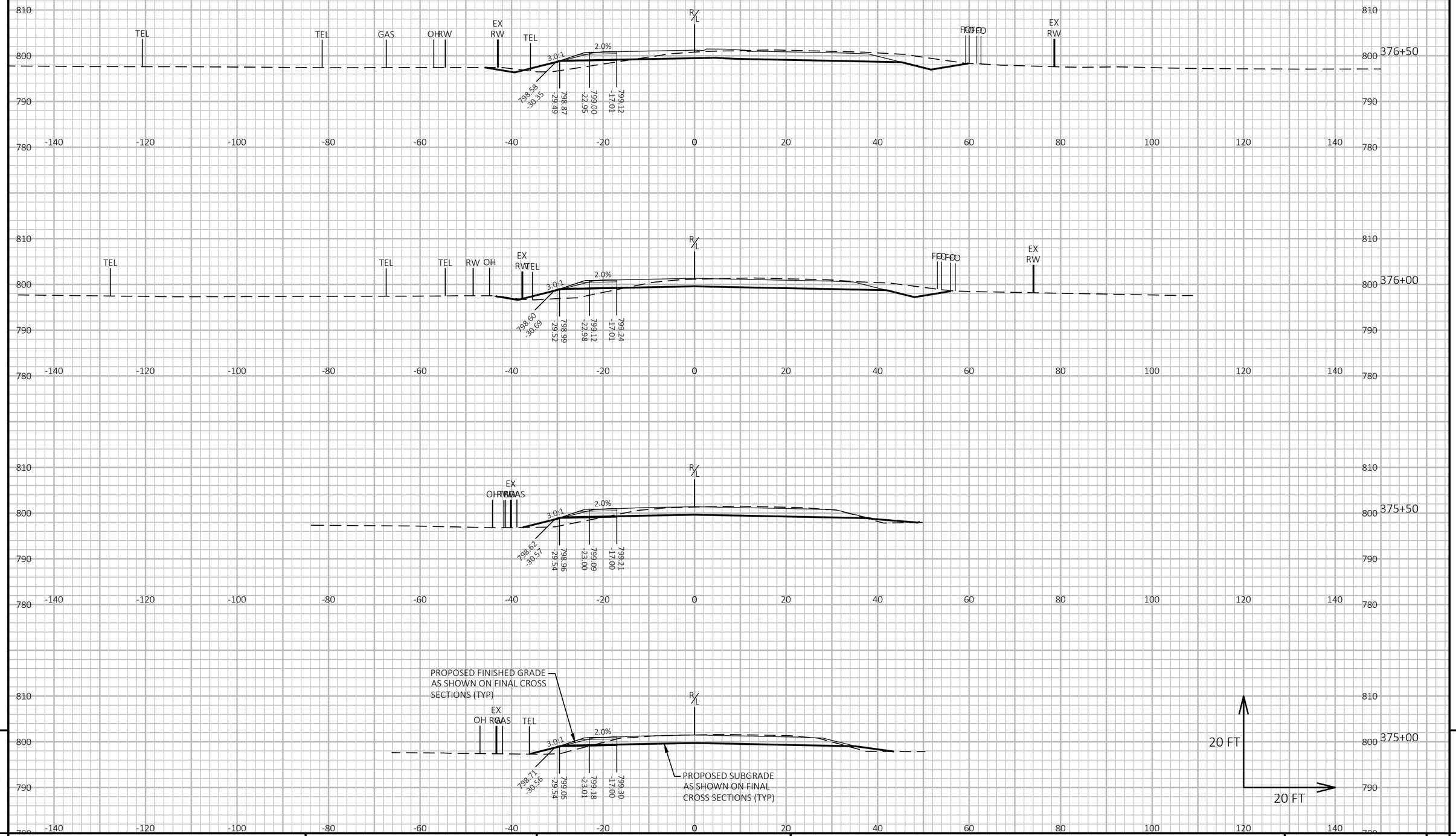
PLOT DATE : 6/9/2025 10:49 AM

PLOT BY : LORI ENGEN

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: USH 10 WEST STAGE 2 WIDENING	SHEET 256	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS-STAGE 2.DWG
LAYOUT NAME - 03

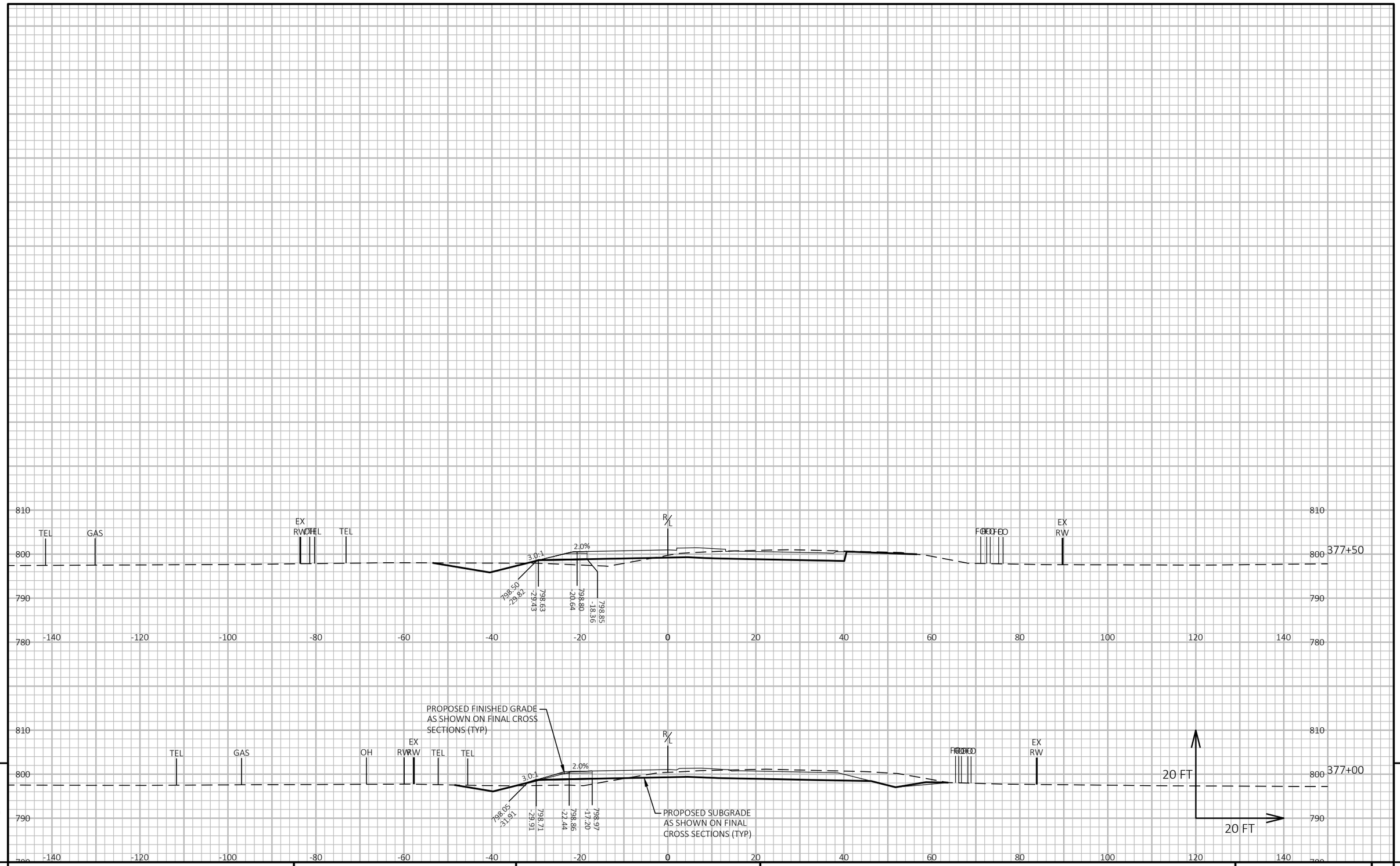
PLOT DATE : 6/9/2025 10:49 AM

PLOT BY : LORI ENGEN

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: USH 10 WEST STAGE 2 WIDENING	SHEET 257	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS-STAGE 2.DWG
LAYOUT NAME - 04

PLOT DATE : 6/9/2025 10:49 AM

PLOT BY : LORI ENGEN

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: USH 10 WEST STAGE 2 WIDENING	SHEET 258	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS-STAGE 2.DWG
LAYOUT NAME - 05

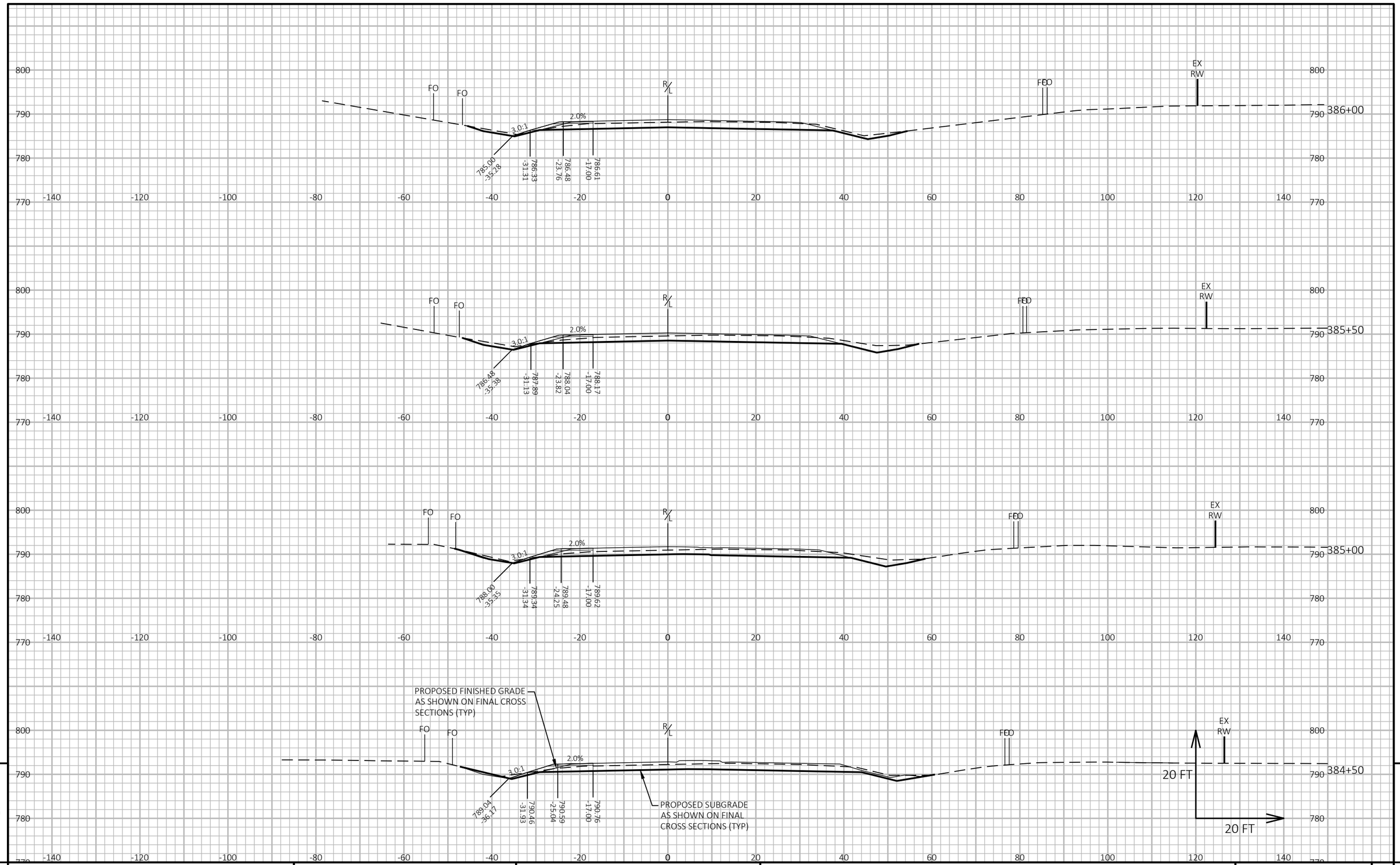
PLOT DATE : 6/9/2025 10:49 AM

PLOT BY : LORI ENGEN

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: USH 10 WEST STAGE 2 WIDENING	SHEET 259	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS-STAGE 2.DWG
LAYOUT NAME - 06

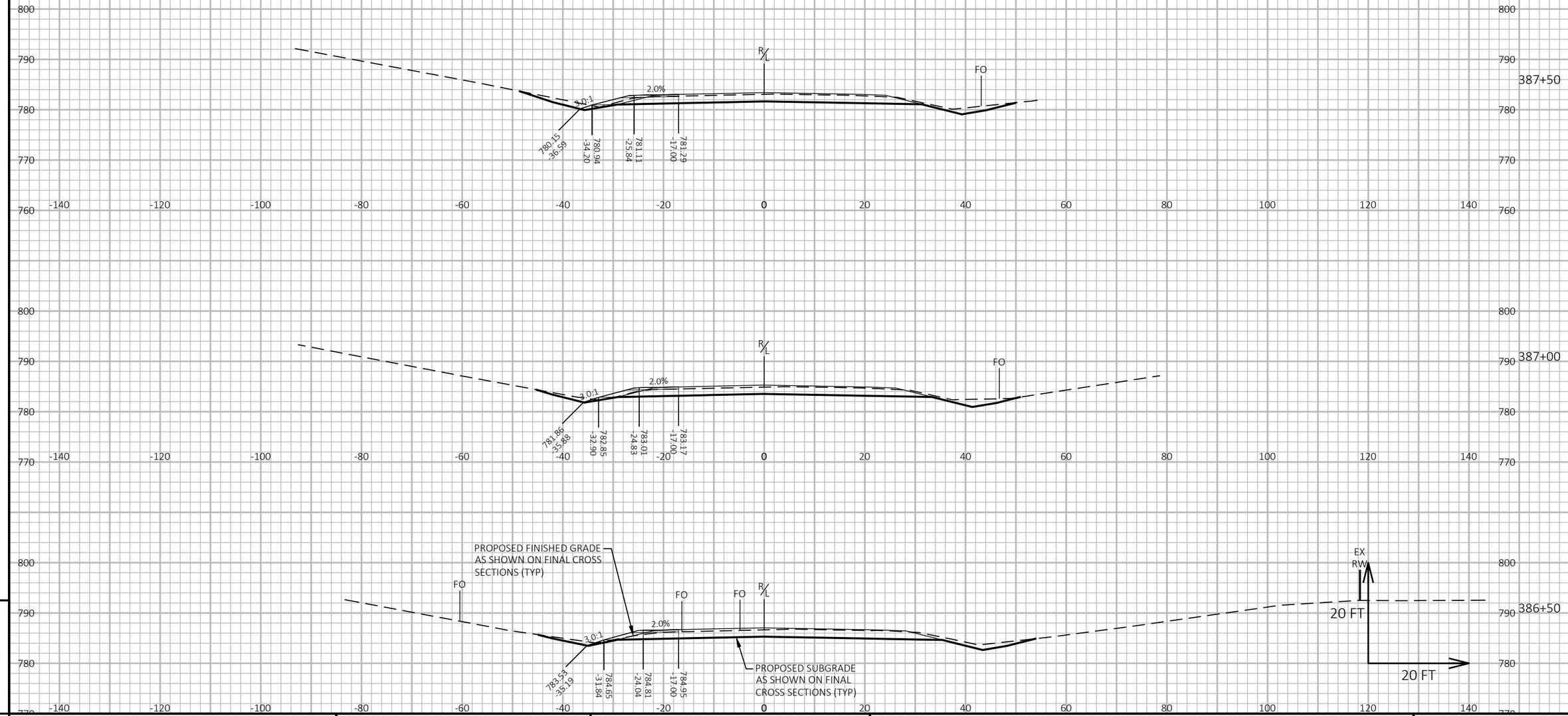
PLOT DATE : 6/9/2025 10:49 AM

PLOT BY : LORI ENGEN

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: USH 10 WEST STAGE 2 WIDENING	SHEET 260	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS-STAGE 2.DWG
LAYOUT NAME - 07

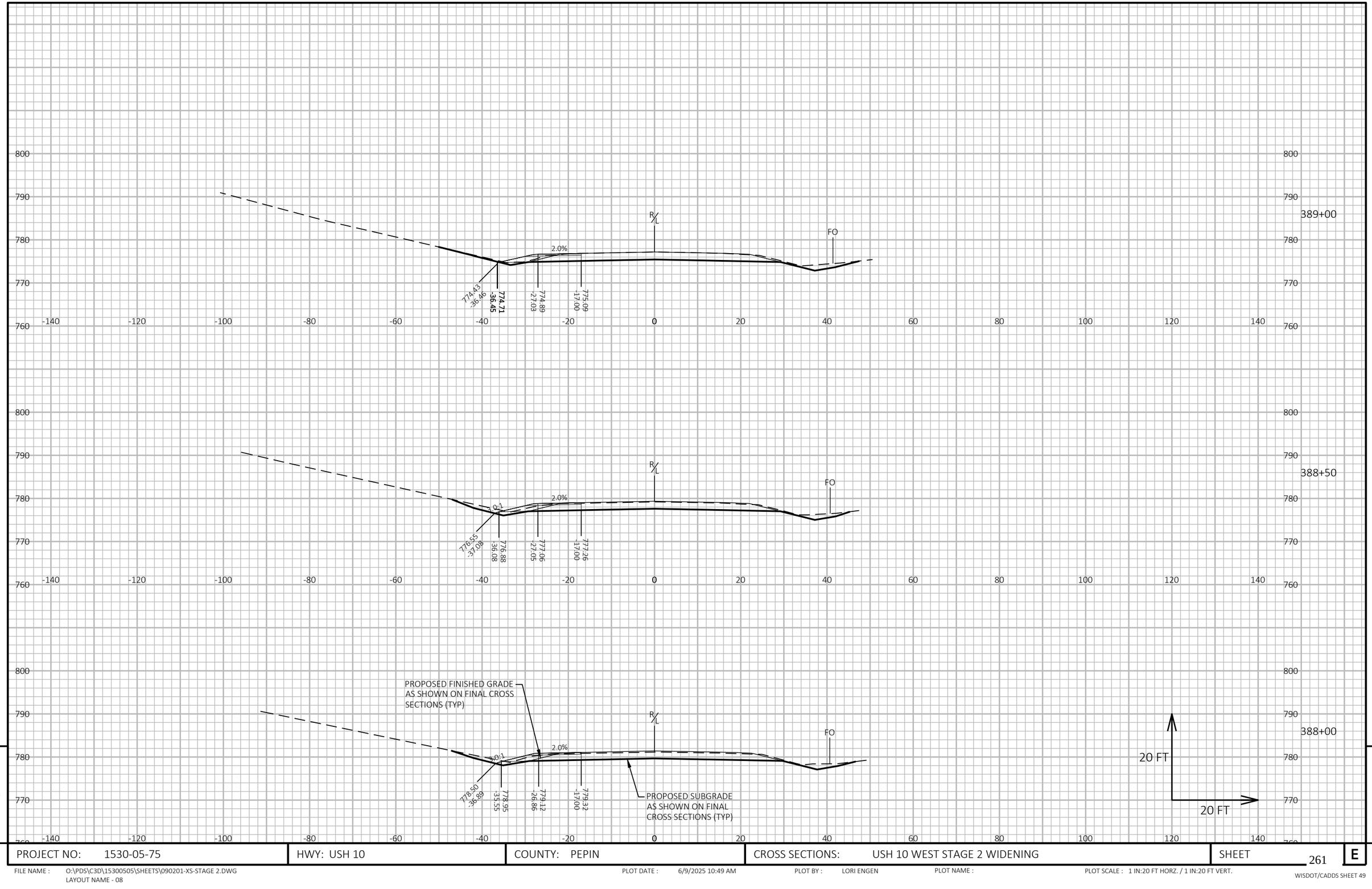
PLOT DATE : 6/9/2025 10:49 AM

PLOT BY : LORI ENGEN

PLOT NAME :

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

WISDOT/CADDS SHEET 49

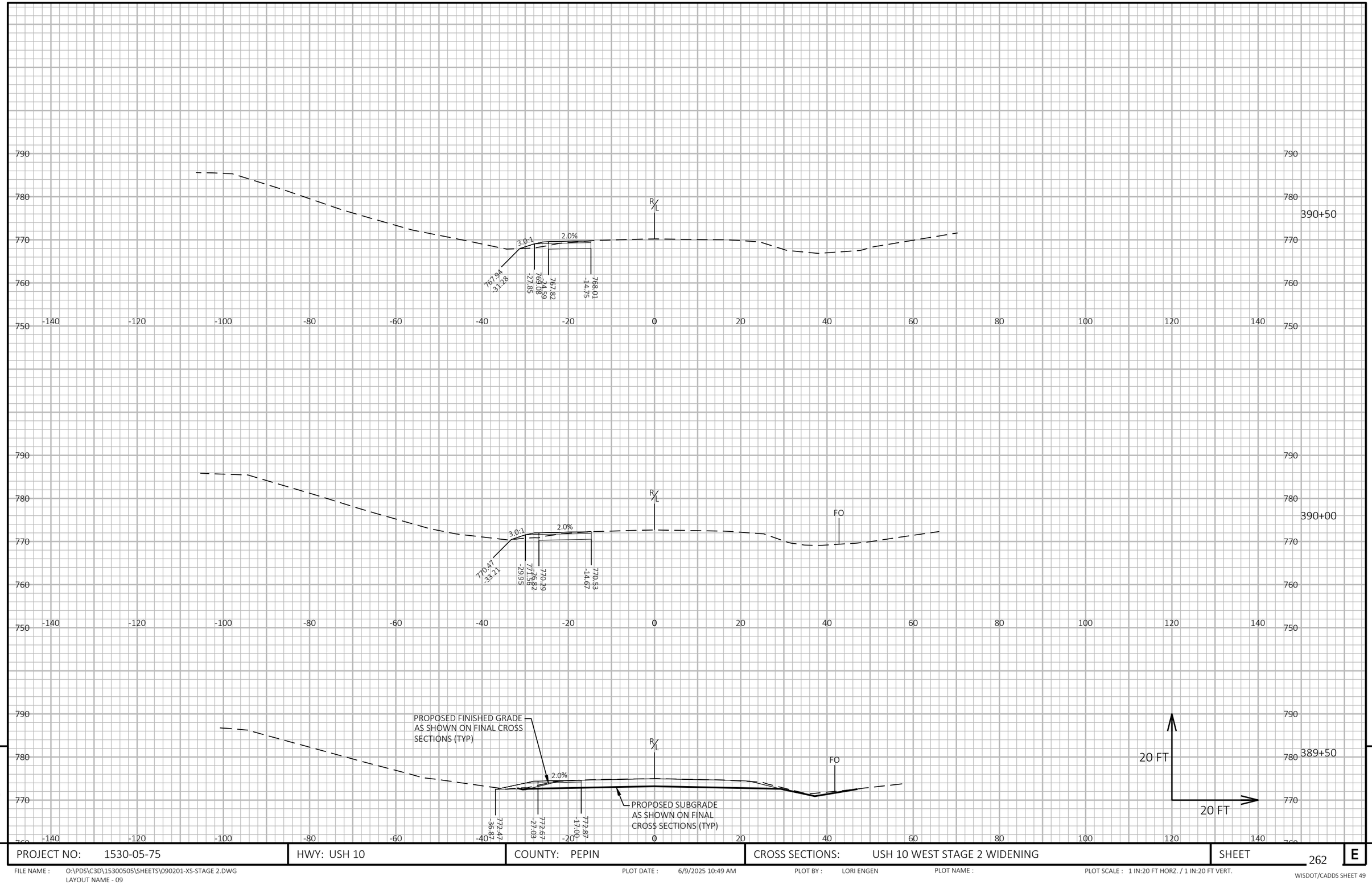


PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: USH 10 WEST STAGE 2 WIDENING	SHEET 261	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS-STAGE 2.DWG
LAYOUT NAME - 08

PLOT DATE : 6/9/2025 10:49 AM PLOT BY : LORI ENGEN PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: USH 10 WEST STAGE 2 WIDENING	SHEET 262	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS-STAGE 2.DWG
LAYOUT NAME - 09

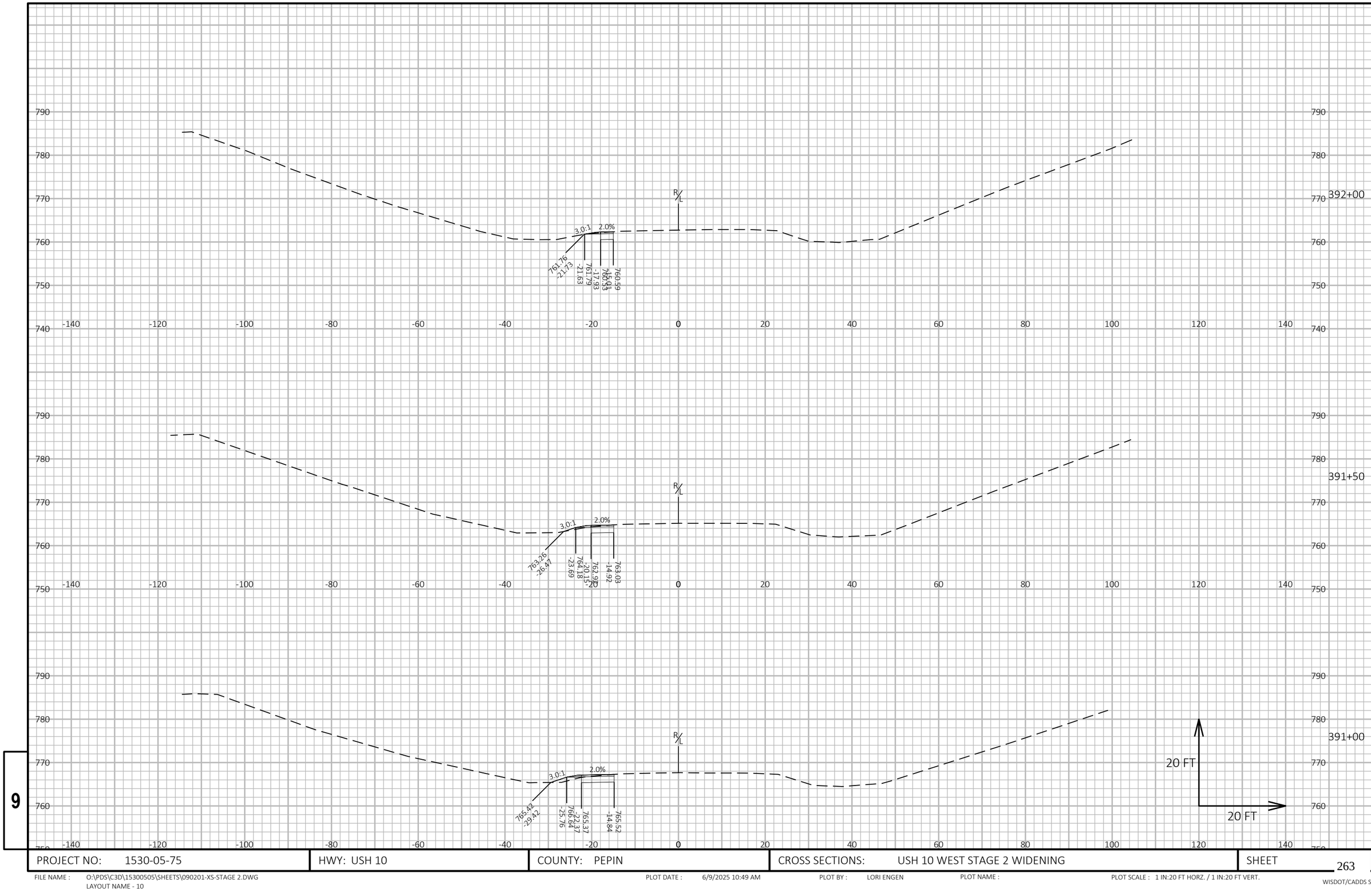
PLOT DATE : 6/9/2025 10:49 AM

PLOT BY : LORI ENGEN

PLOT NAME :

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

WISDOT/CADDS SHEET 49

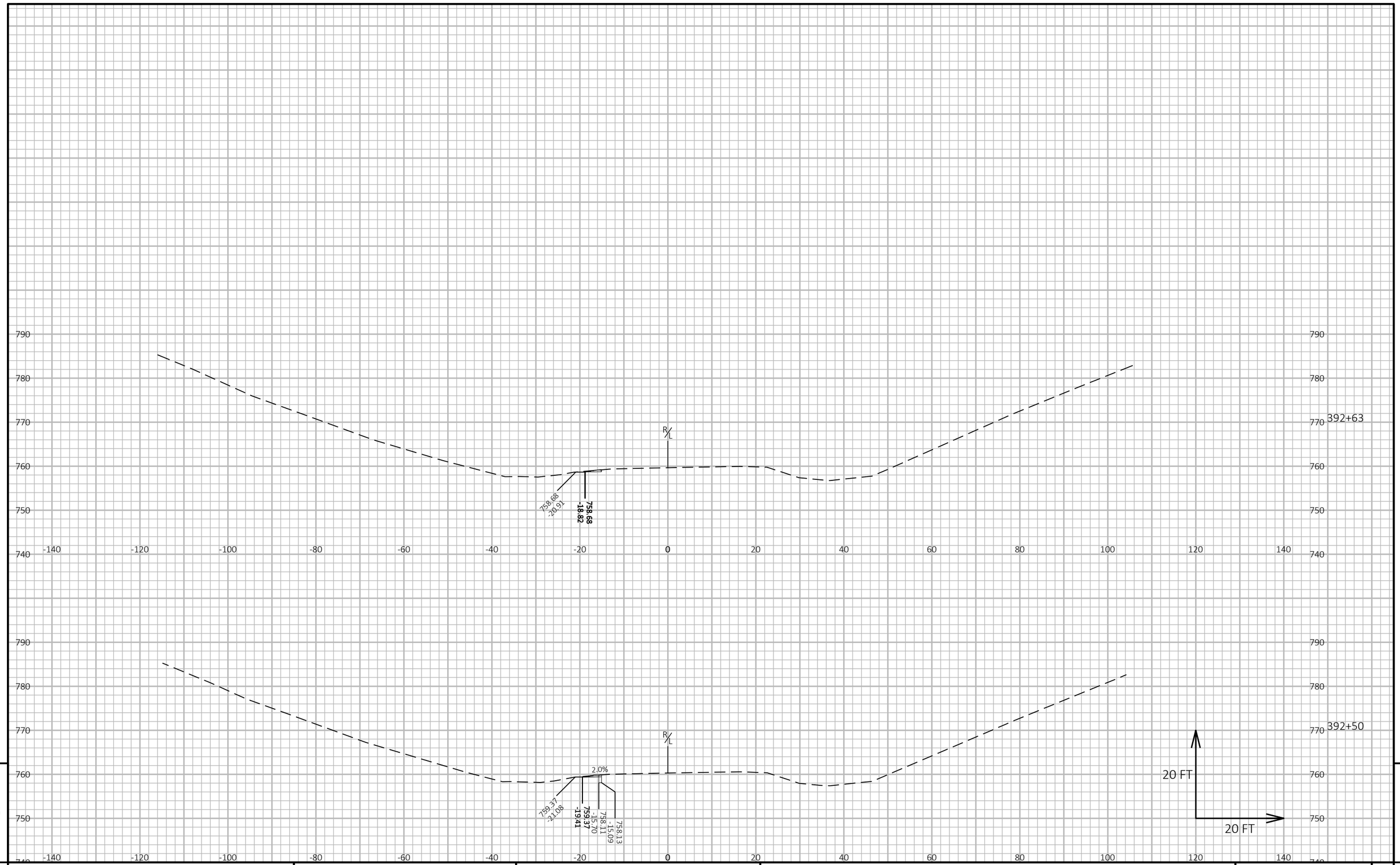


PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: USH 10 WEST STAGE 2 WIDENING	SHEET 263	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS-STAGE 2.DWG
LAYOUT NAME - 10

PLOT DATE : 6/9/2025 10:49 AM PLOT BY : LORI ENGEN PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: USH 10 WEST STAGE 2 WIDENING	SHEET 264	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS-STAGE 2.DWG
LAYOUT NAME - 11

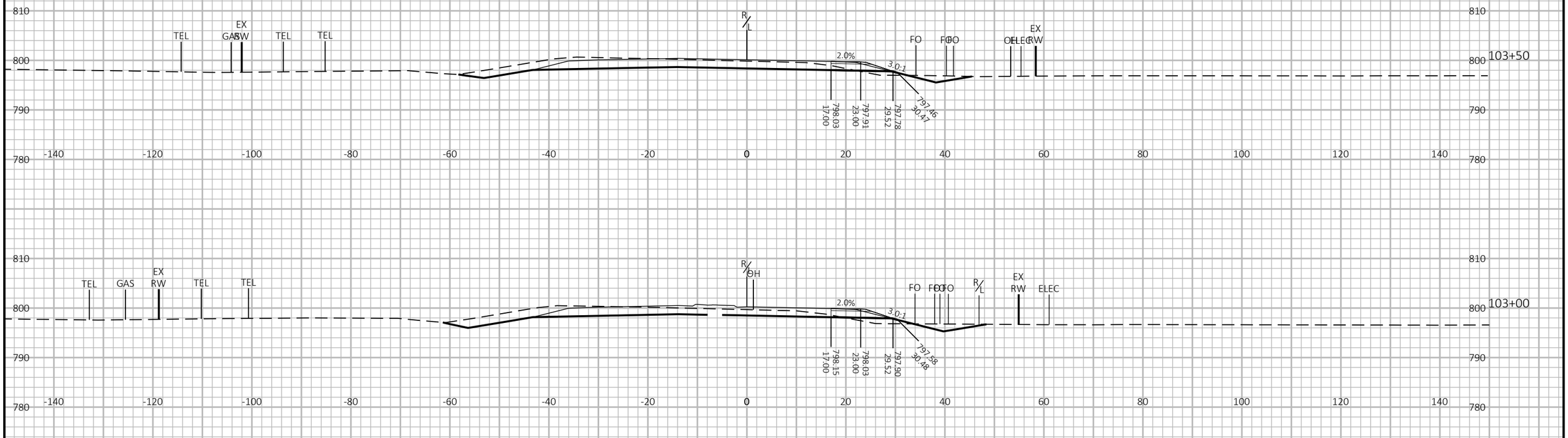
PLOT DATE : 6/9/2025 10:50 AM

PLOT BY : LORI ENGEN

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: STH 25 NB STAGE 2 WIDENING	SHEET 265	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS-STAGE 2.DWG
LAYOUT NAME - 12

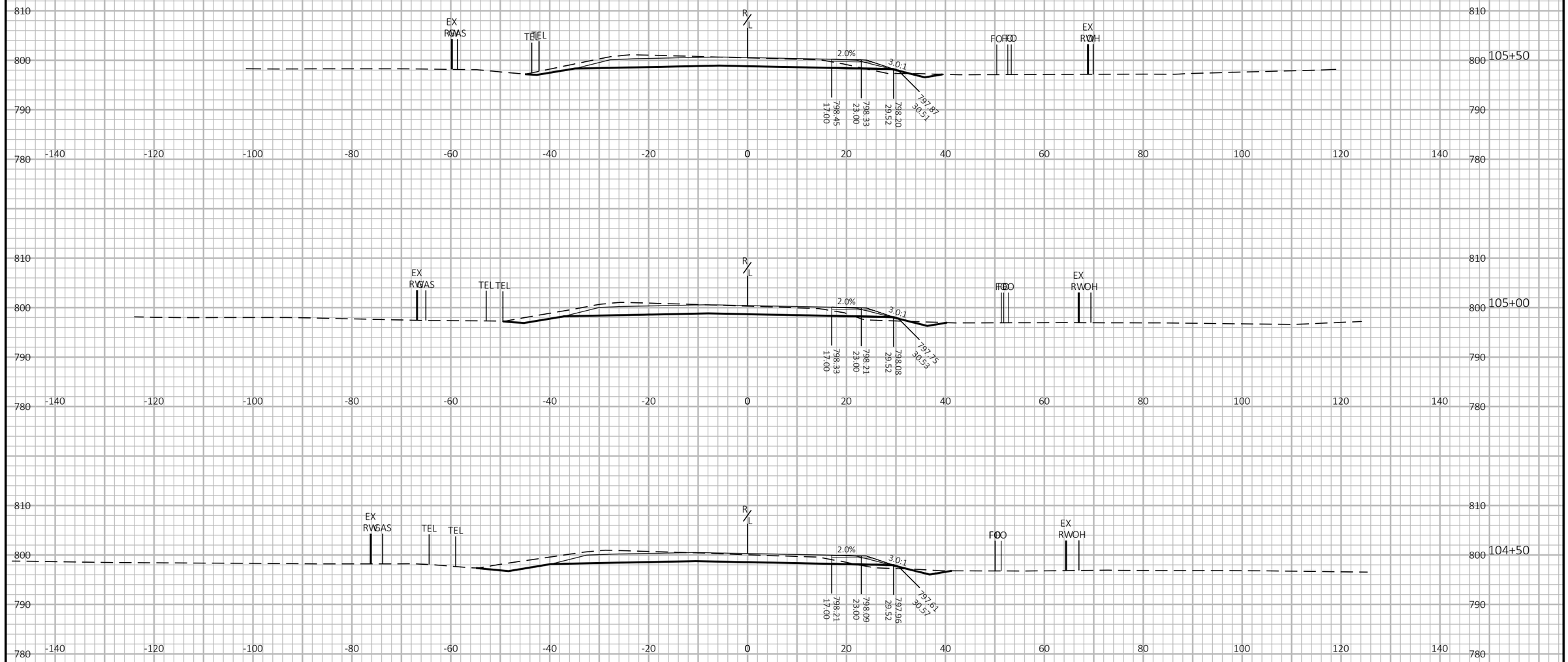
PLOT DATE : 6/9/2025 10:50 AM

PLOT BY : LORI ENGEN

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: STH 25 NB STAGE 2 WIDENING	SHEET 266	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS-STAGE 2.DWG
LAYOUT NAME - 13

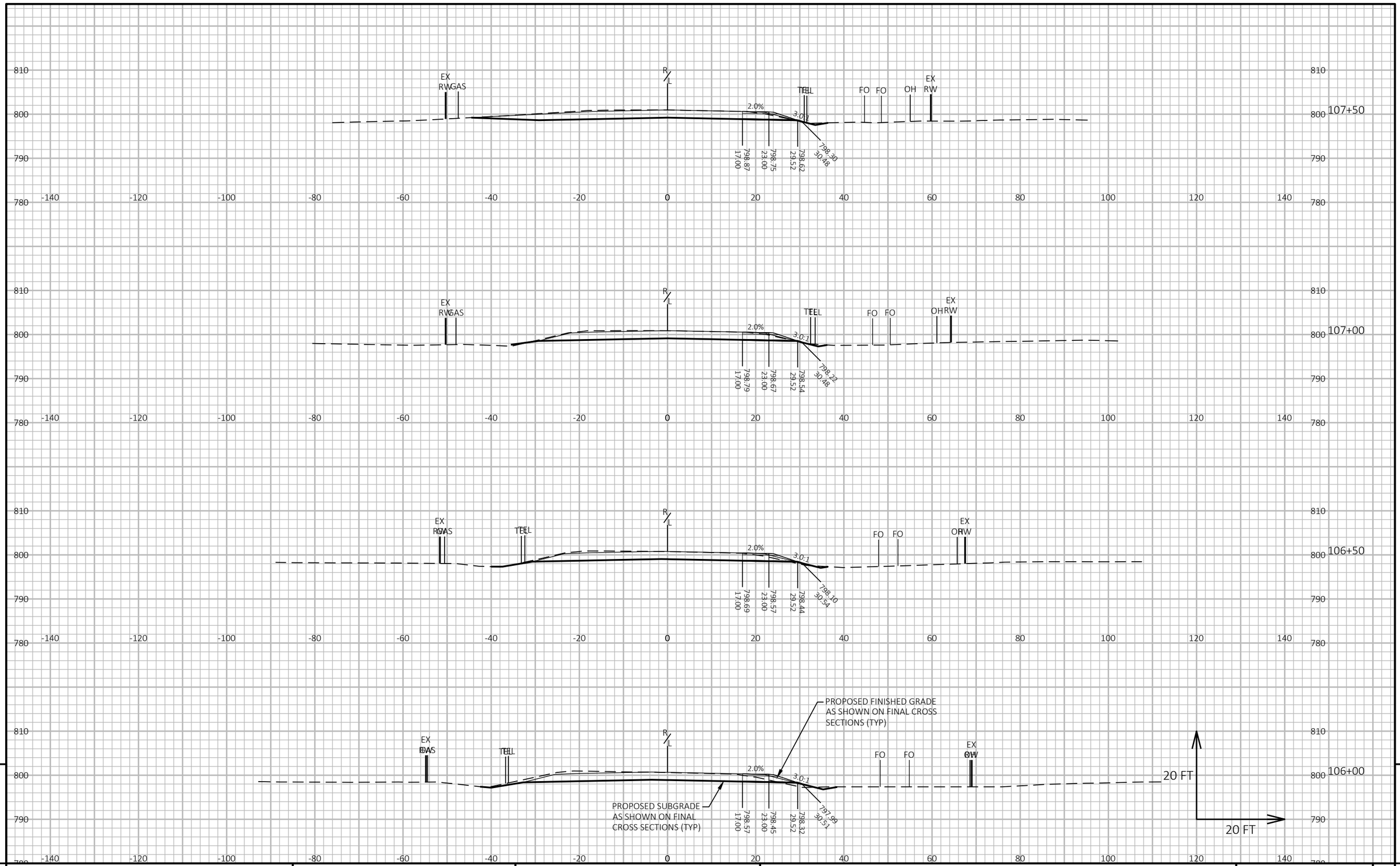
PLOT DATE : 6/9/2025 10:50 AM

PLOT BY : LORI ENGEN

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: STH 25 NB STAGE 2 WIDENING	SHEET 267	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS-STAGE 2.DWG
LAYOUT NAME - 14

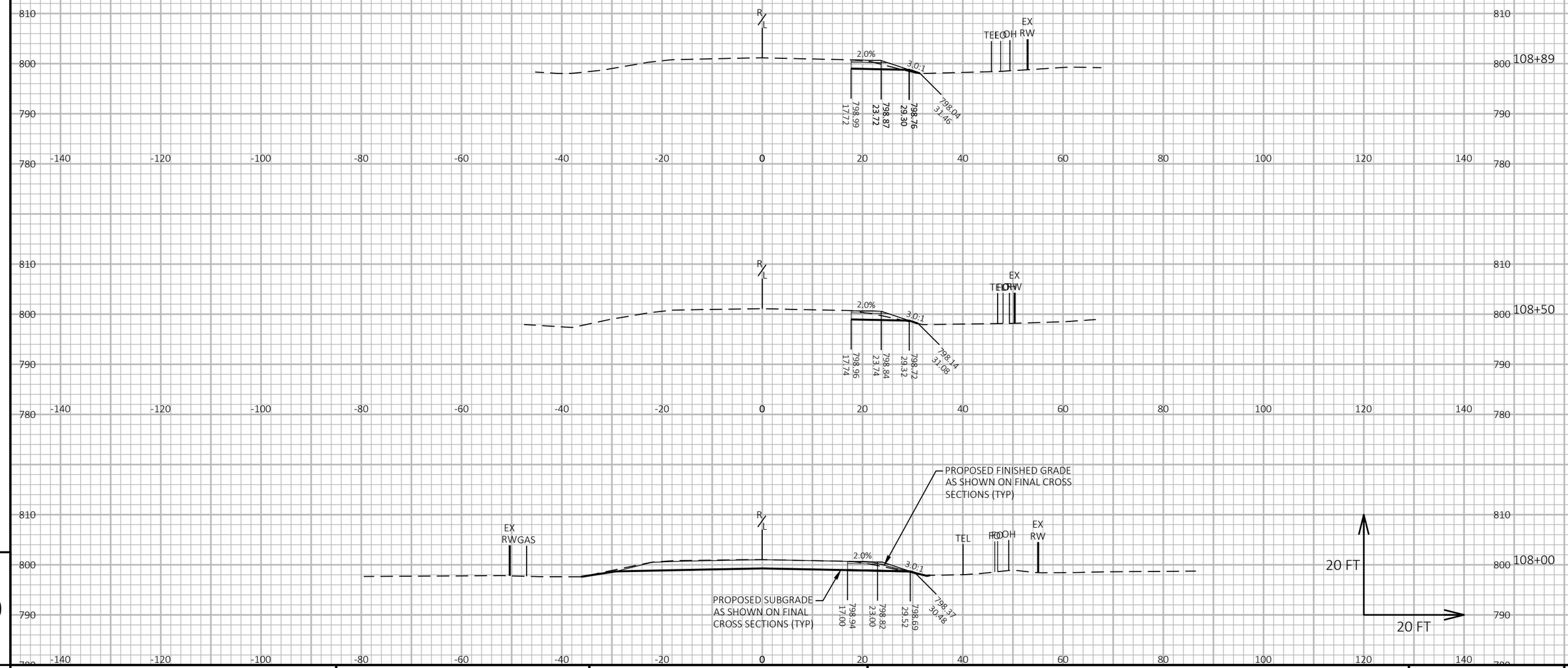
PLOT DATE : 6/9/2025 10:50 AM

PLOT BY : LORI ENGEN

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1530-05-75	HWY: USH 10	COUNTY: PEPIN	CROSS SECTIONS: STH 25 NB STAGE 2 WIDENING	SHEET 268	E

FILE NAME : O:\PDS\C3D\15300505\SHEETS\090201-XS-STAGE 2.DWG
LAYOUT NAME - 15

PLOT DATE : 6/9/2025 10:50 AM

PLOT BY : LORI ENGEN

PLOT NAME :

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

WISDOT/CADDS SHEET 49

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov