WKE

MARCH 2024

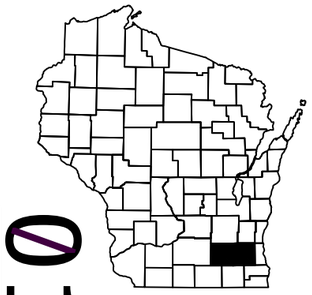
PROJECT ID: 1370-00-74 / 3310-06-70

COUNTY: JEFFERSON/WAUKESHA

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 = 268



01

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1370-00-74	WISC 2024272	1
3310-06-70	WISC 2024283	1

WATERTOWN-WAUKESHA
ROCK RIVER ROAD TO ECL

STH 16

JEFFERSON COUNTY

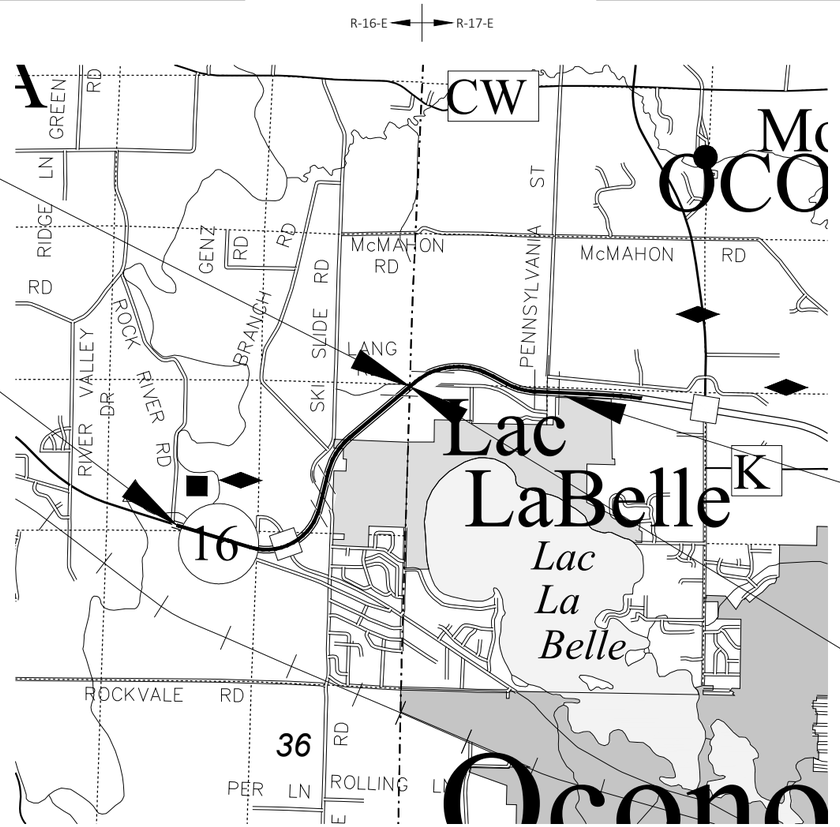
STATE PROJECT NUMBER
1370-00-74

WATERTOWN-WAUKESHA
WCL TO STH 67

STH 16

WAUKESHA COUNTY

STATE PROJECT NUMBER
3310-06-70



END PROJECT
PROJECT ID 1370-00-74
STA 1594+48.50

BEGIN PROJECT
PROJECT ID 1370-00-74
STA 1483+85.13
X = 593462.94
Y = 207202.52

END PROJECT
PROJECT ID 3310-06-70
STA 1678+62.43
X = 609456.83
Y = 211677.48

BEGIN PROJECT
PROJECT ID 3310-06-70
STA 1594+48.50
X = 601405.05
Y = 212101.59

DESIGN DESIGNATION

A.A.D.T.	2020	=	11,900
A.A.D.T.	2046	=	13,210
D.H.V.		=	1,470
D.D.		=	60% / 40%
T.		=	8.8%
DESIGN SPEED		=	65 MPH
ESALS		=	2,100,000

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

LAYOUT
SCALE 0 1.0 MI

TOTAL NET LENGTH OF CENTERLINE = 3.689 MI
LENGTH OF CENTERLINE (1370-00-74) = 2.095 MI
LENGTH OF CENTERLINE (3310-06-70) = 1.594 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), WAUKESHA COUNTY, 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.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	CORRE, INC.
Designer	MATT DILLINGHAM
Project Manager	MARK WILFERT
Regional Examiner	REGIONAL EXAMINER
Regional Supervisor	

APPROVED FOR THE DEPARTMENT

DATE: 11/01/2023 Matthew Dillingham (Signature)

E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\010101-TI.DWG PLOT DATE : 9/27/2023 3:20 PM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME :

2

GENERAL NOTES

- THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.
- VERIFY EXISTING PAVEMENT ELEVATIONS AT ALL TIE-INS TO EXISTING PAVEMENT PRIOR TO CONSTRUCTION. NOTIFY ENGINEER IF A DISCREPANCY IS FOUND BETWEEN PROPOSED PLAN ELEVATIONS AND EXISTING PAVEMENT ELEVATIONS.
- MATCH ASPHALTIC PAVEMENT LONGITUDINAL JOINTS TO EXISTING CONCRETE JOINTS, WHICH ARE LOCATED OUTSIDE OF DRIVING, TURNING, BIKE, AND PARKING LANES.
- RESHAPE, RESTORE AND FINISH ALL PREVIOUSLY GRASSED AREAS DISTURBED BY OPERATIONS OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS AT NO EXPENSE TO THE DEPARTMENT
- DISTURBED AREAS WITHIN THE RIGHT OF WAY ARE TO BE TOPSOILED (SALVAGED), FERTILIZED, SEEDED, AND EROSION MATTED AS DIRECTED BY THE ENGINEER. THESE ITEMS ARE INCIDENTAL TO BARRIER SYSTEM GRADING SHAPING FINISHING ITEM.
- PRIOR TO THE PLACEMENT OF MGS GUARDRAIL, THE SHOULDERS SHALL BE IN PLACE, SHAPED AND COMPACTED UNLESS SHOWN OTHERWISE.
- DO NOT REMOVE ANY TREES OR SHRUBS WITHOUT APPROVAL OF THE ENGINEER.
- ALL SIGN LOCATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO INSTALLATION.
- CONTACT THE PROJECT ENGINEER AND THE SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION (SEWRPC), AT LEAST TWO WEEKS PRIOR TO WORK NEAR ANY PUBLIC SURVEY MONUMENT.

HMA Lift Table

	Thickness	HMA Type
Lower Layer (5 3/4-Inch Only)	4-Inch	3 MT 58-28 S
Upper Layer	1 3/4-Inch	4 MT 58-28 S

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

CONTACTS

WISCONSIN DOT
MARK WILFERT - DESIGN PROJECT MANAGER
141 NW BARSTOW ST
WAUKESHA, WI 53188
PHONE: (262) 548-5936
MARK.WILFERT@DOT.WI.GOV

WISCONSIN DNR
CRAIG WEBSTER
DNR SERVICE CENTER
141 NW BARSTOW ST
WAUKESHA, WI 53188
PHONE: (262) 527-2141
CRAIG.WEBSTER@WISCONSIN.GOV

WISCONSIN DNR
SHELLEY NELSON
DNR SOUTH CENTRAL REGION HEADQUARTERS
3911 FISH HATCHERY RD
FITCHBURG, WI 53711
PHONE: (608) 444-2835
SHELLEY.NELSON@WISCONSIN.GOV

TOWN OF OCONOMOWOC
JEFF HERRMANN
W359 N6812 BROWN ST
OCONOMOWOC, WI 53188
PHONE: (920) 474-4449
JHERRMANN@TOWNOCONOMOWOC.COM

JEFFERSON COUNTY - HIGHWAY DEPT
BRIAN UDOVICH
1425 SOUTH WISCONSIN DRIVE
JEFFERSON, WI 53549
PHONE: (920) 674-7273
BRIANU@JEFFERSONCOUNTYWI.GOV

ROB MERRY (CHIEF SURVEYOR)
SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION
W239 N1812 ROCKWOOD DRIVE
P.O. BOX 1607
WAUKESHA, WI 53187-1607
PHONE (262) 953-4289
CELL (920) 912-1036
FAX (262) 547-1103
RMERRY@SEWRPC.ORG

ANDY TRAEGER (CONSTRUCTION COORDINATOR)
SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION
W239 N1812 ROCKWOOD DRIVE
P.O. BOX 1607
WAUKESHA, WI 53187-1607
PHONE (262) 953-4296
CELL (262) 853-8463
FAX (262) 547-1103
ATRAEGER@SEWRPC.ORG

WAUKESHA COUNTY - DPW ENGINEERING
KEVIN YANNY
515 W MORELAND BLVD
WAUKESHA, WI 53188
PHONE: (262) 548-7740
KYANNY@WAUKESHACOUNTY.GOV

GO RITEWAY BUS COMPANY
MICHELLE TURINSKE
W360 N8515 BROWN ST
OCONOMOWOC, WI 53066
PHONE: (920) 355-4040
OCONINFO@GORITEWAY.COM

UTILITY CONTACTS

AT&T WISCONSIN
NATHAN GILBERT
411 7TH ST
RACINE, WI 53403
262-720-8235
NG952W@ATT.COM

FRONTIER COMMUNICATIONS OF WI LLC
RUSS RYAN
118 DIVISION STREET
PLYMOUTH, WI 53073
920-583-3275
RUSSEL.W.RYAN@FTR.COM

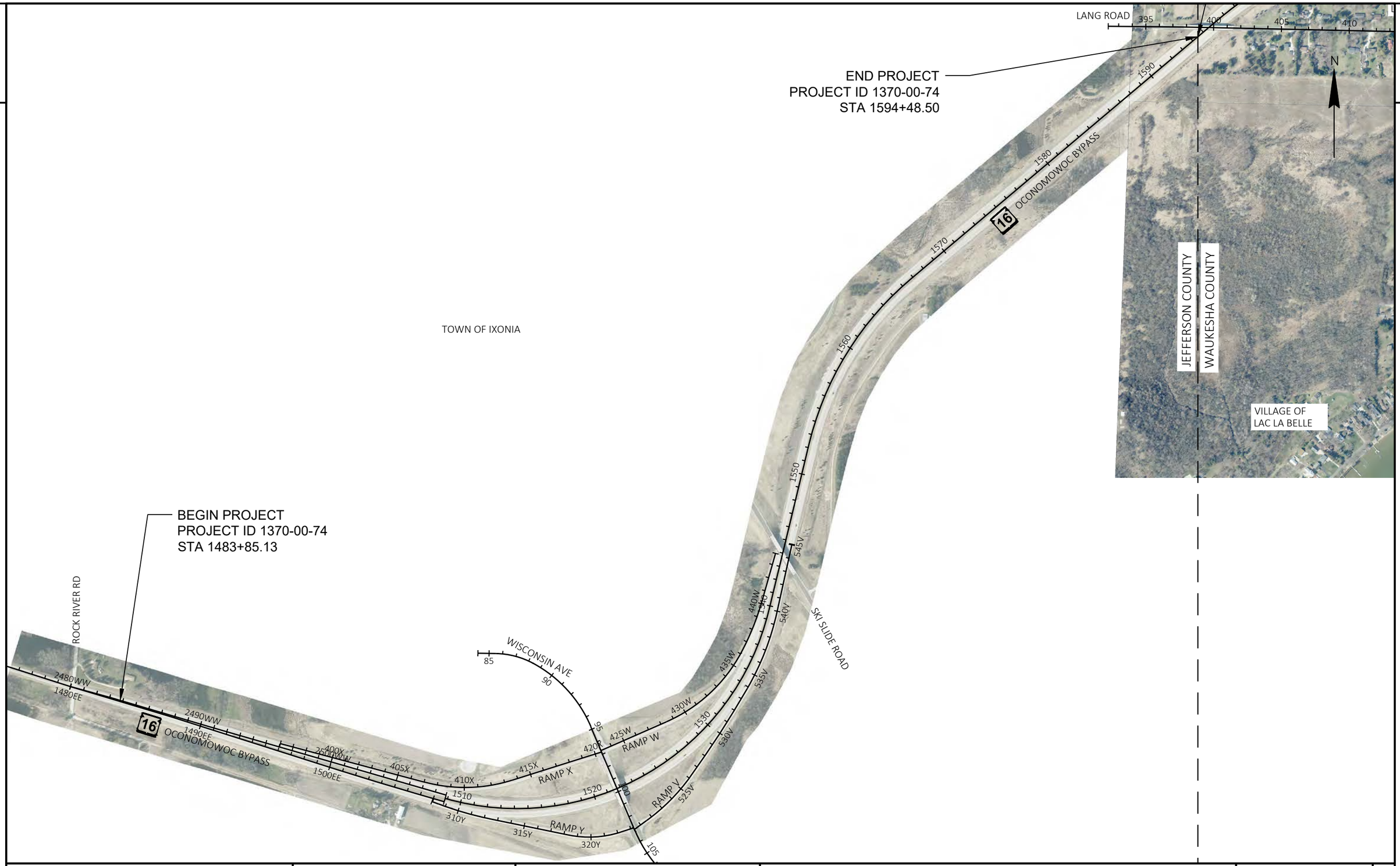
SPECTRUM
DAVE YOPPS
1320 N DR MARTIN LUTHER KING JR DRIVE
MILWAUKEE, WI 53212
414-277-4281
CHTR_WI_CONST@CHARTER.COM

WE ENERGIES ELECTRIC
UTILITY COORDINATOR
500 S 116TH STREET
WEST ALLIS, WI 53214
414-944-5738
WE-UTILITY-RELOCATIONS@WE-ENERGIES.COM

WE ENERGIES GAS
UTILITY COORDINATOR
500 S 116TH STREET
WEST ALLIS, WI 53214
414-944-5738
WE-UTILITY-RELOCATIONS@WE-ENERGIES.COM

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www.DiggersHotline.com

2



PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	PROJECT OVERVIEW	SHEET 4	E

2



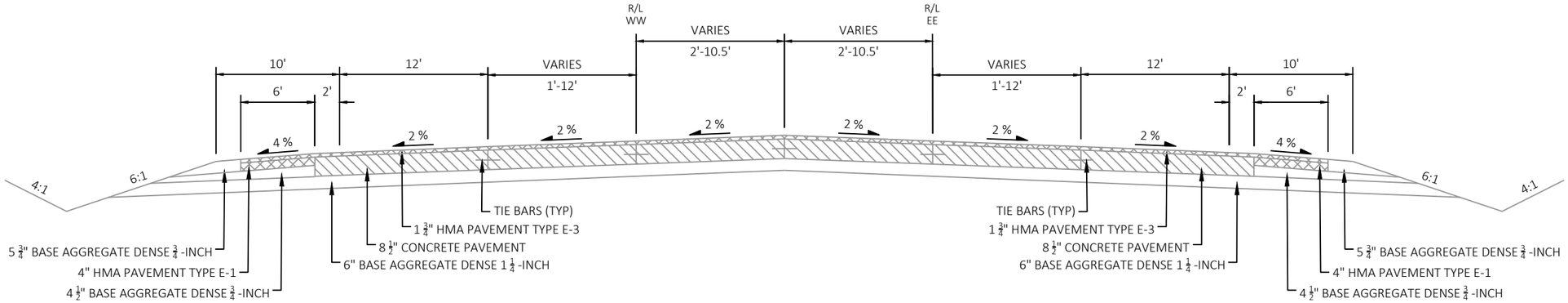
PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	PROJECT OVERVIEW	SHEET 5	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\020201-PO.DWG
LAYOUT NAME - 020202-po

PLOT DATE : 9/27/2023 3:21 PM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN: 650 FT

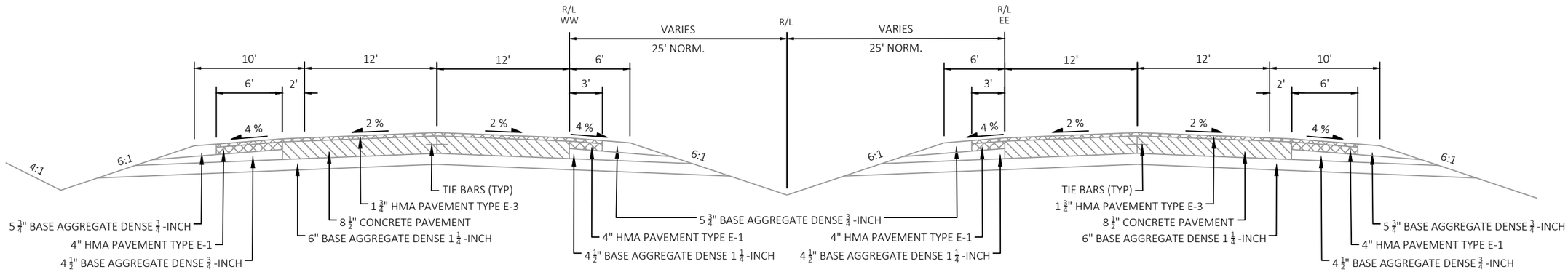
WISDOT/CADDS SHEET 42

2



EXISTING TYPICAL SECTION - STH 16

STA 1483+85 - 1492+54



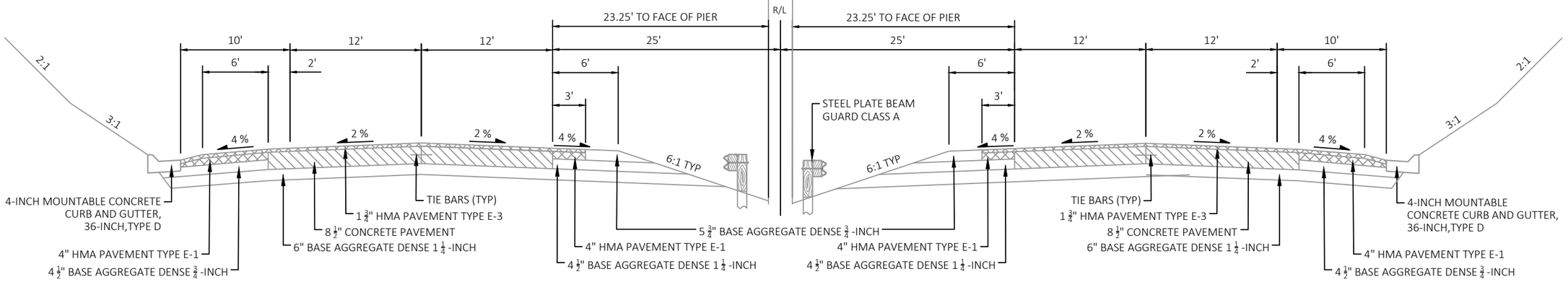
EXISTING TYPICAL SECTION - STH 16

STA 1492+54 - 1678+62

PROJECT NO: 1370-00-74 & 3310-06-70	HWY: STH 16	COUNTY: JEFFERSON & WAUKESHA	EXISTING TYPICALS	SHEET 6	E

2

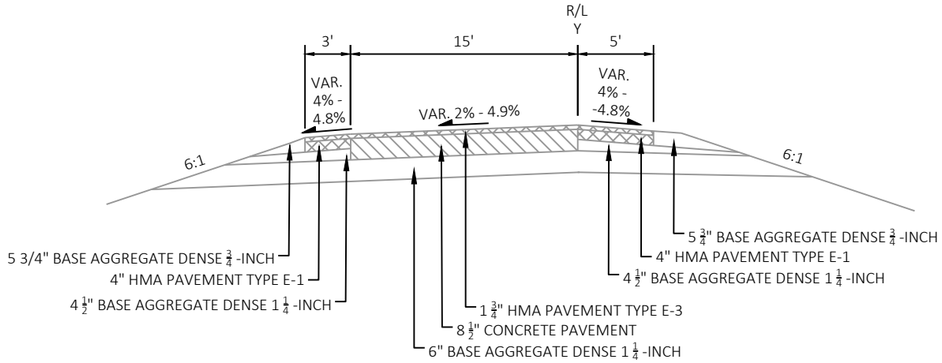
STRUCTURE



EXISTING TYPICAL SECTION - STH 16

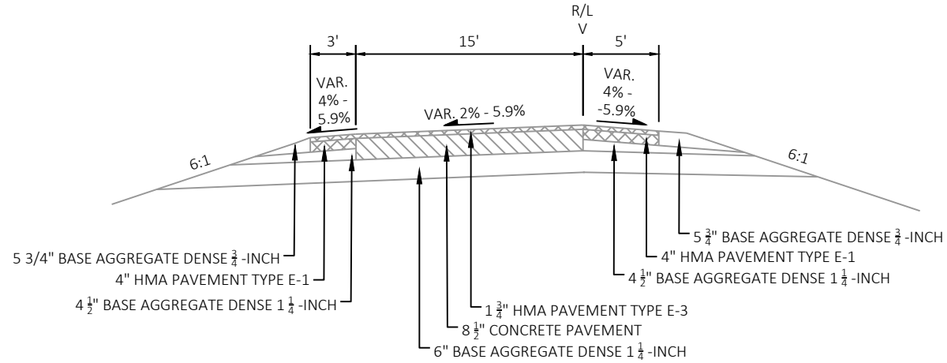
STA 1521+40 - 1522+10 (WISCONSIN AVE)
STA 1543+60 - 1544+20 (SKI SLIDE RD)
STA 1595+25 - 1595+80 (LANG RD)
STA 1645+45 - 1645+80 (PENNSYLVANIA ST)

PROJECT NO: 1370-00-74 & 3310-06-70	HWY: STH 16	COUNTY: JEFFERSON & WAUKESHA	EXISTING TYPICALS	SHEET 7	E



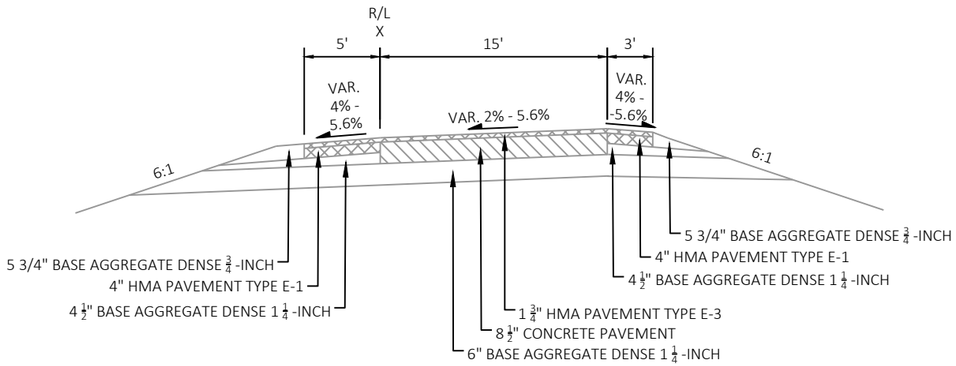
EXISTING TYPICAL SECTION - RAMP Y

STA 307'Y'+95 - 322'Y'+42



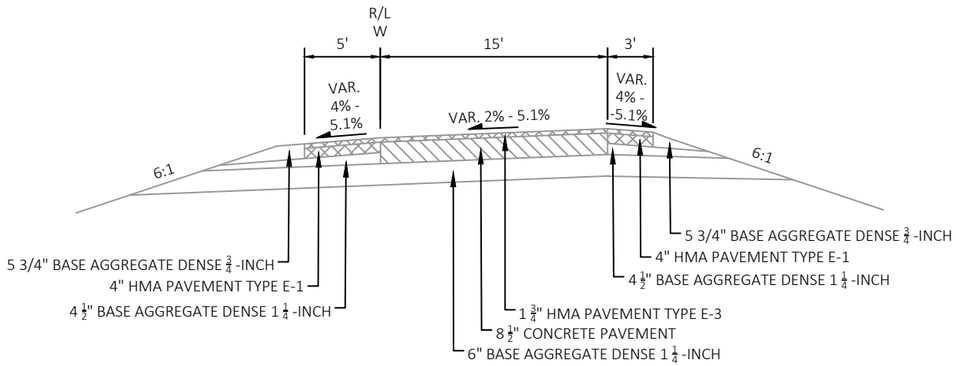
EXISTING TYPICAL SECTION - RAMP V

STA 521'V'+30 - 545'V'+06



EXISTING TYPICAL SECTION - RAMP X

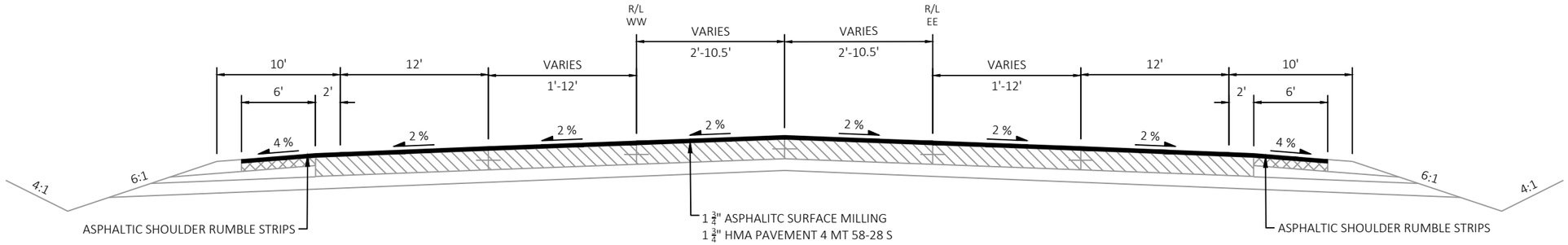
STA 396'X'+04 - 419'X'+63



EXISTING TYPICAL SECTION - RAMP W

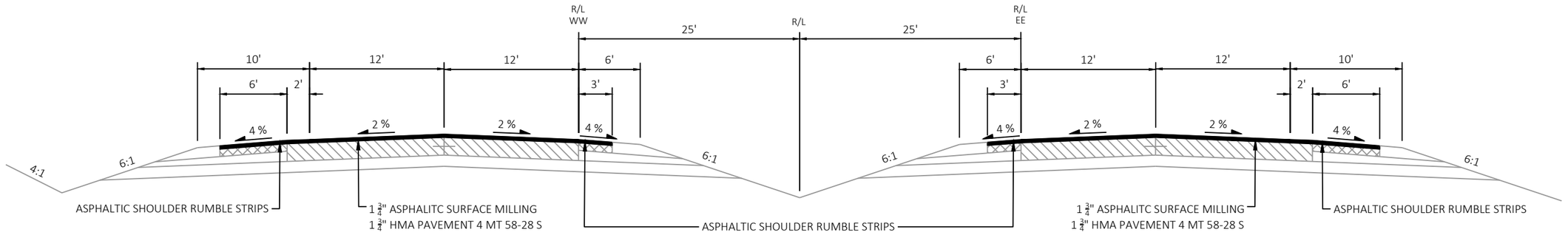
STA 423'W'+96 - 443'W'+86

2



PROPOSED TYPICAL SECTION - STH 16

STA 1483+85 - 1492+54



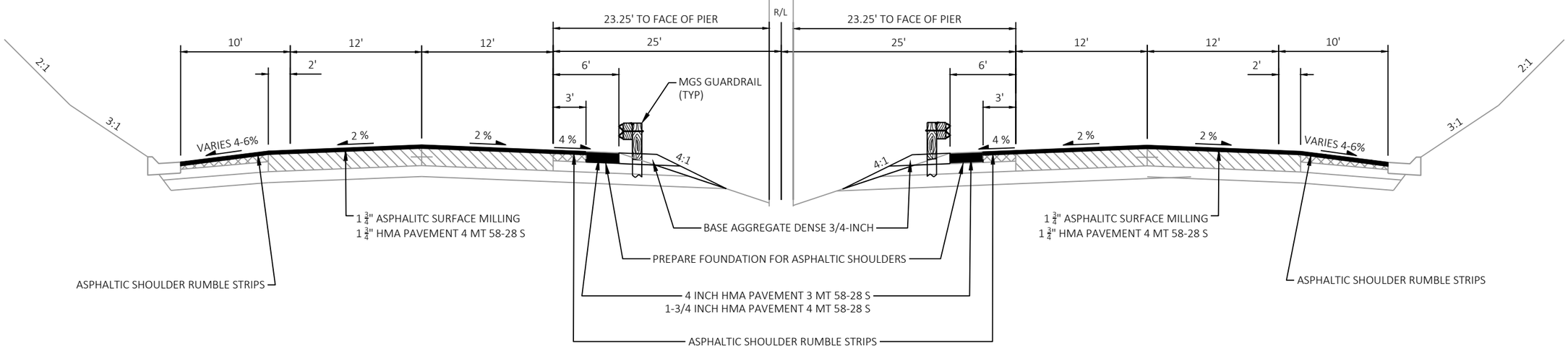
PROPOSED TYPICAL SECTION - STH 16

STA 1492+54 - 1678+62

PROJECT NO: 1370-00-74 & 3310-06-70	HWY: STH 16	COUNTY: JEFFERSON & WAUKESHA	PROPOSED TYPICALS	SHEET 9	E

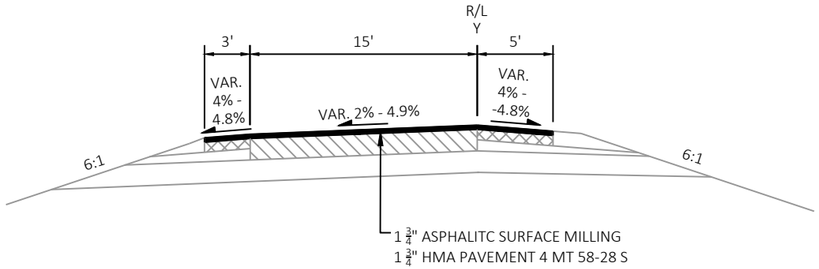
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STRUCTURE



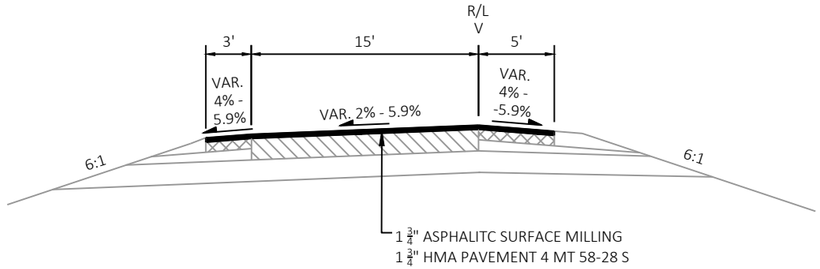
PROPOSED TYPICAL SECTION - STH 16

STA 1521+40 - 1522+10 (WISCONSIN AVE)
STA 1543+60 - 1544+20 (SKI SLIDE RD)
STA 1595+25 - 1595+80 (LANG RD)
STA 1645+45 - 1645+80 (PENNSYLVANIA ST)



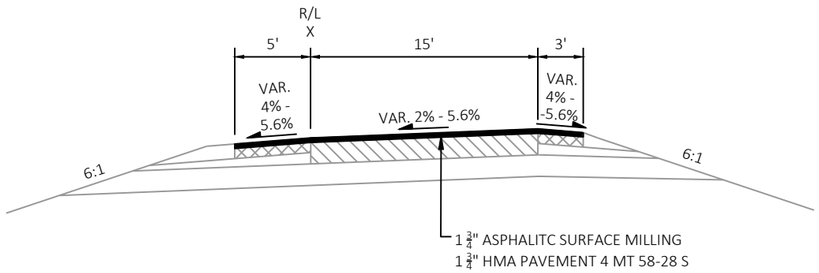
PROPOSED TYPICAL SECTION - RAMP Y

STA 307'Y'+95 - 322'Y'+42



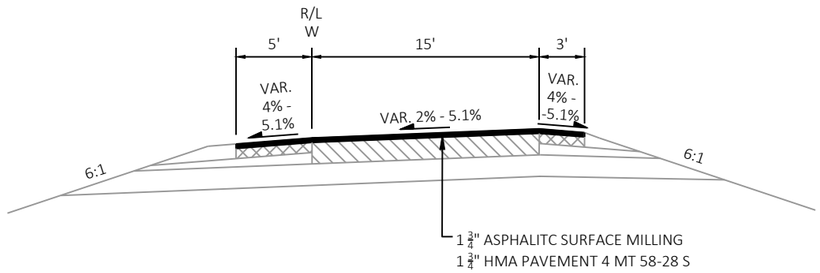
PROPOSED TYPICAL SECTION - RAMP V

STA 521'V'+30 - 545'V'+06



PROPOSED TYPICAL SECTION - RAMP X

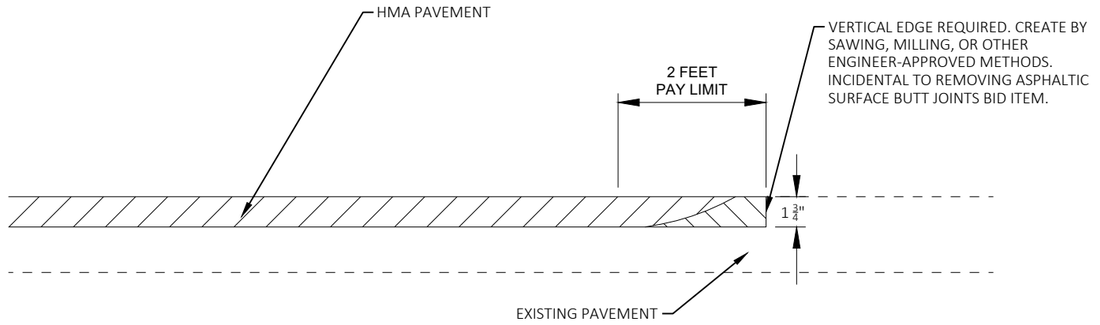
STA 396'X'+04 - 419'X'+63



PROPOSED TYPICAL SECTION - RAMP W

STA 423'W'+96 - 443'W'+86

2

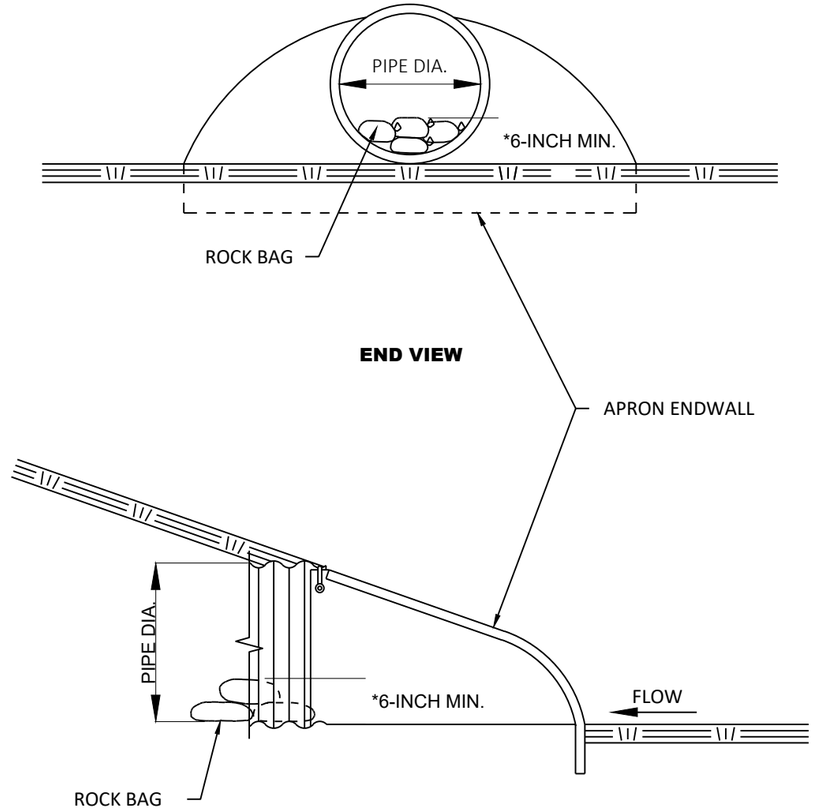


REMOVE MATERIAL UNDER ITEM 'REMOVING ASPHALTIC SURFACE BUTT JOINT'

REMOVING ASPHALTIC SURFACE MILLING

BUTT JOINT - NO CHANGE IN PROFILE

2



END VIEW

SIDE VIEW

CULVERT PIPE CHECKS

*OR AS DIRECTED BY THE ENGINEER

ESTIMATED BAG SIZE 18" X 12" X 6"	
PIPE SIZE	**ESTIMATED NUMBER OF BAGS**
12"	1
15"	2
18"	2
24"	3
30"	5
36"	7
42"	7
48"	10
54"	10
60"	13
66"	14
72"	16
17"X13"	2
30"X19"	5
38"X24"	7
45"X29"	10
53"X34"	10
60"X38"	13
76"X48"	18
27' WIDE BOX CULVERT	36

2

GENERAL NOTES

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

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

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

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

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

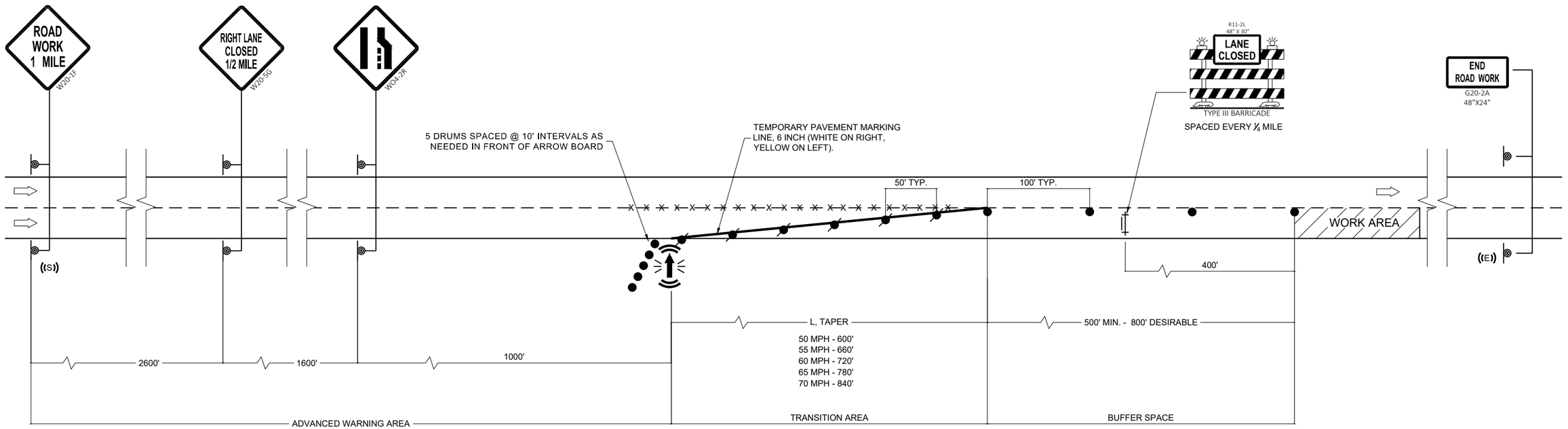
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

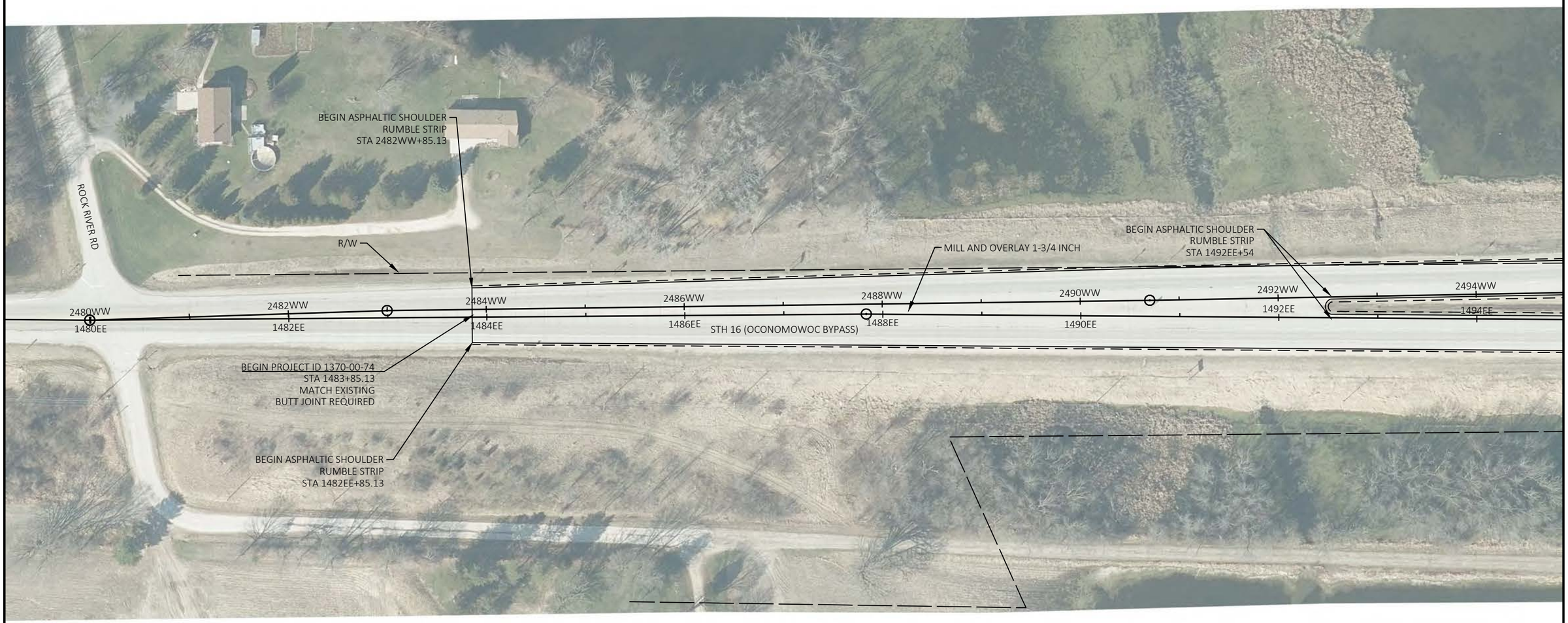
LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC
- WORK AREA
- FLASHING CONNECTED ARROW BOARD
- (S) WZ START LOCATION MARKER
- (E) WZ END LOCATION MARKER



CONNECTED WORK ZONE NOTIFICATION SYSTEM, ITEM SPV.0045.01

2



PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	PLAN DETAILS	SHEET 15	E

2

2

N

BEGIN ASPHALTIC SHOULDER
RUMBLE STRIPS
STA 2508WW+35

R/W

END ASPHALTIC SHOULDER
RUMBLE STRIPS
STA 2502WW+59
STA 402X+59

MILL AND OVERLAY 1-3/4 INCH

~~398X~~ ~~400X~~ ~~402X~~ ~~404X~~ ~~406X~~ ~~408X~~

2496WW 2498WW 2500WW 2502WW 2504WW 2506WW 2508WW

~~1496EE~~ ~~1498EE~~ ~~1500EE~~ ~~1502EE~~ ~~1504EE~~ ~~1506EE~~ ~~1508EE~~

STH 16 (OCONOMOWOC BYPASS)

308Y

CONTINUE ASPHALTIC
SHOULDER RUMBLE STRIP

R/W

END ASPHALTIC SHOULDER
RUMBLE STRIPS
STA 1506EE+36

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	PLAN DETAILS	SHEET 16	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021202-pd

PLOT DATE : 9/27/2023 3:34 PM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

END CONSTRUCTION
STA 419X+63
MATCH EXISTING
BUTT JOINT REQUIRED

R/W

MILL AND OVERLAY 1-3/4 INCH

BEGIN CONSGRUCTION
STA 423W+96
MATCH EXISTING
BUTT JOINT REQUIRED

RAMP W (WB EXIT RAMP)

N

1524+34.43, -22.60' LT

1523+81.13, -17.45' LT

1523+27.54, -19.53' LT

REMOVE EXISTING GUARDRAIL

WISCONSIN AVE

1521+38.10, -19.44' LT

1521+03.43, -22.51' LT

RAMP X (WB ENTRANCE RAMP)

CONTINUE ASPHALTIC
SHOULDER RUMBLE STRIP

MILL AND OVERLAY 1-3/4 INCH

1522+46.27, 21.63' RT

1519+31.96, 18.43' RT

1522+16.62, 18.74' RT

STH 16 (OCONOMOWOC BYPASS)

1518+29.88, 21.33' RT

1518+79.41, 16.43' RT

PLACE MGS GUARDRAIL

WISCONSIN AVE

END CONSTRUCTION
STA 322Y+42
MATCH EXISTING
BUTT JOINT REQUIRED

BEGIN ASPHALTIC SHOULDER
RUMBLE STRIPS
STA 1512+65

RAMP Y (EB EXIT RAMP)

MILL AND OVERLAY 1-3/4 INCH

BEGIN CONSTRUCTION
STA 521V+30
MATCH EXISTING
BUTT JOINT REQUIRED

R/W

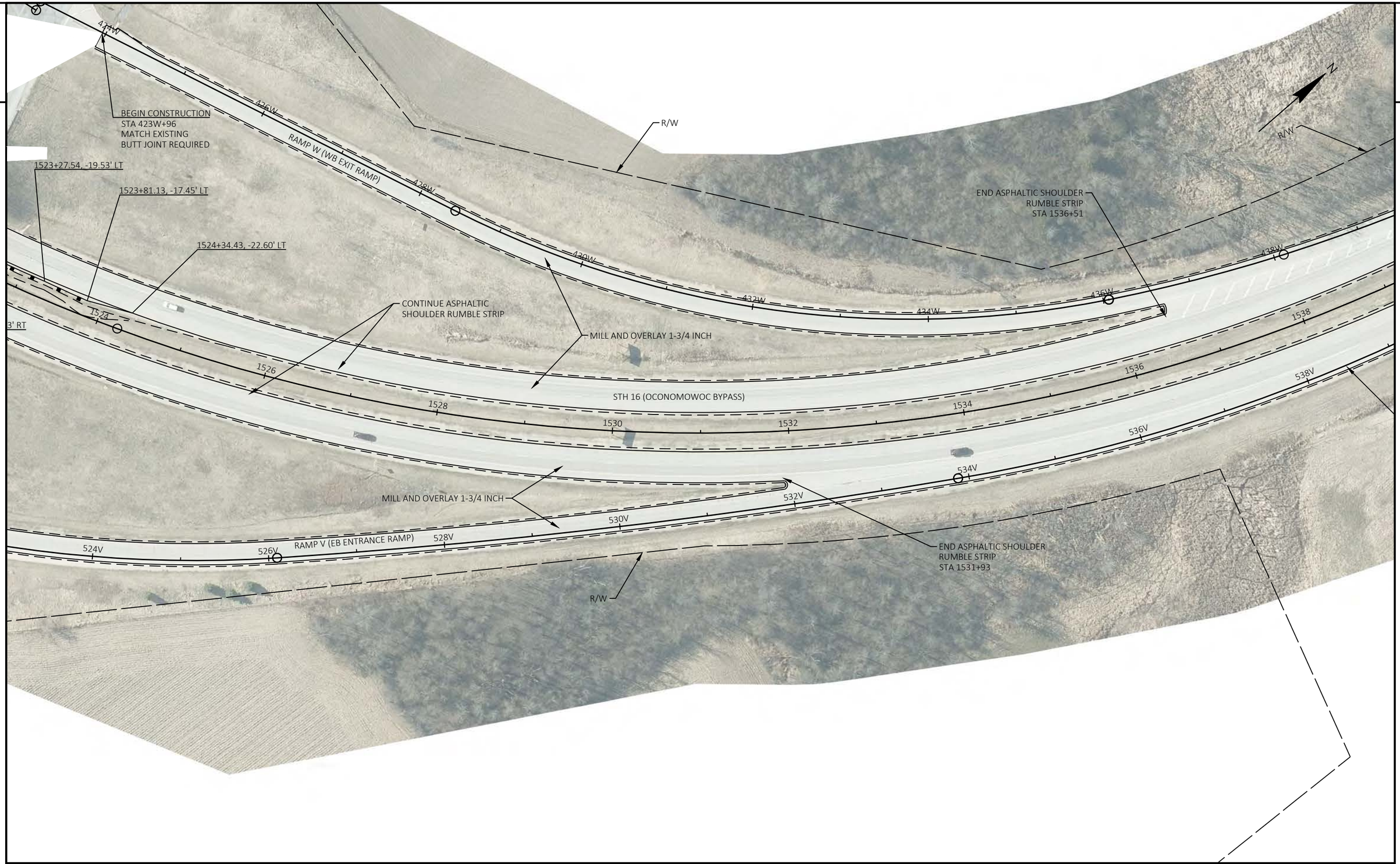
PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	PLAN DETAILS	SHEET 17	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021203-pd

PLOT DATE : 9/27/2023 3:34 PM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	PLAN DETAILS	SHEET 18	E

2

2

N

R/W

INSTALL MGS GUARDRAIL

SKI SLIDE ROAD

BEGIN ASPHALTIC SHOULDER
RUMBLE STRIPS
STA 1545+12

MILL AND OVERLAY 1-3/4 INCH

CONTINUE ASPHALTIC
SHOULDER RUMBLE STRIP

1543+26.75, -21.70' LT

1543+56.74, -18.73' LT

1545+94.24, -18.57' LT

1546+47.33, -16.57' LT

1546+97.33, -21.57' LT

438W

440W

442W

1538

1540

1542

1544

1546

1548

1550

1552

STH 16 (OCONOMOWOC BYPASS)

538V

540V

542V

544V

1540+30.42, 21.76' RT

1540+80.42, 16.76' RT

1541+33.51, 18.72' RT

1544+21.01, 18.65' RT

1544+51.01, 21.65' RT

REMOVE EXISTING GUARDRAIL

CONTINUE ASPHALTIC
SHOULDER RUMBLE STRIP

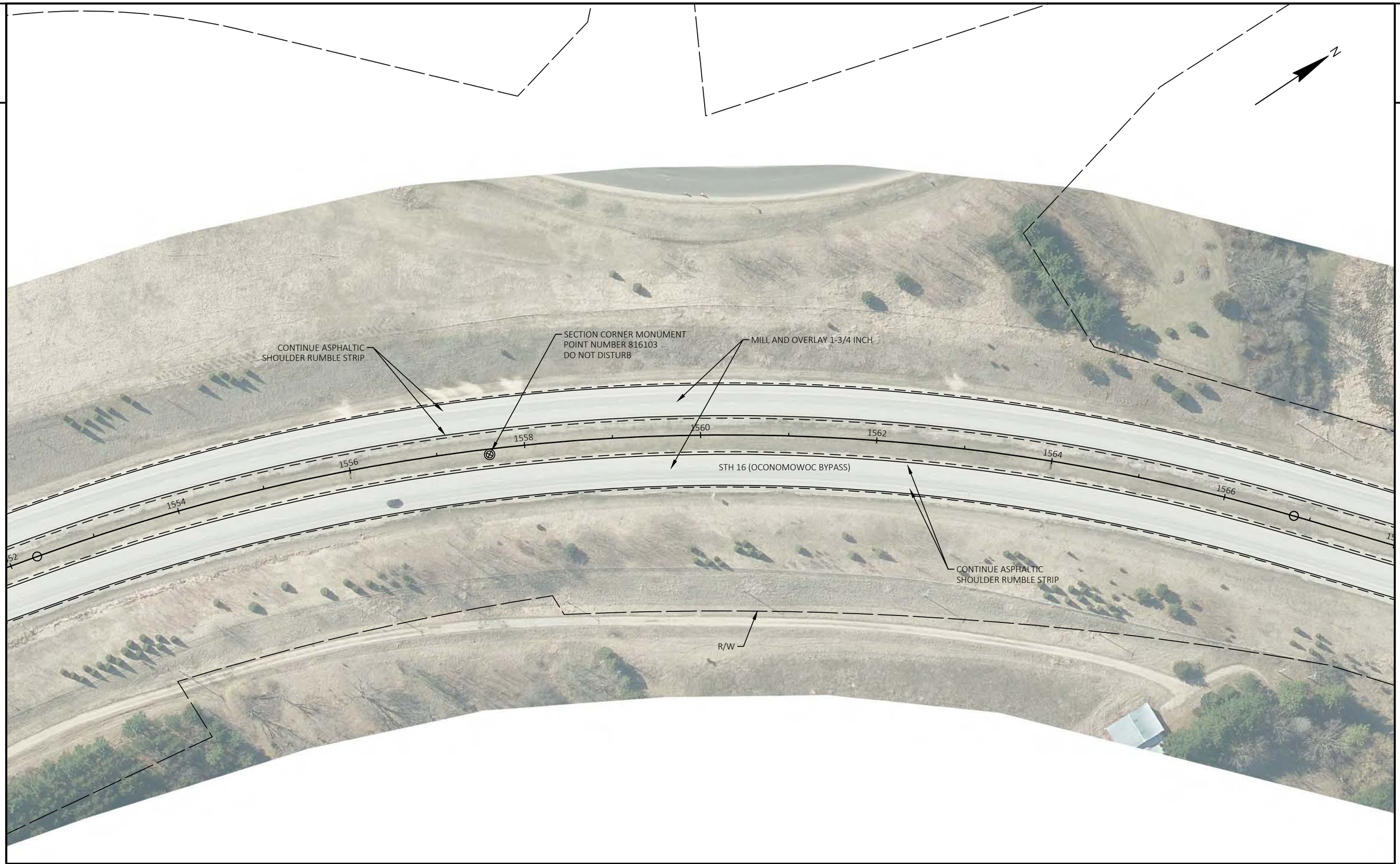
BEGIN ASPHALTIC SHOULDER
RUMBLE STRIP
STA 1538+48

EXISTING 24x28-INCH DUAL CULVERT

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	PLAN DETAILS	SHEET 19	E

2

2



PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	PLAN DETAILS	SHEET 20	E

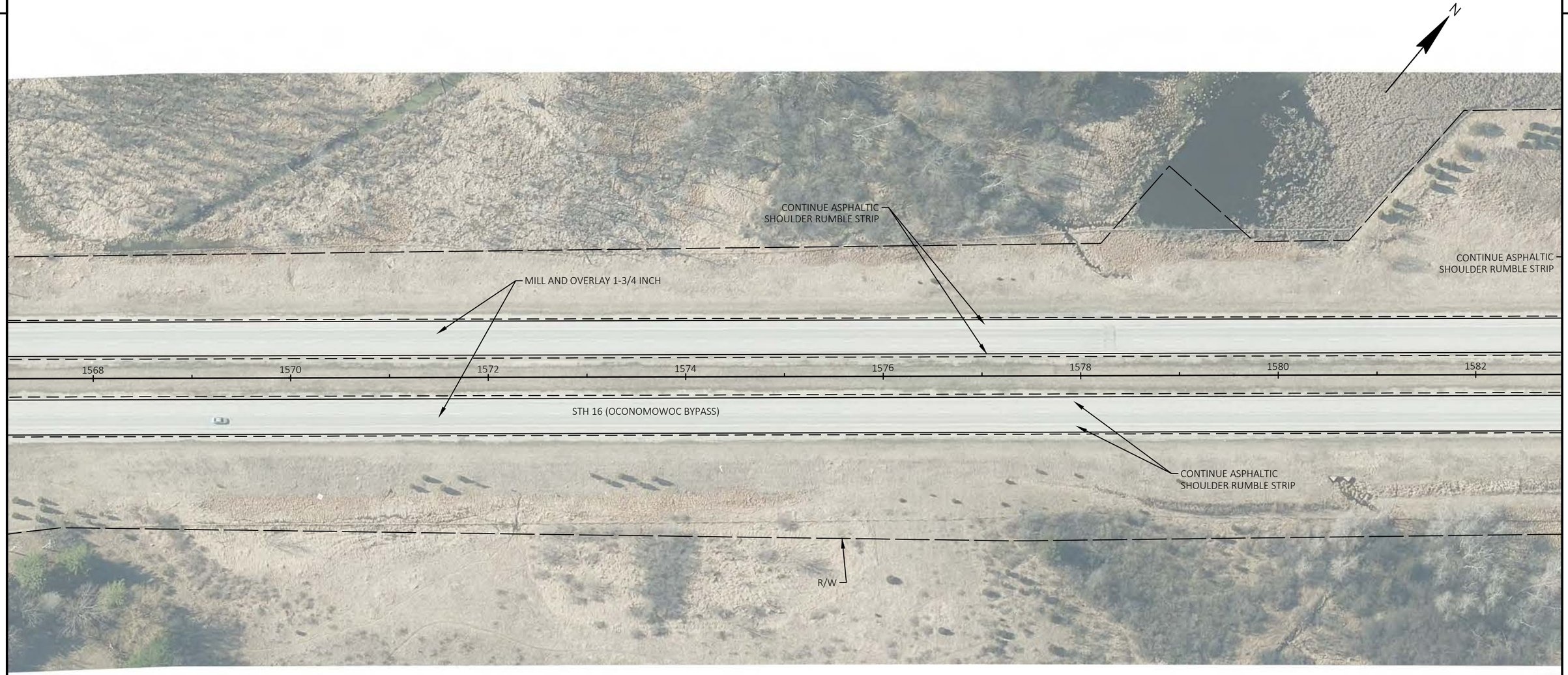
FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021206-pd

PLOT DATE : 9/27/2023 3:34 PM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2



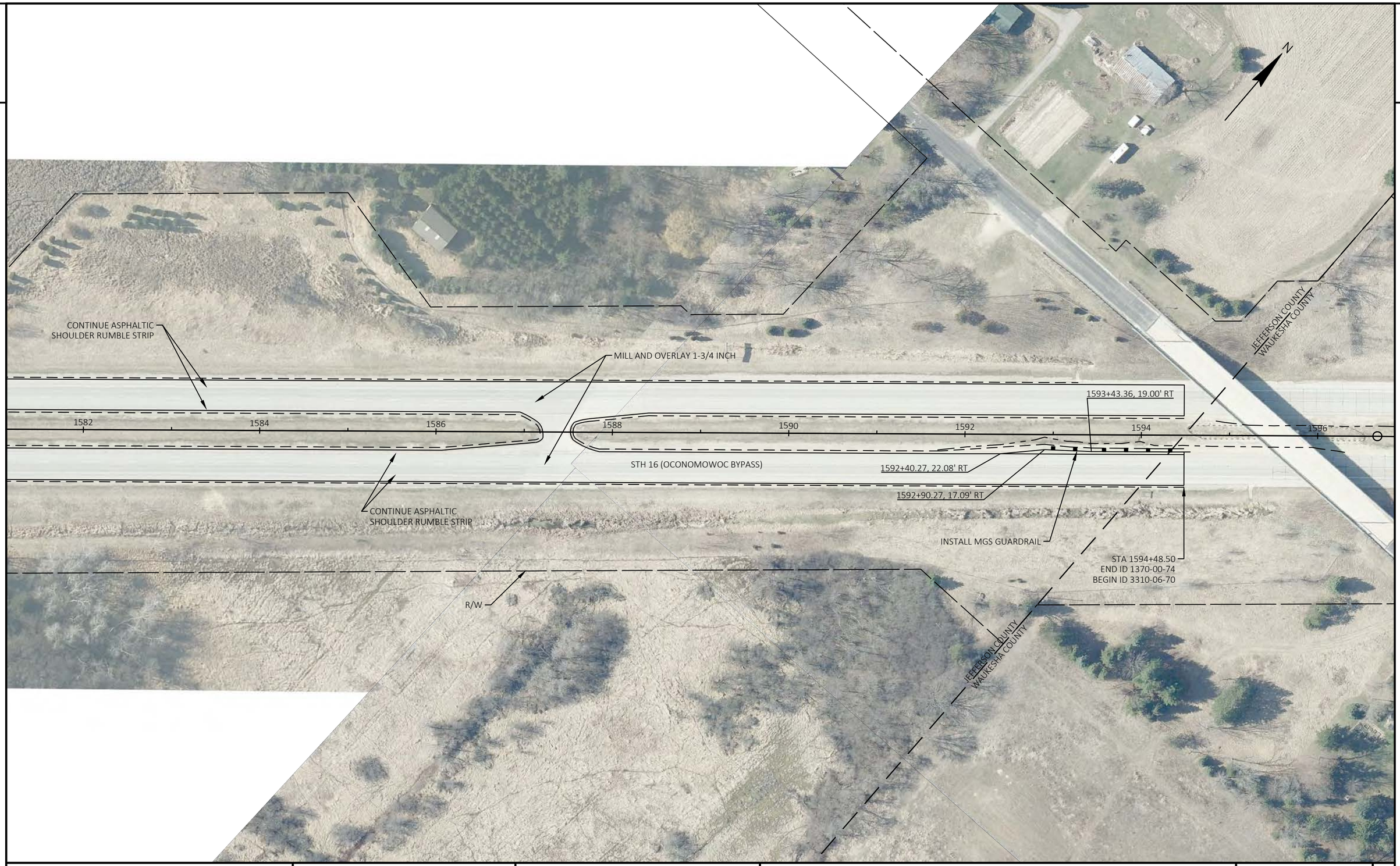
PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	PLAN DETAILS	SHEET 21	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021207-pd

PLOT DATE : 9/27/2023 3:34 PM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



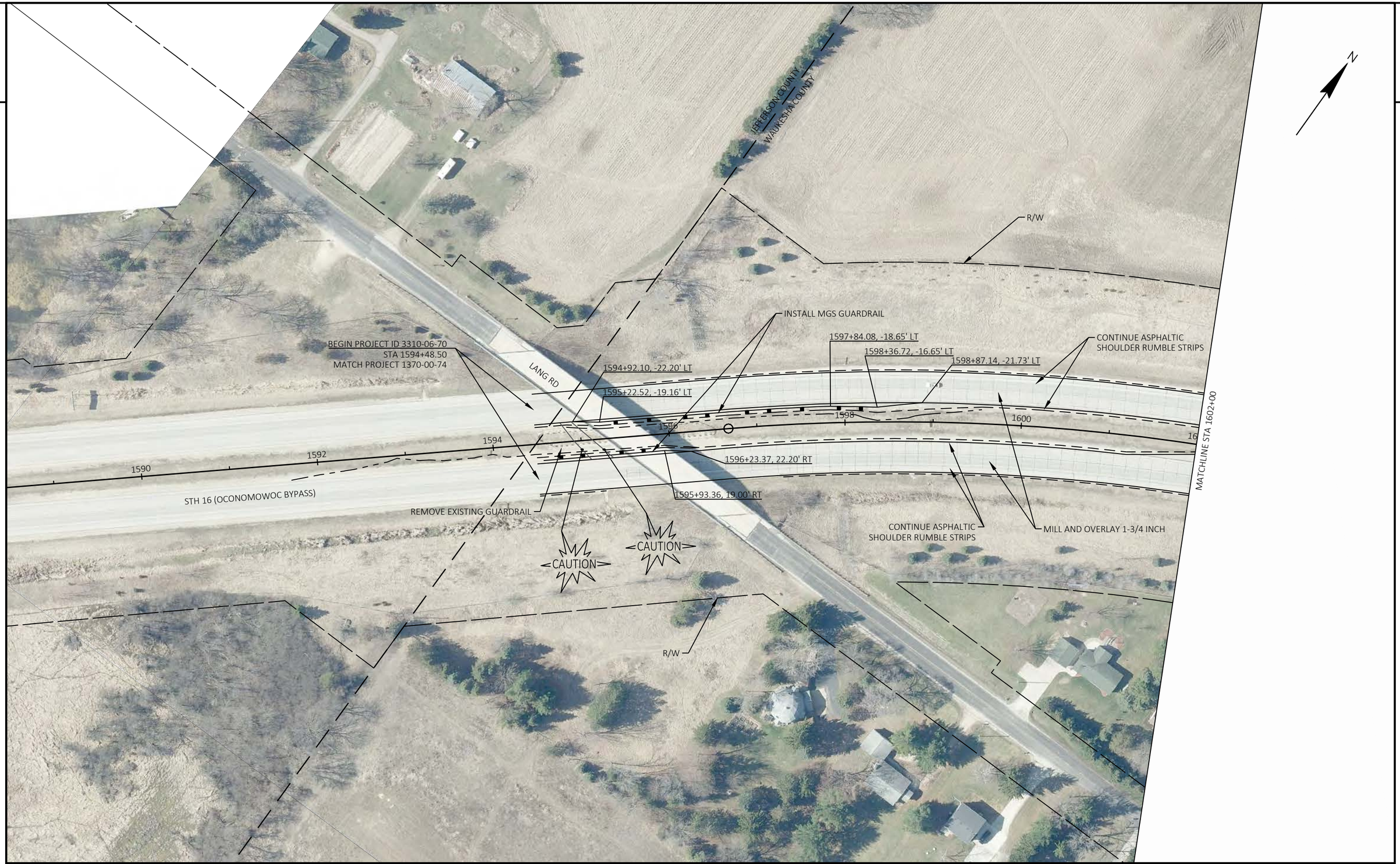
2

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	PLAN DETAILS	SHEET 22	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021208-pd

PLOT DATE : 9/27/2023 3:34 PM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 23	E

2

2

N

R/W

CONTINUE ASPHALTIC
SHOULDER RUMBLE STRIPS

MILL AND OVERLAY 1-3/4 INCH

1604

1606

1608

1610

1612

1614

STH 16 (OCONOMOWOC BYPASS)

CONTINUE ASPHALTIC
SHOULDER RUMBLE STRIPS

MATCHLINE STA 1602+00

MATCHLINE STA 1616+00

R/W

PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 24	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\021211-PD.DWG
LAYOUT NAME - 021212-pd

PLOT DATE : 9/27/2023 3:35 PM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 25	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\021211-PD.DWG
LAYOUT NAME - 021213-pd

PLOT DATE : 9/27/2023 3:35 PM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



2

PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 26	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\021211-PD.DWG
LAYOUT NAME - 021214-pd
PLOT DATE : 9/27/2023 3:35 PM
PLOT BY : DILLINGHAM, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

N

REMOVE 10 FT FENCE
PLACE 10-FT GATE
3RD PANEL FROM
ANGLE POINT

R/W

LANG RD

CONTINUE ASPHALTIC
SHOULDER RUMBLE STRIPS

REMOVE EXISTING GUARDRAIL

EXISTING 18-INCH SSPRC

INSTALL MGS GUARDRAIL

MILL AND OVERLAY 1-3/4 INCH

1645+31.16, -19.12' LT

1645+01.16, -22.08' LT

1647+68.66, -19.05' LT

1648+21.75, -17.05' LT

1648+72.78, -22.15' LT

MATCHLINE STA 1644+00

44 1646 1648 1650 1652 1654 1656 16

MATCHLINE STA 1658+00

1645+90.33, 18.89' RT

1646+20.33, 21.93' RT

STH 16 (OCONOMOWOC BYPASS)

CAUTION

CAUTION

CONTINUE ASPHALTIC
SHOULDER RUMBLE STRIPS

PENNSYLVANIA ST

REMOVE 10 LF FENCE
PLACE 10-FT GATE
3RD PANEL NE FROM
ANGLE POINT

R/W

PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 27	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\021211-PD.DWG
LAYOUT NAME - 021215-pd

PLOT DATE : 9/27/2023 3:35 PM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

R/W

LANG ROAD

CONTINUE ASPHALTIC
SHOULDER RUMBLE STRIPS

MILL AND OVERLAY 1-3/4 INCH

MATCHLINE STA 1658+00

1660

1662

1664

1666

1668

1670

MATCHLINE STA 1672+00

STH 16 (OCONOMOWOC BYPASS)

CONTINUE ASPHALTIC
SHOULDER RUMBLE STRIPS

R/W

PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 28	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\021211-PD.DWG
LAYOUT NAME - 021216-pd

PLOT DATE : 9/27/2023 3:35 PM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

R/W

MILL AND OVERLAY 1-3/4 INCH

CONTINUE ASPHALTIC
SHOULDER RUMBLE STRIPS

MATCHLINE STA 1672+00

1672

1674

1676

1678

1680

1682

1684

1686

STH 16 (OCONOMOWOC BYPASS)

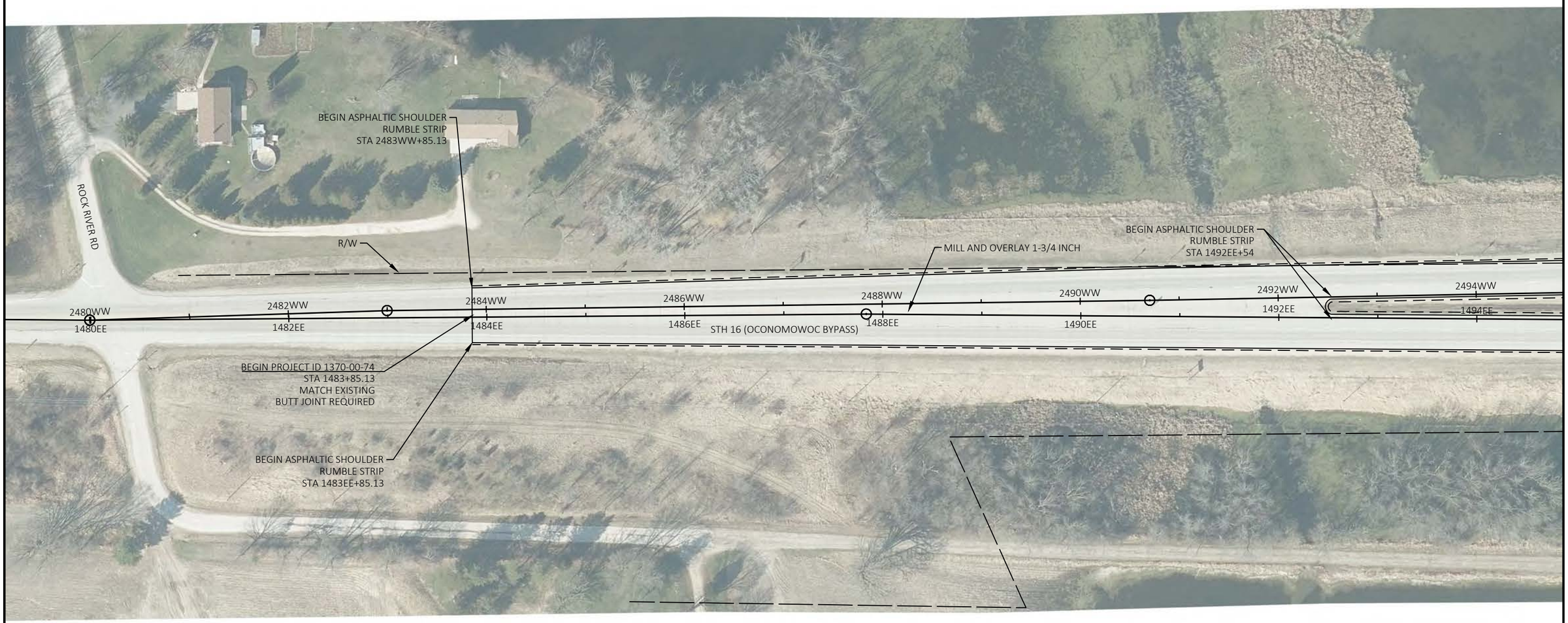
CONTINUE ASPHALTIC
SHOULDER RUMBLE STRIPS

END PROJECT ID 3310-06-70
STA 1678+62.43
MATCH EXISTIING

R/W

PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 29	E

2



PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	PLAN DETAILS	SHEET 30	E

2



PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	PLAN DETAILS	SHEET 31	E

2

2

END CONSTRUCTION
STA 419X+63
MATCH EXISTING
BUTT JOINT REQUIRED

R/W

MILL AND OVERLAY 1-3/4 INCH

BEGIN CONSGRUCTION
STA 423W+96
MATCH EXISTING
BUTT JOINT REQUIRED

RAMP W (WB EXIT RAMP)

N

1524+34.43, -22.60' LT

1523+81.13, -17.45' LT

1523+27.54, -19.53' LT

REMOVE EXISTING GUARDRAIL

WISCONSIN AVE

1521+38.10, -19.44' LT

1521+03.43, -22.51' LT

RAMP X (WB ENTRANCE RAMP)

CONTINUE ASPHALTIC
SHOULDER RUMBLE STRIP

MILL AND OVERLAY 1-3/4 INCH

1522+46.27, 21.63' RT

1519+31.96, 18.43' RT

1522+16.62, 18.74' RT

STH 16 (OCONOMOWOC BYPASS)

1518+29.88, 21.33' RT

1518+79.41, 16.43' RT

PLACE MGS GUARDRAIL

WISCONSIN AVE

END CONSTRUCTION
STA 322Y+42
MATCH EXISTING
BUTT JOINT REQUIRED

BEGIN ASPHALTIC SHOULDER
RUMBLE STRIPS
STA 1512+65

RAMP Y (EB EXIT RAMP)

MILL AND OVERLAY 1-3/4 INCH

BEGIN CONSTRUCTION
STA 521V+30
MATCH EXISTING
BUTT JOINT REQUIRED

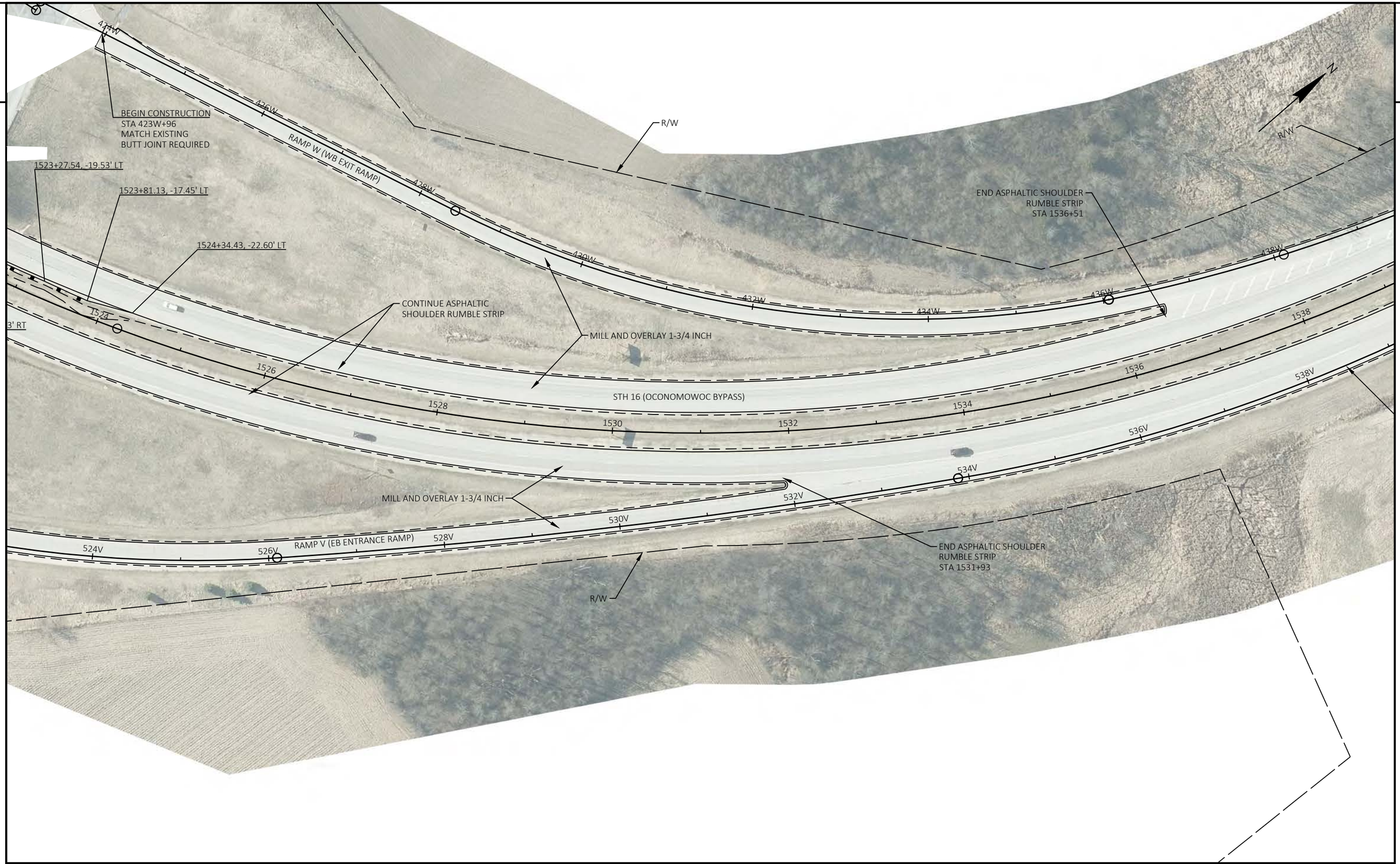
R/W

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	PLAN DETAILS	SHEET 32	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021203-pd

PLOT DATE : 10/16/2023 11:32 AM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	PLAN DETAILS	SHEET 33	E

2

2

N

R/W

INSTALL MGS GUARDRAIL

SKI SLIDE ROAD

BEGIN ASPHALTIC SHOULDER
RUMBLE STRIPS
STA 1545+12

MILL AND OVERLAY 1-3/4 INCH

CONTINUE ASPHALTIC
SHOULDER RUMBLE STRIP

1543+26.75, -21.70' LT

1543+56.74, -18.73' LT

1545+94.24, -18.57' LT

1546+47.33, -16.57' LT

1546+97.33, -21.57' LT

438W

440W

442W

1538

1540

1542

1544

1546

1548

1550

1552

538V

540V

542V

544V

STH 16 (OCONOMOWOC BYPASS)

1540+30.42, 21.76' RT

1540+80.42, 16.76' RT

1541+33.51, 18.72' RT

1544+21.01, 18.65' RT

1544+51.01, 21.65' RT

REMOVE EXISTING GUARDRAIL

CONTINUE ASPHALTIC
SHOULDER RUMBLE STRIP

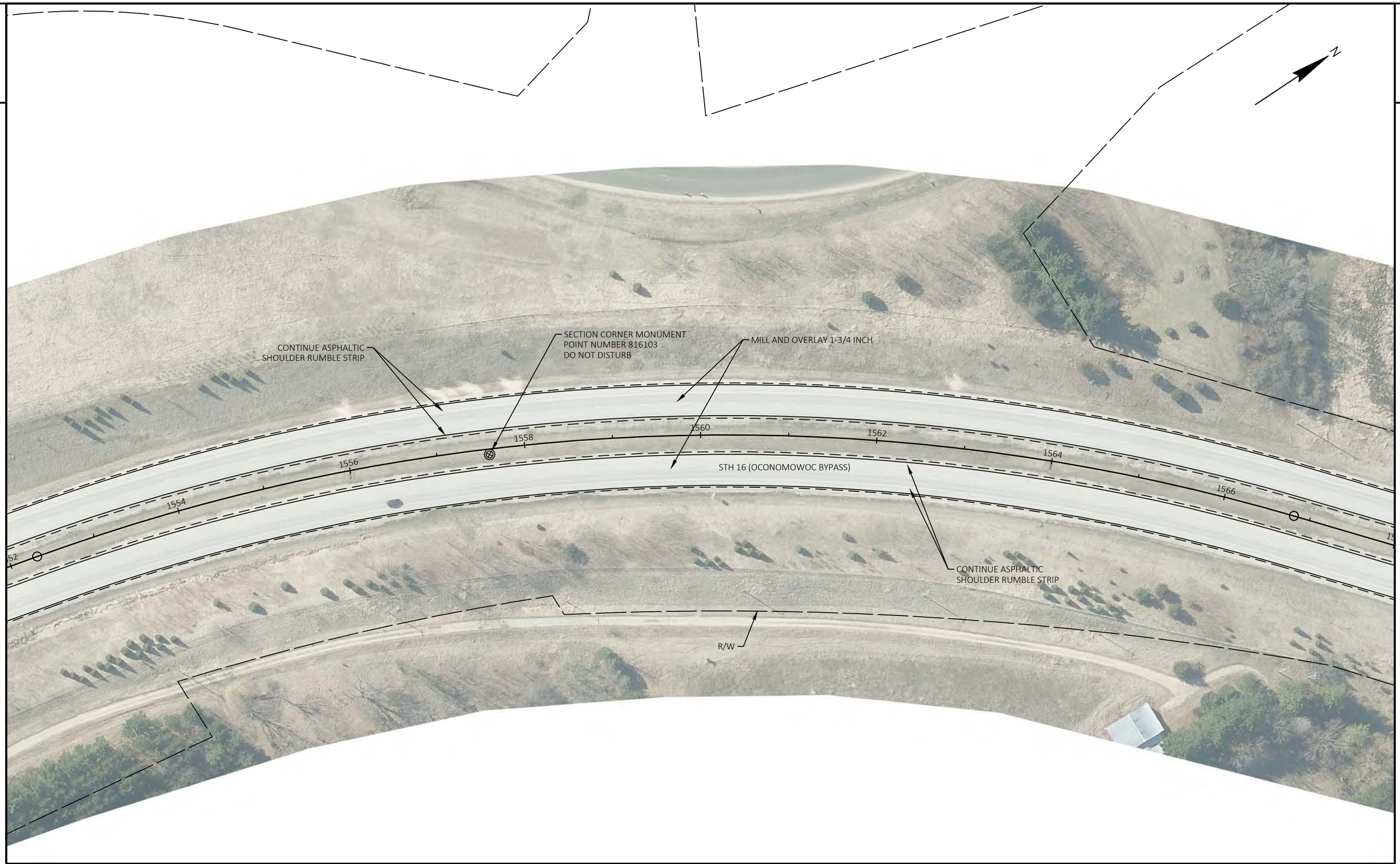
BEGIN ASPHALTIC SHOULDER
RUMBLE STRIP
STA 1538+48

EXISTING 24x28-INCH DUAL CULVERT

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	PLAN DETAILS	SHEET 34	E

2

2



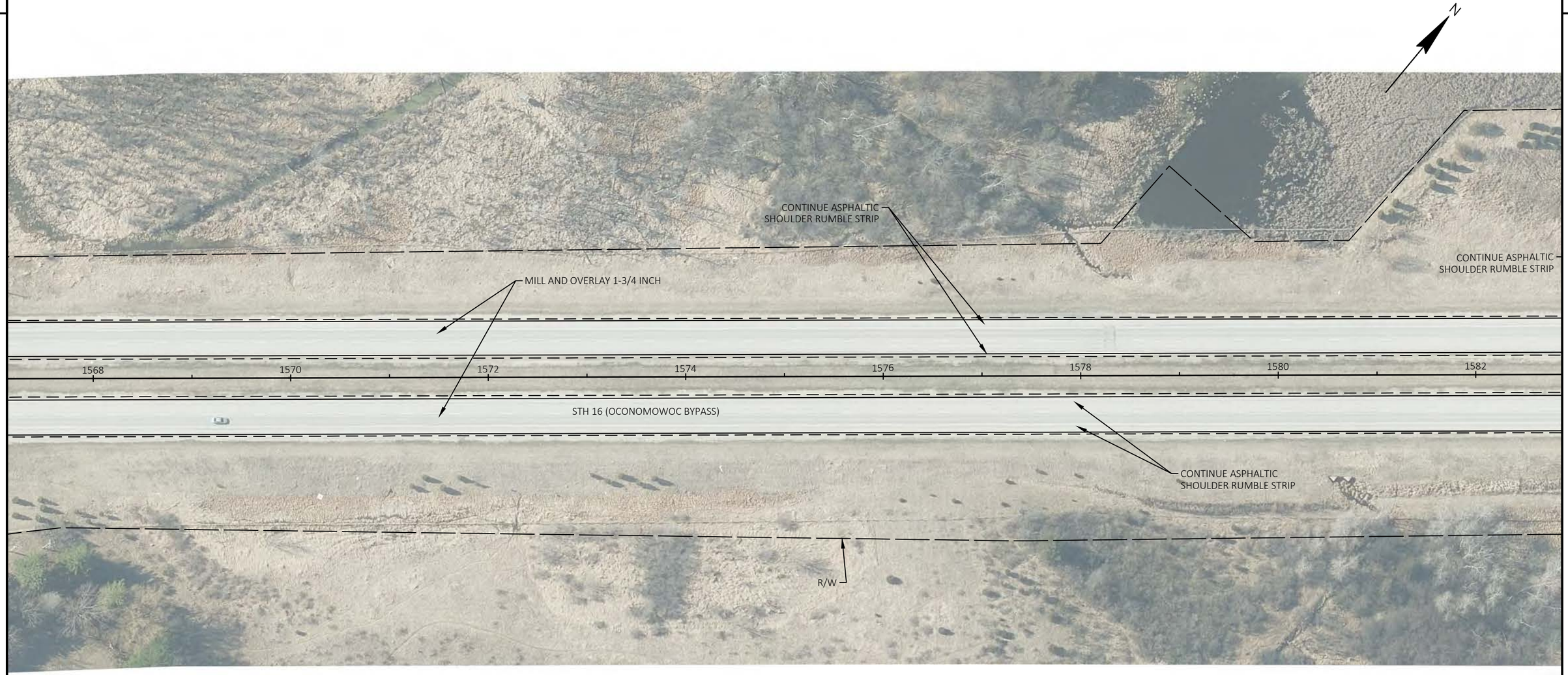
PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	PLAN DETAILS	SHEET 35	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021206-pd

PLOT DATE : 10/16/2023 11:32 AM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

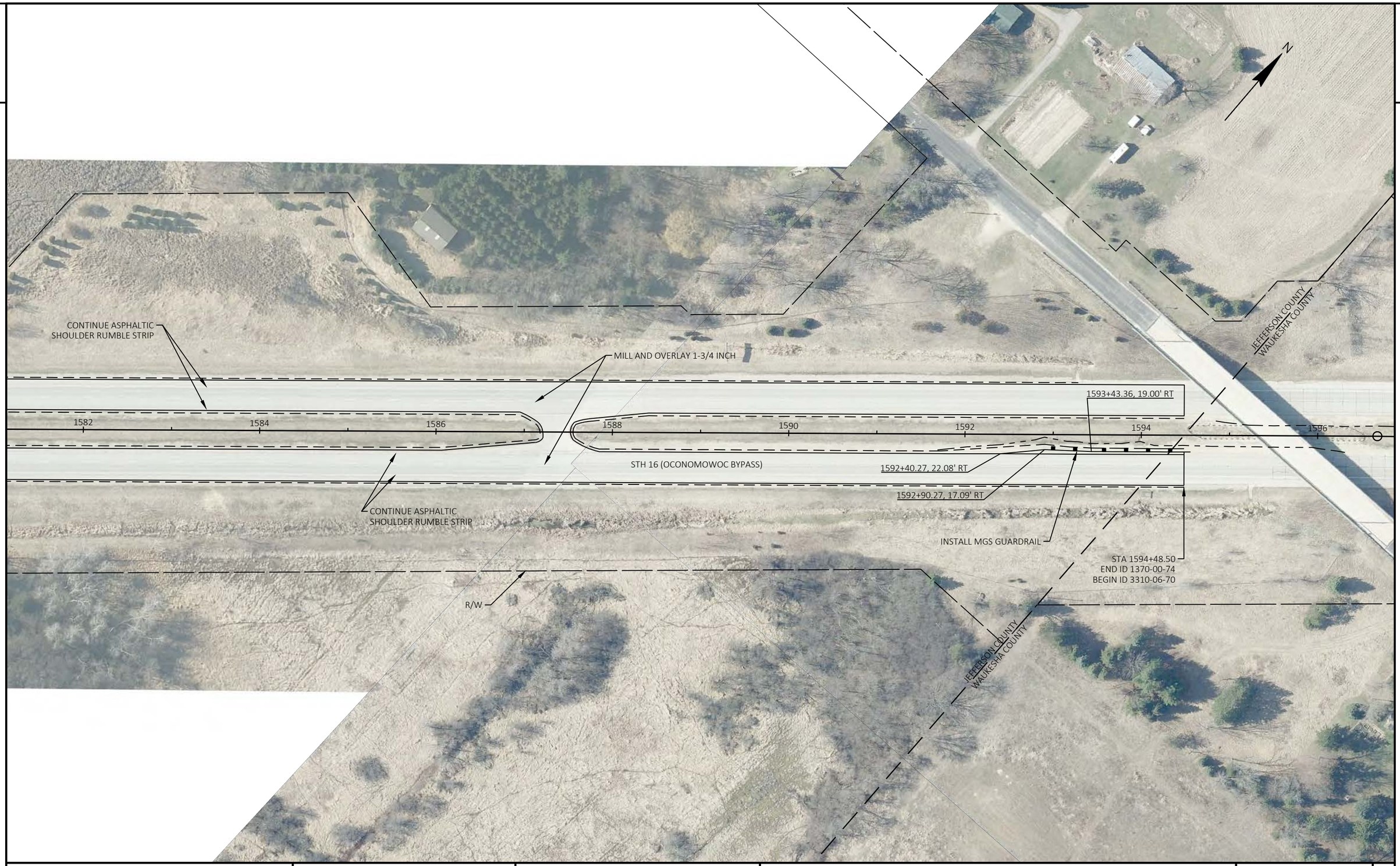


2

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	PLAN DETAILS	SHEET 36	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021207-pd
PLOT DATE : 10/16/2023 11:32 AM
PLOT BY : DILLINGHAM, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2



2

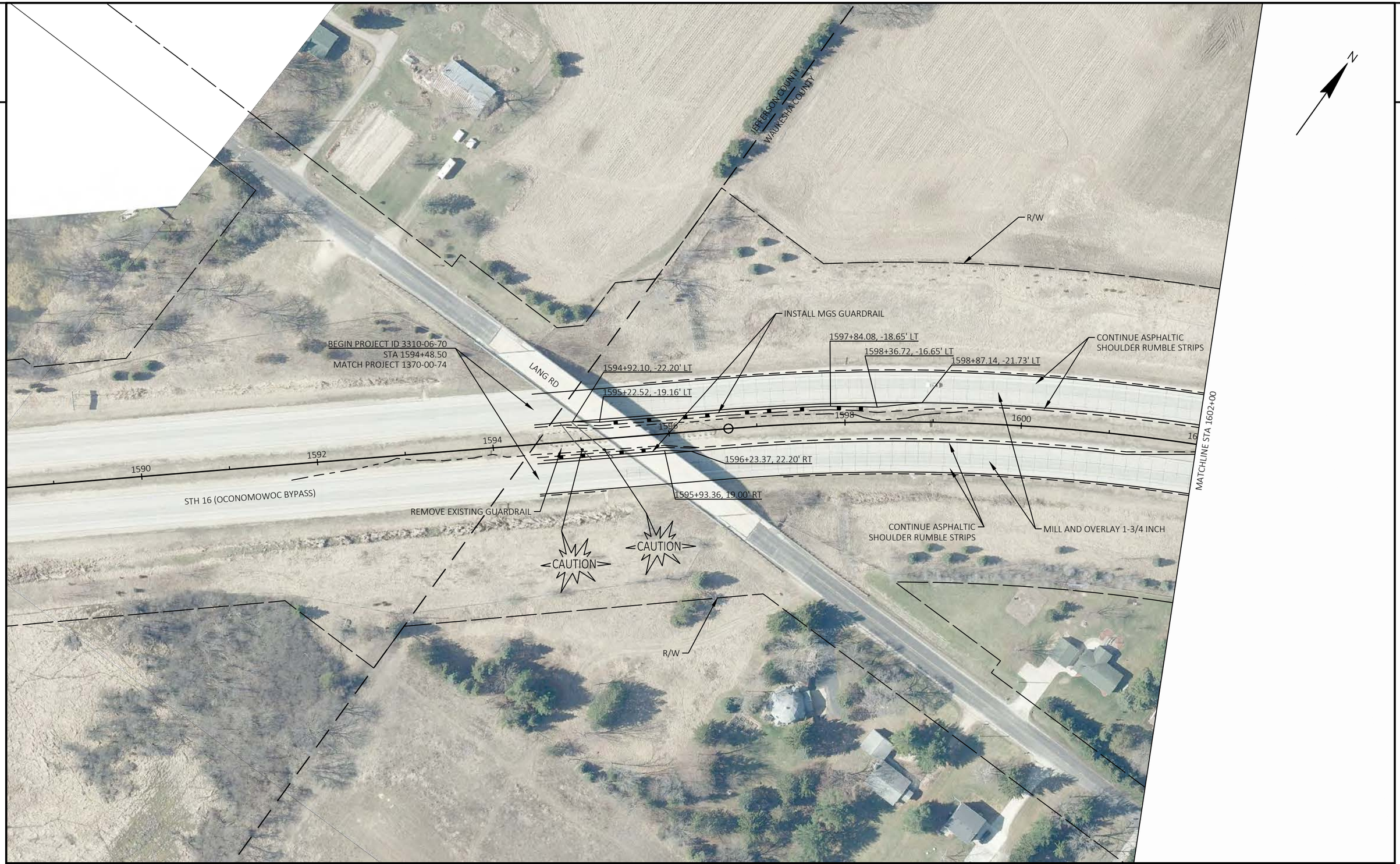
PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	PLAN DETAILS	SHEET 37	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021208-pd

PLOT DATE : 10/16/2023 11:32 AM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 38	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\021211-PD.DWG
LAYOUT NAME - 021211-pd

PLOT DATE : 10/16/2023 11:32 AM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

R/W

CONTINUE ASPHALTIC
SHOULDER RUMBLE STRIPS

MILL AND OVERLAY 1-3/4 INCH

1604

1606

1608

1610

1612

1614

STH 16 (OCONOMOWOC BYPASS)

CONTINUE ASPHALTIC
SHOULDER RUMBLE STRIPS

MATCHLINE STA 1602+00

MATCHLINE STA 1616+00

R/W

PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 39	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\021211-PD.DWG
LAYOUT NAME - 021212-pd

PLOT DATE : 10/16/2023 11:32 AM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 40	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\021211-PD.DWG
LAYOUT NAME - 021213-pd

PLOT DATE : 10/16/2023 11:32 AM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

R/W

CONTINUE ASPHALTIC
SHOULDER RUMBLE STRIPS

MILL AND OVERLAY 1-3/4 INCH

MATCHLINE STA 1630+00

MATCHLINE STA 1644+00

1642+61.54, 22.09' RT

1643+12.24, 16.99' RT

1643+65.33, 18.96' RT

1632

1634

1636

1638

1640

1642

STH 16 (OCONOMOWOC BYPASS)

CONTINUE ASPHALTIC
SHOULDER RUMBLE STRIPS

LANG RD

R/W

PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 41	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\021211-PD.DWG
LAYOUT NAME - 021214-pd

PLOT DATE : 10/16/2023 11:32 AM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

REMOVE 10 FT FENCE
PLACE 10-FT GATE
3RD PANEL FROM
ANGLE POINT

R/W

LANG RD

CONTINUE ASPHALTIC
SHOULDER RUMBLE STRIPS

REMOVE EXISTING GUARDRAIL

EXISTING 18-INCH SSPRC

INSTALL MGS GUARDRAIL

MILL AND OVERLAY 1-3/4 INCH

1645+31.16, -19.12' LT

1645+01.16, -22.08' LT

1647+68.66, -19.05' LT

1648+21.75, -17.05' LT

1648+72.78, -22.15' LT

MATCHLINE STA 1644+00

44 1646 1648 1650 1652 1654 1656 16

MATCHLINE STA 1658+00

1645+90.33, 18.89' RT

1646+20.33, 21.93' RT

STH 16 (OCONOMOWOC BYPASS)

CAUTION

CAUTION

PENNSYLVANIA ST

CONTINUE ASPHALTIC
SHOULDER RUMBLE STRIPS

REMOVE 10 LF FENCE
PLACE 10-FT GATE
3RD PANEL NE FROM
ANGLE POINT

R/W

PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 42	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\021211-PD.DWG
LAYOUT NAME - 021215-pd
PLOT DATE : 10/16/2023 11:33 AM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

N

R/W

LANG ROAD

CONTINUE ASPHALTIC
SHOULDER RUMBLE STRIPS

MILL AND OVERLAY 1-3/4 INCH

MATCHLINE STA 1658+00

58 1660 1662 1664 1666 1668 1670 16

MATCHLINE STA 1672+00

STH 16 (OCONOMOWOC BYPASS)

CONTINUE ASPHALTIC
SHOULDER RUMBLE STRIPS

R/W

PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 43	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\021211-PD.DWG
LAYOUT NAME - 021216-pd

PLOT DATE : 10/16/2023 11:33 AM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 44	E

2



LEGEND

######	EROSION MAT URBAN CLASS I TYPE A (INCIDENTAL TO BARRIER SYSTEM GRADING SHAPING FINISHING)
	INLET PROTECTION TYPE A
△△△	TEMPORARY DITCH CHECK
○○○	CULVERT PIPE DITCH CHECK
~→	SURFACE WATER FLOW

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	EROSION CONTROL	SHEET 45	E

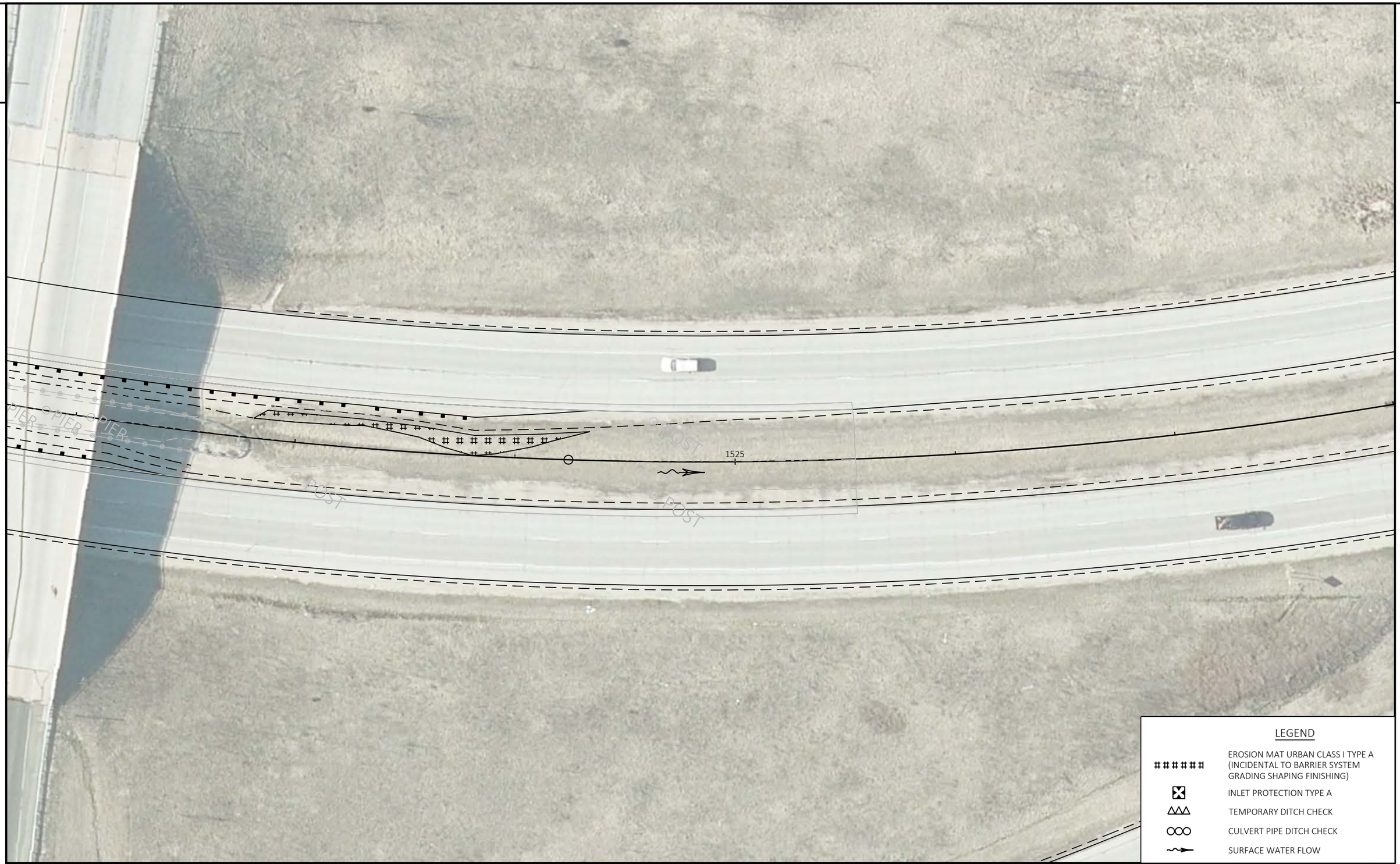
FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 05

PLOT DATE : 12/14/2023 7:02 AM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2



PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	EROSION CONTROL	SHEET 46	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 06

PLOT DATE : 12/14/2023 7:03 AM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

PT: 1539+66.34

1540

LEGEND

######	EROSION MAT URBAN CLASS I TYPE A (INCIDENTAL TO BARRIER SYSTEM GRADING SHAPING FINISHING)
	INLET PROTECTION TYPE A
△△△	TEMPORARY DITCH CHECK
○○○	CULVERT PIPE DITCH CHECK
~→	SURFACE WATER FLOW

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	EROSION CONTROL	SHEET 47 E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 07

PLOT DATE : 12/14/2023 7:03 AM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



2

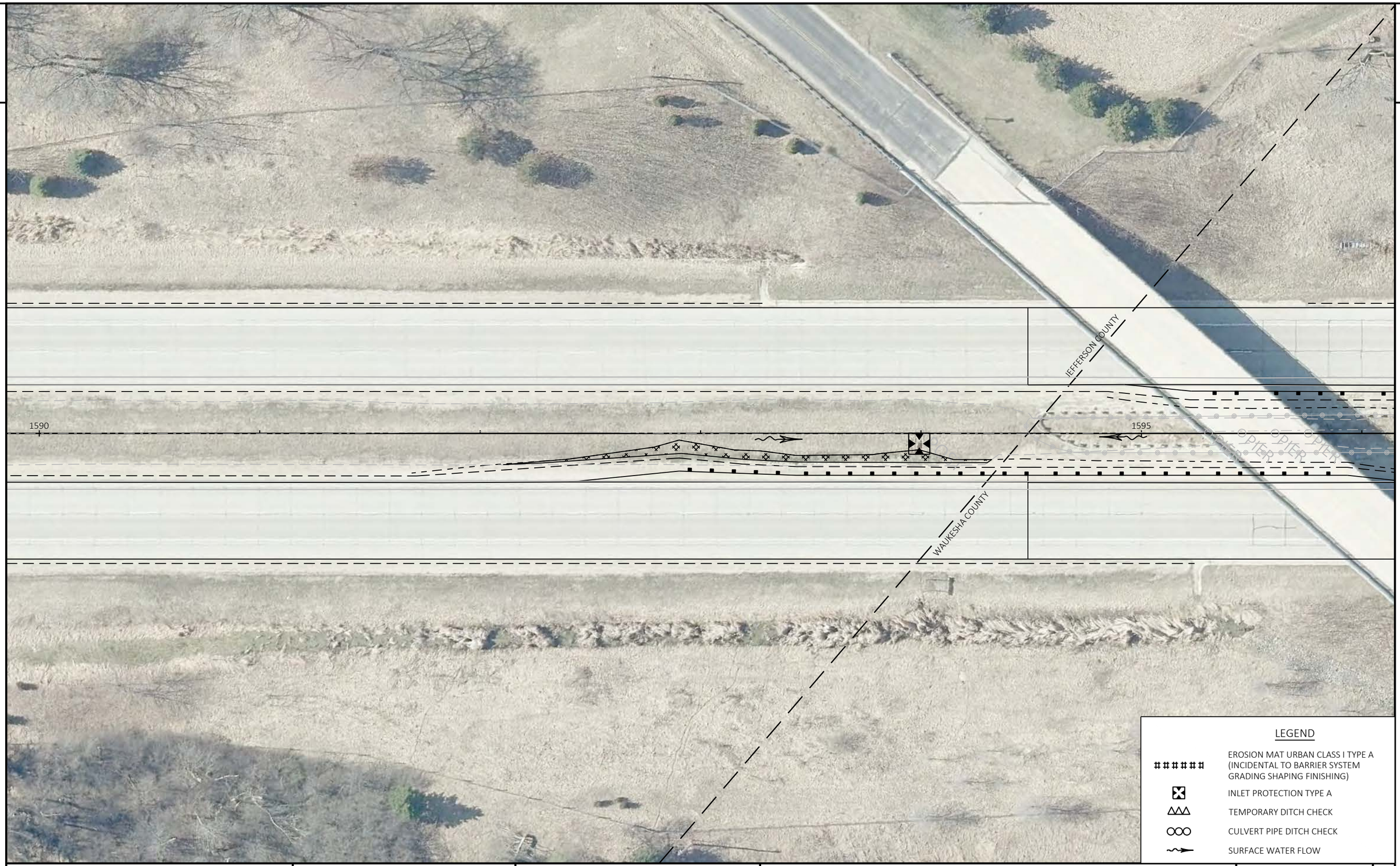
PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	EROSION CONTROL	SHEET 48	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 08

PLOT DATE : 12/14/2023 7:03 AM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



2

PROJECT NO: 1370-00-74 & 3310-06-70	HWY: STH 16	COUNTY: JEFFERSON & WAUKESHA	EROSION CONTROL	SHEET 49	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 09

PLOT DATE : 12/14/2023 7:03 AM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2



PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 50	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 10

PLOT DATE : 12/14/2023 7:03 AM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



2

LEGEND

######	EROSION MAT URBAN CLASS I TYPE A (INCIDENTAL TO BARRIER SYSTEM GRADING SHAPING FINISHING)
	INLET PROTECTION TYPE A
	TEMPORARY DITCH CHECK
	CULVERT PIPE DITCH CHECK
	SURFACE WATER FLOW

PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 51	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 11

PLOT DATE : 12/14/2023 7:03 AM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



2

PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 52	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 12

PLOT DATE : 12/14/2023 7:03 AM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN
- [XXXX] INDICATES YEAR OF SIGN

N

BP 1467+00.35

STOP
R1-1
ESTR

Wayside
County Park
D7-68R
ESTR

NO
PASSING
ZONE
W14-3
ESTR

STH 16

1468 1470 1472 1474 1475 STH 16 1476

Wayside
County Park
D7-68L
ESTR

Rock River Rd
D1-1
ESTR

Kanow
County Park
D7-68L
ESTR

TYPE II ALUMINUM SIGNS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE COUNTY SIGN SHOP. CONTACT THE FOLLOWING INDIVIDUAL AT THE SIGN SHOP FOR DISTRIBUTION COUNTY LOCATION.

SIGNING COORDINATOR	COUNTY	PHONE #
TIMM PUNZEL	JEFFERSON	608-246-5352
CHUCK SALDIVAR	WAUKESHA	414-750-1682

SIGNS SHALL BE CAREFULLY REMOVED FROM SIGN SUPPORTS. THE SIGNS SHALL BE PALLETIZED FOR HANDLING WITH A FORKLIFT (SEE STANDARD SPEC 638.3.4). THE REGIONAL SIGN SHOP (414-266-1165) SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF THE SIGNS.

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

WOOD POST SIZES FOR TYPE II SIGNS ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

STREET NAME SIGNS ARE PROPERTY OF THE MUNICIPALITY (CITY, VILLAGE OR TOWN). THE MUNICIPALITY SHALL BE CONTACTED TO REMOVE THEIR STREET NAME SIGNS PRIOR TO CONSTRUCTION AND IT IS THEIR RESPONSIBILITY TO REINSTALL THE OLD SIGNS OR REPLACE THEM FOLLOWING CONSTRUCTION. WISDOT DOES NOT FURNISH OR INSTALL STREET NAME SIGNS. THE STREET NAME SIGNS SHALL NOT BE PLACED ON TOP OF THE STOP SIGNS.

LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM. PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.

BOX OUT OR CORING OF CONCRETE SIGN POSTS IS INCIDENTAL TO THE POST

SHEET 1 OF 10

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	PERMANENT SIGNING PLAN	SHEET 53	E

FILE NAME : N:\PDS\C3D\CAD\13700004\SIGN\023201_PS.DWG
LAYOUT NAME - 01

PLOT DATE : 8/17/2023 8:23 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XXXX] — INDICATES YEAR OF SIGN

N

M1-92 ESTR

WEST 16 J4-1 ESTR

16 J13-1 ESTR

STOP R1-1 ESTR

ROCK RIVER RD

PI: 1479+98.81

W6-3 ESTR

Kanow County Park D7-68R ESTR

Rock River Rd D1-1 ESTR

PI: 1487+83.14

1476 1478 1480 1482 1484 1485 1486 1488 2490

STH 16

M1-92

MP6-1 ESTR

OLD HI-WAY LN

R1-1 ESTR

PEDESTRIANS BICYCLES NON MOTORIZED TRAFFIC MOTOR BICYCLES PROHIBITED 1 R5-57(2S)

W6-1 ESTR

OLD HI-WAY LN

SHEET 2 OF 10

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	PERMANENT SIGNING PLAN	SHEET 54	E

FILE NAME : N:\PDS\C3D\CAD\13700004\SIGN\023201_PS.DWG
LAYOUT NAME - 02

PLOT DATE : 8/17/2023 8:23 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XXXX] — INDICATES YEAR OF SIGN

N

DO NOT ENTER
R5-1
ESTR

W6-2
ESTR

WRONG WAY
R5-1A
ESTR

ADOPT A HIGHWAY
I55-56
OCONOMOWOC ROTARY CLUB BSA TROOP 12
I55-56P
ESTR

W4-2L
ESTR

THIS LANE ENDS
W9-62
ESTR
[2015]

LEFT LANE ENDS
W9-1L
ESTR

PI 2490+70.33

BP 390+03.22

PC 1390+85.56

STH 16

2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505

1490 1491 1492 1493 1494 1495 1496 1497 1498 1499 1500 1501 1502 1503 1504 1505

2 R4-7 MOVE
3 W5-54 MOVE

Oconomowoc
NEXT 3 EXITS
TYPE I SIGN
ESTR
[2018]

EXISTING SIGN STRUCTURE
TO REMAIN
S-28-14

SHEET 3 OF 10

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	PERMANENT SIGNING PLAN	SHEET 55	E

FILE NAME : N:\PDS\C3D\CAD\13700004\SIGN\023201_PS.DWG
LAYOUT NAME - 03

PLOT DATE : 8/17/2023 8:23 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XXXX] — INDICATES YEAR OF SIGN

EXPRESSWAY ENDS AHEAD
TYPE I SIGN
ESTR

W4-1R
ESTR

Wisconsin Ave
TYPE I SIGN [2018]
ESTR

EXIT
E5-1
ESTR

W3-1
ESTR

WRONG WAY
R5-1A
ESTR

Old Hwy 16 / Wisconsin Ave
D1-2
ESTR

WRONG WAY
R5-1A
ESTR

NO THRU TRUCKS AHEAD
ESTR

WISCONSIN AVE
STH 16
N

PC: 307+94.80
BP: 307+94.80
PC: 308+47.09
EP: 1508+82.36
BP: 1508+82.35
PT: 1506+59.74
PRT 1433+55.83
PEC 1331+34.75

SHEET 4 OF 10

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	PERMANENT SIGNING PLAN	SHEET 56	E

FILE NAME : N:\PDS\C3D\CAD\13700004\SIGN\023201_PS.DWG
LAYOUT NAME - 04
PLOT DATE : 8/17/2023 8:23 AM
PLOT BY : MARTENS, KAREN L
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

2

2

ONE WAY
R6-1R

STOP
R1-1
ESTR

WRONG WAY
R5-1A
ESTR

W3-1
ESTR

STH 16

WISCONSIN AVE

ONE WAY
R6-2L
ESTR

DO NOT ENTER
R5-1C
ESTR

STOP
R1-1

DIVIDED HIGHWAY
R6-3
ESTR

WRONG WAY
R5-1A
ESTR

Oconomowoc
Wisconsin Ave
D1-2
ESTR

W4-1R
ESTR

EXPRESSWAY
ENDS
3/4 MILE

TYPE I SIGN
ESTR

[2018]

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XXXX] — INDICATES YEAR OF SIGN

PC: 103+18.12

SHEET 5 OF 10

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	PERMANENT SIGNING PLAN	SHEET 57	E

FILE NAME : N:\PDS\C3D\CAD\13700004\SIGN\023201_PS.DWG
LAYOUT NAME - 05

PLOT DATE : 8/17/2023 8:23 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XXXX] — INDICATES YEAR OF SIGN

EXIT

E5-1
ESTR

N

SKI SLIDE RD

Wisconsin Ave

TYPE I SIGN [2018]
ESTR

STH 16

SKI SLIDE RD

EXCEPT MAINTENANCE AND POLICE AUTHORIZED VEHICLES

R3-4B
ESTR

SHEET 6 OF 10

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	PERMANENT SIGNING PLAN	SHEET 58	E

FILE NAME : N:\PDS\C3D\CAD\13700004\SIGN\023201_PS.DWG
LAYOUT NAME - 06

PLOT DATE : 8/17/2023 8:23 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XXXX] — INDICATES YEAR OF SIGN

N

SKI SLIDE RD

REC 1552+31.46

1550 1552 1554 1555 1556 1558 1560 1562 1564

STH 16

STH 16

EAST
16
J4-1
ESTR

SPEED LIMIT
55
R2-1
ESTR

SHEET 7 OF 10

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	PERMANENT SIGNING PLAN	SHEET 59	E

FILE NAME : N:\PDS\C3D\CAD\13700004\SIGN\023201_PS.DWG
LAYOUT NAME - 07

PLOT DATE : 8/17/2023 8:23 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XXXX] — INDICATES YEAR OF SIGN

NO SIGNS THIS SHEET

N

STH 16

1564 1565 1566 1568 1570 1572 1574 1575 1576 1578

STH 16

SHEET 8 OF 10

2

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	PERMANENT SIGNING PLAN	SHEET 60	E

FILE NAME : N:\PDS\C3D\CAD\13700004\SIGN\023201_PS.DWG
LAYOUT NAME - 08

PLOT DATE : 8/17/2023 8:23 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XXXX] — INDICATES YEAR OF SIGN

N

394

LANG RD

396

Wisconsin Ave
EXIT 1 MILE

TYPE I SIGN
ESTR
[2018]

STH 16

1578 1580 1582 1584 1585 1586 1588 1590 1592

STH 16

EXCEPT MAINTENANCE AND POLICE AUTHORIZED VEHICLES

R3-4B
ESTR

SHEET 9 OF 10

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	PERMANENT SIGNING PLAN	SHEET 61	E

FILE NAME : N:\PDS\C3D\CAD\13700004\SIGN\023201_PS.DWG
LAYOUT NAME - 09

PLOT DATE : 8/17/2023 8:23 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN
- [XXXX] INDICATES YEAR OF SIGN

N

396
LANG RD
Pl. 397+68.85
398
Pl. 398+87.18
POC 1596+67.55
1594
1595
1596
1598
1600
1602
1604
1605
1606
1608
400
STH 16
402
404
LANG RD
406
STH 16

SHEET 10 OF 10

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	PERMANENT SIGNING PLAN	SHEET 62	E

FILE NAME : N:\PDS\C3D\CAD\13700004\SIGN\023201_PS.DWG
LAYOUT NAME - 10

PLOT DATE : 8/17/2023 8:23 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN
- [XXXX] INDICATES YEAR OF SIGN

N

396
LANG RD
398
Pl: 397+68.85
Pl: 398+87.18
POC 1595+66.87555
STH 16
402
404
406
LANG RD
1594
1595
1596
1598
1600
1602
1604
1605
1606
1608
STH 16

Lang Rd
M1-94
10

Jefferson Co
I2-2
ESTR

Waukesha Co
I2-2
ESTR

Lang Rd
M1-94
ESTR

DIGBY MAINTENANCE AND POLICE AUTHORIZED VEHICLES
R3-4B
ESTR

SPEED LIMIT 55
R2-1
ESTR

TYPE II ALUMINUM SIGNS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE COUNTY SIGN SHOP. CONTACT THE FOLLOWING INDIVIDUAL AT THE SIGN SHOP FOR DISTRIBUTION COUNTY LOCATION.

SIGNING COORDINATOR	COUNTY	PHONE #
TIMM PUNZEL	JEFFERSON	608-246-5352
CHUCK SALDIVAR	WAUKESHA	414-750-1682

SIGNS SHALL BE CAREFULLY REMOVED FROM SIGN SUPPORTS. THE SIGNS SHALL BE PALLETIZED FOR HANDLING WITH A FORKLIFT (SEE STANDARD SPEC 638.3.4). THE REGIONAL SIGN SHOP (414-266-1165) SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF THE SIGNS.

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

WOOD POST SIZES FOR TYPE II SIGNS ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

STREET NAME SIGNS ARE PROPERTY OF THE MUNICIPALITY (CITY, VILLAGE OR TOWN). THE MUNICIPALITY SHALL BE CONTACTED TO REMOVE THEIR STREET NAME SIGNS PRIOR TO CONSTRUCTION AND IT IS THEIR RESPONSIBILITY TO REINSTALL THE OLD SIGNS OR REPLACE THEM FOLLOWING CONSTRUCTION. WISDOT DOES NOT FURNISH OR INSTALL STREET NAME SIGNS. THE STREET NAME SIGNS SHALL NOT BE PLACED ON TOP OF THE STOP SIGNS.

LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM. PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.

BOX OUT OR CORING OF CONCRETE SIGN POSTS IS INCIDENTAL TO THE POST

SHEET 1 OF 6

PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	PERMANENT SIGNING PLAN	SHEET 63	E

FILE NAME : N:\PDS\C3D\CAD\33100600\SIGN\023201_PS.DWG
LAYOUT NAME - 01

PLOT DATE : 8/17/2023 7:53 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XXXX] — INDICATES YEAR OF SIGN

NO SIGNS THIS SHEET

N

STH 16

1608 1610 1612 1614 1615 1616 1618 1620 1622

BP: 420+77.69

418 420 422 424

SHEET 2 OF 6

PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	PERMANENT SIGNING PLAN	SHEET 64	E

FILE NAME : N:\PDS\C3D\CAD\33100600\SIGN\023201_PS.DWG
LAYOUT NAME - 02

PLOT DATE : 8/17/2023 7:53 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XXXX] — INDICATES YEAR OF SIGN

N

BP: 694+08.57

R3-4B
ESTR

EXCEPT MAINTENANCE AND POLICE AUTHORIZED VEHICLES

EP: 22+81.38

PC: 1631+35.90

PT: 1624+11.61

1624 1625 1626 1628 1630 1632 1634 1635 1636 1638

STH 16

STH 16

PI: 21+70.42

22

BP: 20+00.00

PC: 426+65.41

LANG RD

426 428 430 432 434 436 438

PT: 434+40.10

PC: 438+00.61

67 NORTH
Oconomowoc
Mayville
EXIT 1 MILE

TYPE I SIGN
ESTR

[2016]

SHEET 3 OF 6

PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	PERMANENT SIGNING PLAN	SHEET 65	E

FILE NAME : N:\PDS\C3D\CAD\33100600\SIGN\023201_PS.DWG
LAYOUT NAME - 03

PLOT DATE : 8/17/2023 7:53 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XXXX] — INDICATES YEAR OF SIGN

N

PENNSYLVANIA ST

504

PI: 700+00.01

EP: 706+00.01

Pennsylvania St
M1-94
ESTR

696 698 PI: 502+25.71 700 702 704 706

LANG RD

LANG RD

502

PT: 641+60.64

1638 1640 1642 1644 1645 1646 1648 1650 1652

STH 16

STH 16

PI: 500+00.01

500

Pennsylvania St
M1-94
ESTR

VILLAGE OF
Lac La Belle
I2-3A
ESTR

498

LANG RD

496

EP: 448+33.00

PT: 444+45.61

442 444 446 448

SHEET 4 OF 6

PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	PERMANENT SIGNING PLAN	SHEET 66	E

FILE NAME : N:\PDS\C3D\CAD\33100600\SIGN\023201_PS.DWG
LAYOUT NAME - 04

PLOT DATE : 8/17/2023 7:53 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XXXX] — INDICATES YEAR OF SIGN

N

LANG RD

PEC 1664+00.99

STH 16

1654 1655 1656 1658 1660 1662 1664 1665 1666 1668

STH 16

Park & Ride
NEXT RIGHT

TYPE I SIGN — [2016]
ESTR

R3-4B
ESTR

SHEET 5 OF 6

PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	PERMANENT SIGNING PLAN	SHEET 67	E

FILE NAME : N:\PDS\C3D\CAD\33100600\SIGN\023201_PS.DWG
LAYOUT NAME - 05

PLOT DATE : 8/17/2023 7:53 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XXXX] — INDICATES YEAR OF SIGN

N

LANG ST

VILLAGE OF
Lac La Belle
I2-3A
ESTR

SPEED LIMIT 55
R2-1
ESTR

WEST 16
J4-1
ESTR

PIPE 1.67 8.66 2.47

STH 16

1668 1670 1672 1674 1675 1676 1678 1680 1682

STH 16

16 EAST BYPASS
67 SOUTH
AHEAD

TYPE I SIGN
ESTR [2016]

SHEET 6 OF 6

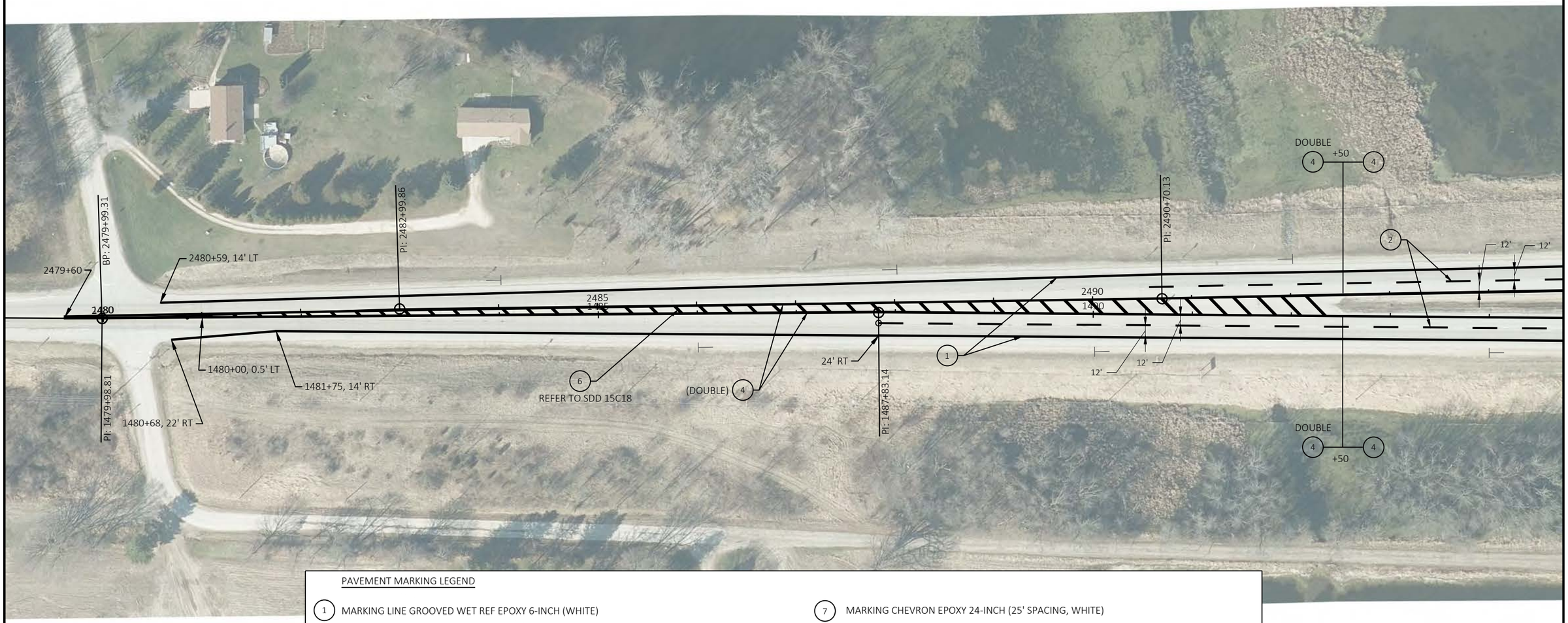
PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	PERMANENT SIGNING PLAN	SHEET 68	E

FILE NAME : N:\PDS\C3D\CAD\33100600\SIGN\023201_PS.DWG
LAYOUT NAME - 06

PLOT DATE : 8/17/2023 7:53 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



PAVEMENT MARKING LEGEND

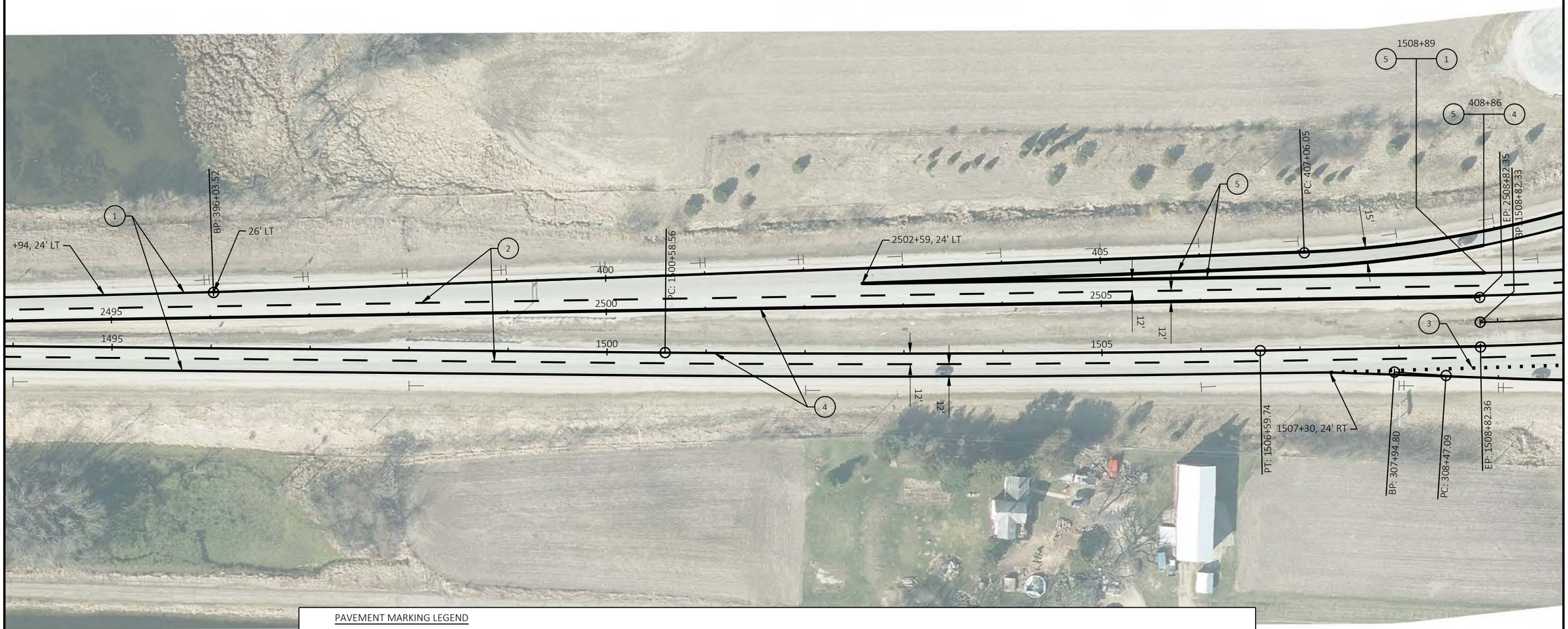
1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED PERMANENT TAPE 6-INCH & MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' LINE WHITE, 12.5' LINE BLACK, 25' GAP)
3. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
5. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (WHITE)
6. MARKING DIAGONAL EPOXY 12-INCH (25' SPACING, YELLOW)
7. MARKING CHEVRON EPOXY 24-INCH (25' SPACING, WHITE)
8. MARKING STOP LINE EPOXY 18-INCH (WHITE)

⊥ / ⊥ SINGLE / DOUBLE DELINEATOR W/ STEEL POST

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	PAVEMENT MARKING	SHEET 69	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 01
PLOT DATE : 9/28/2023 6:35 AM
PLOT BY : DILLINGHAM, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED PERMANENT TAPE 6-INCH & MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' LINE WHITE, 12.5' LINE BLACK, 25' GAP)
3. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
5. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (WHITE)
6. MARKING DIAGONAL EPOXY 12-INCH (25' SPACING, YELLOW)
7. MARKING CHEVRON EPOXY 24-INCH (25' SPACING, WHITE)
8. MARKING STOP LINE EPOXY 18-INCH (WHITE)

⊥/⊥ SINGLE / DOUBLE DELINEATOR W/ STEEL POST

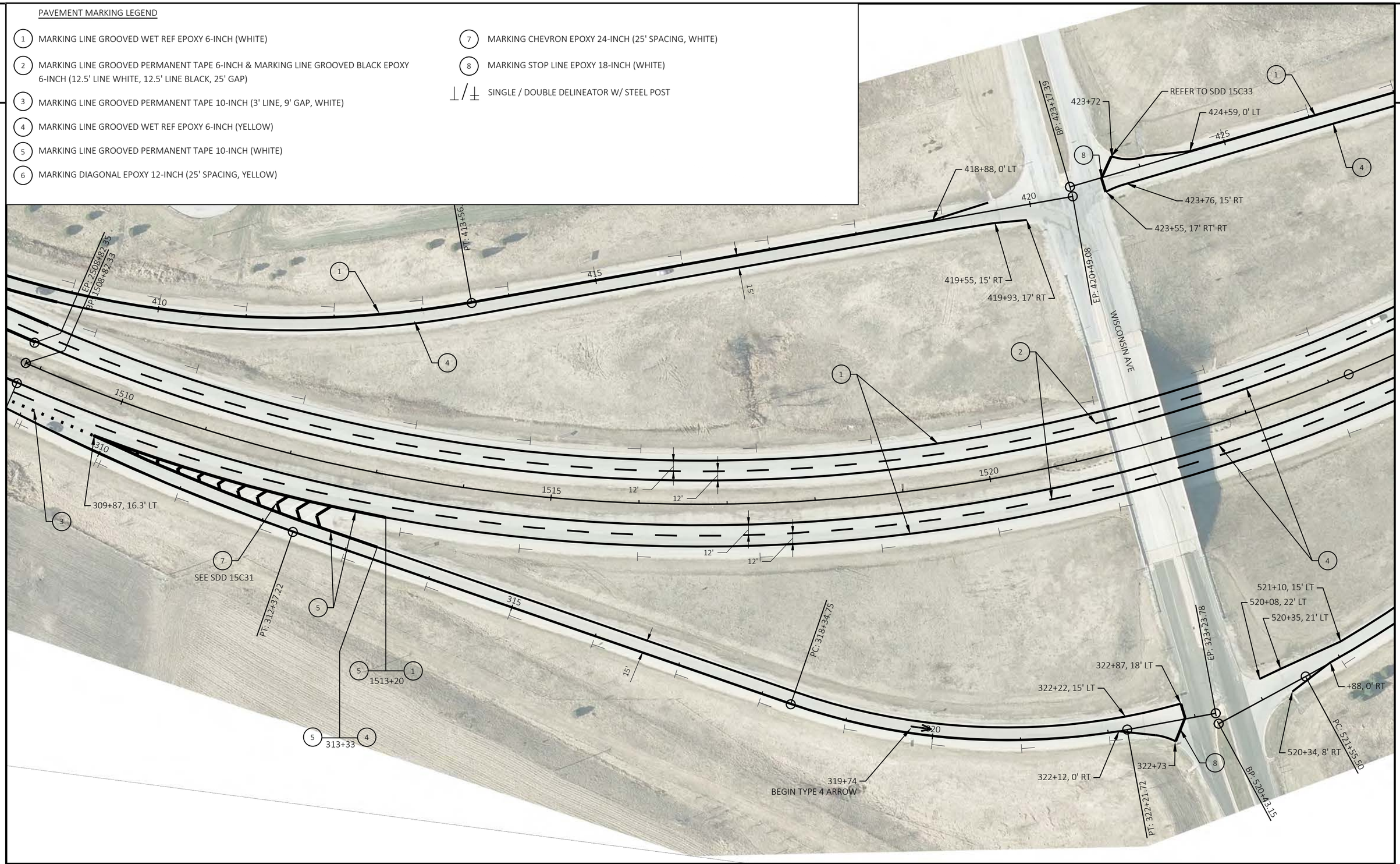
PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	PAVEMENT MARKING	SHEET 70	E

2

PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED PERMANENT TAPE 6-INCH & MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' LINE WHITE, 12.5' LINE BLACK, 25' GAP)
3. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
5. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (WHITE)
6. MARKING DIAGONAL EPOXY 12-INCH (25' SPACING, YELLOW)
7. MARKING CHEVRON EPOXY 24-INCH (25' SPACING, WHITE)
8. MARKING STOP LINE EPOXY 18-INCH (WHITE)

⊥/⊥ SINGLE / DOUBLE DELINEATOR W/ STEEL POST



PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	PAVEMENT MARKING	SHEET 71	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 03

PLOT DATE : 9/28/2023 6:35 AM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED PERMANENT TAPE 6-INCH & MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' LINE WHITE, 12.5' LINE BLACK, 25' GAP)
3. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
5. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (WHITE)
6. MARKING DIAGONAL EPOXY 12-INCH (25' SPACING, YELLOW)
7. MARKING CHEVRON EPOXY 24-INCH (25' SPACING, WHITE)
8. MARKING STOP LINE EPOXY 18-INCH (WHITE)

⊥/⊥ SINGLE / DOUBLE DELINEATOR W/ STEEL POST

425
428+29 BEGIN TYPE 4 ARROW
PC: 428+44.33
430
15'
1525
12'
12'
1530
12'
12'
1535
435
1536+29
436+28
PT: 436+06.14
PT: 440+16.08
440
PT: 1539+63.35
1540
540
539+70, 15' LT
PT: 539+93.49
PC: 526+09.13
525
530
15'
535
PT: 533+87.34
PC: 533+87.41
1531+42
531+41

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	PAVEMENT MARKING	SHEET 72	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 04
PLOT DATE : 9/28/2023 6:35 AM
PLOT BY : DILLINGHAM, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

2



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED PERMANENT TAPE 6-INCH & MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' LINE WHITE, 12.5' LINE BLACK, 25' GAP)
3. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
5. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (WHITE)
6. MARKING DIAGONAL EPOXY 12-INCH (25' SPACING, YELLOW)
7. MARKING CHEVRON EPOXY 24-INCH (25' SPACING, WHITE)
8. MARKING STOP LINE EPOXY 18-INCH (WHITE)

⊥/⊥ SINGLE / DOUBLE DELINEATOR W/ STEEL POST

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	PAVEMENT MARKING	SHEET 73	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 05
PLOT DATE : 9/28/2023 6:35 AM
PLOT BY : DILLINGHAM, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED PERMANENT TAPE 6-INCH & MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' LINE WHITE, 12.5' LINE BLACK, 25' GAP)
3. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
5. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (WHITE)
6. MARKING DIAGONAL EPOXY 12-INCH (25' SPACING, YELLOW)
7. MARKING CHEVRON EPOXY 24-INCH (25' SPACING, WHITE)
8. MARKING STOP LINE EPOXY 18-INCH (WHITE)

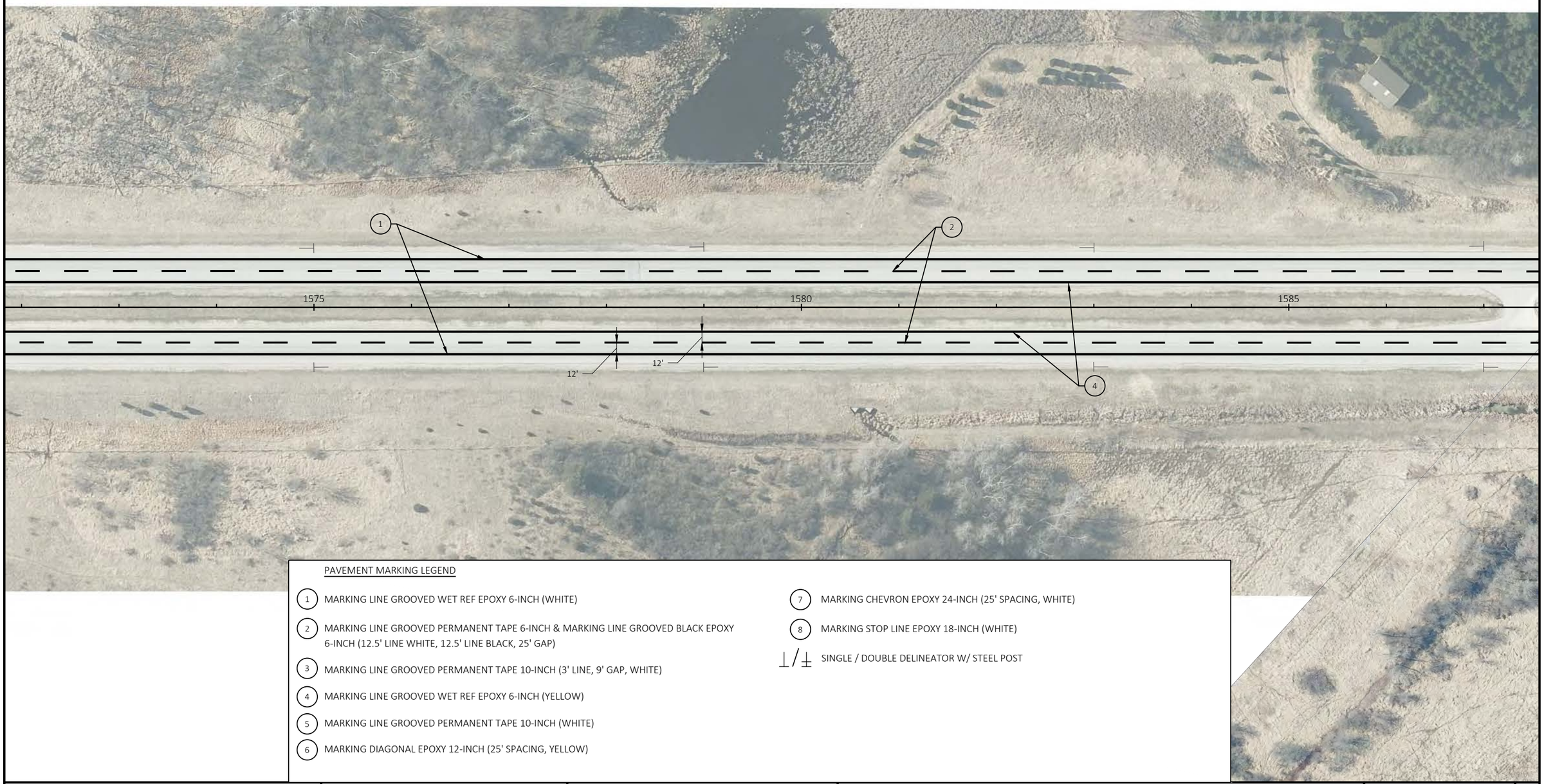
⊥/⊥ SINGLE / DOUBLE DELINEATOR W/ STEEL POST

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	PAVEMENT MARKING	SHEET 74	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 06
PLOT DATE : 9/28/2023 6:35 AM
PLOT BY : DILLINGHAM, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED PERMANENT TAPE 6-INCH & MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' LINE WHITE, 12.5' LINE BLACK, 25' GAP)
3. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
5. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (WHITE)
6. MARKING DIAGONAL EPOXY 12-INCH (25' SPACING, YELLOW)
7. MARKING CHEVRON EPOXY 24-INCH (25' SPACING, WHITE)
8. MARKING STOP LINE EPOXY 18-INCH (WHITE)

⊥/⊥ SINGLE / DOUBLE DELINEATOR W/ STEEL POST

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	PAVEMENT MARKING	SHEET 75	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 07
PLOT DATE : 9/28/2023 6:35 AM
PLOT BY : DILLINGHAM, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

LANG ROAD

PC: 1596+67.55

1590

1595

1600

STA 1594+48.5
END ID 1370-00-74
BEGIN ID 3310-06-70

1

4

2

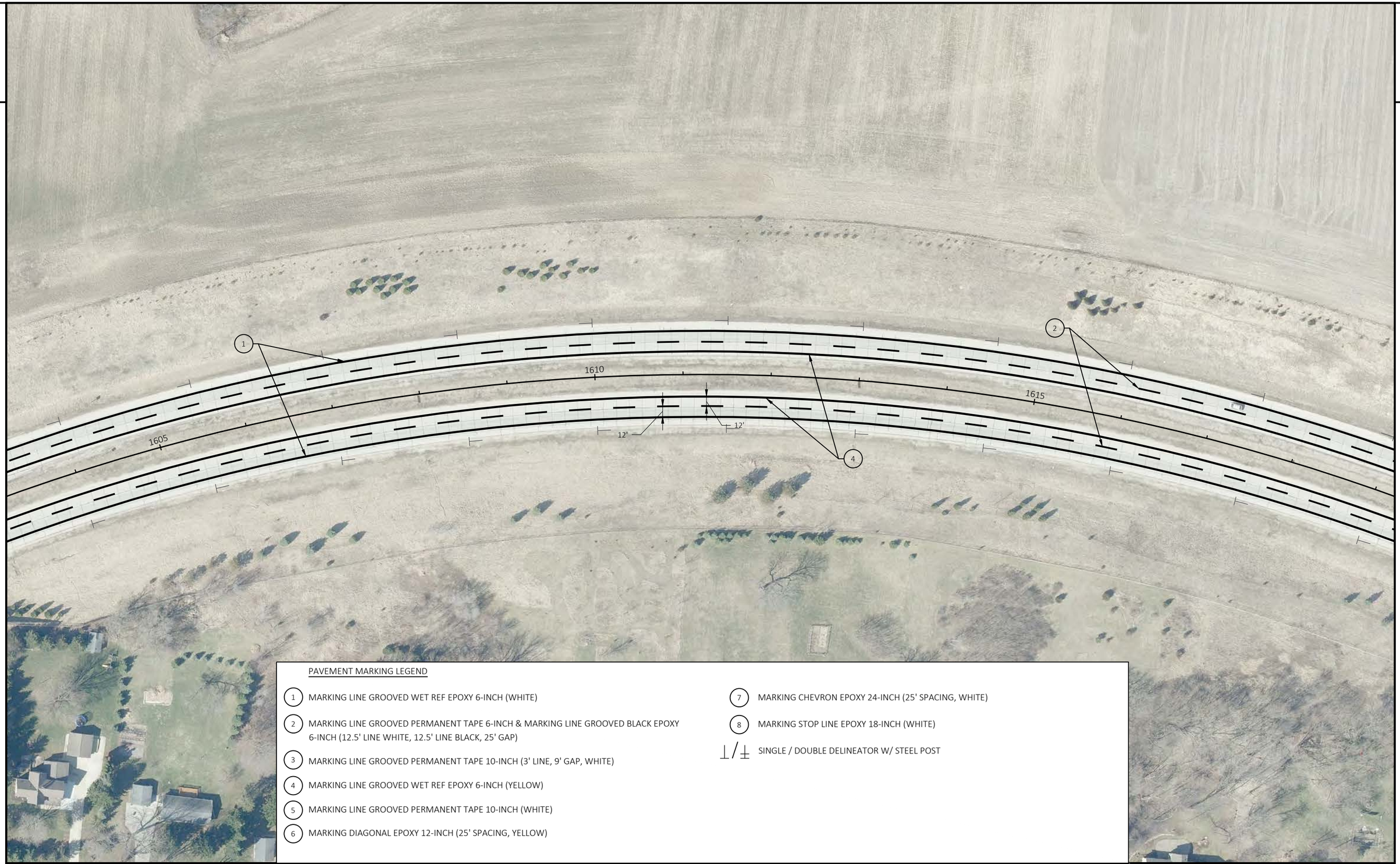
PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED PERMANENT TAPE 6-INCH & MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' LINE WHITE, 12.5' LINE BLACK, 25' GAP)
3. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
5. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (WHITE)
6. MARKING DIAGONAL EPOXY 12-INCH (25' SPACING, YELLOW)
7. MARKING CHEVRON EPOXY 24-INCH (25' SPACING, WHITE)
8. MARKING STOP LINE EPOXY 18-INCH (WHITE)

⊥/⊥ SINGLE / DOUBLE DELINEATOR W/ STEEL POST

PROJECT NO: 1370-00-74 & 3310-06-70	HWY: STH 16	COUNTY: JEFFERSON & WAUKESHA	PAVEMENT MARKING	SHEET 76	E

2



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED PERMANENT TAPE 6-INCH & MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' LINE WHITE, 12.5' LINE BLACK, 25' GAP)
3. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
5. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (WHITE)
6. MARKING DIAGONAL EPOXY 12-INCH (25' SPACING, YELLOW)
7. MARKING CHEVRON EPOXY 24-INCH (25' SPACING, WHITE)
8. MARKING STOP LINE EPOXY 18-INCH (WHITE)

⊥/⊥ SINGLE / DOUBLE DELINEATOR W/ STEEL POST

PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 77	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 09
PLOT DATE : 9/28/2023 6:35 AM
PLOT BY : DILLINGHAM, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED PERMANENT TAPE 6-INCH & MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' LINE WHITE, 12.5' LINE BLACK, 25' GAP)
3. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
5. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (WHITE)
6. MARKING DIAGONAL EPOXY 12-INCH (25' SPACING, YELLOW)
7. MARKING CHEVRON EPOXY 24-INCH (25' SPACING, WHITE)
8. MARKING STOP LINE EPOXY 18-INCH (WHITE)

⊥/± SINGLE / DOUBLE DELINEATOR W/ STEEL POST

PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 78	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 10

PLOT DATE : 9/28/2023 6:35 AM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED PERMANENT TAPE 6-INCH & MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' LINE WHITE, 12.5' LINE BLACK, 25' GAP)
3. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
5. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (WHITE)
6. MARKING DIAGONAL EPOXY 12-INCH (25' SPACING, YELLOW)
7. MARKING CHEVRON EPOXY 24-INCH (25' SPACING, WHITE)
8. MARKING STOP LINE EPOXY 18-INCH (WHITE)

⊥/⊥ SINGLE / DOUBLE DELINEATOR W/ STEEL POST

PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 79	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 11
PLOT DATE : 9/28/2023 6:35 AM
PLOT BY : DILLINGHAM, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED PERMANENT TAPE 6-INCH & MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' LINE WHITE, 12.5' LINE BLACK, 25' GAP)
3. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
5. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (WHITE)
6. MARKING DIAGONAL EPOXY 12-INCH (25' SPACING, YELLOW)
7. MARKING CHEVRON EPOXY 24-INCH (25' SPACING, WHITE)
8. MARKING STOP LINE EPOXY 18-INCH (WHITE)

⊥/⊥ SINGLE / DOUBLE DELINEATOR W/ STEEL POST

PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 80	E

2



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED PERMANENT TAPE 6-INCH & MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' LINE WHITE, 12.5' LINE BLACK, 25' GAP)
3. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (3' LINE, 9' GAP, WHITE)
4. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
5. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (WHITE)
6. MARKING DIAGONAL EPOXY 12-INCH (25' SPACING, YELLOW)
7. MARKING CHEVRON EPOXY 24-INCH (25' SPACING, WHITE)
8. MARKING STOP LINE EPOXY 18-INCH (WHITE)

⊥/⊥ SINGLE / DOUBLE DELINEATOR W/ STEEL POST

PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 81	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 13
PLOT DATE : 9/28/2023 6:36 AM
PLOT BY : DILLINGHAM, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

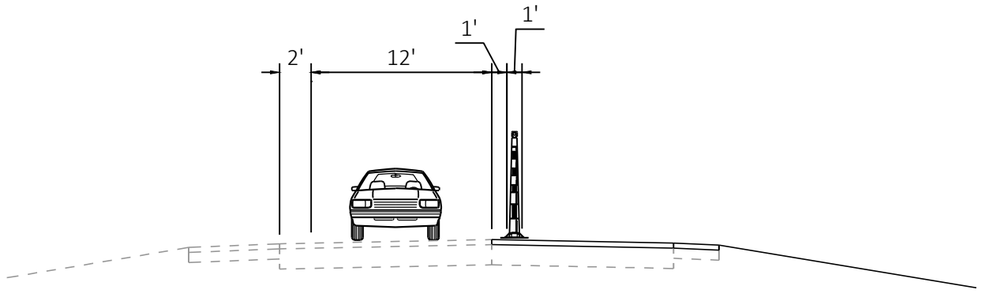
2



EXISTING TRAFFIC CONFIGURATION

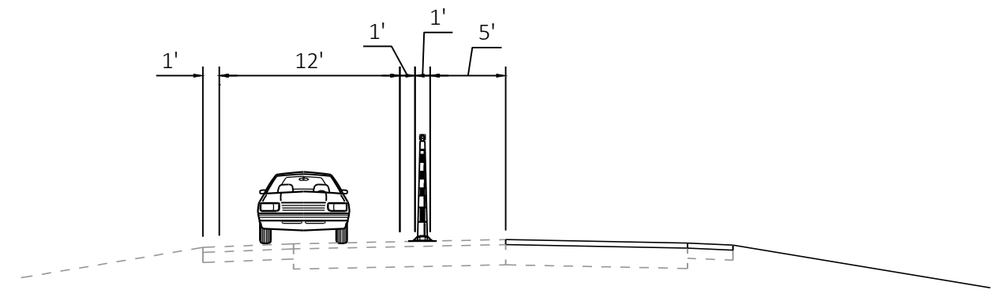
PROJECT NO: 1370-00-74 & 3310-06-70	HWY: STH 16	COUNTY: JEFFERSON & WAUKESHA	TRAFFIC CONTROL	SHEET 82	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\025100-TC.DWG
LAYOUT NAME - 01-10ft
PLOT DATE : 10/2/2023 9:35 AM
PLOT BY : DILLINGHAM, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



TRAFFIC NOT SHIFTED - NO MILLING/PAVING OPERATIONS

CONFIGURATION FOR END OF EACH DAY AND FOR
WHEN PAVING OPERATIONS ARE NOT PRESENT.



TRAFFIC SHIFTED FOR MILLING/PAVING OPERATIONS

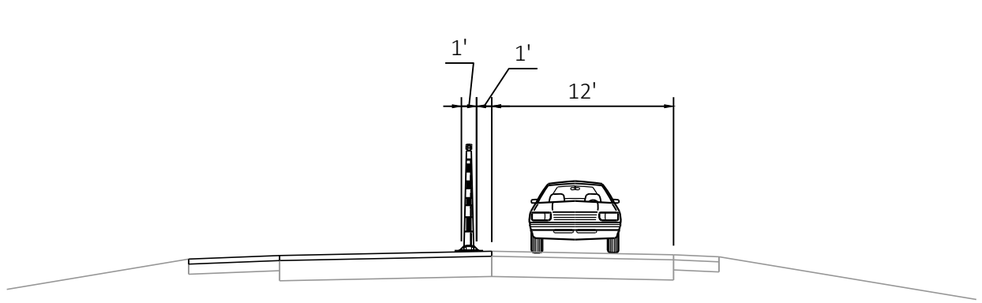
SHIFT TRAFFIC BACK TO EXISTING LANE BY
THE END OF EACH DAY.

STAGE 1

- CLOSE INSIDE LANE
- WIDEN SHOULDER
- INSTALL MGS GUARDRAIL
- REMOVE BULLNOSE GUARDRAIL
- MILL AND PAVE INSIDE LANE AND SHOULDER

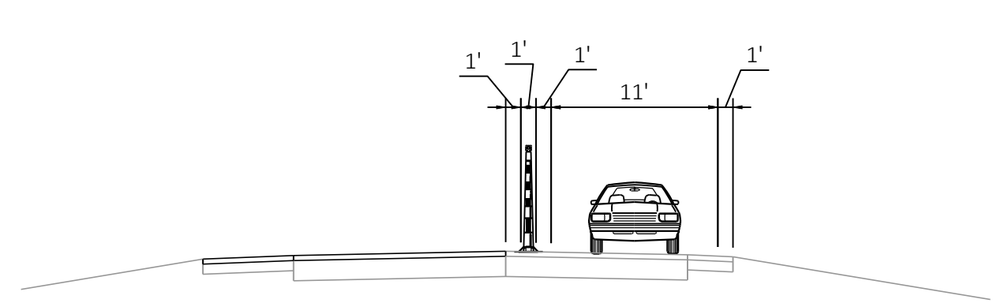
STAGE 4

- INSTALL RUMBLE STRIPS ALONG LANE 1
- FINISH PAVEMENT MARKING



TRAFFIC NOT SHIFTED - NO MILLING/PAVING OPERATIONS

CONFIGURATION FOR END OF EACH DAY AND FOR
WHEN PAVING OPERATIONS ARE NOT PRESENT.



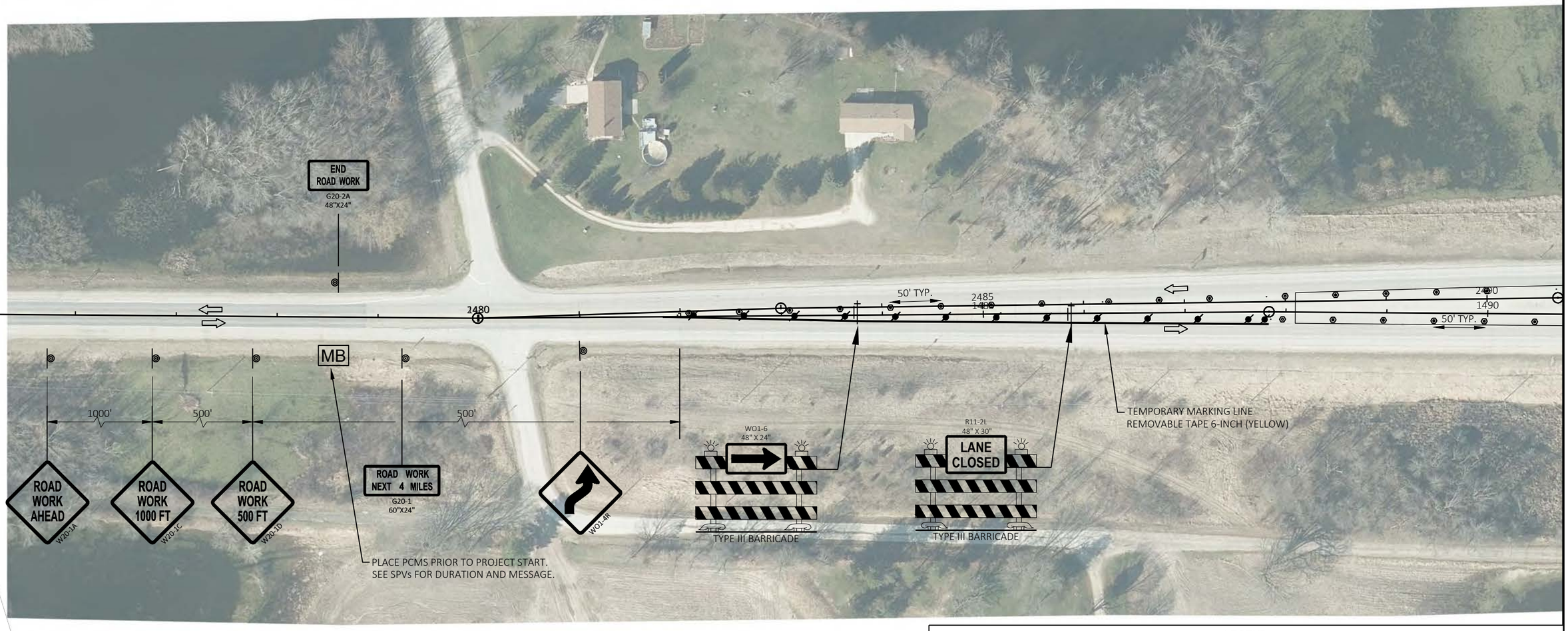
TRAFFIC SHIFTED FOR MILLING/PAVING OPERATIONS

SHIFT TRAFFIC BACK TO EXISTING LANE BY
THE END OF EACH DAY.

STAGE 3

- CLOSE OUTSIDE LANE
- MILL AND PAVE OUTSIDE LANE
- MILL AND PAVE RAMPS
- INSTALL OUTSIDE SHOULDER
  RUMBLE STRIPS
- PAVEMENT MARKING

2



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

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE "A" LIGHTS
- FLEXIBLE TUBULAR MARKER POSTS AND BASES
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL 42-INCH CONE
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	TRAFFIC CONTROL - STAGE 1	SHEET 84	E

2

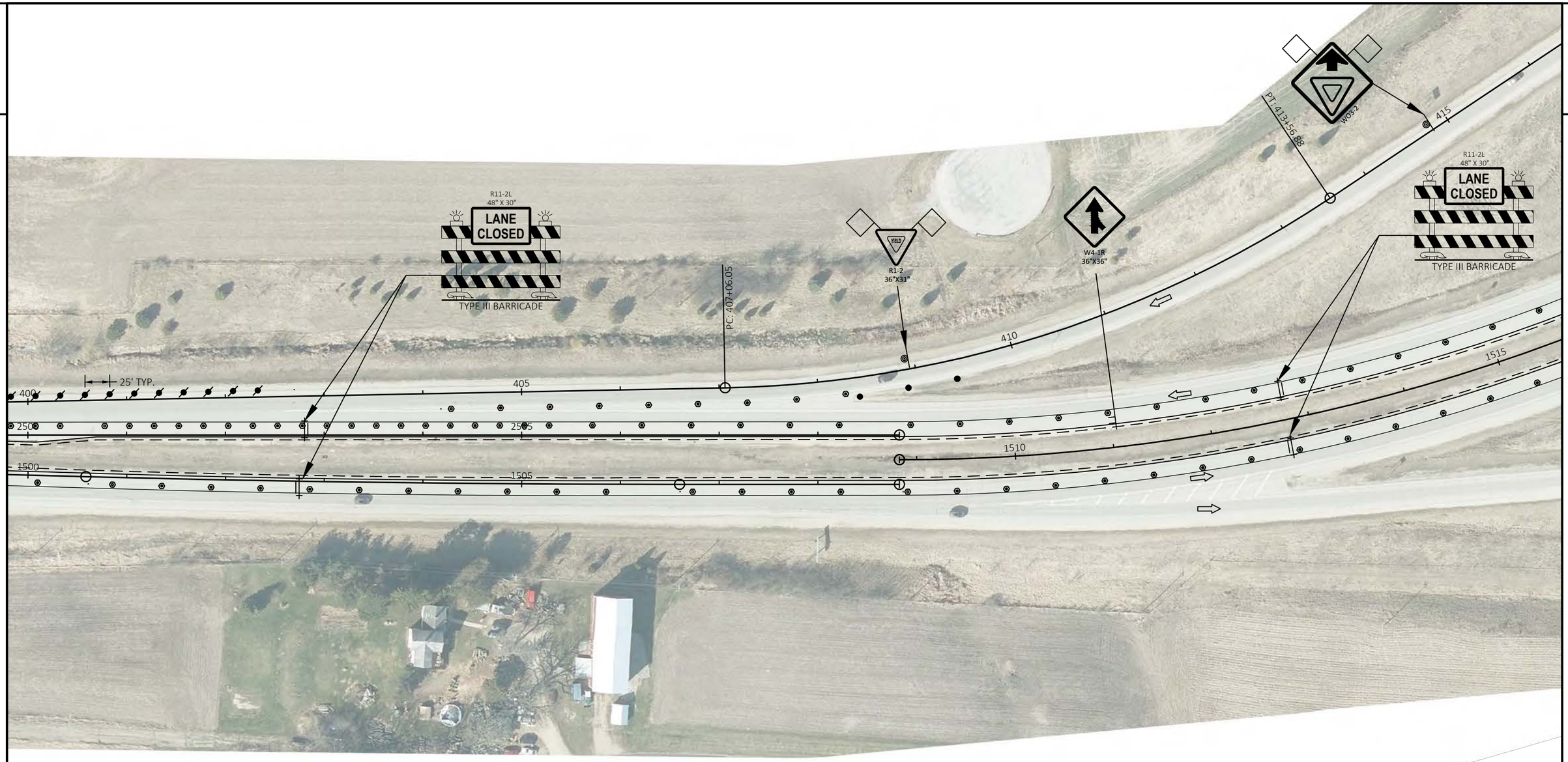


LEGEND

●	TRAFFIC CONTROL DRUM	⊢	SIGN ON TEMPORARY SUPPORT
⊘	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	MB	PORTABLE CHANGEABLE MESSAGE BOARD
‡	TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS	⬡	TRAFFIC CONTROL 42-INCH CONE
‡	TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE "A" LIGHTS		FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
⊙	FLEXIBLE TUBULAR MARKER POSTS AND BASES	⇨	DIRECTION OF TRAFFIC
⊢●	SIGN ON PERMANENT SUPPORT		

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	TRAFFIC CONTROL - STAGE 1	SHEET 85	E

2



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

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE "A" LIGHTS
- FLEXIBLE TUBULAR MARKER POSTS AND BASES
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL 42-INCH CONE
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC

PROJECT NO: 3310-00-74	HWY: STH 16	COUNTY: JEFFERSON	TRAFFIC CONTROL - STAGE 1	SHEET 86	E

2

PLACE PCMS PRIOR TO PROJECT START.
SEE SPVs FOR DURATION AND MESSAGE.

ROAD WORK AHEAD
W20-1A

PT: 413+56.88

W3-2
36"X36"

415

MB

500'

420

EP: 420+49.08

END ROAD WORK
G20-2A
48"X24"

R11-2L
48" X 30"

LANE CLOSED

TYPE III BARRICADE

1515

1520

1525

PC: 526+09.43

525

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

END ROAD WORK
G20-2A
48"X24"

BP: 520+43.15

PC: 521+55.50

MB

ROAD WORK AHEAD
W20-1A

500'

PLACE PCMS PRIOR TO PROJECT START.
SEE SPVs FOR DURATION AND MESSAGE.

W03-2

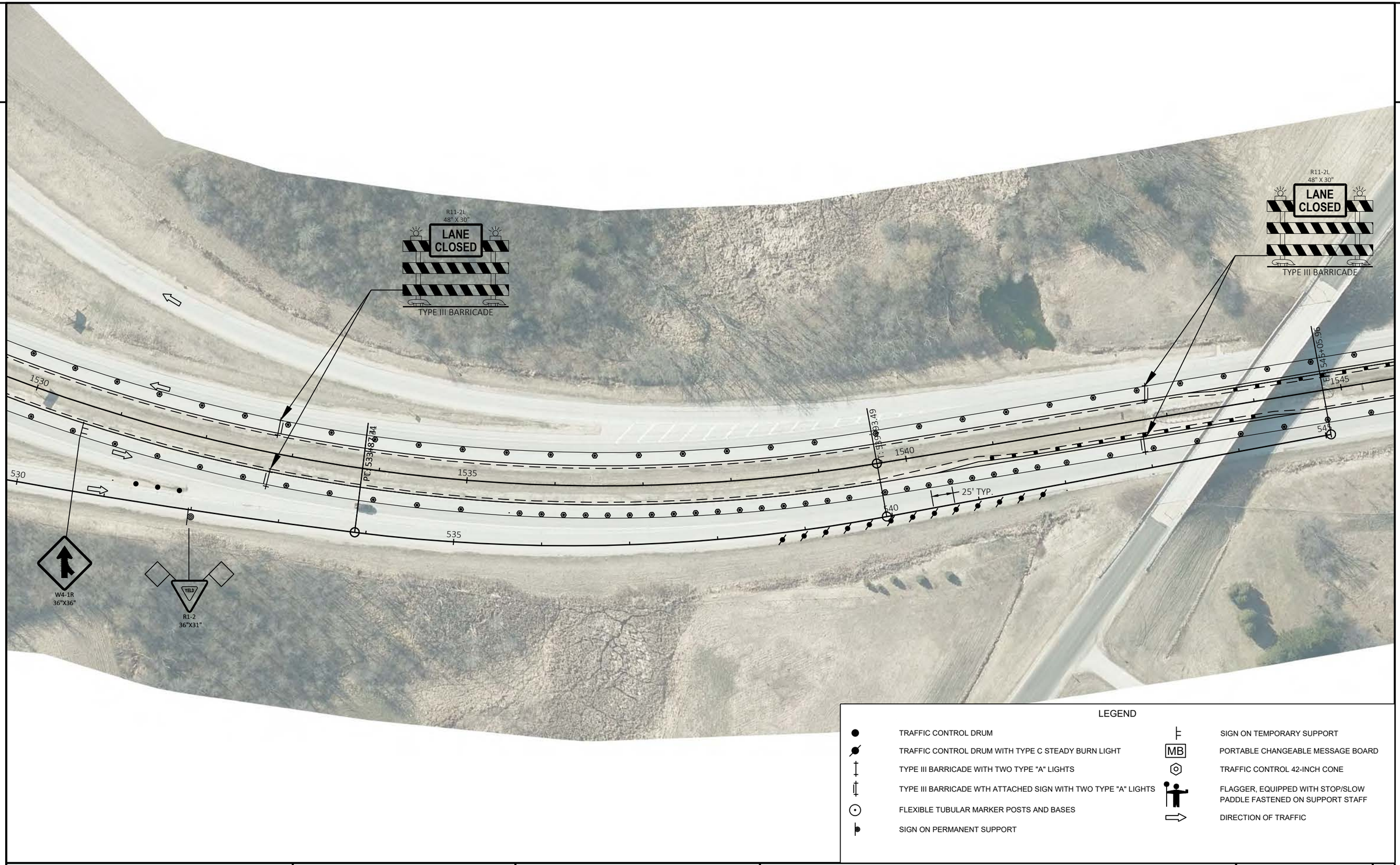
LEGEND

●	TRAFFIC CONTROL DRUM	⊢	SIGN ON TEMPORARY SUPPORT
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	MB	PORTABLE CHANGEABLE MESSAGE BOARD
⊢	TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS	⬡	TRAFFIC CONTROL 42-INCH CONE
⊢	TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE "A" LIGHTS		FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
⊙	FLEXIBLE TUBULAR MARKER POSTS AND BASES	⇨	DIRECTION OF TRAFFIC
●	SIGN ON PERMANENT SUPPORT		

2

PROJECT NO: 3310-00-74	HWY: STH 16	COUNTY: JEFFERSON	TRAFFIC CONTROL - STAGE 1	SHEET 87	E

2

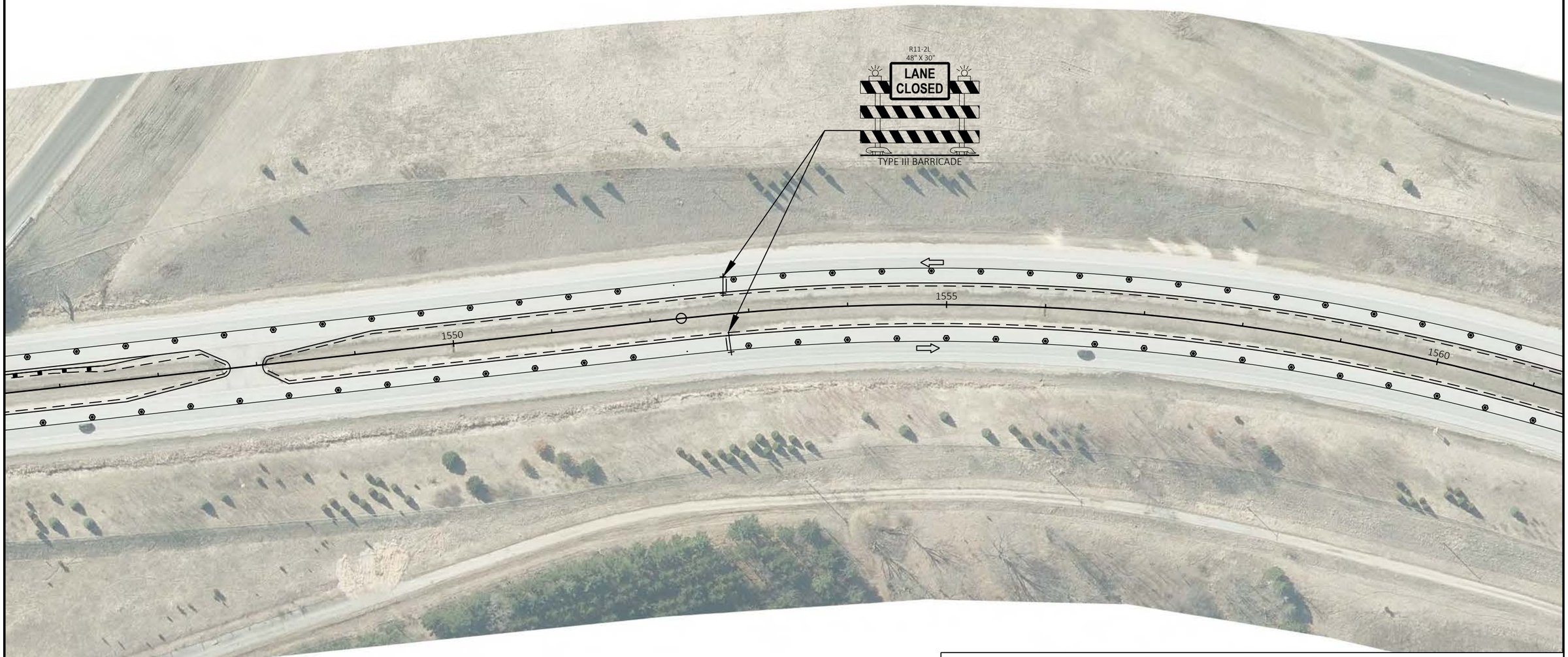


LEGEND

TRAFFIC CONTROL DRUM	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	PORTABLE CHANGEABLE MESSAGE BOARD
TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS	TRAFFIC CONTROL 42-INCH CONE
TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE "A" LIGHTS	FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
FLEXIBLE TUBULAR MARKER POSTS AND BASES	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	

PROJECT NO: 3310-00-74	HWY: STH 16	COUNTY: JEFFERSON	TRAFFIC CONTROL - STAGE 1	SHEET 88	E

2



LEGEND

●	TRAFFIC CONTROL DRUM	⊢	SIGN ON TEMPORARY SUPPORT
⊘	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	MB	PORTABLE CHANGEABLE MESSAGE BOARD
‡	TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS	⬡	TRAFFIC CONTROL 42-INCH CONE
‡	TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE "A" LIGHTS		FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
⊙	FLEXIBLE TUBULAR MARKER POSTS AND BASES	⇨	DIRECTION OF TRAFFIC
⊢	SIGN ON PERMANENT SUPPORT		

PROJECT NO: 3310-00-74	HWY: STH 16	COUNTY: JEFFERSON	TRAFFIC CONTROL - STAGE 1	SHEET 89	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\026001-S1.DWG
LAYOUT NAME - 06

PLOT DATE : 10/20/2023 7:34 AM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



LEGEND

TRAFFIC CONTROL DRUM	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	PORTABLE CHANGEABLE MESSAGE BOARD
TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS	TRAFFIC CONTROL 42-INCH CONE
TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE "A" LIGHTS	FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
FLEXIBLE TUBULAR MARKER POSTS AND BASES	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	

PROJECT NO: 3310-00-74	HWY: STH 16	COUNTY: JEFFERSON	TRAFFIC CONTROL - STAGE 1	SHEET 90	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\026001-S1.DWG
LAYOUT NAME - 07

PLOT DATE : 10/20/2023 7:34 AM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



2

LEGEND

●	TRAFFIC CONTROL DRUM	⊢	SIGN ON TEMPORARY SUPPORT
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	MB	PORTABLE CHANGEABLE MESSAGE BOARD
⊥	TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS	⬡	TRAFFIC CONTROL 42-INCH CONE
⊥	TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE "A" LIGHTS		FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
⊙	FLEXIBLE TUBULAR MARKER POSTS AND BASES	⇨	DIRECTION OF TRAFFIC
⊢●	SIGN ON PERMANENT SUPPORT		

PROJECT NO: 3310-00-74	HWY: STH 16	COUNTY: JEFFERSON	TRAFFIC CONTROL - STAGE 1	SHEET 91	E

2

2

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

1600

1605

1595

STA 1594+48
END ID 1370-00-74
BEGIN ID 3310-06-70

LEGEND

TRAFFIC CONTROL DRUM	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	PORTABLE CHANGEABLE MESSAGE BOARD
TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS	TRAFFIC CONTROL 42-INCH CONE
TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE "A" LIGHTS	FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
FLEXIBLE TUBULAR MARKER POSTS AND BASES	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	

PROJECT NO: 1370-00-74 & 3310-06-70	HWY: STH 16	COUNTY: JEFFERSON & WAUKESHA	TRAFFIC CONTROL - STAGE 1	SHEET 92	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\026001-S1.DWG
LAYOUT NAME - 09

PLOT DATE : 10/20/2023 7:34 AM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

1610
1615
1620

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE "A" LIGHTS
- FLEXIBLE TUBULAR MARKER POSTS AND BASES
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL 42-INCH CONE
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC

PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1	SHEET 93	E

2

2

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

1625
1630
1635

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE "A" LIGHTS
- FLEXIBLE TUBULAR MARKER POSTS AND BASES
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL 42-INCH CONE
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC

PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1	SHEET 94	E

2

2

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

40 1645 1650 1655

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE "A" LIGHTS
- FLEXIBLE TUBULAR MARKER POSTS AND BASES
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL 42-INCH CONE
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC

PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1	SHEET 95	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\026001-S1.DWG
LAYOUT NAME - 12

PLOT DATE : 10/20/2023 7:34 AM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

R11-2L
48" X 30"

LANE CLOSED

TYPE III BARRICADE

1660

1665

1670

LEGEND

TRAFFIC CONTROL DRUM	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	PORTABLE CHANGEABLE MESSAGE BOARD
TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS	TRAFFIC CONTROL 42-INCH CONE
TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE "A" LIGHTS	FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
FLEXIBLE TUBULAR MARKER POSTS AND BASES	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	

PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1	SHEET 96	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\026001-S1.DWG
LAYOUT NAME - 13

PLOT DATE : 10/20/2023 7:34 AM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

PLACE PCMS PRIOR TO PROJECT START.
SEE SPVs FOR DURATION AND MESSAGE.

MB

1675

1680

1685

END PROJECT
ID 3310-06-70
STA 1678+62

END
ROAD WORK
G20-2A
48"X24"

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE "A" LIGHTS
- FLEXIBLE TUBULAR MARKER POSTS AND BASES
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL 42-INCH CONE
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC

PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1	SHEET 97	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\026001-S1.DWG
LAYOUT NAME - 14

PLOT DATE : 10/20/2023 7:35 AM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

PLACE PCMS PRIOR TO PROJECT START.
SEE SPVs FOR DURATION AND MESSAGE.

MB

ROAD WORK AHEAD
W20-1A

R11-2L
48" X 30"
LANE CLOSED

TYPE III BARRICADE

W03-2

R1-2
36"X31"

W4-1R
36"X36"

TEMPORARY MARKING LINE
REMOVABLE TAPE 6-INCH (YELLOW)

COVER SKIPS WITHIN TAPER WITH TEMPORARY
MARKING REMOVABLE MASK OUT TAPE 8-INCH

1690 1695 1700

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

LEGEND

●	TRAFFIC CONTROL DRUM	⊢	SIGN ON TEMPORARY SUPPORT
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	MB	PORTABLE CHANGEABLE MESSAGE BOARD
	TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS	⬡	TRAFFIC CONTROL 42-INCH CONE
	TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE "A" LIGHTS		FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
⊙	FLEXIBLE TUBULAR MARKER POSTS AND BASES	⇨	DIRECTION OF TRAFFIC
	SIGN ON PERMANENT SUPPORT		

PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1	SHEET 98	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\026001-S1.DWG
LAYOUT NAME - 15

PLOT DATE : 10/20/2023 7:35 AM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

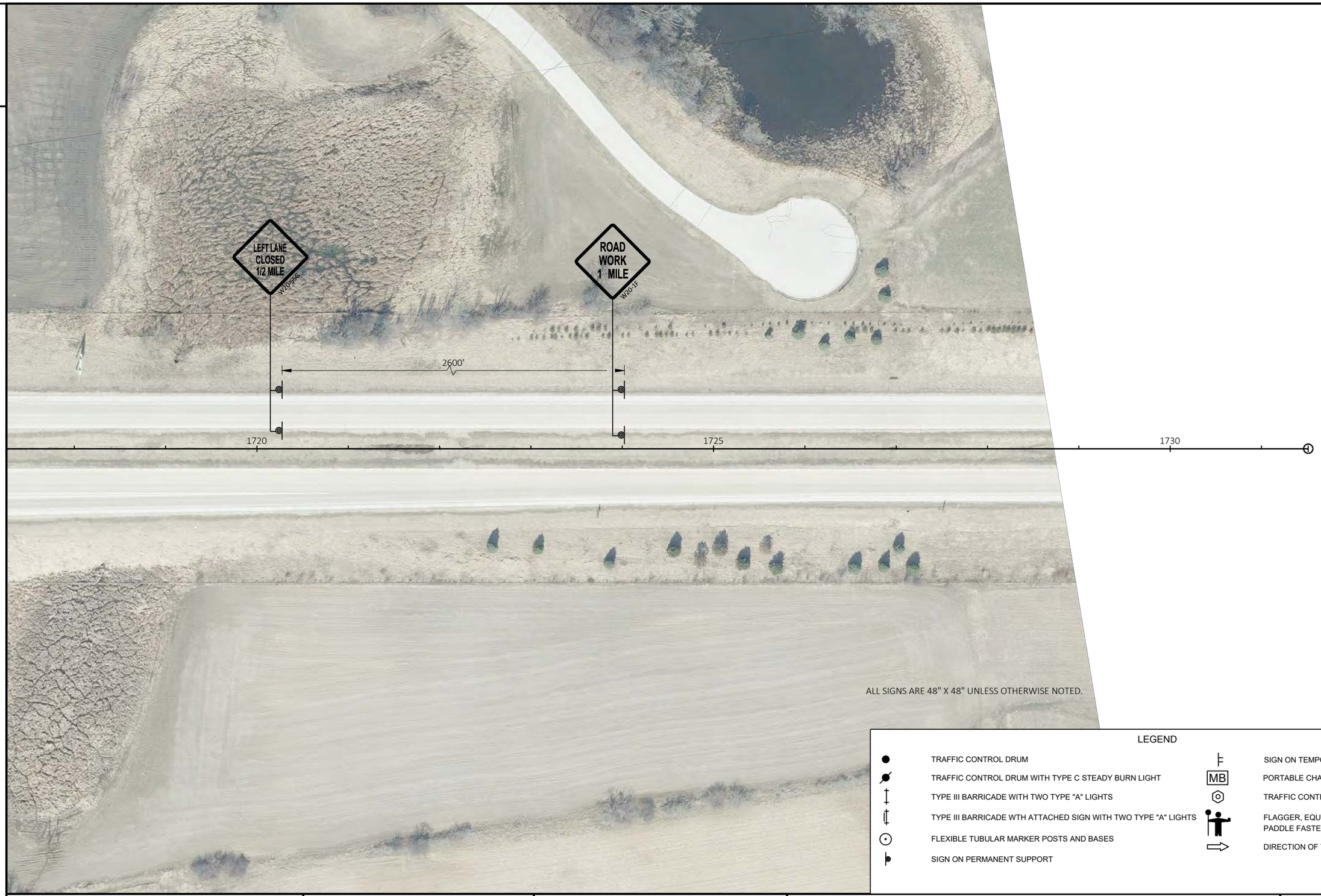
WISDOT/CADDS SHEET 42

2



PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1	SHEET 99	E

2



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

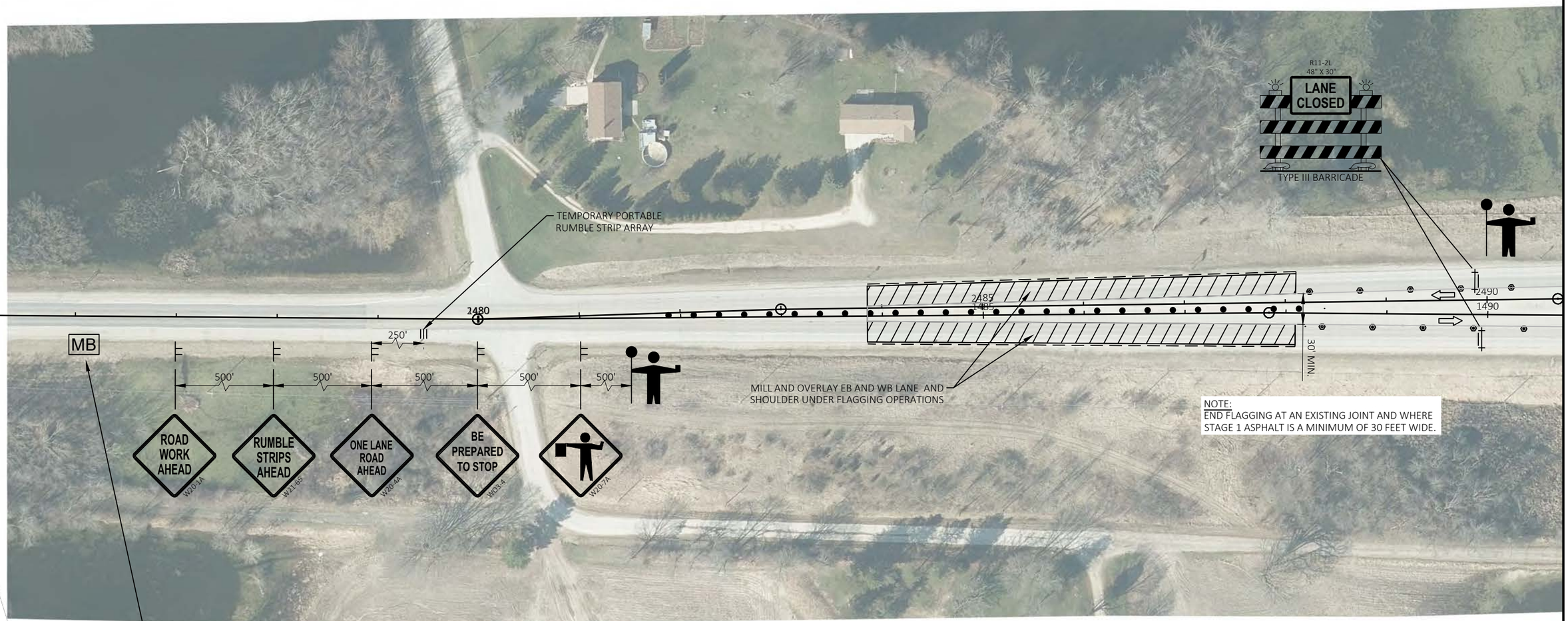
LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE "A" LIGHTS
- FLEXIBLE TUBULAR MARKER POSTS AND BASES
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- PORTABLE CHANGEABLE MESSAGE BOARD (MB)
- TRAFFIC CONTROL 42-INCH CONE
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC

PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1	SHEET 100	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\026001-S1.DWG
LAYOUT NAME - 17
PLOT DATE : 10/20/2023 7:35 AM
PLOT BY : DILLINGHAM, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2



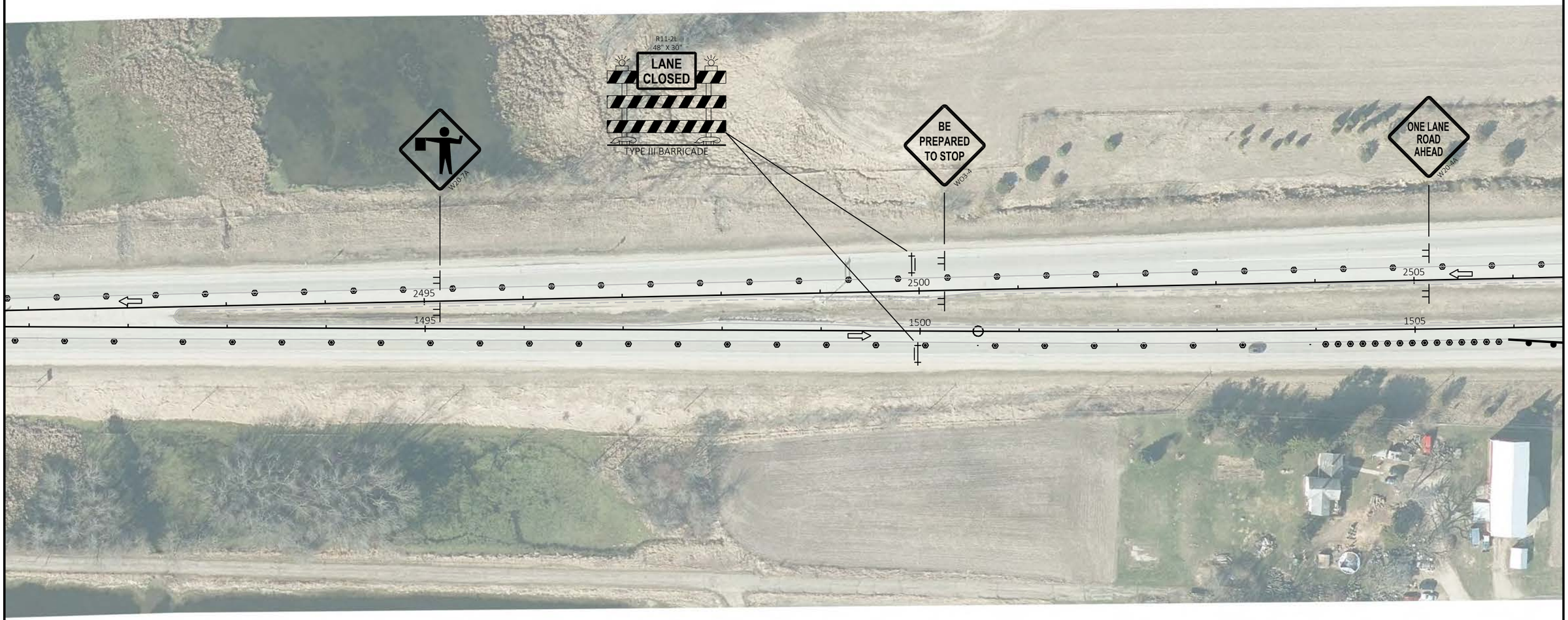
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE "A" LIGHTS
- FLEXIBLE TUBULAR MARKER POSTS AND BASES
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL 42-INCH CONE
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	TRAFFIC CONTROL - STAGE 2	SHEET 101	E

2



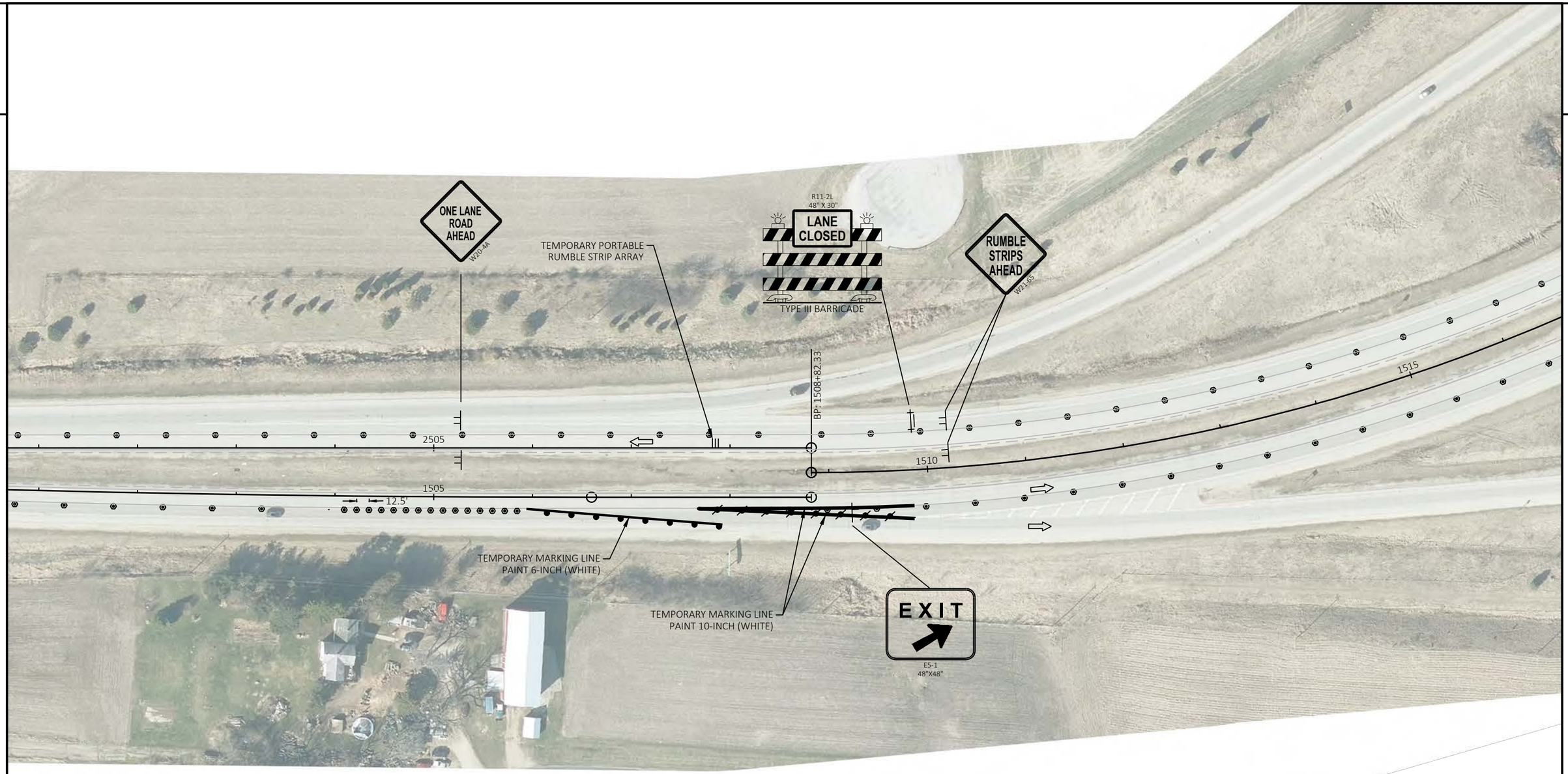
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE "A" LIGHTS
- FLEXIBLE TUBULAR MARKER POSTS AND BASES
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL 42-INCH CONE
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	TRAFFIC CONTROL - STAGE 2	SHEET 102	E

2



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

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE "A" LIGHTS
- FLEXIBLE TUBULAR MARKER POSTS AND BASES
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL 42-INCH CONE
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	TRAFFIC CONTROL - STAGE 2	SHEET 103	E

2

FRAME 1	FRAME 2
RAMP TO CLOSE	<DATES> <TIMES>

PLACE PCMS SEVEN DAYS PRIOR TO BEGINNING STAGE 2.

NOTE:
WARNING SIGNS FOR THE RAMP CLOSURE SHOWN ON THIS SHEET ARE IN ADDITION TO THE ADVANCED WARNING SIGNS SHOWN IN STAGE 3.

MB

R3-1
24"X24"

WEST
16
M3-4
24"X12"
M1-6
24"X24"

RAMP CLOSED AHEAD
W20-53A

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2R
48" X 30"
RAMP CLOSED
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

CONTINUE TRAFFIC CONTROL AS SHOWN IN STAGE 3

1515
1520
1525
1530

WISCONSIN AVE

R3-2
24"X24"

WEST
16
M3-4
24"X12"
M1-6
24"X24"

RAMP CLOSED AHEAD
W20-53A

NOTE:
WARNING SIGNS FOR THE RAMP CLOSURE SHOWN ON THIS SHEET ARE IN ADDITION TO THE ADVANCED WARNING SIGNS SHOWN IN STAGE 3.

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

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	TRAFFIC CONTROL - STAGE 2	SHEET 104	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\026001-S2.DWG
LAYOUT NAME - 04
PLOT DATE : 10/20/2023 7:46 AM
PLOT BY : DILLINGHAM, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

N

END
ROAD WORK
G20-2A
48"X24"

TEMPORARY MARKING LINE
REMOVABLE TAPE 6-INCH
(DOUBLE YELLOW)

TEMPORARY MARKING LINE
REMOVABLE TAPE 6-INCH
(WHITE)

STA 1479+60
1.2' LT

1480

1000'

500'

ROAD
WORK
AHEAD
W20-1A

RIGHT LANE
CLOSED
AHEAD
W20-5A

W04-2R

MB

PLACE PRIOR TO START OF STAGE 3.
SEE SPVs FOR DURATION AND MESSAGE.

ROAD WORK
NEXT 4 MILES
G20-1
60"X24"

REMOVE EXISTING YELLOW MARKING
FROM STA 1479+60 TO 1482+00.

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

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE "A" LIGHTS
- FLEXIBLE TUBULAR MARKER POSTS AND BASES
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL 42-INCH CONE
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	TRAFFIC CONTROL - STAGE 3	SHEET 105	E

2

2

N

TEMPORARY MARKING LINE
REMOVABLE TAPE 6-INCH
(WHITE)

TEMPORARY MARKING LINE
REMOVABLE TAPE 6-INCH
(DOUBLE YELLOW)

STA 1488+10
4.4' LT

2485

WO1-6
48" X 24"

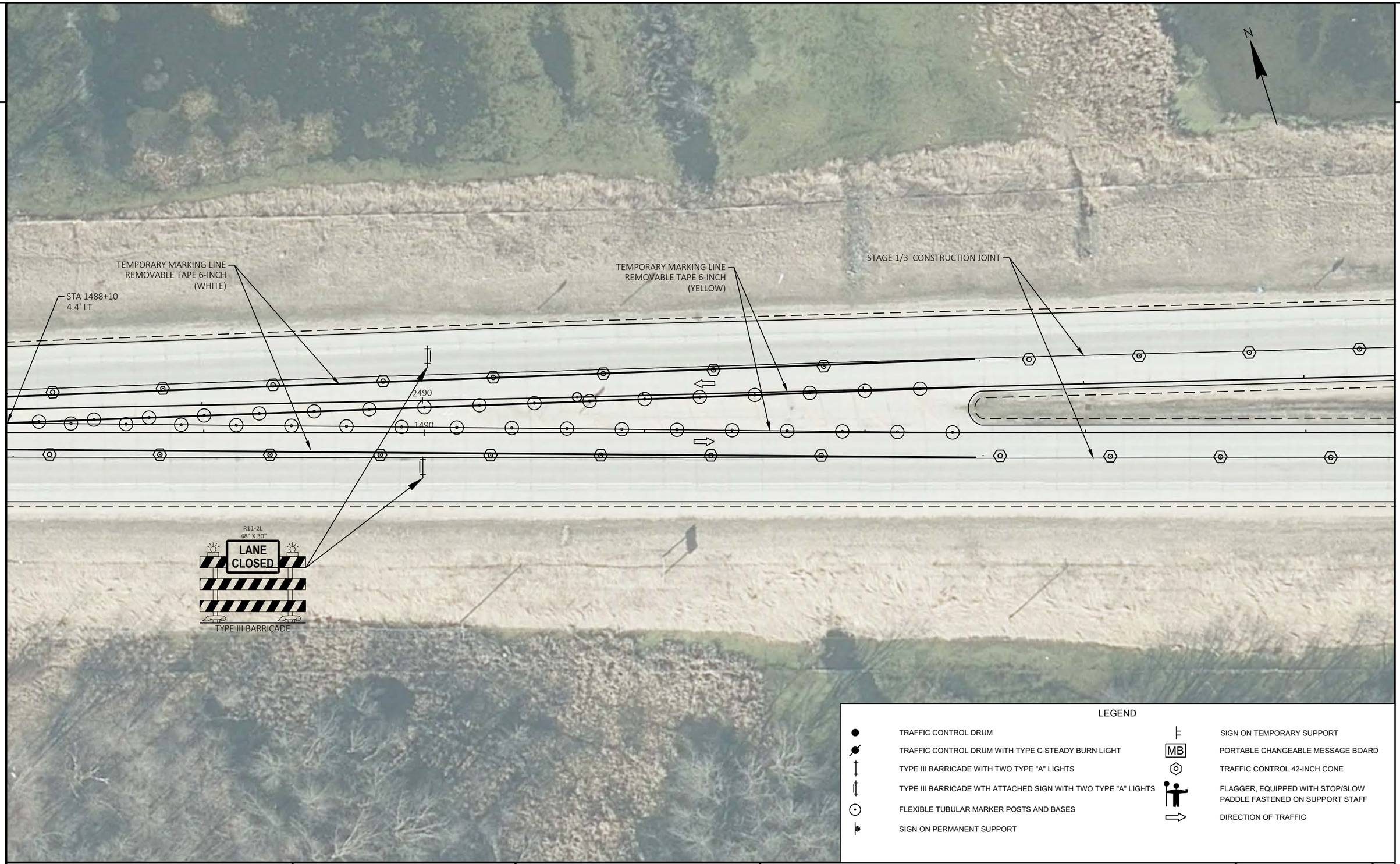
TYPE III BARRICADE

LEGEND

TRAFFIC CONTROL DRUM	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	PORTABLE CHANGEABLE MESSAGE BOARD
TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS	TRAFFIC CONTROL 42-INCH CONE
TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE "A" LIGHTS	FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
FLEXIBLE TUBULAR MARKER POSTS AND BASES	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	TRAFFIC CONTROL - STAGE 3	SHEET 106	E

2



LEGEND

TRAFFIC CONTROL DRUM	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	PORTABLE CHANGEABLE MESSAGE BOARD
TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS	TRAFFIC CONTROL 42-INCH CONE
TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE "A" LIGHTS	FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
FLEXIBLE TUBULAR MARKER POSTS AND BASES	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	TRAFFIC CONTROL - STAGE 3	SHEET 107	E

2



LEGEND

TRAFFIC CONTROL DRUM	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	PORTABLE CHANGEABLE MESSAGE BOARD
TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS	TRAFFIC CONTROL 42-INCH CONE
TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE "A" LIGHTS	FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
FLEXIBLE TUBULAR MARKER POSTS AND BASES	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	TRAFFIC CONTROL - STAGE 3	SHEET 108	E

2

2

N

TEMPORARY MARKING LINE
PAINT 6-INCH (WHITE)

R1-2

TEMPORARY MARKING LINE
PAINT 10-INCH (WHITE)

TEMPORARY MARKING LINE
PAINT 6-INCH (YELLOW)

W03-2

R11-2L
48" X 30"
LANE
CLOSED

TYPE III BARRICADE

100'

2505

1505

1510

1515

TEMPORARY MARKING LINE
PAINT 6-INCH (WHITE)

TEMPORARY MARKING LINE
PAINT 10-INCH (WHITE)

EXIT

E5-1

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

LEGEND

●	TRAFFIC CONTROL DRUM	⊢	SIGN ON TEMPORARY SUPPORT
◉	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	MB	PORTABLE CHANGEABLE MESSAGE BOARD
‡	TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS	⬡	TRAFFIC CONTROL 42-INCH CONE
‡	TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE "A" LIGHTS		FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
⊙	FLEXIBLE TUBULAR MARKER POSTS AND BASES	⇨	DIRECTION OF TRAFFIC
⊢●	SIGN ON PERMANENT SUPPORT		

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	TRAFFIC CONTROL - STAGE 3	SHEET 109	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\026001-S3.DWG
LAYOUT NAME - 05

PLOT DATE : 10/20/2023 7:51 AM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

PLACE PRIOR TO START OF STAGE 3.
SEE SPVs FOR DURATION AND MESSAGE.

W3-2
36"X36"

ROAD WORK AHEAD
W20-1A

500'

MB

END ROAD WORK
G20-2A
48"X24"

N

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

1515

1520

1525

1530

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

W03-2

PLACE PRIOR TO START OF STAGE 3.
SEE SPVs FOR DURATION AND MESSAGE.

ROAD WORK AHEAD
W20-1A

MB

500'

END ROAD WORK
G20-2A
48"X24"

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

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE "A" LIGHTS
- FLEXIBLE TUBULAR MARKER POSTS AND BASES
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL 42-INCH CONE
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	TRAFFIC CONTROL - STAGE 3	SHEET 110	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\026001-S3.DWG
LAYOUT NAME - 06
PLOT DATE : 10/20/2023 7:52 AM
PLOT BY : DILLINGHAM, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

N

TEMPORARY MARKING LINE
PAINT 10-INCH (WHITE)

TEMPORARY MARKING LINE
PAINT 6-INCH (WHITE)

EXIT

E5-1

1535

1540

1545

R11-2L
48" X 30"

LANE
CLOSED

TYPE III BARRICADE

TEMPORARY MARKING LINE
PAINT 6-INCH (WHITE)

TEMPORARY MARKING LINE
PAINT 6-INCH (YELLOW)

YIELD

R1-2

W03-2

TEMPORARY MARKING LINE
PAINT 10-INCH (WHITE)

LEGEND

TRAFFIC CONTROL DRUM	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	MB — PORTABLE CHANGEABLE MESSAGE BOARD
TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS	TRAFFIC CONTROL 42-INCH CONE
TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE "A" LIGHTS	FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
FLEXIBLE TUBULAR MARKER POSTS AND BASES	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	

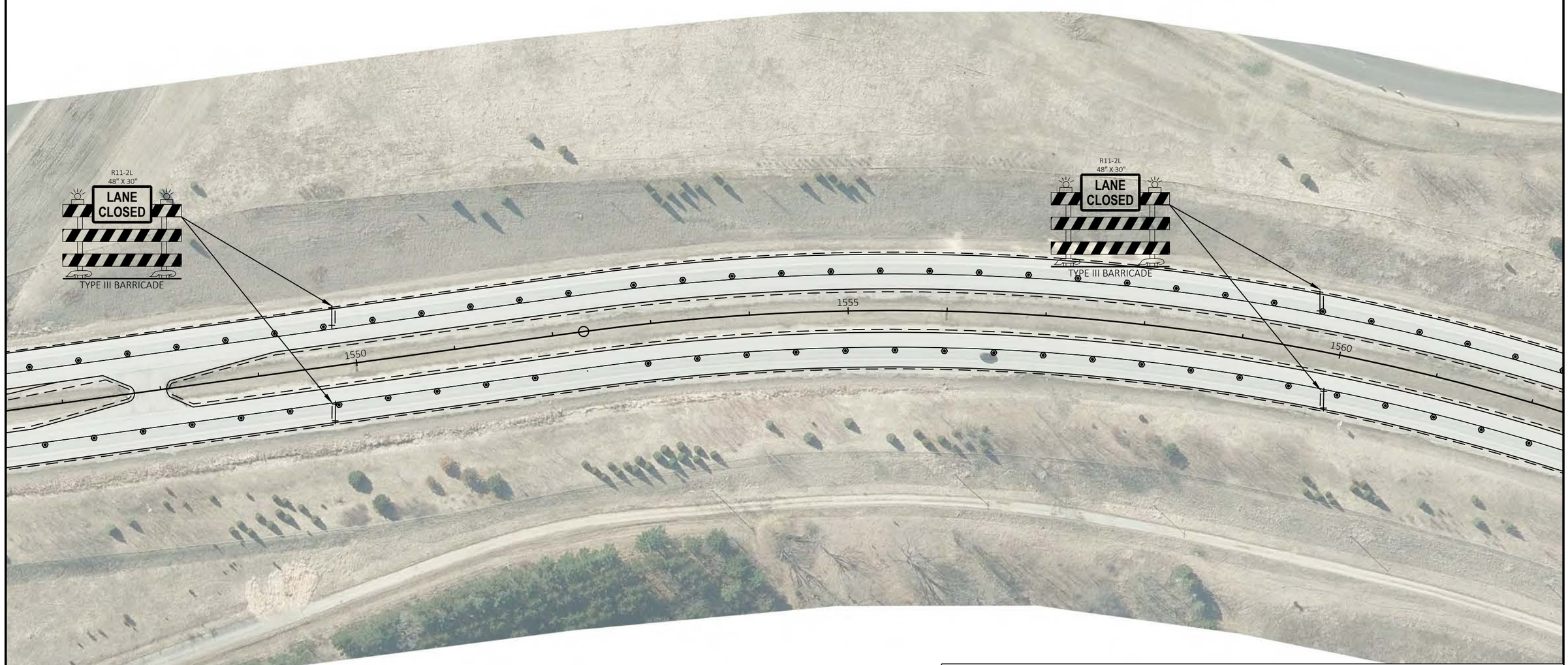
PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	TRAFFIC CONTROL - STAGE 3	SHEET 111	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\026001-S3.DWG
LAYOUT NAME - 07

PLOT DATE : 10/20/2023 7:52 AM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



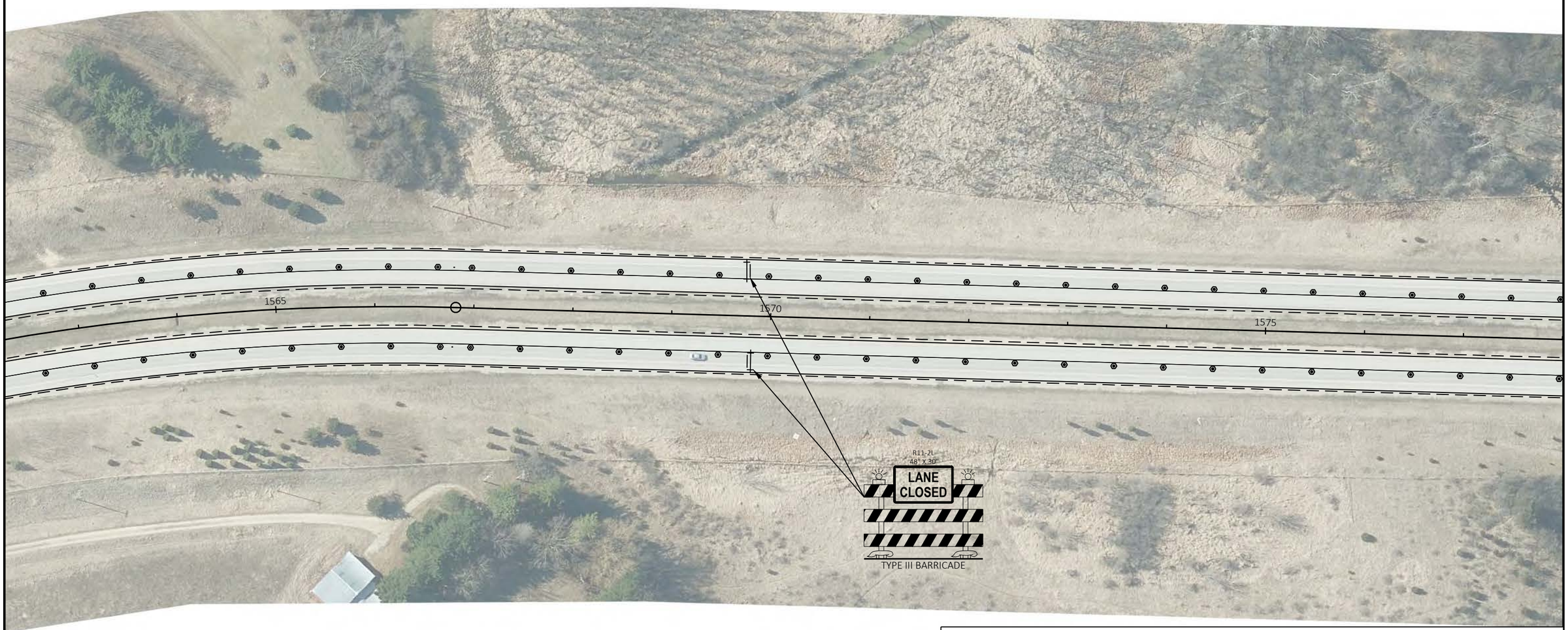
LEGEND

●	TRAFFIC CONTROL DRUM	⊢	SIGN ON TEMPORARY SUPPORT
◕	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	MB	PORTABLE CHANGEABLE MESSAGE BOARD
⎸	TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS	⬡	TRAFFIC CONTROL 42-INCH CONE
⎸⎸	TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE "A" LIGHTS		FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
⊙	FLEXIBLE TUBULAR MARKER POSTS AND BASES	⇨	DIRECTION OF TRAFFIC
⊢●	SIGN ON PERMANENT SUPPORT		

PROJECT NO: 3310-00-74	HWY: STH 16	COUNTY: JEFFERSON	TRAFFIC CONTROL - STAGE 3	SHEET 112	E

2

2

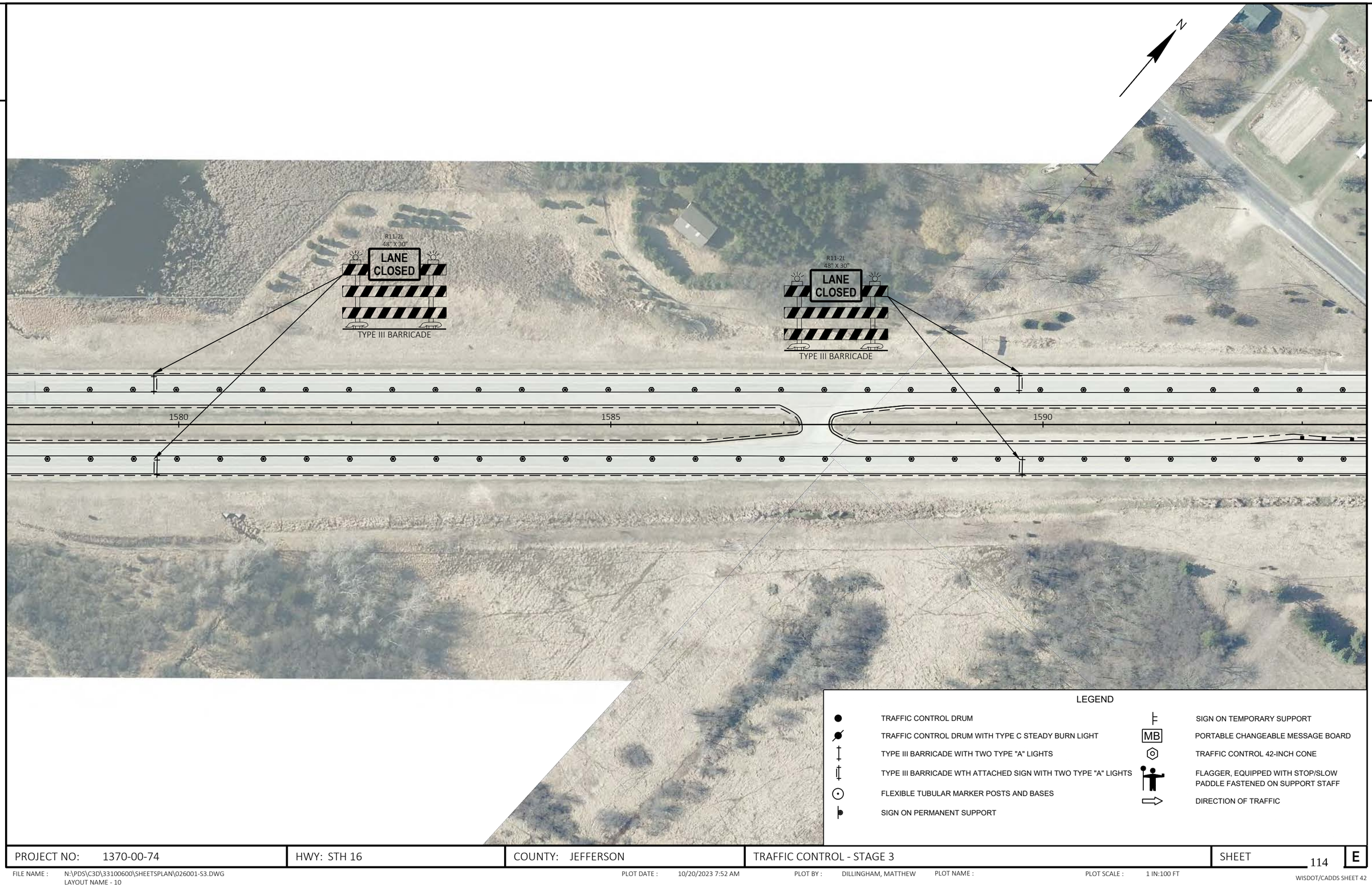


LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE "A" LIGHTS
- FLEXIBLE TUBULAR MARKER POSTS AND BASES
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL 42-INCH CONE
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	TRAFFIC CONTROL - STAGE 3	SHEET 113	E

2



2

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	TRAFFIC CONTROL - STAGE 3	SHEET 114	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\026001-S3.DWG
LAYOUT NAME - 10
PLOT DATE : 10/20/2023 7:52 AM
PLOT BY : DILLINGHAM, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

1595
1600
1605

STA 1594+48
END ID 1370-00-74
BEGIN ID 3310-06-70

LEGEND

TRAFFIC CONTROL DRUM	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	PORTABLE CHANGEABLE MESSAGE BOARD
TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS	TRAFFIC CONTROL 42-INCH CONE
TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE "A" LIGHTS	FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
FLEXIBLE TUBULAR MARKER POSTS AND BASES	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	

PROJECT NO: 1370-00-74 & 3310-06-70	HWY: STH 16	COUNTY: JEFFERSON & WAUKESHA	TRAFFIC CONTROL - STAGE 3	SHEET 115	E

2

2

N

R11-2L
48" X 30"

LANE CLOSED

TYPE III BARRICADE

1610

1615

1620

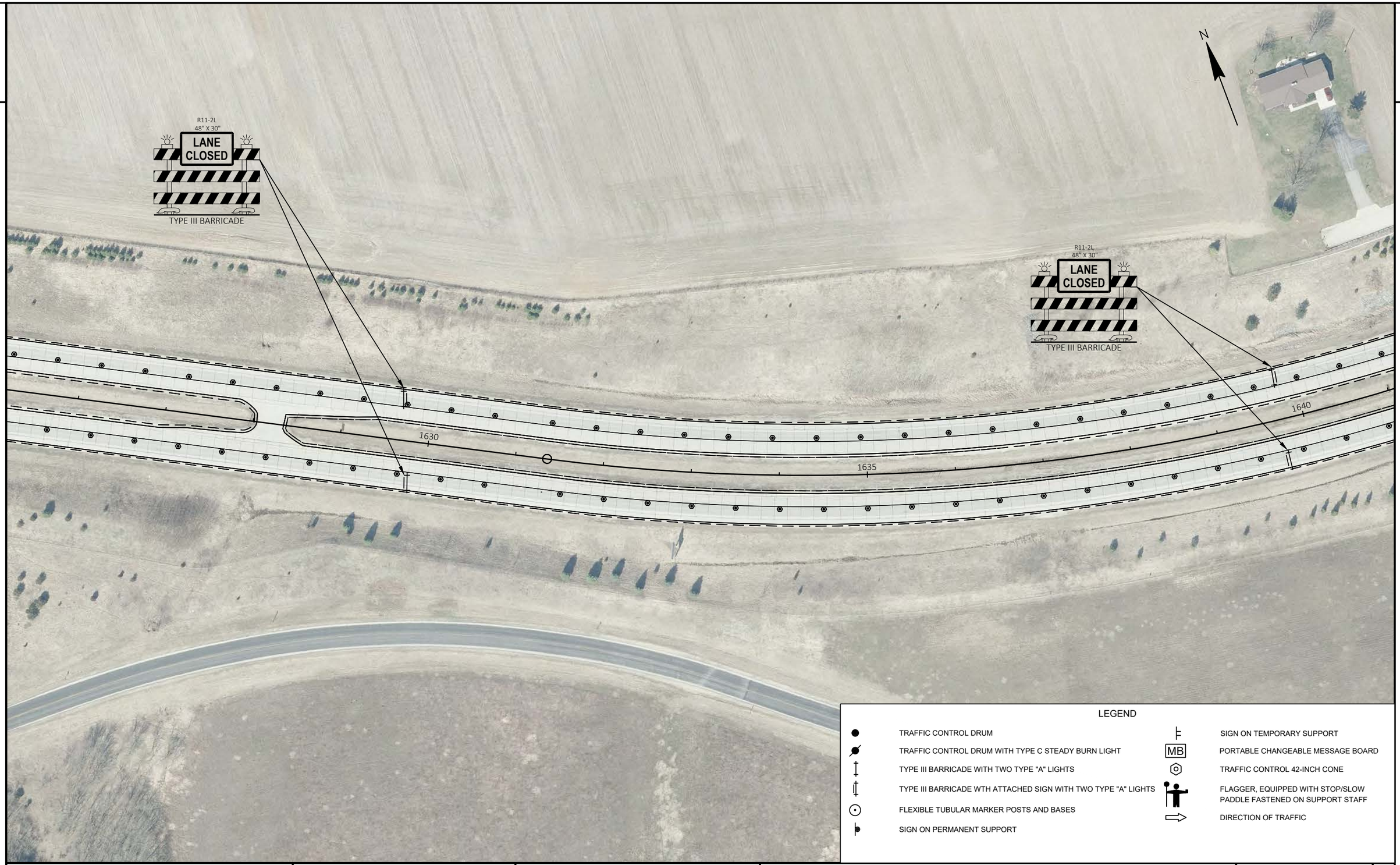
1625

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE "A" LIGHTS
- FLEXIBLE TUBULAR MARKER POSTS AND BASES
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL 42-INCH CONE
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC

PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 3	SHEET 116	E

2



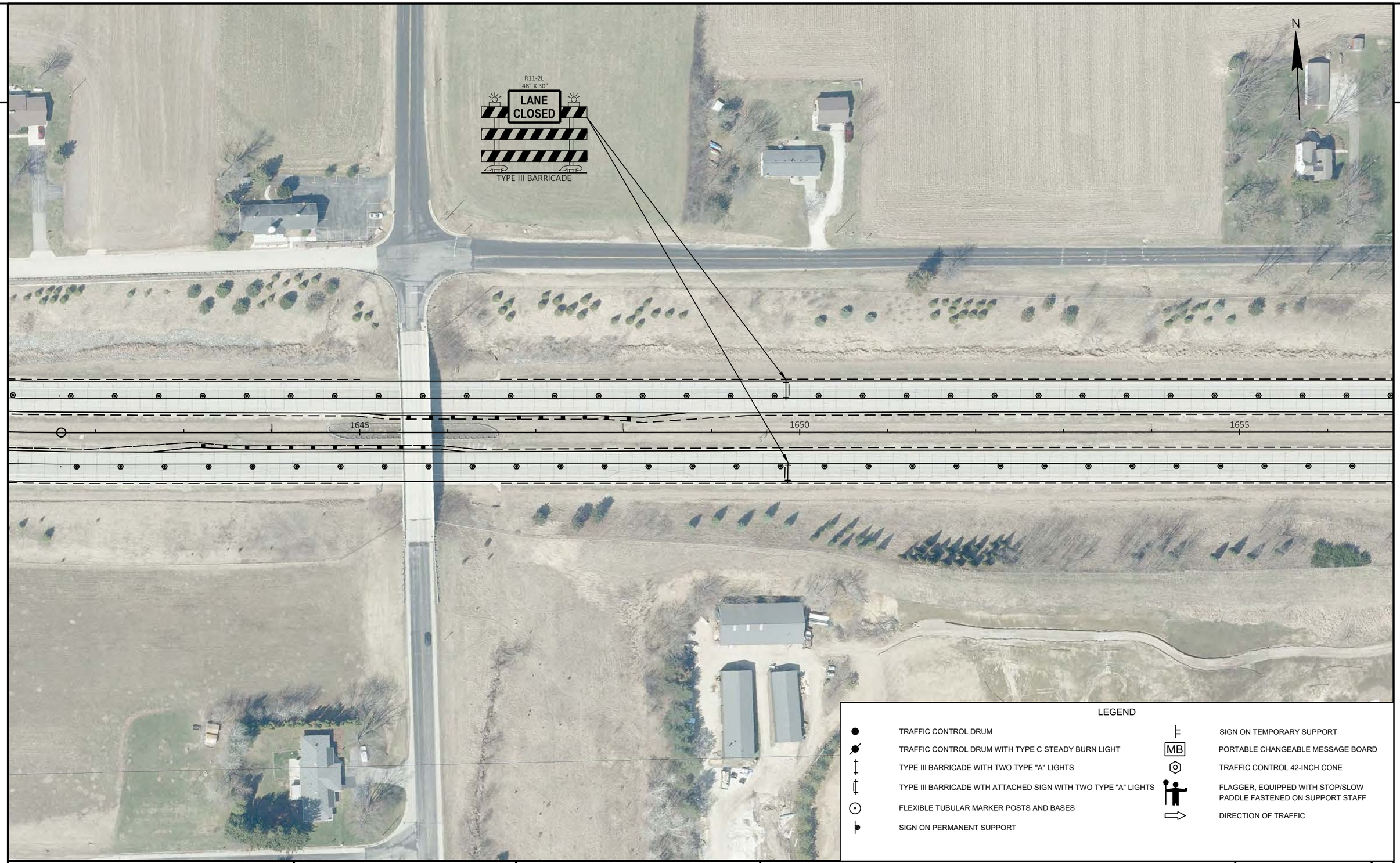
LEGEND

TRAFFIC CONTROL DRUM	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	PORTABLE CHANGEABLE MESSAGE BOARD
TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS	TRAFFIC CONTROL 42-INCH CONE
TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE "A" LIGHTS	FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
FLEXIBLE TUBULAR MARKER POSTS AND BASES	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	

PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 3	SHEET 117	E

2

2



LEGEND

●	TRAFFIC CONTROL DRUM	⊢	SIGN ON TEMPORARY SUPPORT
◉	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	MB	PORTABLE CHANGEABLE MESSAGE BOARD
⊥	TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS	⬡	TRAFFIC CONTROL 42-INCH CONE
⊥	TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE "A" LIGHTS		FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
⊙	FLEXIBLE TUBULAR MARKER POSTS AND BASES	⇨	DIRECTION OF TRAFFIC
⊢●	SIGN ON PERMANENT SUPPORT		

PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 3	SHEET 118	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\026001-S3.DWG
LAYOUT NAME - 14

PLOT DATE : 10/20/2023 7:52 AM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

1660

1665

1670

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE "A" LIGHTS
- FLEXIBLE TUBULAR MARKER POSTS AND BASES
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL 42-INCH CONE
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC

PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 3	SHEET 119	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\026001-S3.DWG
LAYOUT NAME - 15

PLOT DATE : 10/20/2023 7:52 AM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

TEMPORARY MARKING REMOVABLE
MASK OUT TAPE 8-INCH.
USE ON SKIPS WITHIN TAPER

TEMPORARY MARKING LINE
REMOVABLE TAPE 6-INCH (WHITE)

1675

1680

1685

R11-2L
48" X 30"
LANE CLOSED

TYPE III BARRICADE

END
ROAD WORK

G20-2A
48"X24"

LEGEND

TRAFFIC CONTROL DRUM	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	PORTABLE CHANGEABLE MESSAGE BOARD
TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS	TRAFFIC CONTROL 42-INCH CONE
TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE "A" LIGHTS	FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
FLEXIBLE TUBULAR MARKER POSTS AND BASES	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	

PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 3	SHEET 120	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\026001-S3.DWG
LAYOUT NAME - 16

PLOT DATE : 10/20/2023 7:52 AM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

PLACE MESSAGE BOARD 7 DAYS PRIOR TO STAGE
TO INFORM MOTORISTS OF RAMP CLOSURE

MB

SEE CONSTRUCTION DETAIL 'CONNECTED WORK ZONE
NOTIFICATION SYSTEM' FOR EQUIPMENT LOCATIONS

TEMPORARY MARKING REMOVABLE
MASK OUT TAPE 8-INCH.
USE ON SKIPS WITHIN TAPER

TEMPORARY MARKING LINE
REMOVABLE TAPE 6-INCH (WHITE)

R11-2R
48" X 30"
RAMP
CLOSED

TYPE III BARRICADE

67

N

W20-3A

1690

1695

1700

WEST
16
M3-4
24"X12"
M1-6
24"X24"
RAMP
CLOSED
AHEAD
W20-3A

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

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE "A" LIGHTS
- FLEXIBLE TUBULAR MARKER POSTS AND BASES
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL 42-INCH CONE
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC

PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 3	SHEET 121	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\026001-S3.DWG
LAYOUT NAME - 17
PLOT DATE : 10/20/2023 7:53 AM
PLOT BY : DILLINGHAM, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2



PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 3	SHEET 122	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\026001-S3.DWG
LAYOUT NAME - 18
PLOT DATE : 10/20/2023 7:53 AM
PLOT BY : DILLINGHAM, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2



2

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE "A" LIGHTS
- FLEXIBLE TUBULAR MARKER POSTS AND BASES
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL 42-INCH CONE
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC

PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 3	SHEET 123	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\026001-S3.DWG
LAYOUT NAME - 19

PLOT DATE : 10/20/2023 7:53 AM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



2

PROJECT NO: 3310-06-70	HWY: STH 67	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 3 - STH 67 / LAKE RD	SHEET 124	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\026001-S3.DWG
LAYOUT NAME - 20

PLOT DATE : 10/20/2023 7:53 AM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

LAKE RD

16

67

1700

1705

R11-2R
48" X 30"
RAMP CLOSED
TYPE III BARRICADE

R3-1
24"X24"

R3-2
24"X24"

WEST
16
M3-4
24"X12"
M1-6
24"X24"

RAMP CLOSED AHEAD
W20-53A

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

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE "A" LIGHTS
- FLEXIBLE TUBULAR MARKER POSTS AND BASES
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL 42-INCH CONE
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC

PROJECT NO: 3310-06-70	HWY: STH 67	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 3 - STH 67 / LAKE RD	SHEET 125	E

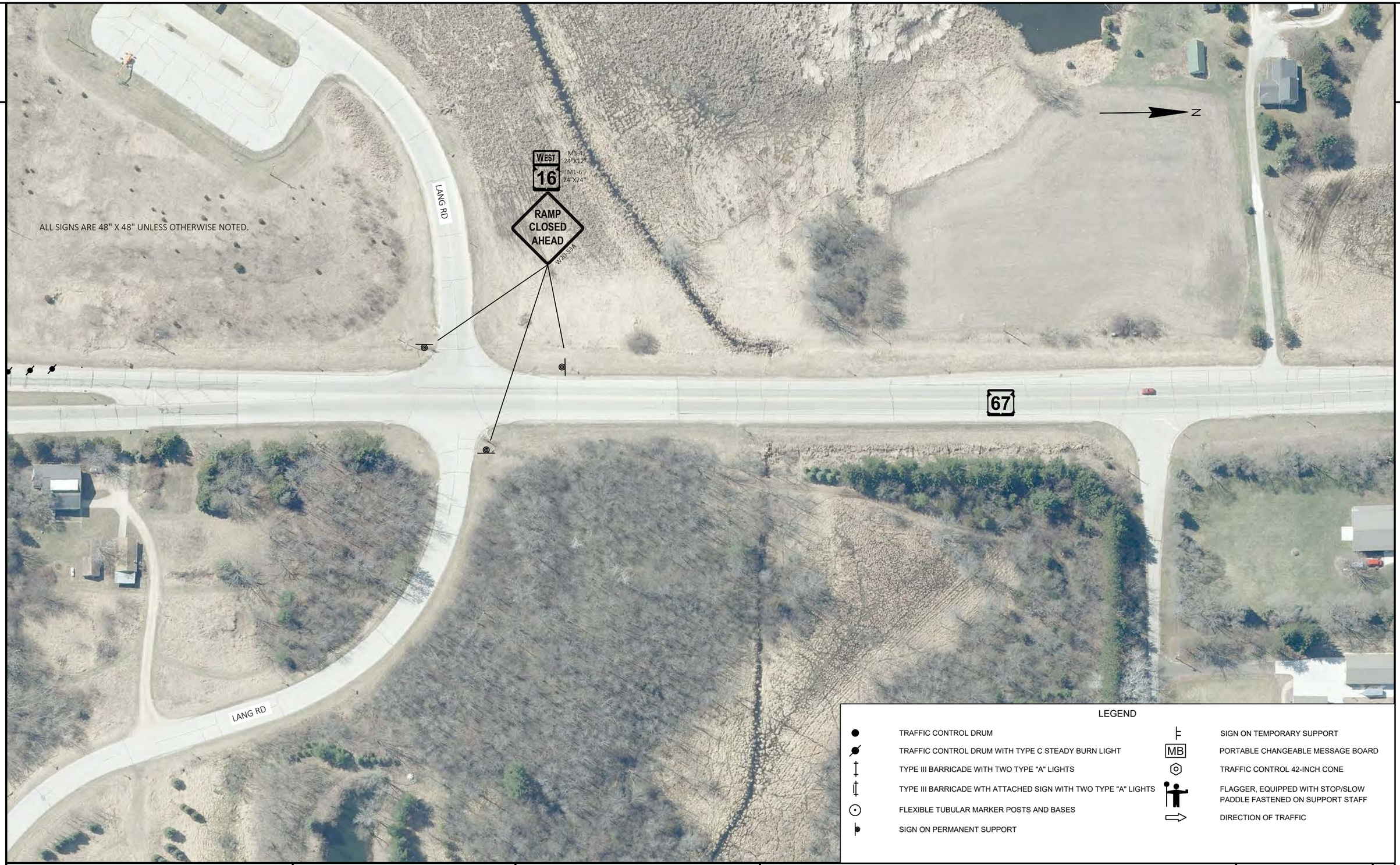
FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\026001-S3.DWG
LAYOUT NAME - 21

PLOT DATE : 10/20/2023 7:53 AM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

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



LEGEND

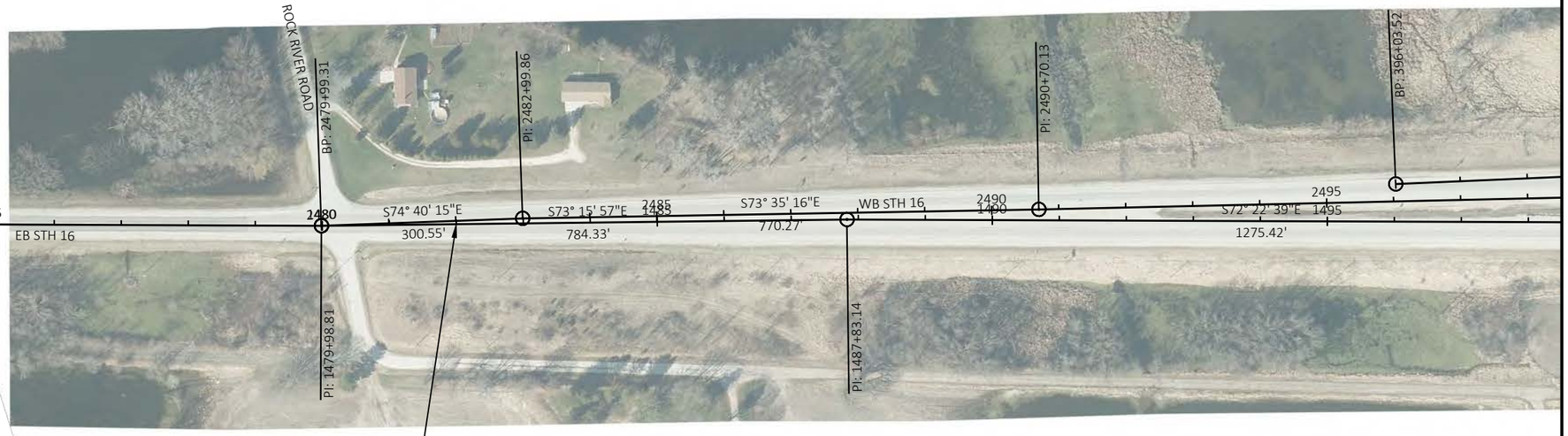
TRAFFIC CONTROL DRUM	SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	PORTABLE CHANGEABLE MESSAGE BOARD
TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS	TRAFFIC CONTROL 42-INCH CONE
TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE "A" LIGHTS	FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
FLEXIBLE TUBULAR MARKER POSTS AND BASES	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	

PROJECT NO: 3310-06-70	HWY: STH 67	COUNTY: WUAKESHA	TRAFFIC CONTROL - STAGE 3 - STH 67 / LAKE RD	SHEET 126	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\026001-S3.DWG
LAYOUT NAME - 22

PLOT DATE : 10/20/2023 7:53 AM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



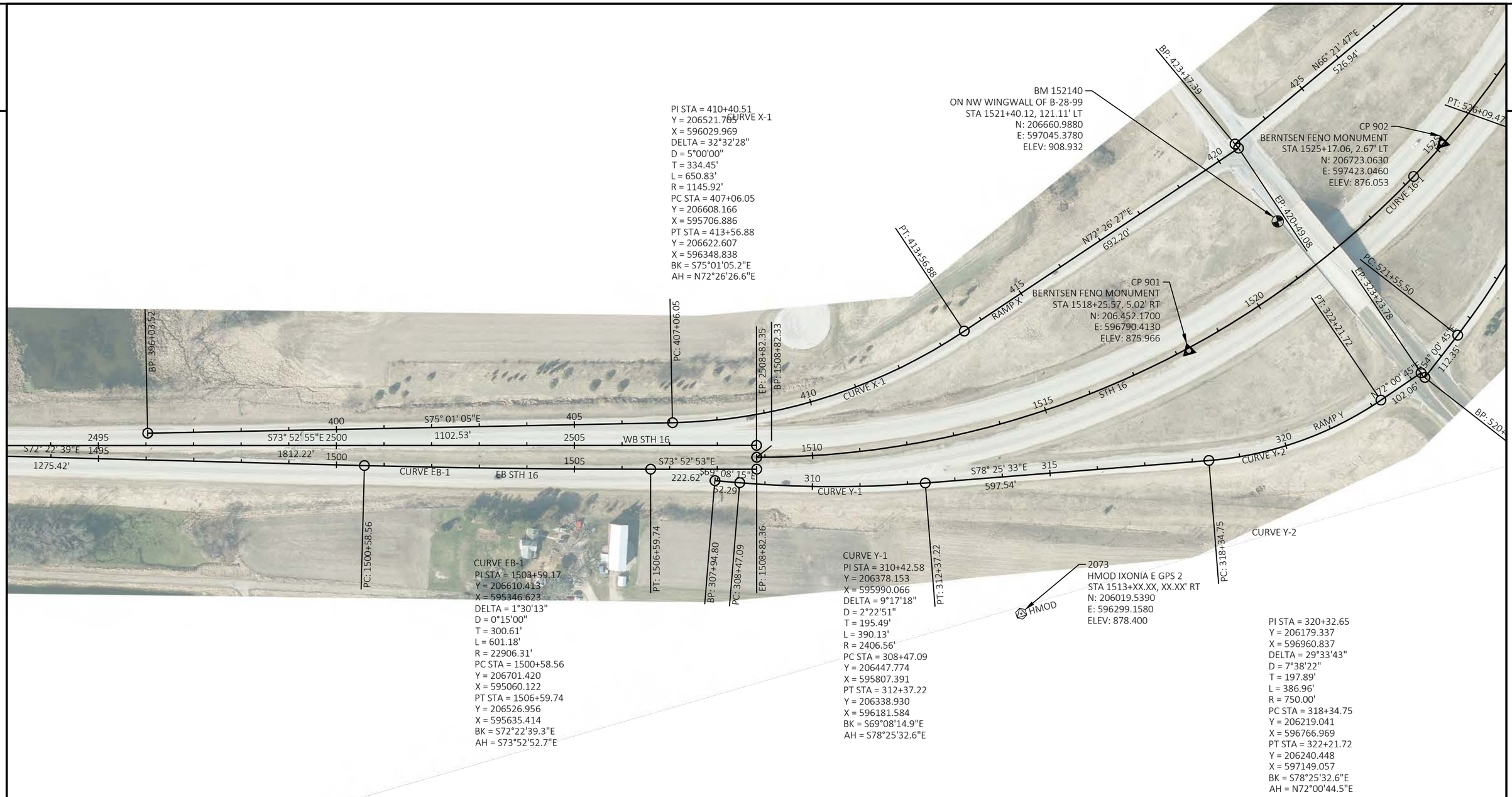
BEGIN PROJECT ID 1370-00-74
STA 1481+99

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	ALIGNMENTS	SHEET 127	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\027201-AD.DWG
LAYOUT NAME - 027201-ad

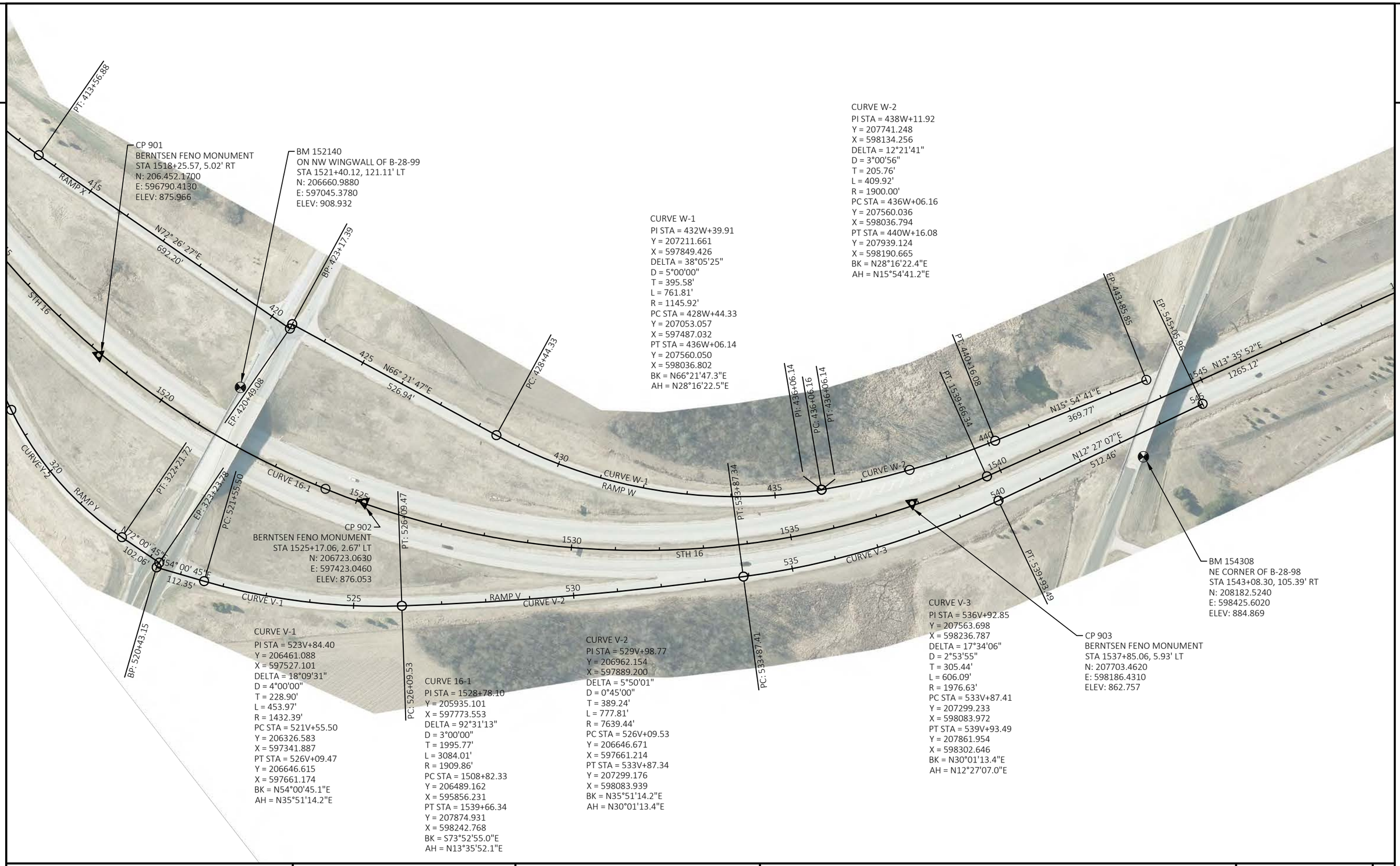
PLOT DATE : 10/12/2023 9:53 AM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:200 FT

2



PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	ALIGNMENTS	SHEET 128	E

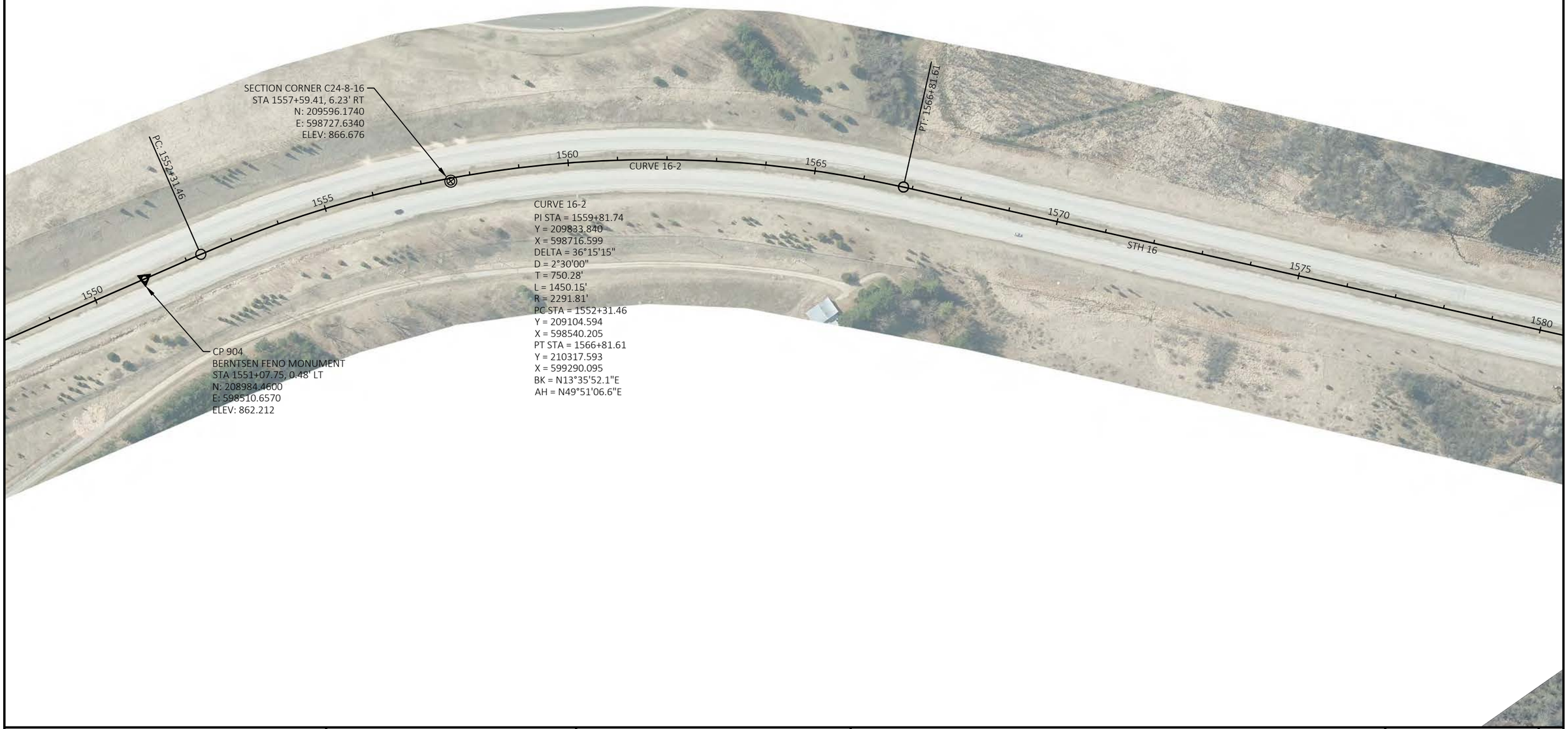
2



PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	ALIGNMENTS	SHEET 129	E

2

2



PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	ALIGNMENTS	SHEET 130	E

2

2

BM 159379
SW CORNER OF B-67-262
STA 1593+94.63, 116.72' LT
N: 212156.0700
E: 601288.6110
ELEV: 895.350

PC: 1596+67.55

1580 1585 1590 1595 1600 1605 1610

N49° 51' 07"E
2985.94'

STH 16

CURVE 16-3

END PROJECT ID 1370-00-74
BEGIN PROJECT ID 3310-06-70
STA 1594+48.50

CP 905
BERNTSEN FENO MONUMENT
STA 1589+88.40, 0.34' LT
N: 211803.8990
E: 601051.6070
ELEV: 865.426

CP 906
BERNTSEN FENO MONUMENT
STA 1601+10.60, 0.13'
N: 212494.2950
E: 601936.4170
ELEV: 870.609

CURVE 16-3
PI STA = 1612+26.91
Y = 213248.250
X = 602764.430
DELTA = 67°58'26"
D = 2°28'38"
T = 1559.36'
L = 2744.06'
R = 2312.99'
PC STA = 1596+67.55
Y = 212242.825
X = 601572.484
PT STA = 1624+11.61
Y = 212520.365
X = 604143.487
BK = N49°51'06.6"E
AH = S62°10'27.5"E

PROJECT NO: 1370-00-74 & 3310-06-70	HWY: STH 16	COUNTY: JEFFERSON & WAUKESHA	ALIGNMENTS	SHEET 131	E

2

2

PT: 1624+11.61

1615

CURVE 16-3

1620

STH 16

1625

S62° 10' 28"E
724.30'

1630

PC: 1631+35.90

CP 907
BERNTSEN FENO MONUMENT
STA 1638+75.29, 3.81' LT
N: 211950.3770
E: 605482.1690
ELEV: 900.618

PT: 1641+60.64

1635

CURVE 16-4

1640

CURVE 16-3
PI STA = 1612+26.91
Y =213248.250
X = 602764.430
DELTA = 67°58'26"
D = 2°28'38"
T = 1559.36'
L = 2744.06'
R = 2312.99'
PC STA = 1596+67.55
Y = 212242.825
X = 601572.484
PT STA = 1624+11.61
Y = 212520.365
X = 604143.487
BK = N49°51'06.6"E
AH = S62°10'27.5"E

CURVE 16-4
PI STA = 1636+56.82
Y = 211939.120
X = 605244.720
DELTA = 25°23'03"
D = 2°28'38"
T = 520.92'
L = 1024.74'
R = 2312.99'
PC STA = 1631+35.90
Y = 212182.276
X = 604784.034
PT STA = 1641+60.64
Y = 211916.929
X = 605765.166
BK = S62°10'27.5"E
AH = S87°33'30.5"E

PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	ALIGNMENTS	SHEET 132	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\027201-AD.DWG
LAYOUT NAME - 027206-ad

PLOT DATE : 10/12/2023 9:53 AM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:200 FT

2

2

PI STA = 1671+77.55
Y = 211788.410
X = 608779.330
DELTA = 6°51'27"
D = 0°30'00"
T = 686.56'
L = 1371.48'
R = 11459.16'
PC STA = 1664+90.99
Y = 211817.657
X = 608093.394
PT STA = 1678+62.47
Y = 211677.472
X = 609456.867
BK = S87°33'30.5"E
AH = S80°42'03.9"E

PC: 1664+90.99

1645 1650 S87° 33' 31"E 1655 1660 1665 1670

2330.34'

STH 16

CURVE 16-5

CURVE 16-5

CP 908
BERNTSEN FENO MONUMENT
STA 1650+09.03, 1.31' RT
N: 211879.4840
E: 606612.7230
ELEV: 891.942

BM 164583
SE CORNER OF B-67-284
STA 1645+84.47, 106.62' RT
N: 211792.3960
E: 606183.0700
ELEV: 921.081

PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	ALIGNMENTS	SHEET 133	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\027201-AD.DWG
LAYOUT NAME - 027207-ad

PLOT DATE : 10/12/2023 9:53 AM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42

2

PT: 1678+62.47

1675 1680 1685 S80° 42' 04"E 1690 1695 1700 1705

5288.72'

STH 16

END PROJECT ID 3310-06-70
STA 1678+62.43

PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	ALIGNMENTS	SHEET 134	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\027201-AD.DWG
LAYOUT NAME - 027208-ad

PLOT DATE : 10/12/2023 9:54 AM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	ALIGNMENTS	SHEET 135	E

Estimate Of Quantities

Line	Item	Item Description	Unit	Total	1370-00-74 Qty	3310-06-70 Qty
0002	204.0115	Removing Asphaltic Surface Butt Joints	SY	57.000	39.000	18.000
0004	204.0120	Removing Asphaltic Surface Milling	SY	170,617.000	104,050.000	66,567.000
0006	204.0170	Removing Fence	LF	20.000		20.000
0008	204.0180	Removing Delineators and Markers	EACH	147.000	116.000	31.000
0010	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	38.000	21.000	17.000
0012	213.0100	Finishing Roadway (project) 01. 1370-00-74	EACH	1.000	1.000	
0014	213.0100	Finishing Roadway (project) 02. 3310-06-70	EACH	1.000		1.000
0016	305.0110	Base Aggregate Dense 3/4-Inch	TON	1,650.000	1,001.000	649.000
0018	305.0500	Shaping Shoulders	STA	842.000	512.000	330.000
0020	390.0100	Removing Pavement for Base Patching	CY	50.000	25.000	25.000
0022	390.0305	Base Patching Concrete HES	CY	50.000	25.000	25.000
0024	416.0620	Drilled Dowel Bars	EACH	408.000	204.000	204.000
0026	455.0605	Tack Coat	GAL	12,085.000	7,364.000	4,721.000
0028	460.0105.S	HMA Percent Within Limits (PWL) Test Strip Volumetrics	EACH	1.000	1.000	
0030	460.0110.S	HMA Percent Within Limits (PWL) Test Strip Density	EACH	1.000	1.000	
0032	460.2000	Incentive Density HMA Pavement	DOL	160.000	90.000	70.000
0034	460.2005	Incentive Density PWL HMA Pavement	DOL	10,354.000	5,838.000	4,516.000
0036	460.2007	Incentive Density HMA Pavement Longitudinal Joints	DOL	7,580.000	4,210.000	3,370.000
0038	460.2010	Incentive Air Voids HMA Pavement	DOL	17,270.000	10,528.000	6,742.000
0040	460.6223	HMA Pavement 3 MT 58-28 S	TON	232.000	133.000	99.000
0042	460.6224	HMA Pavement 4 MT 58-28 S	TON	17,270.000	10,528.000	6,742.000
0044	465.0510	Asphaltic Rumble Strips, Shoulder Divided Roadway	LF	71,715.000	38,057.000	33,658.000
0046	465.0520	Asphaltic Rumble Strips, Shoulder	LF	1,738.000	1,738.000	
0048	604.9010.S	Slope Paving Repair Crushed Aggregate	CY	2.000		2.000
0050	604.9015.S	Reseal Crushed Aggregate Slope Paving	SY	188.000		188.000
0052	614.0010	Barrier System Grading Shaping Finishing	EACH	9.000	5.000	4.000
0054	614.0397	Guardrail Mow Strip Emulsified Asphalt	SY	1,069.000	617.000	452.000
0056	614.0920	Salvaged Rail	LF	1,668.000	853.000	815.000
0058	614.2300	MGS Guardrail 3	LF	1,975.000	1,112.500	862.500
0060	614.2610	MGS Guardrail Terminal EAT	EACH	8.000	5.000	3.000
0062	614.2620	MGS Guardrail Terminal Type 2	EACH	8.000	4.000	4.000
0064	616.0329	Gates Chain Link (width) 01. 10-FT	EACH	2.000		2.000
0066	619.1000	Mobilization	EACH	1.000	0.500	0.500
0068	624.0100	Water	MGAL	25.000	15.200	9.800
0070	628.1905	Mobilizations Erosion Control	EACH	2.000	1.000	1.000
0072	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	1.000	1.000
0074	628.7005	Inlet Protection Type A	EACH	5.000	3.000	2.000
0076	628.7504	Temporary Ditch Checks	LF	30.000	15.000	15.000
0078	628.7555	Culvert Pipe Checks	EACH	14.000	8.000	6.000
0080	630.0200	Seeding Temporary	LB	20.000	10.000	10.000
0082	633.0100	Delineator Posts Steel	EACH	233.000	160.000	73.000
0084	633.0500	Delineator Reflectors	EACH	252.000	179.000	73.000
0086	633.5200	Markers Culvert End	EACH	3.000	1.000	2.000
0088	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	10.000	5.000	5.000
0090	637.2210	Signs Type II Reflective H	SF	58.625	29.000	29.625
0092	637.2230	Signs Type II Reflective F	SF	40.000	20.000	20.000
0094	638.2102	Moving Signs Type II	EACH	8.000	5.000	3.000
0096	638.2602	Removing Signs Type II	EACH	6.000	3.000	3.000
0098	638.3000	Removing Small Sign Supports	EACH	7.000	4.000	3.000
0100	642.5401	Field Office Type D	EACH	1.000	1.000	

					1370-00-74	3310-06-70
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0102	643.0300	Traffic Control Drums	DAY	12,619.000	6,923.000	5,696.000
0104	643.0420	Traffic Control Barricades Type III	DAY	3,438.000	1,819.000	1,619.000
0106	643.0500	Traffic Control Flexible Tubular Marker Posts	EACH	68.000	68.000	
0108	643.0600	Traffic Control Flexible Tubular Marker Bases	EACH	68.000	68.000	
0110	643.0705	Traffic Control Warning Lights Type A	DAY	6,877.000	3,639.000	3,238.000
0112	643.0715	Traffic Control Warning Lights Type C	DAY	5,819.000	3,678.000	2,141.000
0114	643.0900	Traffic Control Signs	DAY	6,511.000	3,246.000	3,265.000
0116	643.0920	Traffic Control Covering Signs Type II	EACH	1.000		1.000
0118	643.1050	Traffic Control Signs PCMS	DAY	133.000	89.000	44.000
0120	643.1070	Traffic Control Cones 42-Inch	DAY	61,977.000	35,724.000	26,253.000
0122	643.3165	Temporary Marking Line Paint 6-Inch	LF	2,365.000	2,365.000	
0124	643.3180	Temporary Marking Line Removable Tape 6-Inch	LF	9,210.000	7,650.000	1,560.000
0126	643.3265	Temporary Marking Line Paint 10-Inch	LF	1,220.000	1,220.000	
0128	643.3280	Temporary Marking Line Removable Tape 10-Inch	LF	1,200.000	1,200.000	
0130	643.3980	Temporary Marking Removable Mask Out Tape 8-Inch	LF	400.000		400.000
0132	643.4100	Traffic Control Interim Lane Closure	EACH	36.000	18.000	18.000
0134	643.5000	Traffic Control	EACH	1.000	0.500	0.500
0136	646.2025	Marking Line Grooved Black Epoxy 6-Inch	LF	9,475.000	5,287.500	4,187.500
0138	646.2040	Marking Line Grooved Wet Ref Epoxy 6-Inch	LF	90,628.000	56,971.000	33,657.000
0140	646.2050	Marking Line Grooved Permanent Tape 6-Inch	LF	9,475.000	5,287.500	4,187.500
0142	646.4050	Marking Line Grooved Permanent Tape 10-Inch	LF	4,455.000	4,455.000	
0144	646.5020	Marking Arrow Epoxy	EACH	2.000	2.000	
0146	646.6120	Marking Stop Line Epoxy 18-Inch	LF	90.000	90.000	
0148	646.7120	Marking Diagonal Epoxy 12-Inch	LF	626.000	626.000	
0150	646.7220	Marking Chevron Epoxy 24-Inch	LF	470.000	470.000	
0152	646.9100	Marking Removal Line 8-Inch	LF	1,550.000	1,550.000	
0154	650.8000	Construction Staking Resurfacing Reference	LF	39,891.000	21,262.000	18,629.000
0156	650.9911	Construction Staking Supplemental Control (project) 01. 1370-00-74	EACH	1.000	1.000	
0158	650.9911	Construction Staking Supplemental Control (project) 02. 3310-06-70	EACH	1.000		1.000
0160	690.0250	Sawing Concrete	LF	768.000	384.000	384.000
0162	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	500.000	500.000	
0164	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	1,200.000	1,200.000	
0166	SPV.0045	Special 01. Connected Work Zone Notification System	DAY	80.000		80.000
0168	SPV.0060	Special 01. Utility Line Opening	EACH	3.000		3.000

Location	Removing Asphaltic Surface Butt Joints 204.0115 SY
I.D. 1370-00-74	
STA 2483+00	11
STA 322+44	7
STA 419+63	7
STA 423+96	7
STA 521+30	7
Subtotal	39
I.D. 3310-06-70	
STA 1678+63	18
Subtotal	18
Total	57

Location	Removing Asphaltic Surface Milling 204.0120 SY
I.D. 1370-00-74	
Stage 1	37,870
Stage 2	1,832
Stage 3	64,348
Subtotal	104,050
I.D. 3310-06-70	
Stage 1	29,073
Stage 2	0
Stage3	37,494
Subtotal	66,567
Total	170,617

Location	Prepare Foundation for Asphaltic Shoulders 211.0400 STA
I.D. 1370-00-74	
STA 1518+30 to 1522+46 RT	5
STA 1521+03 to 1524+34 LT	4
STA 1540+30 to 1544+51 RT	5
STA 1543+26 to 1546+97 LT	4
STA 1592+40 to 1594+48 RT	3
Subtotal	21
I.D. 3310-06-70	
STA 1594+48 to 1596+23 RT	3
STA 1594+92 to 1598+87 LT	5
STA 1642+61 to 1646+20 RT	5
STA 1645+01 to 1648+73 LT	4
Subtotal	17
Total	38

Location		Excavation Common* 205.0100 CY	Borrow* 208.0100 CY	Salvaged Topsoil* 625.0500 SY	Erosion Mat Urban Class I Type A* 628.2006 SY	Fertilizer Type B* 629.0210 CWT	Seeding Mixture No. 30* 630.0130 LB	Seed Water* 630.0500 MGAL	Construction Staking Slope Stakes* 650.9920 LF
I.D. 1370-00-74									
STA 1518+50 to 1522+12	RT	24	4	46	46	0.03	0.82	0.77	362
STA 1521+36 to 1524+30	LT	24	4	82	82	0.05	1.48	1.38	294
STA 1540+80 to 1544+21	RT	26	13	155	155	0.1	2.77	2.61	341
STA 1543+65 to 1546+68	LT	26	13	165	165	0.1	2.95	2.78	303
STA 1592+77 to 1594+55	RT	11	0	76	76	0.05	1.36	1.28	178
	Subtotal	111	34	524	524	0.33	9.38	8.82	1,478
I.D. 3310-06-70									
STA 1594+55 to 1595+92	RT	15	0	0	0	0	0	0	137
STA 1595+22 to 1598+49	LT	26	0	81	81	0.05	1.45	1.36	327
STA 1642+93 to 1645+96	RT	27	34	317	317	0.2	5.69	5.34	303
STA 1645+31 to 1648+34	LT	26	33	200	200	0.13	3.59	3.37	303
	Subtotal	94	67	598	598	0.38	10.73	10.07	1,070
	Total	205	101	1,122	1,122	0.71	20.11	18.89	2,548

* = Items and Quantities listed for Bid Information Only. Paid as Item 614.0010, Barrier System Grading Shaping Finishing.

Location		Base Aggregate Dense 3/4-Inch 305.0110 TON	Shaping Shoulders 305.0500 STA	Water 624.0100 MGAL
I.D. 1370-00-74				
Stage 1				
STA 1492+50 to 1548+00	LT	330	46	5
STA 1492+50 to 1548+00	RT	312	48	4.7
STA 1548+00 to 1587+18	LT, RT	145	80	2.2
STA 1587+56 to 1594+48	LT	13	8	0.2
STA 1587+56 to 1594+48	RT	71	5	1.1
Subtotal		871	187	13.2
Stage 2				
STA 1483+85 to 1488+10	LT, RT	21	12	0.3
Subtotal		21	12	0.3
Stage 3				
STA 1488+10 to 1544+00	LT	0	58	0
STA 1488+10 to 1544+00	RT	0	56	0
STA 1544+25 to 1594+48	RT	0	51	0
STA 1543+68 to 1594+48	LT	0	52	0
Ramp X		28	24	0.4
Ramp Y		24	22	0.4
Ramp V		26	22	0.4
Ramp W		31	28	0.5
Subtotal		109	313	1.7
Total ID 1370-00-74		1,001	512	15.2
I.D. 3310-06-70				
Stage 1				
STA 1594+48 to 1602+50	LT	114	5	1.7
STA 1594+48 to 1602+50	RT	51	7	0.8
STA 1602+50 to 1628+01	LT/RT	105	60	1.6
STA 1628+25 to 1660+25	LT	161	29	2.4
STA 1628+25 to 1660+25	RT	151	29	2.3
STA 1660+46 to 1678+63	LT/RT	67	38	1
Subtotal		649	168	9.8
Stage 3				
STA 1594+48 to 1678+63	LT	0	83	0
STA 1594+48 to 1678+63	RT	0	79	0
Subtotal		0	162	0
Total ID 3310-06-70		649	330	9.8
Total		1,650	842	25

Location				Asphaltic Rumble Strips, Shoulder Divided Roadway 465.0510 LF	Asphaltic Rumble Strips, Shoulder 465.0520 LF
I.D. 1370-00-74					
2483WW+85	TO	2492WW+54	LT	--	869
2492WW+54	TO	2502WW+59	LT	1,005	--
1483EE+85	TO	1492EE+54	RT	--	869
1492EE+54	TO	1506EE+36	RT	1,382	--
2492WW+54	TO	2508WW+82	RT	1,628	--
1492EE+54	TO	1508EE+82	LT	1,628	--
2508WW+35	TO	2508WW+82	LT	47	--
1508+82	TO	1536+51	LT	2,769	--
1512+65	TO	1531+93	RT	1,928	--
1508+82	TO	1594+48.50	LT	8,567	--
1508+82	TO	1594+48.50	RT	8,567	--
1538+48	TO	1594+48.50	RT	5,601	--
1545+12	TO	1594+48.50	LT	4,937	--
		Subtotal		38,057	1,738
I.D. 3310-06-70					
1594+48.50	TO	1678+63	LT	8,415	--
1594+48.50	TO	1678+63	LT	8,415	--
1594+48.50	TO	1678+63	RT	8,415	--
1594+48.50	TO	1678+63	RT	8,415	--
		Subtotal		33,658	0
		Total		71,715	1,738

Location	Tack Coat 455.0605 GAL	HMA Pavement 3 MT 58-28 S 460.6223 TON	HMA Pavement 4 MT 58-28 S 460.6224 TON
I.D. 1370-00-74			
Stage 1	2,732	133	3,869
Stage 2	128	0	184
Stage 3	4,504	0	6,475
Subtotals	7,364	133	10,528
I.D. 3310-06-70			
Stage 1	2,096	99	2,969
Stage 2	0	0	0
Stage 3	2,625	0	3,773
Subtotals	4,721	99	6,742
Total	12,085	232	17,270

Location	Removing Pavement for Base Patching 390.0100 CY	Base Patching Concrete HES 390.0305 CY	Drilled Dowel Bars 416.0620 EA	Sawing Concrete 690.0250 LF
I.D. 1370-00-74				
Undistributed	25	25	204	384
Subtotal	25	25	204	384
I.D. 3310-06-70				
Undistributed	25	25	204	384
Subtotal	25	25	204	384
Total	50	50	408	768

Location	HMA Percent Within Limits Test Strip: Volumetrics 460.0105.S EA	HMA Percent Within Limits Test Strip: Density 460.0110.S EA
I.D. 1370-00-74	1	1
I.D. 3310-06-70	--	--
Total	1	1

PWL TABLE

Location	Station	Mixture Use:	Underlying Surface	Bid Item	Tons	Thickness	Quality Management Program to be used for: Mixture Acceptance	Quality Management Program to be used for: Density Acceptance
12 foot Driving Lane	1483+85 to 1678+62	Upper layer	Milled Existing Concrete Pavement	4 MT 58-28 S	5,168	1 3/4"	PWL Incentive Air Voids HMA Pavement 460.2010	Incentive Density PWL HMA Pavement 460.2005
12 foot Driving Lane	1483+85 to 1678+62	Upper layer	Milled Existing Concrete Pavement	4 MT 58-28 S	5,186	1 3/4"	PWL Incentive Air Voids HMA Pavement 460.2010	Incentive Density PWL HMA Pavement 460.2005
Ramp Driving Lane, Shoulders, and Gores	1496+00 to 1544+00	Upper layer	Milled Existing Concrete Pavement	4 MT 58-28 S	2,168	1 3/4"	PWL Incentive Air Voids HMA Pavement 460.2010	Acceptance testing by the department; Not eligible for incentive.
8 foot Outside shoulder	1483+85 to 1678+62	Upper layer	Milled Existing HMA Surface	4 MT 58-28 S	3,204	1 3/4"	PWL Incentive Air Voids HMA Pavement 460.2010	Acceptance testing by the department; Not eligible for incentive.
3 foot Inside Shoulder	1483+85 to 1678+62	Upper layer	Milled Existing HMA Surface	4 MT 58-28 S	1,271	1 3/4"	PWL Incentive Air Voids HMA Pavement 460.2010	Acceptance testing by the department; Not eligible for incentive.
Maintenance Openings	1547+00 to 1661+00	Upper layer	Milled Existing HMA Surface	4 MT 58-28 S	167	1 3/4"	PWL Incentive Air Voids HMA Pavement 460.2010	Acceptance testing by the department; Not eligible for incentive.
3 foot Inside Shoulder Widening	1518+30 to 1648+73	Lower Layer	Base Aggregate	3 MT 58-28 S	232	4"	QMP as per SS 460.	Incentive Density HMA Pavement 460.2000
3 foot Inside Shoulder Widening	1518+30 to 1648+73	Upper layer	3 MT 58-28 S	4 MT 58-28 S	103	1 3/4"	PWL Incentive Air Voids HMA Pavement 460.2010	Acceptance testing by the department; Not eligible for incentive.

Location	Barrier System Grading Shaping Finishing 614.0010 EA	Guardrail Mow Strip Emulsified Asphalt 614.0397 SY	MGS Guardrail 3 614.2300 LF	MGS Guardrail Terminal EAT 614.2610 EA	MGS Guardrail Terminal Type 2 614.2620 EA
I.D. 1370-00-74					
STA 1518+79 to 1522+17 RT	1	151	287.5	1	1
STA 1521+38 to 1523+81 LT	1	108	187.5	1	1
STA 1540+80 to 1544+21 RT	1	151	287.5	1	1
STA 1543+56 to 1546+47 LT	1	130	237.5	1	1
STA 1592+90 to 1594+56 RT	1	77	112.5	1	0
Subtotal	5	617	1,112.5	5	4
I.D. 3310-06-70					
STA 1594+56 to 1595+93 RT	1	58	137.5	0	1
STA 1595+22 to 1598+37 LT	1	140	262.5	1	1
STA 1643+12 to 1645+91 RT	1	124	225	1	1
STA 1645+31 to 1648+22 LT	1	130	237.5	1	1
Subtotal	4	452	862.5	3	4
Total	9	1,069	1,975	8	8

Location	Salvaged Rail 614.0920 LF
I.D. 1370-00-74	
Wisconsin Ave	428
Ski Slide Road	425
Subtotal	853
I.D. 3310-06-70	
Lang Road	415
Pennsylvania Street	400
Subtotal	815
Total	1,668

Location	Slope Paving Repair Crushed Aggregate 604.9010.S CY	Reseal Crushed Aggregate Slope Paving 604.9015.S SY
I.D. 1370-00-74	0	0
Subtotal	0	0
I.D. 3310-06-70		
STA 1645+65, RT	1	94
STA 1645+65, LT	1	94
Subtotal	2	188
Total	2	188

Location	Removing Fence 204.0170 LF	Gates Chain Link (10-FT) 616.0329 EA
I.D. 1370-00-74	--	--
Subtotal	--	--
I.D. 3310-06-70		
STA 1644+98, 137' RT	10	1
STA 1645+24, 146' LT	10	1
Subtotal	20	2
Total	20	2

Location	Mobilization Erosion Control 628.1905 EA	Mobilization Emergency Erosion Control 628.1910 EA	Inlet Protection Type A 628.7005 EA	Temporary Ditch Checks 628.7504 LF	Culvert Pipe Checks 628.7555 EA	Seeding Temporary 630.0200 LB
I.D. 1370-00-74						
STA 1518+50 to 1522+12 RT	--	--	1	--	--	--
STA 1521+36 to 1524+30 LT	--	--	--	--	--	--
STA 1540+80 to 1544+21 RT	--	--	--	--	4	--
STA 1543+65 to 1546+68 LT	--	--	--	--	2	--
STA 1592+77 to 1594+55 RT	--	--	1	--	--	--
Undistributed	1	1	1	15	2	10
Subtotal	1	1	3	15	8	10
I.D. 3310-06-70						
STA 1594+55 to 1595+92 RT	--	--	--	--	--	--
STA 1595+22 to 1598+49 LT	--	--	--	--	2	--
STA 1642+93 to 1645+96 RT	--	--	--	--	2	--
STA 1645+31 to 1648+34 LT	--	--	1	--	--	--
Undistributed	1	1	1	15	2	10
Subtotal	1	1	2	15	6	10
Totals	2	2	5	30	14	20

Stage	Cycles	Covering Signs Type II 643.092 EA
ID 3310-06-70		
Undistributed	1	1
Total		1

Stage	DAYS	Traffic Control: Drums 643.0300 DAY	Barricades Type III 643.0420 DAY	Flexible Tubular Marker Posts 643.0500 EACH	Flexible Tubular Marker Bases 643.0600 EACH	Warning Lights Type A 643.0705 DAY	Warning Lights Type C 643.0715 DAY	Signs 643.0900 DAY	Signs PCMS 643.1050 DAY	Cones 42-Inch 643.1070 DAY	Interim Lane Closure 643.4100 EACH	Connected Work Zone Notification System SPV.0045.01 DAY
ID 1370-00-74												
Stage 1	40	2,160	960	--	--	1,920	2,040	1,640	30	18,920	16	--
Stage 2	2	246	50	--	--	100	56	120	21	832	--	--
Stage 3	24	3,888	504	62	62	1,008	1,248	936	30	9,912	--	--
Stage 4	7	--	154	--	--	308	--	280	--	3,094	--	--
Undistributed	1	629	151	6	6	303	334	270	8	2,966	2	--
Subtotals		6,923	1,819	68	68	3,639	3,678	3,246	89	35,724	18	0
ID 3310-06-70												
Stage 1	40	3,280	720	--	--	1,440	1,400	1,200	20	13,200	16	40
Stage 2	2	146	50	--	--	100	42	114	--	656	--	2
Stage 3	24	1,752	600	--	--	1,200	504	1,368	20	7,872	--	24
Stage 4	7	--	112	--	--	224	--	315	--	2,352	--	7
Undistributed	1	518	137	--	--	274	195	268	4	2,173	2	7
Subtotals		5,696	1,619	0	0	3,238	2,141	3,265	44	26,253	18	80
Totals		12,619	3,438	68	68	6,877	5,819	6,511	133	61,977	36	80

Location	Temporary Marking Line Paint 6-Inch (White) 643.3165 LF	Temporary Marking Line Paint 6-Inch (Yellow) 643.3165 LF	Temporary Marking Line Paint 10-Inch (White) 643.3265 LF	Temporary Marking Line Removable Tape 6-Inch (White) 643.3180 LF	Temporary Marking Line Removable Tape 6-Inch (Yellow) 643.3180 LF	Temporary Marking Line Removable Tape 10-Inch (White) 643.3280 LF	Temporary Marking Removable Mask Out Tape 8-Inch 643.3980 LF	Marking Removal Line 8-Inch 646.9100 LF
I.D. 1370-00-74								
Stage 1	--	--	--	--	600	--	--	--
Stage 2	275	--	420	--	--	--	--	50
Stage 3	1,055	1,035	800	3,435	3,615	1,200	--	1,500
Subtotals	2,365		1,220	7,650		1,200	0	1,550
I.D. 3310-06-70								
Stage 1	--	--	--	--	780	--	200	
Stage 2	--	--	--	--	--	--	--	--
Stage 3	--	--	--	780	--	--	200	--
Subtotals	0	0	0	1,560		0	400	0
Total	2,365		1,220	9,210		1,200	400	1,550

Location	Removing Delineators and Markers† 204.0180 EA	Markers Culvert End 633.5200 EA
I.D. 1370-00-74		
Undistributed	1	1
Subtotal	1	1
I.D. 3310-06-70		
STA 1599+00 RT	1	1
STA 1654+00 LT	1	1
Subtotal	2	2
Totals	3	3

† Other quantities shown elsewhere in the plan.

Location	Marking Line Grooved Black Epoxy 6-Inch 646.2025 LF	Marking Line Grooved Wet Ref Epoxy 6-Inch White 646.2040 LF	Marking Line Grooved Wet Ref Epoxy 6-Inch Yellow 646.2040 LF	Marking Line Grooved Permanent Tape 6-Inch 646.2050 LF	Marking Line Grooved Permanent Tape 10-Inch 646.4050 LF	Marking Line Grooved Permanent Tape 10-Inch 3' Line, 9' Gap 646.4050 LF	Marking Arrow Epoxy 646.5020 EA	Marking Stop Line Epoxy 18-Inch 646.6120 LF	Marking Diagonal Epoxy 12-Inch 646.7120 LF	Marking Chevron Epoxy 24-Inch 646.7220 LF
I.D. 1370-00-74										
STA 1482+00 to 1521+50, LT	775	5,123	6,573	775	1,260	--	--	--	626	--
STA 1482+00 to 1521+50, RT	850	5,061	6,442	850	689	66	1	46	--	189
STA 1521+50 to 1594+48.5, LT	1,825	8,537	8,573	1,825	908	84	1	44	--	281
STA 1521+50 to 1594+48.5, RT	1,837.5	8,329	8,333	1,837.5	1,448	--	--	--	--	--
Subtotals	5,287.5	27,050	29,921	5,287.5	4,305	150	2	90	626	470
		56,971			4,455					
I.D. 3310-06-70										
STA 1594+48.5 to 1678+63, LT	2,100	8,455	8,437	2,100	--	--	--	--	--	--
STA 1594+48.5 to 1678+63, RT	2,087.5	8,373	8,392	2,087.5	--	--	--	--	--	--
Subtotals	4,187.5	16,828	16,829	4,187.5	0	0	0	0	0	0
		33,657			0					
Totals	9,475	90,628		9,475	4,455		2	90	626	470

Location	Construction Staking Resurfacing Reference 650.8000 LF	Construction Staking Supplemental Control 650.9911 EA
I.D. 1370-00-74	21,262	1
I.D. 3310-06-70	18,629	1
Total	39,891	2

Location	Traffic Control 643.5000 EA
I.D. 1370-00-74	0.5
I.D. 3310-06-70	0.5
Total	1

Location	Utility Line Opening SPV.0060.01 EA
I.D. 1370-00-74	0
I.D. 3310-06-70	3
Total	3

Location	Finishing Roadway 213.0100 EA
I.D. 1370-00-74	1
I.D. 3310-06-70	1
Total	2

Location	Removing Delineators and Markers† 204.0180 EA	Delineator Posts Steel 633.0100 EA	Delineator Reflectors 633.0500 EA
I.D. 1370-00-74	115	160	179
I.D. 3310-06-70	29	73	73
Total	144	233	252

† Other quantities shown elsewhere in the plan.

Location	Field Office Type D 642.5401 EA
I.D. 1370-00-74	1
I.D. 3310-06-70	0
Total	1

Location	Mobilization 619.1000 EA
I.D. 1370-00-74	0.5
I.D. 3310-06-70	0.5
Total	1

TYPE II PERMANENT SIGNING

SIGN NO.	SIGN CODE & SIZE	SIGN TYPE	SIGN MESSAGE	TYPE II SIGN SIZE W [IN.]	x	H [IN.]	**637.2210** SIGNS TYPE II REFLC H [SF]	**637.2230** SIGNS TYPE II REFLC F [SF]	**638.2602** REMOVING SIGNS TYPE II [EA]	**638.3000** REMOVING SMALL SIGN SUPPORTS [EA]	**634.0618** POSTS WOOD 4"X 6"X18' [EA]	**638.2102** MOVING SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
1	R5-57(2S)	II	--	36	x	36	9.000	--	--	--	1	--	--	--
2	R4-7	II	--	--	x	--	--	--	--	1	1	1	--	--
3	W5-54	II	--	--	x	--	--	--	--	--	--	1	2	--
--	--	--	--	--	x	--	--	--	--	--	--	--	--	--
--	--	--	--	--	x	--	--	--	--	--	--	--	--	--
	UNDISTRIBUTED						20.000	20.000	3	3	3	3		
	TOTALS						29.000	20.000	3	4	5	5		

3

SHEET 1 OF 1

TYPE II PERMANENT SIGNING

SIGN NO.	SIGN CODE & SIZE	SIGN TYPE	SIGN MESSAGE	TYPE II SIGN SIZE W [IN.]	x	H [IN.]	**637.2210** SIGNS TYPE II REFLC H [SF]	**637.2230** SIGNS TYPE II REFLC F [SF]	**638.2602** REMOVING SIGNS TYPE II [EA]	**638.3000** REMOVING SMALL SIGN SUPPORTS [EA]	**634.0618** POSTS WOOD 4"X 6"X18' [EA]	**638.2102** MOVING SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
1 - 9	NOT USED	--	--	--	x	--	--	--	--	--	--	--	--	--
10	M1-94	II	LANG RD	66	x	21	9.625	--	--	--	2	--	--	--
--	--	--	--	--	x	--	--	--	--	--	--	--	--	--
	UNDISTRIBUTED						20.000	20.000	3	3	3	3		
	TOTALS						29.625	20.000	3	3	5	3		

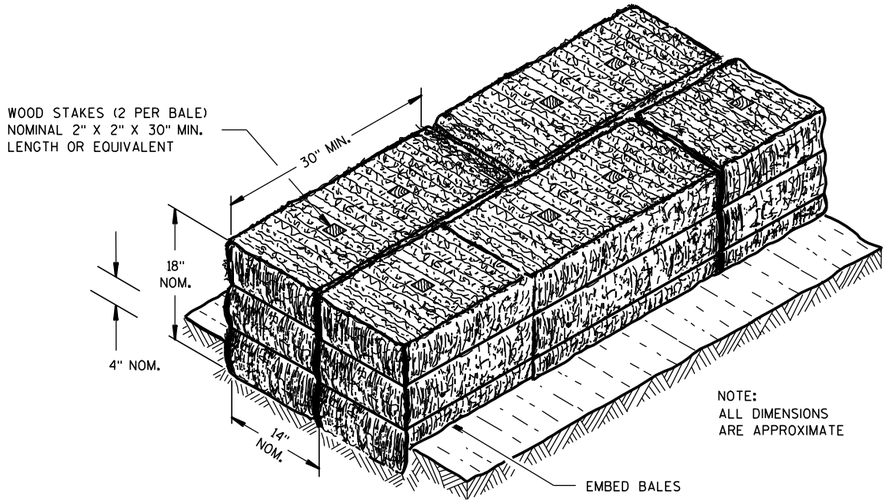
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SHEET 1 OF 1

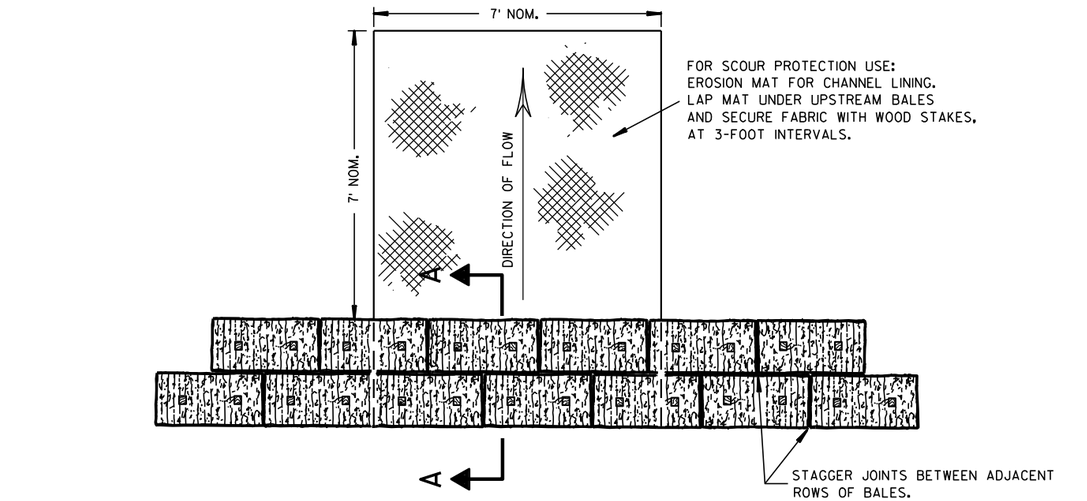
Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E10-02	INLET PROTECTION TYPE A, B, C AND D
13A05-06A	SHOULDER RUMBLE STRIPS, DIVIDED ROADWAY
13A05-06B	SHOULDER RUMBLE STRIPS, DIVIDED ROADWAY
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
13C14-07A	BASE PATCHING CONCRETE
13C14-07B	BASE PATCHING CONCRETE
13C14-07C	BASE PATCHING CONCRETE
14B28-04A	GUARDRAIL MOW STRIP
14B28-04B	GUARDRAIL MOW STRIP
14B42-07A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B47-05A	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-05B	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-05C	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-05D	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-05E	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-05F	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-05G	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15A04-07C	DELINEATOR BRACKET WITH REFLECTIVE SHEETING
15B03-15A	FENCE CHAIN LINK
15B03-15B	FENCE CHAIN LINK
15C02-09G	TRAFFIC CONTROL FOR ENTRANCE RAMP CLOSURE
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C07-15C	PAVEMENT MARKING ARROWS
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C08-23B	TEMPORARY LONGITUDINAL PAVEMENT MARKING
15C11-10A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C12-09B	TRAFFIC CONTROL, LANE CLOSURE WITH AUTOMATED FLAGGER ASSISTANCE DEVICE
15C18-08A	MEDIAN ISLAND MARKING PAVEMENT MARKINGS
15C19-08C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C31-05A	PAVEMENT MARKING EXIT RAMP AND PARALLEL EXIT RAMP
15C31-05C	PAVEMENT MARKING ENTRANCE RAMP AND PARALLEL ENTRANCE RAMP
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D15-07B	TRAFFIC CONTROL, ENTRANCE RAMP WITHIN LANE CLOSURE
15D15-07C	TRAFFIC CONTROL, TAPERED ENTRANCE RAMP WITHIN LANE CLOSURE
15D15-07D	TRAFFIC CONTROL, TAPERED ENTRANCE RAMP WITHIN LANE CLOSURE
15D40-05D	TRAFFIC CONTROL, PARTIAL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER
15D50-03A	TRAFFIC CONTROL, ADDED LANE CLOSURE WITHOUT LANE SHIFT
15D50-03B	TRAFFIC CONTROL, ADDED LANE CLOSURE WITH LANE SHIFT

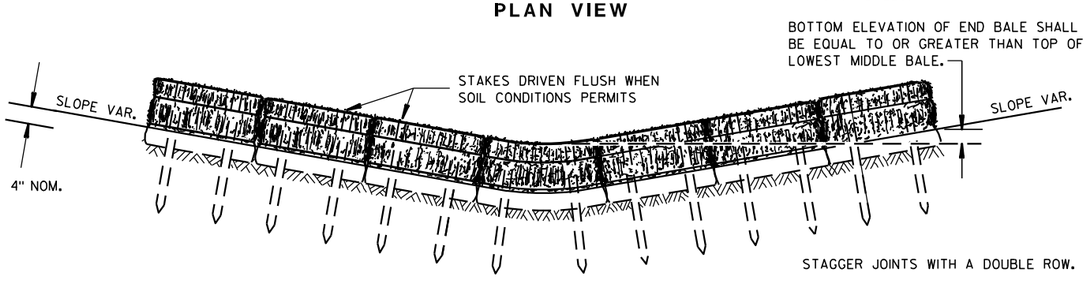
6



SECTION A-A



PLAN VIEW



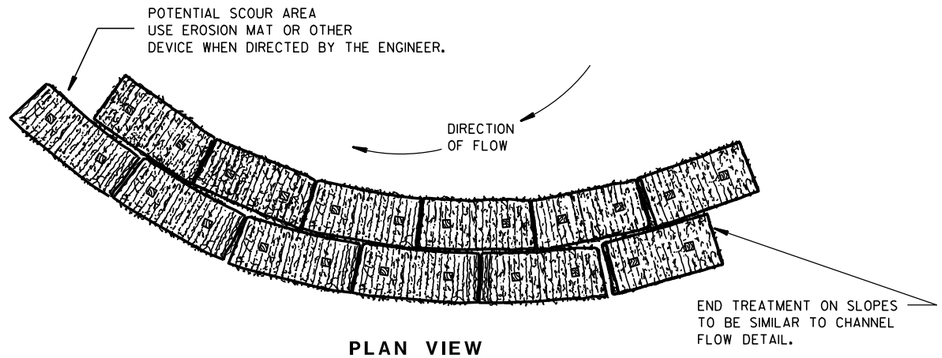
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

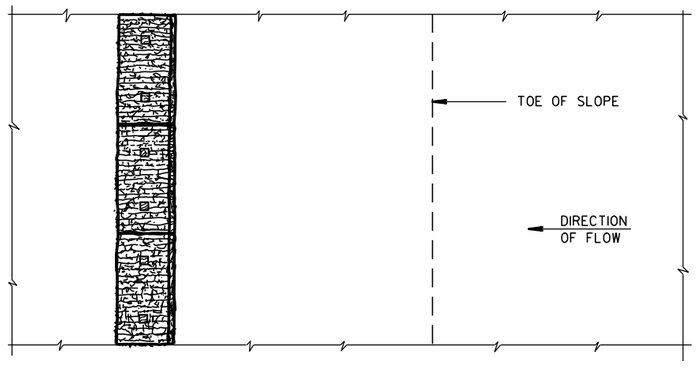
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

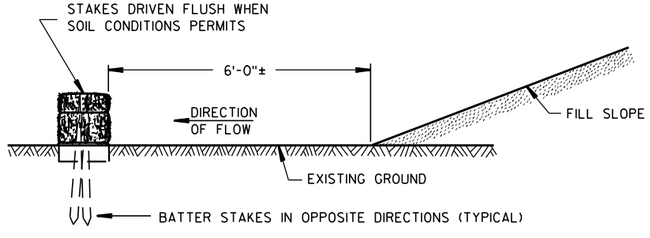


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

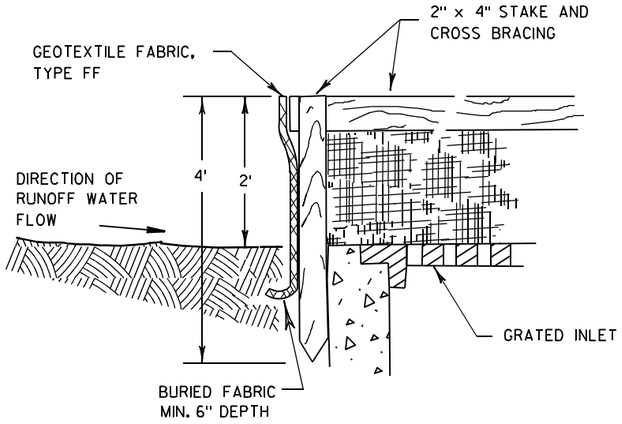
APPROVED
6/04/02 DATE
/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

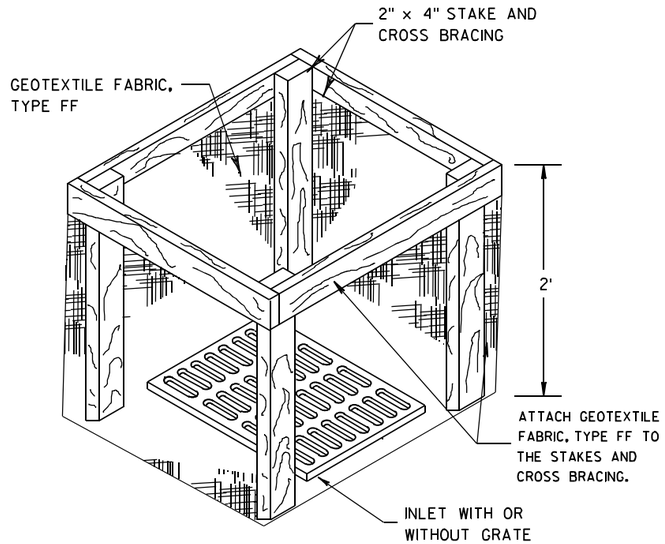
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S.D.D. 8 E 8-3

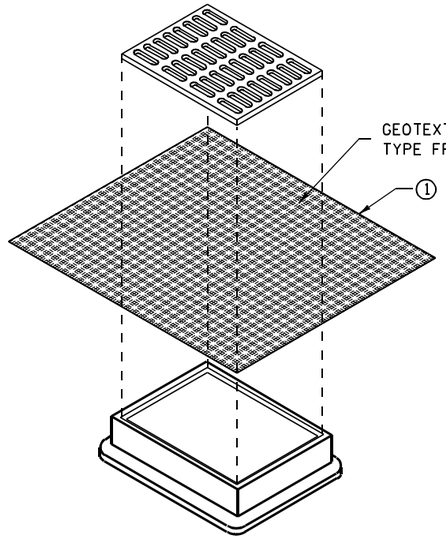
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S.D.D. 8 E 8-3



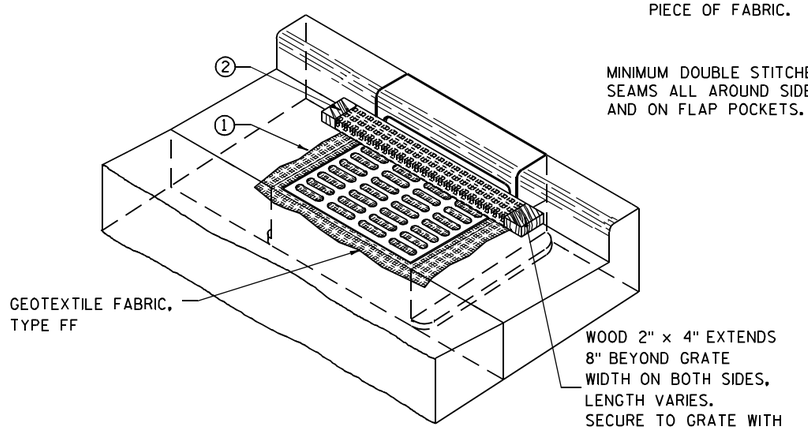


INLET PROTECTION, TYPE A

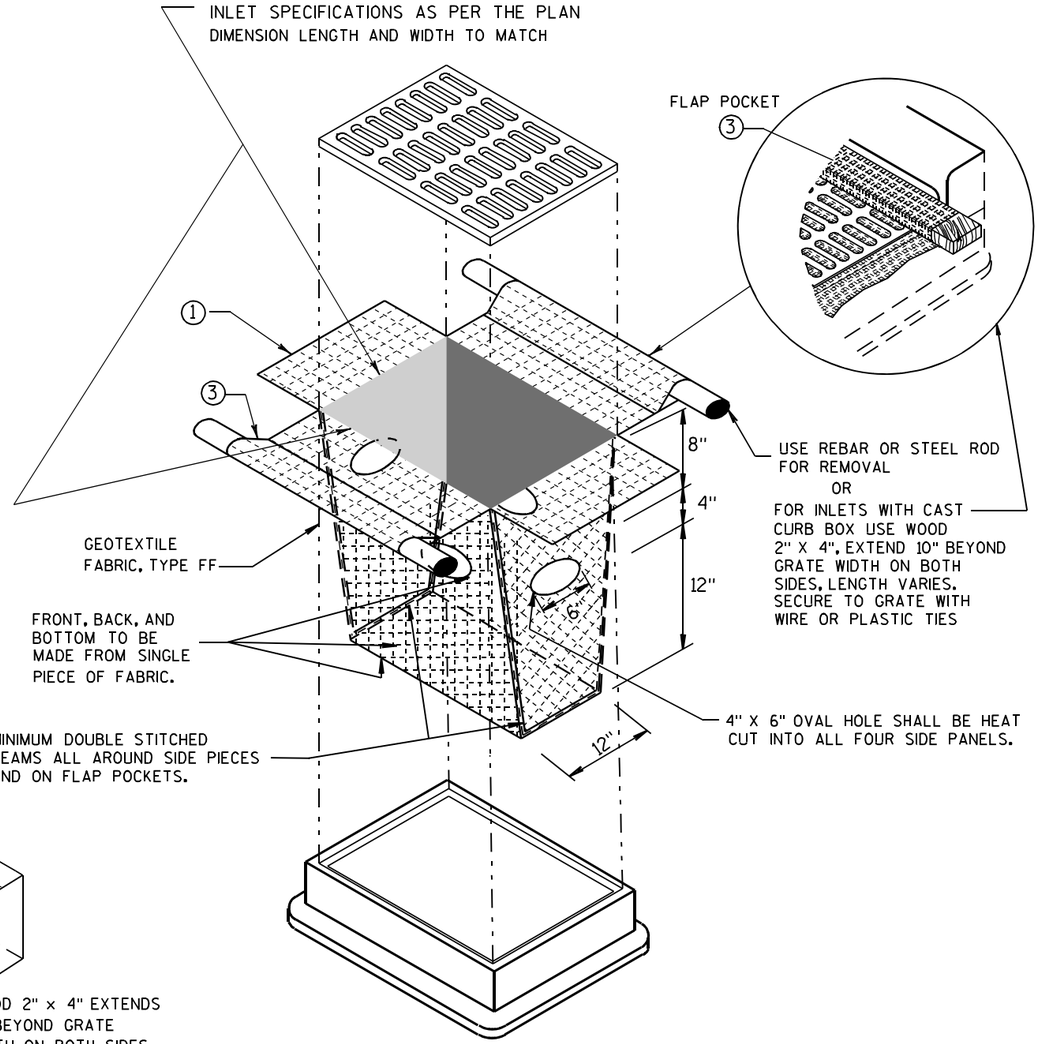


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

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



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

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

GENERAL NOTES

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

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

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

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

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

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

INSTALLATION NOTES

TYPE B & C

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

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

TYPE D

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

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

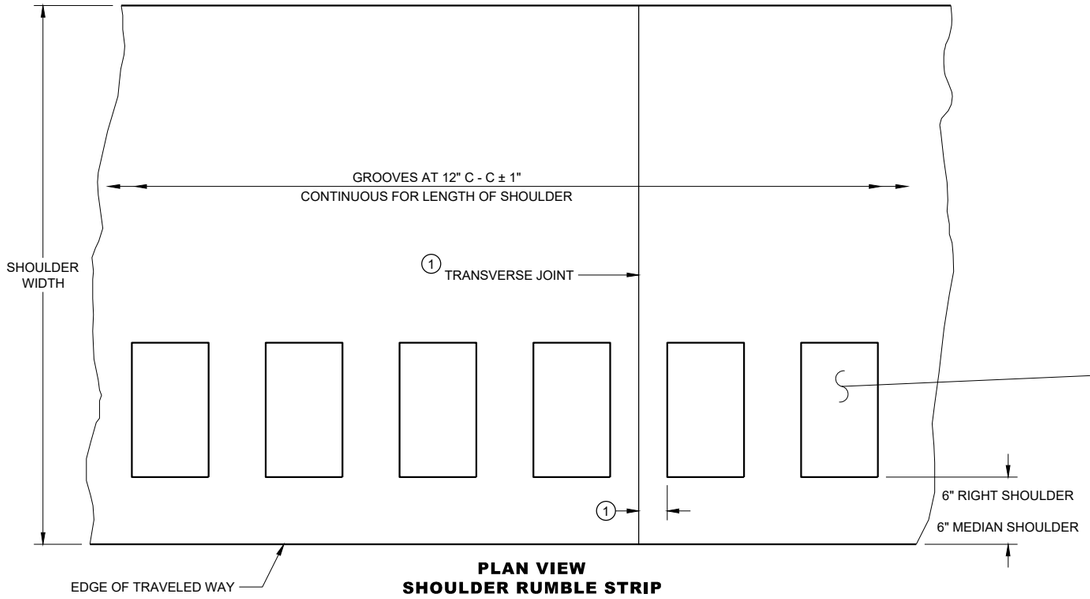
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE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

INLET PROTECTION
TYPE A, B, C, AND D

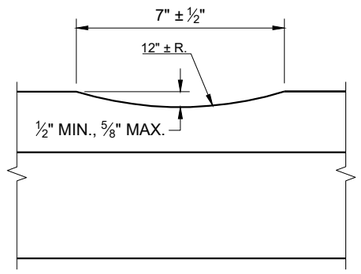
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

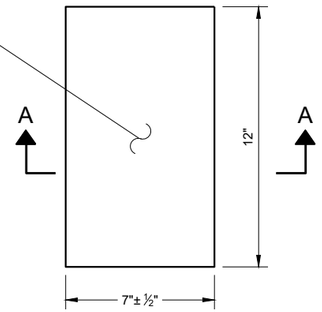
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S.D.D. 8 E 10-2



PLAN VIEW
SHOULDER RUMBLE STRIP



SECTION A - A



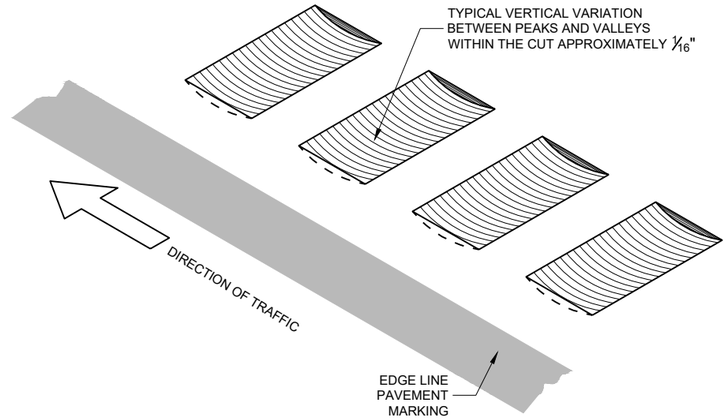
PLAN VIEW
(SINGLE GROOVE)

GENERAL NOTES

SDD 13A5, SHEET "b" SHOWS THE LOCATION OF THE RUMBLE STRIPS AT RAMP AND GORE LOCATIONS.

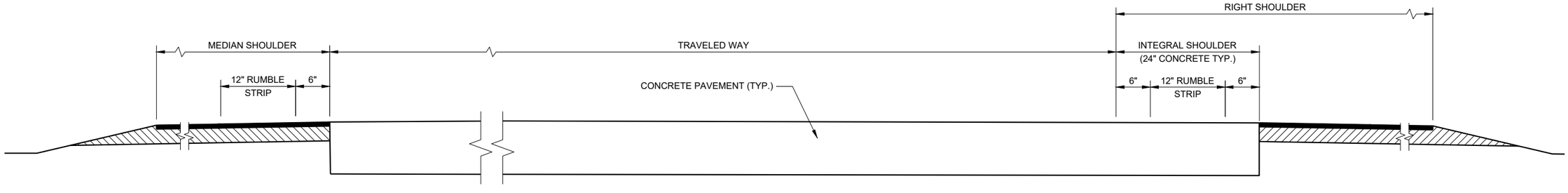
RUMBLE STRIPS ON EXPRESSWAYS:
DO NOT INSTALL SHOULDER RUMBLE STRIPS ACROSS SIDE ROAD INTERSECTIONS, COMMERCIAL AND PRIVATE DRIVEWAYS, ADJACENT TO RIGHT TURN LANES, LEFT TURN LANES, TURN LANE TAPERS, 25' IN ADVANCE OF BRIDGE DECKS, 25' IN ADVANCE OF BRIDGE APPROACHES, OR 100 FEET IN ADVANCE OF RAILROAD CROSSINGS.

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



ISOMETRIC

PLACEMENT DETAIL FOR RUMBLE STRIP



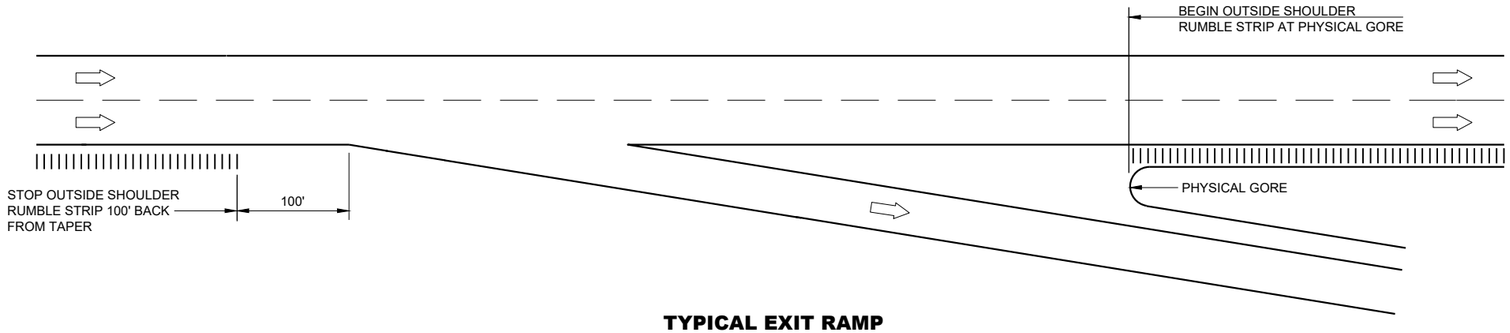
SECTION VIEW

TYPICAL SHOULDER RUMBLE STRIPS
(ONE ROADWAY IS SHOWN)

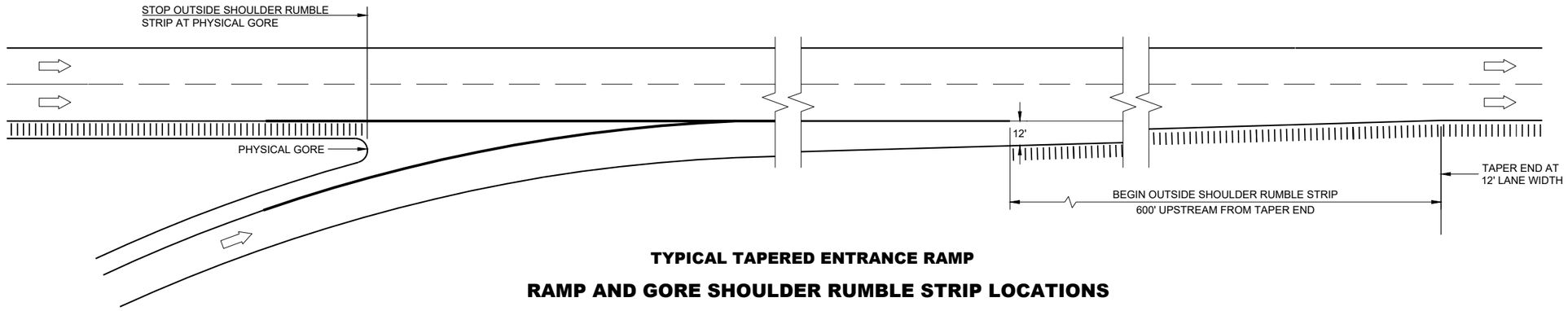
SHOULDER RUMBLE STRIPS, DIVIDED ROADWAY

SDD 13A05-06a

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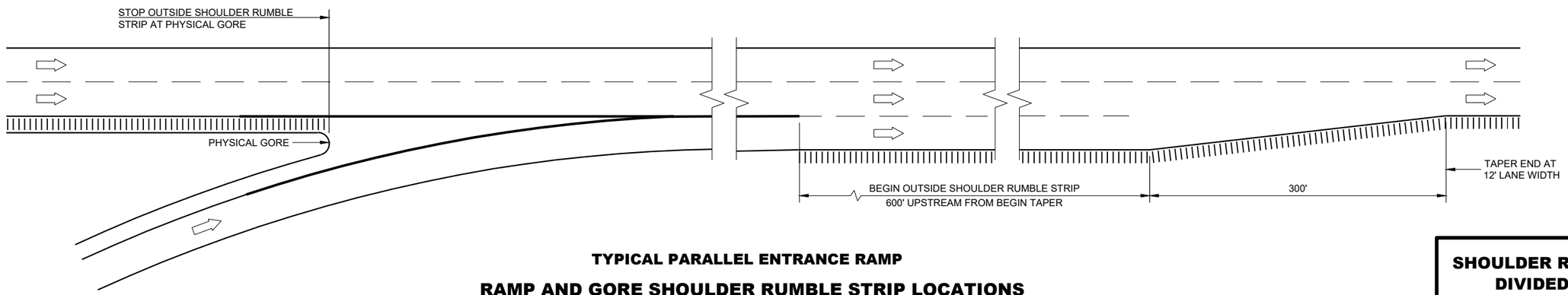


TYPICAL EXIT RAMP



TYPICAL TAPERED ENTRANCE RAMP

RAMP AND GORE SHOULDER RUMBLE STRIP LOCATIONS



TYPICAL PARALLEL ENTRANCE RAMP

RAMP AND GORE SHOULDER RUMBLE STRIP LOCATIONS

GENERAL NOTES

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

RUMBLE STRIPS ON EXPRESSWAYS:
DO NOT INSTALL SHOULDER RUMBLE STRIPS ACROSS SIDE ROAD INTERSECTIONS, COMMERCIALAND PRIVATE DRIVEWAYS, ADJACENT TO RIGHT TURN LANES, LEFT TURN LANES, TURN LANE TAPERS, 25' IN ADVANCE OF BRIDGE DECKS, 25' IN ADVANCE OF BRIDGE APPROACHES, OR 100 FEET IN ADVANCE OF RAILROAD CROSSINGS.

LEGEND

⇨ DIRECTION OF TRAFFIC

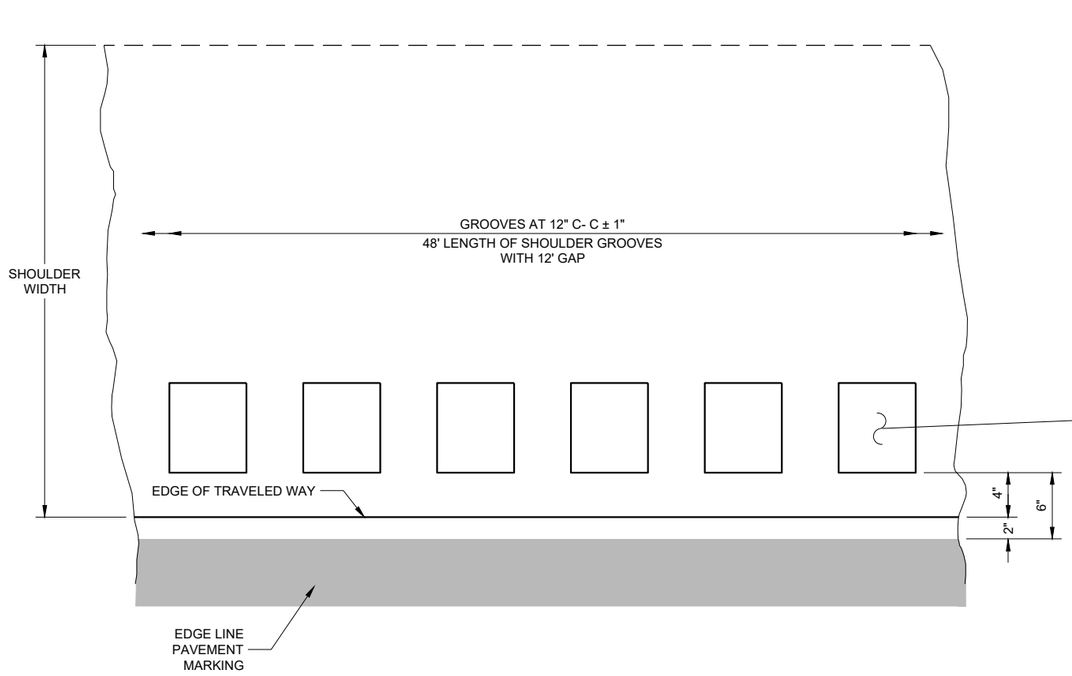
SHOULDER RUMBLE STRIPS, DIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

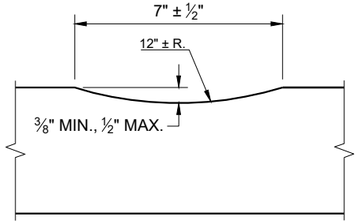
APPROVED
May 2023 — DATE
/S/ Rodney Taylor — ROADWAY DESIGN STANDARDS UNIT SUPERVISOR
FHWA

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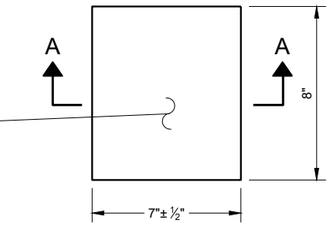
SDD 13A05-06b



PLAN DETAIL VIEW
SHOULDER WITH GROOVES



SECTION A - A

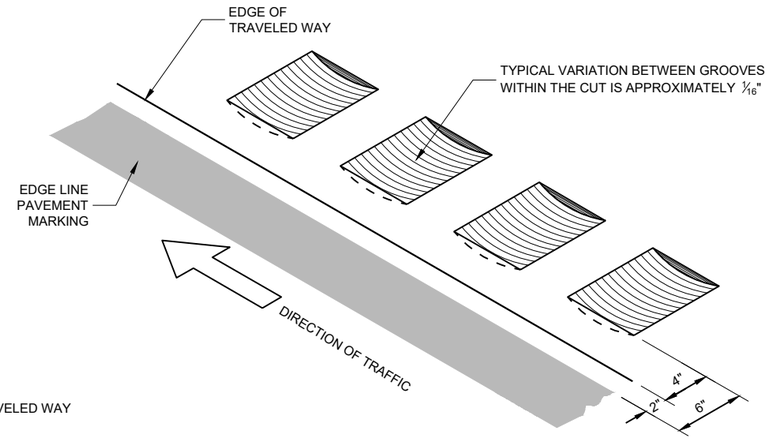


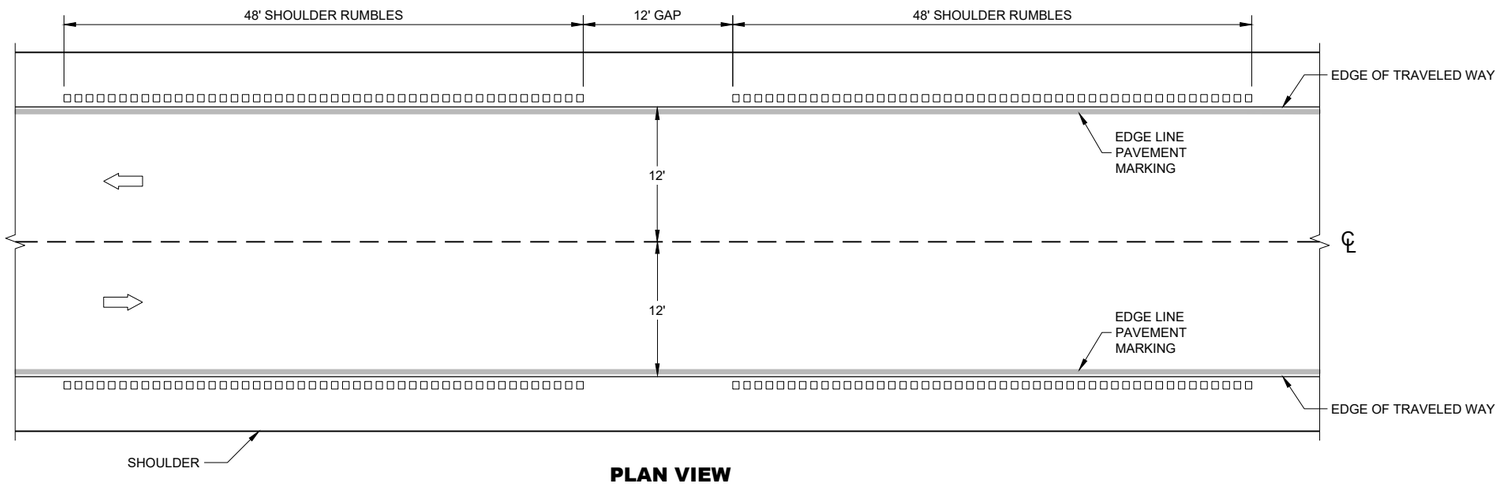
PLAN VIEW
(SINGLE GROOVE)

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

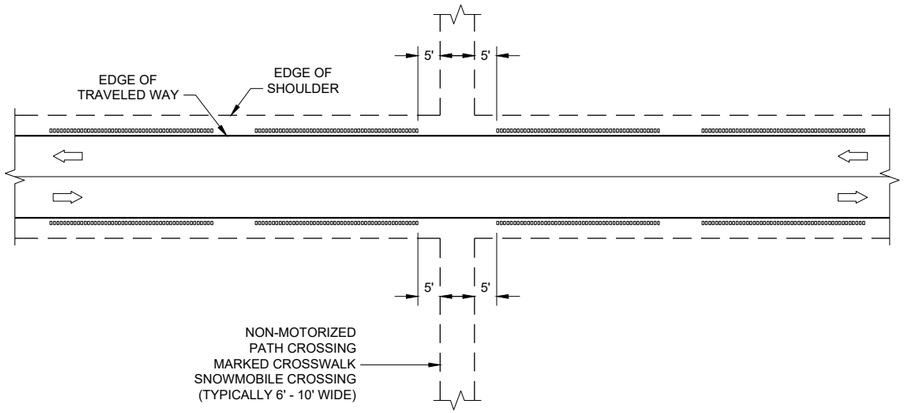
SHOULDER RUMBLE STRIPS - ASPHALT

SHOULDER RUMBLE STRIPS ASPHALT

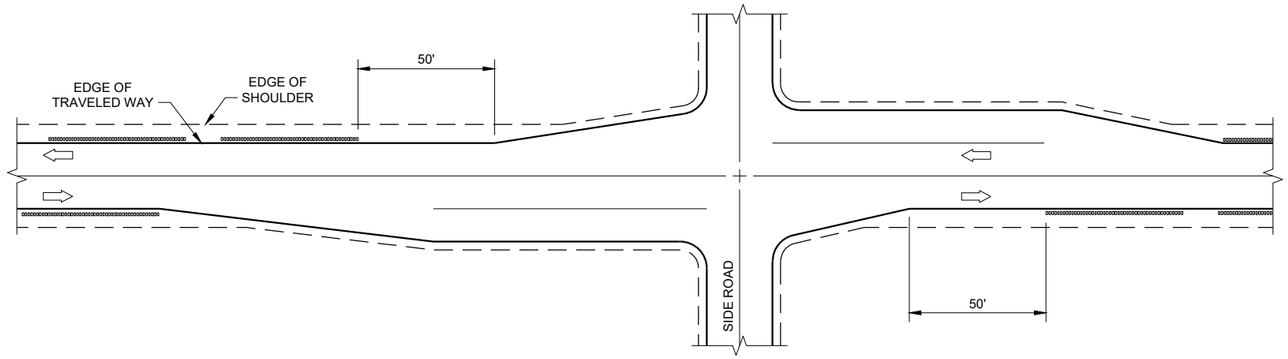
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA

6

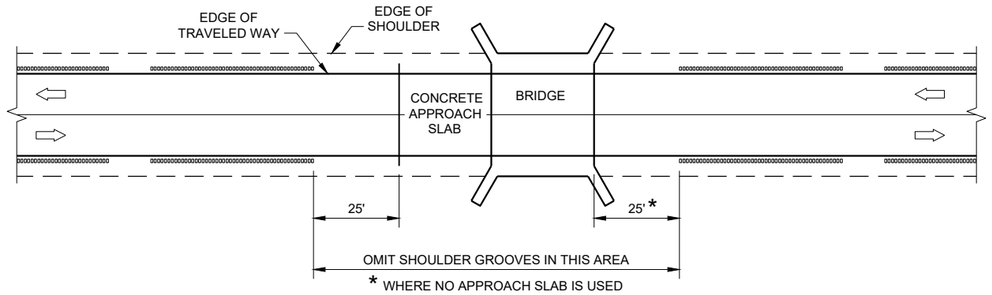
SDD 13A10 - 03a



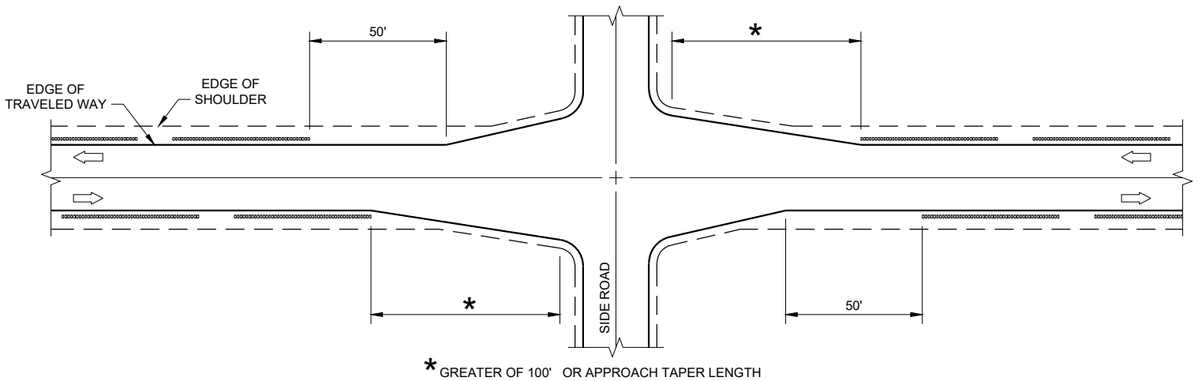
GROOVES AT MISCELLANEOUS CROSSINGS



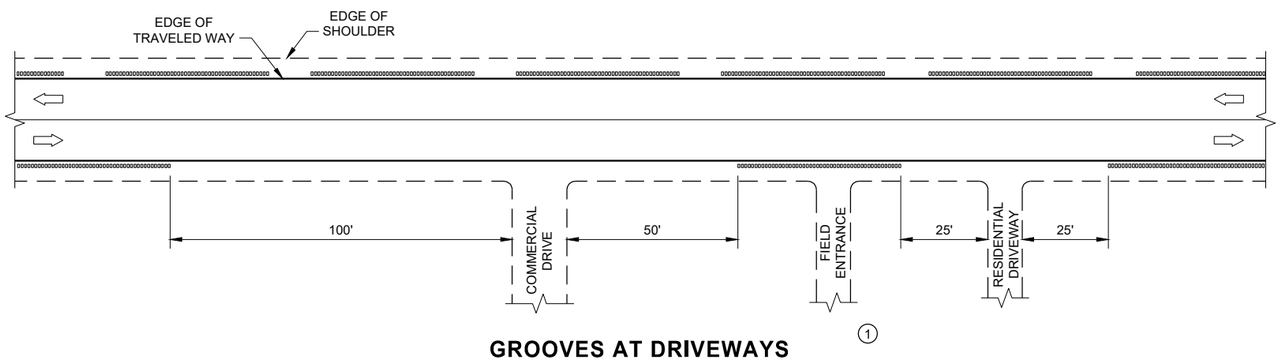
GROOVES AT RIGHT TURN LANE



GROOVES AT BRIDGES



GROOVES AT INTERSECTIONS WITH APPROACH TAPER



GROOVES AT DRIVEWAYS ①

GENERAL NOTES

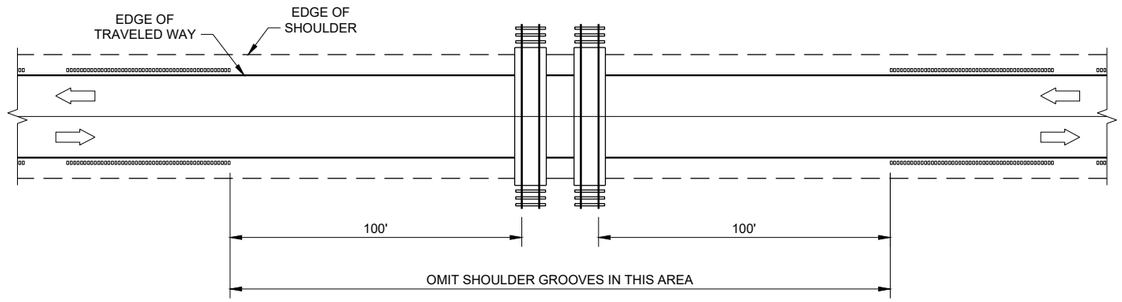
① SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.

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

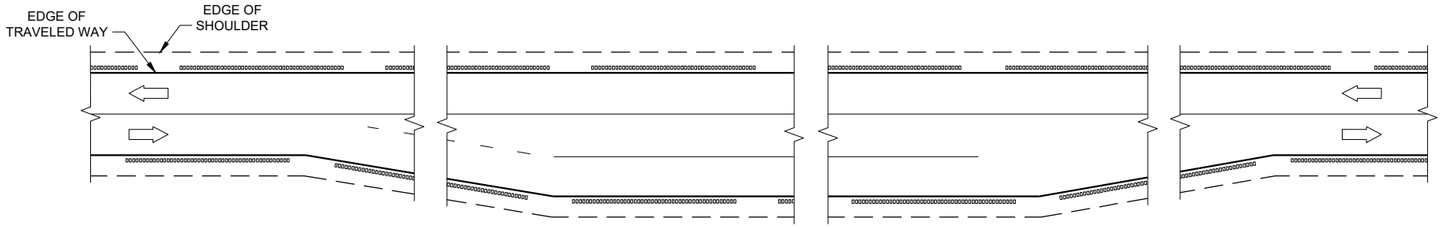
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA

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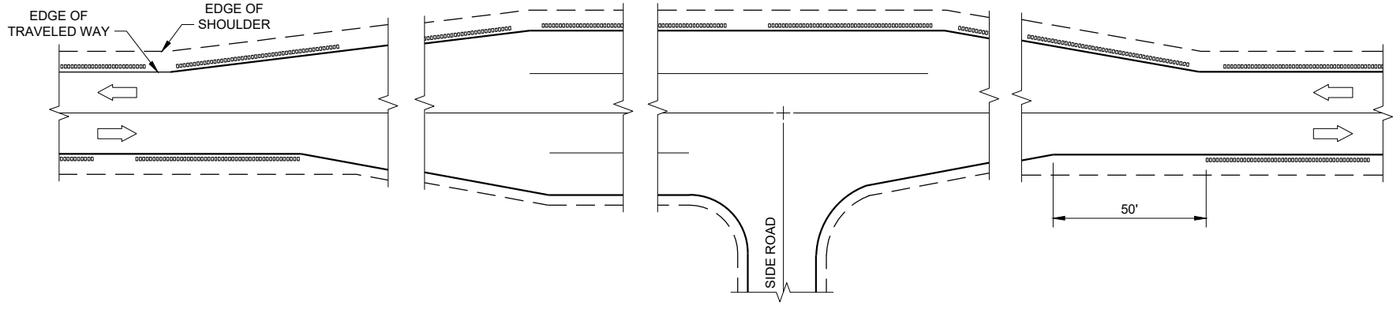
SDD 13A10 - 03g



GROOVES AT RAILROADS



GROOVES AT PASSING AND CLIMBING LANES



GROOVES AT BYPASS LANES

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SDD 13A10 - 03h

SDD13A10 - 03h

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

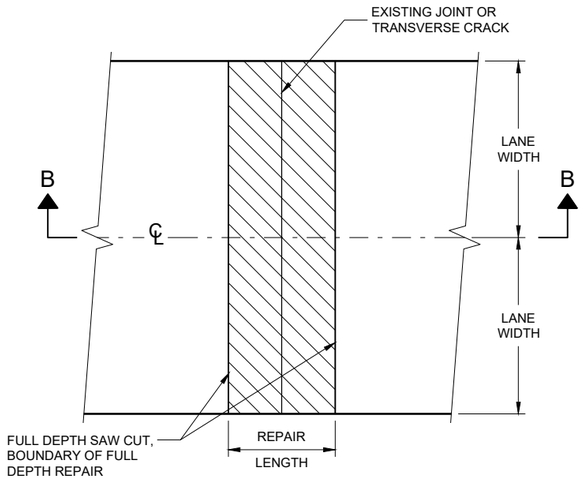
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

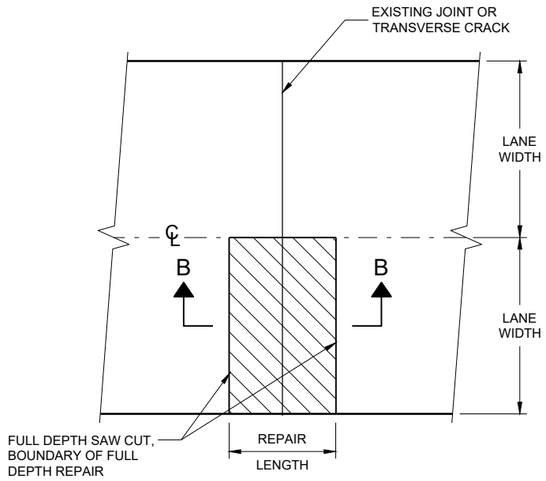
May 2023
DATE

/S/ John Jenkins
ROADWAY STANDARDS DEVE ENGINEER

FHWA



PLAN VIEW
DOUBLE LANE REPAIR



PLAN VIEW
SINGLE LANE REPAIR

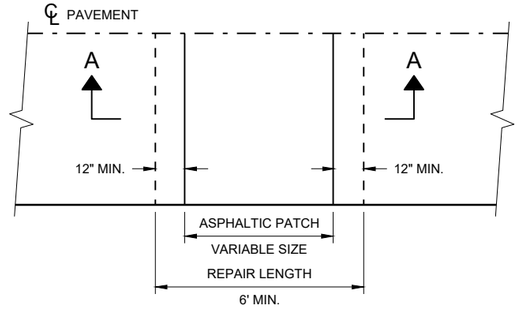
GENERAL NOTES

SAW CUT, DRILL, AND LIFT OUT EXISTING CONCRETE PAVEMENT WITHIN THE BOUNDARIES OF CONCRETE REPAIR AREAS. THE CONTRACTOR MAY MAKE ADDITIONAL SAW CUTS INSIDE THE REPAIR LIMITS TO REDUCE WEIGHT AND SIZE OF CONCRETE PIECES.

PROVIDE A 6 FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREA TO ADJACENT TRANSVERSE JOINT OR CRACK.

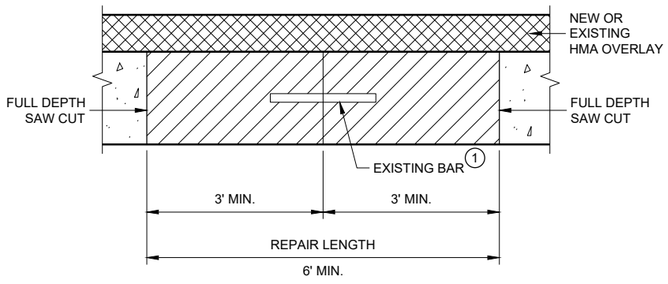
THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NON-DOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

(1) DOWEL BARS MAY NOT BE PRESENT.

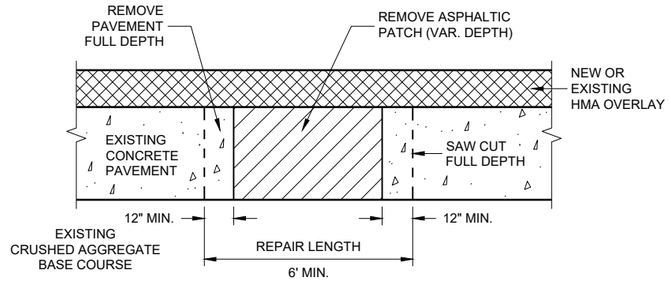


PLAN VIEW

FULL DEPTH CONCRETE PAVEMENT REMOVAL



SECTION B - B
CONCRETE REMOVAL



SECTION A - A

HMA PATCH REMOVAL

BASE PATCHING CONCRETE

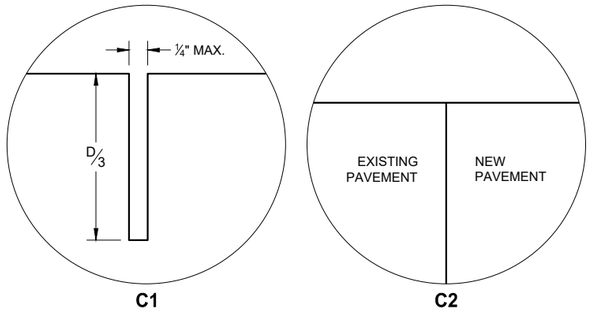
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA 154

6

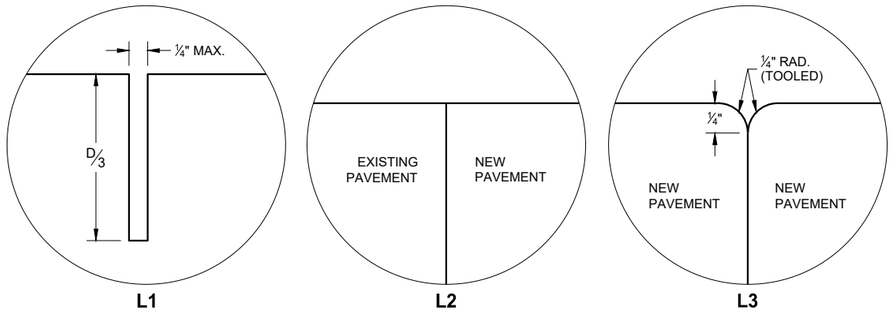
SDD 13C14 - 07a

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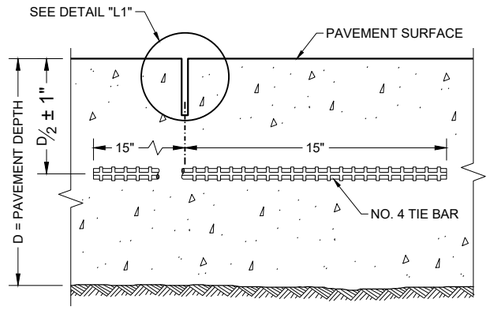
SDD 13C14 - 07a



TRANSVERSE JOINTS

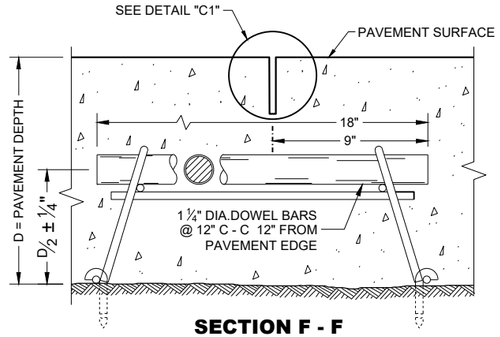


LONGITUDINAL JOINTS



SECTION C - C

SAWED LONGITUDINAL JOINT



SECTION F - F

CONTRACTION JOINT

GENERAL NOTES

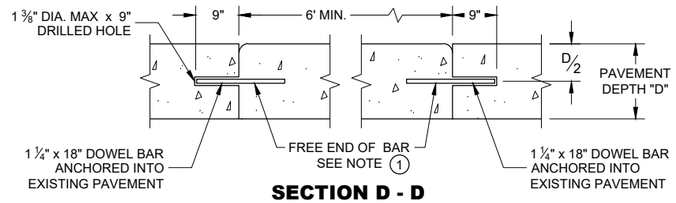
INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

CONCRETE BASE PATCHES OF EXISTING NON-DOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.

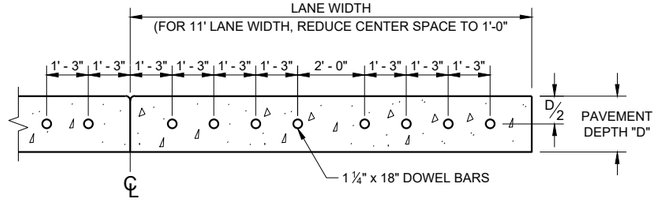
ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM ALL TRANSVERSE JOINTS OR EDGES OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT O EDGE.

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

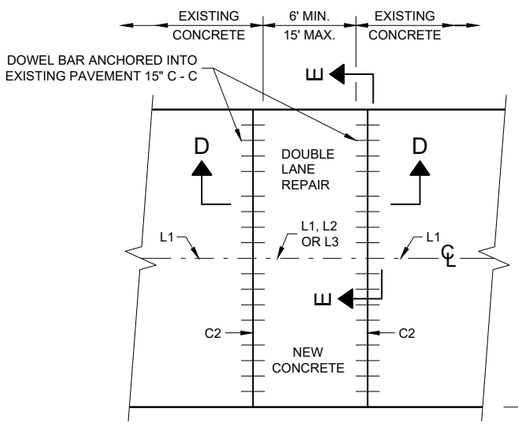


SECTION D - D



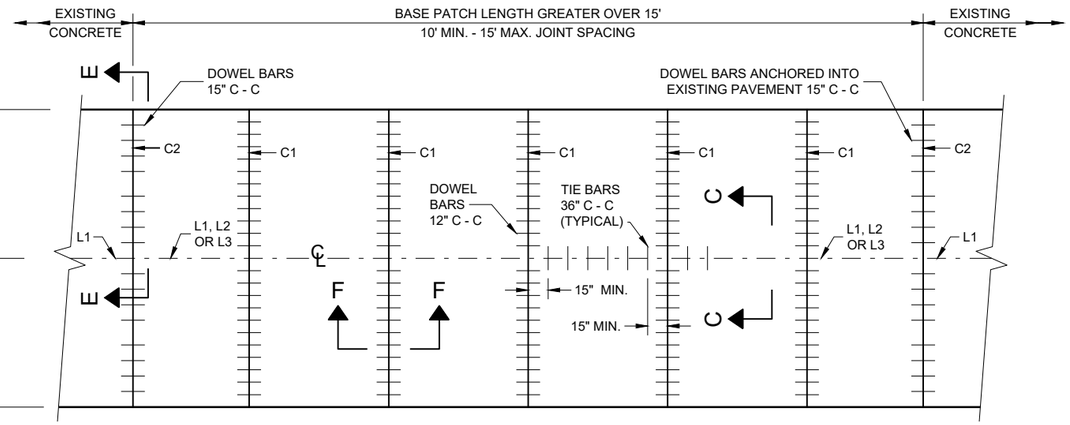
SECTION E - E

SPACING OF DOWEL BARS ANCHORED INTO EXISTING PAVEMENT



PLAN VIEW

MULTILANE CONCRETE BASE PATCH 15' MAXIMUM LENGTH



PLAN VIEW

MULTILANE CONCRETE BASE PATCH GREATER THAN 15' IN LENGTH

BASE PATCHING CONCRETE

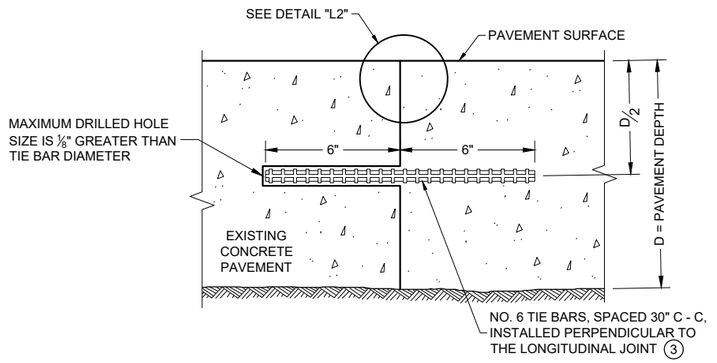
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTAT 155

SDD 13C14 - 07b

SDD 13C14 - 07b

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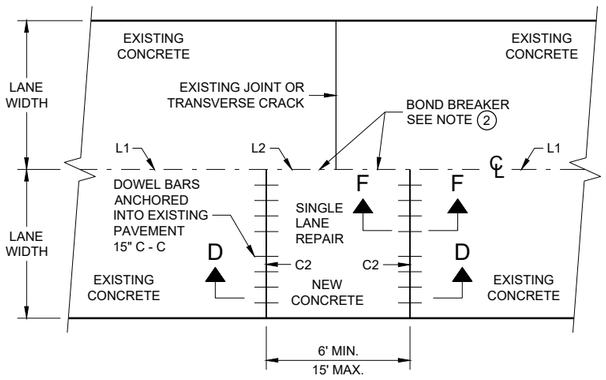


SECTION G - G

TIE BARS ANCHORED INTO EXISTING PAVEMENT

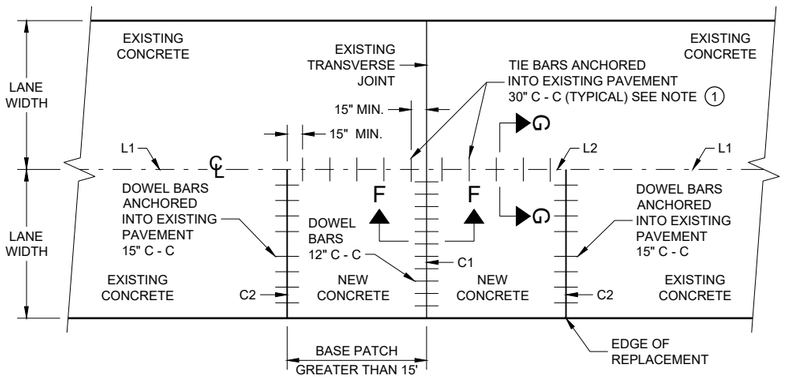
GENERAL NOTES

1. WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, THE CONTRACTOR MAY INSTALL DRILLED TIE BARS ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES IN A HOLE OF SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.
2. USE AN ENGINEER APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE REPAIRS UP TO 15 FEET IN LENGTH.
3. ANCHOR TIE BARS INTO DRILLED HOES WITH AN EPOXY.



PLAN VIEW

SINGLE LANE CONCRETE BASE PATCH
15' MAXIMUM LENGTH



PLAN VIEW

SINGLE LANE CONCRETE BASE PATCH
GREATER THAN 15' LENGTH

BASE PATCHING CONCRETE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018
DATE

/S/ Peter Kemp, P.E.
PAVEMENT SUPERVISO

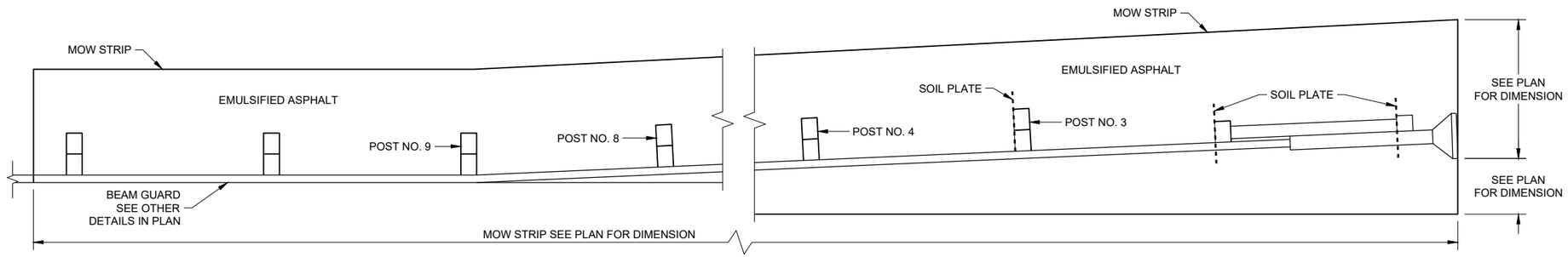
FHWA

6

SDD 13C14 - 07c

6

SDD 13C14 - 07c



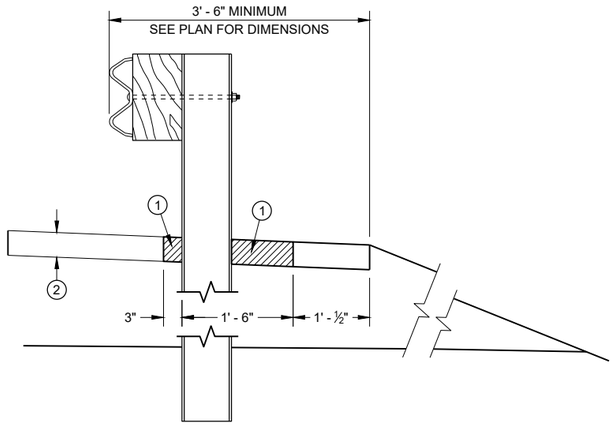
PLAN VIEW

MOW STRIP LAYOUT FOR ENERGY ABSORBING TERMINAL

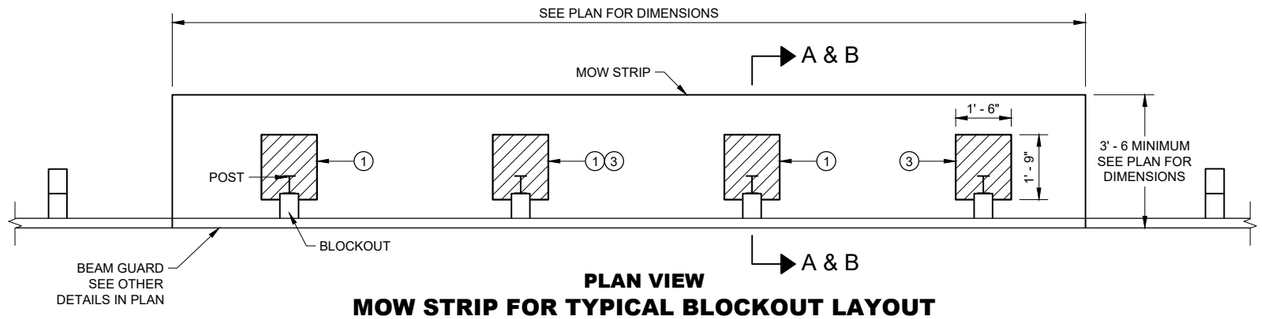
GENERAL NOTES

ONLY USE STEEL POSTS IN CONCRETE AND ASPHALT MOW STRIPS.

1. CONTROLLED LOW-STRENGTH BACKFILL OR EMULSIFIED ASPHALT.
2. DEPTH OF MOW STRIP:
   ASPHALT - 4"
   CONCRETE - 4"
   EMULSIFIED ASPHALT - 1" OR LESS
3. FOR EMULSIFIED ASPHALT, MOW STRIP STRIP LEAVE OUTS NOT REQUIRED. (TYPICAL FOR ALL POSTS)

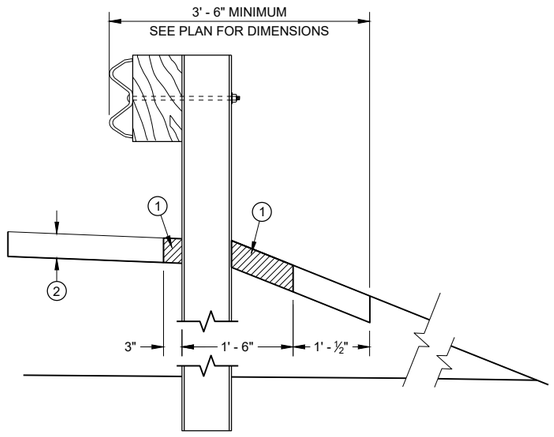


SECTION A - A

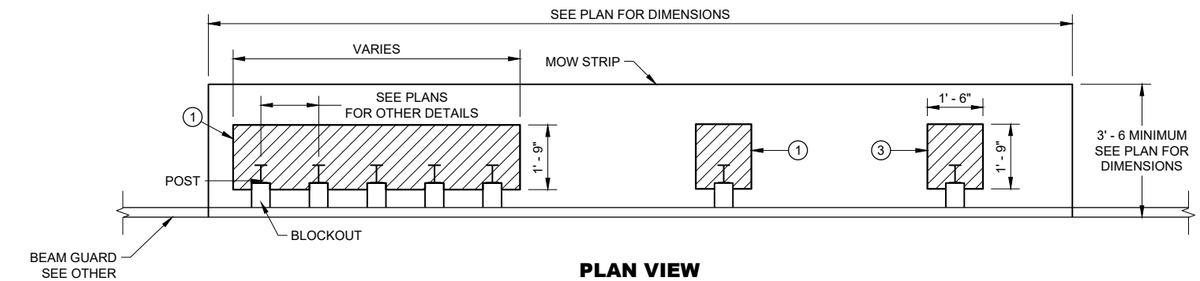


PLAN VIEW

MOW STRIP FOR TYPICAL BLOCKOUT LAYOUT

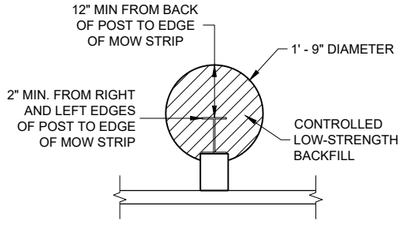


SECTION B - B

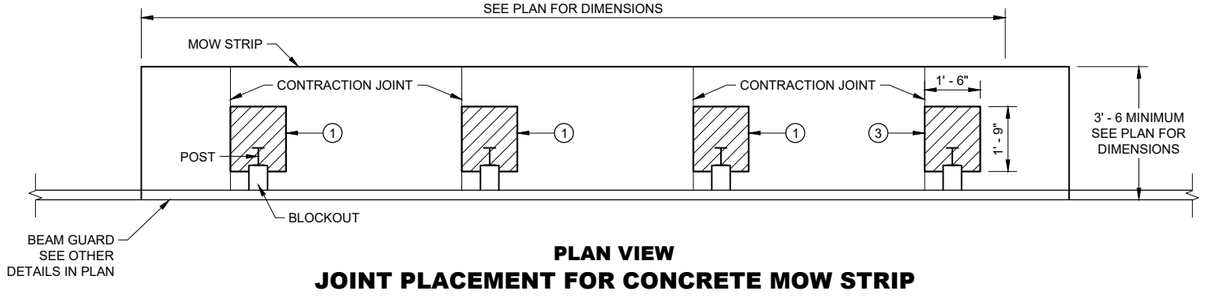


PLAN VIEW

MOW STRIP FOR TIGHT SPACING LAYOUT



ALTERNATIVE HMA MOW STRIP DESIGN



PLAN VIEW

JOINT PLACEMENT FOR CONCRETE MOW STRIP

GUARDRAIL MOW STRIP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 14B28 - 04a

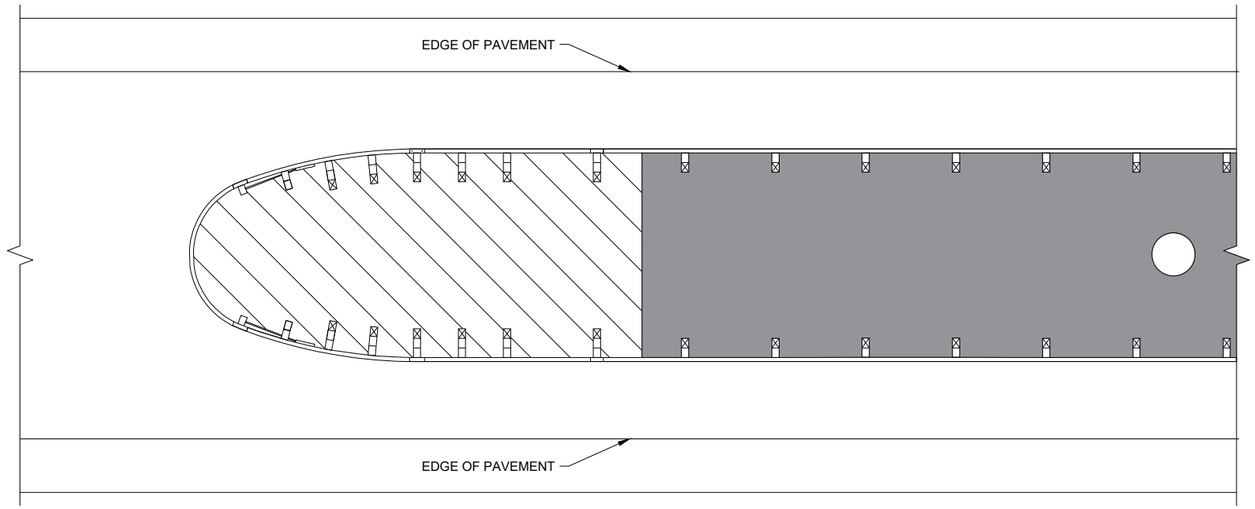
LEGEND

CONCRETE, ASPHALT, OR EMULSIFIED ASPHALT MOW STRIP (SEE OTHER DETAILS)

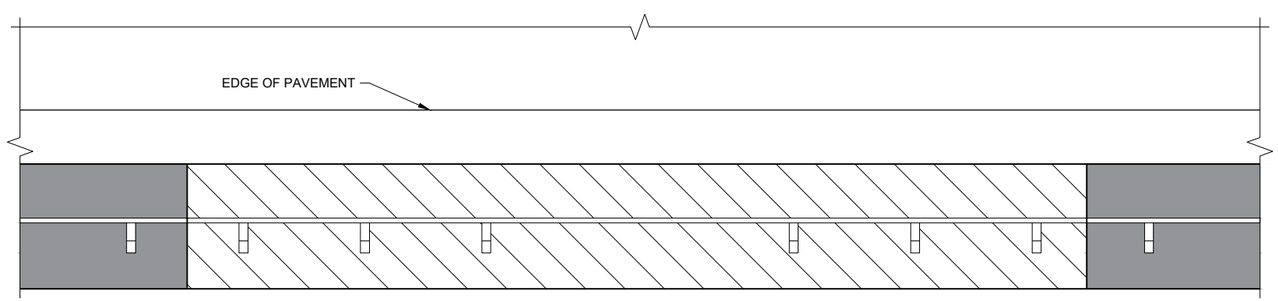
EMULSIFIED ASPHALT MOW STRIP (SEE OTHER DETAILS)

GENERAL NOTES

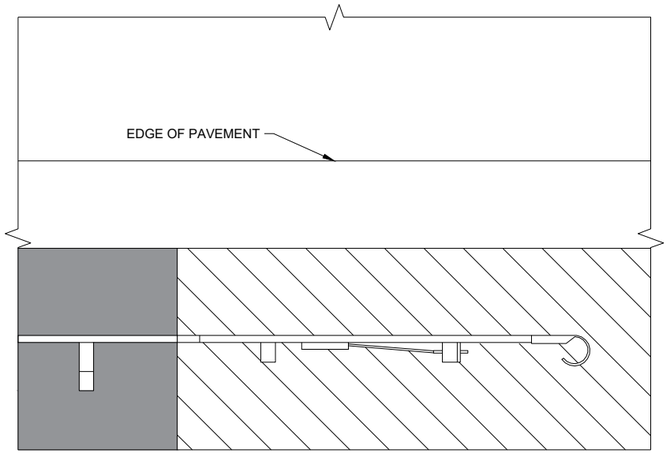
EXISTING THRIE BEAM BULLNOSES MAY HAVE WOOD POSTS. NEW THRIE BEAM BULLNOSE WILL HAVE STEEL POSTS.



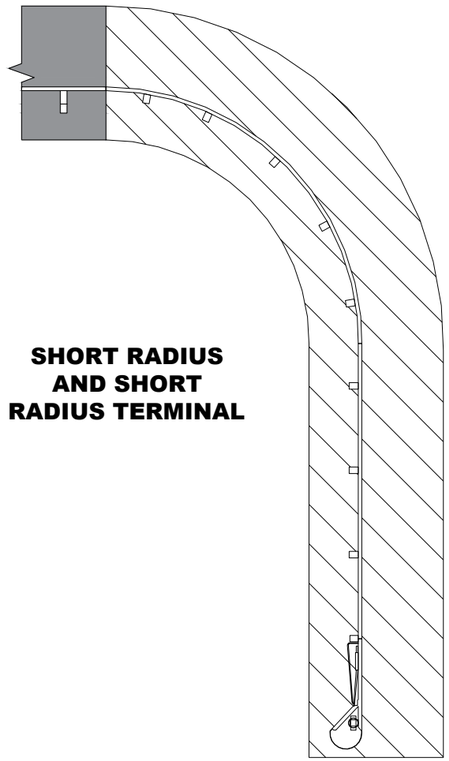
THRIE BEAM BULLNOSE



LONG - SPAN



TYPE 2 TERMINAL



SHORT RADIUS AND SHORT RADIUS TERMINAL

GUARDRAIL MOW STRIP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
ENGINEER

FHWA

6
SDD 14B28 - 04b

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

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

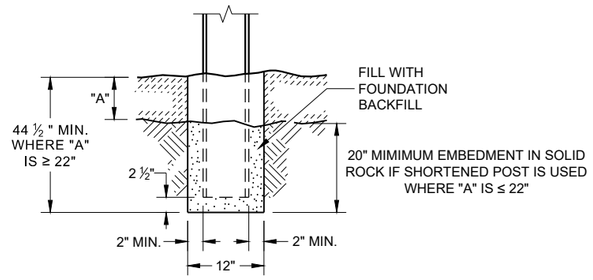
3. IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

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

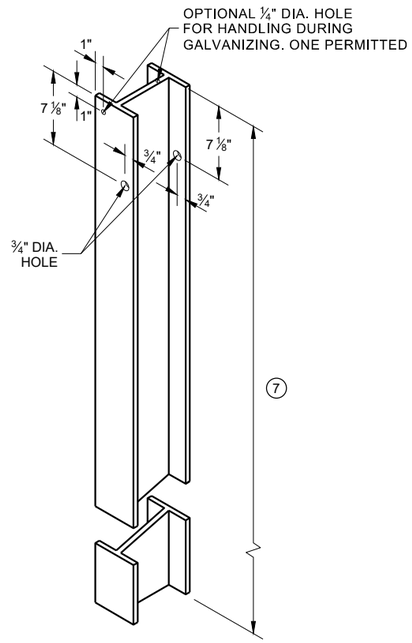
5. FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ±1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 ¾" TO 32".

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

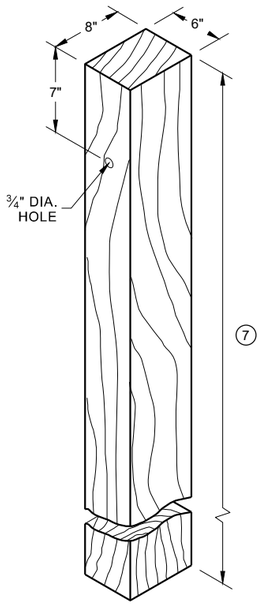
7. TOTAL POST LENGTH FOR TYPE K IS 7' - 0".
TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' - 0".



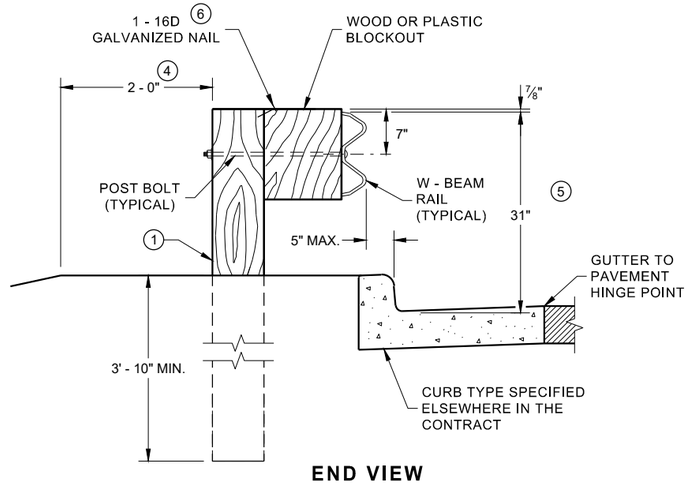
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



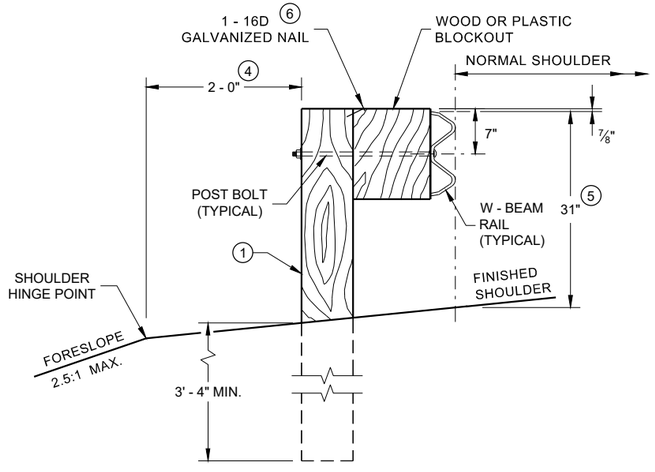
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



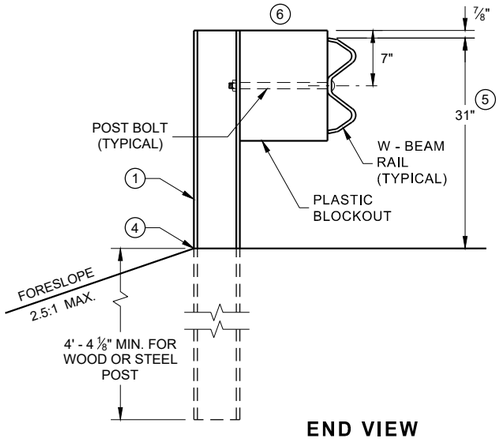
WOOD POST (6" X 8") NOMINAL (1)



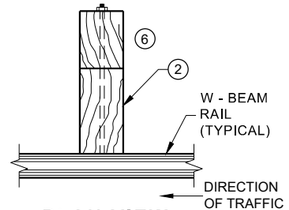
END VIEW
LOCATED ALONG A CURBED ROADWAY



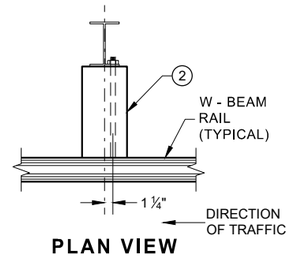
END VIEW
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



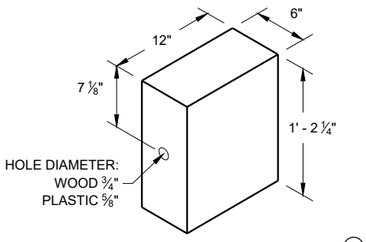
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, PLASTIC BLOCKOUT & BEAM



WOOD OR PLASTIC BLOCKOUT (2)

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

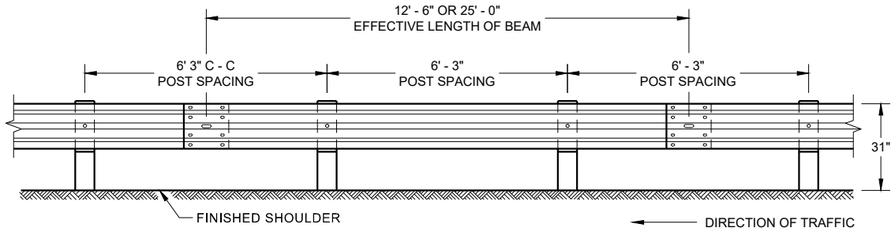
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

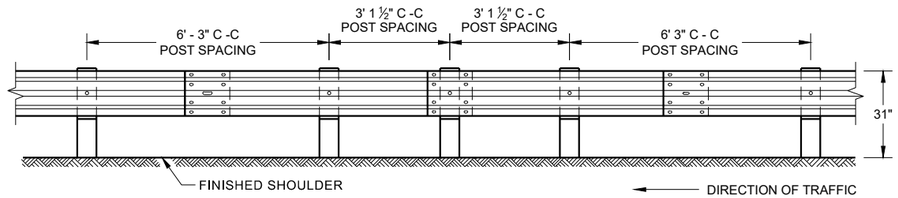
SDD 14B42 - 07a

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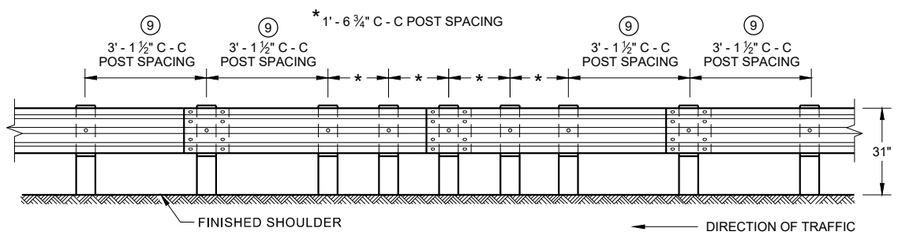
SDD 14B42 - 07a



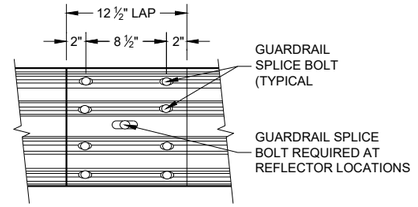
FRONT VIEW
POST SPACING STANDARD INSTALLATION



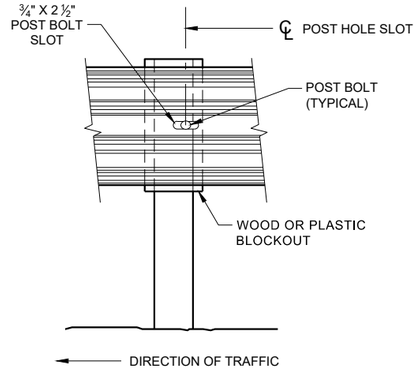
FRONT VIEW
HALF POST SPACING (HS) AND
HALF POST SPACING WITH LONGER POSTS (K)



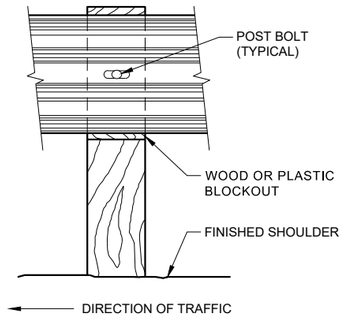
FRONT VIEW
QUARTER POST SPACING (QS)



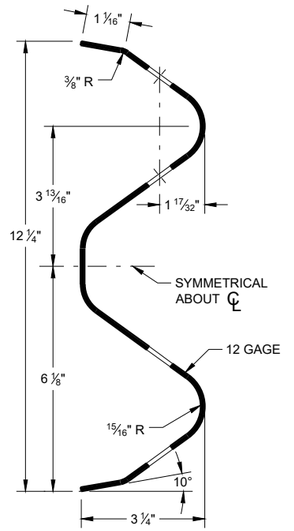
FRONT VIEW
MID-SPAN BEAM SPLICE



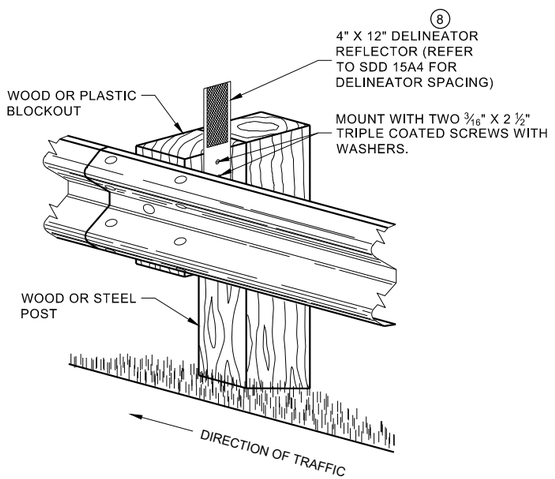
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

GENERAL NOTES

⑧ DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

⑨ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

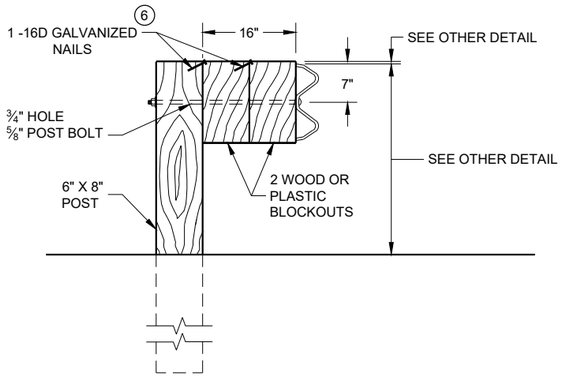
POST BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND ⅝" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

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

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
SDD 14B42 - 07b

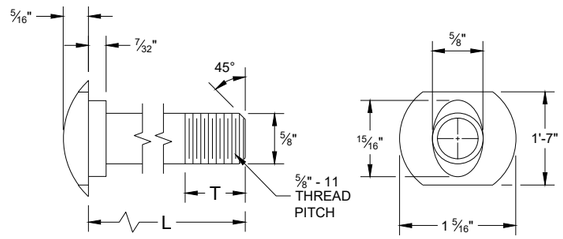


DETAIL FOR 16" BLOCKOUT DEPTH

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

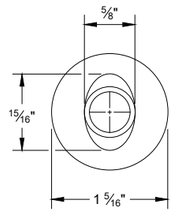
NOTE:

1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 3⁄16".
2. IF THE BOLT EXTENDS MORE THAN ¼" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

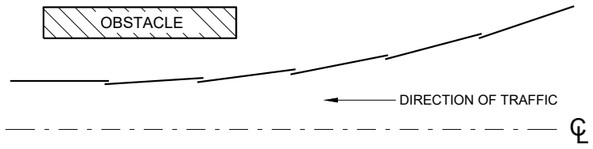


POST BOLT TABLE

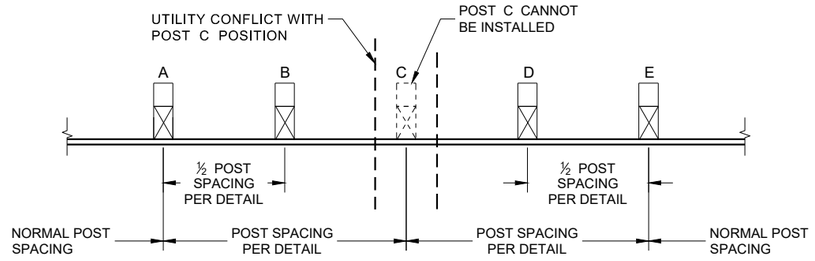
L	T (MIN.)
1 ¼"	1 ⅛"
2"	1 ¾"
10"	4"
14"	4 1⁄16"
18"	4"
21"	4 1⁄16"
25"	4"



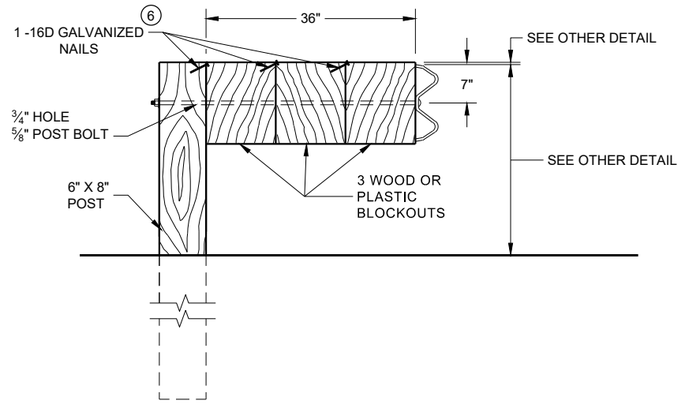
ALTERNATE BOLT HEAD



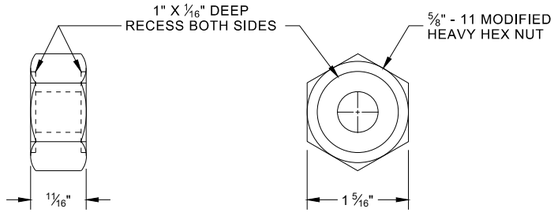
PLAN VIEW
BEAM LAPPING DETAIL



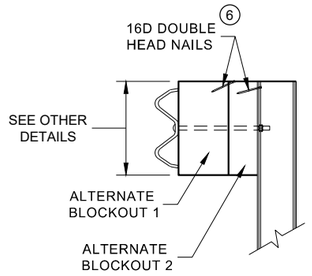
POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



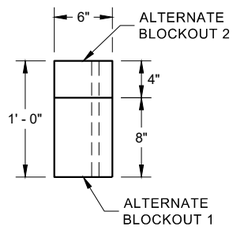
DETAIL FOR 36" BLOCKOUT DEPTH



POST BOLT, SPLICE BOLT AND RECESS NUT



SIDE VIEW



PLAN VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

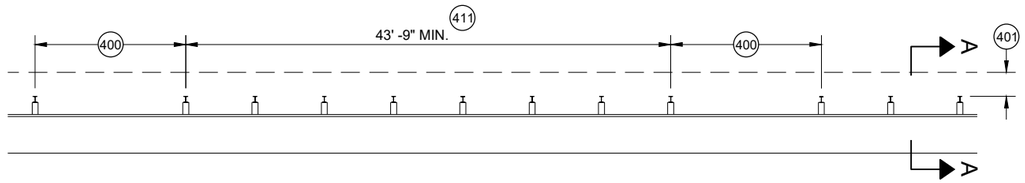
NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

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

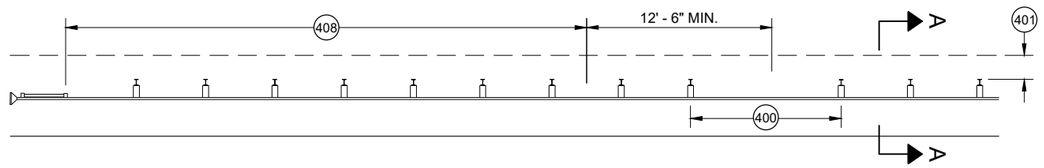
(6) WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

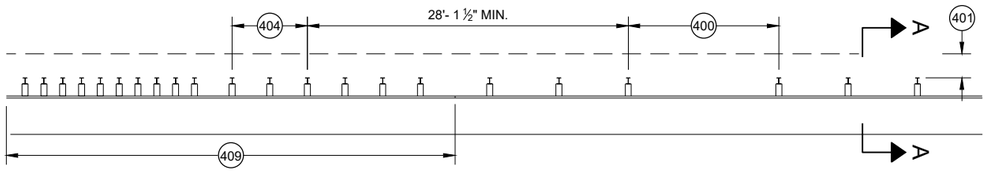
6
SDD 14B42 - 07c



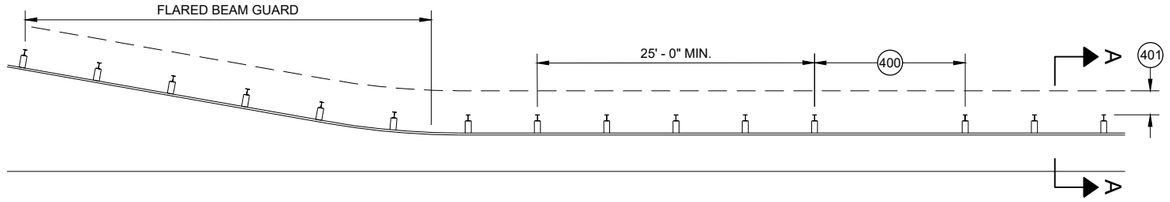
MISSING POST IN MGS GUARDRAIL



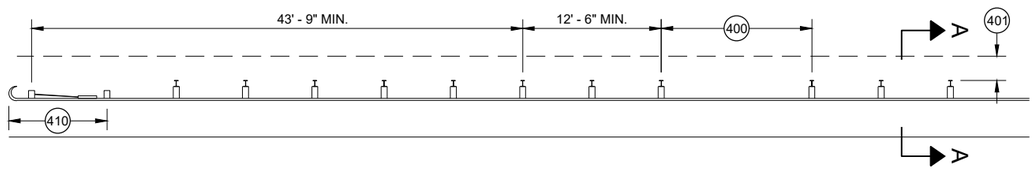
MISSING POST IN MGS GUARDRAIL NEAR EAT



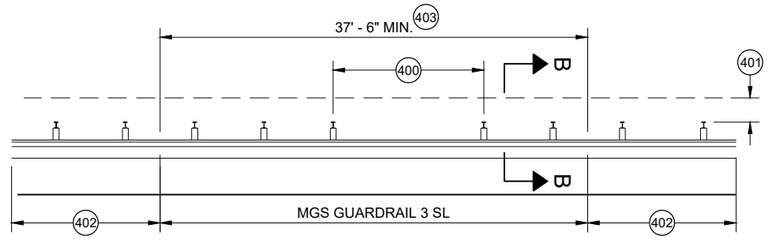
MISSING POST IN MGS GUARDRAIL NEAR AN APPROACH TRANSITION



MISSING POST IN MGS GUARDRAIL NEAR FLARED BEAM GUARD

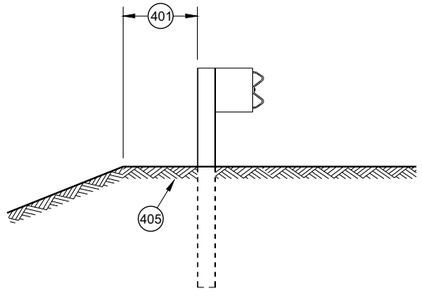


MISSING POST IN MGS GUARDRAIL NEAR A TYPE 2 END TERMINAL

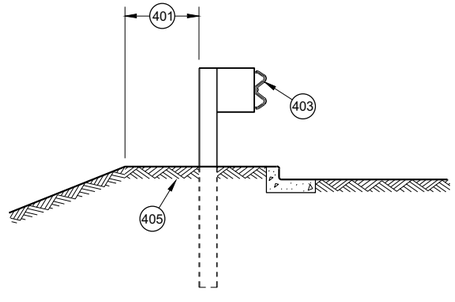


MISSING POST IN SHORT SPAN MGS GUARDRAIL NEAR CURB (SL) 407

(400) MAX SPAN 12' - 6"
(401) 2' MIN.
(402) MGS GUARDRAIL 3
(403) NESTING BEAM GUARD
(404) ASYMMETRIC TRANSITION
(405) SOIL WELL DRAINED AND COMPACTED
(406) SEE OTHER DRAWINGS IN THIS SDD
(407) SEE OTHER DRAWINGS FOR MIN. SPACING BETWEEN SPANS
(408) SEE SDD 14B44
(409) SEE SDD 14B45
(410) SEE SDD 14B47
(411) MINIMUM DISTANCE BETWEEN MISSING POST SPANS.



SECTION A - A 406



SECTION B - B 406

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2021
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
UNIT SUPERVISOR

FHWA

6

SDD 14B42 - 07d

GENERAL NOTES

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

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

(C) DIFFERENT MANUFACTURERS REQUIRE DIFFERENT PERFORATED W - BEAM RAIL END PANELS. SEE MANUFACTURER'S INFORMATION.

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

(E) HARDWARE MAY VARY BETWEEN MANUFACTURER. SEE MANUFACTURER'S DRAWING FOR INFORMATION.

DIMENSIONS MAY VARY, MANUFACTURER'S INFORMATION.

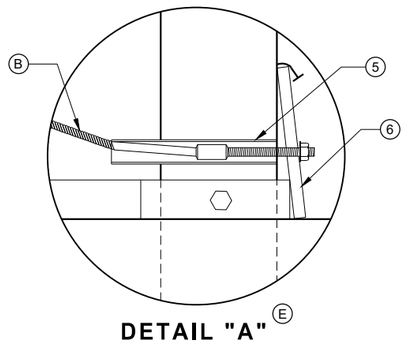
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

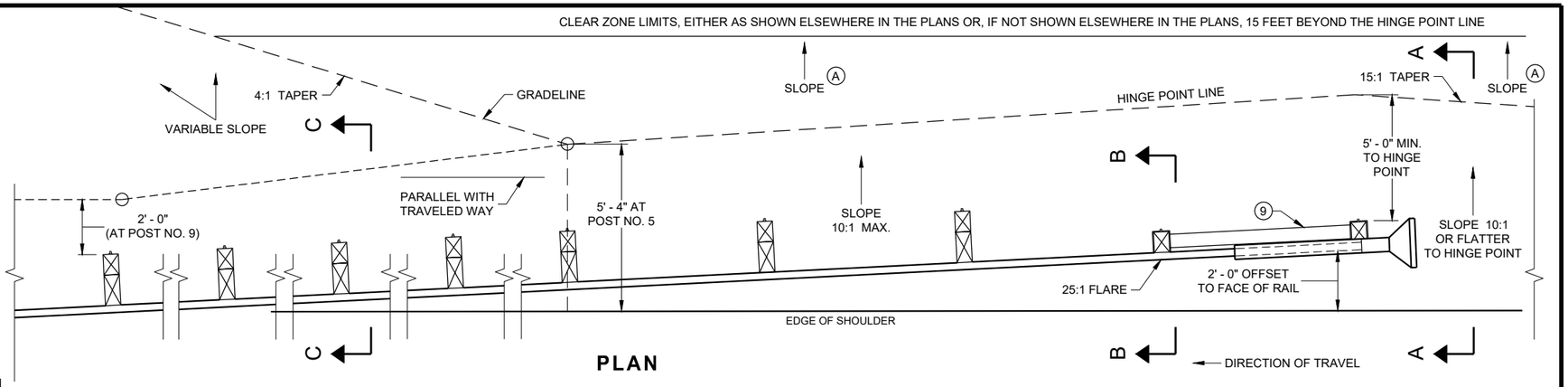
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

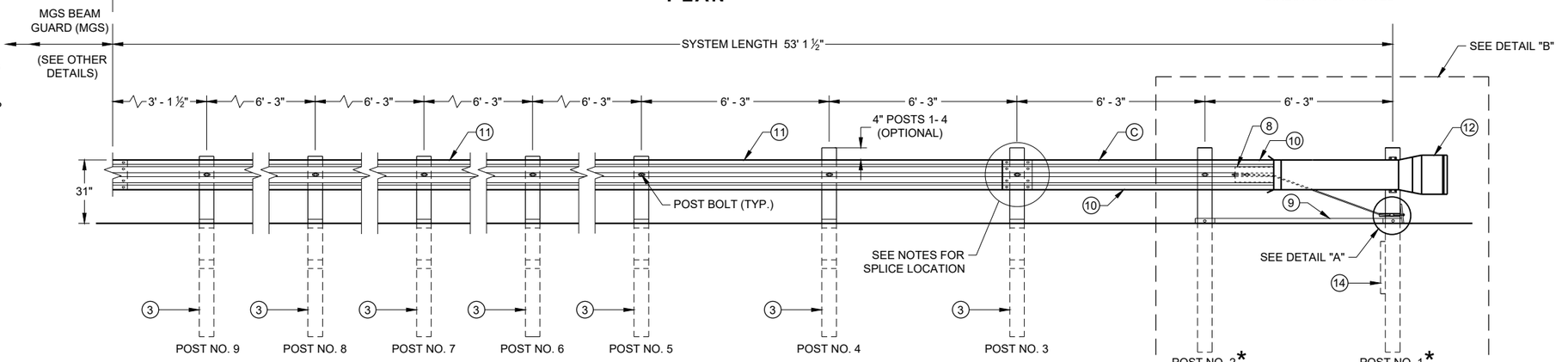
SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

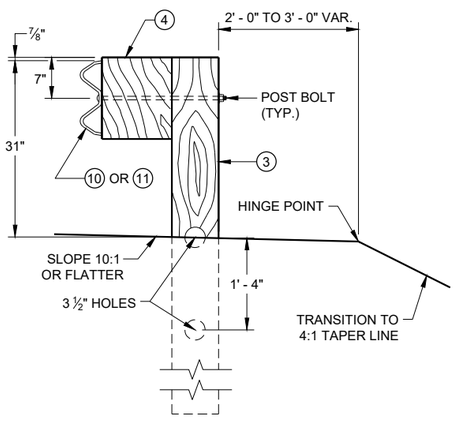
THE CENTER OF THE UPPER 3 ½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST.



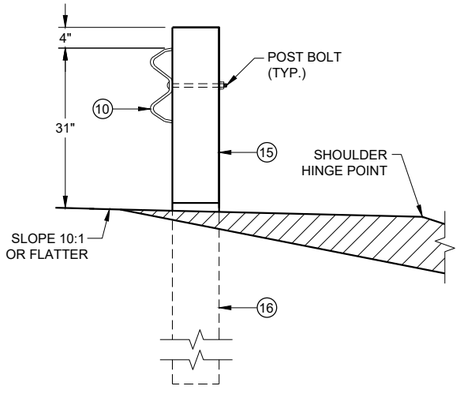
DETAIL "A" (E)



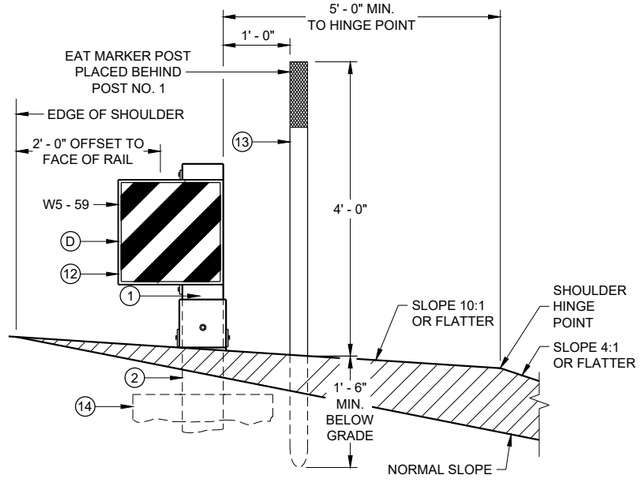




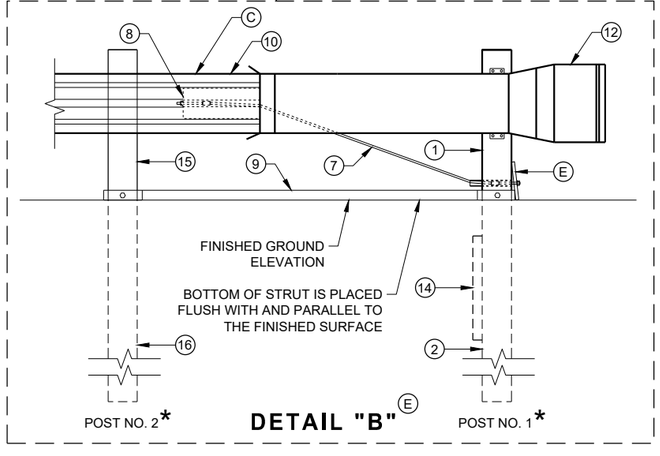
SECTION C - C
TYPICAL AT POST NOS. 3 - 9



SECTION B - B
TYPICAL AT POST NO. 2*



SECTION A - A
TYPICAL AT POST NO. 1*

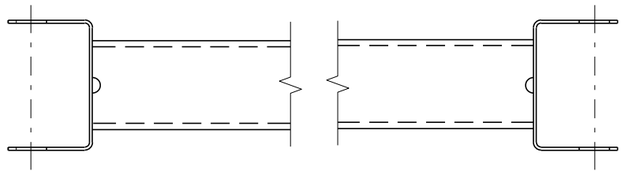


MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B44 - 04a

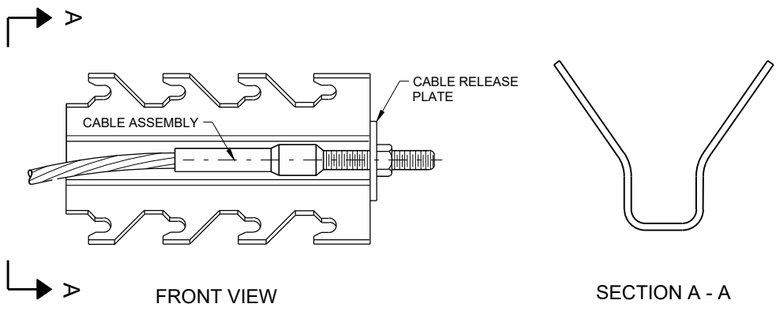
SDD 14B44 - 04a



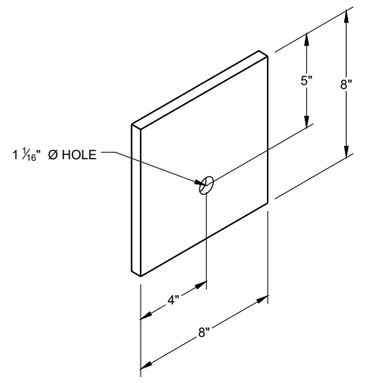
GENERIC GROUND STRUT ⑨ Ⓔ

BILL OF MATERIALS

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



GENERIC ANCHOR CABLE BOX ⑧ Ⓔ



BEARING PLATE ⑥ Ⓔ

6

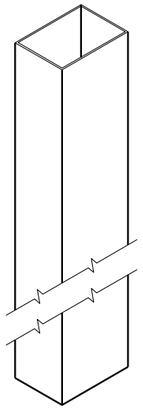
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SDD 14B44 - 04b

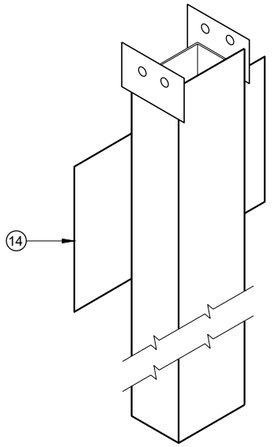
SDD 14B44 - 04b

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

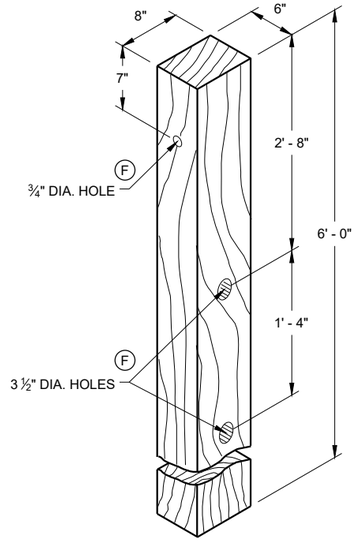
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



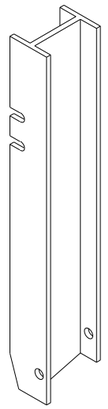
UPPER POST NO. 1 (1) (E)



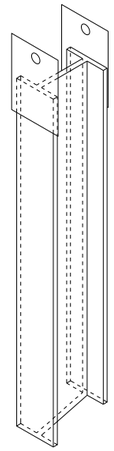
LOWER POST NO. 1 (2) (E)



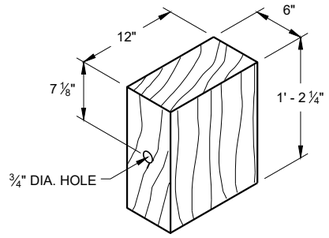
WOOD CRT POST (3) (E)
POSTS NUMBER 3-9



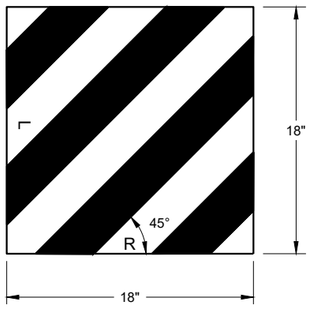
UPPER POST NO. 2 (15) (E)



LOWER POST NO. 2 (16) (E)

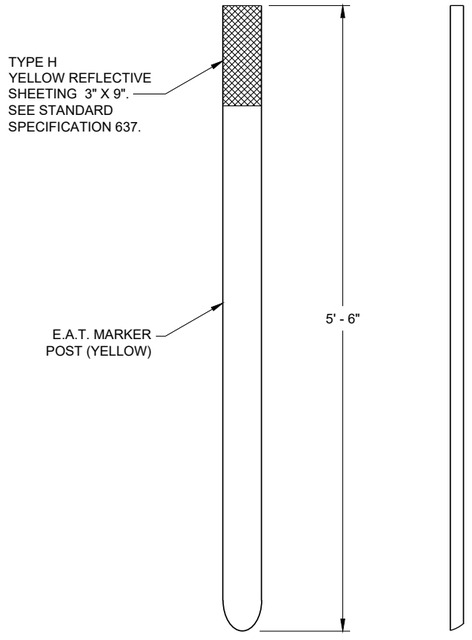


WOOD BLOCKOUT (4)
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



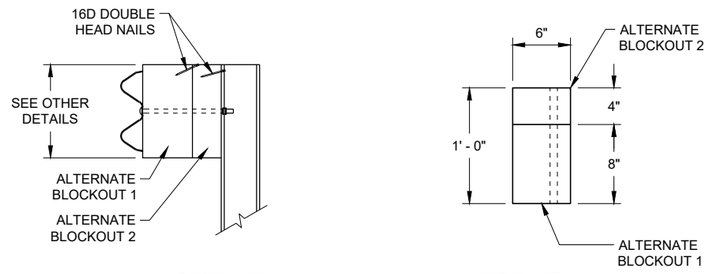
W5 - 59

REFLECTIVE SHEETING DETAIL (E)



FRONT VIEW SIDE VIEW

E.A.T. MARKER POST (13)



SIDE VIEW TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

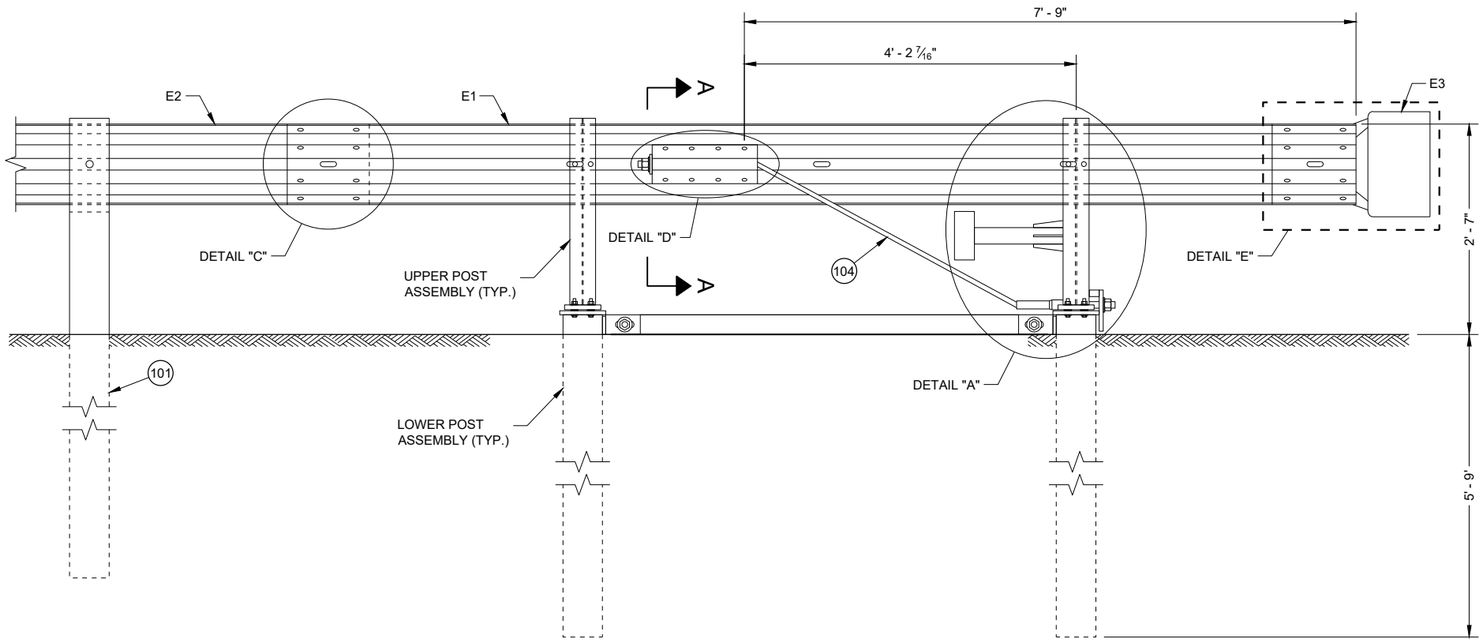
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE UNIT SUPERVISOR

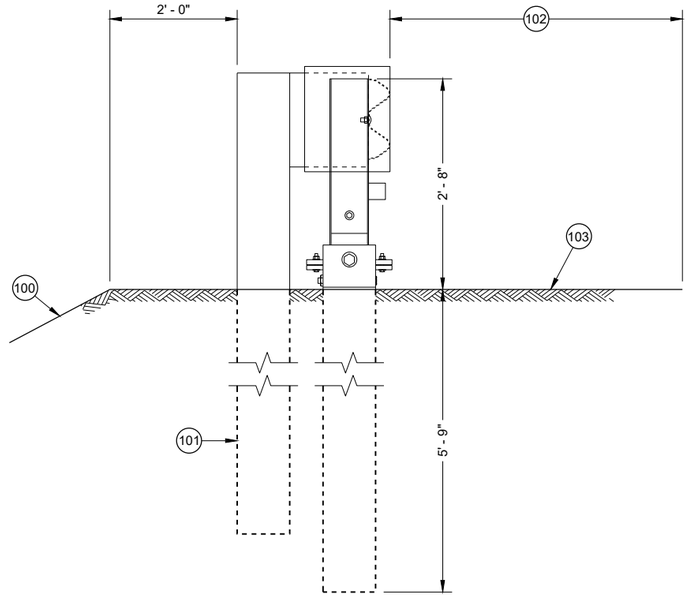
FHWA

6

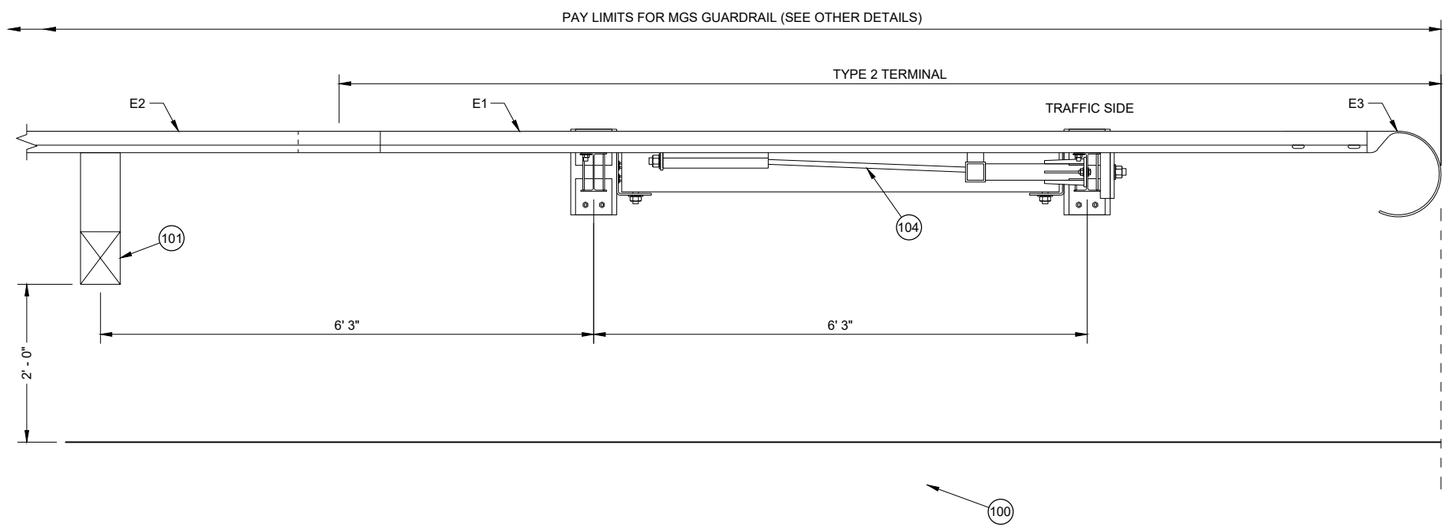
SDD 14B44 - 04c



BACK VIEW
TYPE 2 TERMINAL



SIDE VIEW
TYPE 2 TERMINAL



TOP VIEW
TYPE 2 TERMINAL

GENERAL NOTES

(100) MAXIMUM SLOPE IS 2.5:1.

(101) SEE SDD 14B42 FOR MORE INFORMATION.

(102) SHOULDER

(103) MAXIMUM SLOPE IS 10:1.

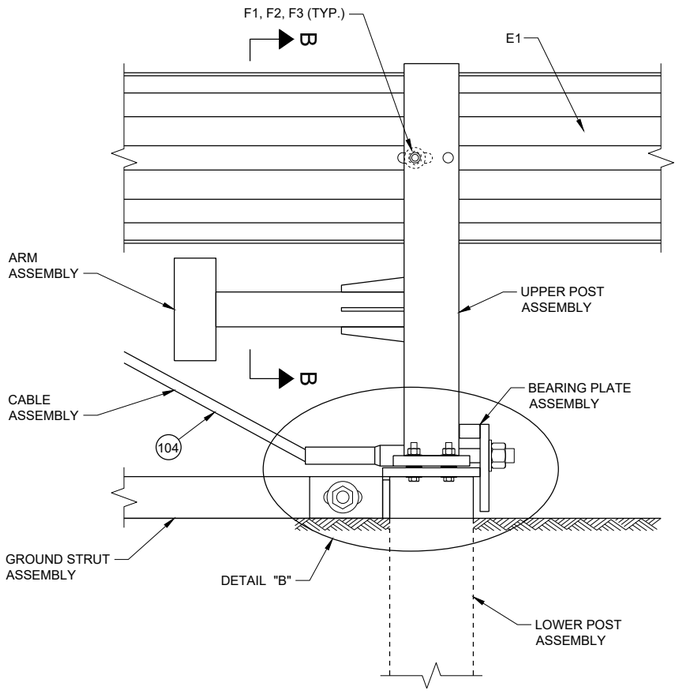
(104) AFTER ASSEMBLY, CABLE IS TO BE TIGHTENED WITHOUT TWISTING THE CABLE.

MIDWEST GUARDRAIL SYSTEM (MGS)
TYPE 2 TERMINAL

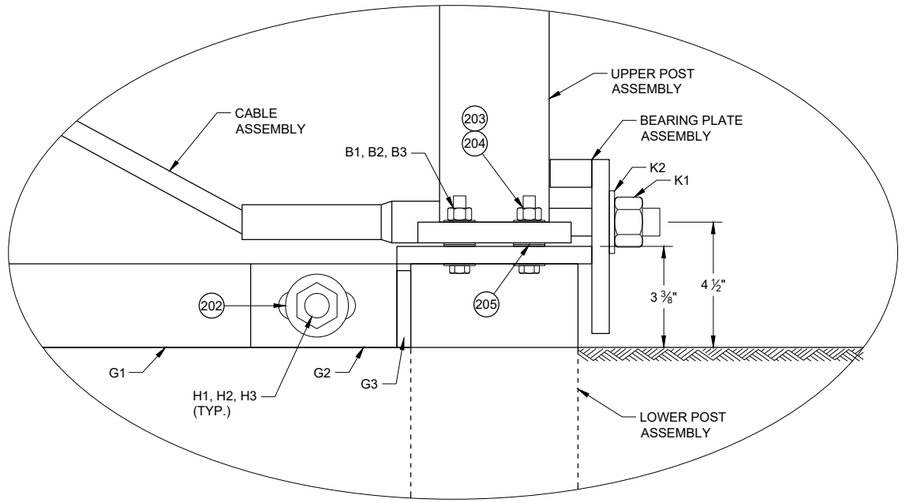
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

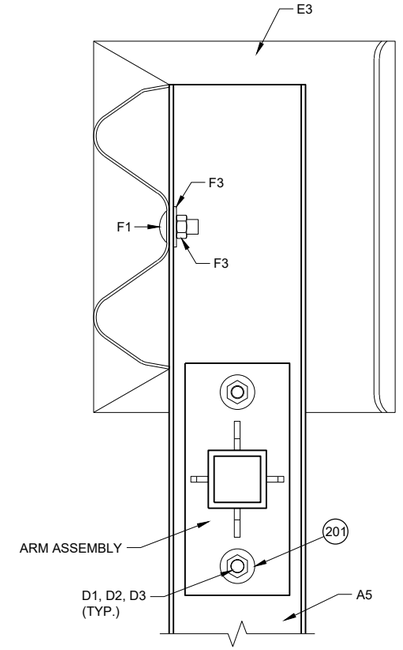
SDD 14B47 - 05a



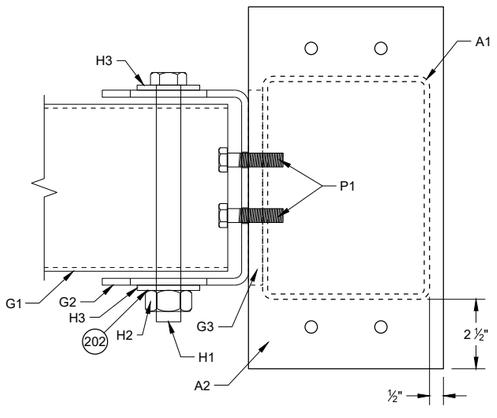
DETAIL "A"



DETAIL "B"

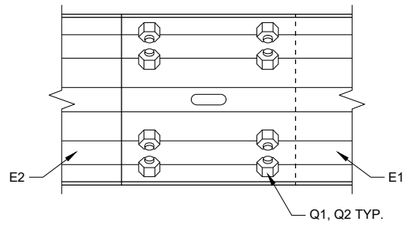


SECTION B - B



TOP VIEW

GROUND STRUT CONNECTION DETAIL



DETAIL "C"

GENERAL NOTES

200 INSTALL ONE WASHER UNDER BOLT HEAD AND RAIL AND ON WASHER BETWEEN NUT AND ANCHOR BRACKET ASSEMBLY.

201 INSTALL ONE WASHER UNDER BOLT HEAD AND UPPER POST ASSEMBLY AND ONE WASHER BETWEEN NUT AND ARM PLATE.

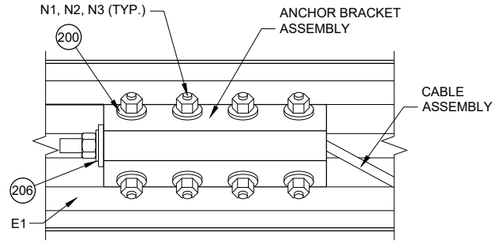
202 INSTALL ONE WASHER UNDER BOLT HEAD AND GROUND STRUT CONNECTOR AND ONE WASHER BETWEEN NUT AND GROUND STRUT CONNECTOR.

203 INSTALL ONE WASHER UNDER BOLT HEAD AND LOWER POST ASSEMBLY AND ONE WASHER BETWEEN NUT AND UPPER POST ASSEMBLY.

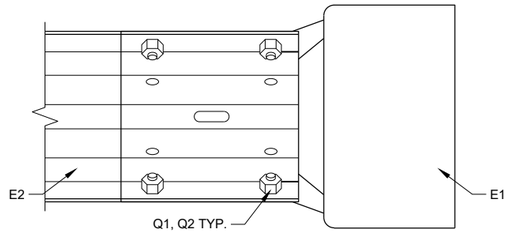
204 TORQUE VALUE IS BETWEEN 60 - 75 FT-LB.

205 TWO WASHERS BETWEEN UPPER AND LOWER POST ASSEMBLY.

206 INSTALL ONE WASHER BETWEEN NUT AND ANCHOR BRACKET ASSEMBLY.



DETAIL "D"



DETAIL "E"

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

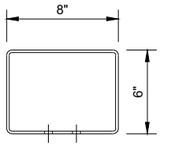
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

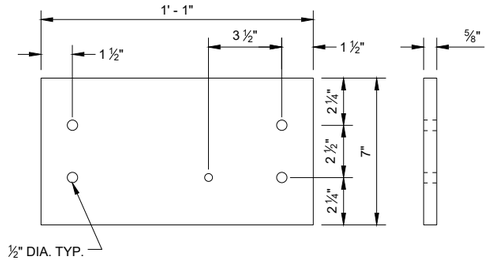
SDD 14B47 - 05b

GENERAL NOTES

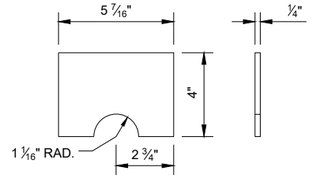
(300) TAP FOR 1/2" AFTER GALVANIZATION



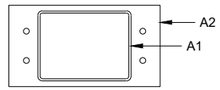
TOP VIEW



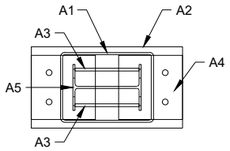
LOWER PLATE (A2)

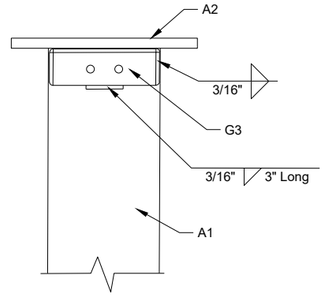


POST GUSSET (A3)

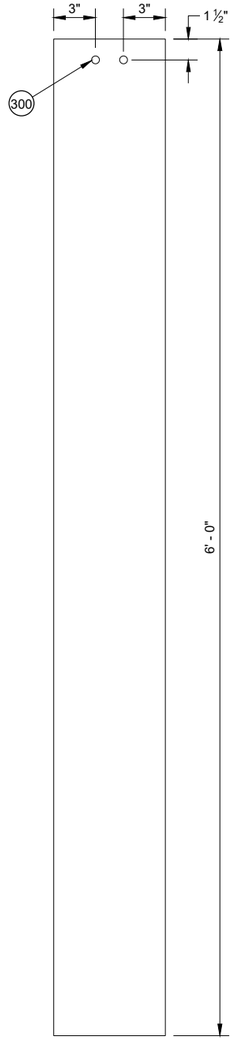


PLAN VIEW



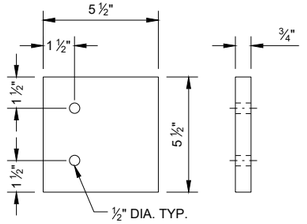


WELDING DETAIL
G3 AND A1

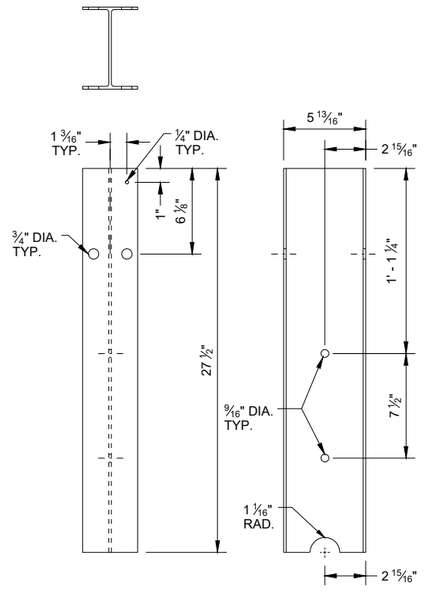


SIDE VIEW

FOUNDATION TUBE (A1)

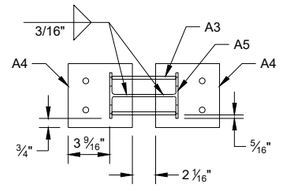


UPPER PLATE (A4)

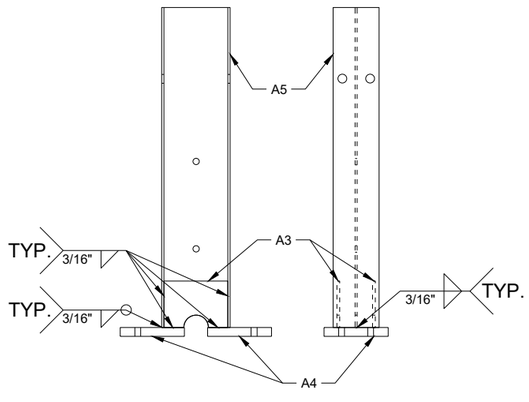


FRONT VIEW SIDE VIEW

TYPE 2 POST (A5)

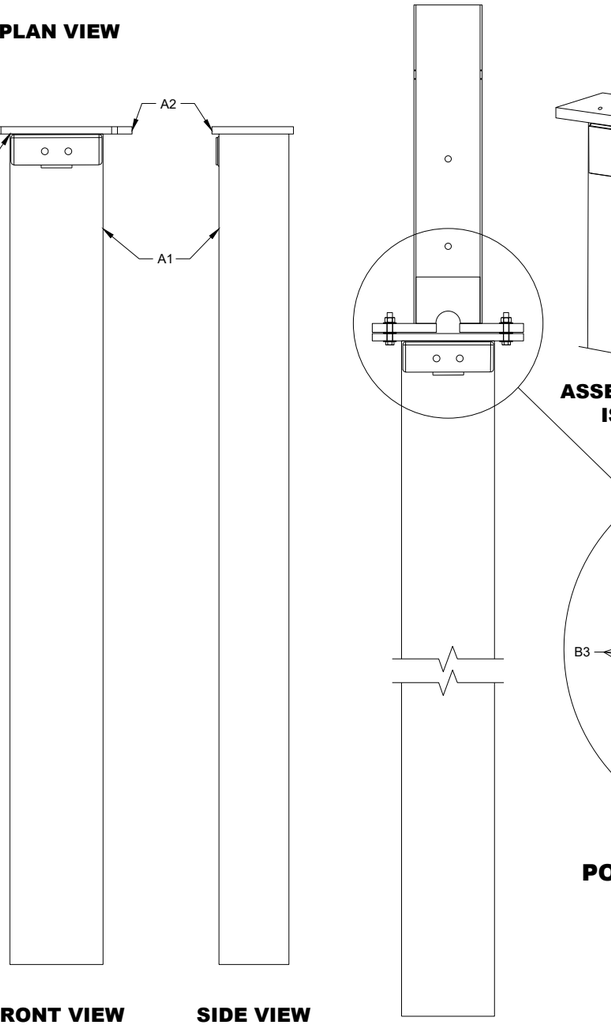


PLAN VIEW



SIDE VIEW FRONT VIEW

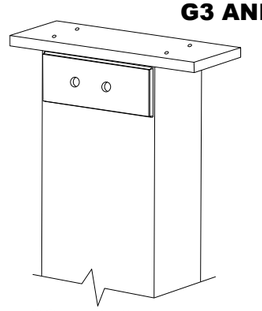
UPPER POST ASSEMBLY



FRONT VIEW SIDE VIEW

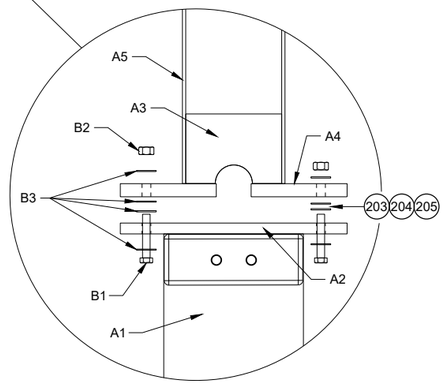
LOWER POST ASSEMBLY

ASSEMBLED POST



ASSEMBLY DETAIL ISOMETRIC

A1



POST CONNECTION DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

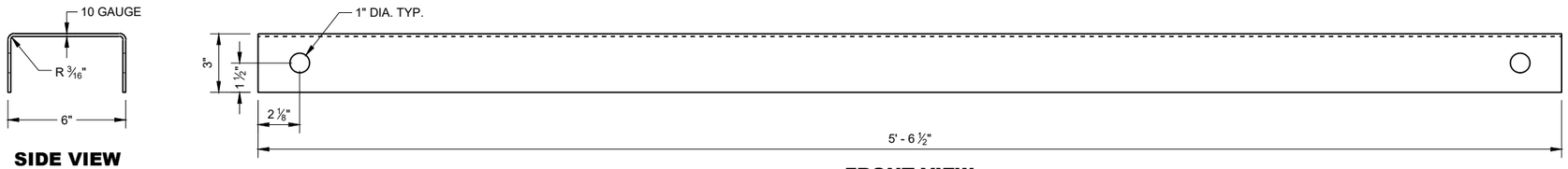
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

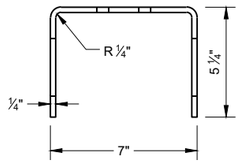
SDD14B47 - 05c

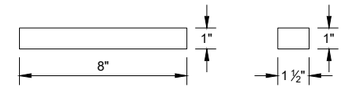
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SDD14B47 - 05c

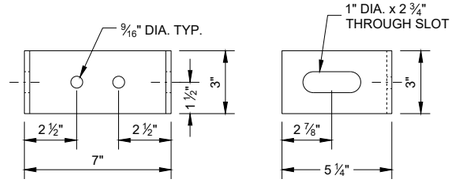


GROUND STRUT CHANNEL (G1)

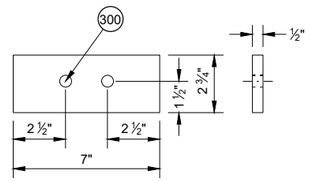




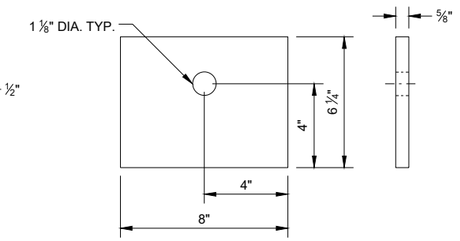
BEARING PLATE FLANGE (L2)



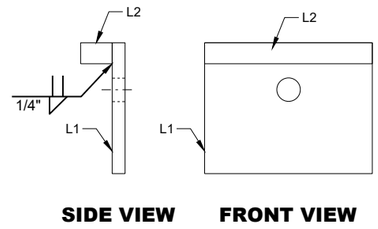
GROUND STRUT CONNECTOR (G2)



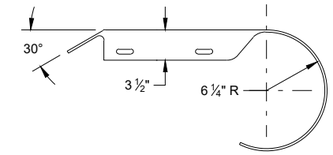
GROUND STRUT PLATE (G3)



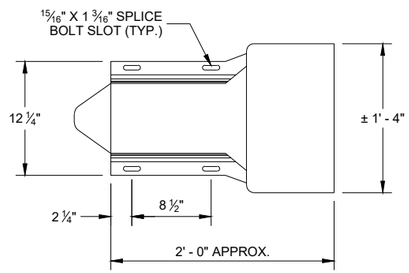
BEARING PLATE (L1)



BEARING PLATE ASSEMBLY

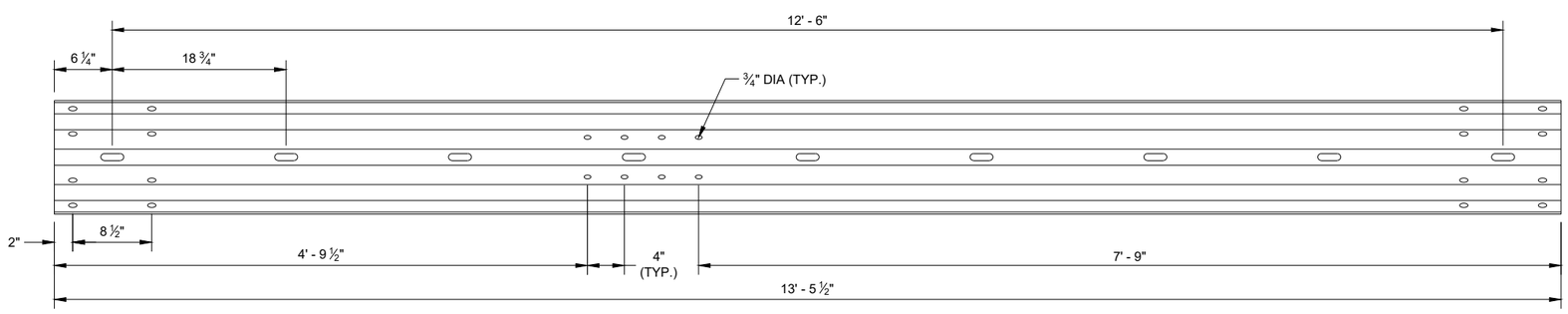


PLAN VIEW

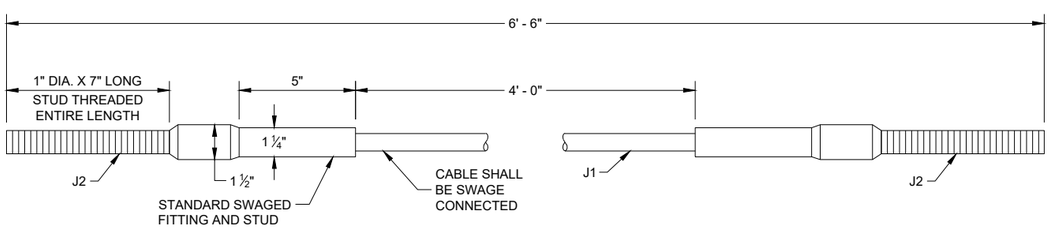


ELEVATION VIEW

ROUNDED BUFFER END (E3)



TYPE 2 GUARDRAIL (E1)



CABLE ASSEMBLY

6

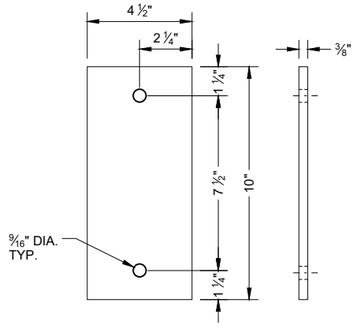
SDD 14B47 - 05d

MIDWEST GUARDRAIL SYSTEM (MGS)
TYPE 2 TERMINAL

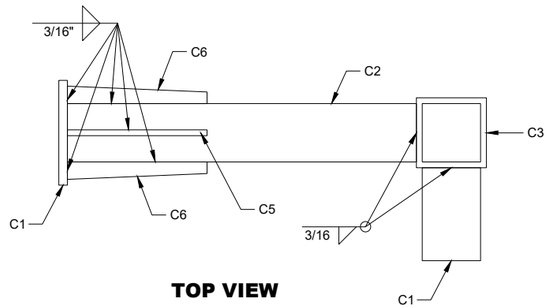
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DEPARTMENT OF TRANSPORTATION

6

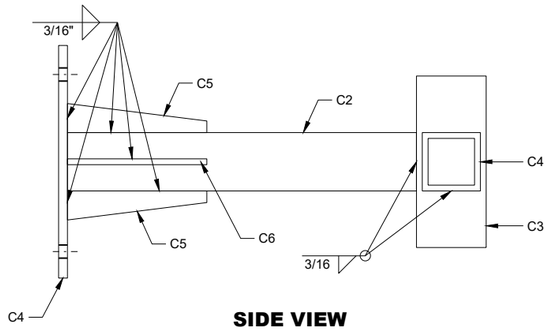
SDD 14B47 - 05d



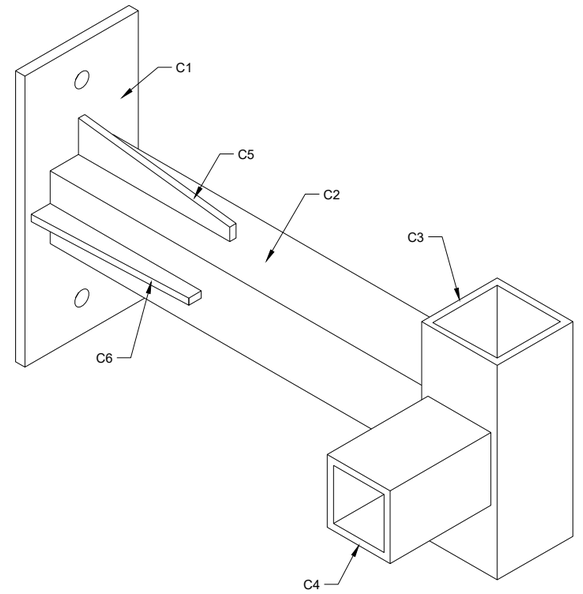
ARM PLATE (C1)



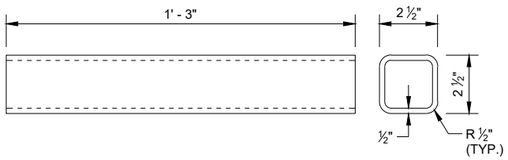
TOP VIEW
ARM ASSEMBLY



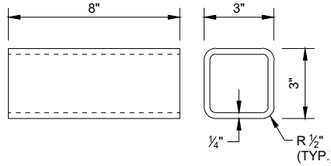
SIDE VIEW
ARM ASSEMBLY



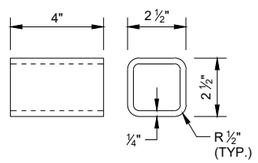
ISOMETRIC VIEW
ARM ASSEMBLY



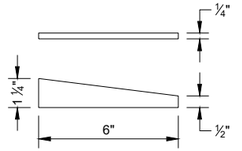
ARM TUBE 1 (C2)



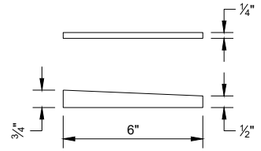
ARM TUBE 2 (C3)



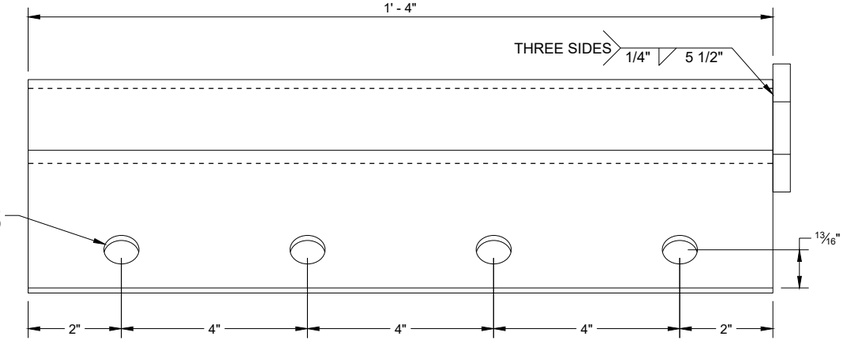
ARM TUBE 3 (C4)

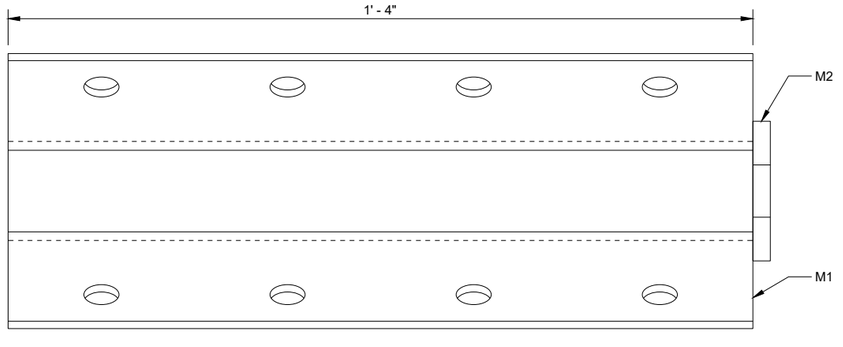


ARM GUSSET PLATE 1 (C5)

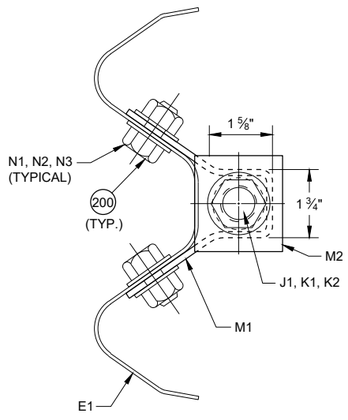


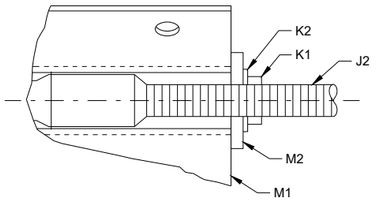
ARM GUSSET PLATE 2 (C6)



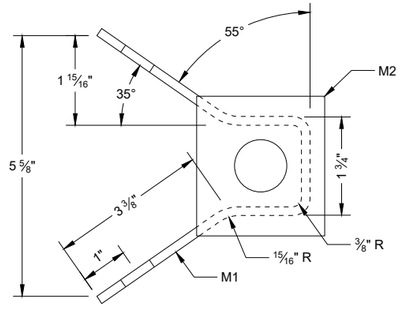


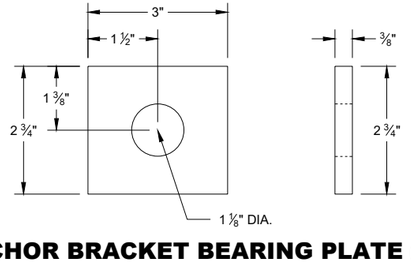
ANCHOR BRACKET (M1, M2)





SECTION A - A





ANCHOR BRACKET BEARING PLATE (M2)

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD14B47 - 05e

BILL OF MATERIALS - TYPE 2 TERMINAL (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
A1	TYPE 2 FOUNDATION TUBE	AASHTO M111 / ASTM A123 ASTM A500 GRADE B OR ASTM A-501	TS 8" x 6" x 3/16"
A2	LOWER PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	5/8" THICKNESS
A3	POST GUSSET	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	1/4" THICKNESS
A4	UPPER PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	3/4" THICKNESS
A5	TYPE 2 POST	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI, w6x9 or w6x8.5	
B1	BREAKAWAY BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC HEAVY HEX HEAD ASTM F3125 GRADE A325 TYPE 1 HEAVY HEX HEAD OR SAE J429 GRADE 5 HEAVY HEX HEAD / ASTM A449 TYPE 1 HEAVY HEX HEAD. BOLTS MAY BE FULLY THREADED . PROVIDE ENOUGH THREADING FOR PROPER TIGHTENING OF BOLT.	7/16" DIA.
B2	BREAKAWAY BOLT WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)	7/16" DIA.
B3	BREAKAWAY BOLT NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291/ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
C1	ARM ASSEMBLY PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	3/8" THICKNESS
C2	ARM ASSEMBLY TUBE 1	AASHTO M111 / ASTM A123 ASTM A500 GRADE B OR ASTM A-501	TS 8" x 6" x 3/16"
C3	ARM ASSEMBLY TUBE 2	AASHTO M111 / ASTM A123 ASTM A500 GRADE B OR ASTM A-501	TS 3" x 3" x 1/4"
C4	ARM ASSEMBLY TUBE 3	AASHTO M111 / ASTM A123 ASTM A500 GRADE B OR ASTM A-501	TS 2 1/2" x 2 1/2" X 1/4"
C5	ARM ASSEMBLY GUSSET PLATE 1	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	1/4" THICKNESS
C6	ARM ASSEMBLY GUSSET PLATE 2	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	1/4" THICKNESS
D1	ARM ASSEMBLY BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC HEAVY HEX HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	1/2" DIA.
D2	ARM ASSEMBLY WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)	1/2" DIA.
D3	ARM ASSEMBLY NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	1/2" DIA.
E1	TYPE 2 GUARD RAIL	AASHTO M180 CLASS A TYPE 2 12 GAUGE APPROVED PRODUCER	
E2	BEAM GUARD RAIL	AASHTO M180 CLASS A TYPE 2 12 GAUGE APPROVED PRODUCER	
E3	BEAM GUARD ROUNDED BUFFER END	AASHTO M180 CLASS A TYPE 2 12 GAUGE APPROVED PRODUCER	
F1	POST BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC UNC HEAVY HEX HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	5/8" DIA.
F2	POST BOLT WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)	5/8" DIA.
F3	POST BOLT NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291/ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
G1	GROUND STRUT CHANNEL	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	1/2" x 11 3/4" x 10 GAUGE
G2	GROUND STRUT CONNECTOR	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	1/4" THICKNESS
G3	GROUND STRUT PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	1/2" THICKNESS

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA

6

SDD 14B47 - 05f

BILL OF MATERIALS - TYPE 2 TERMINAL (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
H1	GROUND STRUT BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC HEAVY HEX HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	7/8" DIA.
H2	GROUND STRUT BOLT WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)	7/8" DIA.
H3	GROUND STRUT BOLT NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC HEAVY HEX HEAD 5/8" ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	
J1	BCT CABLE	AASHTO M30 / ASTM A741 6 x 19 INDEPENDENT WIRE CORE (IWRC) IMPROVED PLOW STEEL (IPS), 6 x 19 INDEPENDENT WIRE CORE (IWRC) IMPROVED PLOW STEEL (IPS) TYPE II OR IIC, CLASS C ZINC COATED MIN. BREAKING STRENGTH OF 42.7 KIPS	**3/4" DIA.**
J2	BCT CABLE	UNC 1" ASTM A576 GRADE 1035 SWAGE FITTINGS ARE TO BE FACTORY SWEDGED. MIN BREAKING STRENGTH OF 42.7 KIPS ASME B30.26 "FORGED, CAST, OR DIE STAMPED WITH THE FOLLOWING IN TO CONNECTION: NAME OF MANUFACTURE OR TRADEMARK OF CONNECTION'S MANUFACTURER, SIZE OR RATED LOAD, GRADE FOR ALLOY EYEBOLTS."	
K1	CABLE ASSEMBLY NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	1" DIA.
K2	CABLE ASSEMBLY WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1	1" DIA.
L1	BEARING PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	5/8" THICKNESS
L2	BEARING PLATE FLANGE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	1" THICKNESS
M1	BEAM GUARD ANCHOR BRACKET	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	
M2	BEAM GUARD ANCHOR END PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	3/8" THICKNESS
N1	ANCHOR BRACKET BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC AASHTO M180 HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	5/8" DIA.
N2	ANCHOR BRACKET BOLT WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)	5/8" DIA.
N3	ANCHOR BRACKET BOLT NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 /ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
P1	FOUNDATION TUBE BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	1/2" DIA.
Q1	SPLICE BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC AASHTO M180 HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	
Q2	SPLICE NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	5/8" DIA.

6

SDD 14B47 - 05g

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

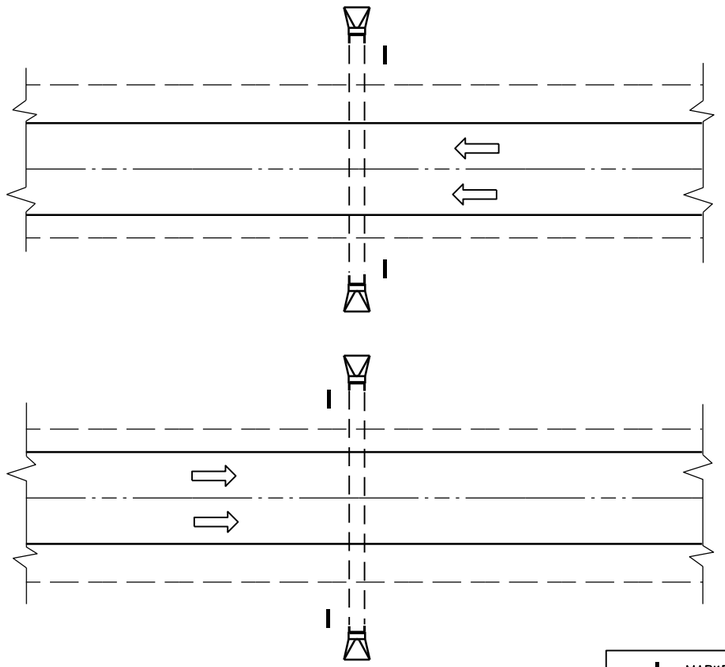
May 2023
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

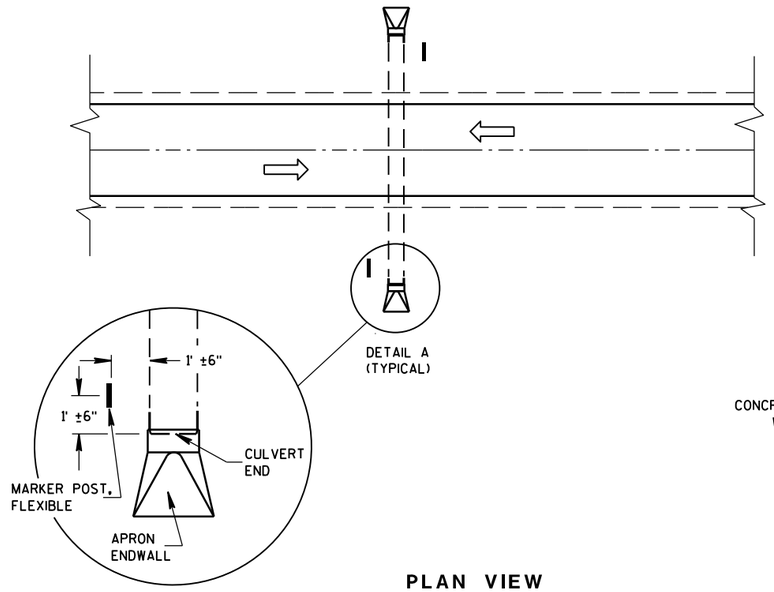
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SDD 14B47 - 05g



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

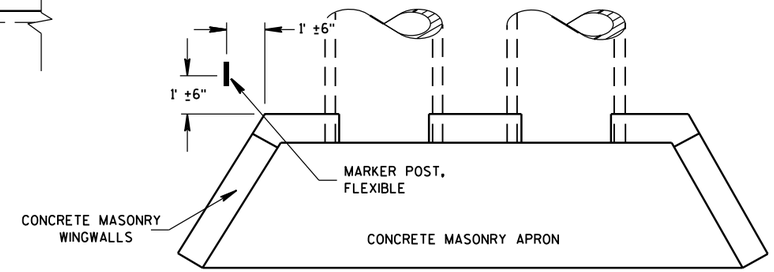
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

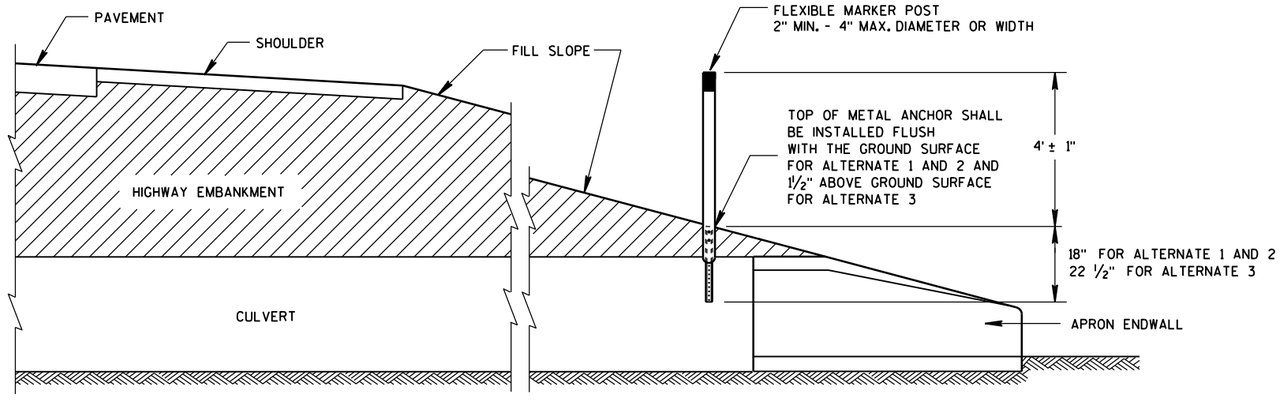
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

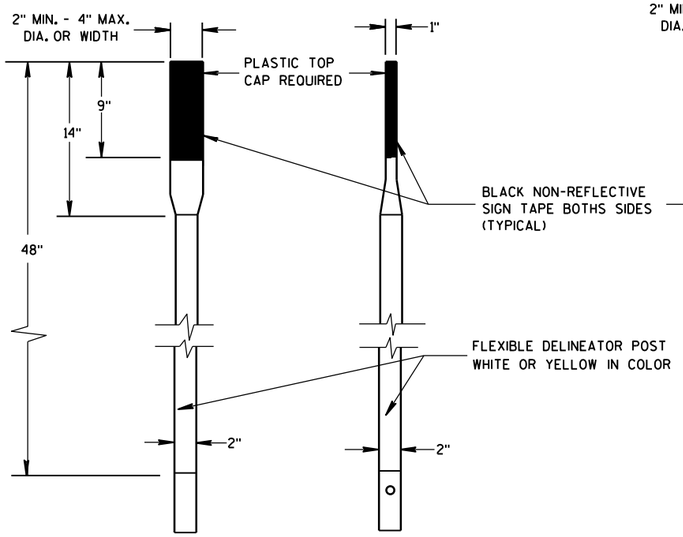
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

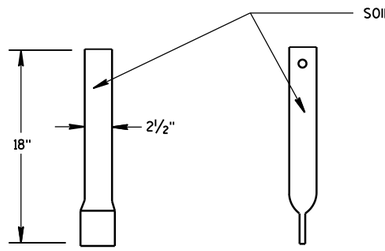
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S.D.D. 15 A 3-2a

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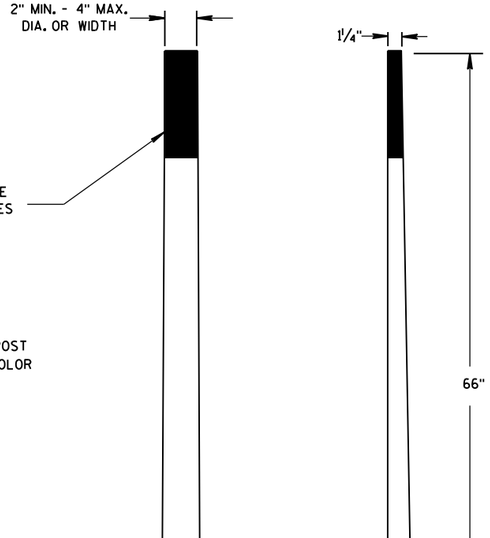
S.D.D. 15 A 3-2a





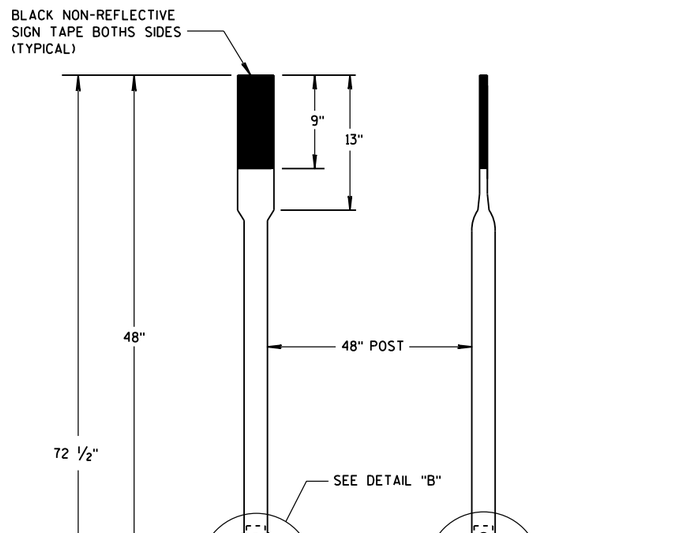
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

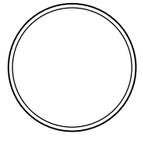
ALTERNATE 2



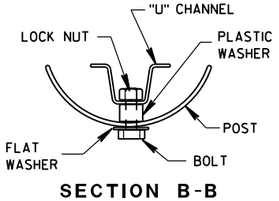
FRONT VIEW SIDE VIEW

ALTERNATE 3

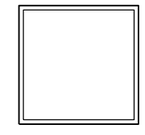
FLEXIBLE MARKER POSTS



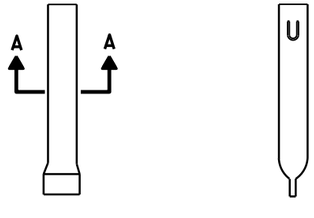
SECTION A-A



SECTION B-B

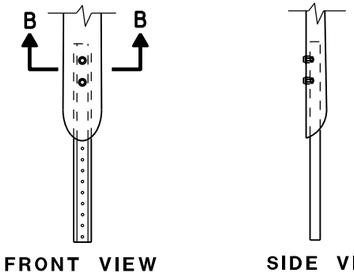


SECTION C-C



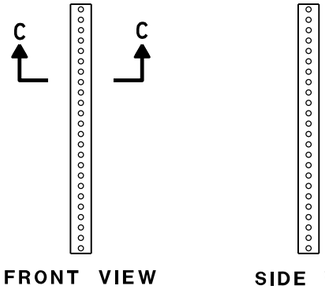
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

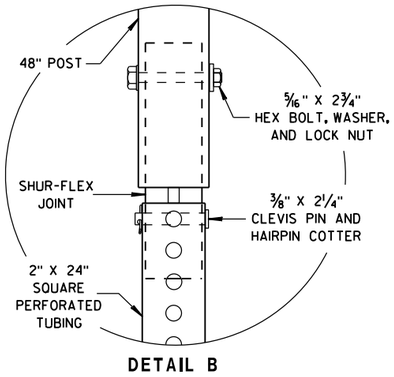
ALTERNATE 2



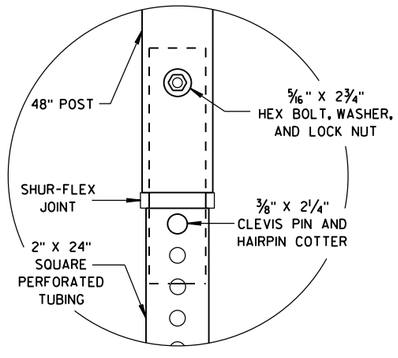
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/1/2012
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER

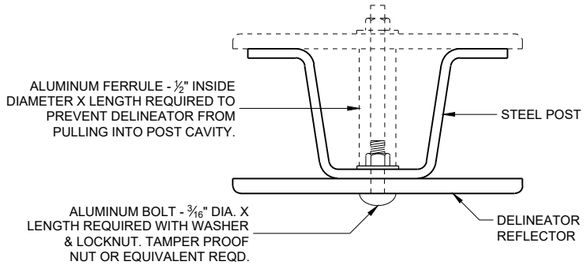
FHWA

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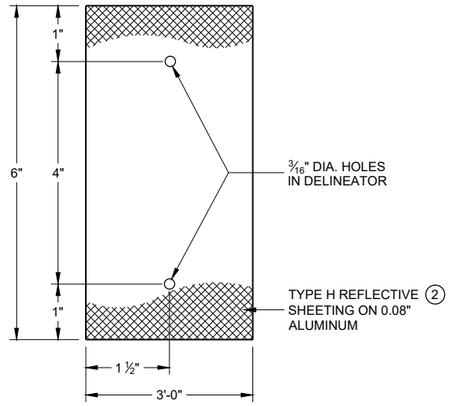
S.D.D. 15 A 3-2b

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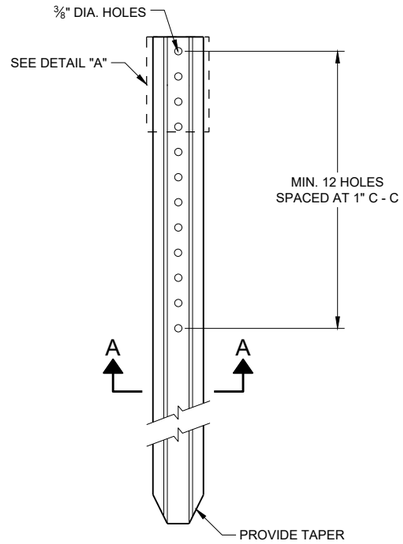
S.D.D. 15 A 3-2b



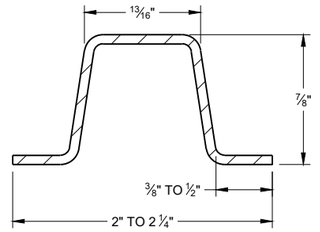
MOUNTING DETAIL FOR DELINEATOR REFLECTOR



DETAIL "A" 3" X 6" DELINEATOR REFLECTOR



DELINEATOR POST



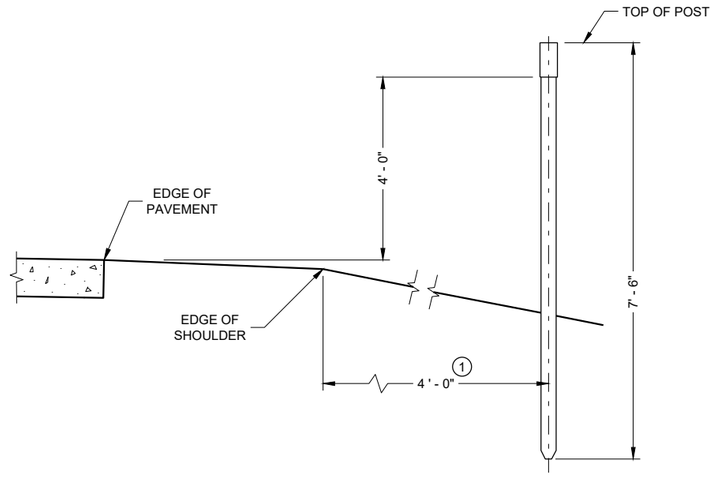
SECTION A - A

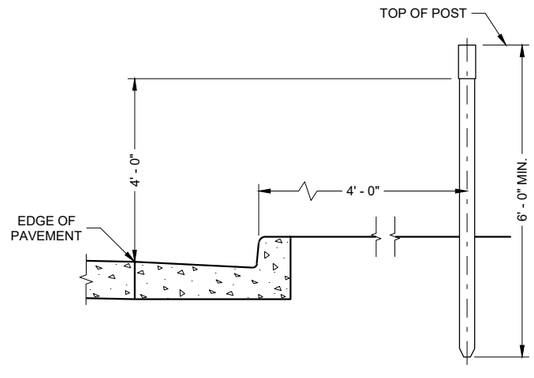
WEIGHT 1.12 LBS PER FT. \ 0.1 LB.

REFLECTOR SPACING TABLE

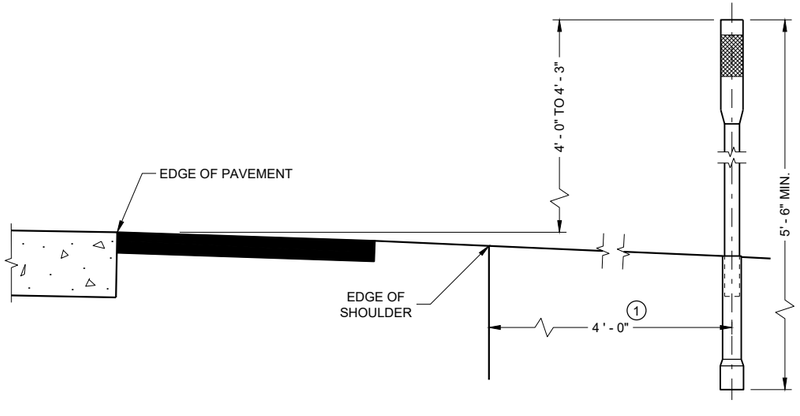
REFLECTOR SPACING	LOCATION
* 100' C-C	RAMPS
400' C-C	MAINLINE

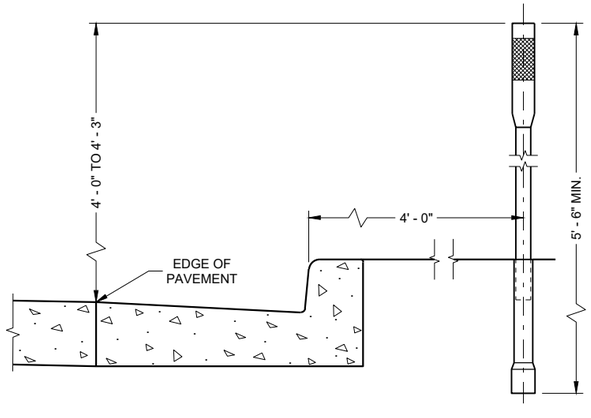
* START AT BEGINNING OF RAMP TAPER AND END AT END OF RAMP TAPER





TYPICAL INSTALLATIONS OF DELINEATOR POSTS





TYPICAL INSTALLATIONS OF FLEXIBLE DELINEATOR POSTS

GENERAL NOTES

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

1. DELINEATORS SHALL BE PLACED AT A CONSTANT DISTANCE FROM THE EDGE OF THE SHOULDER FOR THE LENGTH OF THE INSTALLATION.
2. FURNISH TYPE H SHEETING FROM THE APPROVED PRODUCTS LIST.

DELINEATOR POST WITH REFLECTIVE SHEETING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2021
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

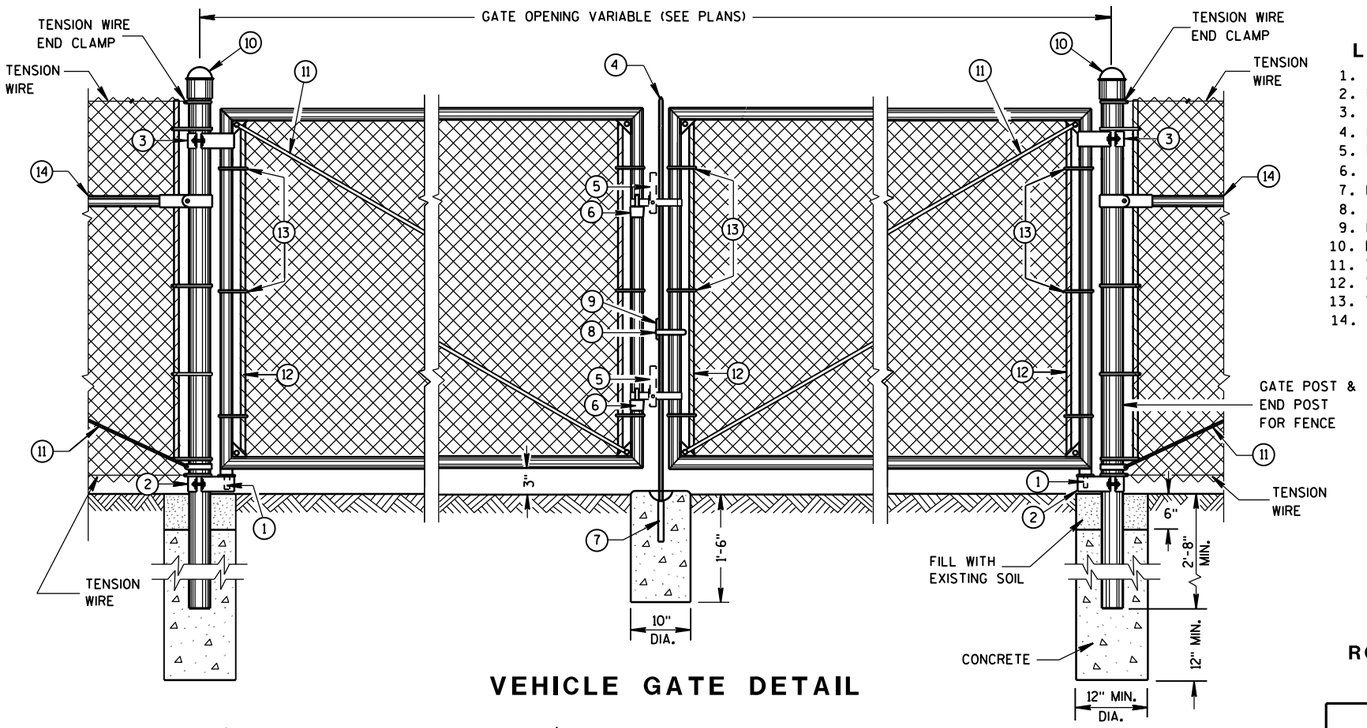
FHWA

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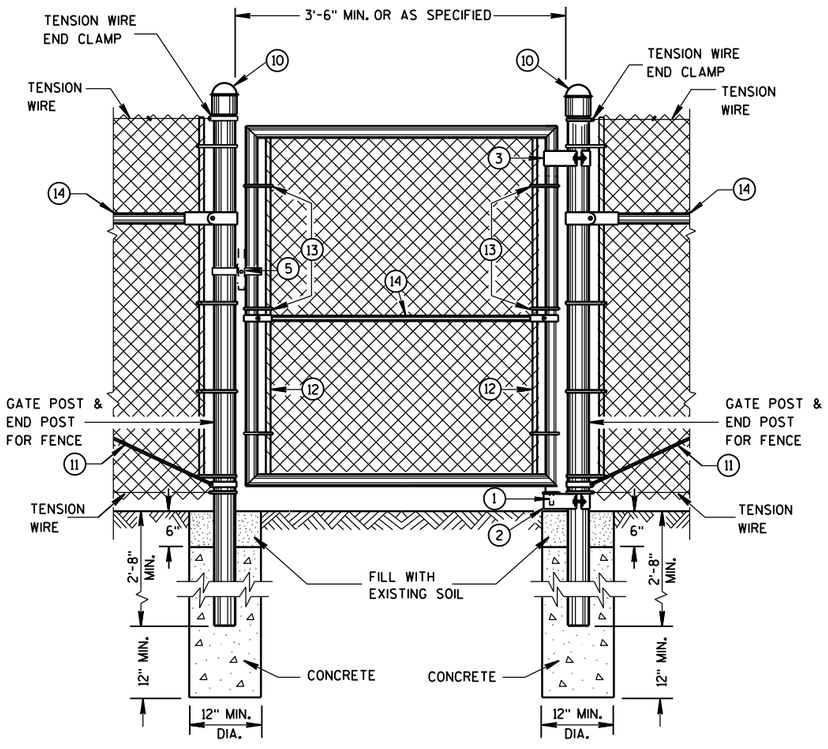
SDD 15A04 - 07c

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SDD 15A04 - 07c



VEHICLE GATE DETAIL



PEDESTRIAN GATE DETAIL

LEGEND

1. STRAIGHT PLUG
2. BOTTOM HINGE
3. TOP HINGE
4. PLUNGER ROD
5. FULCRUM LATCH
6. FORK CATCH *
7. PLUNGER ROD CATCH
8. LOCK KEEPER GUIDE
9. LOCK KEEPER
10. DOME TOPS
11. TRUSS RODS
12. TENSION BAR
13. TENSION BANDS
14. BRACE RAIL

*NOT REQUIRED ON SINGLE SWING PEDESTRIAN GATE

GENERAL NOTES

FENCE POSTS INSTALLED ON CONCRETE WALLS SHALL BE ANCHORED INTO EMBEDDED METAL SLEEVES OR CORED HOLE BY FILLING THE ANNULAR SPACE WITH PEA GRAVEL FOLLOWED BY AN EPOXY RESIN ADHESIVE. THE EPOXY RESIN ADHESIVE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 235, CLASS A, B OR C.

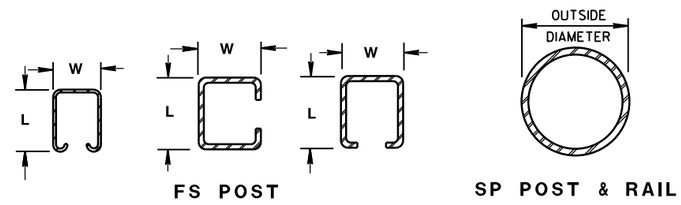
USE FENCE FABRIC KNUCKLED AT BOTH SELVAGES.

FOR LEAF GATES GREATER THAN 8 FEET WIDE, INSTALL INTERIOR VERTICAL BRACE RAIL AT 8 FOOT INTERVALS.

FOR FABRIC HEIGHTS GREATER THAN 8 FEET, INSTALL INTERIOR HORIZONTAL BRACE RAILS TO LEAF GATE.

MAXIMUM SAG FOR OUTER GATE MEMBER SHALL NOT EXCEED THE GREATER OF 1% OF THE LEAF GATE WIDTH OR 2 INCHES.

USE TYPE 2, CLASS 3, MARCELLED/CRIMPED, TENSION WIRE PER ASTM A 817.



CROSS SECTIONS OF POSTS AND RAILS

ROLLED-FORMED STEEL FENCE POST (2.0 OZ./SQ. FT. COATING)

POST TYPE	LENGTH (L) INCH	WIDTH (W) INCH	WEIGHT LBS/FT
FS1	1.625	1.25	1.35
FS2†	1.875	1.625	1.850
FS2	1.875	1.625	2.400
FS3	2.250	1.700	2.780

ROUND STEEL FENCE POST (1.8 OZ./SQ. FT. COATING)

POST TYPE	OUTSIDE DIMENSION INCH	WALL THICKNESS INCH	WEIGHT LBS/FT
SP1	1.660	0.140	2.270
SP2	1.900	0.145	2.720
SP3	2.375	0.154	3.650
SP4	2.875	0.203	5.800
SP5	4.000	0.226	9.120
SP6	6.625	0.280	18.990
SP7	8.625	0.322	28.580

REQUIRED FENCE POST SIZES

USE	FABRIC HEIGHTS FEET	POST TYPE
TERMINAL POSTS **	LESS THAN OR EQUAL TO 6 FT.	SP3
	GREATER THAN OR EQUAL TO 6 FT.	SP4
LINE POSTS	LESS THAN OR EQUAL TO 6 FT.	SP2
	LESS THAN OR EQUAL TO 8 FT.	SP3
	GREATER THAN OR EQUAL TO 8 FT.	SP4
	LESS THAN OR EQUAL TO 8 FT.	FS2 OR FS2†
	GREATER THAN OR EQUAL TO 8 FT.	FS3

REQUIRED POST SIZE FOR GATES

USE	LEAF WIDTHS FEET	POST TYPE
GATES	LESS THAN OR EQUAL TO 6 FT.	SP4
	LESS THAN OR EQUAL TO 13 FT.	SP5
	LESS THAN OR EQUAL TO 18 FT.	SP6
	LESS THAN OR EQUAL TO 23 FT.	SP7

BRACE RAIL TYPES

USE		TYPE
BRACE RAIL		SP1 OR FS1

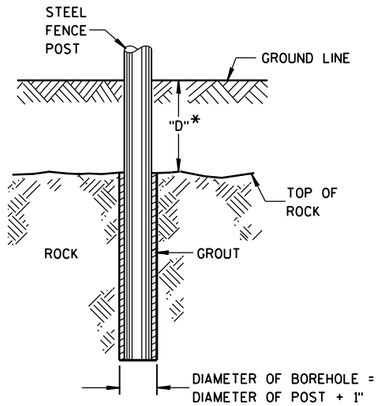
** INCLUDES END, CORNER, ANGLE, INTERSECTION AND INTERMEDIATE BRACED POSTS

FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

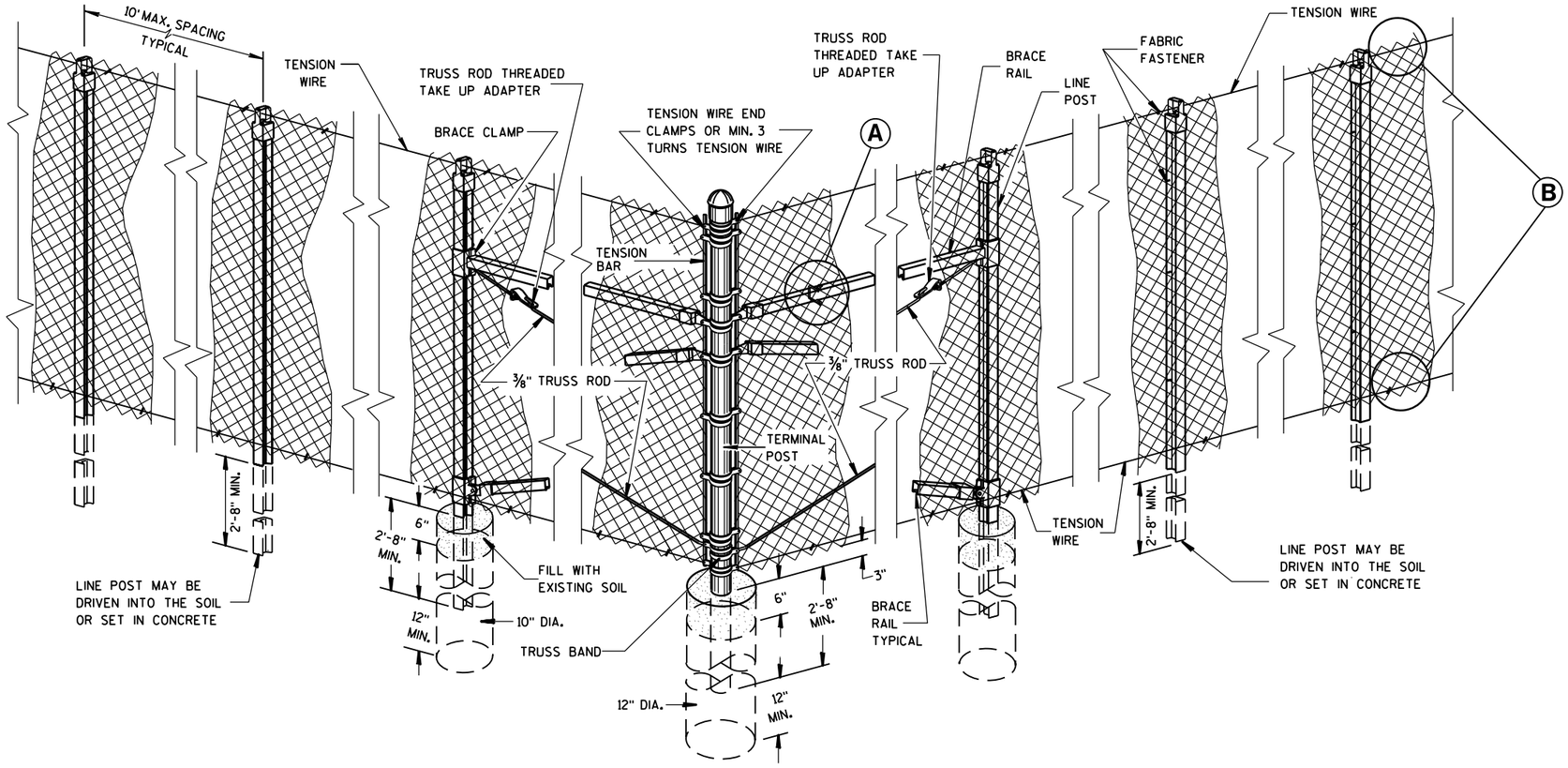
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S.D.D. 15 B 3-15a
S.D.D. 15 B 3-15a

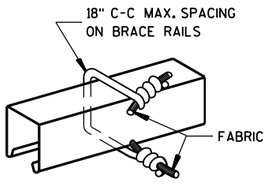


*IF "D" IS LESS THAN 2'-6", DRILL ROCK AND INSTALL GROUT

ROCK INSTALLATION OF LINE POST



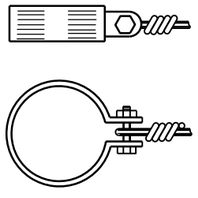
END, CORNER, ANGLE INTERSECTION & INTERMEDIATE BRACED POSTS



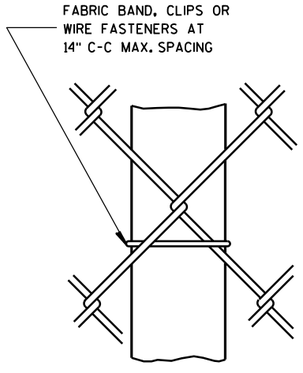
BRACE RAIL

FABRIC FASTENER

Ⓐ



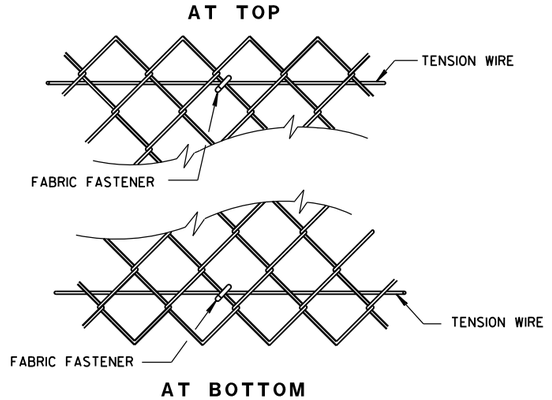
TENSION WIRE END CLAMP



LINE POST

FABRIC FASTENER

AT TOP



AT BOTTOM

SELVAGES

Ⓑ

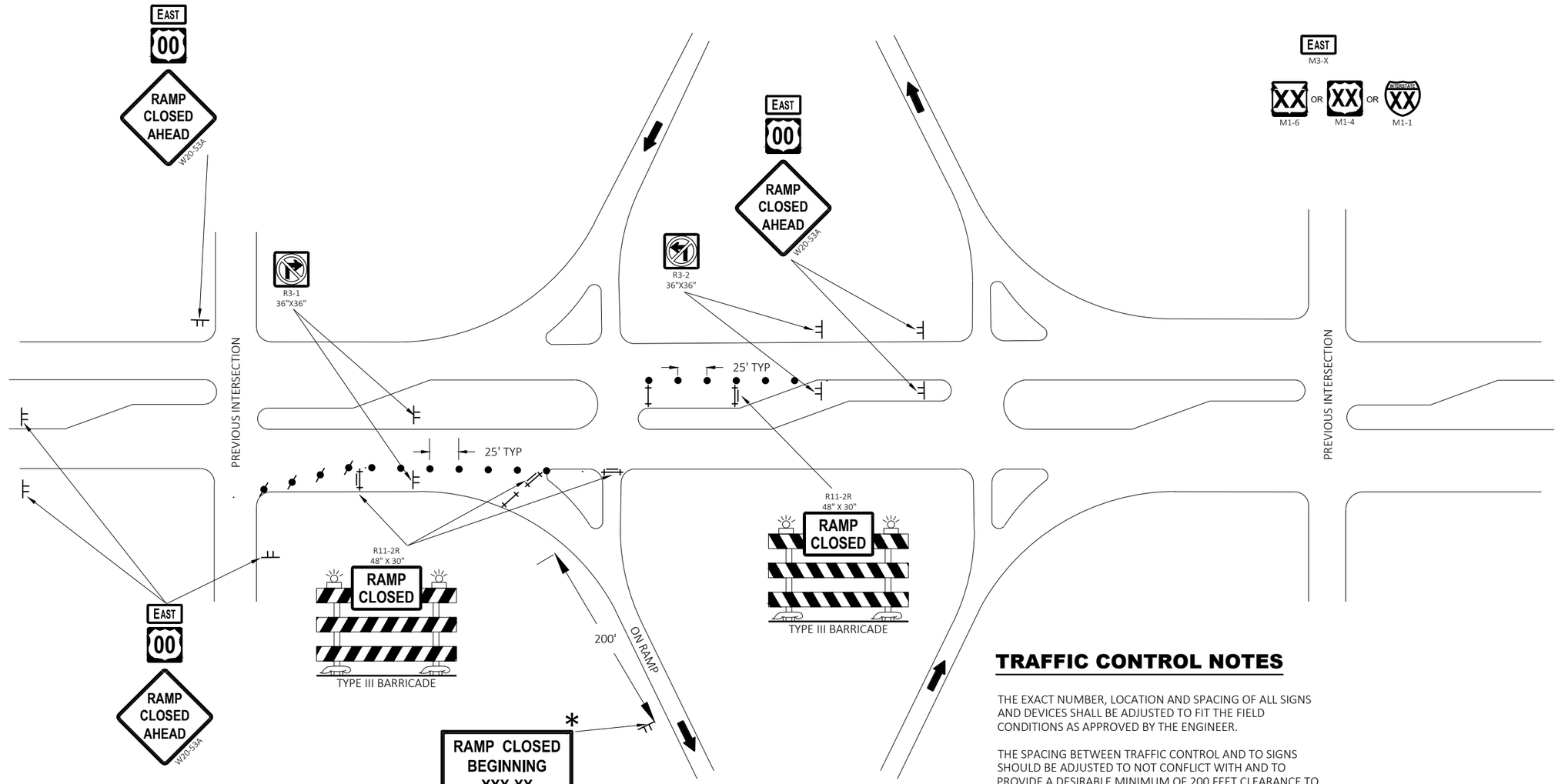
FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
FEB. 2015 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 15 B 3-15b



LEGEND

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

TRAFFIC CONTROL NOTES

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

THE SPACING BETWEEN TRAFFIC CONTROL AND TO 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 THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24"x24" (36" x18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-1, M1-4, AND M1-6 SHALL BE 24"x24" (36"x36" IF NEEDED TO MATCH EXISTING SIGNS)
- W20-53A SHALL BE 48"X48"

* PLACE "RAMP CLOSED BEGINNING" SIGN 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR LAYOUT.

TRAFFIC CONTROL FOR ENTRANCE RAMP CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

FHWA

6
SDD 15C02-09g

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.

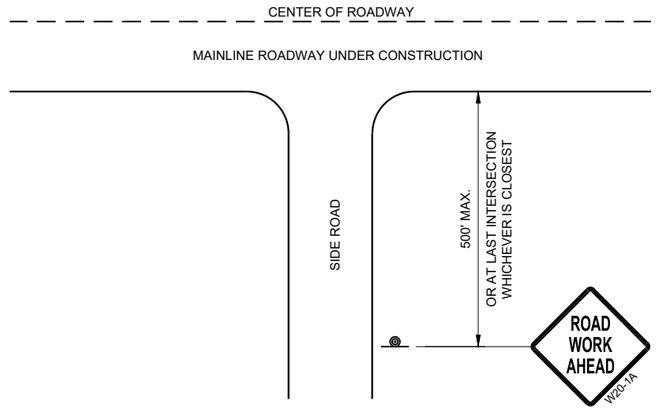
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

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.



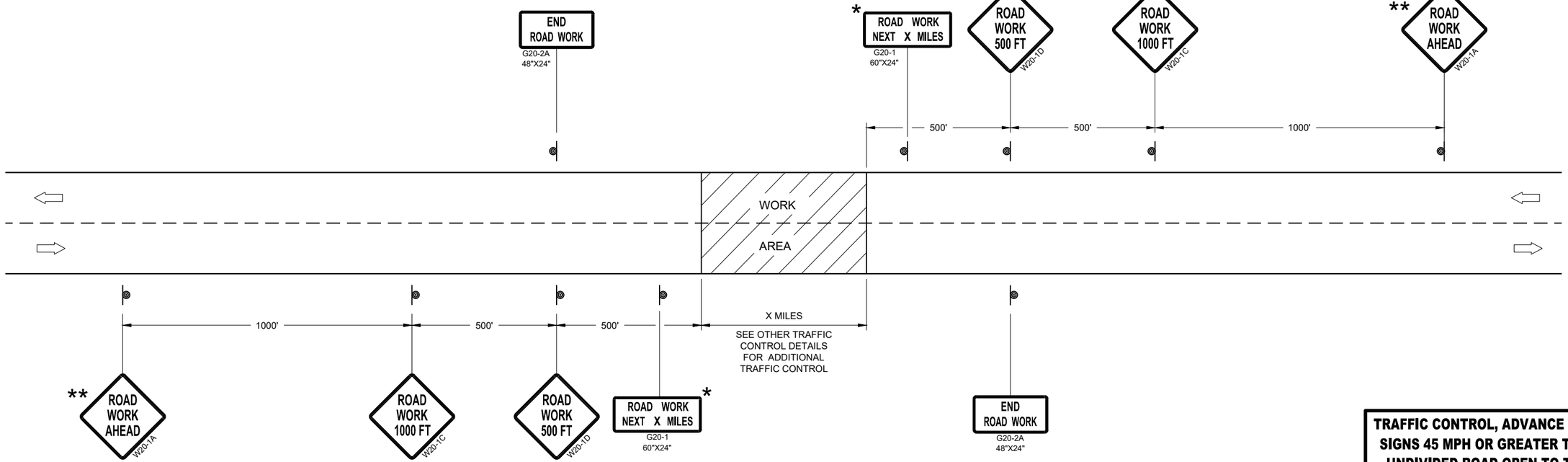
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

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

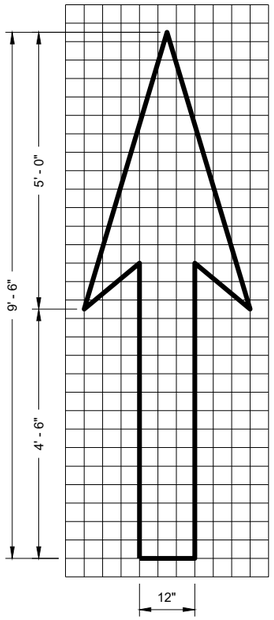
FHWA

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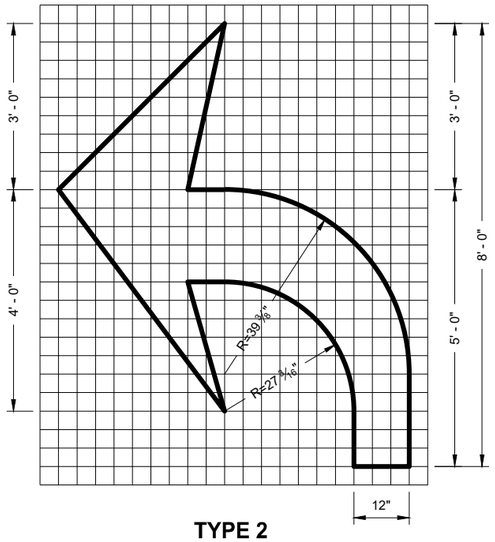
SDD 15C04 - 05

GENERAL NOTES

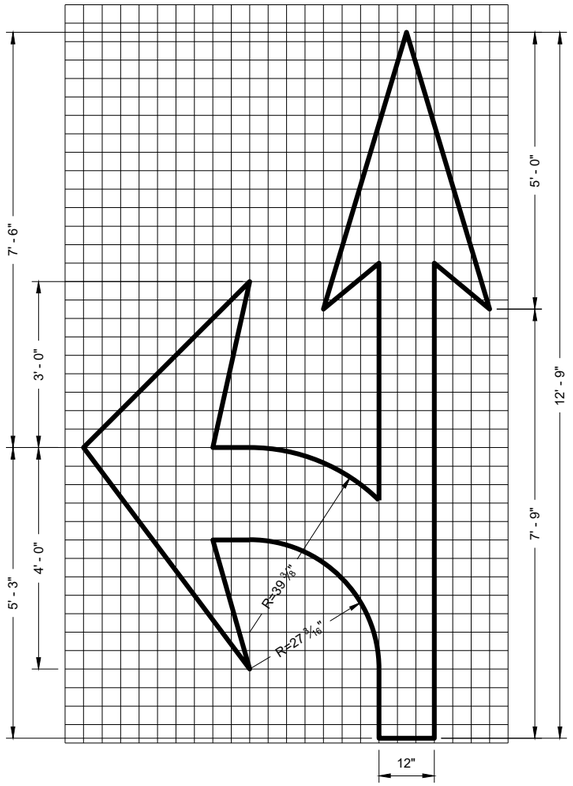
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



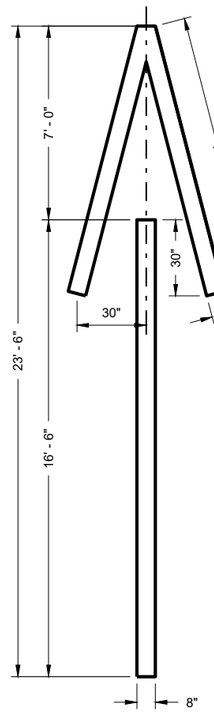
TYPE 1



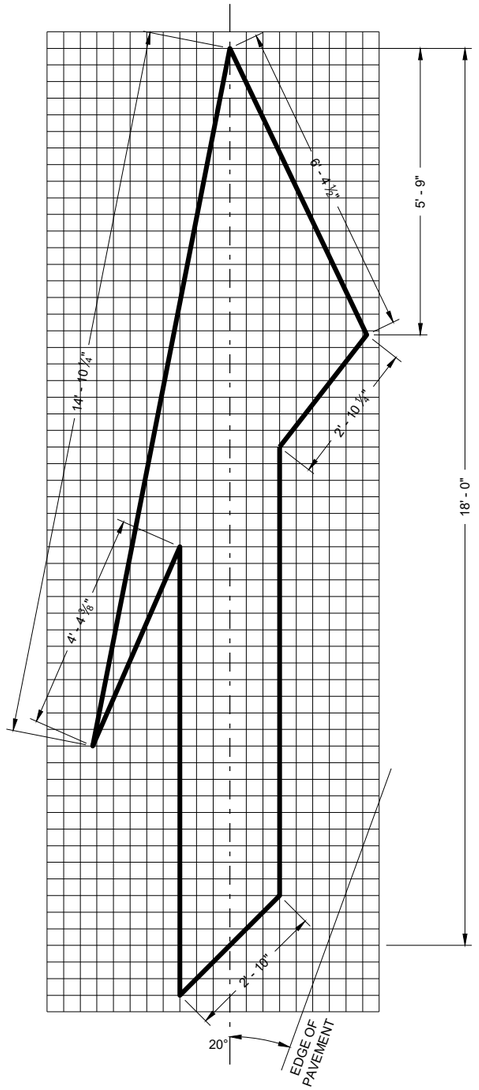
TYPE 2



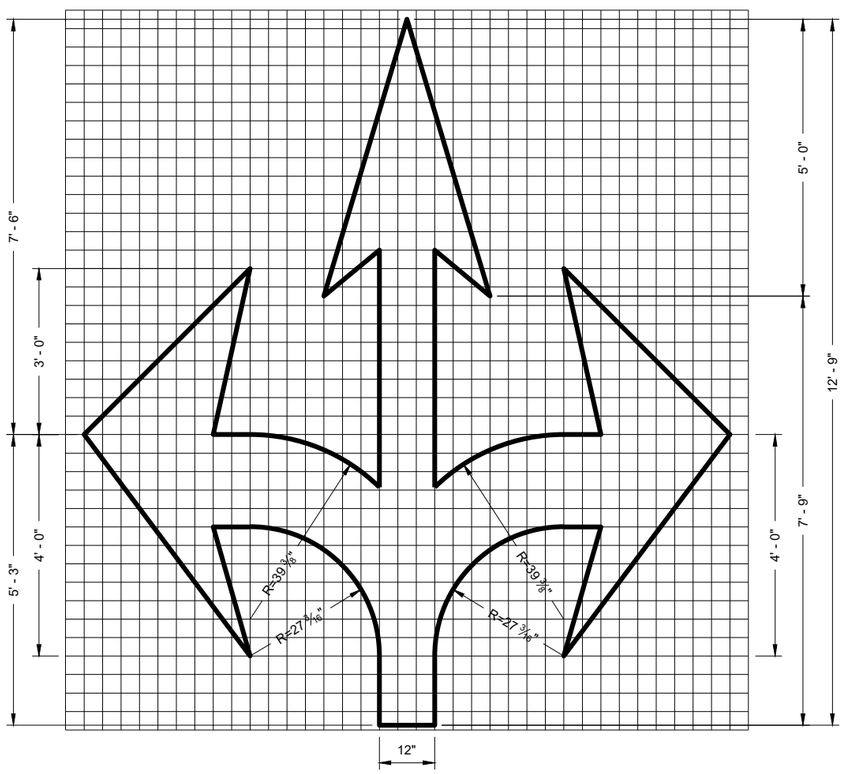
TYPE 3



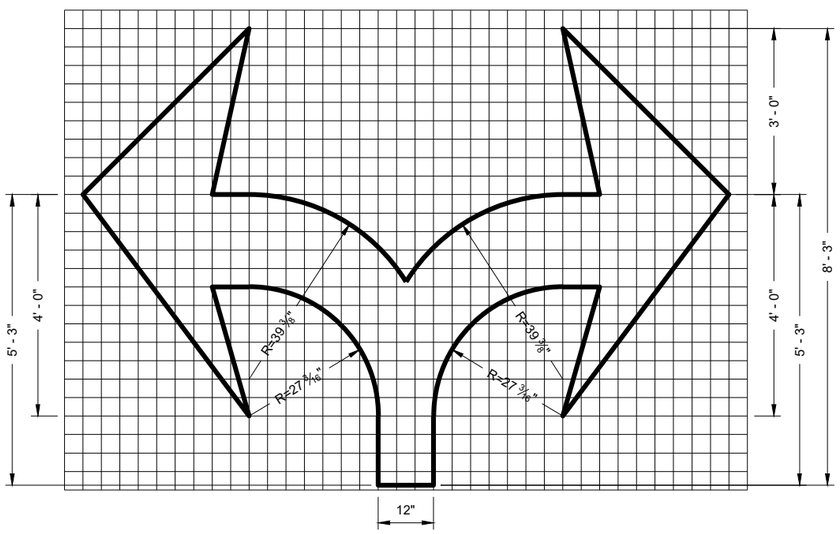
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

6

SDD 15C07 - 15c

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SDD 15C07 - 15c

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

GENERAL NOTES

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

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING

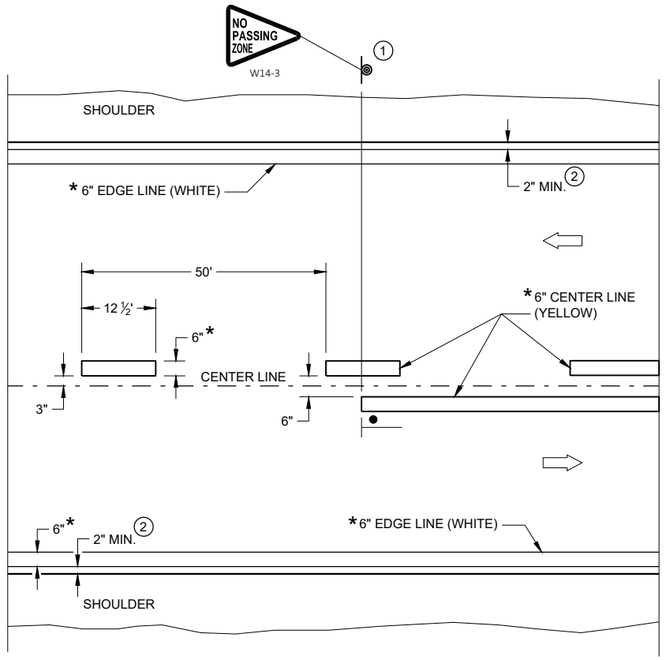
(2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

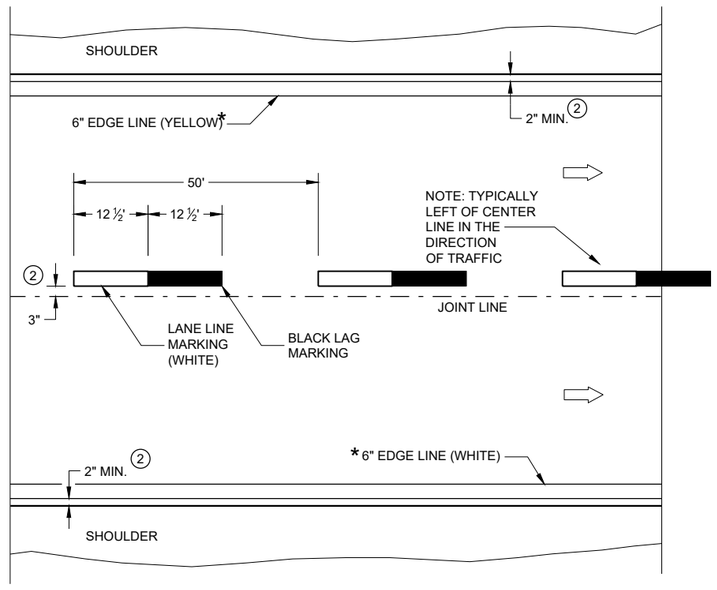
"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

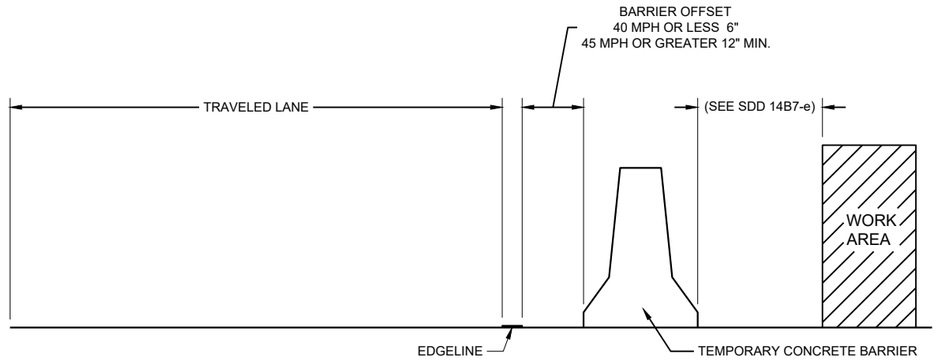
PERMANENT LONGITUDINAL PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Jeannie Silver — STATEWIDE SIGNING AND M ENGINEER
FHWA

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SDD 15C08-23a



TEMPORARY BARRIER OFFSET FROM EDGELINE

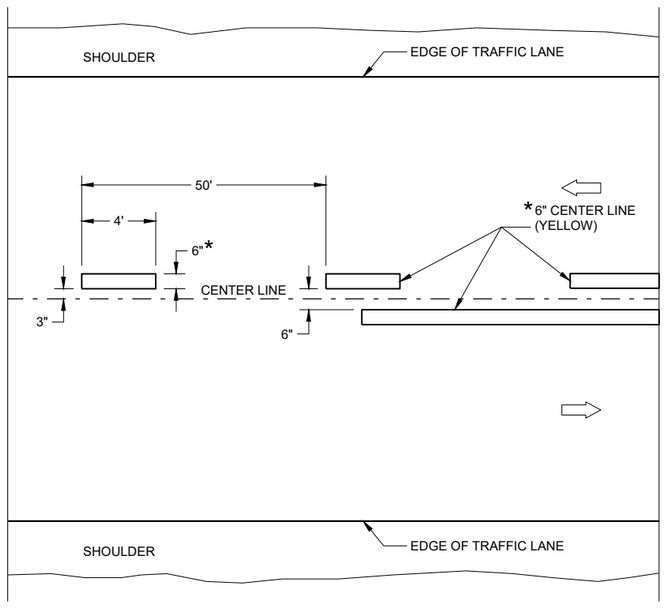
GENERAL NOTES

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

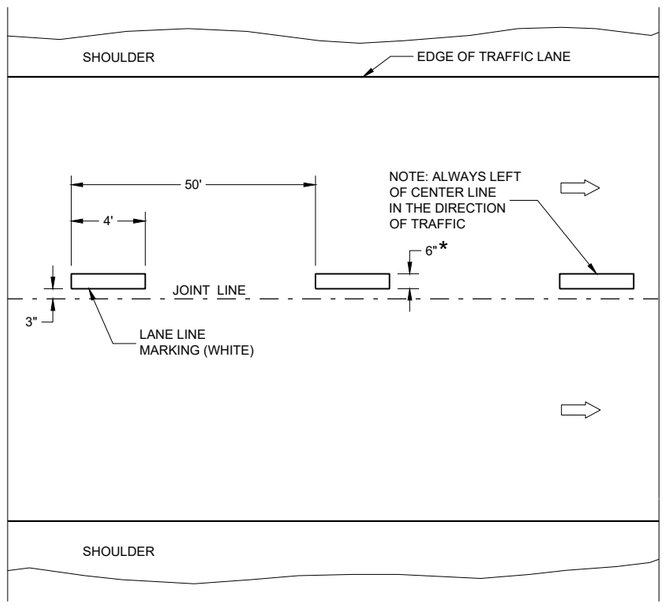
LEGEND

⇨ DIRECTION OF TRAFFIC

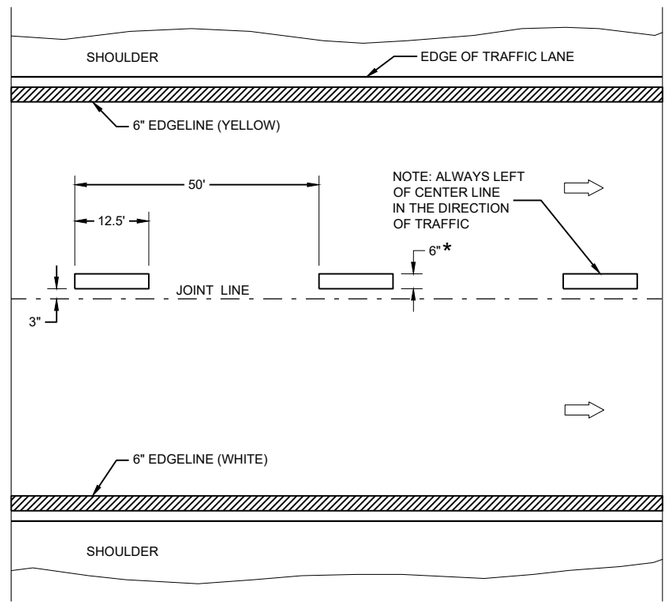
* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



TWO WAY TRAFFIC



ONE WAY TRAFFIC



FREEWAYS AND EXPRESSWAYS

TEMPORARY PAVEMENT MARKING

TEMPORARY LONGITUDINAL PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Jeannie Silver — STATEWIDE SIGNING AND M ENGINEER

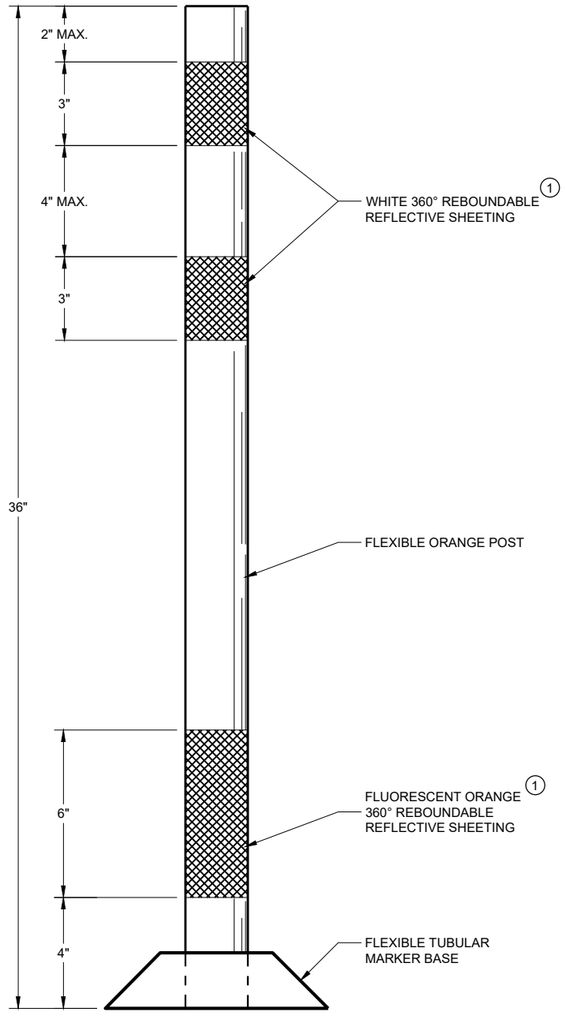
FHWA

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SDD 15C08-23b

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SDD 15C08-23b



FLEXIBLE TUBULAR MARKER POST WORK ZONE

GENERAL NOTES

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

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, UNLESS DIRECTED BY THE ENGINEER TO USE BOLTS.

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

CHANNELIZING DEVICES
FLEXIBLE TUBULAR MARKER POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

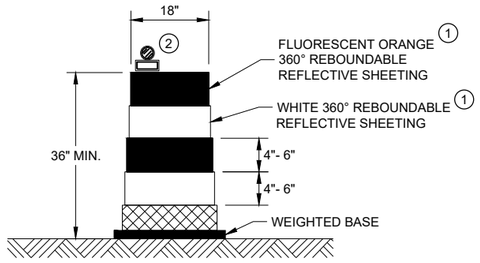
6

SDD15C11 - 10a

SDD15C11 - 10a

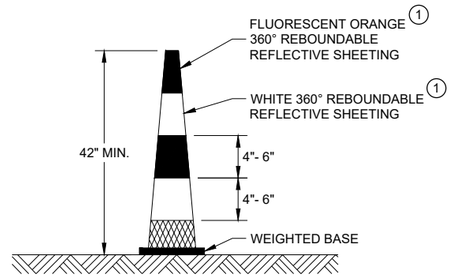
GENERAL NOTES

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

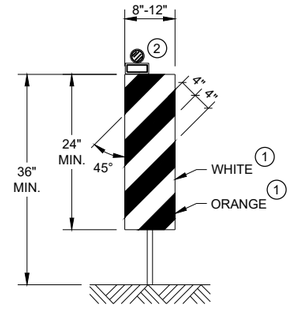
BALLAST WIDTHS
RANGE FROM 24"-36"



42" CONE

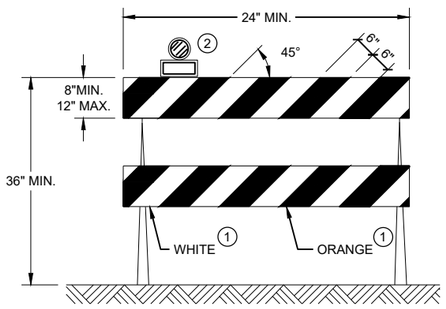
DO NOT USE IN TAPERS
½ SPACING OF DRUMS

BALLAST WIDTHS
RANGE FROM 14"-20"



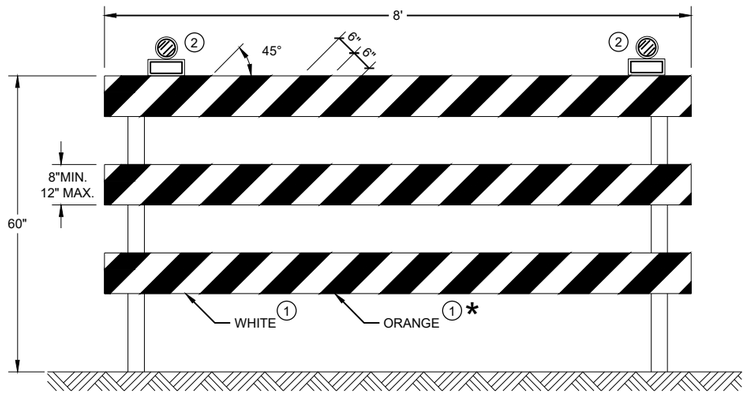
VERTICAL PANEL

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.

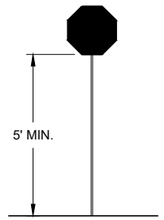
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

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

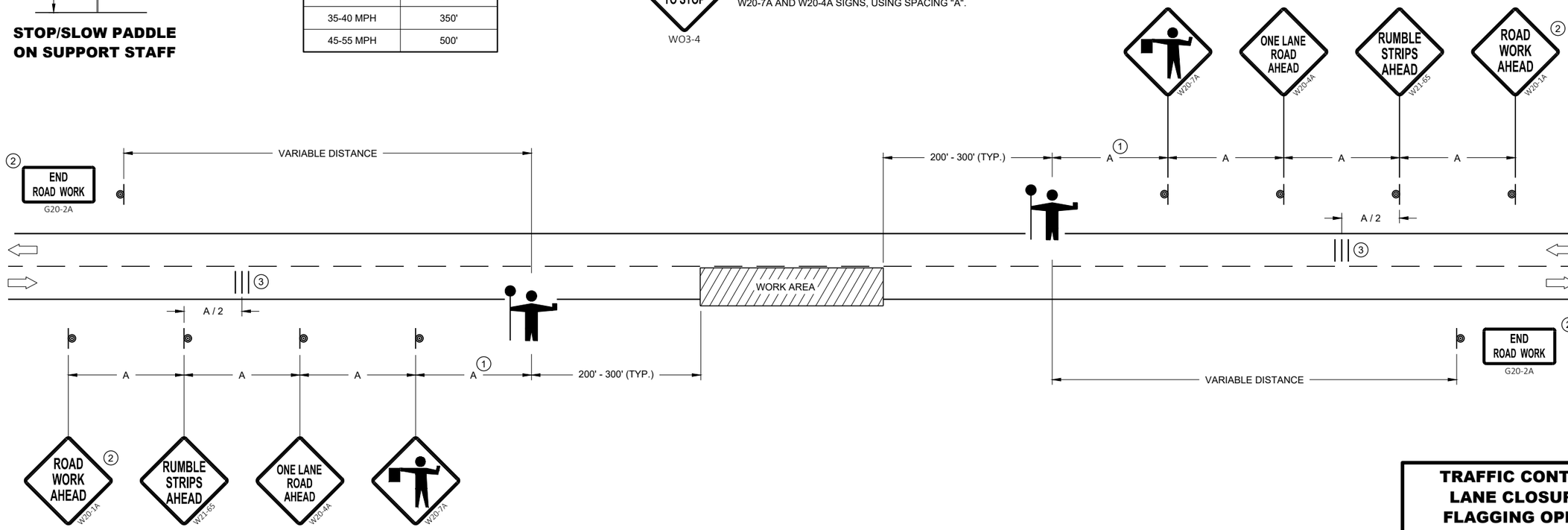
SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

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

6

SDD 15C12 - 09a

6

SDD 15C12 - 09a

GENERAL NOTES

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL CONE 42-INCH

TRAFFIC CONTROL DRUM

TEMPORARY PORTABLE RUMBLE STRIP ARRAY

DIRECTION OF TRAFFIC

WORK AREA

AFAD — AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD)

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

IF THE AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD) STOPS WORKING, 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.

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.

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

(2) IF FLAGGERS ARE PHYSICALLY NEEDED TO FLAG, REPLACE WO3-4 SIGNS WITH W20-7A SIGNS.

TEMPORARY PORTABLE RUMBLE STRIPS

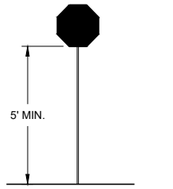
UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

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

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.

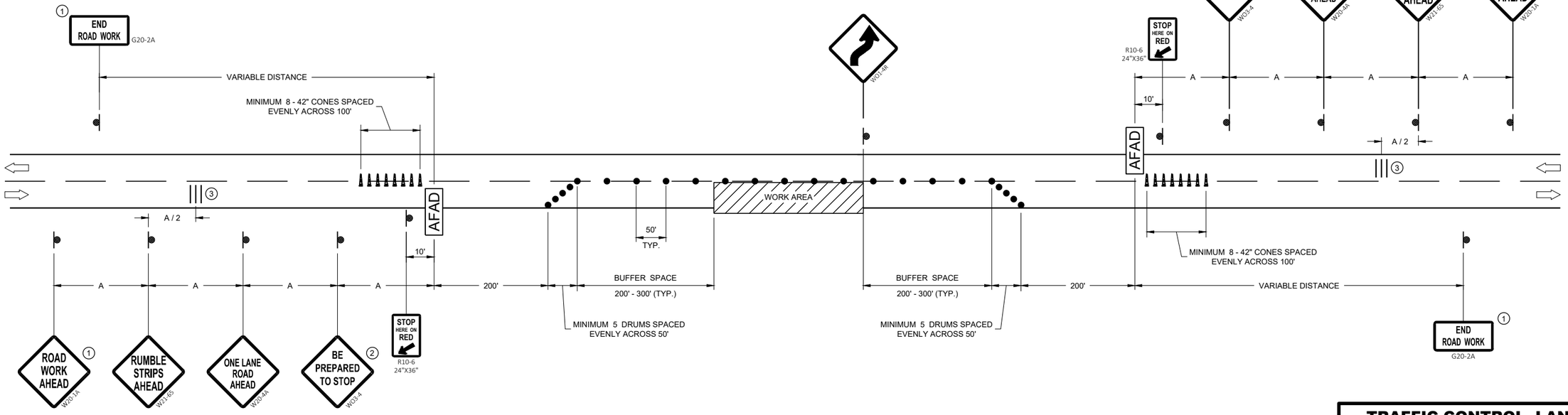
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSELY AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER.



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'



TRAFFIC CONTROL, LANE CLOSURE WITH AUTOMATED FLAGGER ASSISTANCE DEVICE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

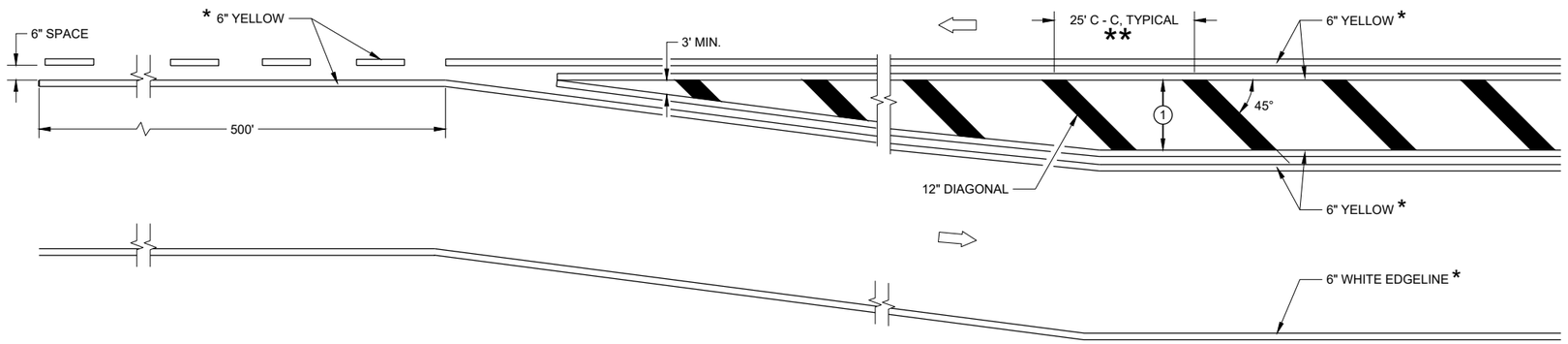
FHWA

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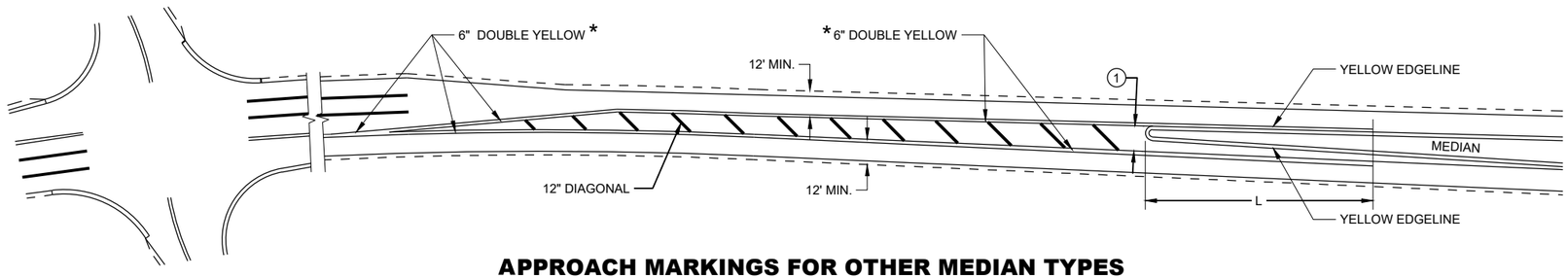
SDD 15C12 - 09b

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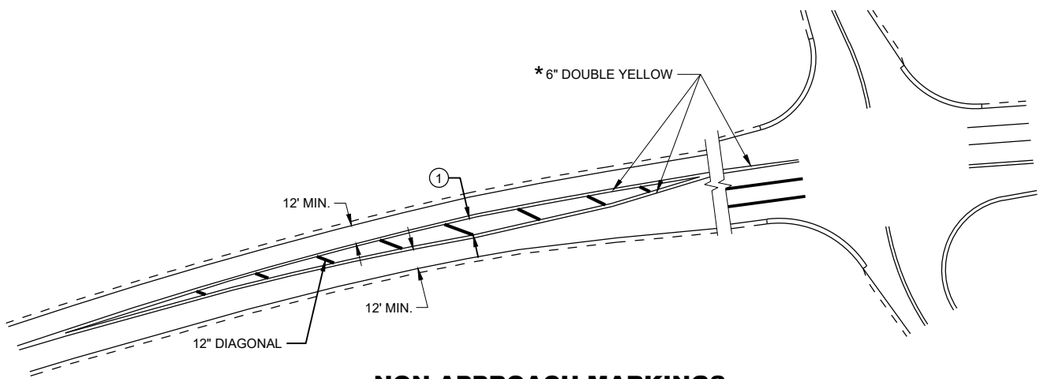
SDD 15C12 - 09b



MEDIAN ISLAND DETAIL



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON-APPROACH MARKINGS

GENERAL NOTES

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

⇨ DIRECTION OF TRAVEL

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

SPEED LIMIT	L
<35 MPH	5'
35> MPH	50'

MEDIAN ISLAND PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Jeannie Silver — STATE SIGNING AND MAF ENGINEER
FHWA

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SDD 15C18-08a

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SDD 15C18-08a

LEGEND

V1 MARKING VEHICLE

V2 SHADOW VEHICLE

V3 TRAIL VEHICLE

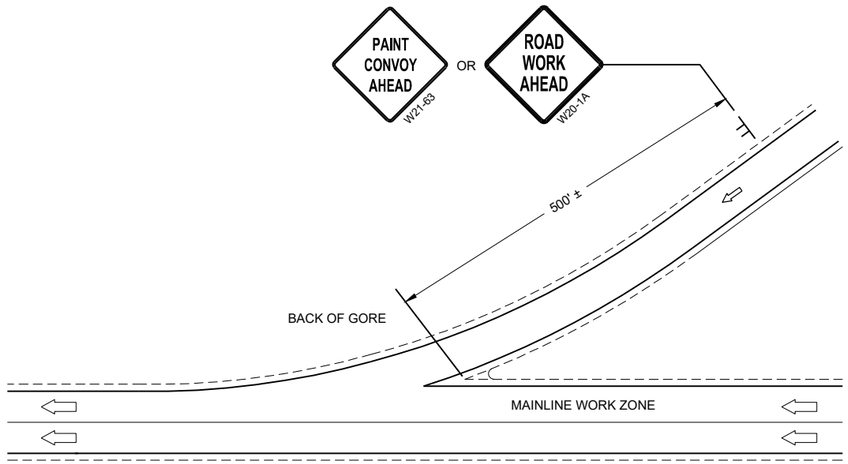
TRUCK MOUNTED ATTENUATOR (TMA)

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

FLASHING ARROW PANEL (MERGE)

FLASHING ARROW PANEL (CAUTION)



GENERAL NOTES

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

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

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

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

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

IF THE SHOULDER IS TOO NARROW TO ACCOMMODATE THE LAST TRAILING VEHICLE, THE VEHICLE SHOULD STRADDLE THE EDGE LINE.

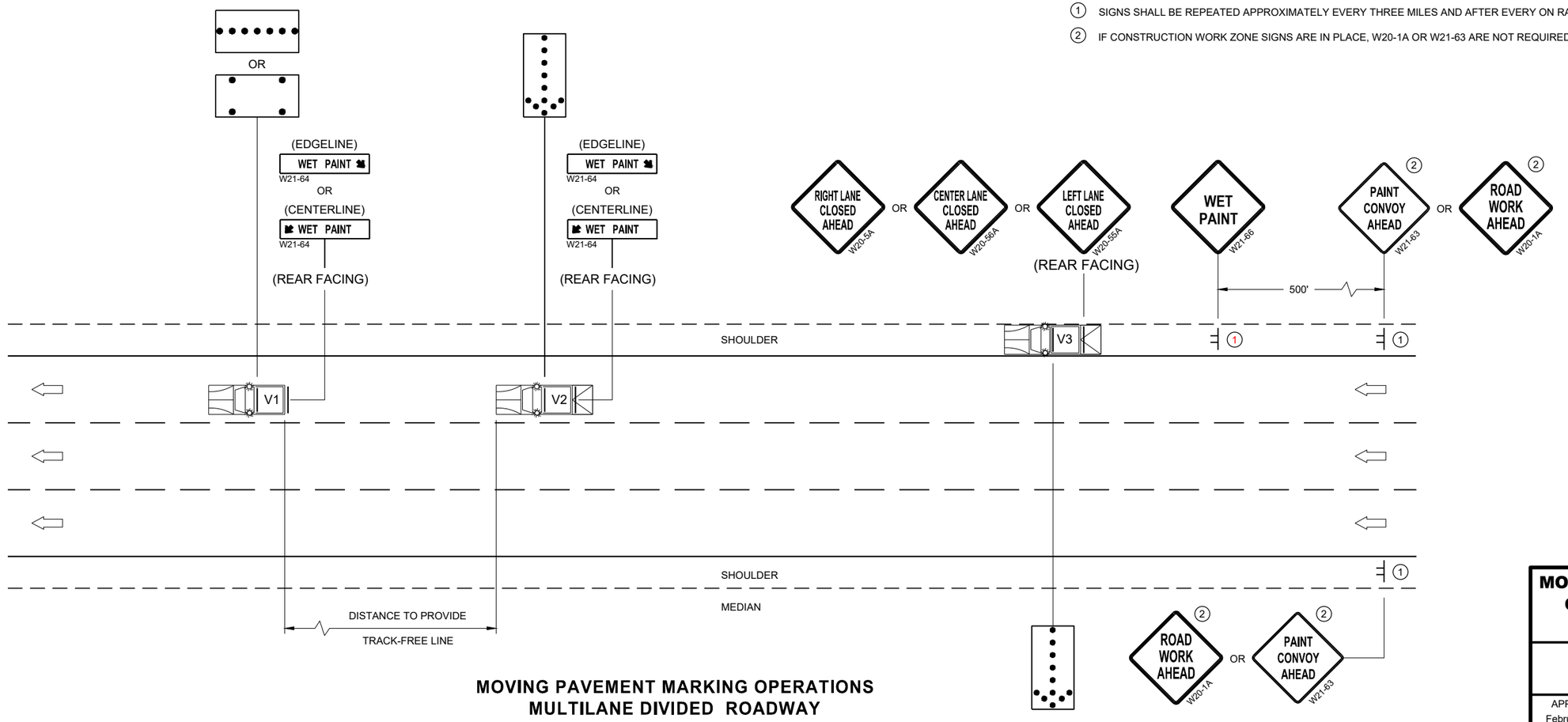
WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC

CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL BE A MINIMUM HEIGHT OF 28" FOR WET PAVEMENT MARKINGS

(1) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES AND AFTER EVERY ON RAMP.

(2) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.



MOVING PAVEMENT MARKING OPERATIONS
MULTILANE DIVIDED ROADWAY

MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2023
DATE

/S/ Andrew [illegible]
WORK ZONE EN

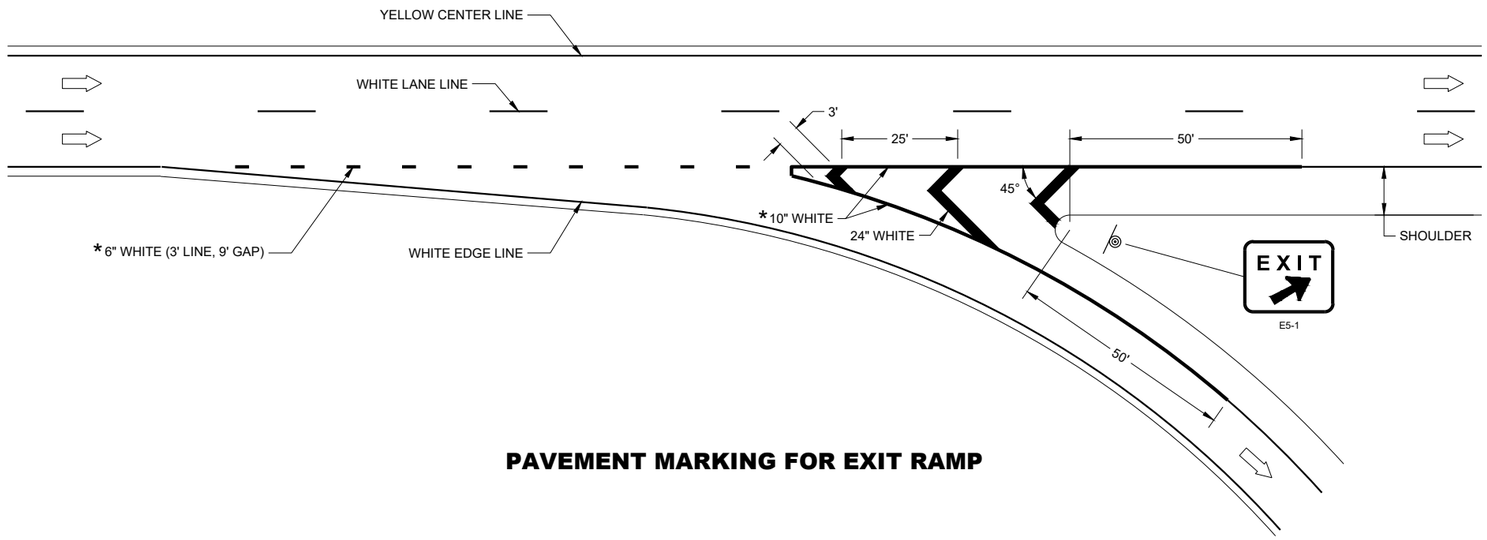
FHWA

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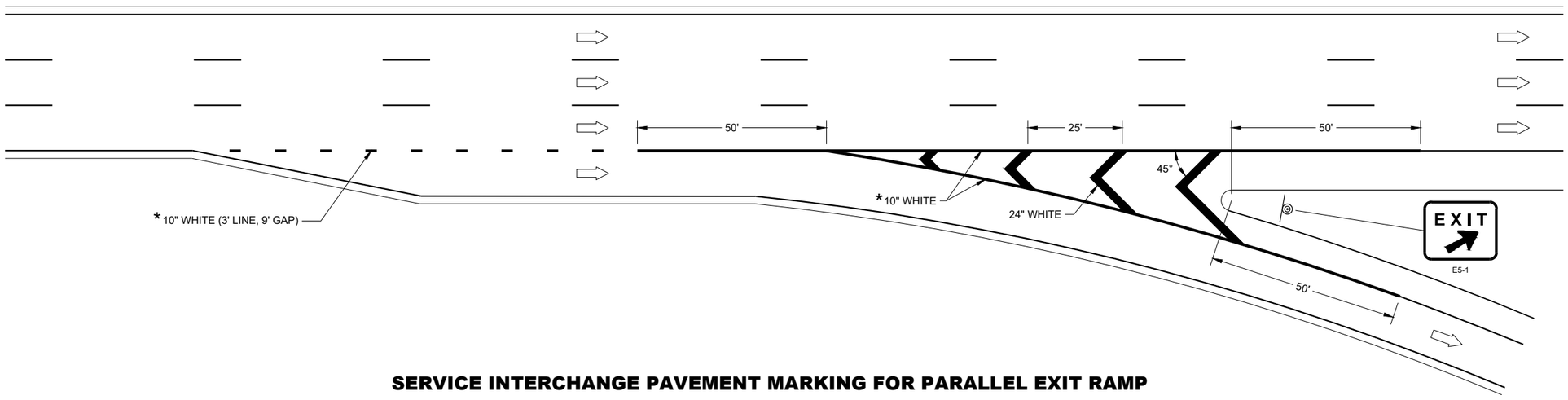
SDD 15C19-08c

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SDD 15C19-08c



PAVEMENT MARKING FOR EXIT RAMP



SERVICE INTERCHANGE PAVEMENT MARKING FOR PARALLEL EXIT RAMP

GENERAL NOTES

PLACE GROOVE 3 INCHES LEFT OF JOINT.

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAVEL

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

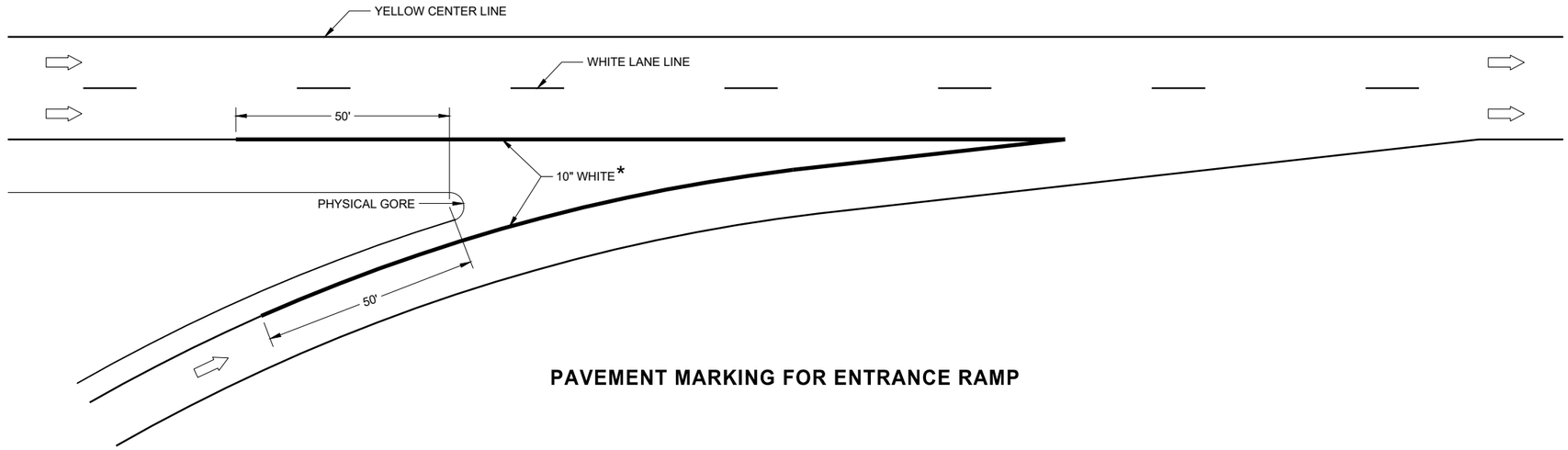
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SDD 15C31-05a

PAVEMENT MARKING, EXIT RAMP AND PARALLEL EXIT RAMP

6

SDD 15C31-05a



PAVEMENT MARKING FOR ENTRANCE RAMP

GENERAL NOTES

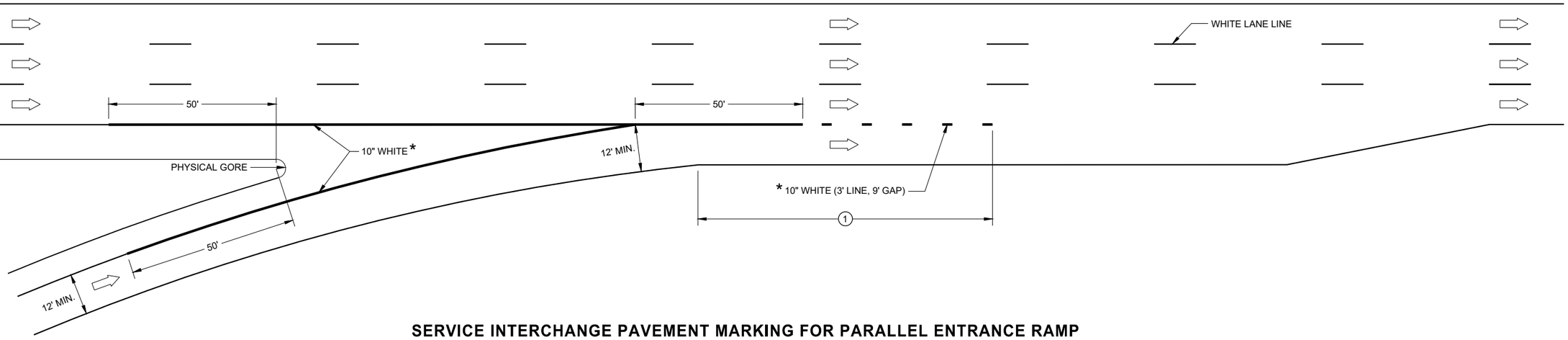
PLACE GROOVE 3 INCHES LEFT OF JOINT.

(1) ½ LENGTH OF FULL WIDTH ACCELERATION LANE.

LEGEND

DIRECTION OF TRAVEL

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



SERVICE INTERCHANGE PAVEMENT MARKING FOR PARALLEL ENTRANCE RAMP

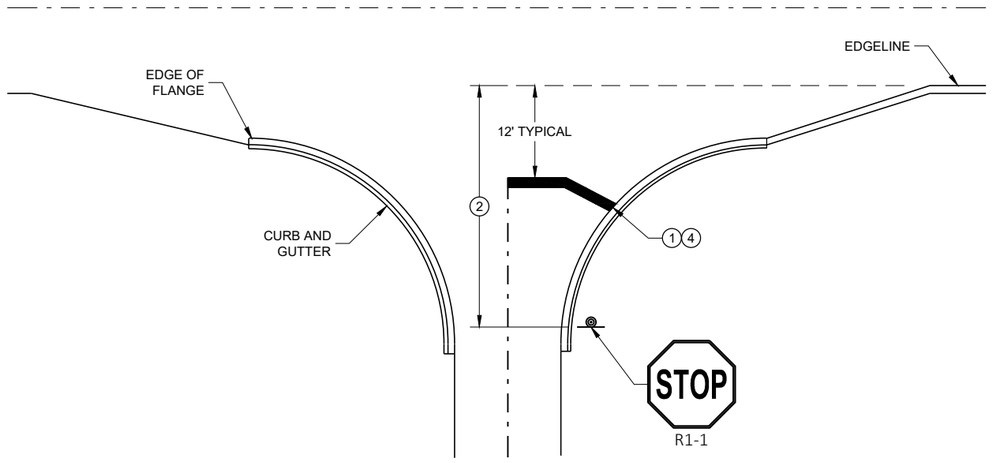
PAVEMENT MARKING, ENTRANCE RAMP AND PARALLEL ENTRANCE RAMP

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SDD 15C31-05c

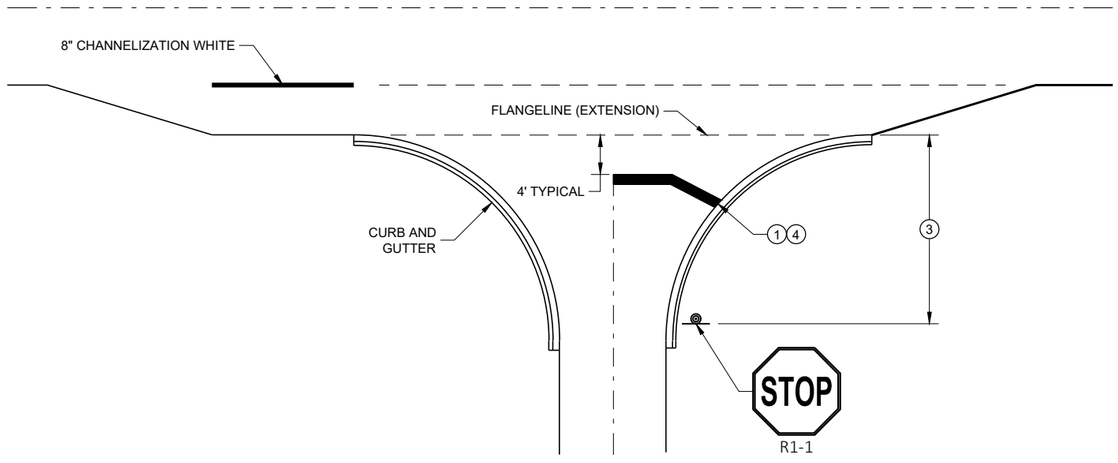
GENERAL NOTES

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

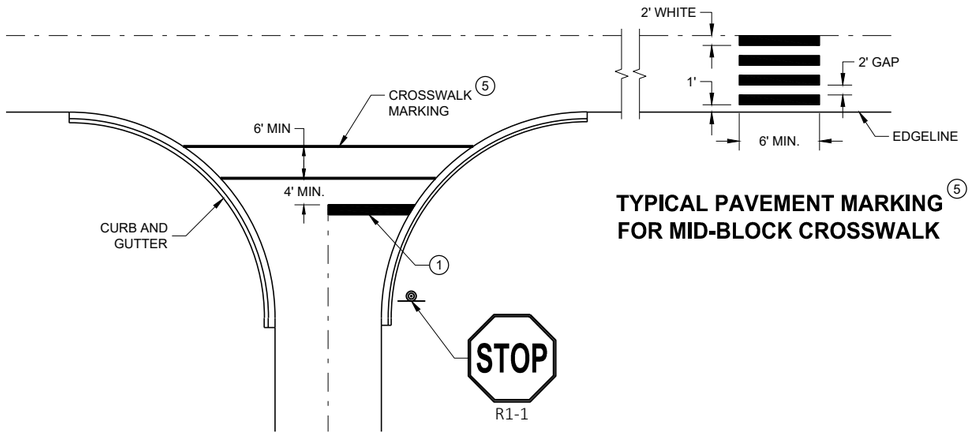
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE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



TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

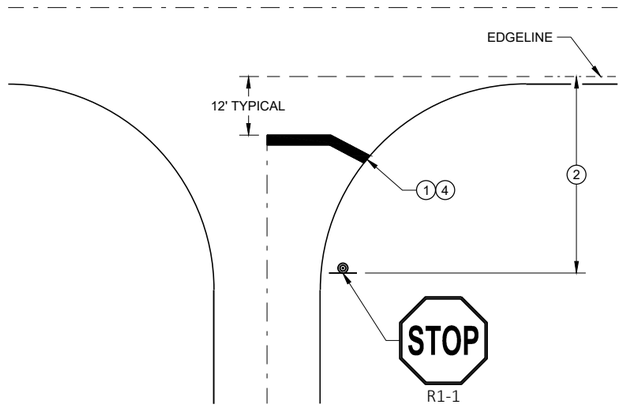


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK 5

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

6

SDD 15C33 - 04

LEGEND

- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH 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.

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.

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

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

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

IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS /OR DRUMS IN THE GORE BETWEEN THE EXIT RAMP AND MAINLINE TRAFFIC.

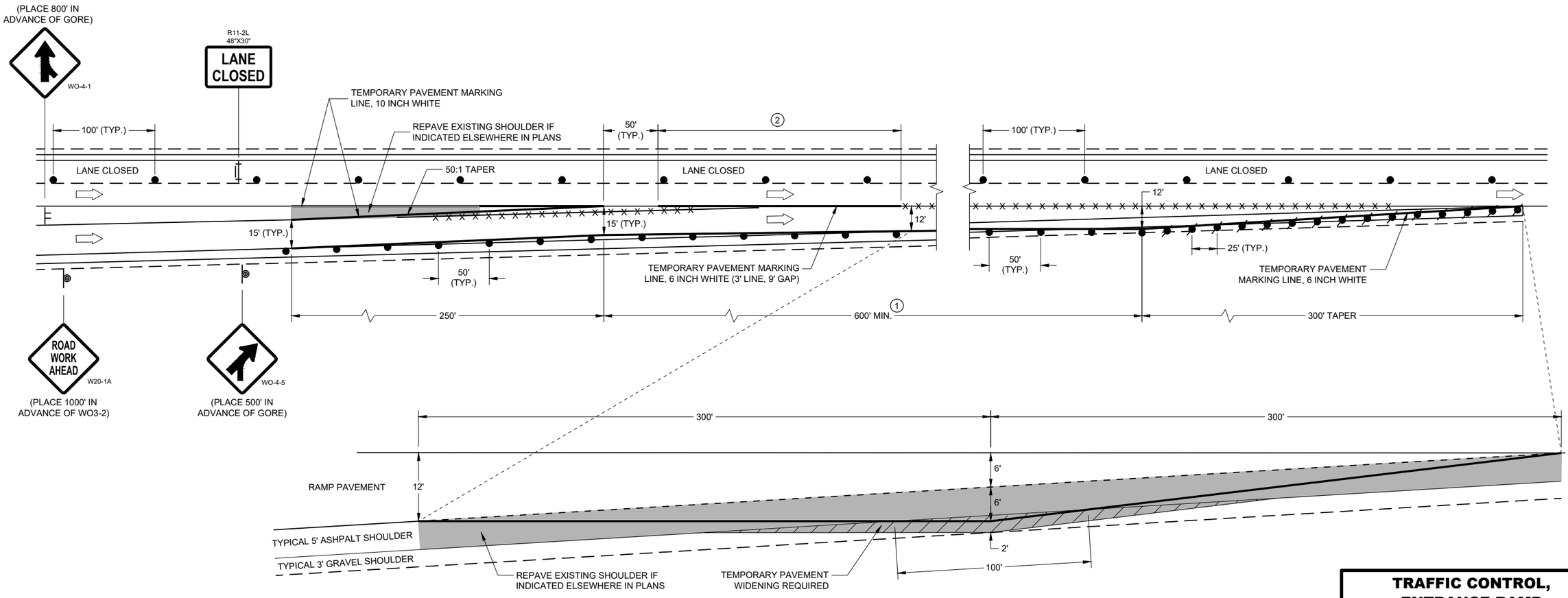
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINES IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

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

(1) EXTEND THE LENGTH OF THE MERGE AREA IF THE ENTERING (DESIGN) SPEED OF THE RAMP IS LESS THAN 50 MPH OR IF THE MAINLINE GRADE EXCEEDS ±2.2%.

(2) END TEMPORARY PAVEMENT MARKING LINE AT ½ THE LENGTH OF FULL WIDTH OF THE ACCELERATION LANE.



TEMPORARY PAVEMENT DETAIL

(EXISTING RAMP DIMENSIONS MAY VARY, ADJUST TEMPORARY PAVEMENT ACCORDINGLY)

TRAFFIC CONTROL, ENTRANCE RAMP WITHIN LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

FHWA

6

SDD 15D15-07b

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SDD 15D15-07b

LEGEND

SIGN ON PERMANENT SUPPORT

SIGN ON TEMPORARY SUPPORT

TRAFFIC CONTROL DRUM

TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

TYPE III BARRICADE WITH ATTACHED SIGN

FLAGS, 16" X 16" MIN., ORANGE

DIRECTION OF TRAFFIC

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH 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.

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.

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

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

YIELD SIGN AND WARNING SIGNS ON ENTRANCE RAMP ARE ALSO APPROPRIATE FOR CLOSURE OF THE MAINLINE LEFT LANE. OMIT THE YIELD SIGN IF MORE THAN ONE LANE REMAINS OPEN ON THE MAINLINE AND THE RAMP TAPER IS AT LEAST AS LONG AS THE NORMAL ENTRANCE RAMP TAPER AT THE SITE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONSECUTIVE DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS. USE SUPPORTS THAT PROVIDE A MINIMUM OF 5 FEET FROM THE BOTTOM OF THE SIGN TO THE PAVEMENT.

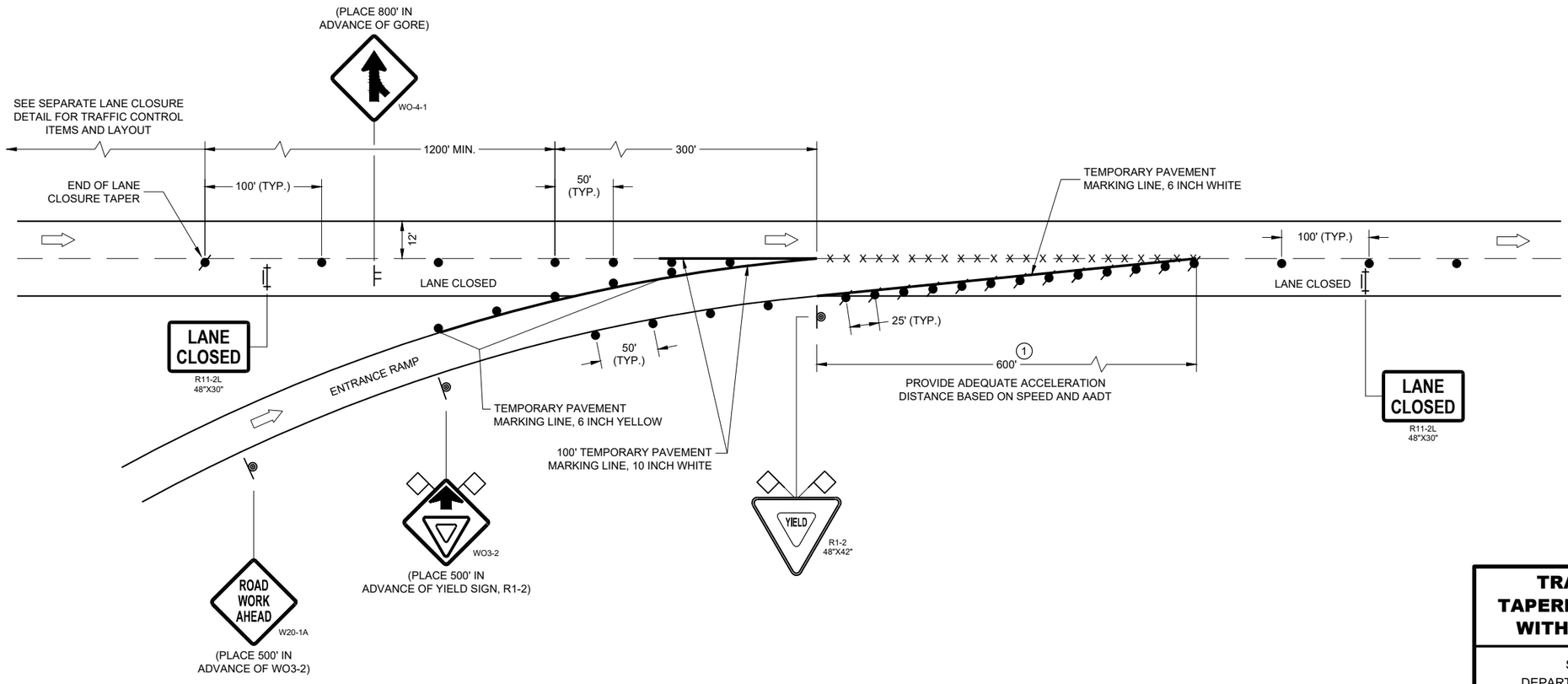
IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE ENTRANCE RAMP AND MAINLINE TRAFFIC.

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.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINES IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

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

(1) CONSULT WITH REGIONAL WORK ZONE ENGINEER IF NEED TO REDUCE LENGTH EXISTS.



TRAFFIC CONTROL, TAPERED ENTRANCE RAMP WITHIN LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

6

SDD 15D15-07c

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SDD 15D15-07c

LEGEND

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

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH 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.

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.

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

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

YIELD SIGN AND WARNING SIGNS ON ENTRANCE RAMP ARE ALSO APPROPRIATE FOR CLOSURE OF THE MAINLINE LEFT LANE. OMIT THE YIELD SIGN IF MORE THAN ONE LANE REMAINS OPEN ON THE MAINLINE AND THE RAMP TAPER IS AT LEAST AS LONG AS THE NORMAL ENTRANCE RAMP TAPER AT THE SITE.

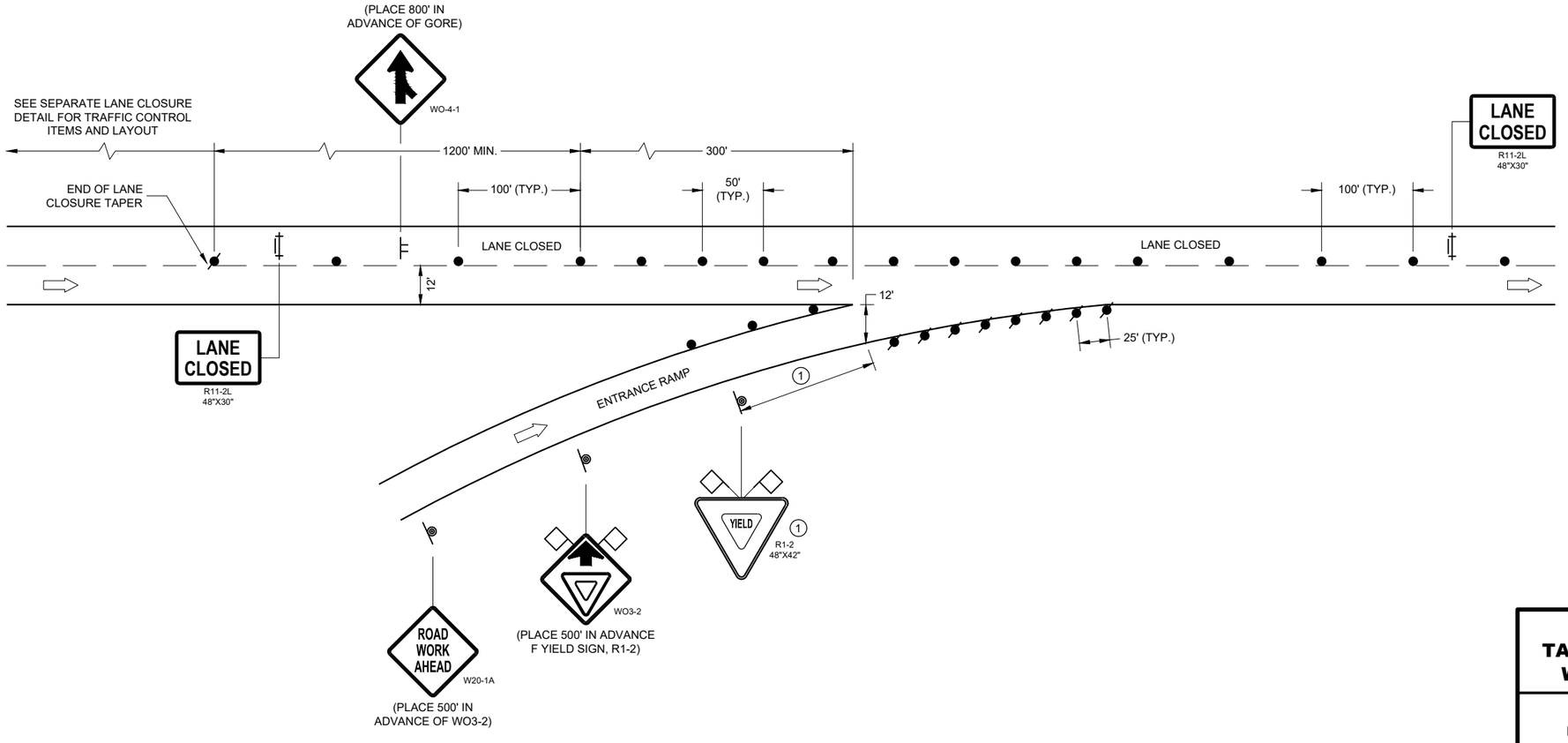
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONSECUTIVE DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS. USE SUPPORTS THAT PROVIDE A MINIMUM OF 5 FEET FROM THE BOTTOM OF THE SIGN TO THE PAVEMENT.

IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE ENTRANCE RAMP AND MAINLINE TRAFFIC.

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.

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

(1) PLACE YIELD SIGN TO PROVIDE ADEQUATE SIGHT DISTANCE AND ACCELERATION DISTANCE.



TRAFFIC CONTROL, TAPERED ENTRANCE RAMP WITHIN LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

FHWA

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SDD 15D15-07d

SDD 15D15-07d

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- CONCRETE BARRIER TEMPORARY PRECAST

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	SHIFTING TAPER L/2 W, LATERAL OFFSET (FT)								
	1	2	3	4	5	6	7	8	9
50	25	50	75	100	125	150	175	200	225
55	28	55	83	110	138	165	193	220	248
60	30	60	90	120	150	180	210	240	270
65	33	65	98	130	163	195	228	260	293
70	35	70	105	140	175	210	245	280	315

GENERAL NOTES

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR LANE SHIFT LEFT - REVERSE FOR SHIFTING RIGHT.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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. NO WARNING LIGHTS SHALL BE WORKING ON ANY "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

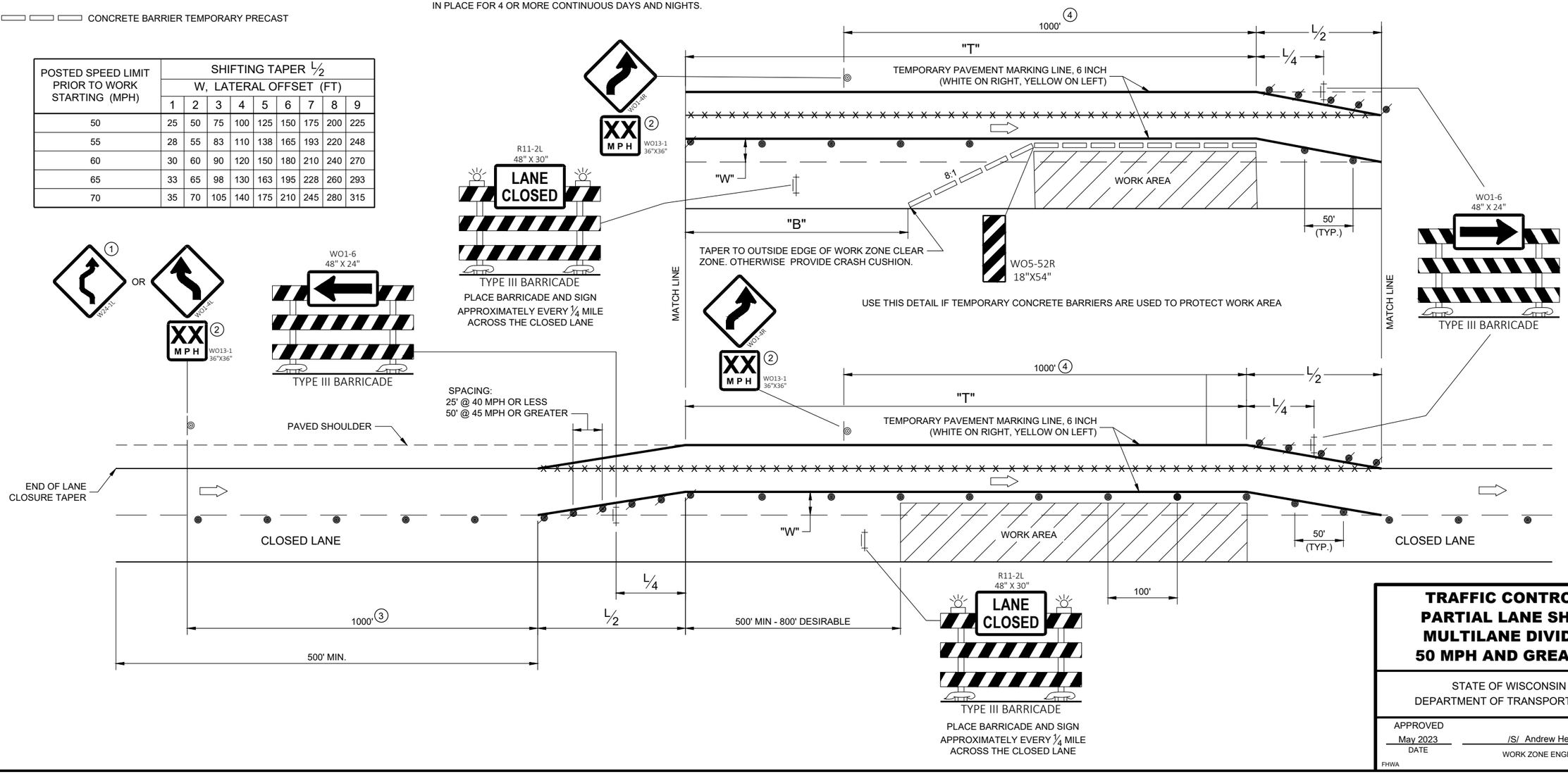
REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINES IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

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

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE SHIFT OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

1. USE ONLY WHEN T<600', OMIT WO1-4R.
2. IF NEEDED, USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.
3. IF THE BEGINNING OF LANE SHIFT TAPER IS 1200 FEET OR LESS FROM END OF LANE CLOSURE TAPER, PLACE THE WO1-4L SIGN 200 FEET AFTER THE END OF THE LANE CLOSURE TAPER.
4. IF THE BEGINNING OF THE SECOND LANE SHIFT TAPER IS 1200 FEET OR LESS FROM END OF THE FIRST LANE CLOSURE TAPER, PLACE THE WO1-4L SIGN 200 FEET AFTER THE END OF THE FIRST LANE CLOSURE TAPER.



TRAFFIC CONTROL, PARTIAL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

SDD 15D40-05d

SDD 15D40-05d

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHIFTING TAPER L/2 W, LATERAL OFFSET (FT)					
		3	4	5	6	7	8
25	200	10	14	17	21	24	28
30	200	15	20	25	30	35	40
35	350	20	27	34	40	47	54
40	350	26	35	44	53	62	70
45	500	45	59	74	89	104	119
50	500	50	66	83	99	116	132
55	500	54	73	91	109	127	145

GENERAL NOTES

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"x36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

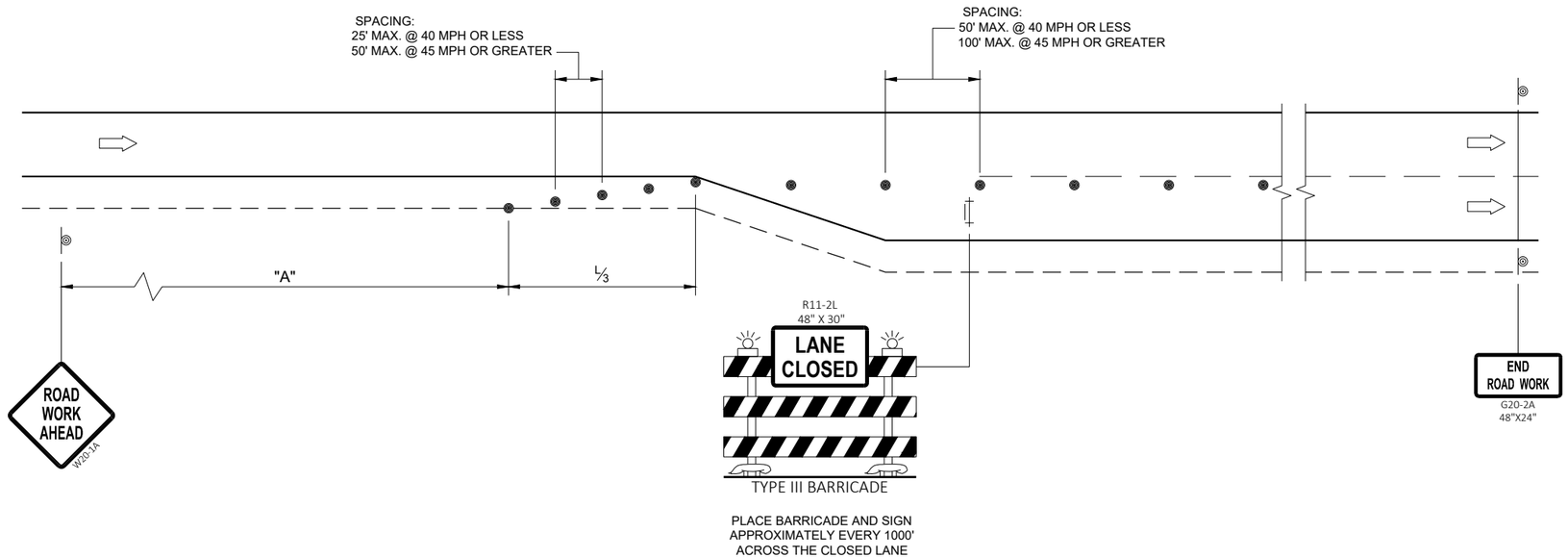
"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

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.

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.

W20-1 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 WORK IS LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS.



PLACE BARRICADE AND SIGN APPROXIMATELY EVERY 1000' ACROSS THE CLOSED LANE

TRAFFIC CONTROL
ADDED LANE CLOSURE
WITHOUT LANE SHIFT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6
SDD 15D50-03a

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHIFTING TAPER (L/2) FEET
25	200	60
30	200	90
35	350	120
40	350	160
45	500	270
50	500	300
55	500	330

GENERAL NOTES

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"x36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

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

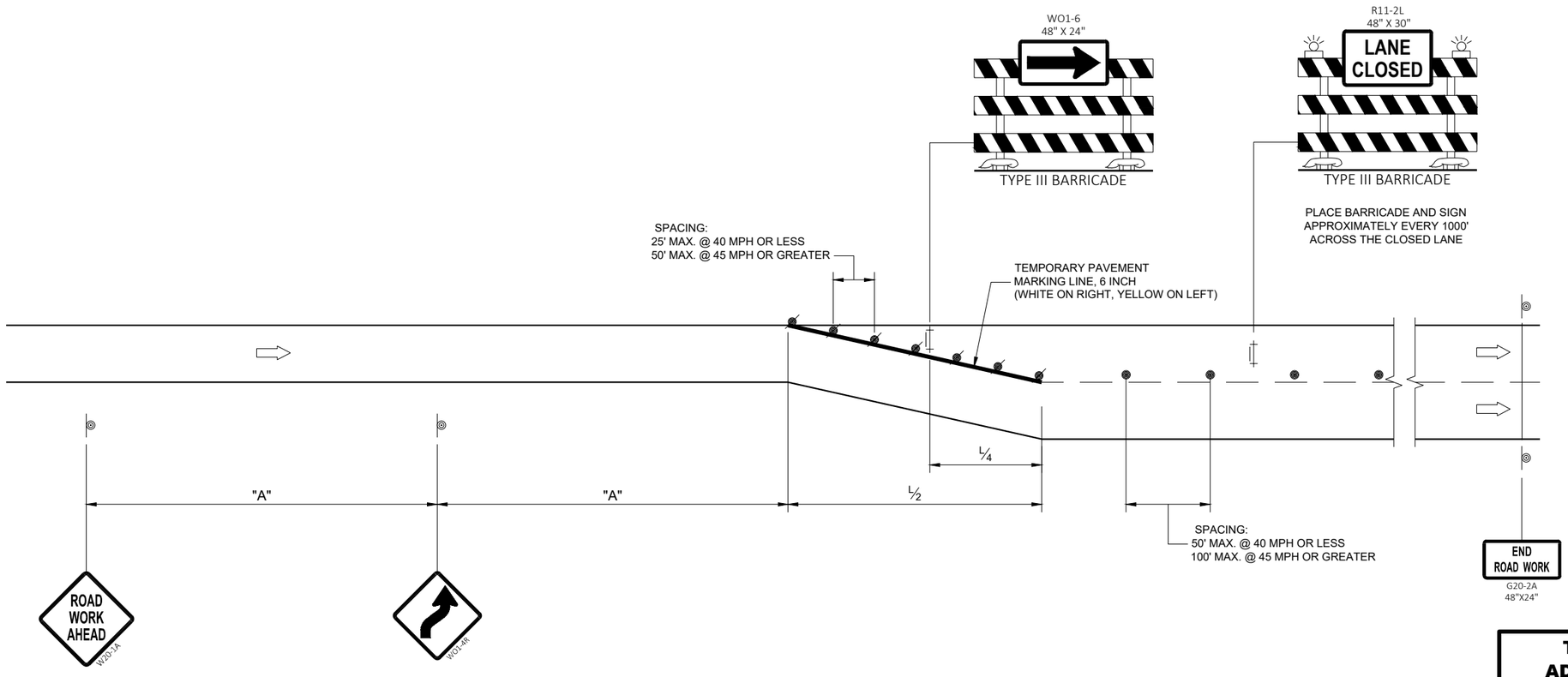
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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 SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

W20-1 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 WORK IS LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS.

PLACE TEMPORARY PAVEMENT MARKING AND PLACE TEMPORARY PAVEMENT LINE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.



TRAFFIC CONTROL, ADDED LANE CLOSURE WITH LANE SHIFT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

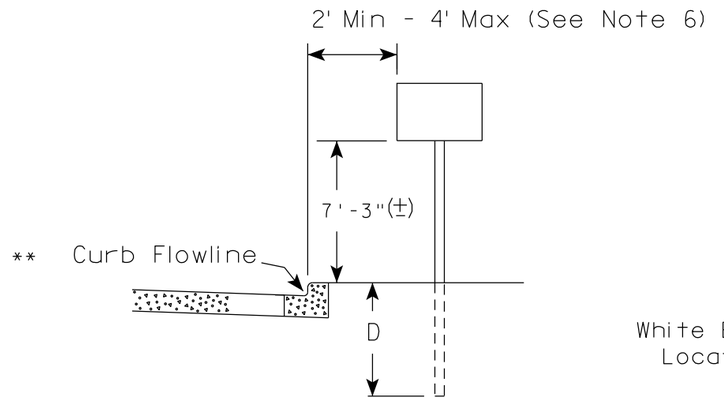
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SDD 15D50-03b

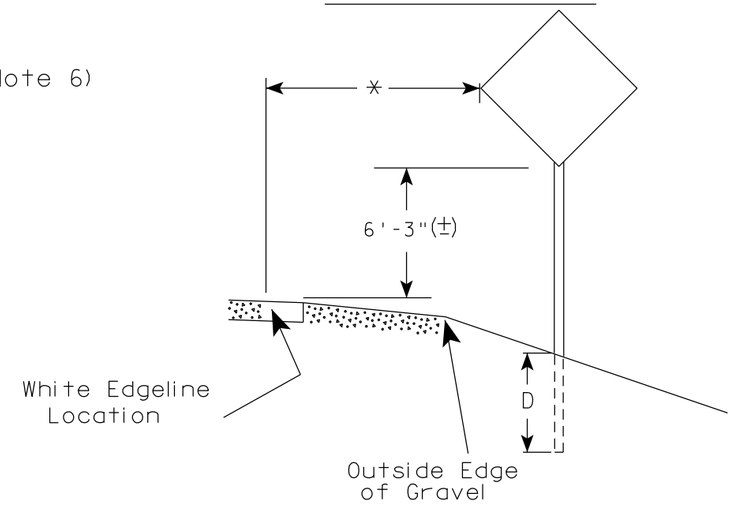
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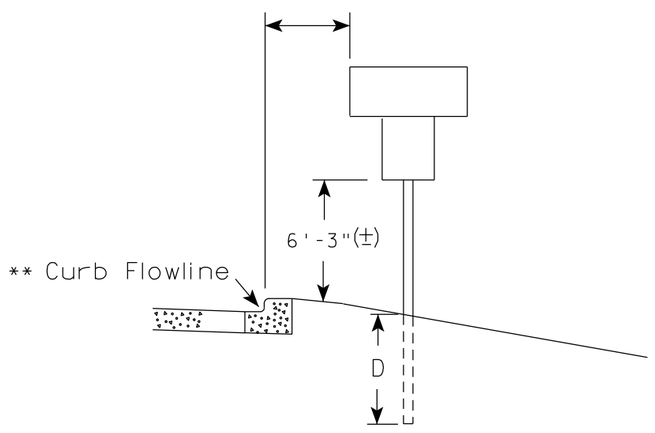
SDD 15D50-03b

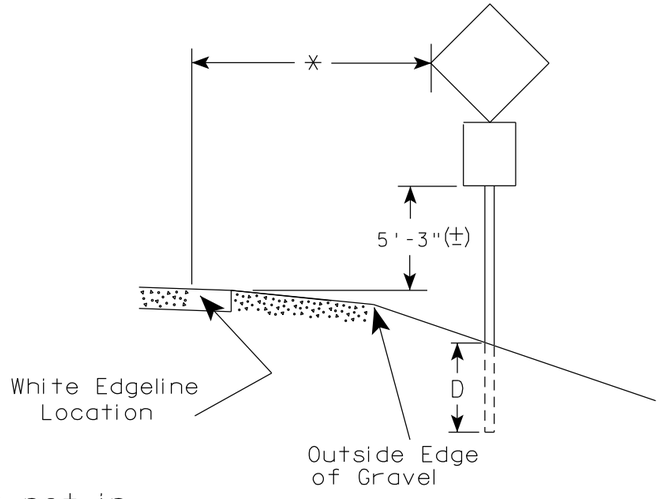
URBAN AREA



RURAL AREA (See Note 2)







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

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

POST EMBEDMENT DEPTH

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

GENERAL NOTES

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

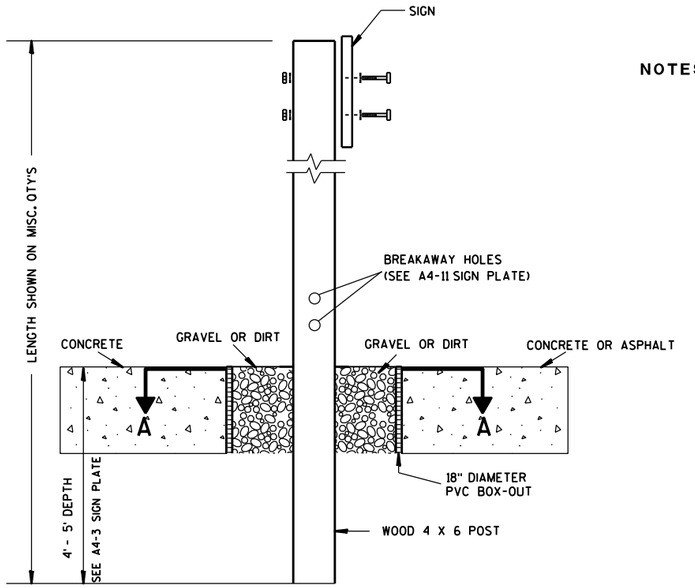
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

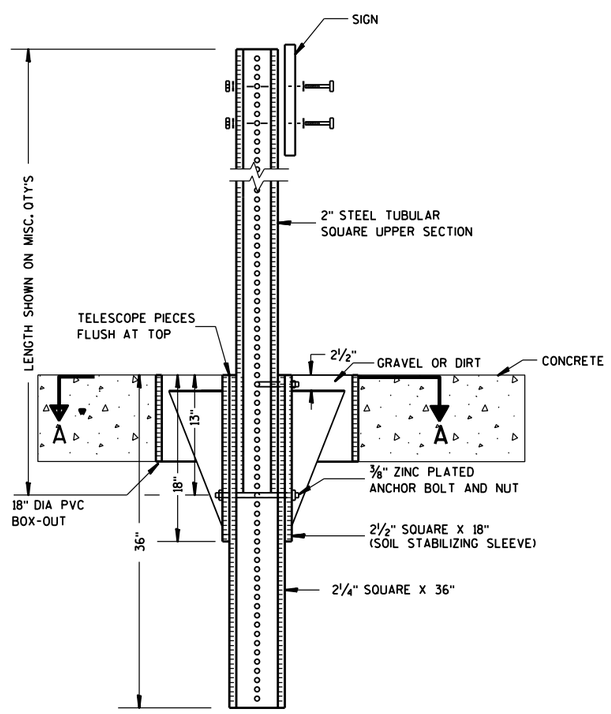
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 198	E



ELEVATION VIEW

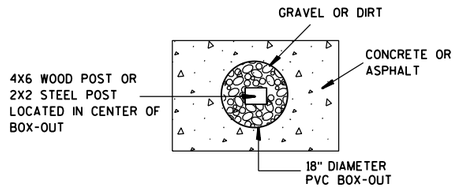
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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



ELEVATION VIEW

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



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

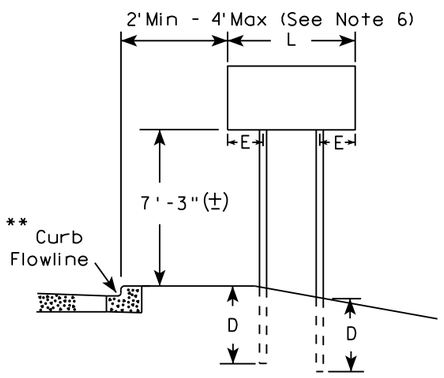
APPROVED Matthew R Rauch
for State Traffic Engineer

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

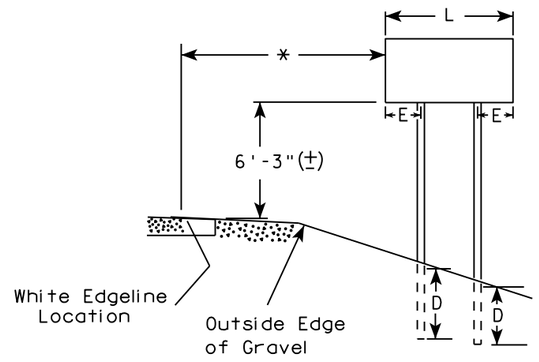
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

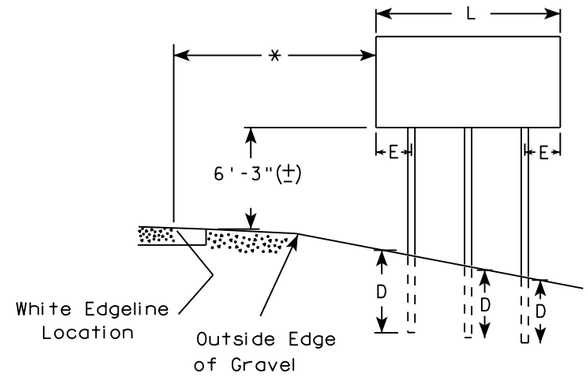
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

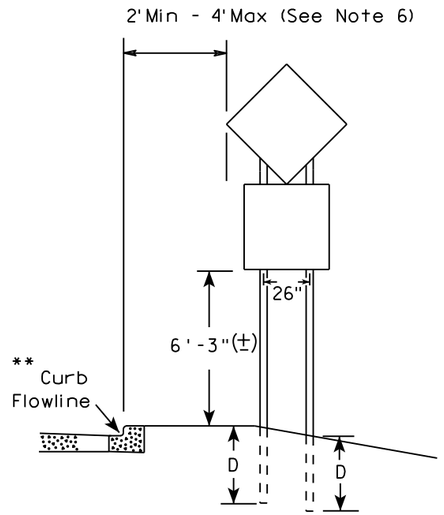
URBAN AREA



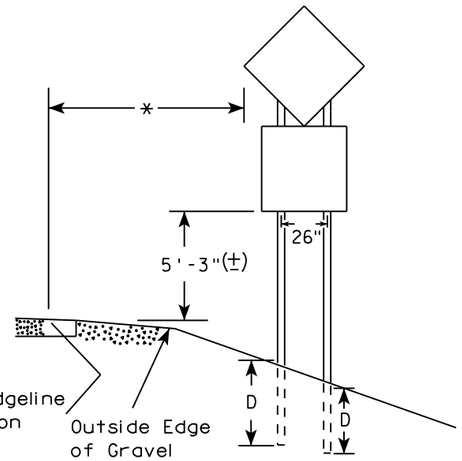
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

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

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

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

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

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

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

POST EMBEDMENT DEPTH

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

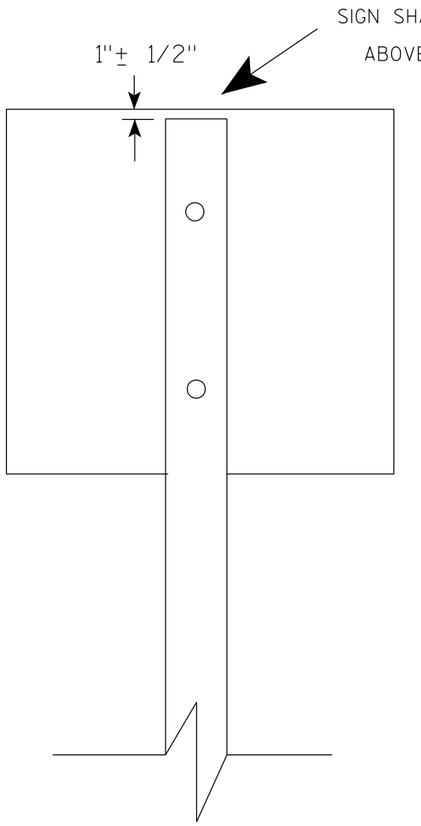
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

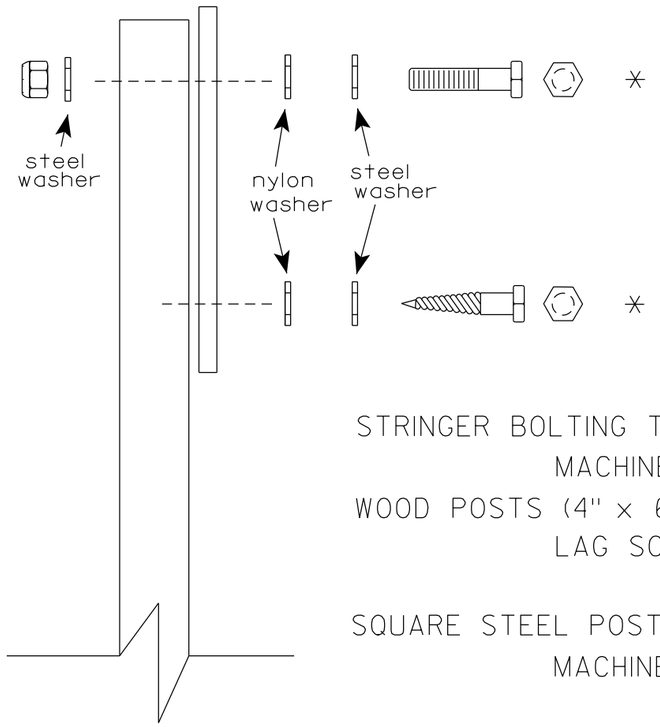
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 200	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

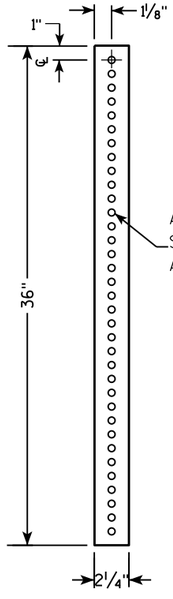
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

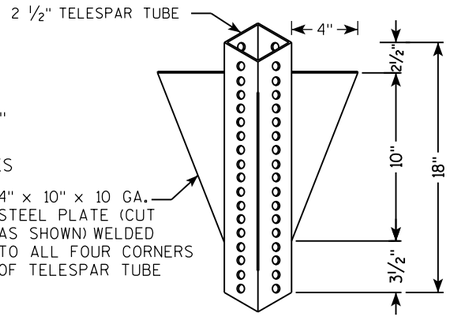
DATE 4/1/2020 PLATE NO. A4-8.9

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

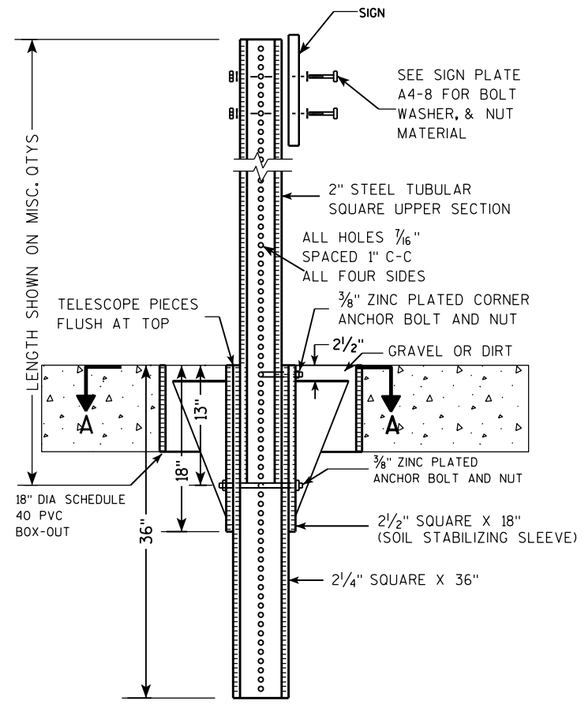
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



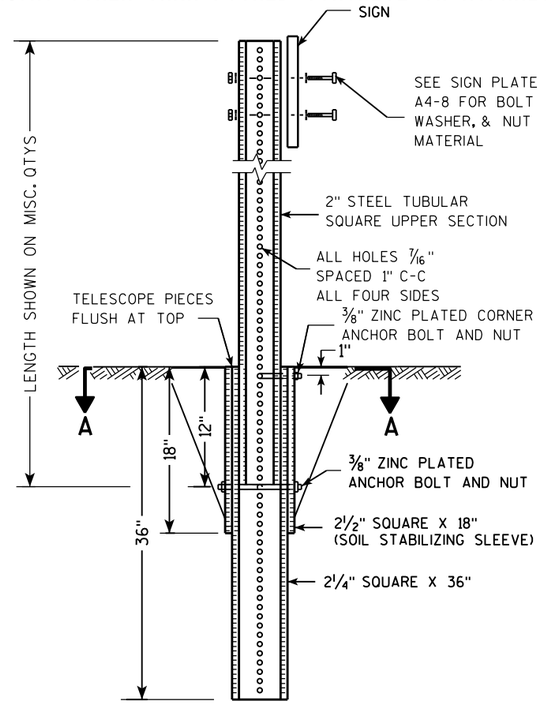
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

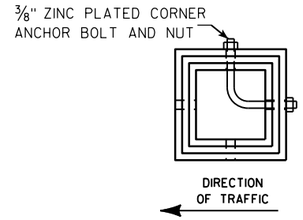


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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).

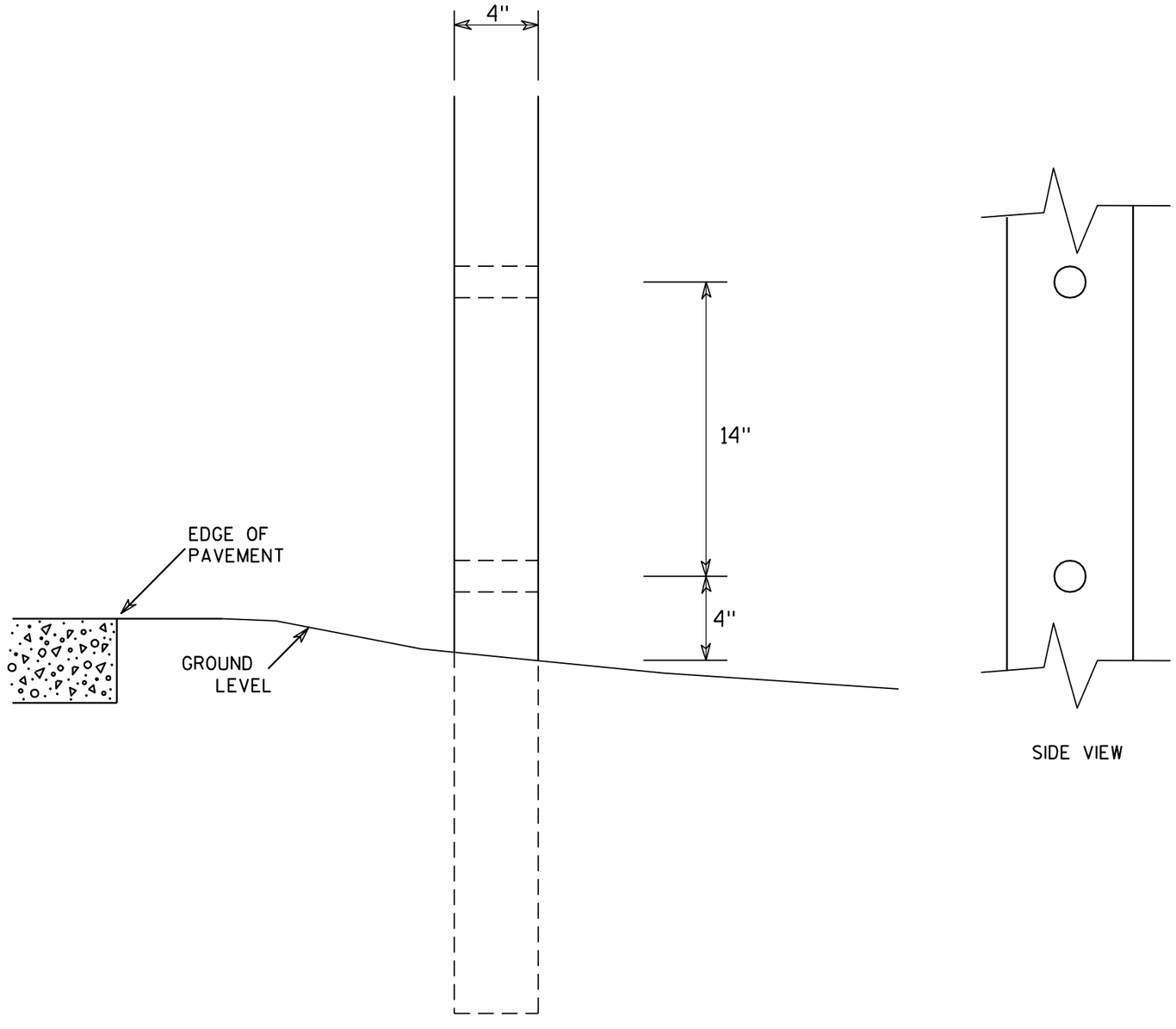
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 202 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



SIDE VIEW

GENERAL NOTES

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

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

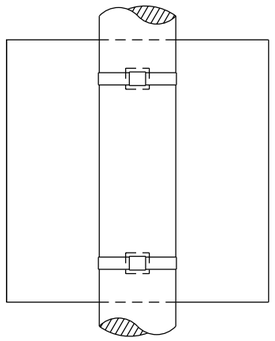
APPROVED Chester J Spang for State Traffic Engineer

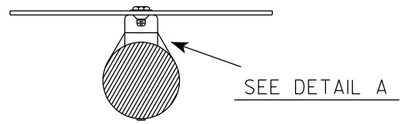
DATE 3/27/97 PLATE NO. A4-11.2

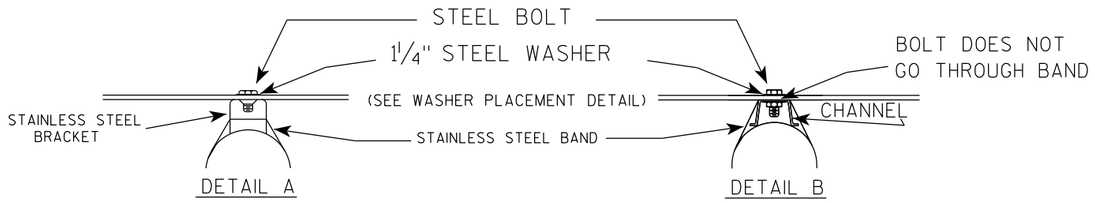
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 203	E

BANDING

SINGLE SIGN



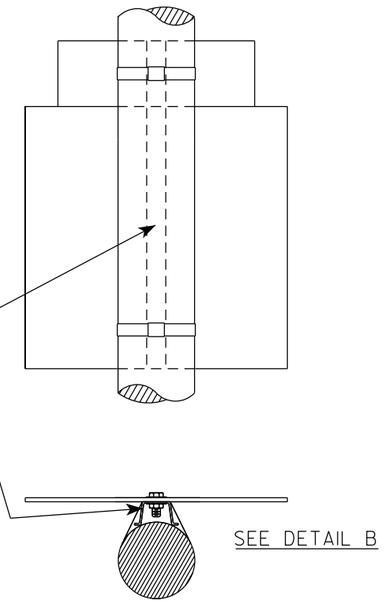




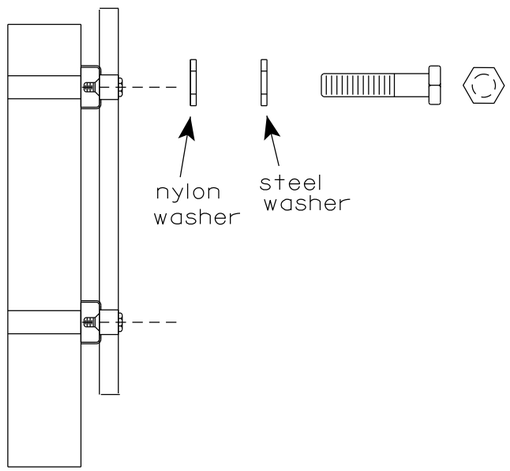
GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X ⅜" I.D. X 1/16" STEEL
1-1/4" O.D. X ⅜" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

STANDARD SIGN
SIGN BANDING DETAILS

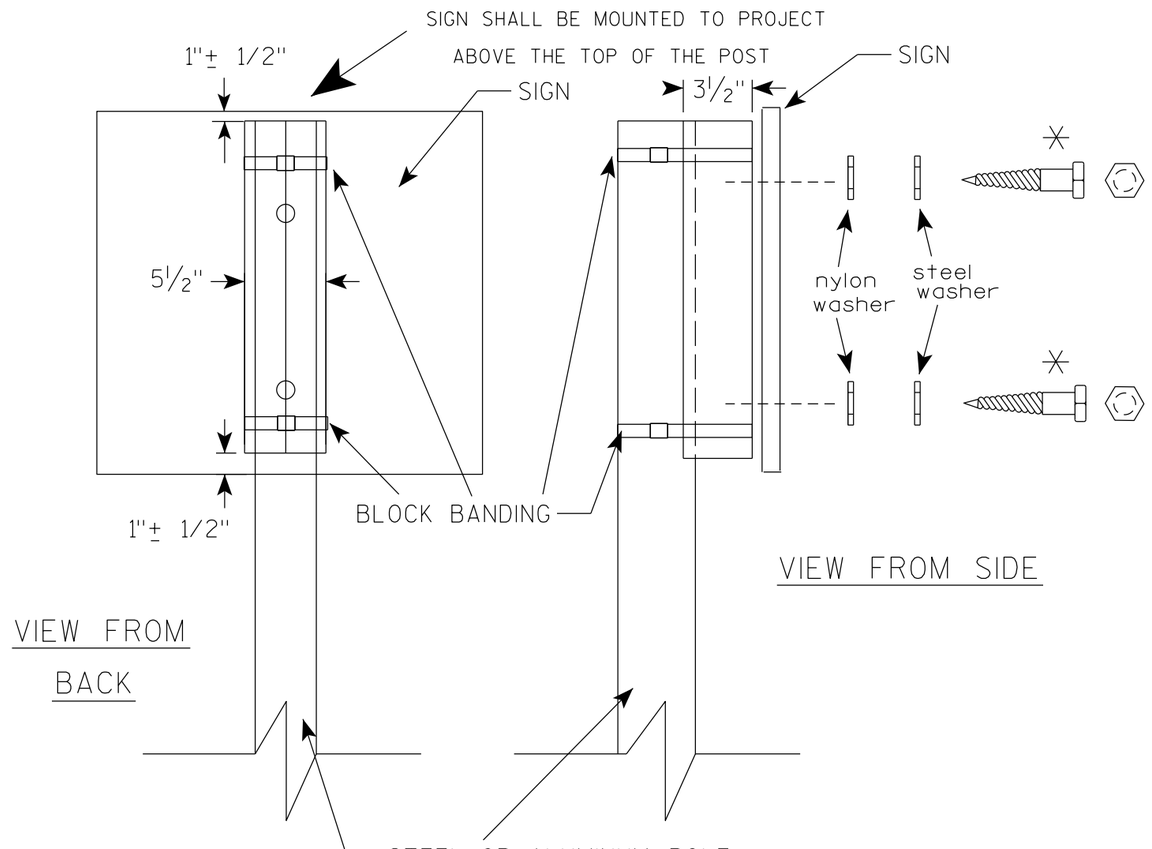
WISCONSIN DEPT OF TRANSPORTATION

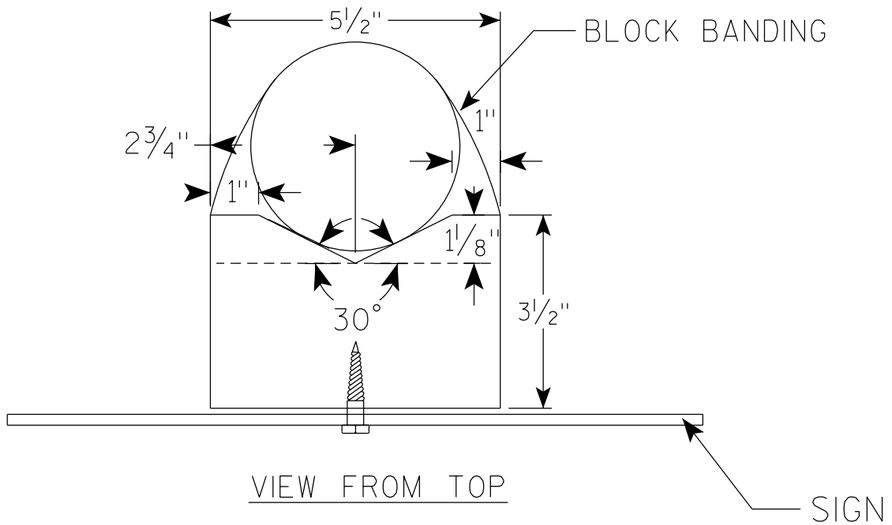
APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 204	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$





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)

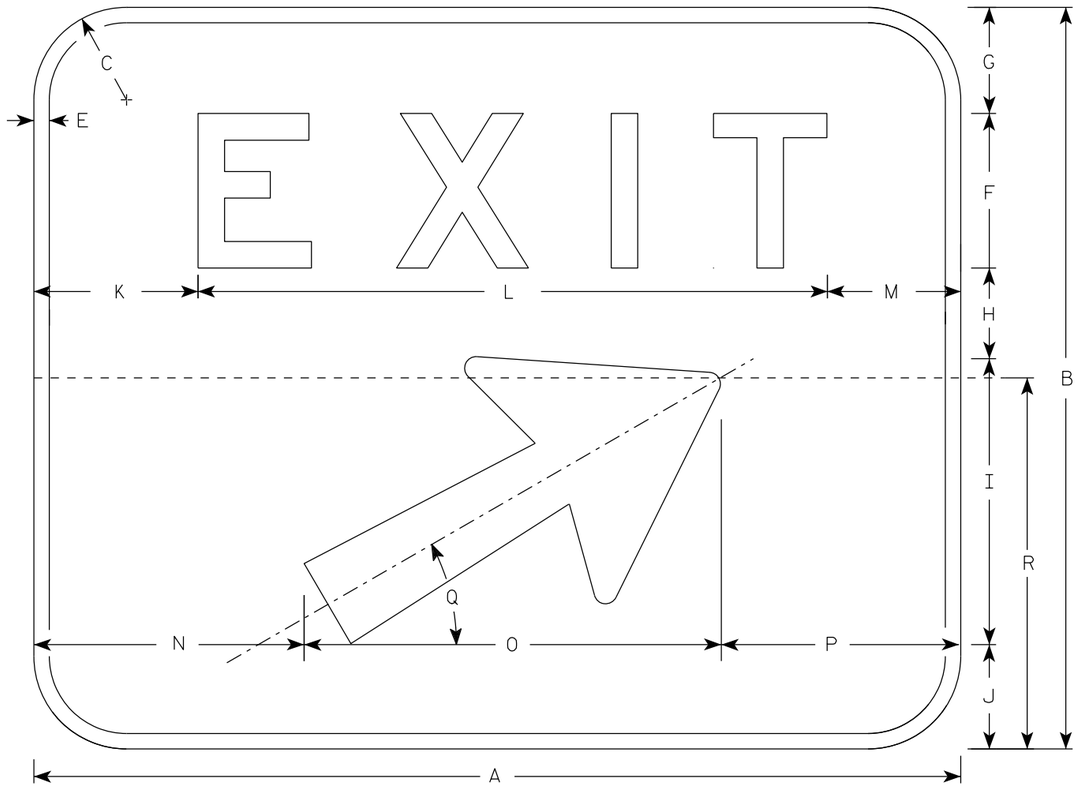
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:

SHEET NO: 205 E



E5-1

NOTES

1. Sign is Type II - Type H reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E
4. Sign shall be split into two seperate pieces as shown on the detail by the dashed line (----------) for sizes 4 & 5.
5. Arrow is Type "A" from sign plate A1-1.
6. As per the Standard Spec's, this sign shall not have a vertical joint.
7. Size 3 E5-1 shall only be used in a Work Zone application with a Temporary Sign Support

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																											
3	48	48	6		1	10	6 7/8	5 7/8	18 1/2	6 3/4	8 1/2	31 1/8	8 3/8	11 1/2	27	9 1/2	30°	30									16.0
4	60	48	6		1	10	6 7/8	5 7/8	18 1/2	6 3/4	10 5/8	40 3/4	8 5/8	17 1/2	27	15 1/2	30°	30									20.0
5	72	60	6		1	12	9 3/4	10	18 1/2	9 3/4	13 1/4	48 1/2	10 1/4	23 1/2	27	21 1/2	30°	30									30.0

STANDARD SIGN
E5-1

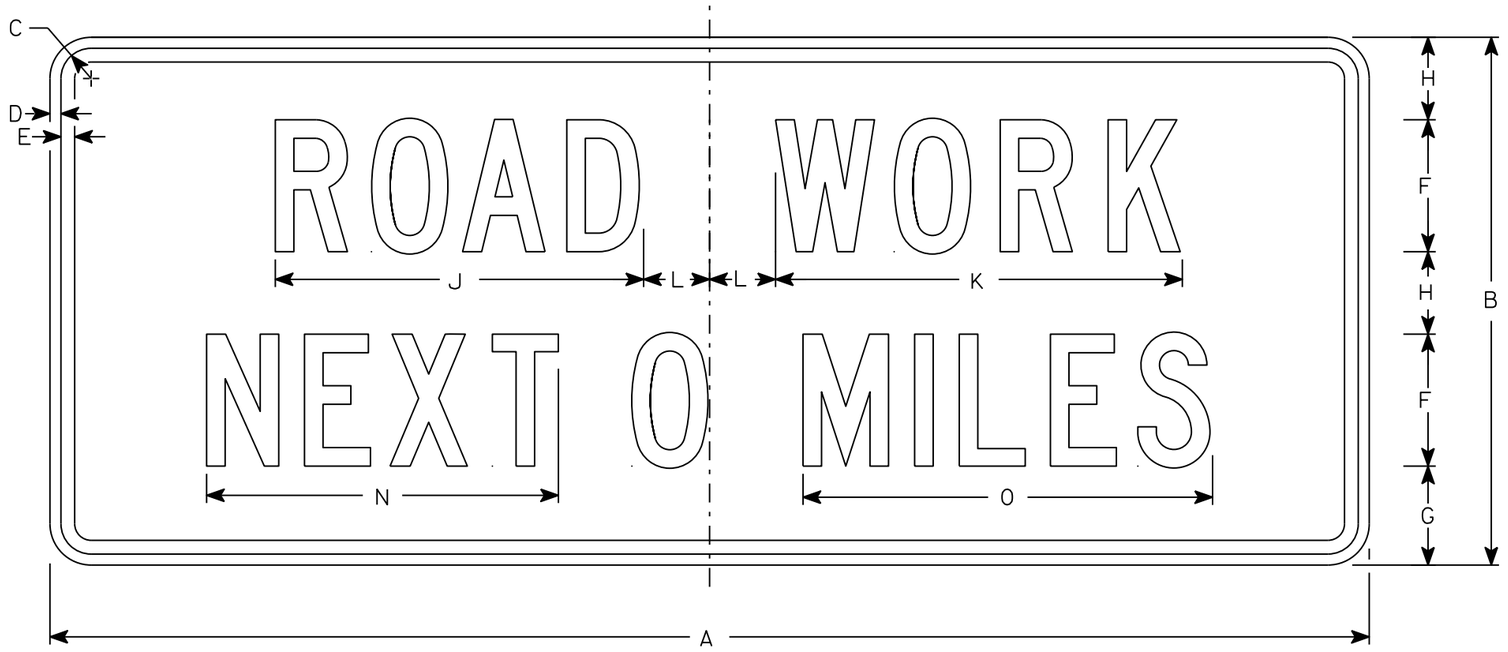
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/9/2022 PLATE NO. E5-1.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 206 | E

7



G20-1

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. Round distance to nearest whole Mile and 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																											
2	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10
3																											
4	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10
5																											

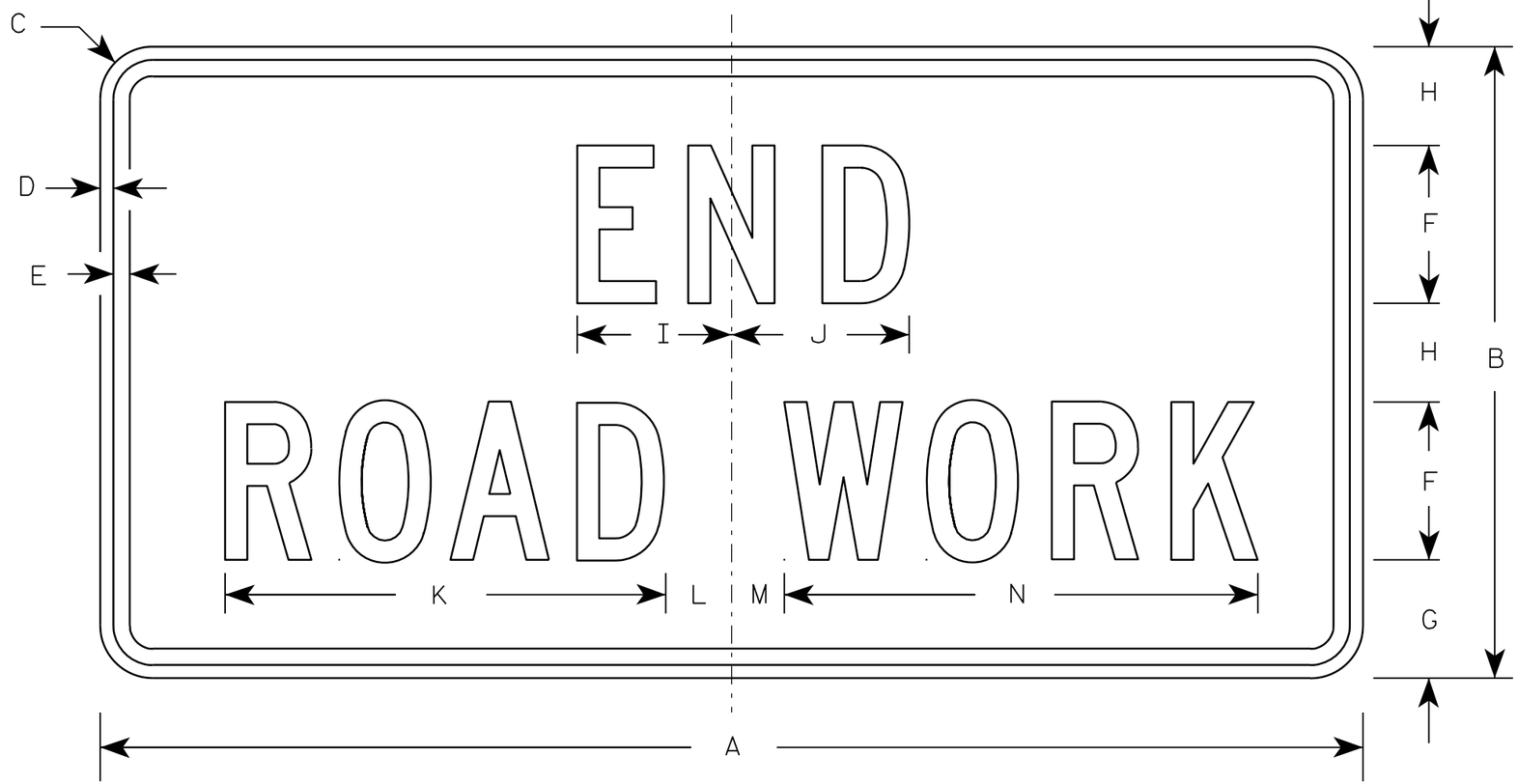
STANDARD SIGN
G20-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/14/17 PLATE NO. G20-1.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 207 | E



G20-2A

NOTES

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

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	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	0.41
2	48	24	1 1/2	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	0.72
3	48	24	1 1/2	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	0.72
4	48	24	1 1/2	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	0.72
5	48	24	1 1/2	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	0.72

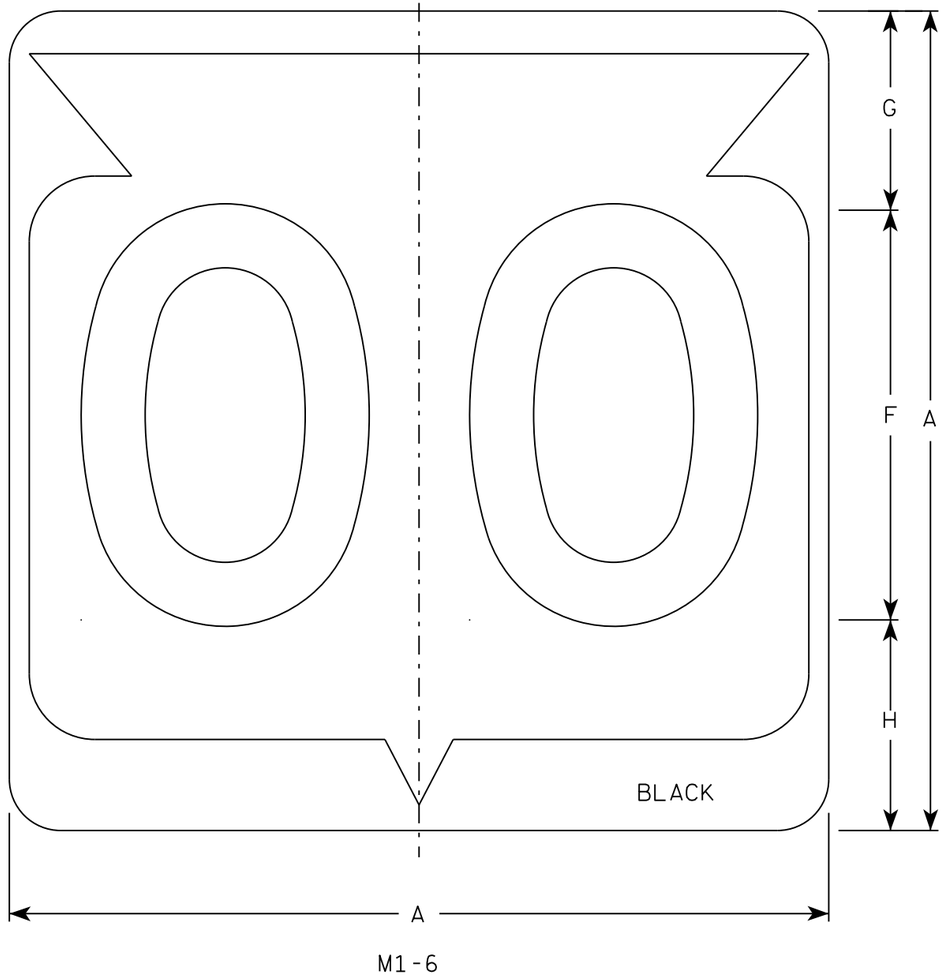
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

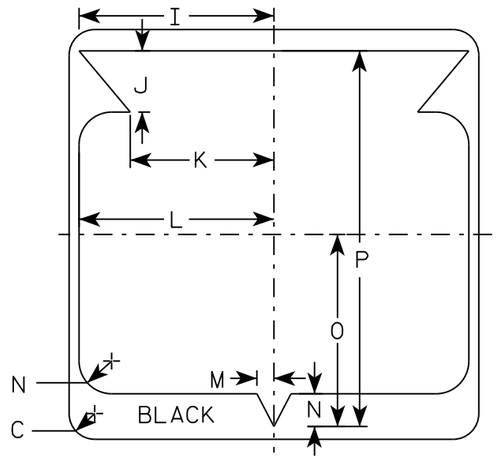
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 208	E



M1-6

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs Series C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0

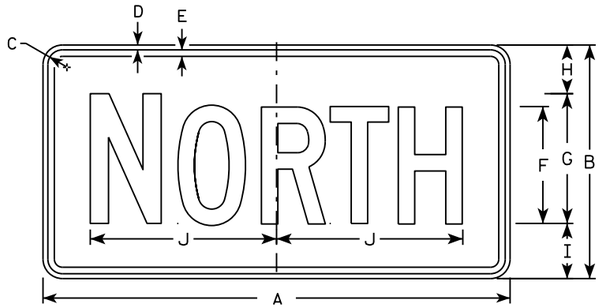
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

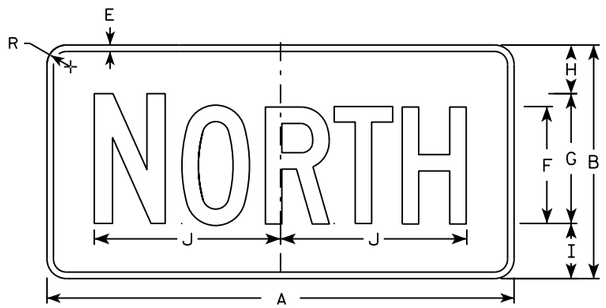
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-6.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 209 | E



M3-1
MM3-1
MP3-1



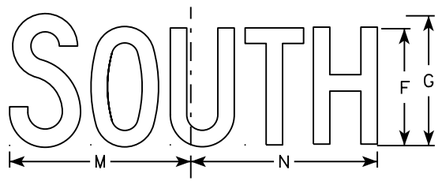
MB3-1
MK3-1
MN3-1



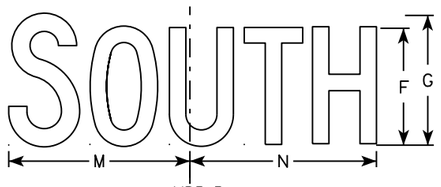
M3-2
MM3-2
MP3-2



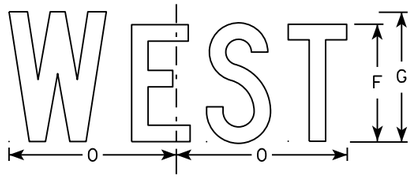
MB3-2
MK3-2
MN3-2



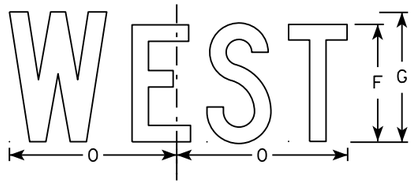
M3-3
MM3-3
MP3-3



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
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

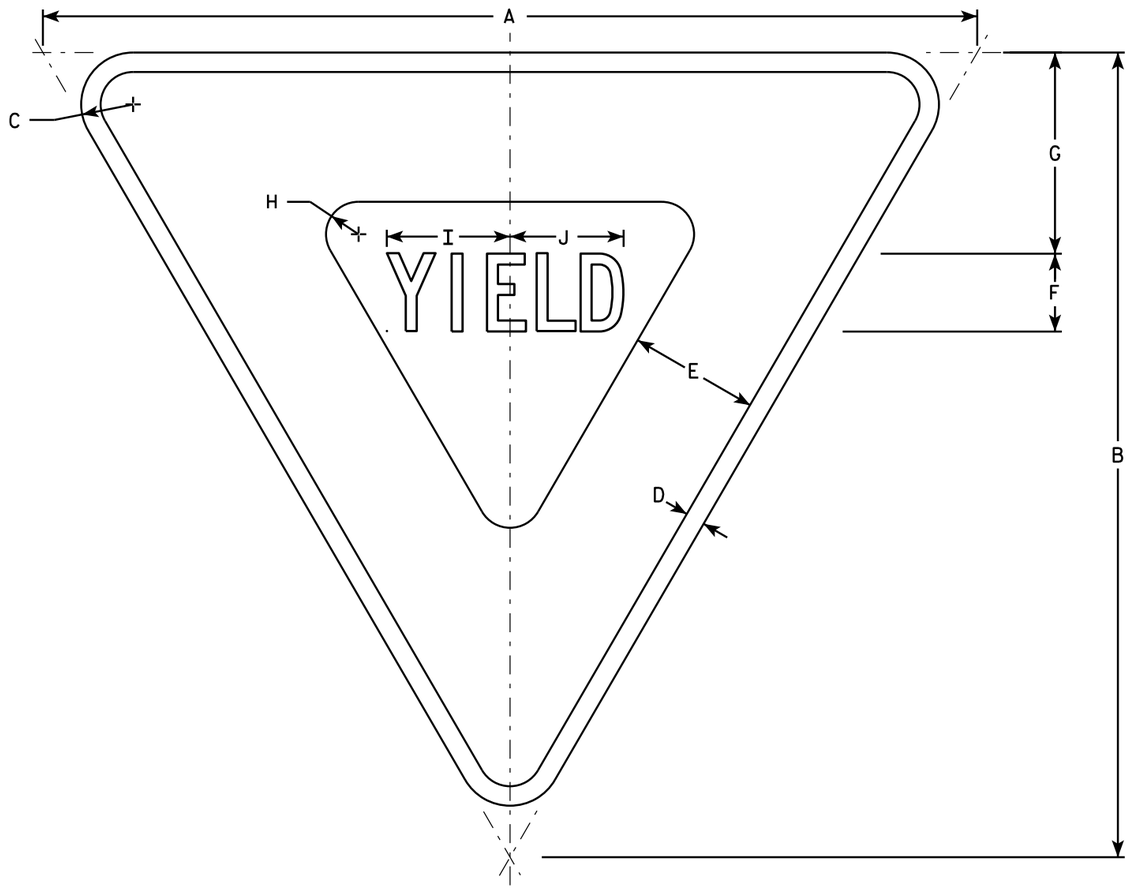
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

DATE 10/15/15 PLATE NO M3-1.14

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



R1-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The border strip and word message are reflectorized red.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	26	1 1/2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71
2S	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83
6																											
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 7/8	5/8	2 3/8	2 1/4																	0.97

STANDARD SIGN
R1-2

WISCONSIN DEPT OF TRANSPORTATION

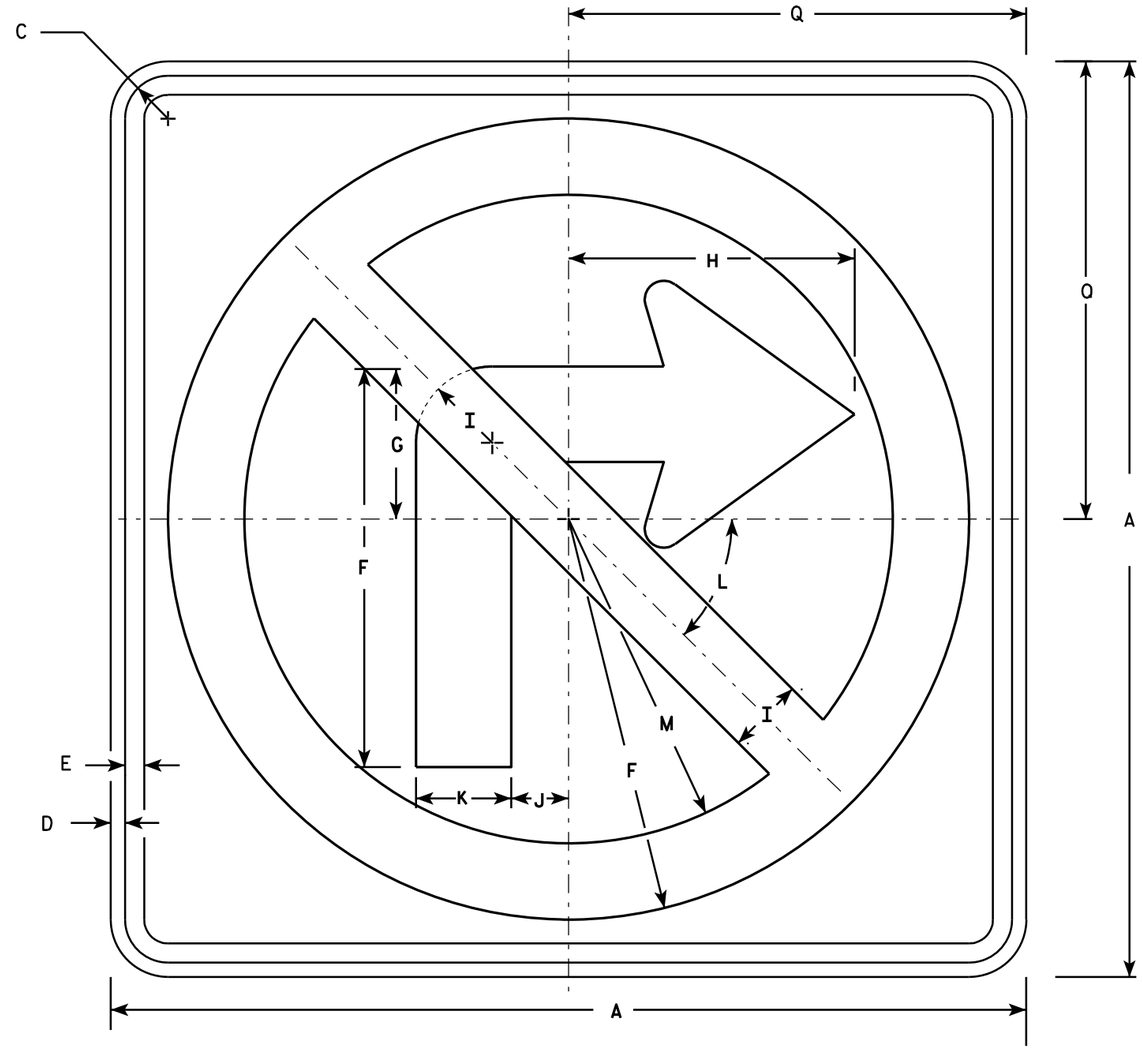
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/13/14 PLATE R1-2.12

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

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R12.DGN PLOT DATE : 13-OCT-2014 15:12 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.837526:1.000000

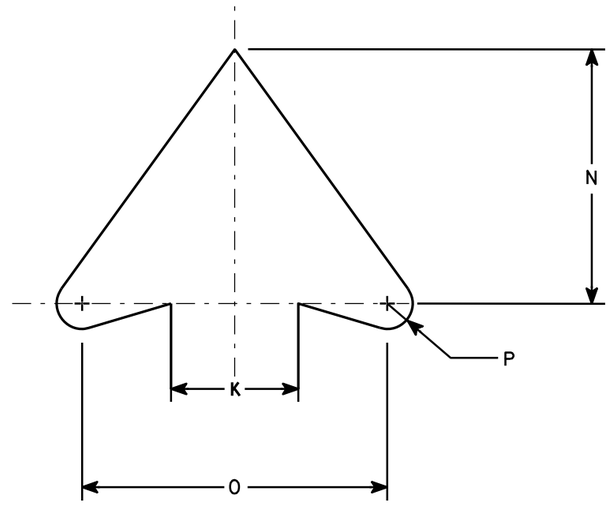
WISDOT/CADDS SHEET 42



R3-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45	8 1/2	5	6	1/2	12										4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2	12										4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4	18										9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1	24										16.0

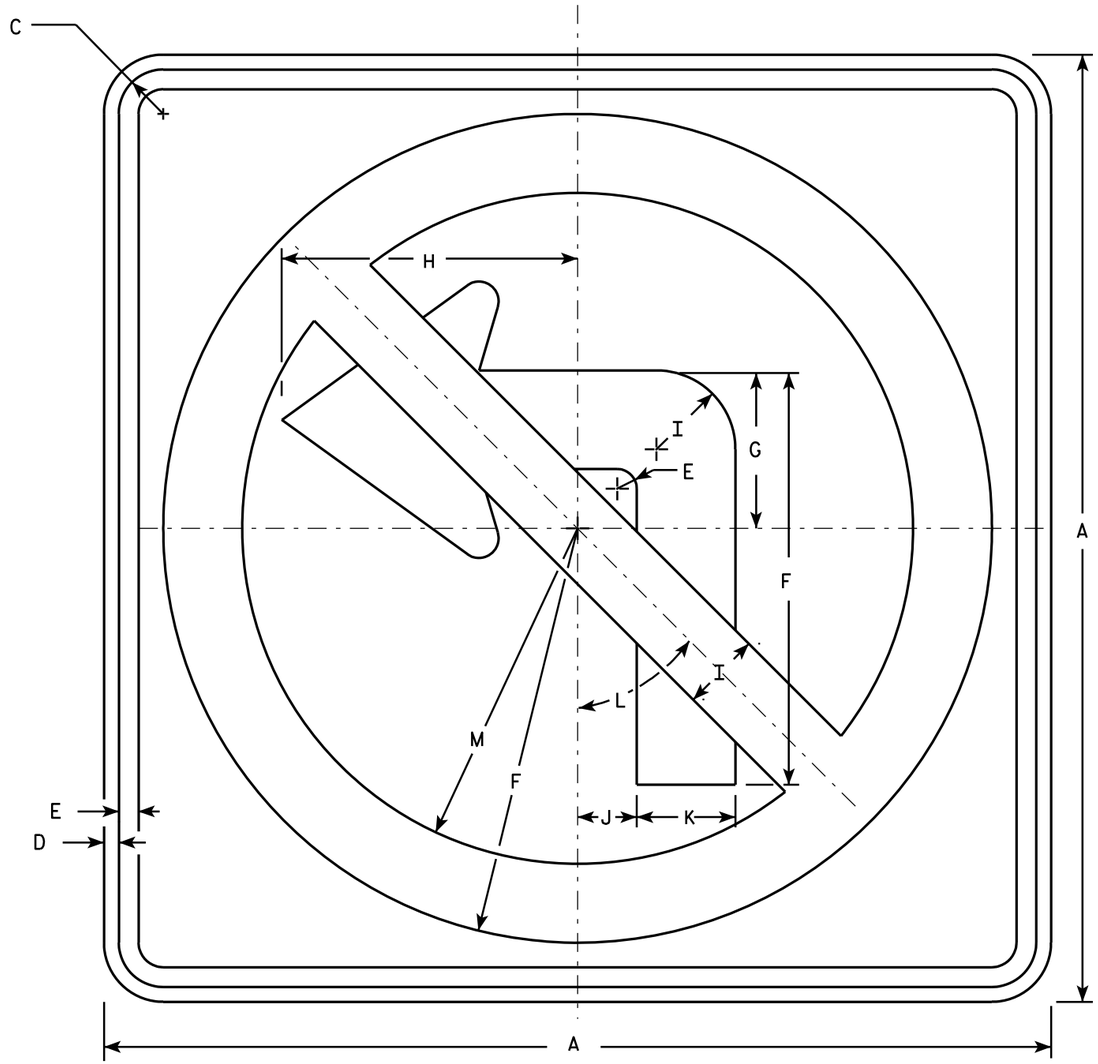
STANDARD SIGN
R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-1.5

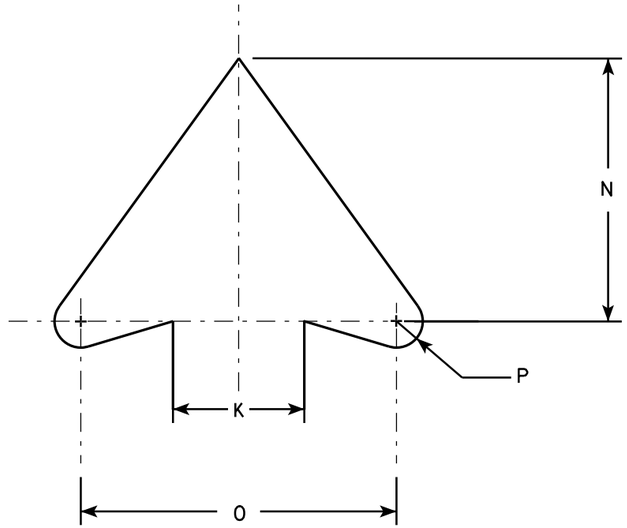
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 212	E



R3-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 213	E



R5-57

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - Lines 1, 2, and 5 are Series C.
   Lines 3 and 4 are Series B.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S																											
2M																											
3																											
4	36		1 5/8	5/8	3/4	4	3	2	3 1/2	14 1/4	14 7/8	11	11 1/2	4 3/4	1 3/4	9		1 3/8	10	11	2 1/2	1 3/4	15 1/2	13	13 5/8		9.0
5	36		1 5/8	5/8	3/4	4	3	2	3 1/2	14 1/4	14 7/8	11	11 1/2	4 3/4	1 3/4	9		1 3/8	10	11	2 1/2	1 3/4	15 1/2	13	13 5/8		9.0

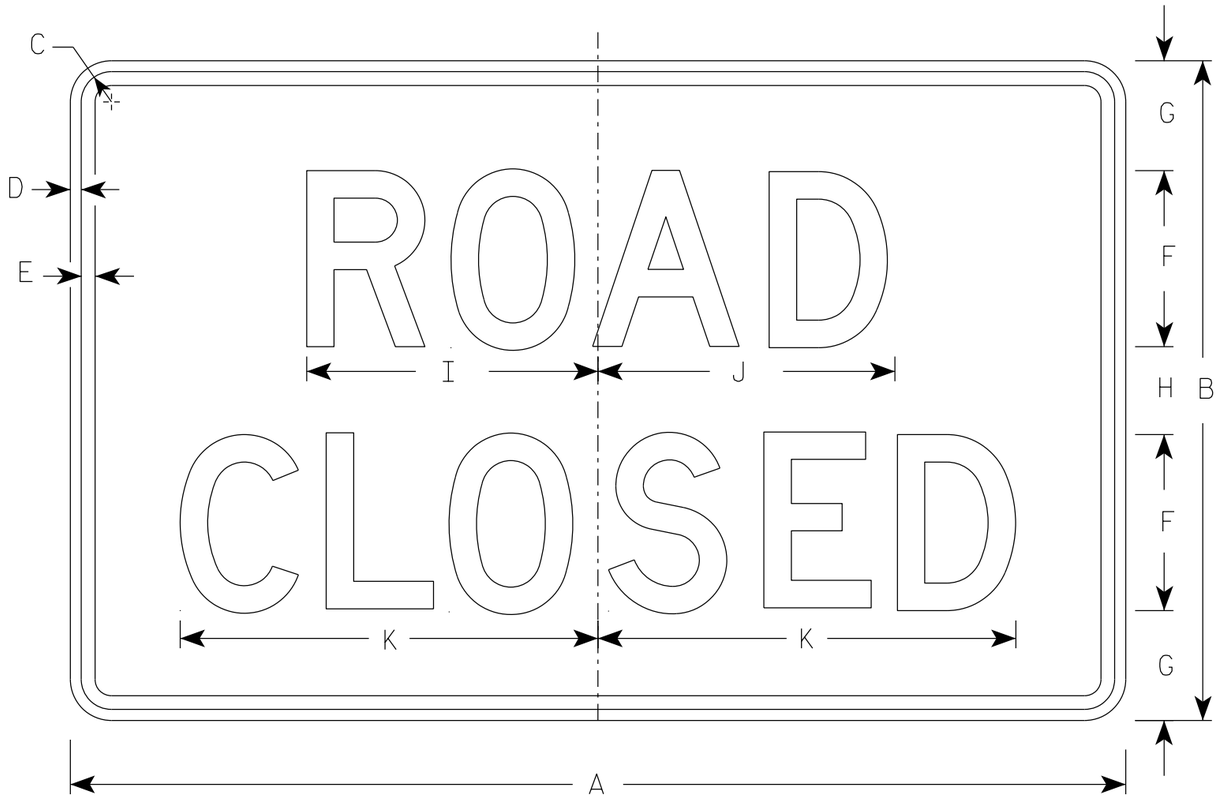
STANDARD SIGN
R5-57

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R5-57.10

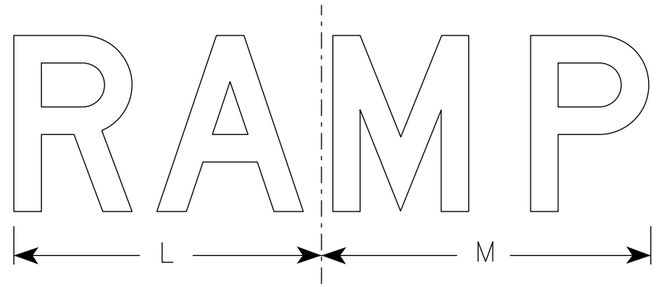
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 214 | E



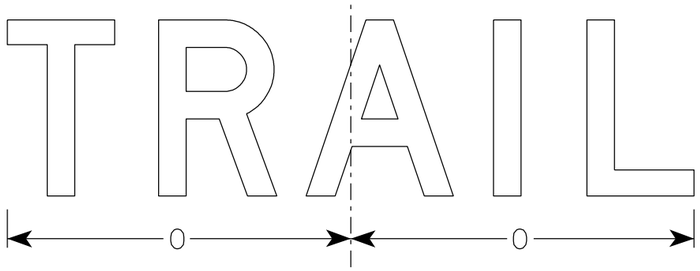
R11-2

NOTES

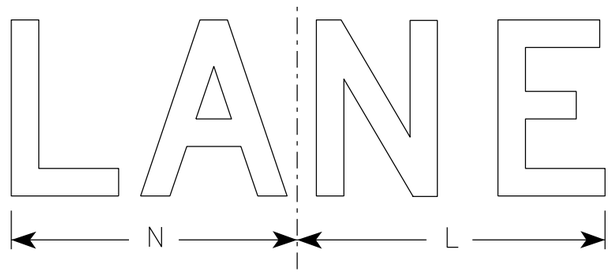
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the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



R11-2R



R11-2T



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0

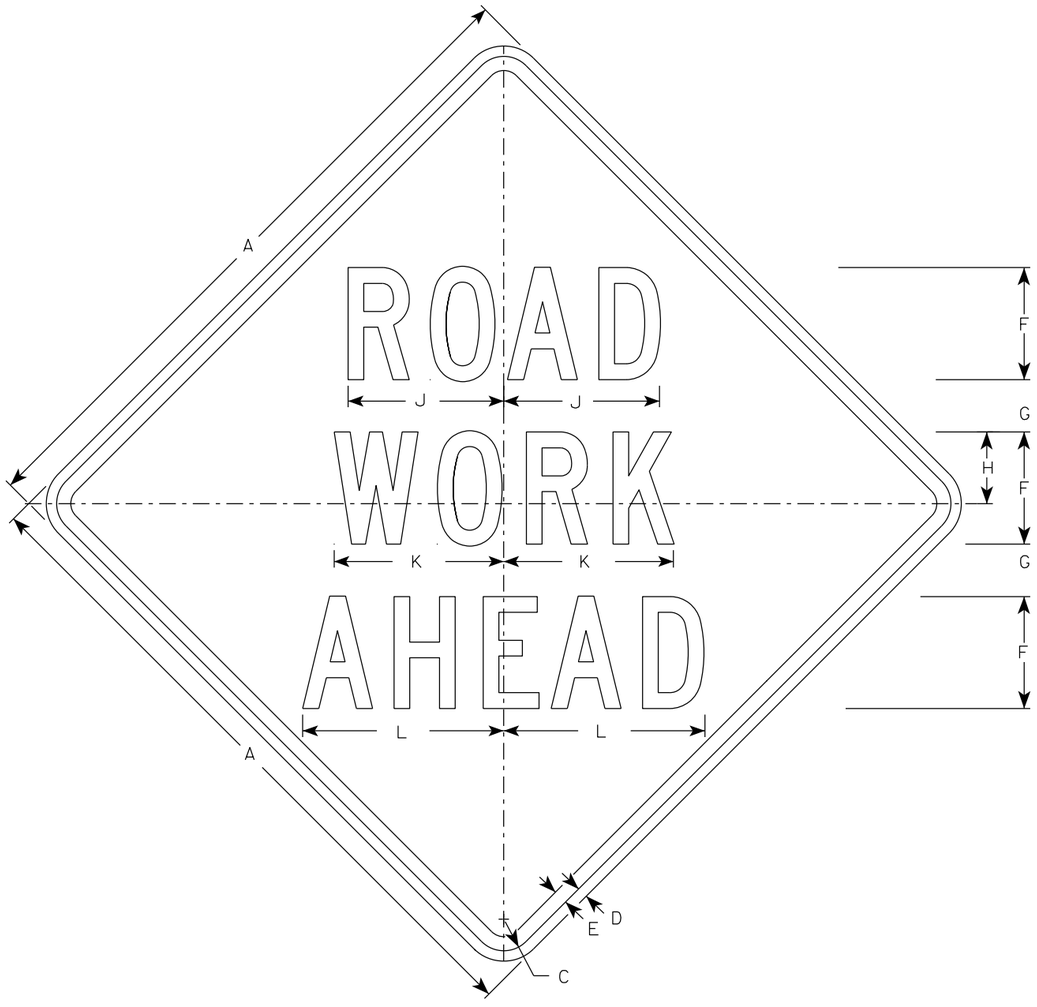
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

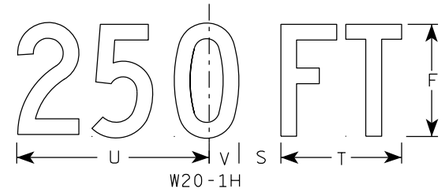
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2021 PLATE NO. R11-2.11

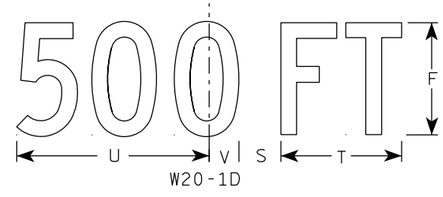
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 215	E



W20-1A



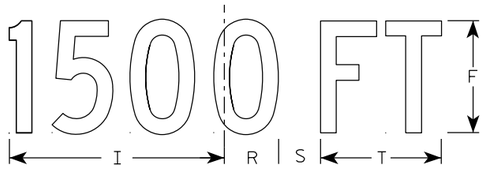
W20-1H



W20-1D



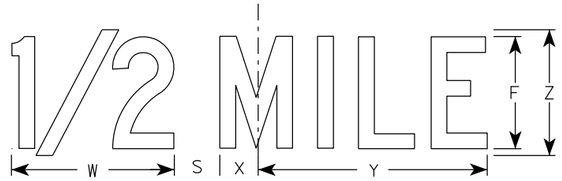
W20-1C



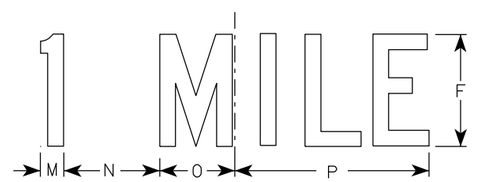
W20-1B

NOTES

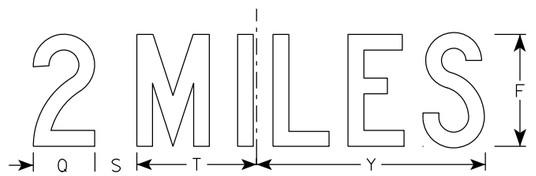
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W20-1G



W20-1F



W20-1E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	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		2 1/4	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		2 1/4	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		2 1/4	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		2 1/4	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		2 1/4	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 3/25/2020 PLATE NO. W20-1.11

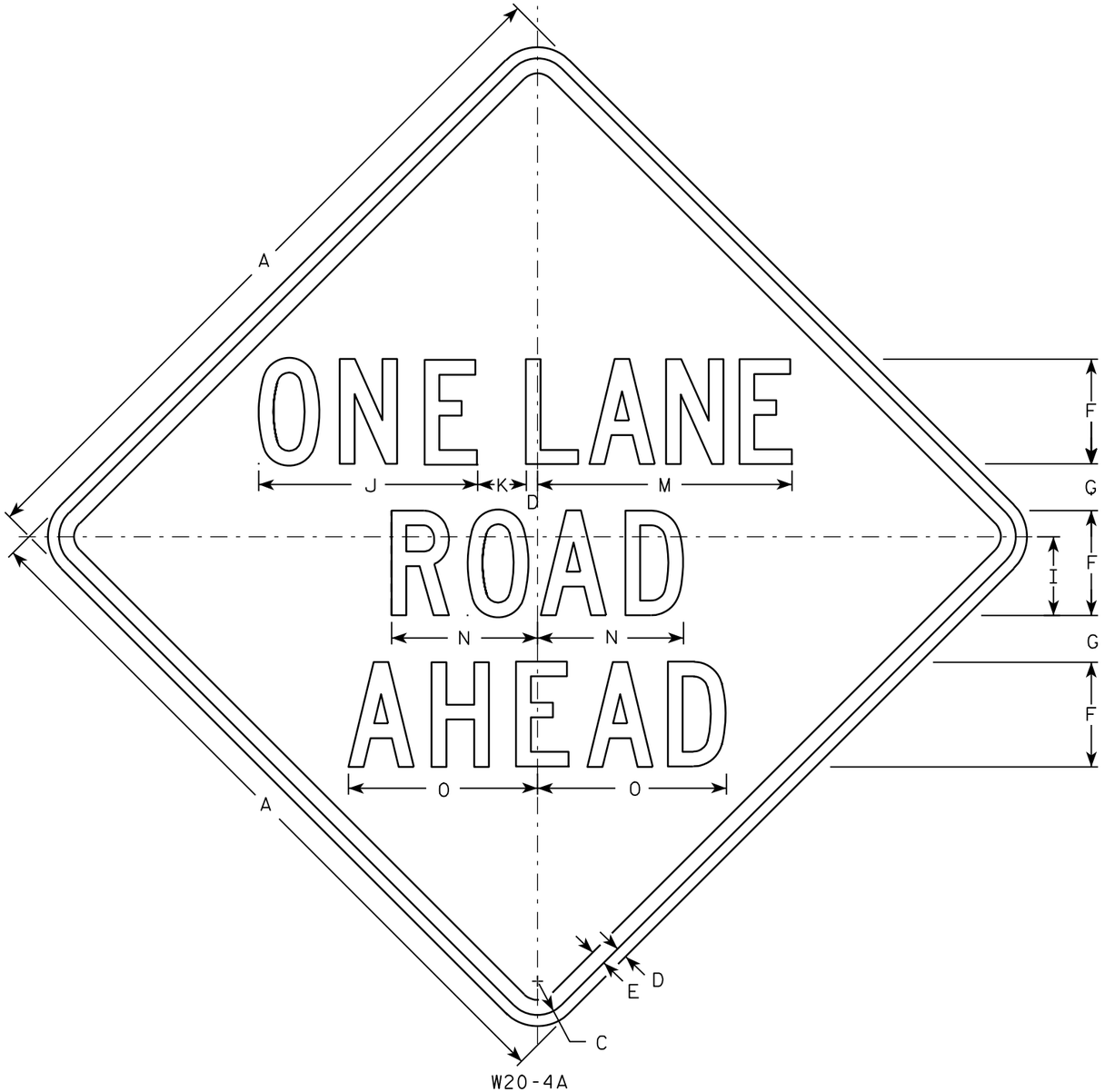
PROJECT NO:

SHEET NO: E

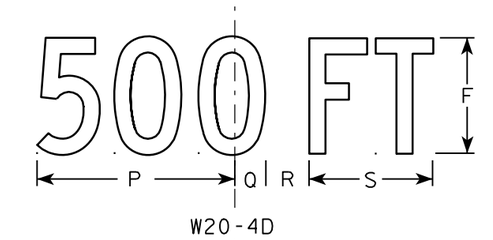
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 25-MARCH-2020 PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

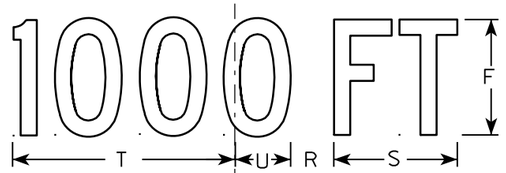
7



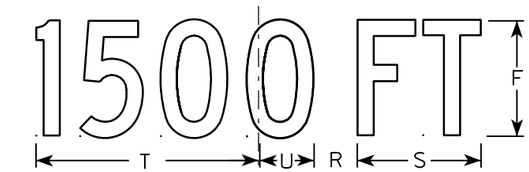
W20-4A



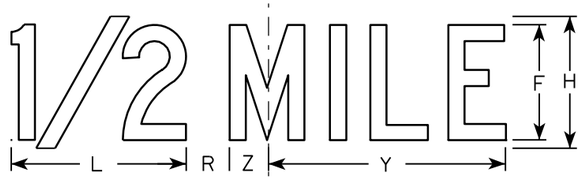
W20-4D



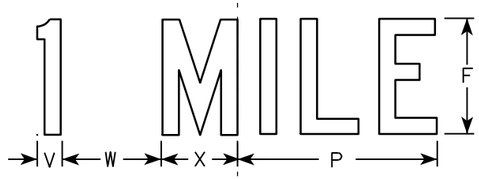
W20-4C



W20-4B



W20-4G



W20-4F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - 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		1 5/8	5/8	3/4	5	2 3/8	6	3 3/4	10 3/8	2 3/8	8	13 1/2	7	8 7/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-4A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-4.9

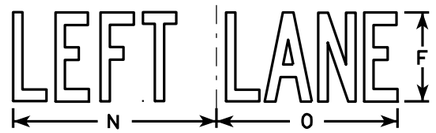
PROJECT NO:

SHEET NO: 217 E

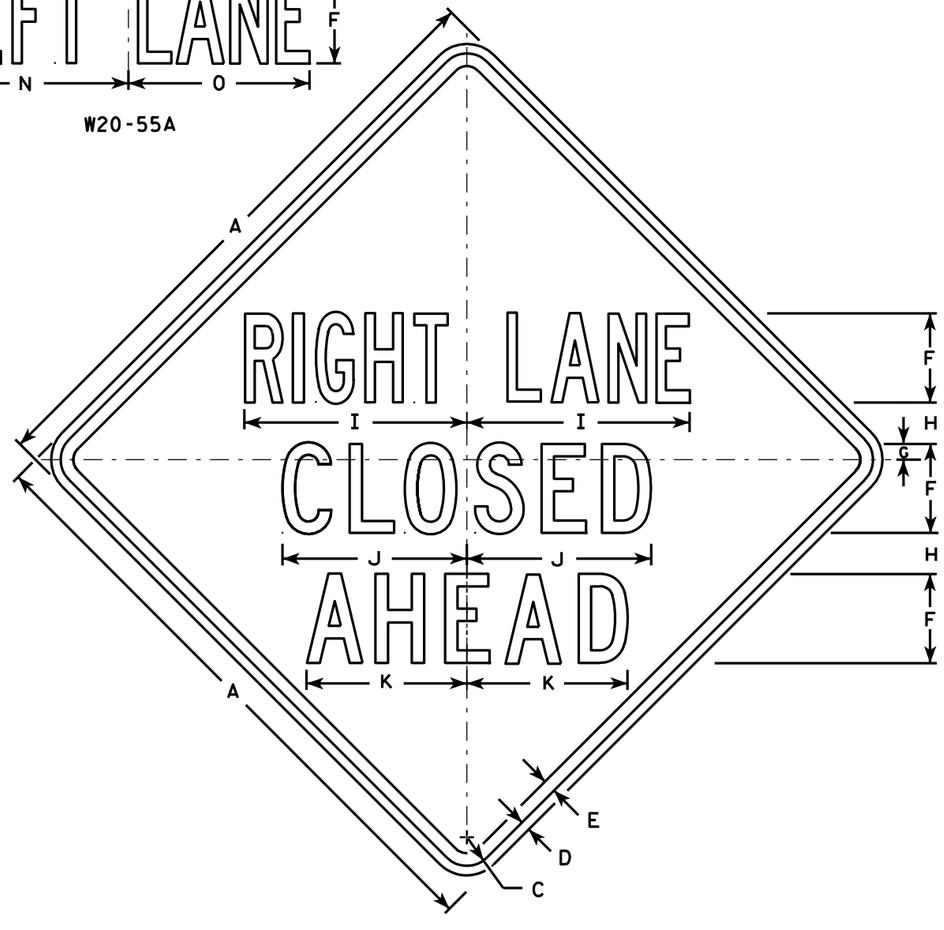
7



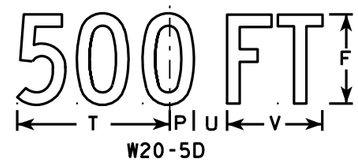
W20-56A



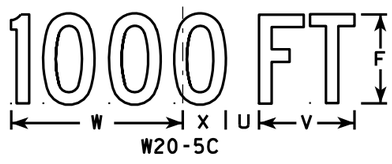
W20-55A



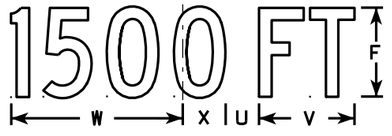
W20-5A



W20-5D



W20-5C



W20-5B



W20-5G



W20-5F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. " _____ LANE" is Series B.
   All other copy is 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	36	6	1 5/8	5/8	3/4	5	1/8	2 1/2	13 1/8	10 3/4	9 1/2	14 1/4	13 5/8	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 1/8	5 5/8	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
2M	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
3	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
4	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
5	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0

STANDARD SIGN
W20-5A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

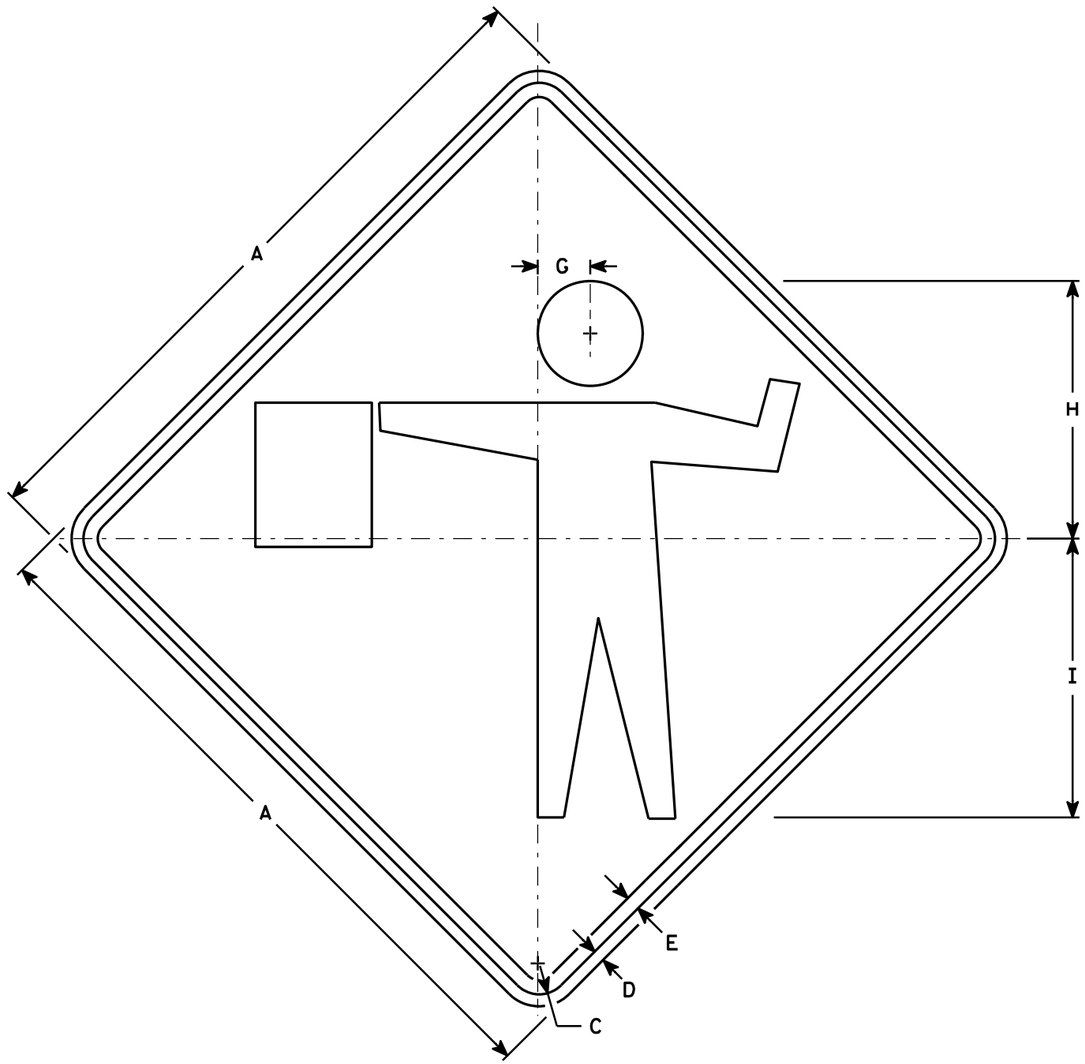
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-5.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 218 | E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W205.DGN PLOT DATE : 18-MAR-2011 12:15 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 11.918087:1.000000
WISDOT/CADDS SHEET 42



W20-7A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. 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		1 5/8	5/8	3/4		2 3/4	13 1/2	14 5/8																		9.00
2S	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00
2M	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00
3	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00
4	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00
5	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00

STANDARD SIGN
W20-7A

WISCONSIN DEPT OF TRANSPORTATION

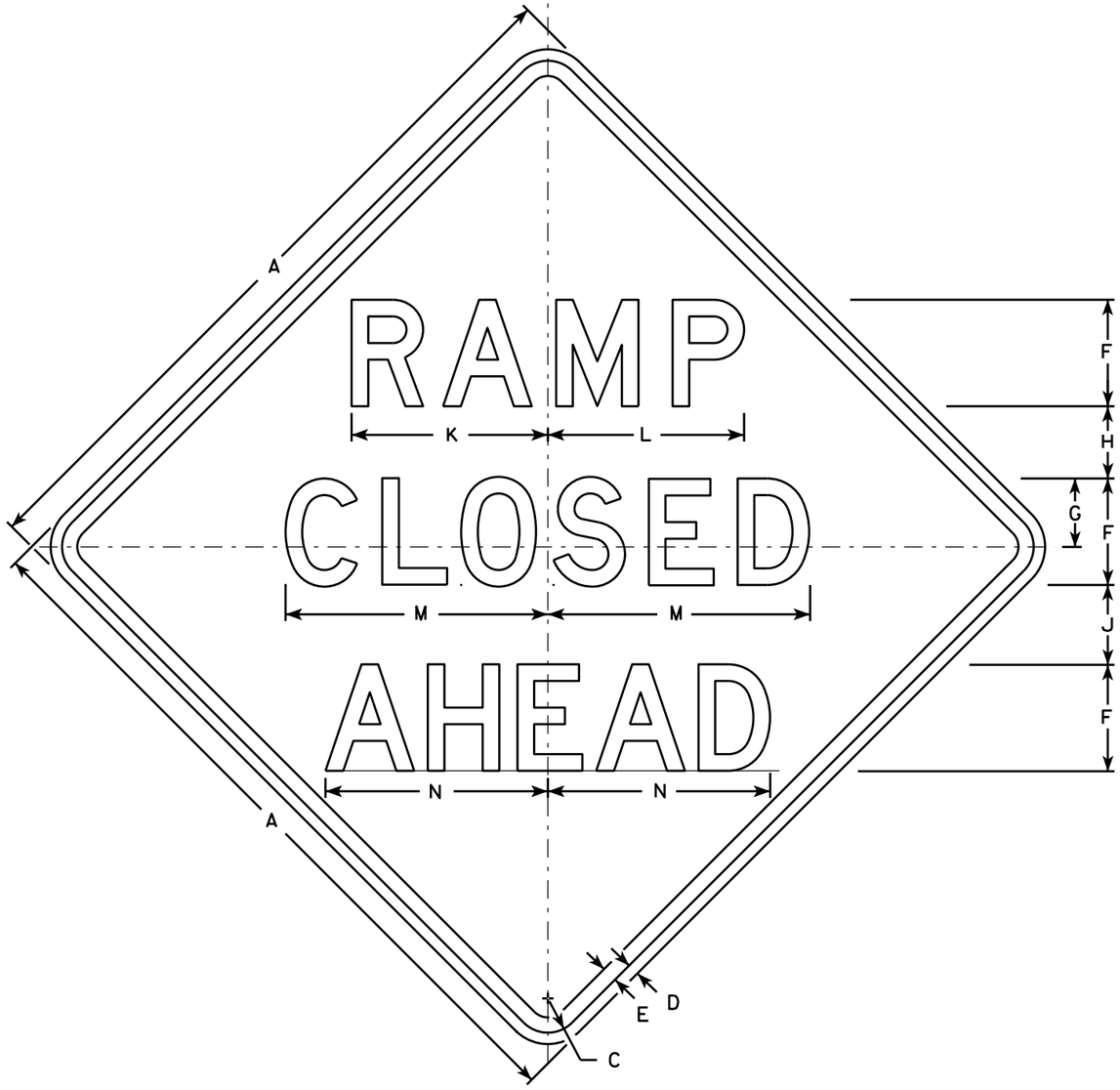
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-7A.5

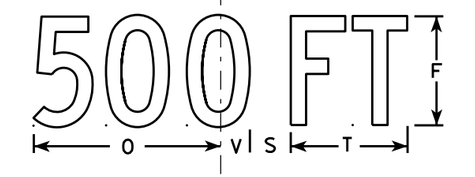
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 219 | E

7

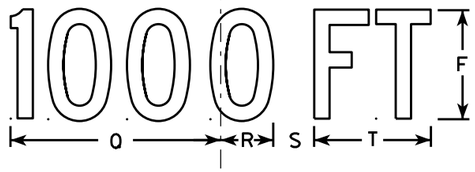
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W207A.DGN PLOT DATE : 18-MAR-2011 13:14 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 7.945391:1.000000 WISDOT/CADDS SHEET 42



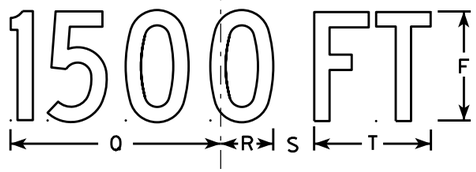
W20-53A



W20-53D



W20-53C



W20-53B



W20-53G



W20-53F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	9 1/4	9 1/4	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-53A,B,C,D,F,G

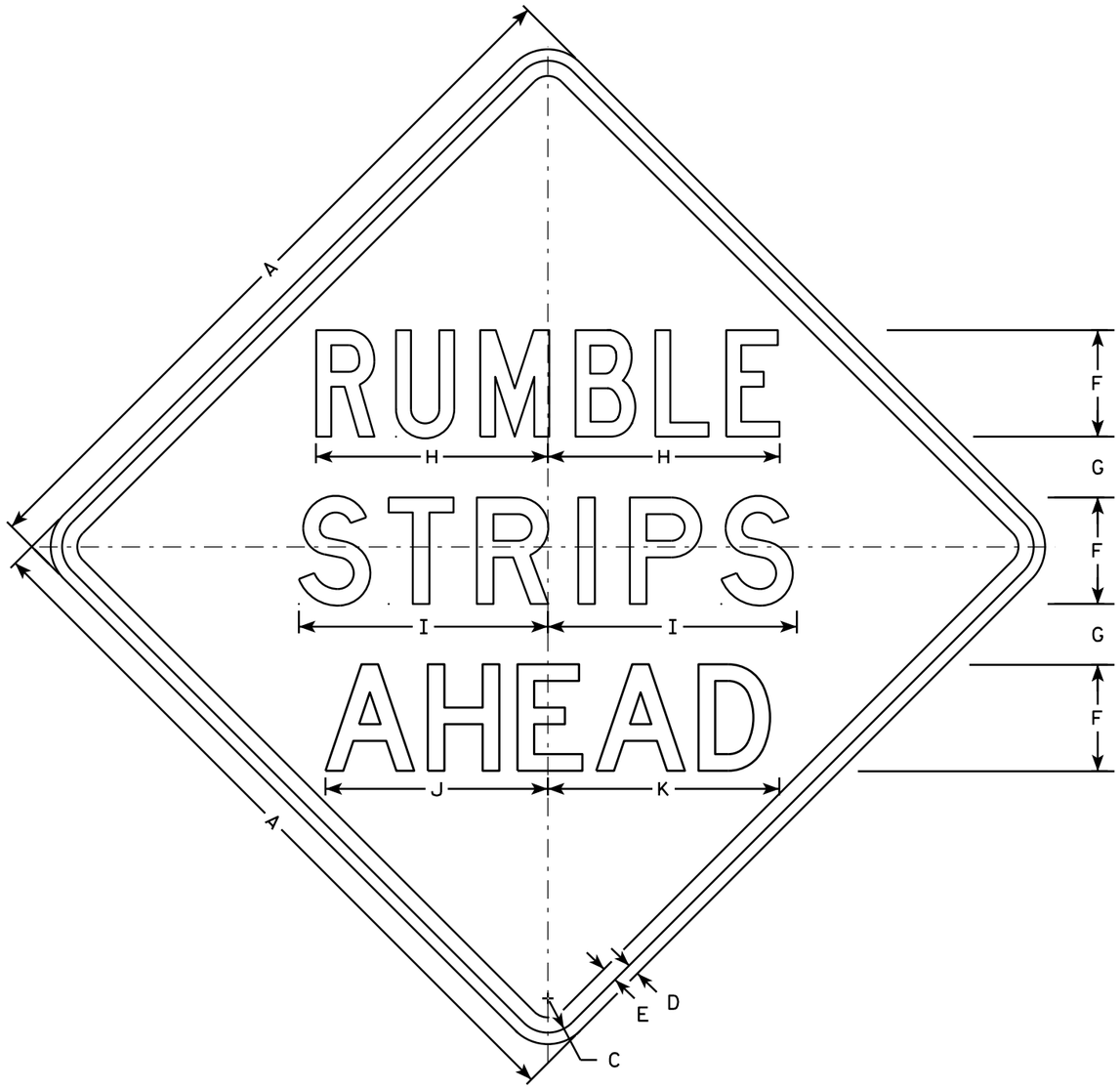
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/27/15 PLATE NO. W20-53.1

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W2053.DGN PLOT DATE : 27-MAY-2015 19:40 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.729210:1.000000
WISDOT/CADDS SHEET 42



W21-65

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series C
   Lines 2 and 3 are 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		1 5/8	5/8	3/4	5	3 1/4	10 7/8	11 5/8	11	11 5/8																9.0
2S	48		2 1/4	3/4	1	7	4	15 1/4	16 3/8	14 5/8	15 1/4																16.0
2M	48		2 1/4	3/4	1	7	4	15 1/4	16 3/8	14 5/8	15 1/4																16.0
3	48		2 1/4	3/4	1	7	4	15 1/4	16 3/8	14 5/8	15 1/4																16.0
4	48		2 1/4	3/4	1	7	4	15 1/4	16 3/8	14 5/8	15 1/4																16.0
5	48		2 1/4	3/4	1	7	4	15 1/4	16 3/8	14 5/8	15 1/4																16.0

STANDARD SIGN

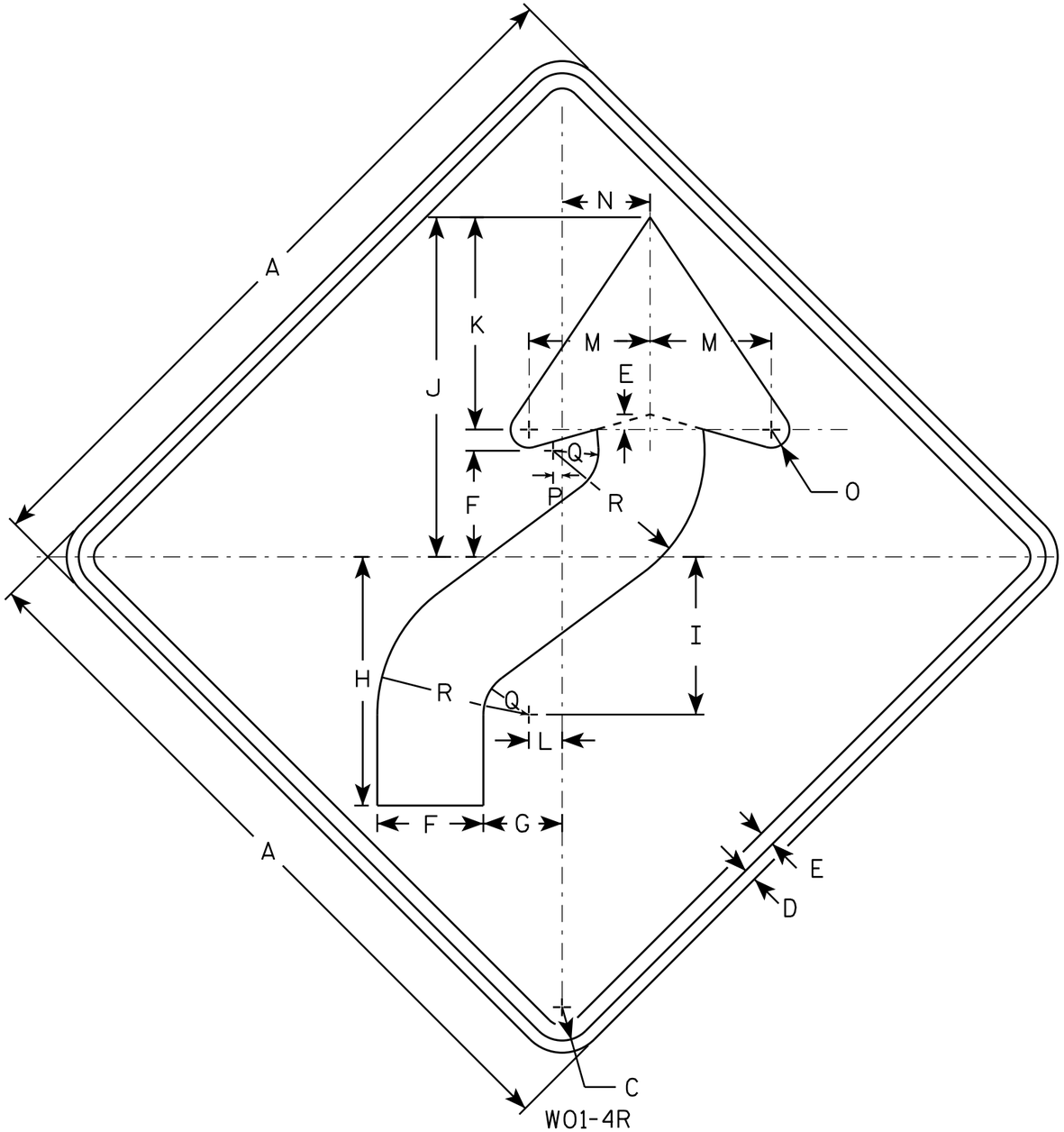
W21-65

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/28/14 PLATE W21-65.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



WO1-4R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. 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		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
2S	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
2M	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
3	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
4	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
5	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

STANDARD SIGN
WO1-4

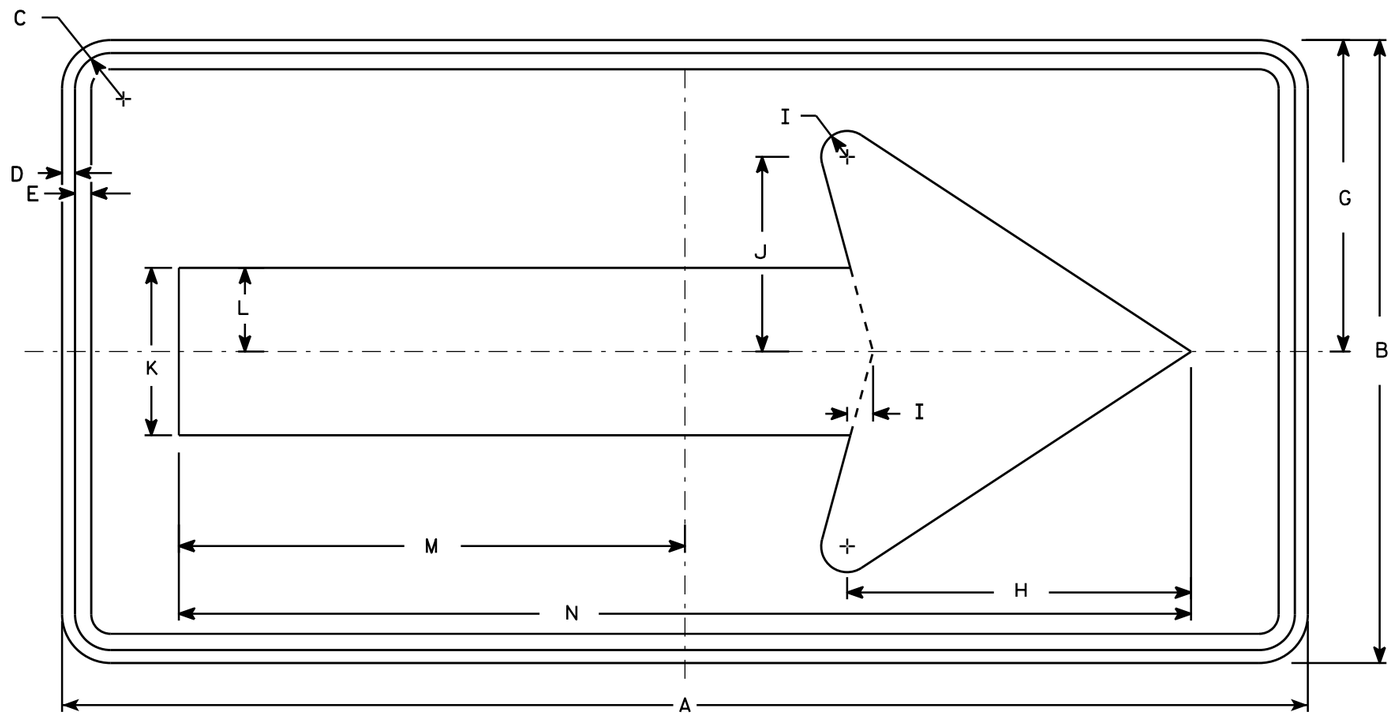
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO WO1-4.1

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\WO14.DGN PLOT DATE : 28-FEB-2014 11:35 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 6.755110:1.000000
WISDOT/CADDS SHEET 42



W01-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - 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 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5

STANDARD SIGN
W01-6

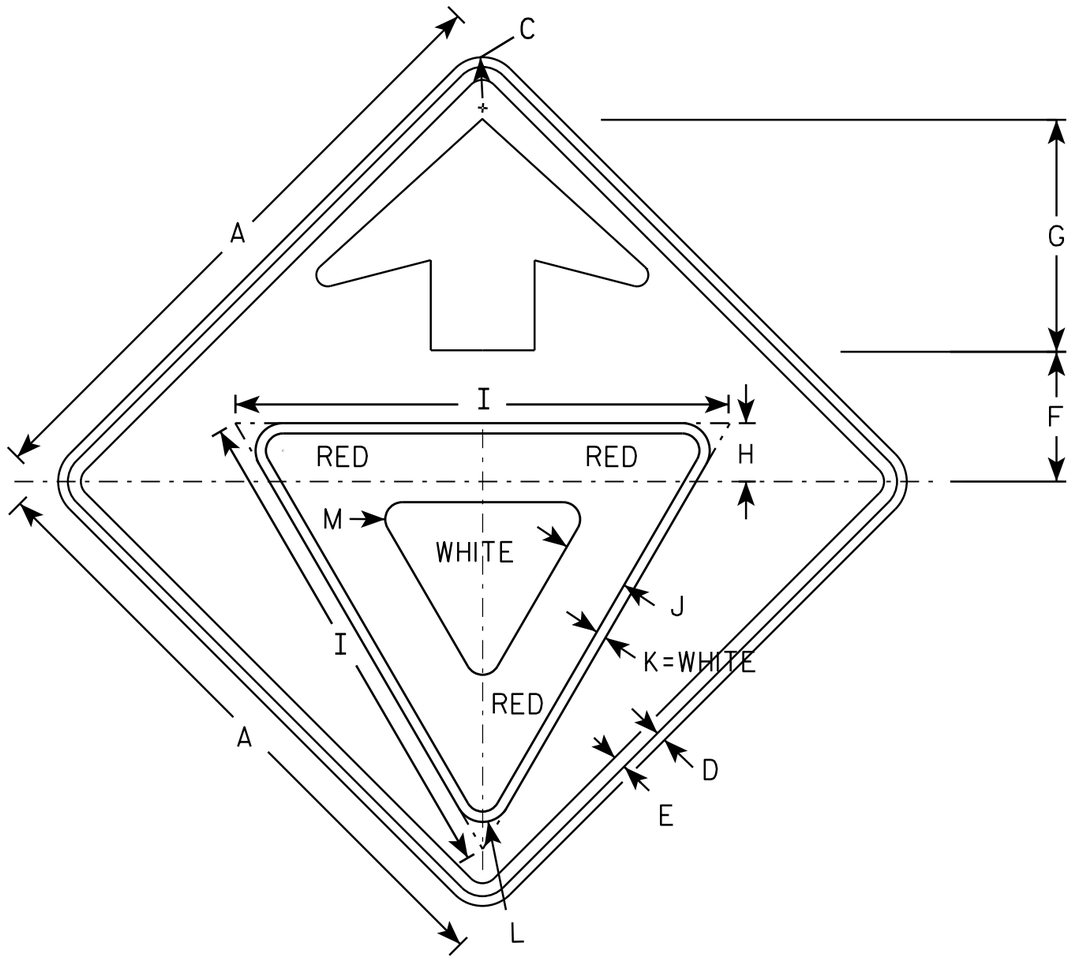
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO. W01-6.1

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

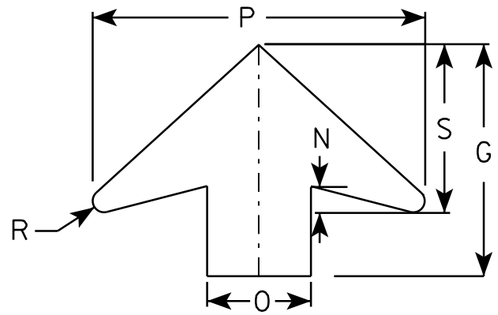
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN PLOT DATE : 28-FEB-2014 11:37 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.837526:1.000000 WISDOT/CADDS SHEET 42



W03-2

NOTES

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



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
2S	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
2M	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
3	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0

STANDARD SIGN
W03-2

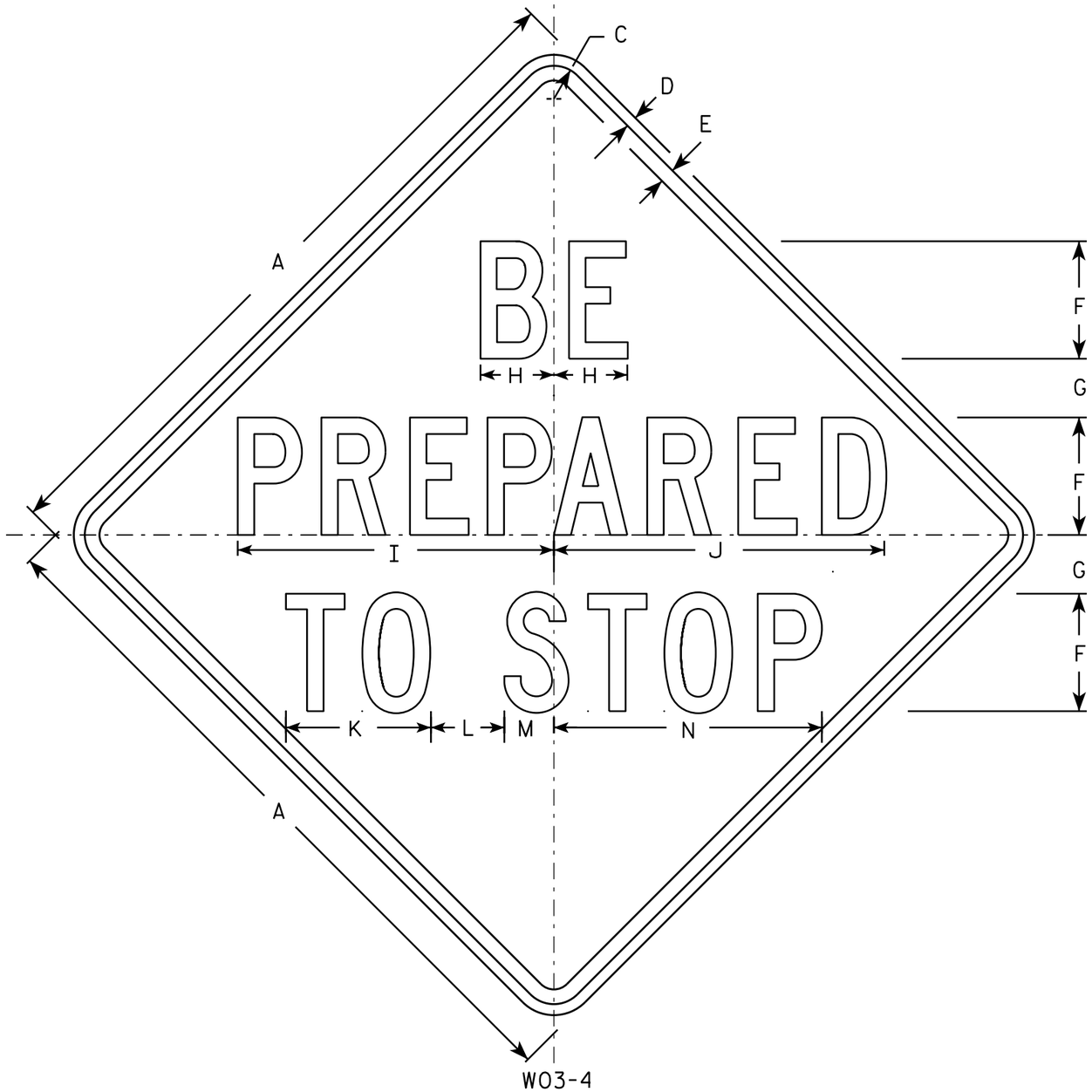
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE W03-2.1

PROJECT NO:

SHEET NO: E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - 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		1 3/8	1/2	5/8	6	2 1/2	3 3/4	15 7/8	16 7/8	7 3/8	4	2 3/8	13 3/4													9.0
2S	48		2 1/4	3/4	1	8	4	5	21 1/2	22 1/2	9 7/8	5	3 3/8	18 1/4													16.0
2M	48		2 1/4	3/4	1	8	4	5	21 1/2	22 1/2	9 7/8	5	3 3/8	18 1/4													16.0
3	48		2 1/4	3/4	1	8	4	5	21 1/2	22 1/2	9 7/8	5	3 3/8	18 1/4													16.0
4	48		2 1/4	3/4	1	8	4	5	21 1/2	22 1/2	9 7/8	5	3 3/8	18 1/4													16.0
5	48		2 1/4	3/4	1	8	4	5	21 1/2	22 1/2	9 7/8	5	3 3/8	18 1/4													16.0

STANDARD SIGN
W03-4

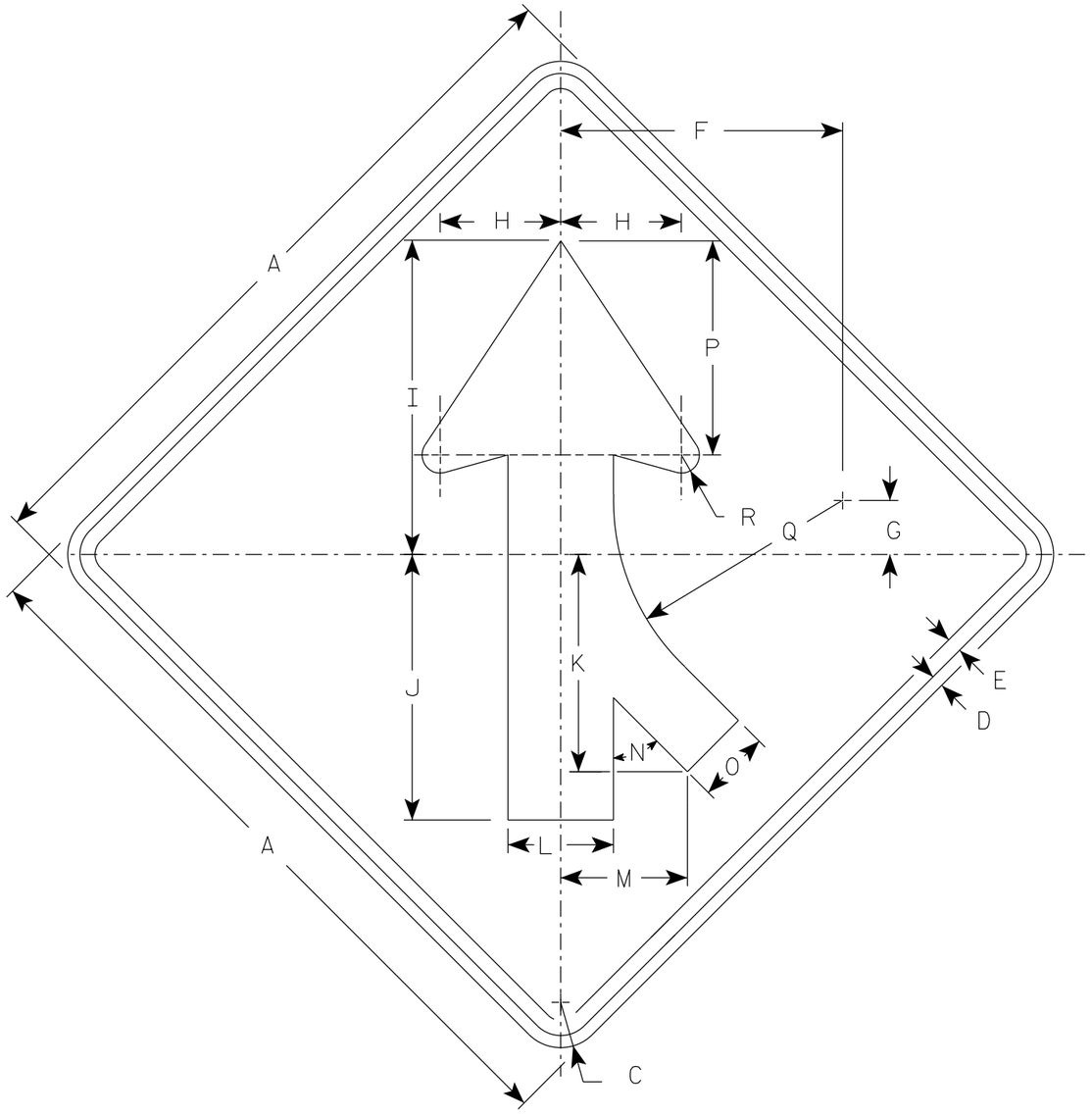
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/02/13 PLATE NO. W03-4.1

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

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W034.DGN PLOT DATE : 02-DEC-2013 14:02 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 8.999518:1.000000
WISDOT/CADDS SHEET 42



W04-1R

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. W04-1L is the same as W04-1R 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		1 5/8	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
2S	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
2M	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
3	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
4	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
5	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0

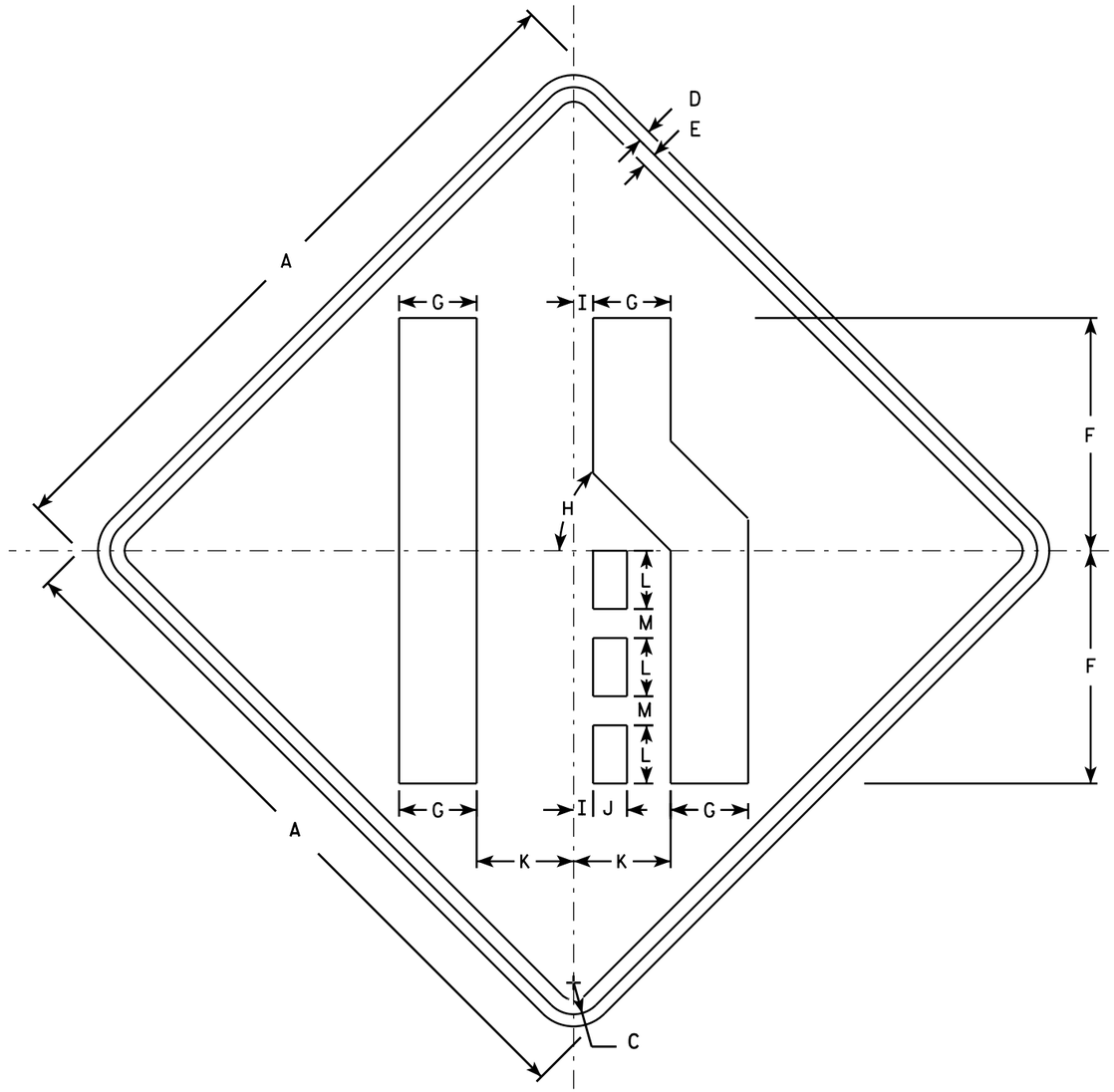
STANDARD SIGN
W04-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2021 PLATE NO. W04-1.2

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



W04-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. 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. W04-2L is the same as W04-2R except the symbol 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		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2S	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
2M	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
3	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W04-2

WISCONSIN DEPT OF TRANSPORTATION

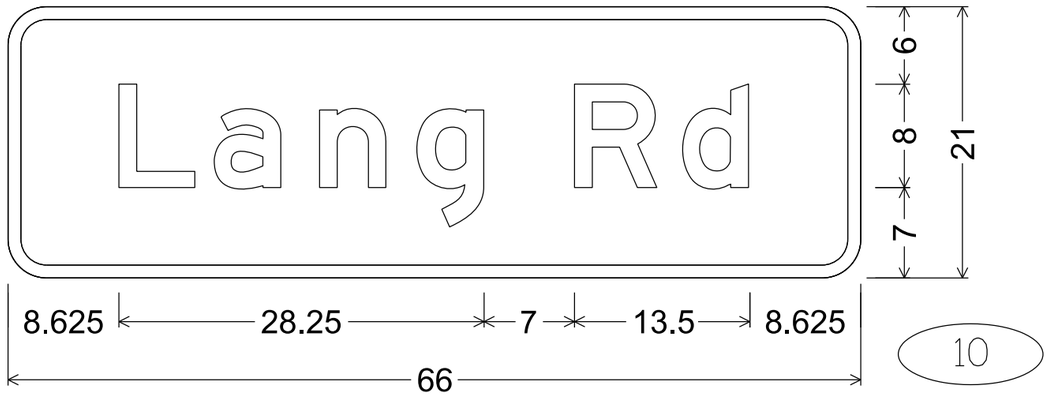
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 227 W04-2.1

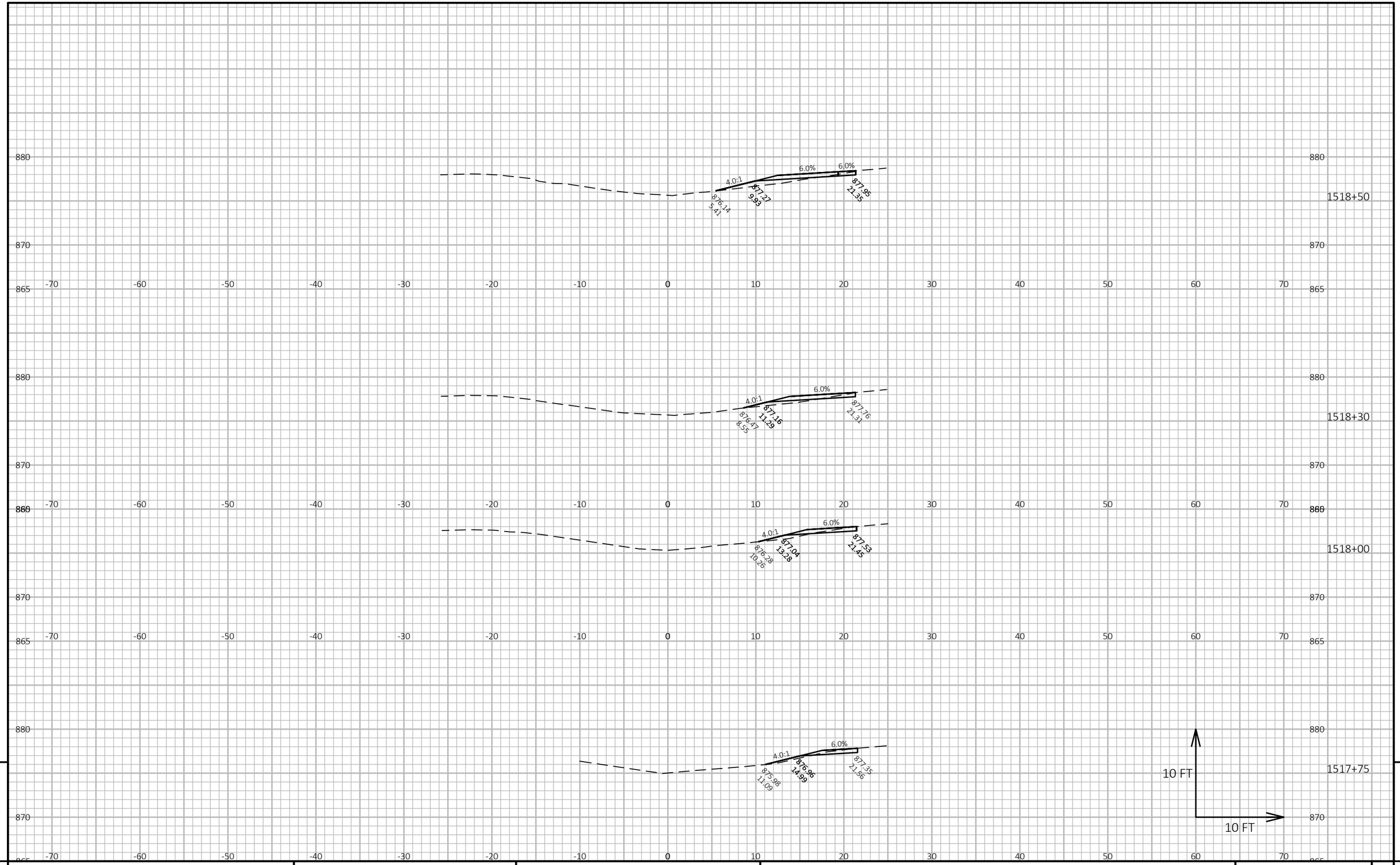
PROJECT NO: | SHEET NO: E

NOTES

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



M1-94; 3.000" Radius, 1.000" Border



9

9

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	CROSS SECTIONS: WISCONSIN AVE	SHEET 229	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 01

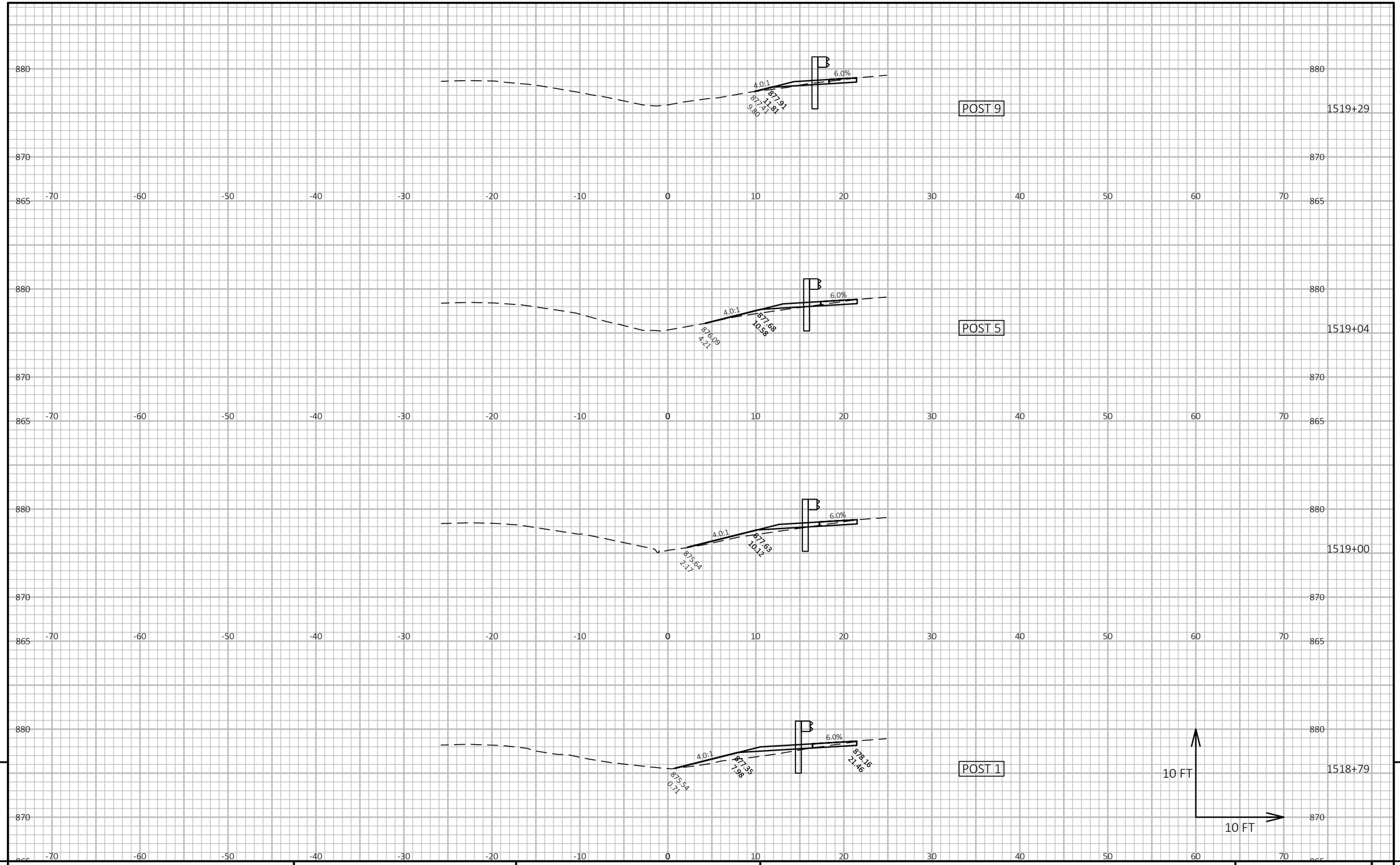
PLOT DATE : 12/13/2023 4:43 PM

PLOT BY : DILLINGHAM, MATTHEW

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	CROSS SECTIONS: WISCONSIN AVE	SHEET 230	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 02

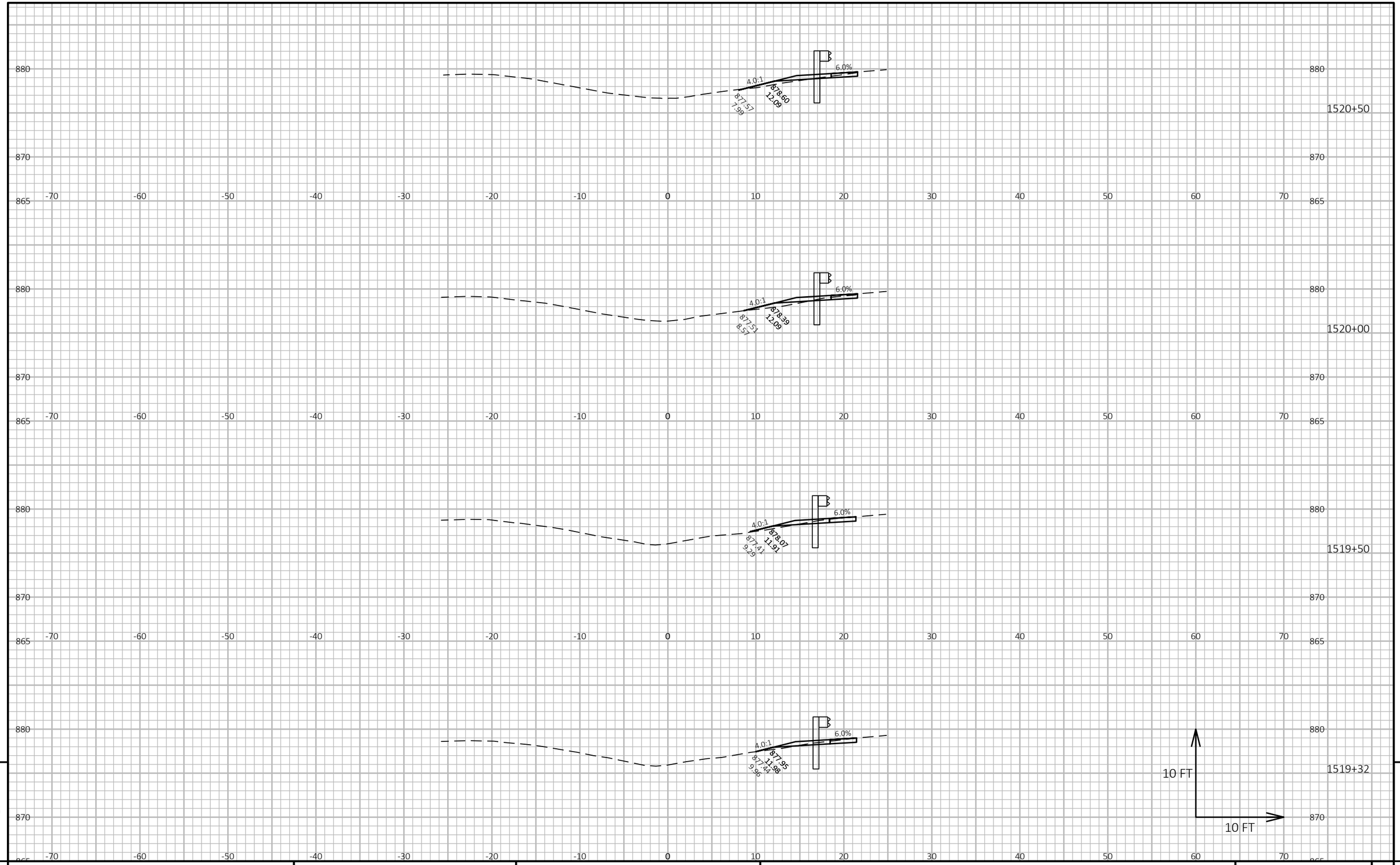
PLOT DATE : 12/13/2023 4:43 PM

PLOT BY : DILLINGHAM, MATTHEW

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

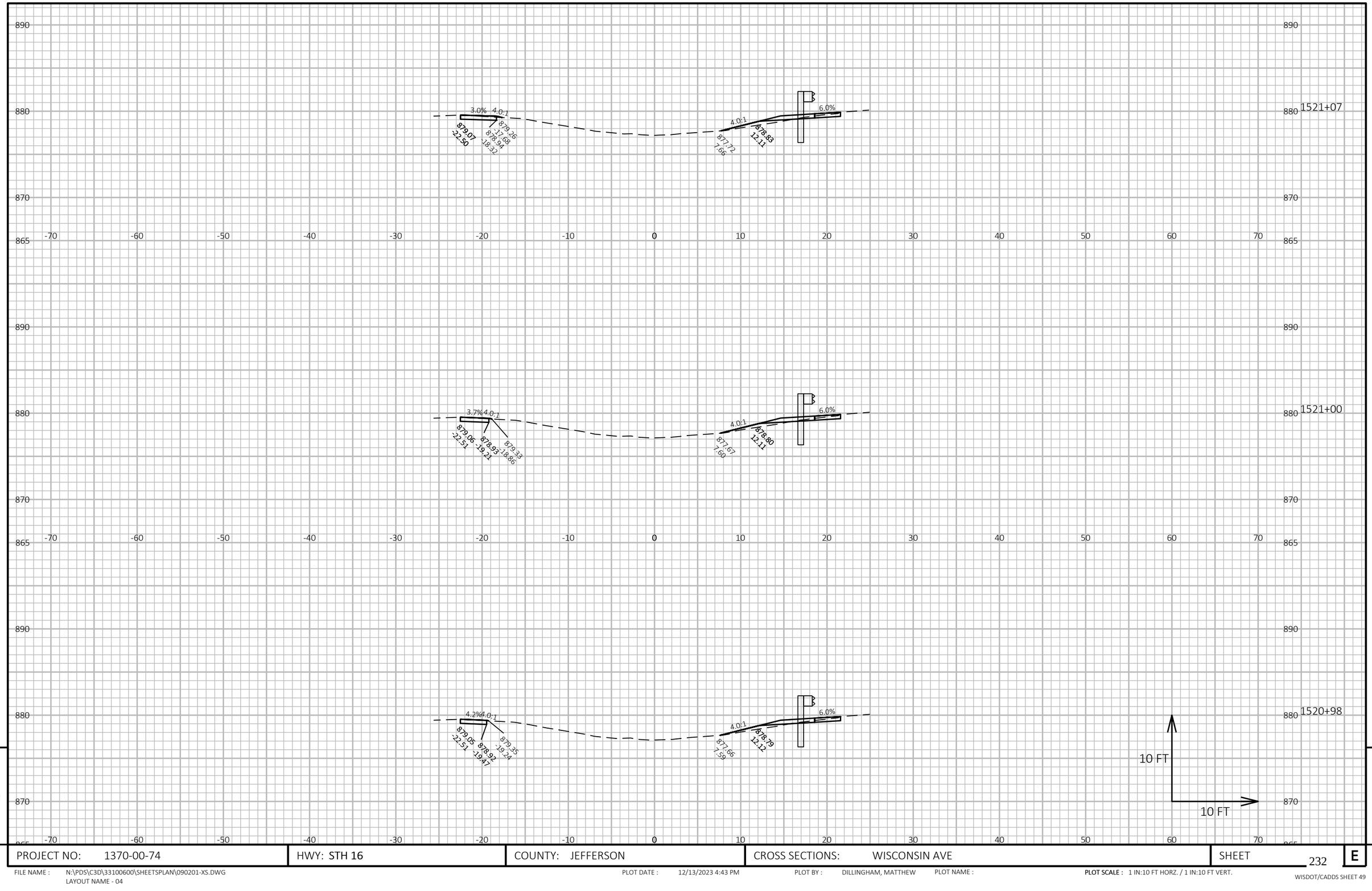
PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	CROSS SECTIONS: WISCONSIN AVE	SHEET 231	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 03

PLOT DATE : 12/13/2023 4:43 PM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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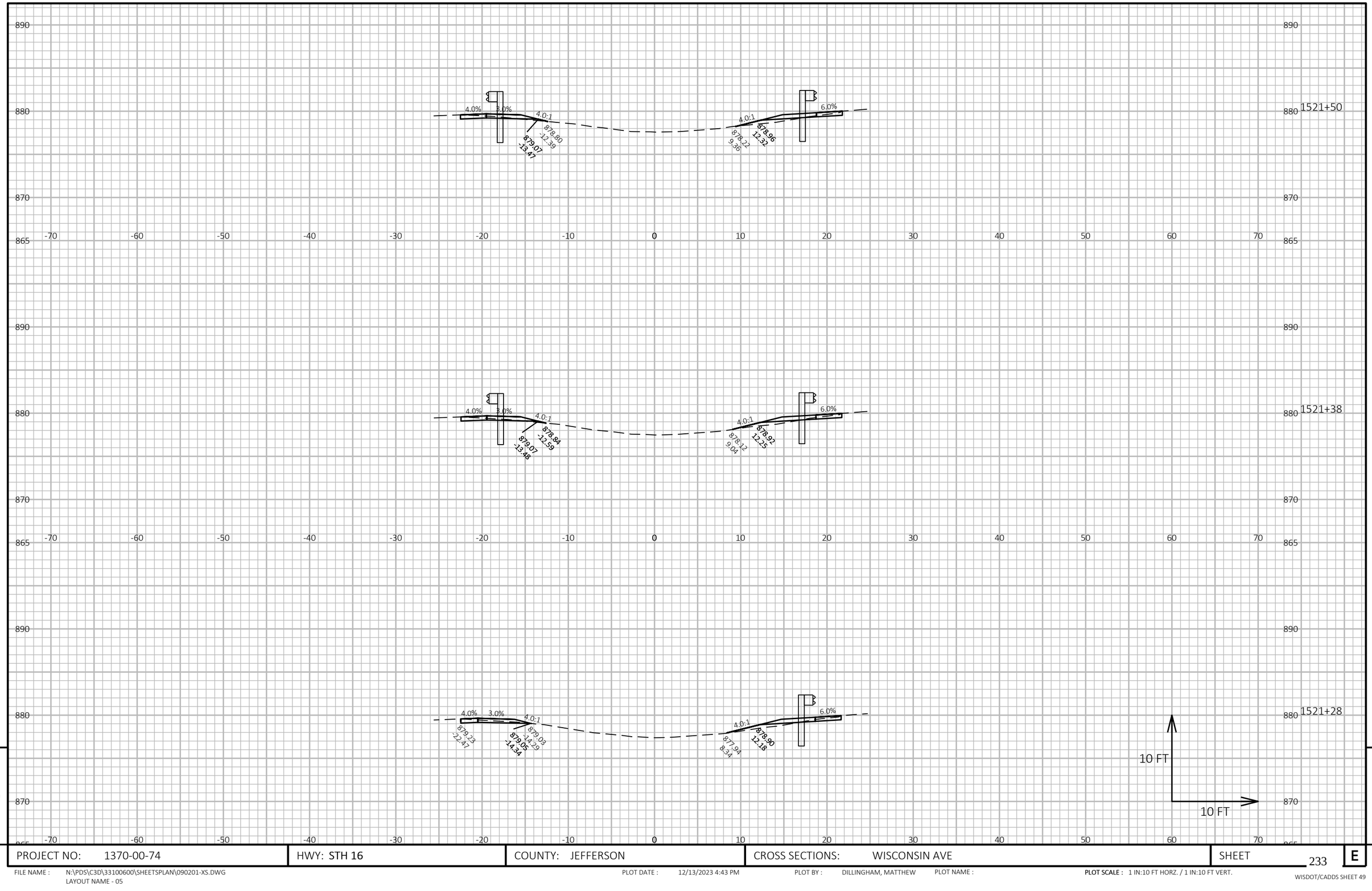
PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	CROSS SECTIONS: WISCONSIN AVE	SHEET 232	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 04

PLOT DATE : 12/13/2023 4:43 PM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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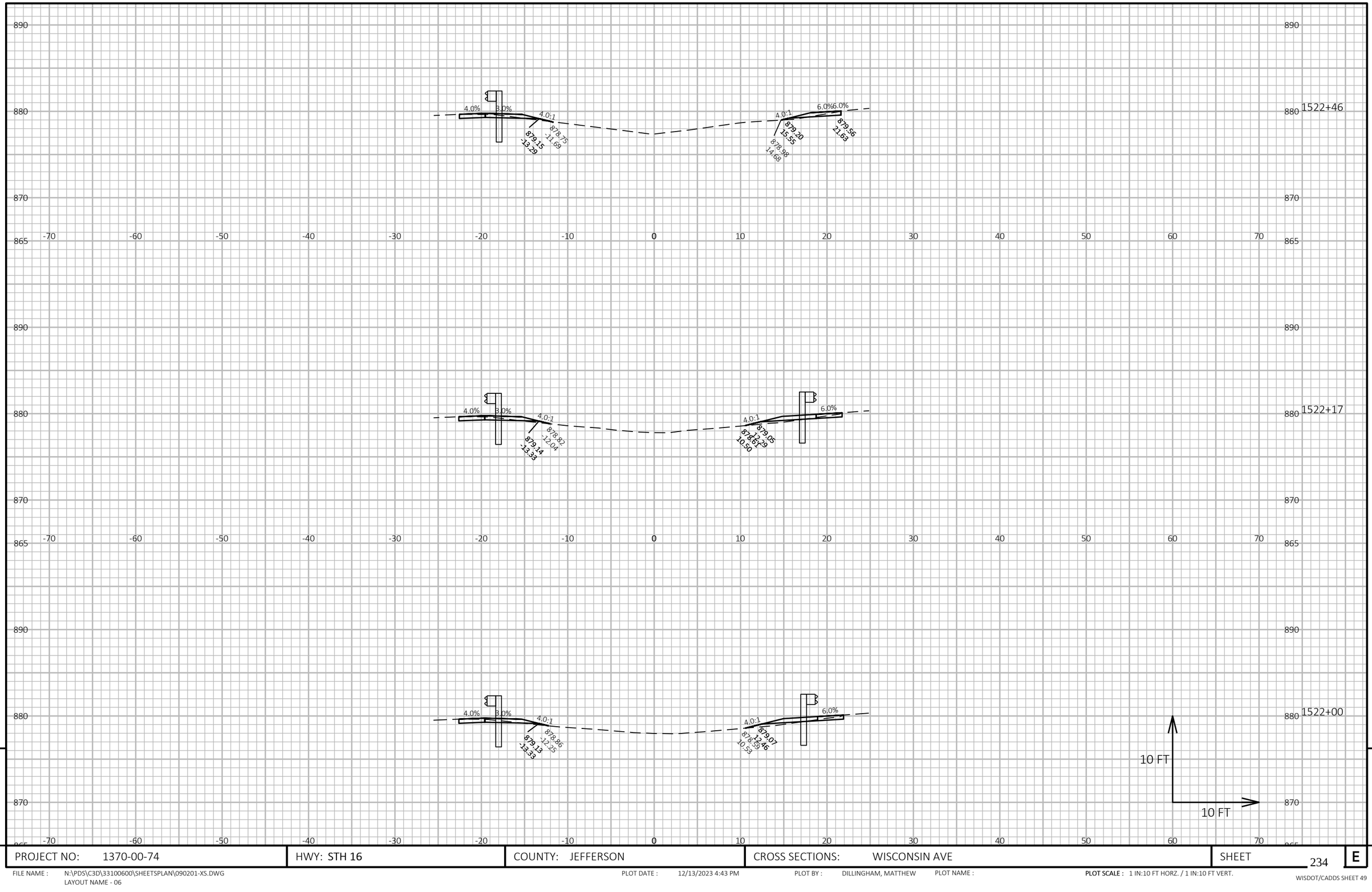
PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	CROSS SECTIONS: WISCONSIN AVE	SHEET 233	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 05

PLOT DATE : 12/13/2023 4:43 PM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



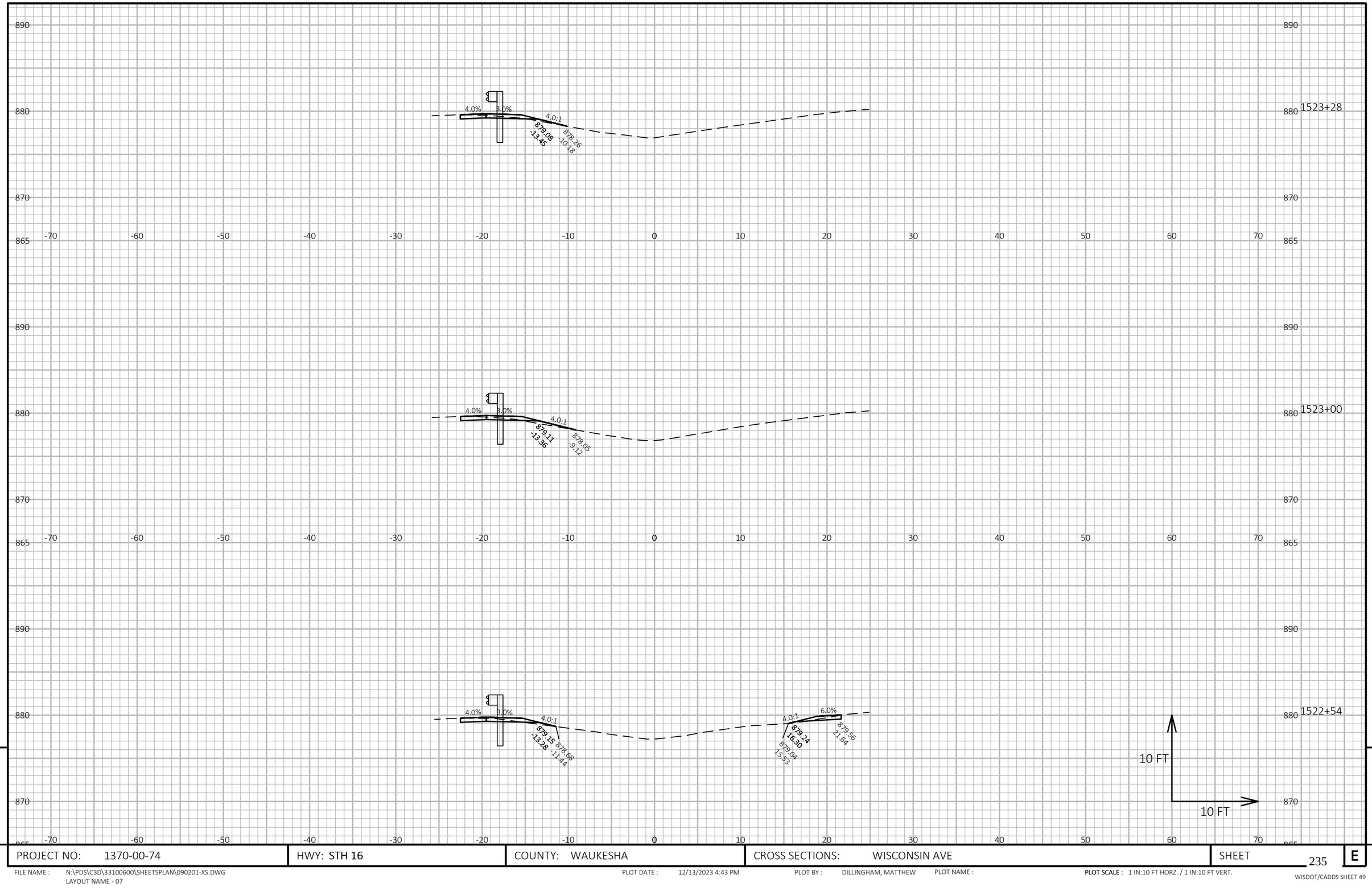
PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	CROSS SECTIONS: WISCONSIN AVE	SHEET 234	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 06

PLOT DATE : 12/13/2023 4:43 PM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: WAUKESHA	CROSS SECTIONS: WISCONSIN AVE	SHEET 235	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 07

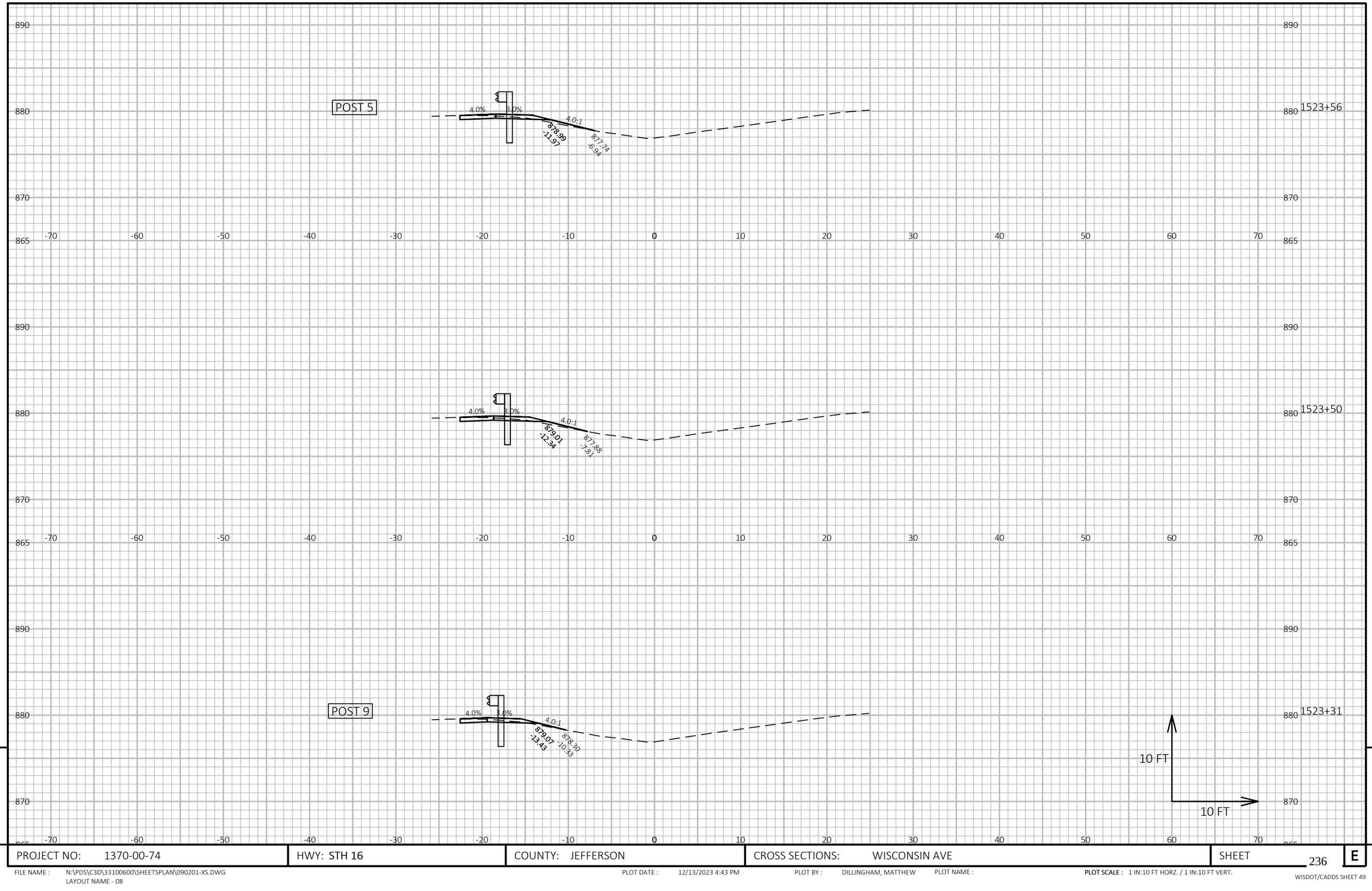
PLOT DATE : 12/13/2023 4:43 PM

PLOT BY : DILLINGHAM, MATTHEW

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



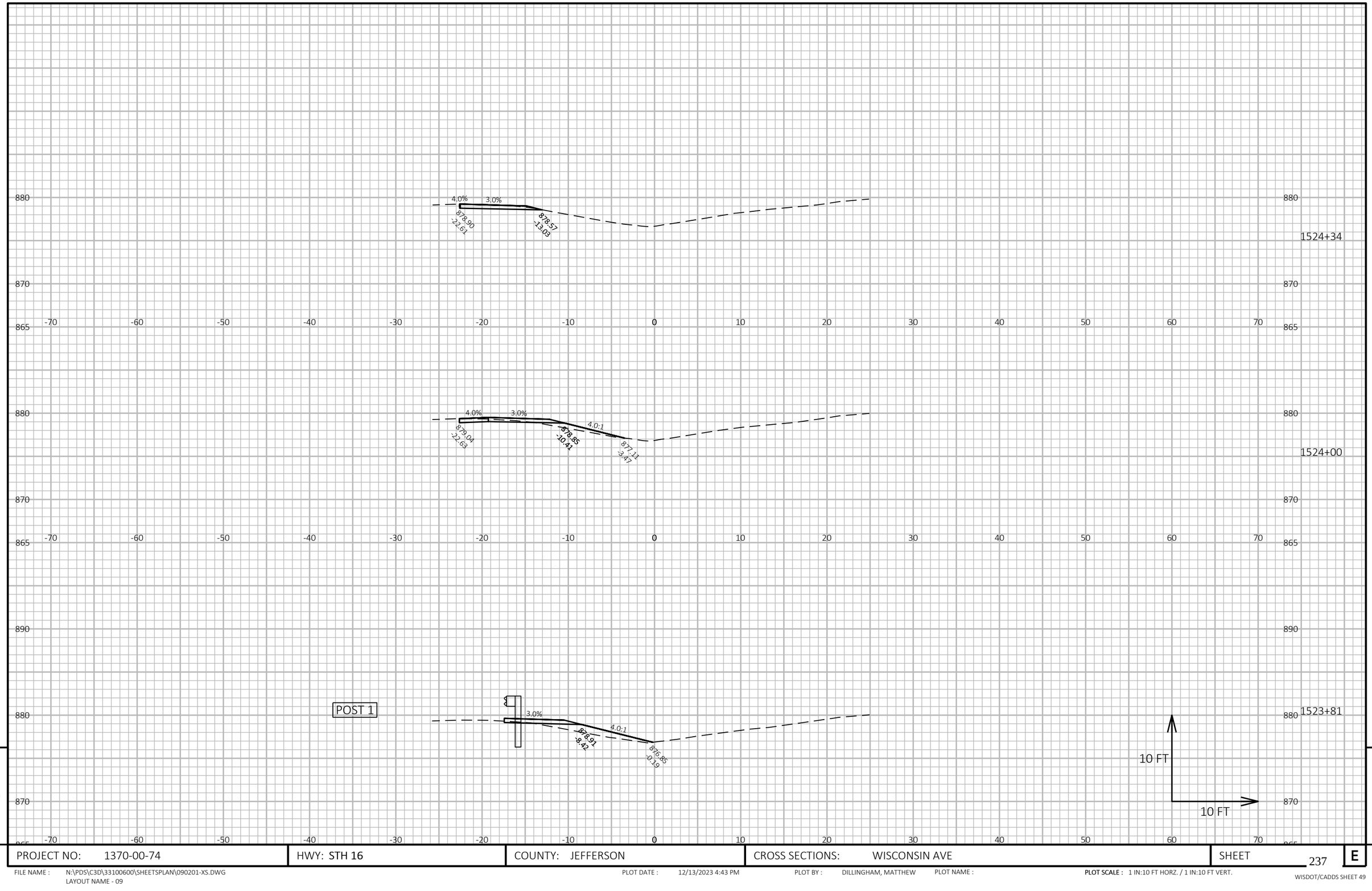
PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	CROSS SECTIONS: WISCONSIN AVE	SHEET 236	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 08

PLOT DATE : 12/13/2023 4:43 PM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

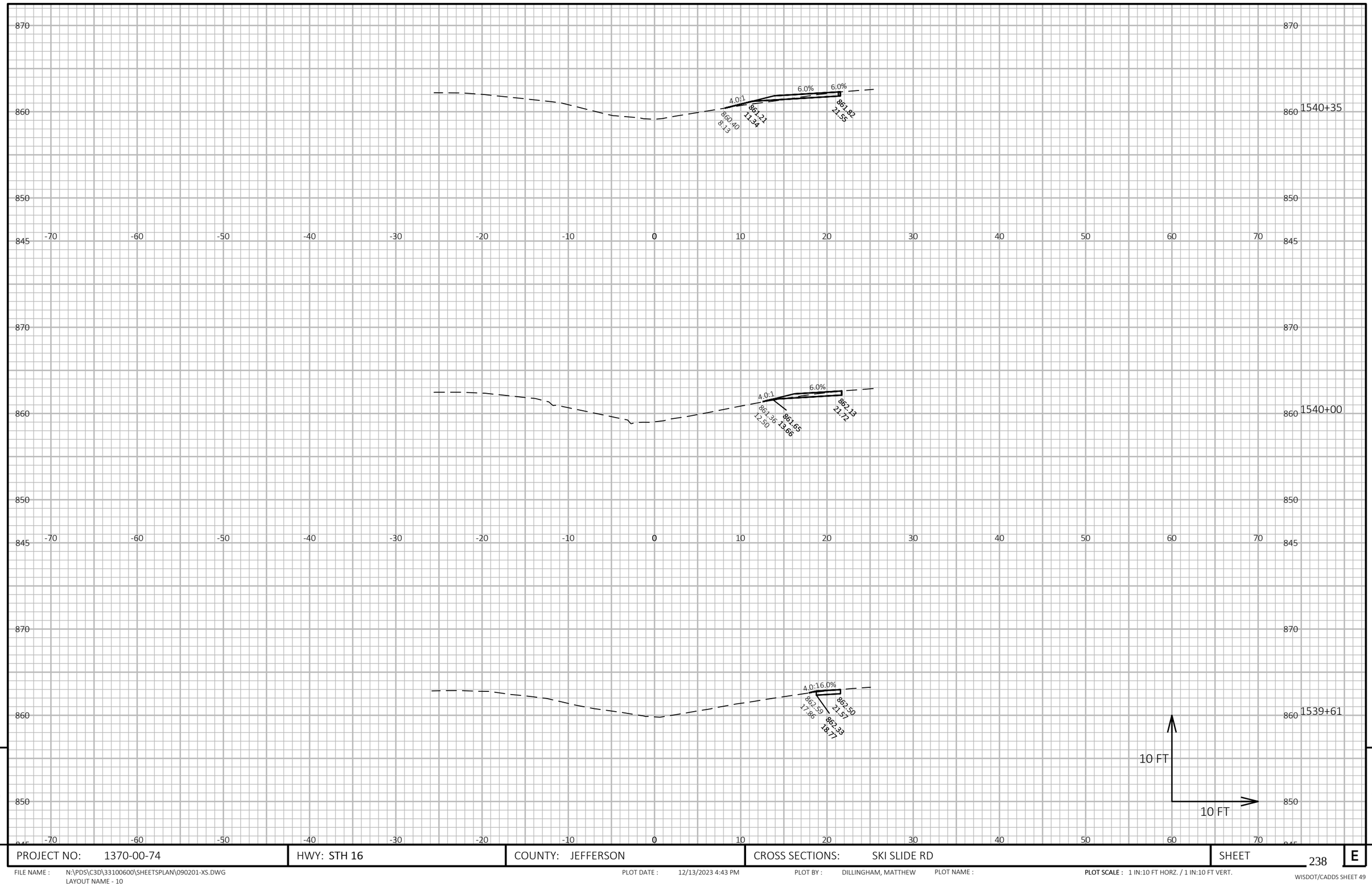


PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	CROSS SECTIONS: WISCONSIN AVE	SHEET 237	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 09

PLOT DATE : 12/13/2023 4:43 PM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	CROSS SECTIONS: SKI SLIDE RD	SHEET 238	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 10

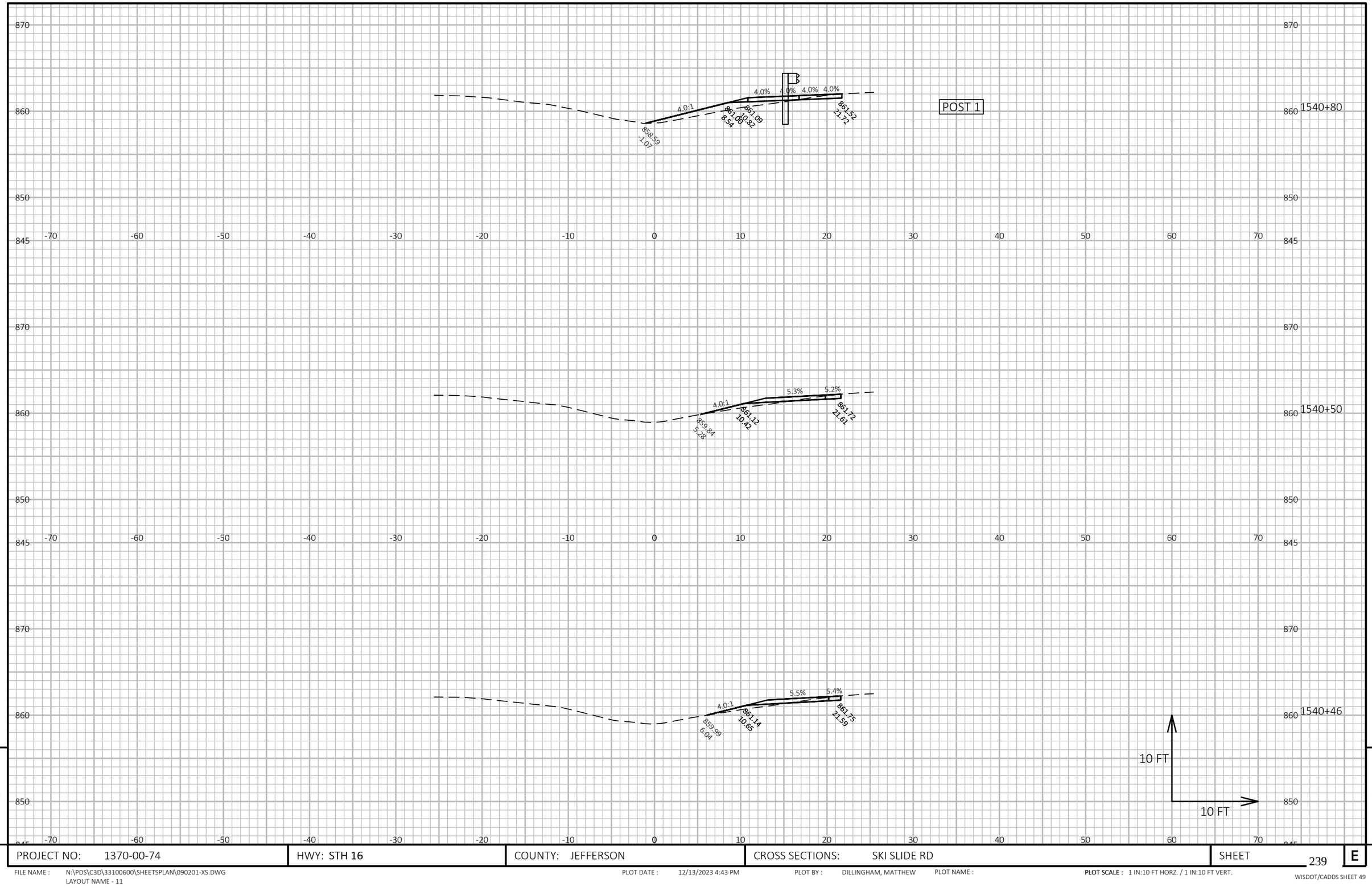
PLOT DATE : 12/13/2023 4:43 PM

PLOT BY : DILLINGHAM, MATTHEW

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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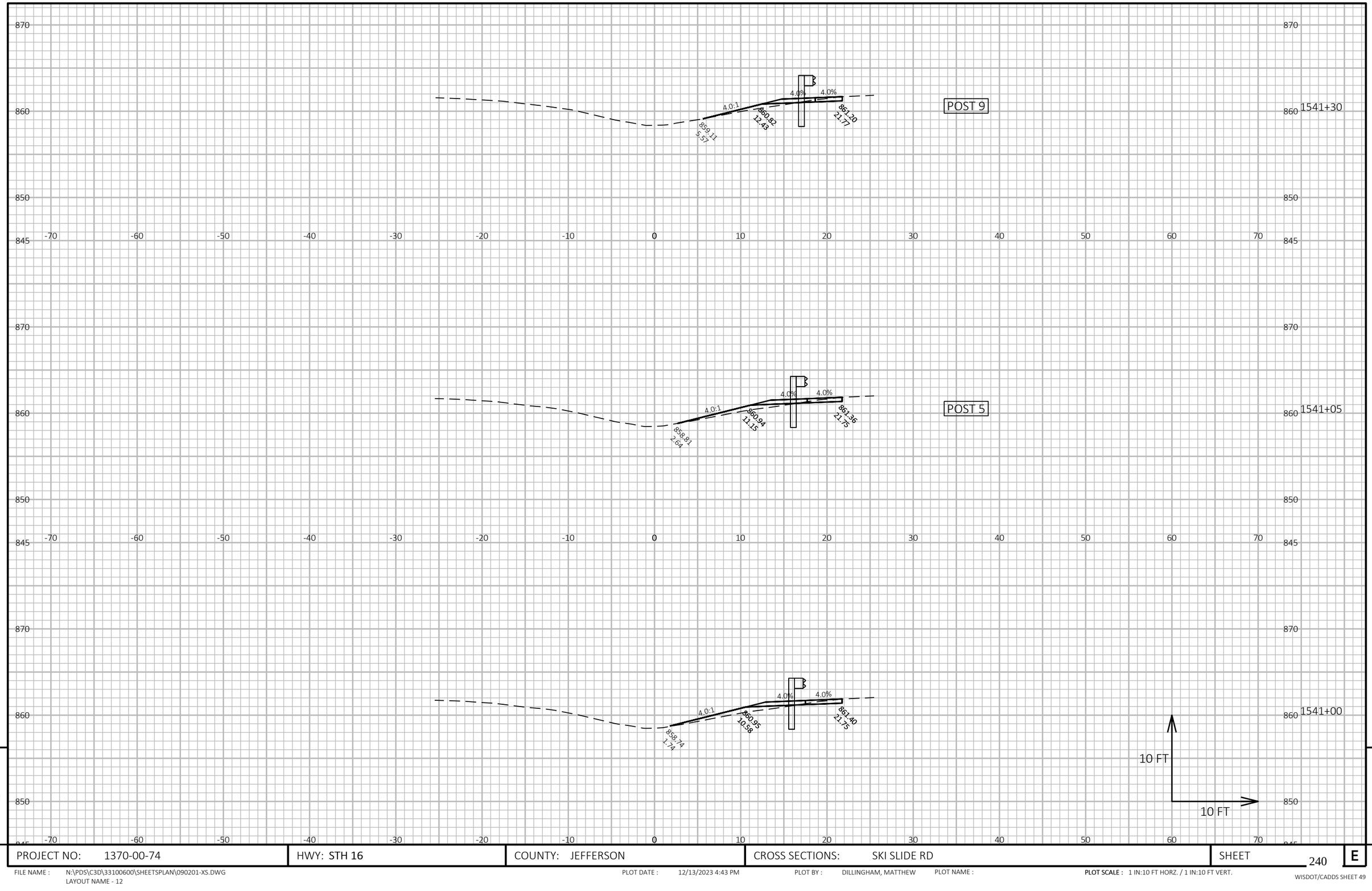
PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	CROSS SECTIONS: SKI SLIDE RD	SHEET 239	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 11

PLOT DATE : 12/13/2023 4:43 PM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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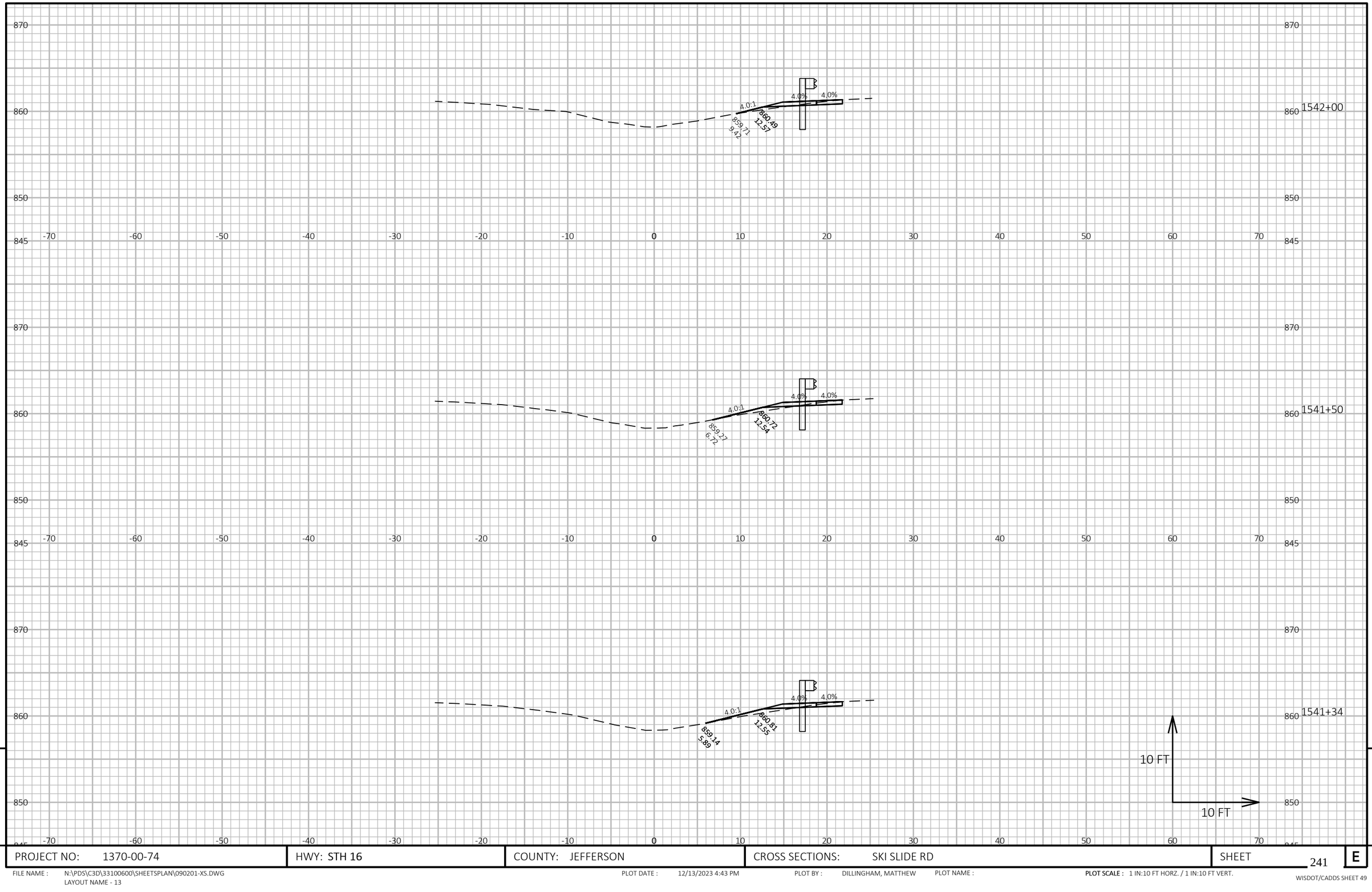
PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	CROSS SECTIONS: SKI SLIDE RD	SHEET 240	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 12

PLOT DATE : 12/13/2023 4:43 PM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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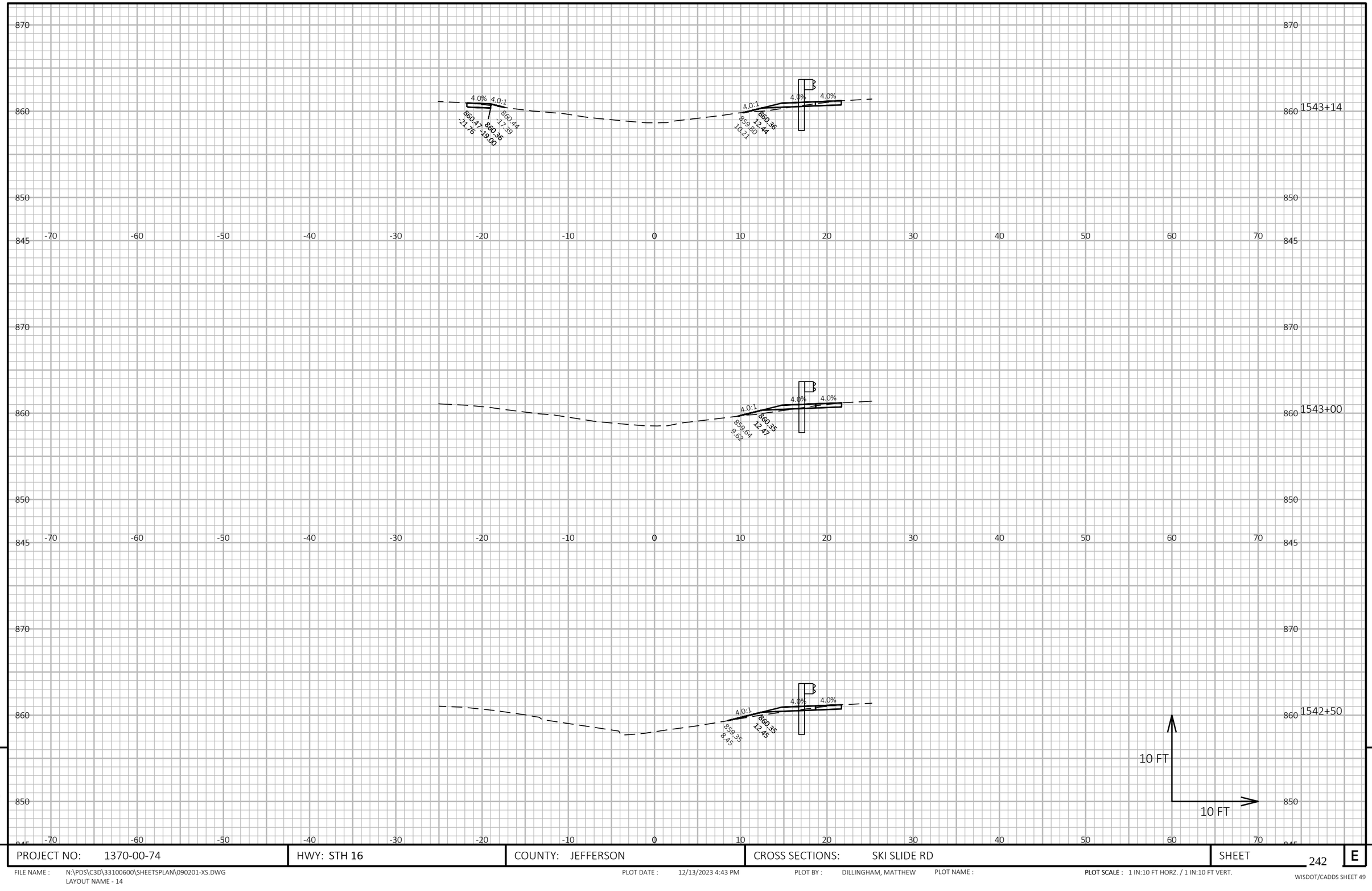
PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	CROSS SECTIONS: SKI SLIDE RD	SHEET 241	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 13

PLOT DATE : 12/13/2023 4:43 PM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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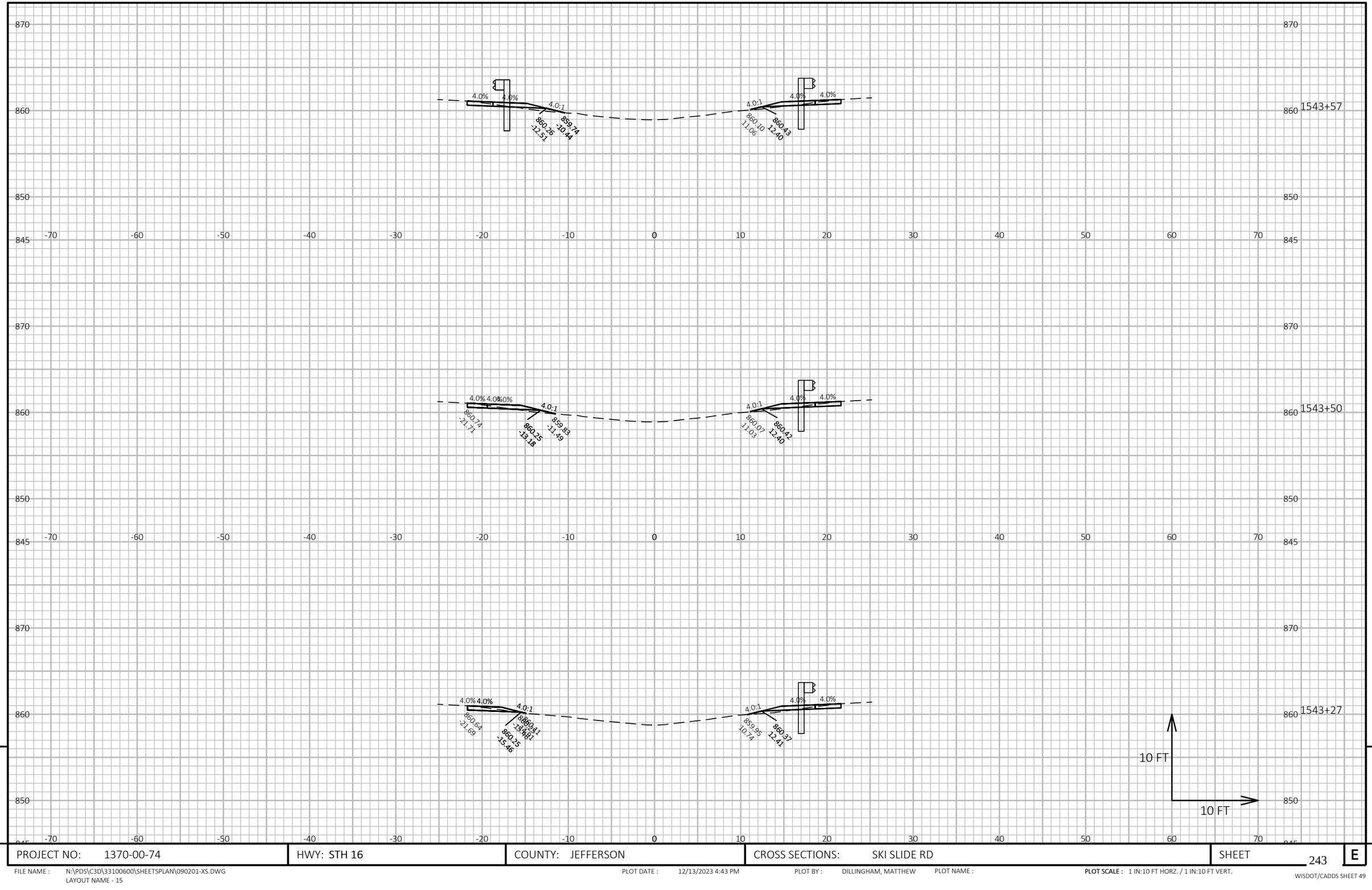
PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	CROSS SECTIONS: SKI SLIDE RD	SHEET 242	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 14

PLOT DATE : 12/13/2023 4:43 PM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	CROSS SECTIONS: SKI SLIDE RD	SHEET 243	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 15

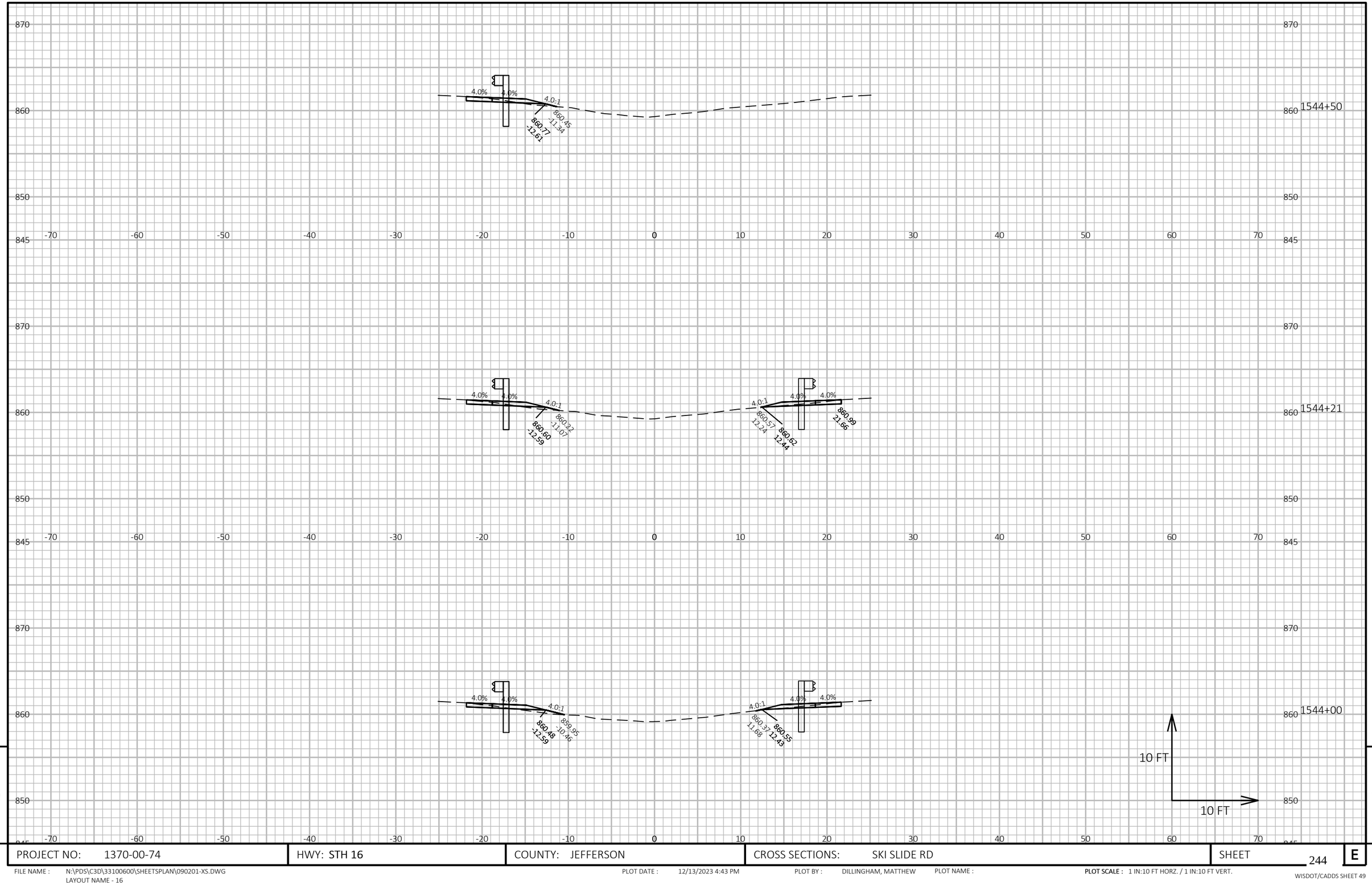
PLOT DATE : 12/13/2023 4:43 PM

PLOT BY : DILLINGHAM, MATTHEW

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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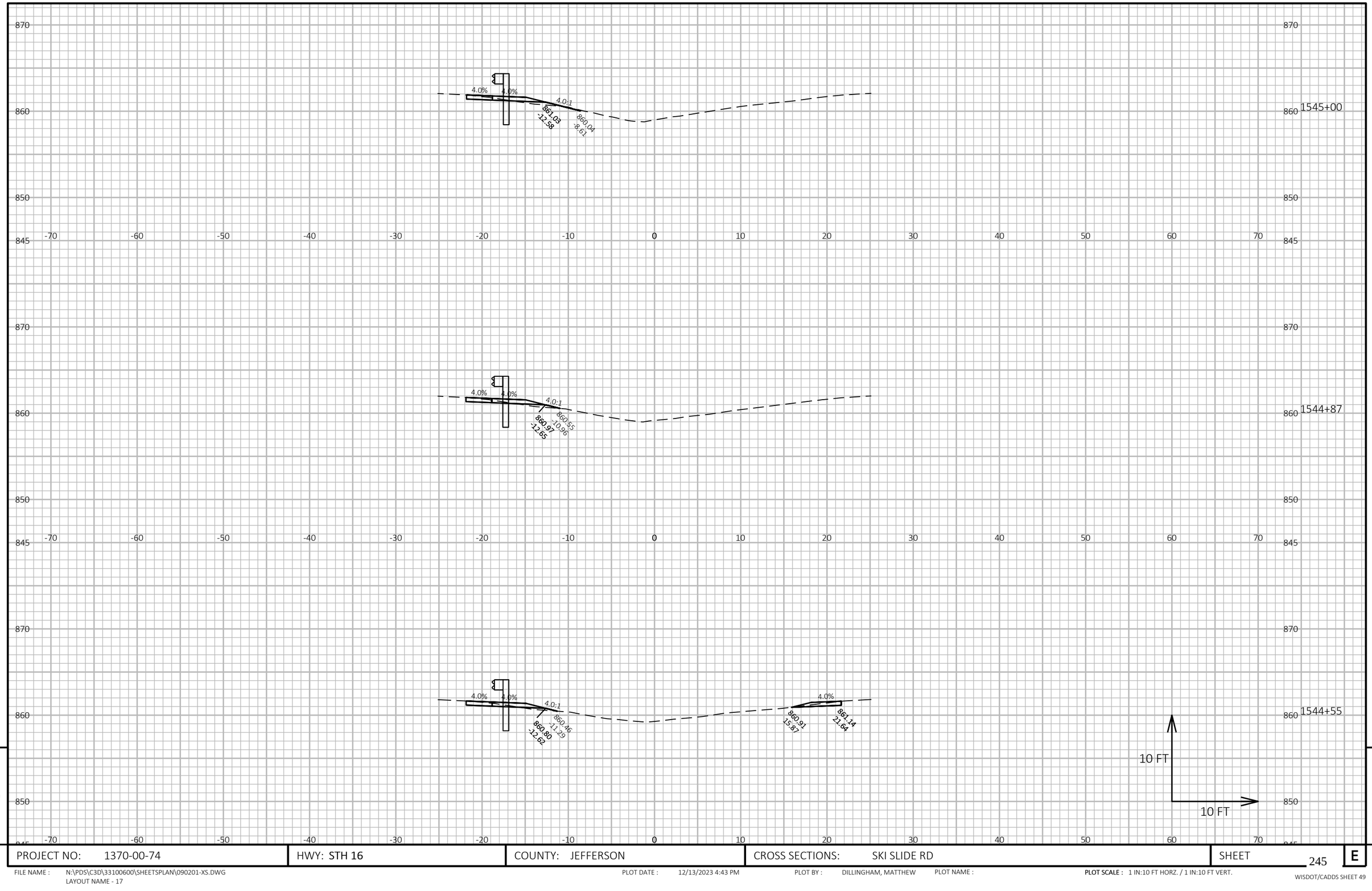
PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	CROSS SECTIONS: SKI SLIDE RD	SHEET 244	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 16

PLOT DATE : 12/13/2023 4:43 PM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	CROSS SECTIONS: SKI SLIDE RD	SHEET 245	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 17

PLOT DATE : 12/13/2023 4:43 PM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME :

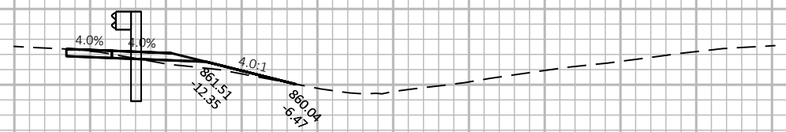
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

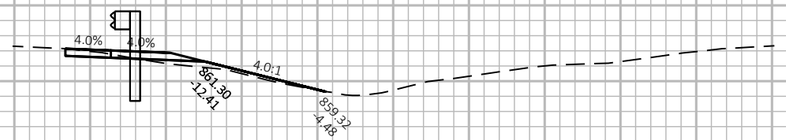
POST 9



1545+97



1545+94



1545+50

10 FT

10 FT

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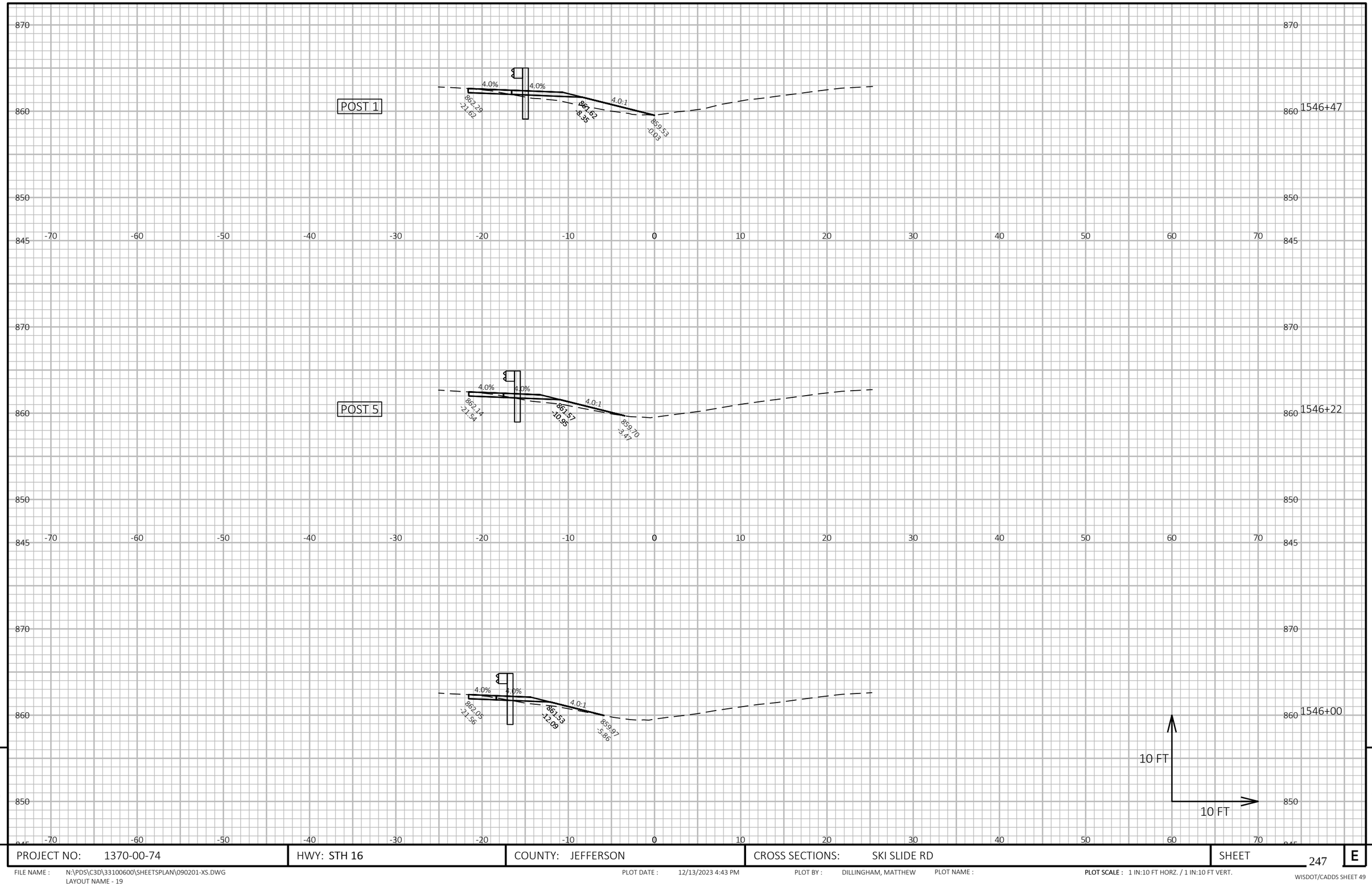
PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	CROSS SECTIONS: SKI SLIDE RD	SHEET 246	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 18

PLOT DATE : 12/13/2023 4:43 PM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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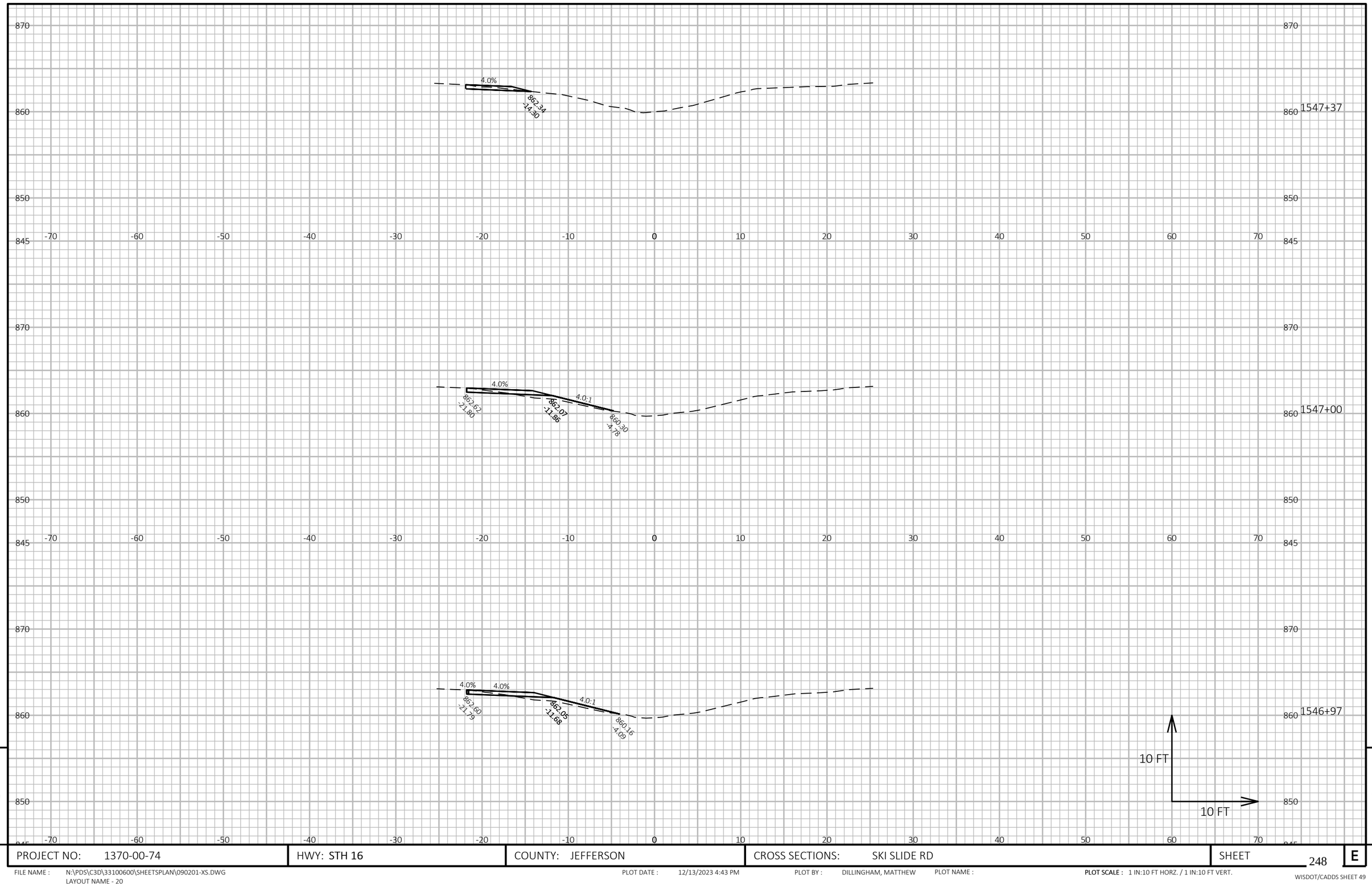
PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	CROSS SECTIONS: SKI SLIDE RD	SHEET 247	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 19

PLOT DATE : 12/13/2023 4:43 PM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	CROSS SECTIONS: SKI SLIDE RD	SHEET 248	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 20

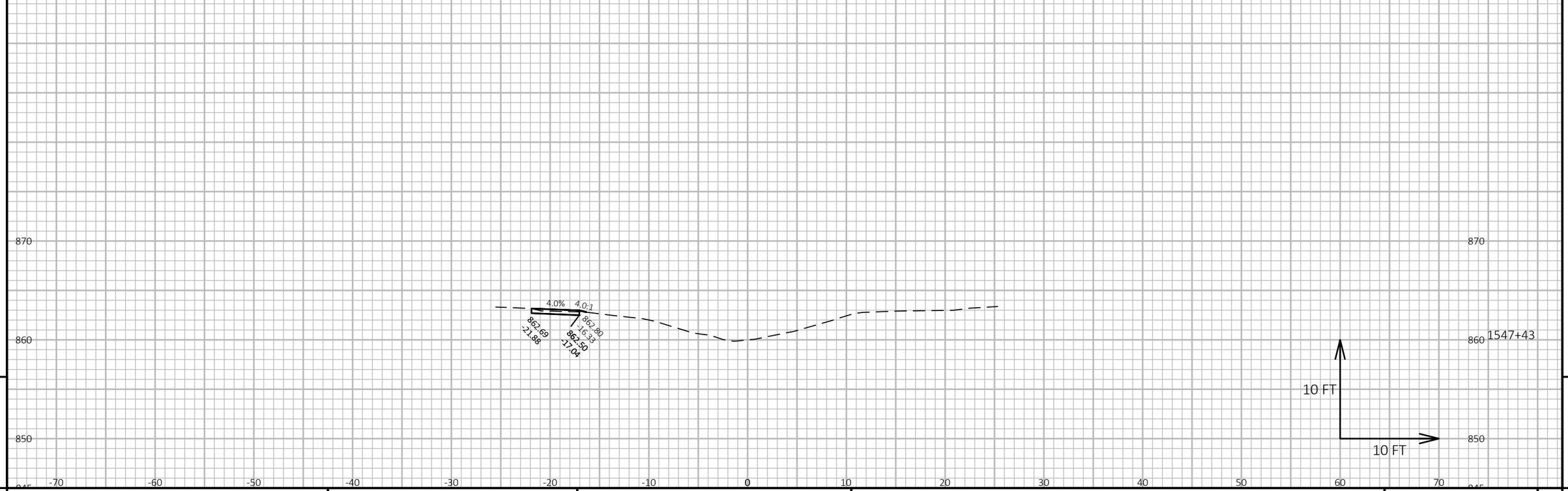
PLOT DATE : 12/13/2023 4:43 PM

PLOT BY : DILLINGHAM, MATTHEW

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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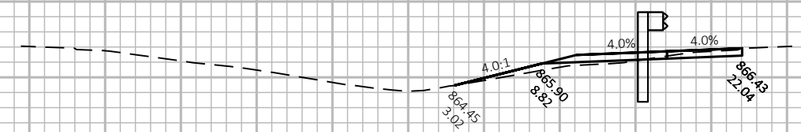
PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	CROSS SECTIONS: SKI SLIDE RD	SHEET 249	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 21

PLOT DATE : 12/13/2023 4:43 PM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

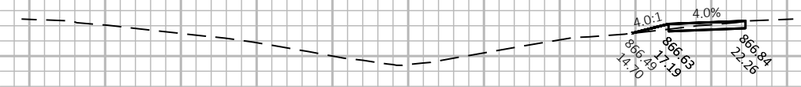


POST 1

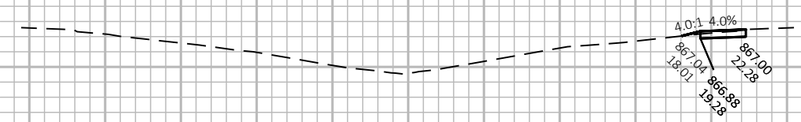
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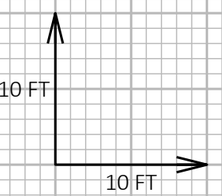
1592+50



1592+00



1591+69



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PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	CROSS SECTIONS: LANG RD	SHEET 250	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 22

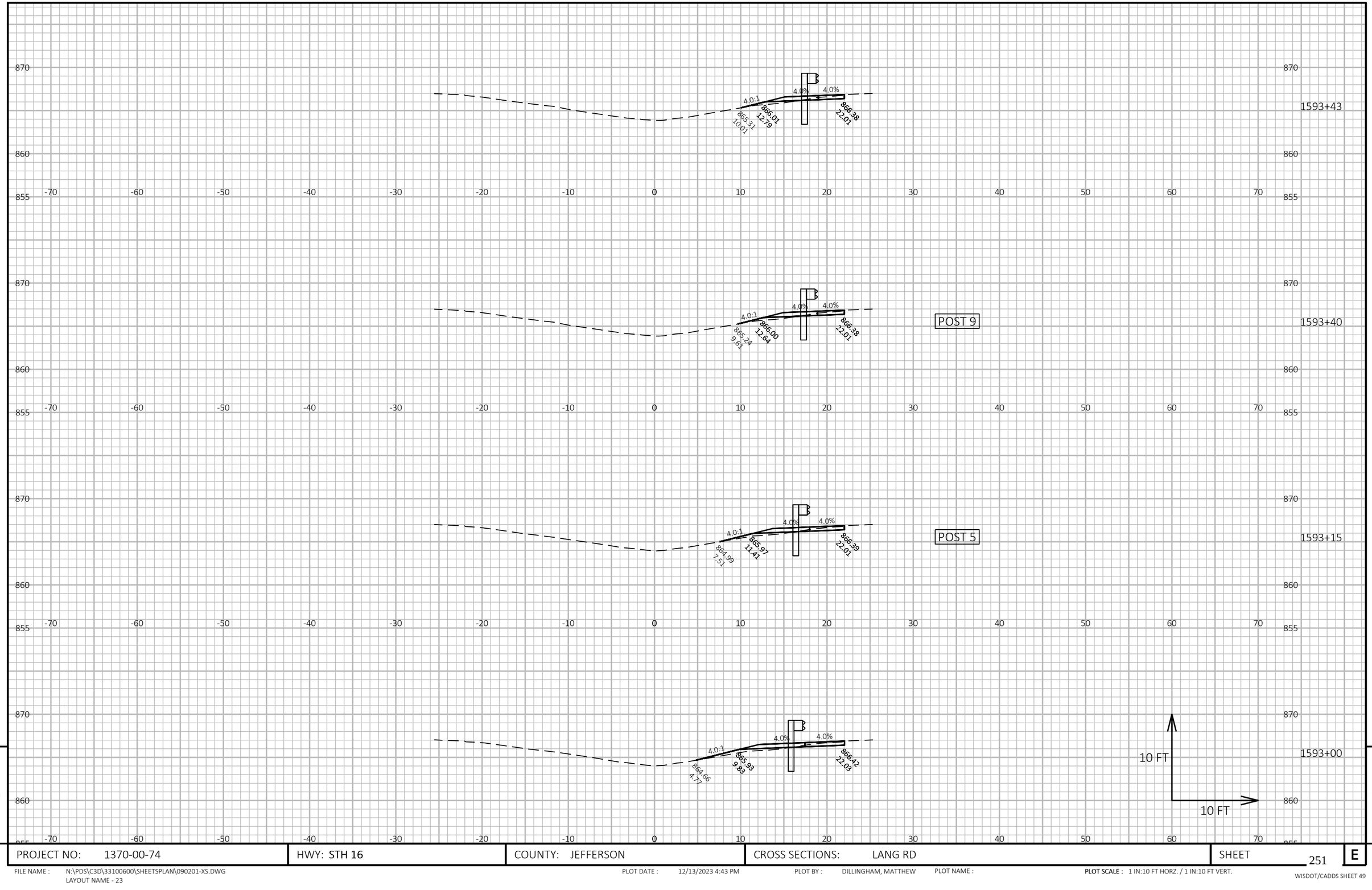
PLOT DATE : 12/13/2023 4:43 PM

PLOT BY : DILLINGHAM, MATTHEW

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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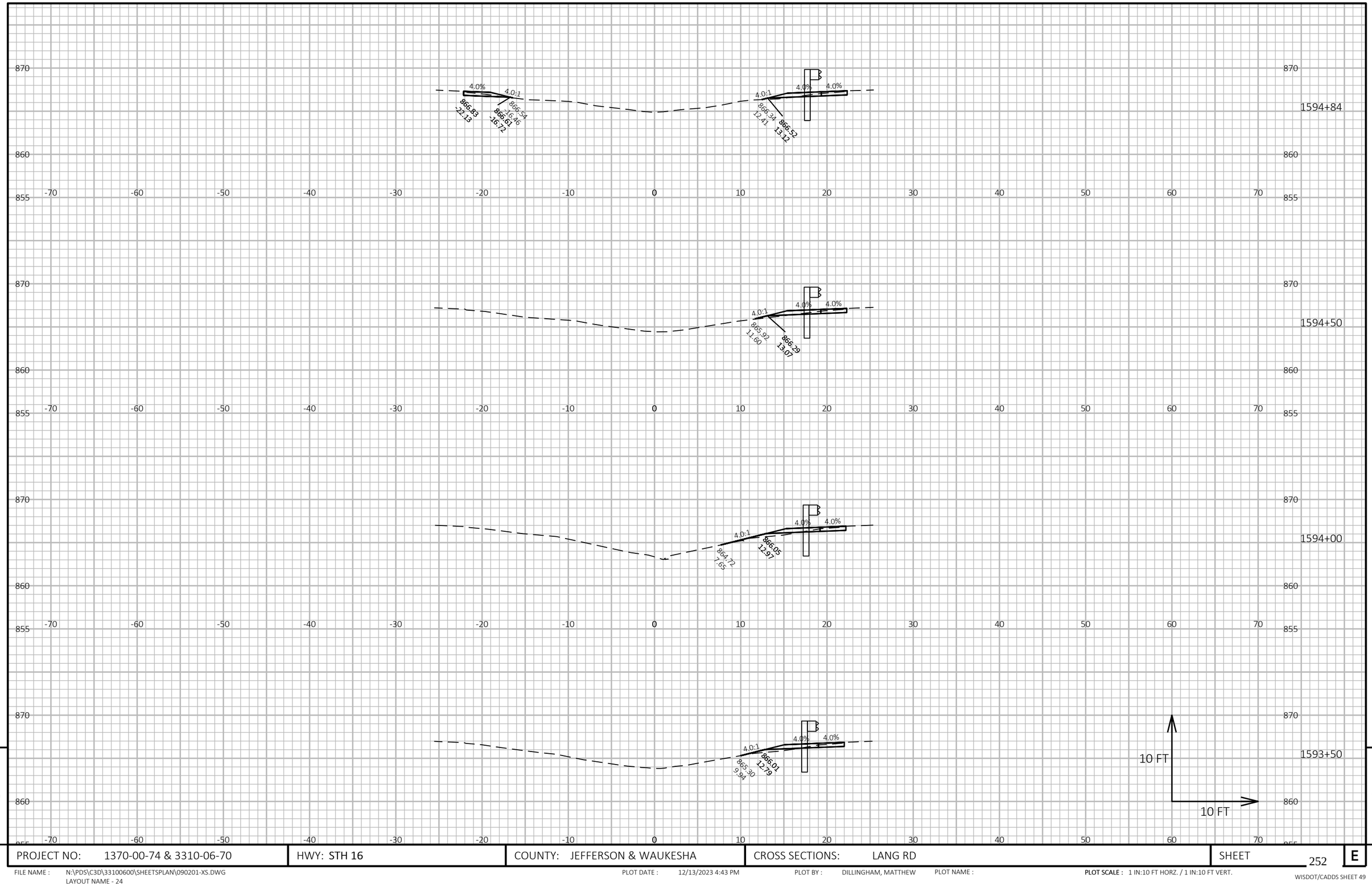
PROJECT NO: 1370-00-74	HWY: STH 16	COUNTY: JEFFERSON	CROSS SECTIONS: LANG RD	SHEET 251	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 23

PLOT DATE : 12/13/2023 4:43 PM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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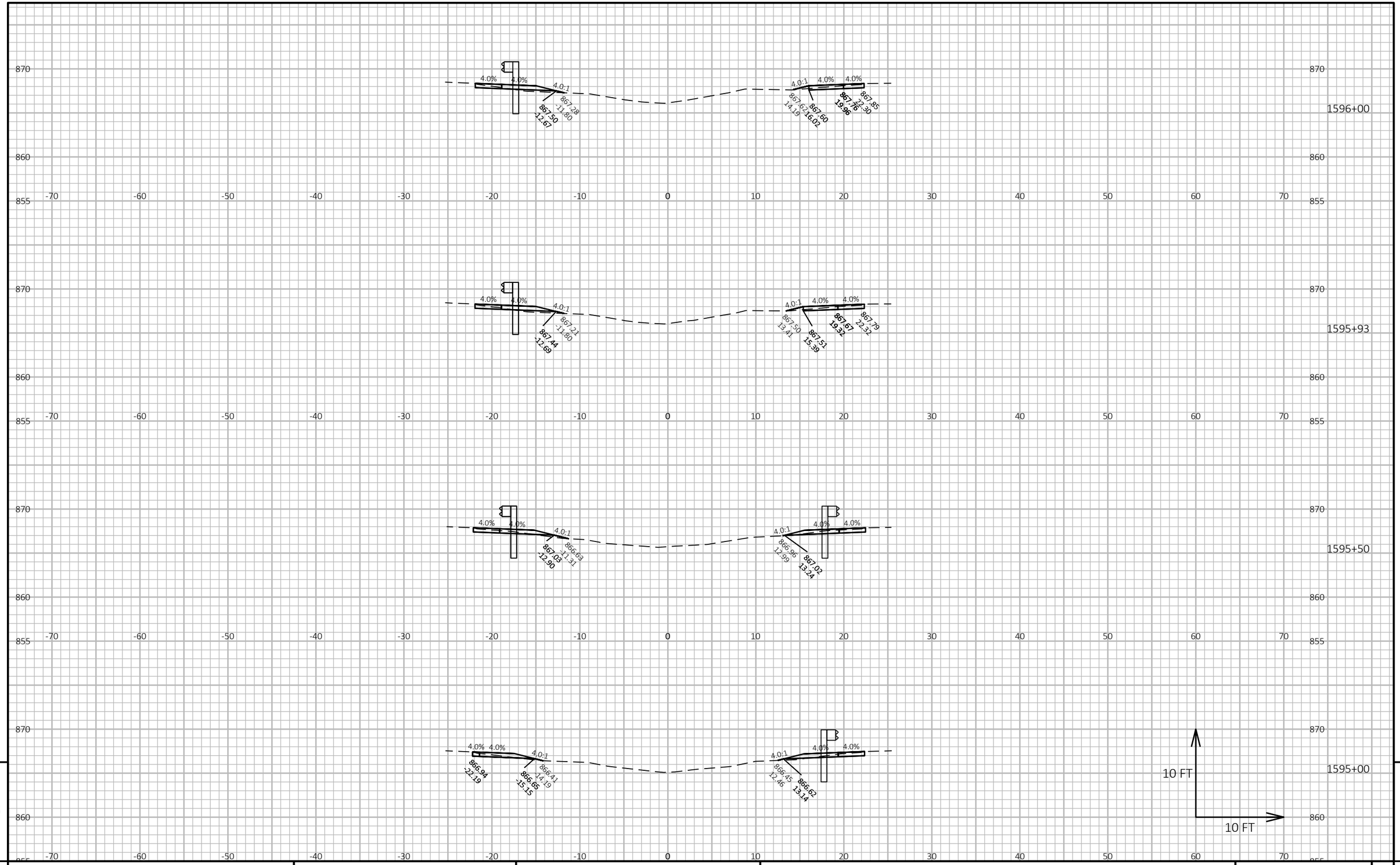
PROJECT NO: 1370-00-74 & 3310-06-70	HWY: STH 16	COUNTY: JEFFERSON & WAUKESHA	CROSS SECTIONS: LANG RD	SHEET 252	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 24

PLOT DATE : 12/13/2023 4:43 PM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



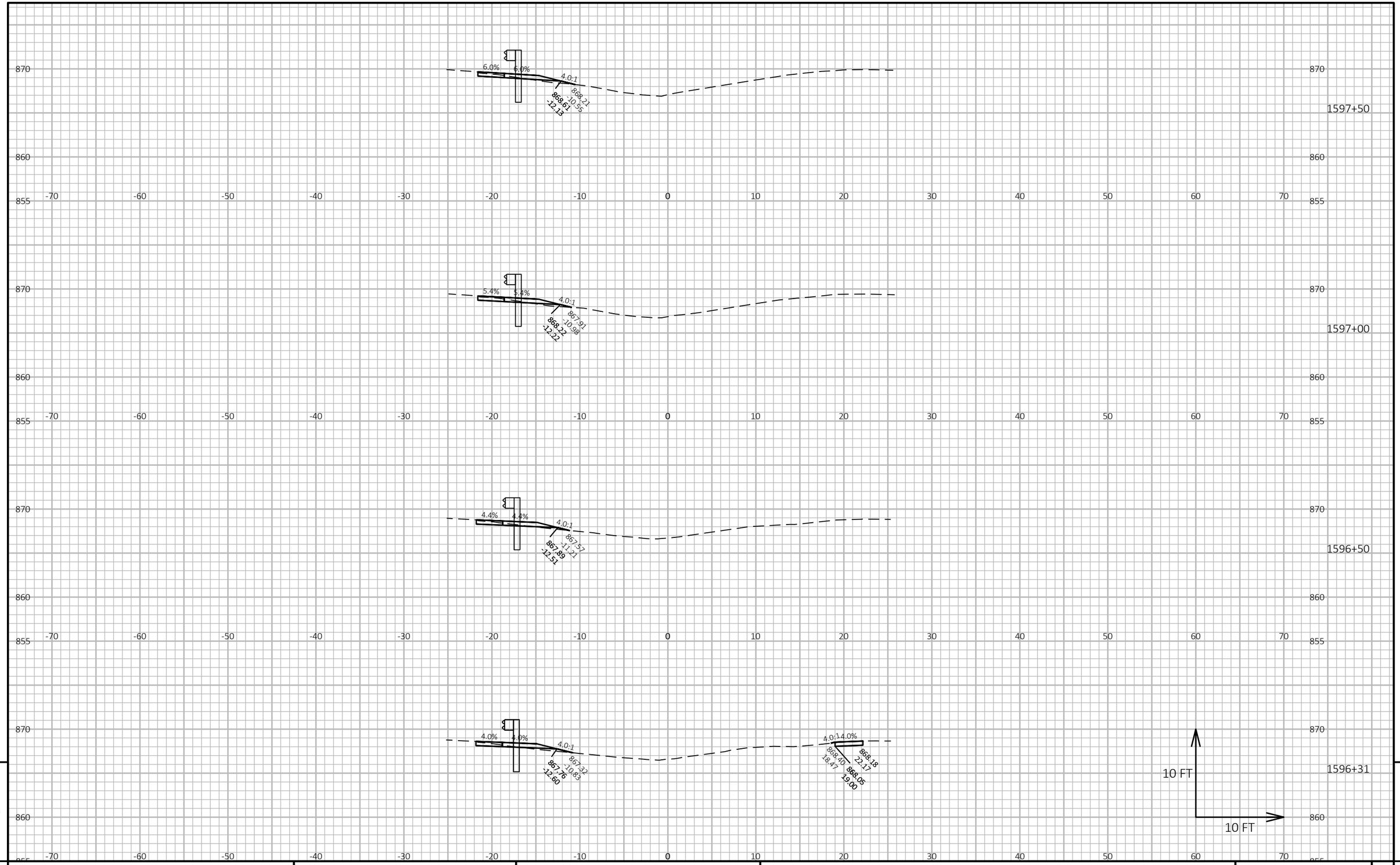
PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	CROSS SECTIONS: LANG RD	SHEET 253	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 25

PLOT DATE : 12/13/2023 4:43 PM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	CROSS SECTIONS: LANG RD	SHEET 254	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 26

PLOT DATE : 12/13/2023 4:43 PM

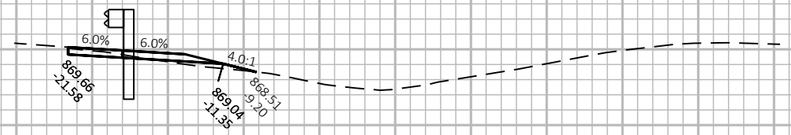
PLOT BY : DILLINGHAM, MATTHEW

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

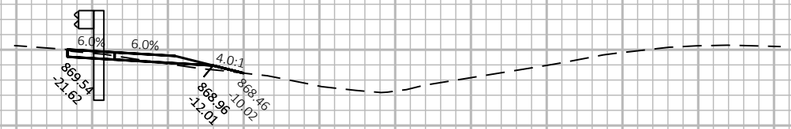
WISDOT/CADDS SHEET 49

880
870
860
855
-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70



1598+00

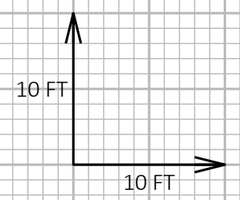
POST 9



1597+87



1597+84



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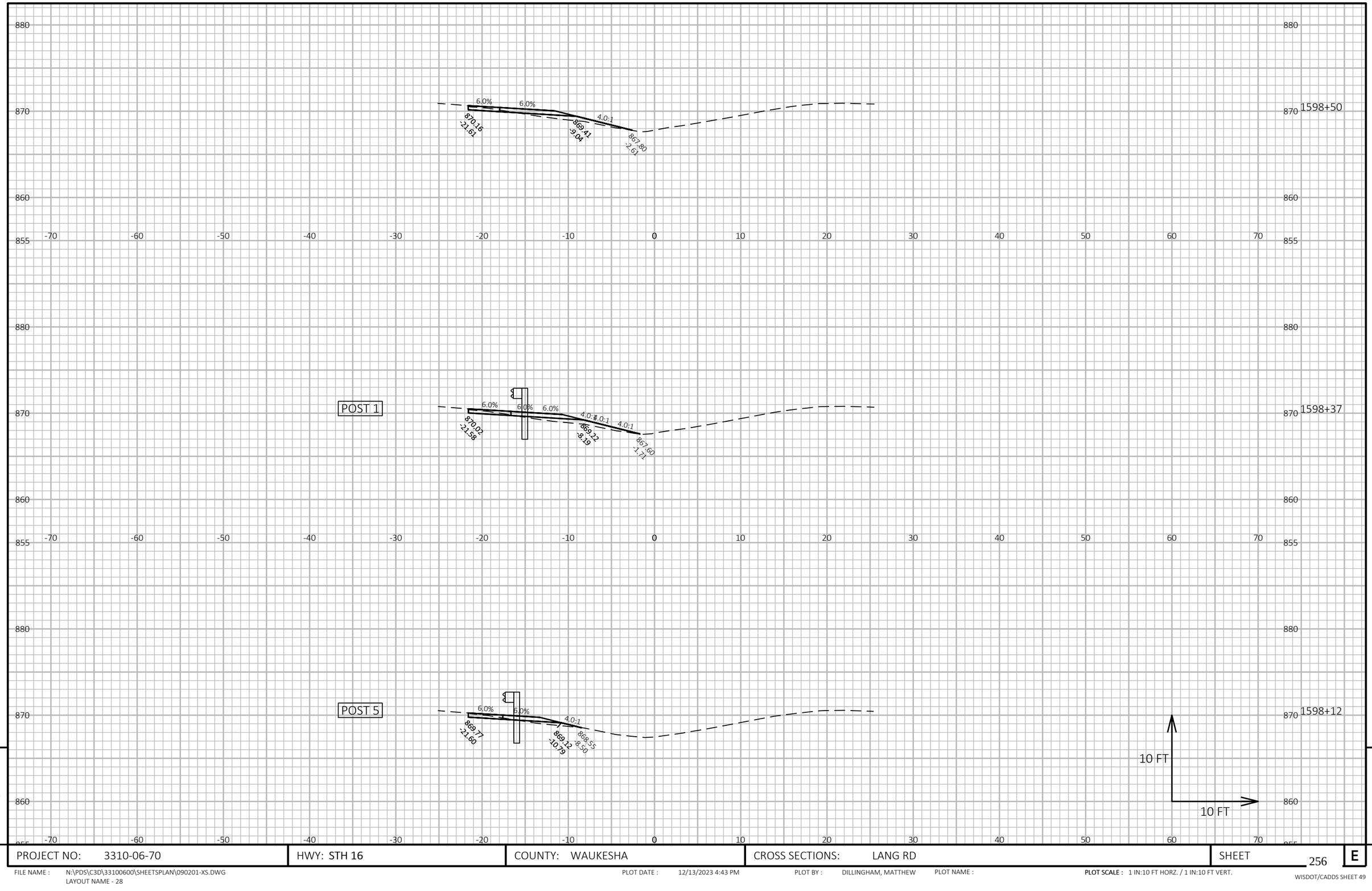
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PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	CROSS SECTIONS: LANG RD	SHEET 255	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 27

PLOT DATE : 12/13/2023 4:43 PM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

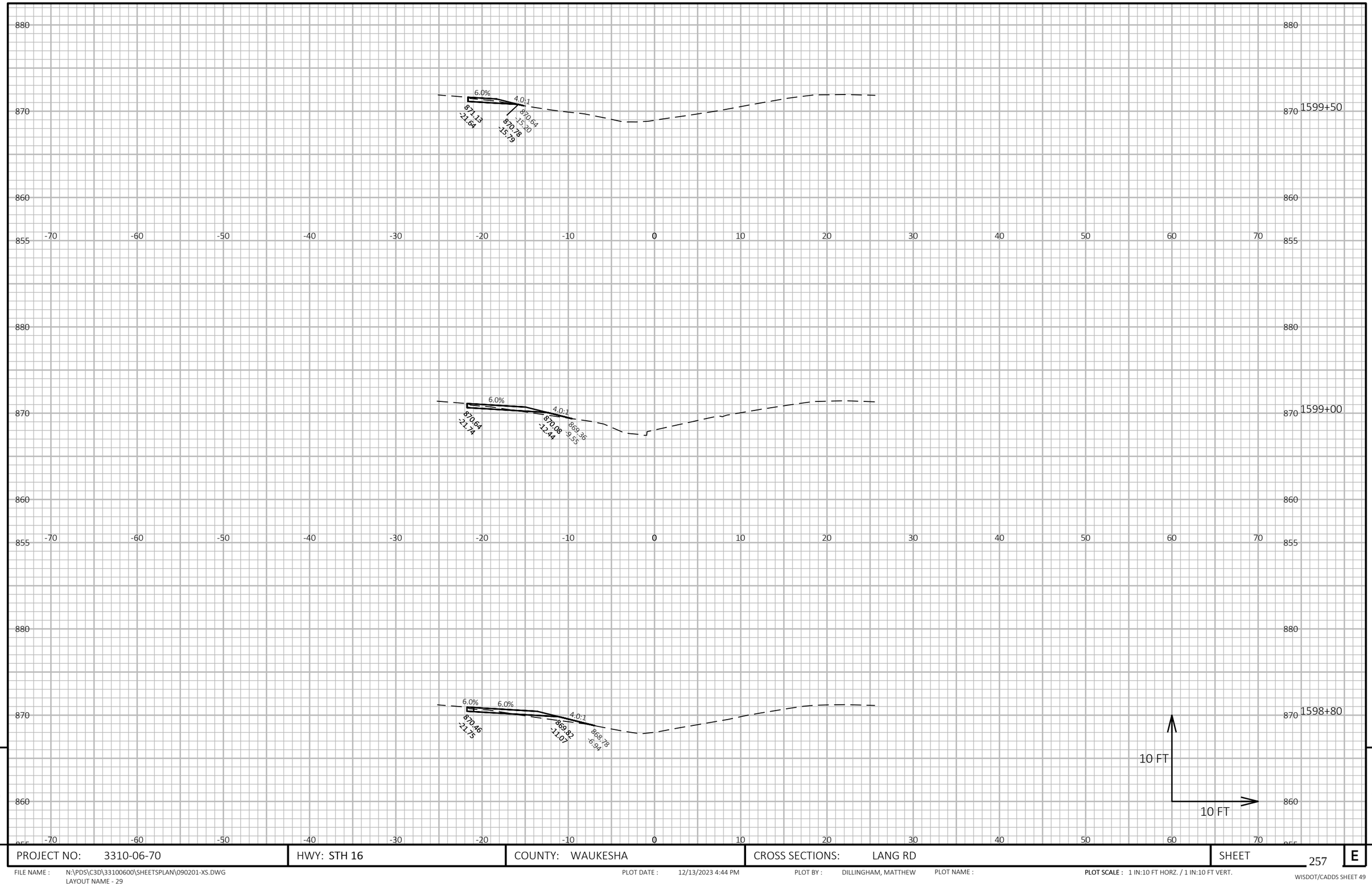
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PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	CROSS SECTIONS: LANG RD	SHEET 256	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 28

PLOT DATE : 12/13/2023 4:43 PM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

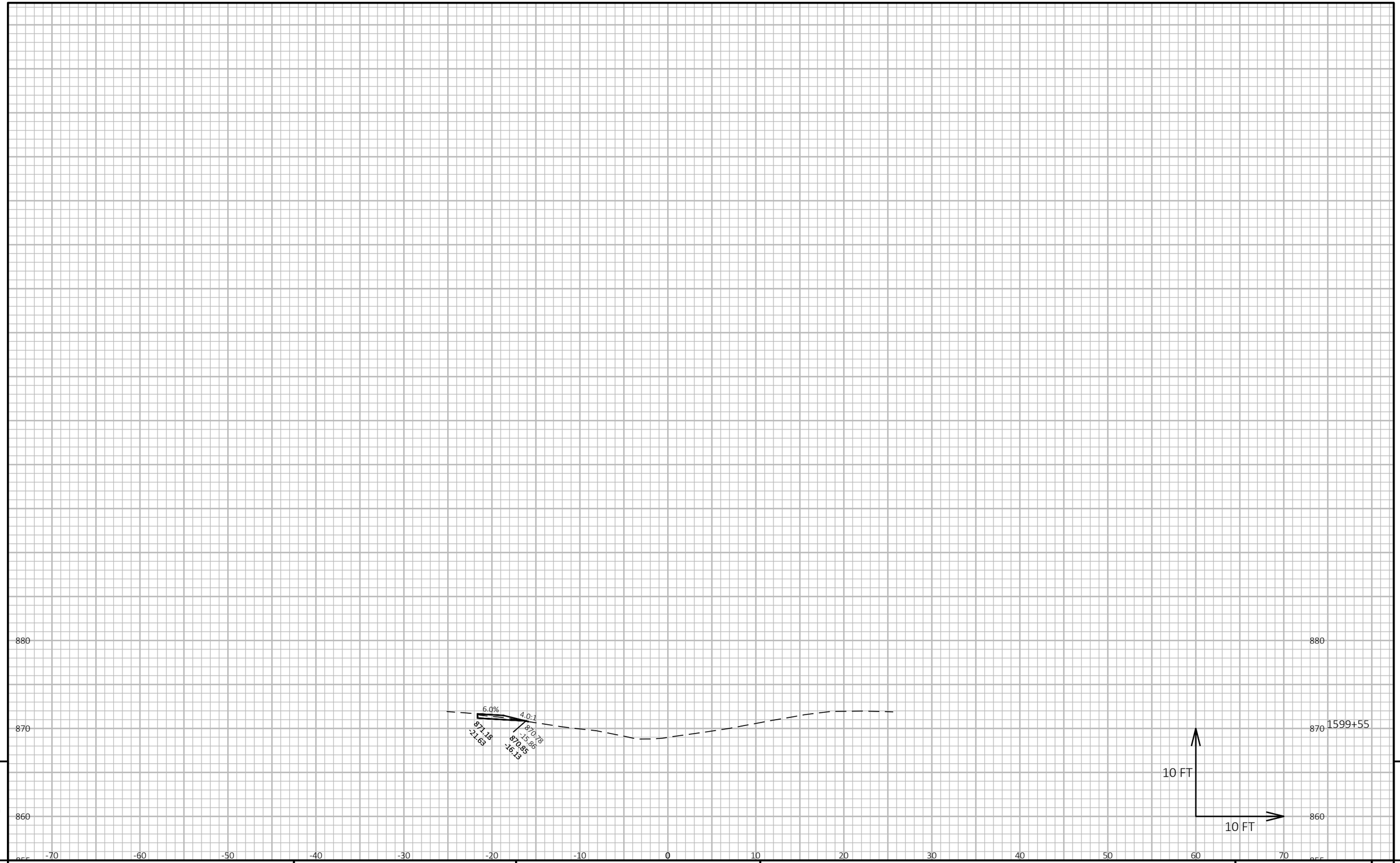
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PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	CROSS SECTIONS: LANG RD	SHEET 257	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 29

PLOT DATE : 12/13/2023 4:44 PM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	CROSS SECTIONS: LANG RD	SHEET 258	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 30

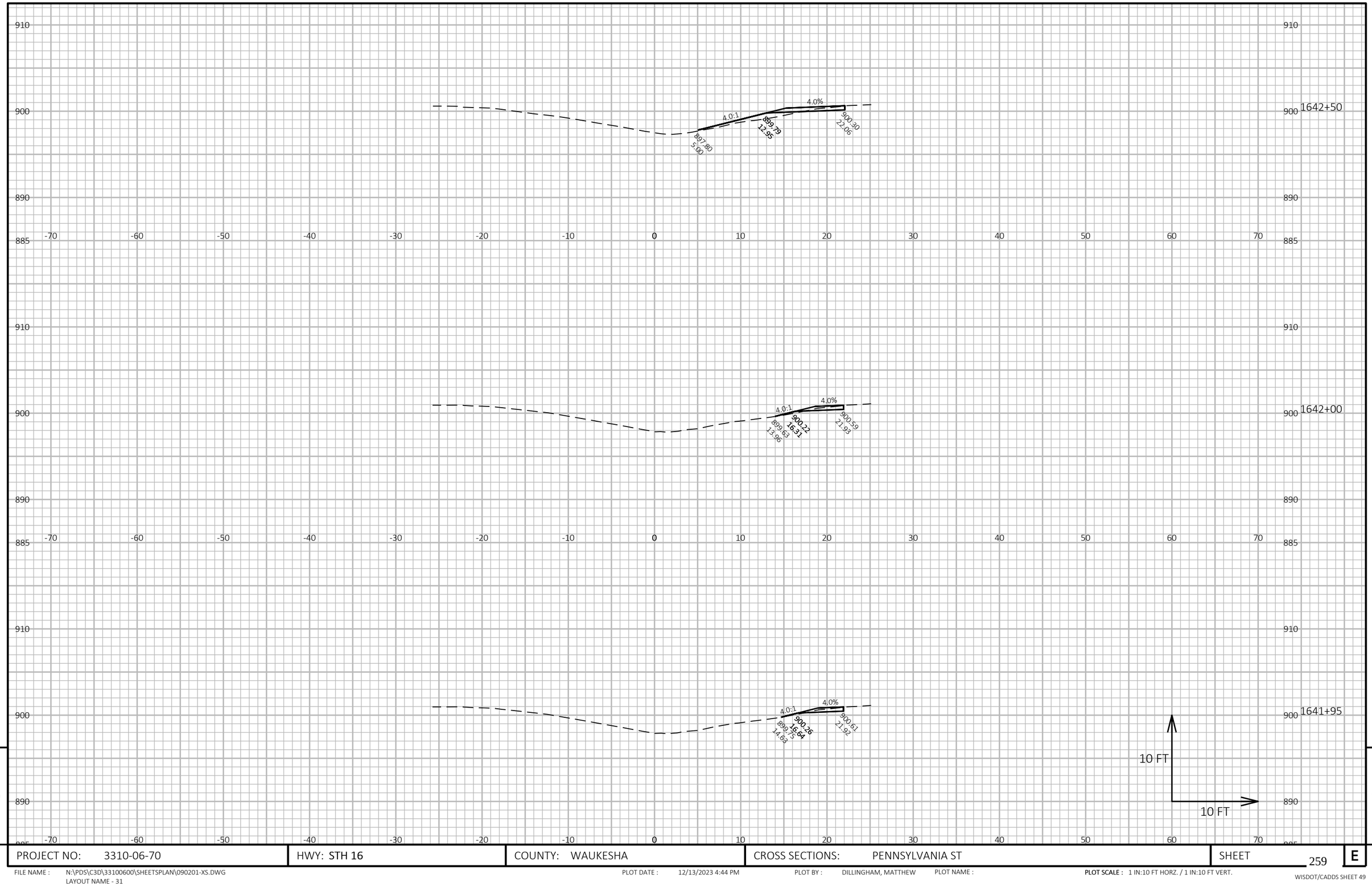
PLOT DATE : 12/13/2023 4:44 PM

PLOT BY : DILLINGHAM, MATTHEW

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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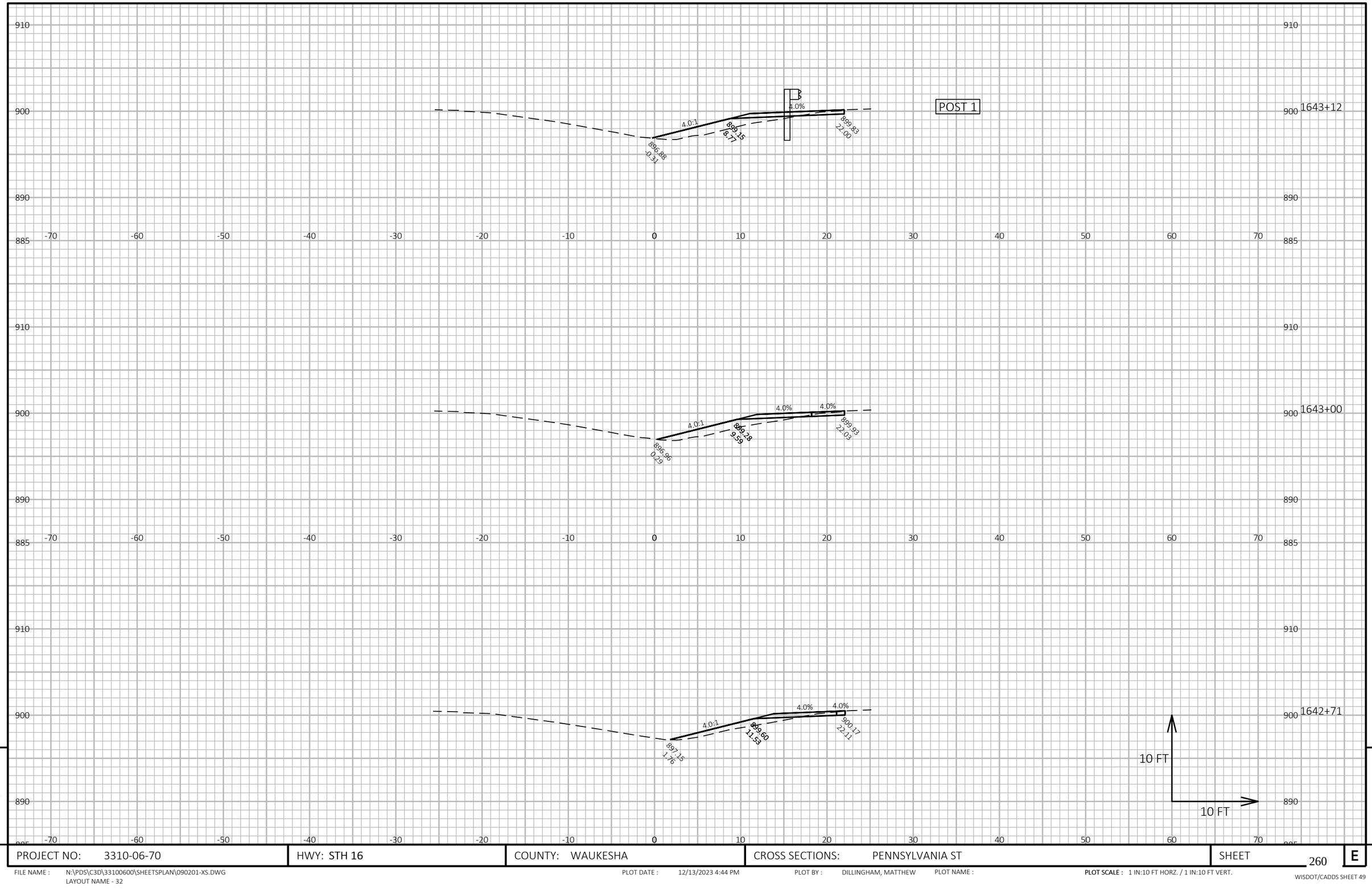
PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	CROSS SECTIONS: PENNSYLVANIA ST	SHEET 259	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 31

PLOT DATE : 12/13/2023 4:44 PM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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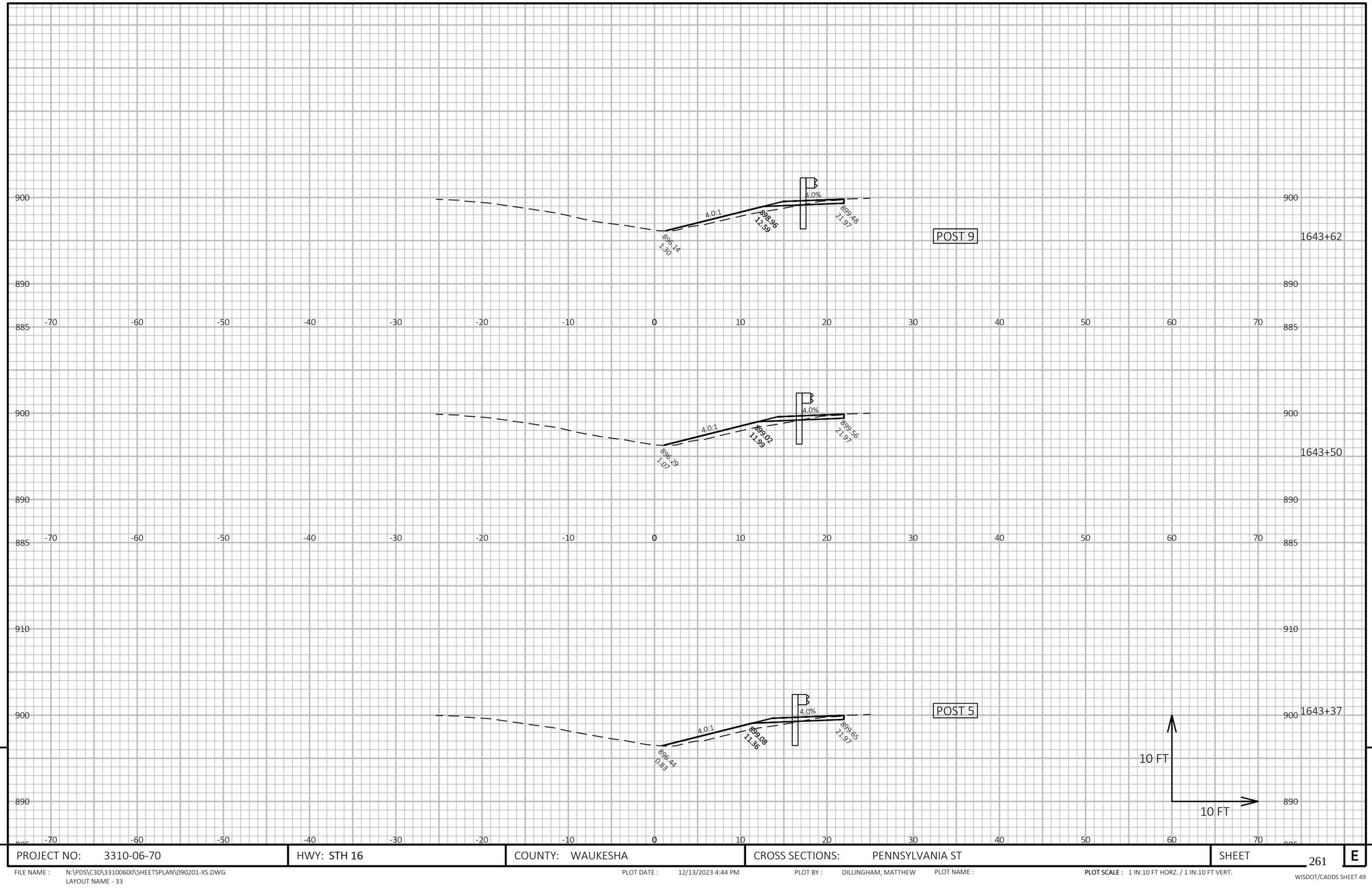
PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	CROSS SECTIONS: PENNSYLVANIA ST	SHEET 260	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 32

PLOT DATE : 12/13/2023 4:44 PM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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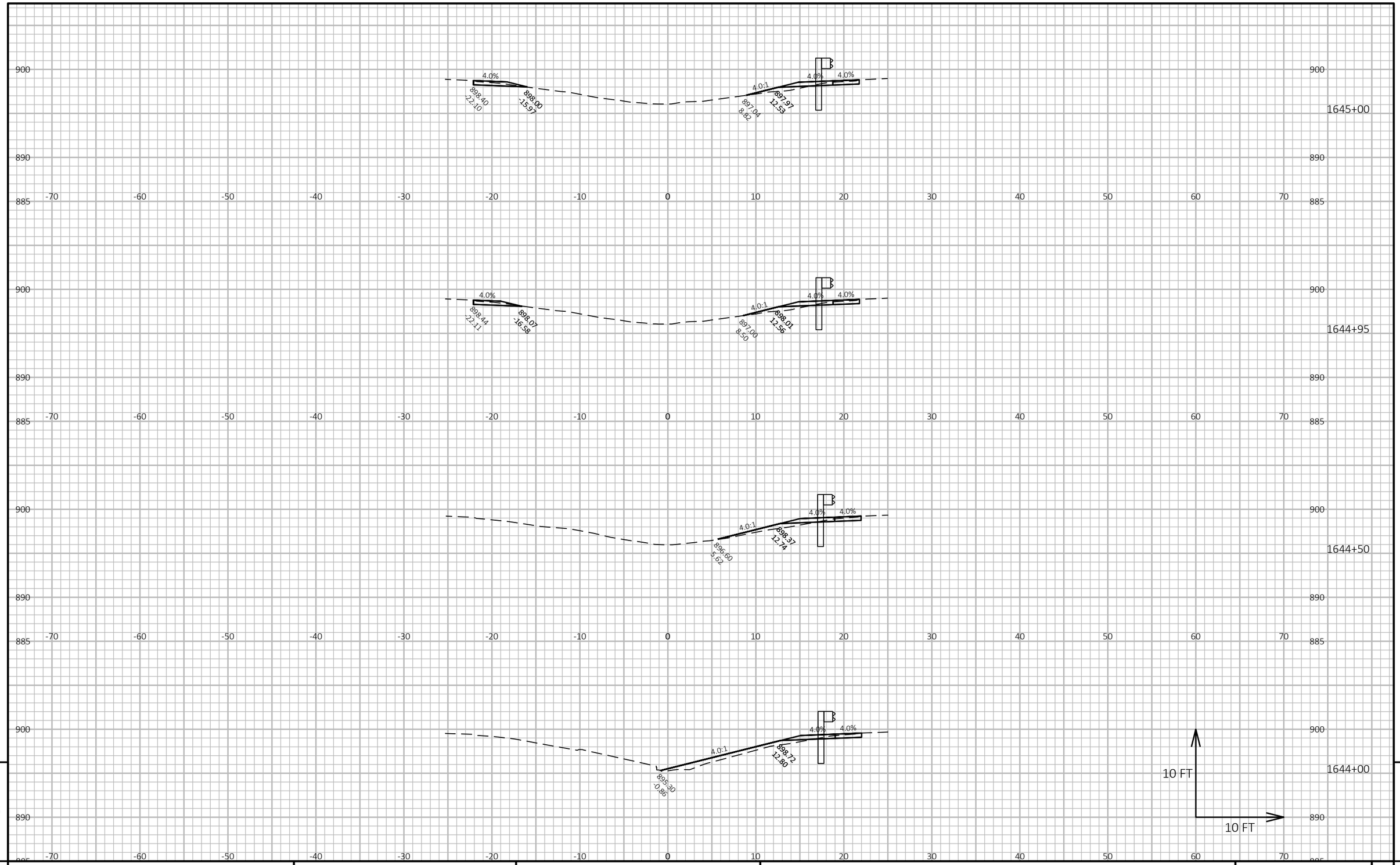
PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	CROSS SECTIONS: PENNSYLVANIA ST	SHEET 261	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 33

PLOT DATE : 12/13/2023 4:44 PM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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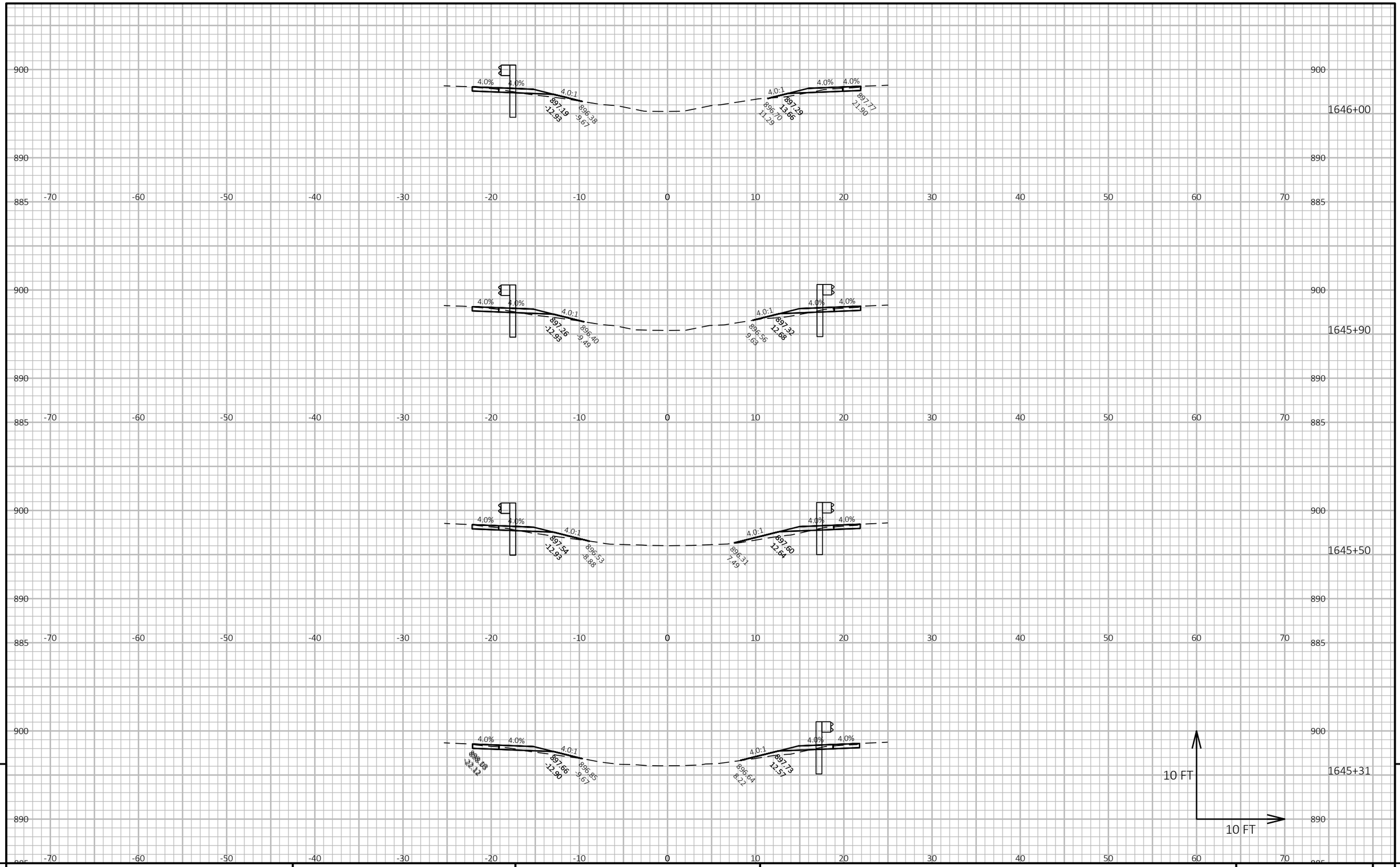
PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	CROSS SECTIONS: PENNSYLVANIA ST	SHEET 262	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 34

PLOT DATE : 12/13/2023 4:44 PM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	CROSS SECTIONS: PENNSYLVANIA ST	SHEET 263	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 35

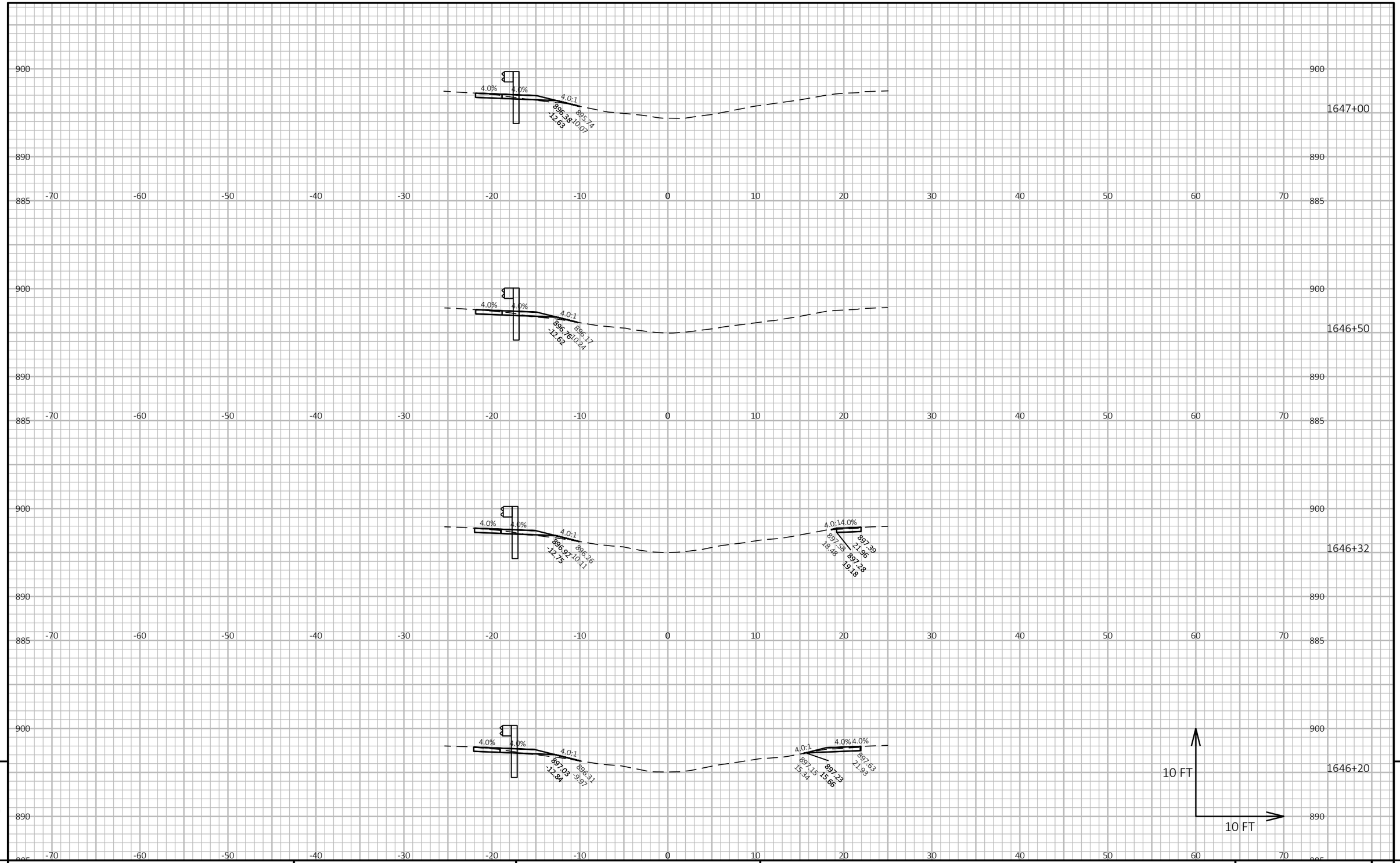
PLOT DATE : 12/13/2023 4:44 PM

PLOT BY : DILLINGHAM, MATTHEW

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

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PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	CROSS SECTIONS: PENNSYLVANIA ST	SHEET 264	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 36

PLOT DATE : 12/13/2023 4:44 PM

PLOT BY : DILLINGHAM, MATTHEW

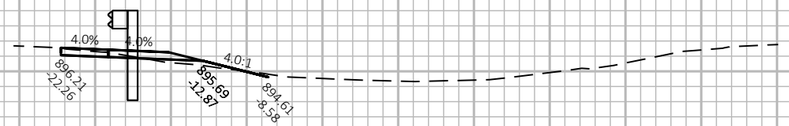
PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

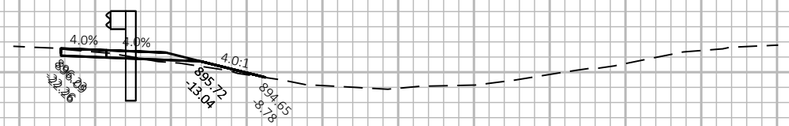
WISDOT/CADDS SHEET 49

POST 9

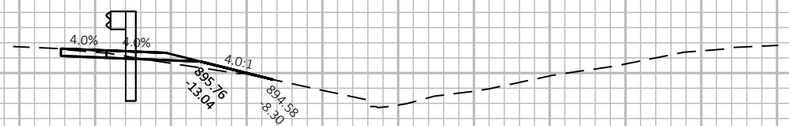
1648+09



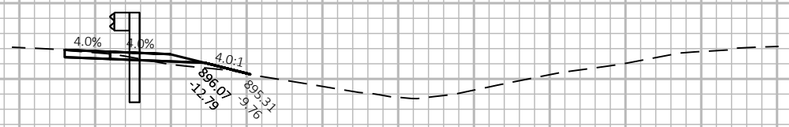
1648+06

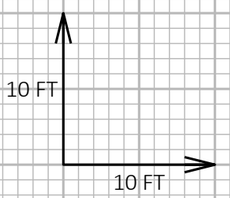


1648+00



1647+50





9

9

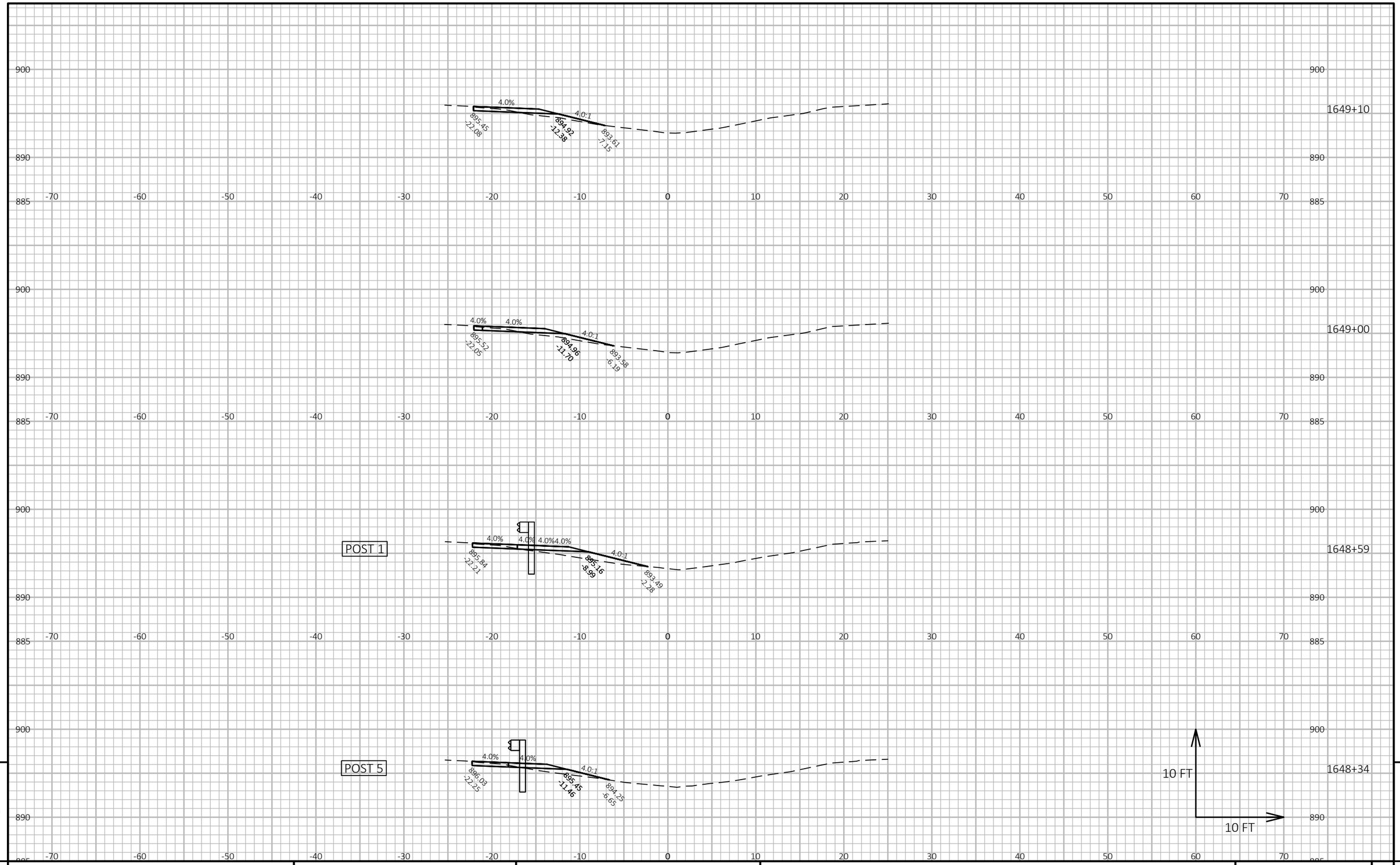
PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	CROSS SECTIONS: PENNSYLVANIA ST	SHEET 265	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 37

PLOT DATE : 12/13/2023 4:44 PM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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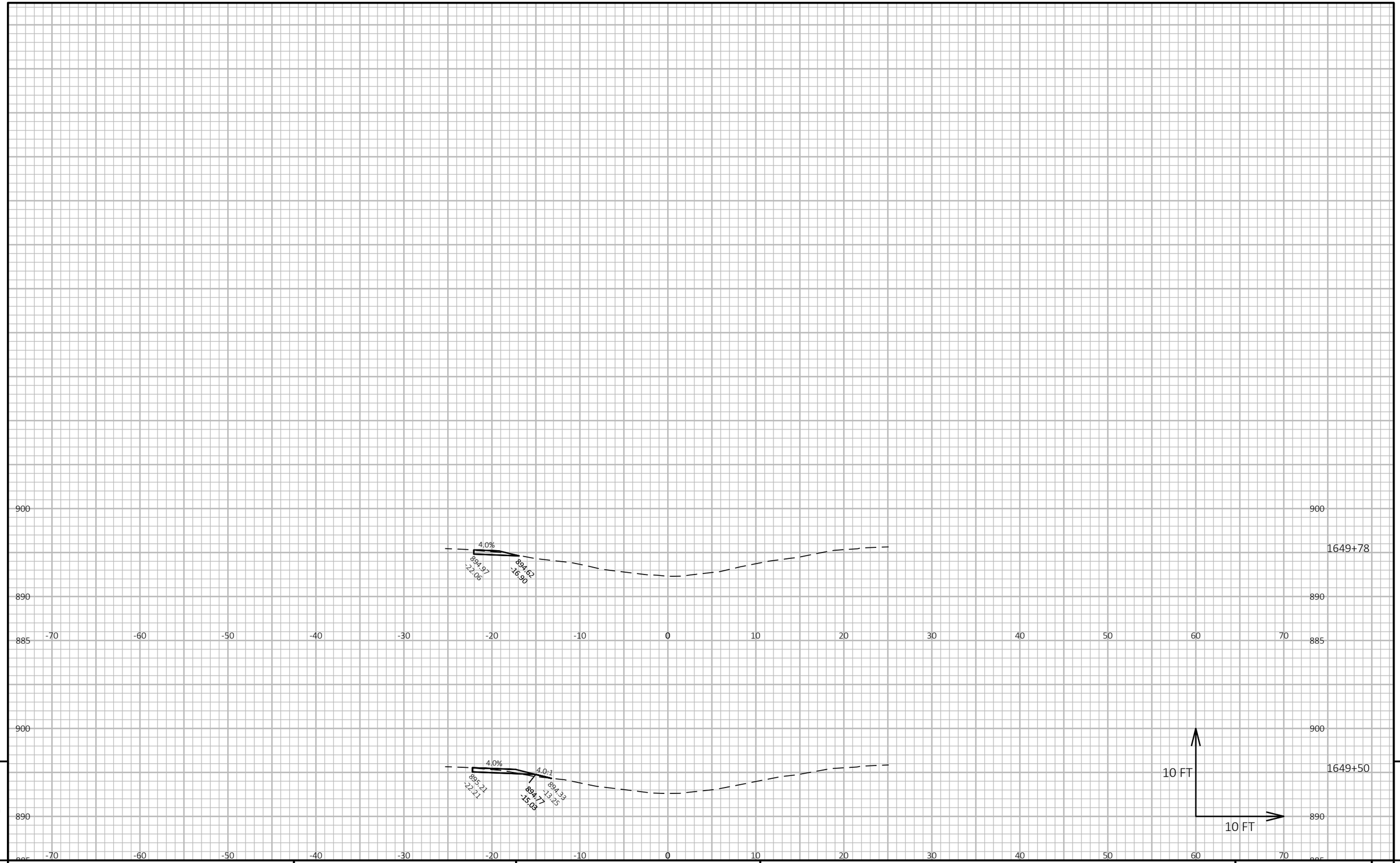
PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	CROSS SECTIONS: PENNSYLVANIA ST	SHEET 266	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 38

PLOT DATE : 12/13/2023 4:44 PM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3310-06-70	HWY: STH 16	COUNTY: WAUKESHA	CROSS SECTIONS: PENNSYLVANIA ST	SHEET 267	E

FILE NAME : N:\PDS\C3D\33100600\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 39

PLOT DATE : 12/13/2023 4:44 PM PLOT BY : DILLINGHAM, MATTHEW PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

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